Site Investigation Report

Dave's Gas Station (Former)
405 Washington Street
Merrillan, Wisconsin

July 6, 2016
by METCO
WDNR File Reference #: 03-27-001459
PECFA Claim #: 54754-9998-05

METCO

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This document was prepared by:

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July 6, 2016

WDNR BRRTS#: 03-27-001459
PECFA Claim #: 54754-9998-05-A

Matt Lechner
PO Box 86
Black River Falls, WI 54615

Dear Mr. Lechner,

Enclosed is our "Site Investigation Report" concerning the Dave's Gas Station (Former) site in Merrillan, 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 NR720 Non-Industrial Direct Contact RCL exceedances in boring G-12, and the elevated levels of contamination at depth in borings MW-1, G-1, G-2, G-6 and G-16, the WDNR will likely require that the soil be excavated to eliminate the direct contact risks, while also reducing the contaminant mass. However, the extent of the excavation will be limited due to the on-site building, current asphalt, sidewalk, and natural gas line. Post excavation activities would then consist of well replacement (MW-1), one year of post excavation groundwater monitoring, and further vapor assessment of the on-site building to move the site toward closure. Per state response, METCO will proceed with this project.

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

Sincerely,

Jason T. Powell
Staff Scientist

C: Thomas Kendzierski – WDNR

EXECUTIVE SUMMARY

A gas station and service garage operated on the subject property from approximately the 1940s/50s until 1987. After the gas station closed, the property continued to operate as a service garage until the early 1990s. Since then the building has been used for storage.

A regional occurrence of petroleum contamination was first discovered along the right of way of Washington Street (US Hwy 12) in 1984 and an ERP case was opened to investigate this contamination (Merrillan Gasoline Contamination – BRRTS 02-27-000051). Several gas stations in the area were suspected to be sources of this contamination. During this investigation, the WDNR installed soil borings and monitoring wells. The WDNR also reviewed tank inventory records for several gas stations in the area. After reviewing the tank inventory records for the Dave's Gas Station site in 1987, the WDNR suspected that the petroleum underground storage tanks (USTs) at the property were leaking.

On April 16, 1987, two gasoline USTs (3,000-gallon leaded and 2,000-gallon unleaded) were removed from the subject property under supervision of the Merrillan Fire Department and WDNR. In 1995, the WDNR reviewed their files and determined that a petroleum release had occurred at the Dave's Gas Station site and required that a site investigation be completed.

On May 5, 2011, TRC Solutions, Inc. completed three soil borings in Washington Street adjacent to the Dave's Gas Station property for the Wisconsin Department of Transportation (DOT) in preparation for an upcoming road construction project. One soil sample from each boring was submitted for laboratory analysis (GRO, PVOC, Naphthalene, and Lead). Petroleum contamination was detected in all three soil samples.

On August 19, 2013, TRC Solutions, Inc. oversaw excavation of 658 tons of petroleum contaminated soil from the right of way of Washington Street. The contaminated soil was disposed of at the Advanced Disposal Cranberry Creek Landfill in Wisconsin Rapids. Eleven soil samples were collected from the sidewalls and base of the excavation for laboratory analysis (PVOC, Naphthalene, and Lead). Seven additional samples were collected from the sidewalls and base of the excavation to be field screened with a photo-ionization detector (PID).

Several other LUST and ERP sites exist in the area of the subject property. The nearest is the Merrillan Gasoline Contamination site (02-27-000051) which investigated gasoline contamination along the right of way of Washington Street adjacent to the subject property. The investigation area begins in Washington Street approximately 125 feet to the north of the subject property and extends along the right of way of Washington Street approximately 1,050 feet to the south of this point. Contamination at the Merrillan Gasoline Contamination site was discovered in 1984, several former gas stations along Washington Street were

suspected sources of this contamination, and the case was closed in 1989. An open LUST site, Merrillan Former Standard Gas Station (03-27-560390), exists approximately 150 feet to the north of the subject property. Two closed LUST sites, Thompson Motors (03-27-000088) and Double T Quik Stop (03-27-001255) exist approximately 200 feet to the south and southwest of the subject property. Currently, it does not appear that these nearby sites are impacting or being impacted by the subject property.

In 2013, METCO was contracted to complete the site investigation, which consisted of a Geoprobe Project, Drilling Project, and two rounds of groundwater monitoring. Results clearly show that released petroleum products have impacted the local soil and groundwater. Results of the investigation are as follows:

– Local unconsolidated materials generally consist of fine to coarse grained sand from surface to depths ranging from 7 to 9 feet bgs. Clay/sandy clay was encountered in a few borings at depths ranging from 6 to 8 feet bgs. Fill material consisting of sand and gravel was encountered from surface to 3 feet bgs in borings G-7, G-8, G-9, and G-14, and from surface to 6 feet bgs in boring G-13.

– Sandstone bedrock was encountered at depths ranging from 6 to 9 feet and extends to at least 13 feet bgs.

– According to data collected from the monitoring wells, the depth to groundwater ranges from 4.25 to 5.45 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 to the south.

– Unsaturated soil contamination which exceeds the NR720 Groundwater RCL values exists in the area of the former UST's and dispenser island. This irregular shaped area measures up to 56 feet long, up to 44 feet wide, and up to 5.5 feet thick. A second area of unsaturated soil contamination, which exceeds the NR720 Groundwater RCL values, exists in the area of and encompassing soil boring B-15. This consists of a circular shaped area that measures up to 10 feet in diameter, and up to 4 feet thick. Unsaturated soil contamination which exceeds the NR720 Non-Industrial Direct Contact RCL values also exists in the area of the former dispenser island. This oval shaped area measures approximately 14 feet long, up to 9 feet wide, and up to 4 feet thick.

– A dissolved phase contaminant plume exceeding the NR140 ES and PAL has formed at the watertable in the area of the removed UST's and dispenser island and has migrated toward the south. This plume is approximately 99 feet long and 78 feet wide.

– Based on the most recent groundwater analytical results, two of the monitoring wells (MW-1 and MW-2) show NR140 ES and/or PAL exceedances. Free product was encountered in MW-1 (7 inches) during the February 2016 sampling event, but has not been confirmed by a second sampling event. None of the other monitoring wells show any NR140 PAL exceedances or detects for any contaminants of concern.

– Based on the receptor survey, there does appear to be the potential of contaminant migration along sewer and water laterals and vapor intrusion to the on-site building.

– The receptor survey did not identify any potential risks to any potable wells or surface waters.

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

Due to the NR720 Non-Industrial Direct Contact RCL exceedances in boring G-12, and the elevated levels of contamination at depth in borings MW-1, G-1, G-2, G-6 and G-16, the WDNR will likely require that the soil be excavated to eliminate the direct contact risks, while also reducing the contaminant mass. However, the extent of the excavation will be limited due to the on-site building, current asphalt, sidewalk, and natural gas line. Post excavation activities would then consist of well replacement (MW-1), one year of post excavation groundwater monitoring, and further vapor assessment of the on-site building to move the site toward closure. Per state response, METCO will proceed with this project.

LIST OF ACRONYMS

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

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1.0 INTRODUCTION AND BACKGROUND

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

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

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

1.1 Responsible Party Information

Matt Lechner
PO Box 86
Black River Falls, WI 54615
(608) 633-6569

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

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

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

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

1.3 Site Location

Site address:
405 Washington St.
Merrillan, WI 54754

Latitude and Longitude:
44° 27' 14" N and 90° 50' 36" W

WTM Coordinates:
452901, 442648

Township/Range:
SE ¼, SE ¼, Section 22, Township 23 North, Range 4 West, Jackson County

1.4 Site History

A gas station and service garage operated on the subject property from approximately the 1940s/50s until 1987. After the gas station closed, the property continued to operate as a service garage until the early 1990s. Since then the building has been used for storage.

A regional occurrence of petroleum contamination was first discovered along the right of way of Washington Street (US Hwy 12) in 1984 and an ERP case was opened to investigate this contamination (Merrillan Gasoline Contamination – BRRTS 02-27-000051). Several gas stations in the area were suspected to be sources of this contamination. During this investigation, the WDNR installed soil borings and monitoring wells. The WDNR also reviewed tank inventory records for several gas stations in the area. After reviewing the tank inventory records for the Dave's Gas Station site in 1987, the WDNR suspected that the petroleum underground storage tanks (USTs) at the property were leaking.

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Station site and required that a site investigation be completed.

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2.0 GEOLOGY AND RECEPTORS

2.1 Regional and Local Geology and Hydrogeology

Topography and Regional Setting

According to the USGS Hydrologic Atlas, Merrillan is located in the northern portion of the Trempealeau-Black River Basin. This area is characterized by flat to rolling terrain formed by thin ground moraine on sandstone or crystalline bedrock. This area is mostly flat with widespread swamps.

The elevation of the site is approximately 940 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.

Local unconsolidated materials generally consist of tan to gray to brown to orange fine to coarse grained sand from surface to depths ranging from 7 to 9 feet bgs. Gray clay/sandy clay was encountered in a few borings at depths ranging from 6 to 8 feet bgs. Fill material consisting of tan to brown sand and gravel was encountered from surface to 3 feet bgs in borings G-7, G-8, G-9, and G-14, and from surface to 6 feet bgs in boring G-13.

Tan to gray to white sandstone bedrock was encountered at depths ranging from 6 to 9 feet and extends to at least 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 4.25 to 5.45 feet bgs depending on well location and time of year.

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

We are not currently aware of any existing aquitards or perched water in this area.

2.2 Receptors

Buildings, Basements, Sumps, Utility Corridors

The extent of petroleum contamination in groundwater exceeding the NR140 ES and/or PAL appears to come into contact with a water main, natural gas lines, and a telephone line. The extent of petroleum contamination in unsaturated soil exceeding the NR720 Groundwater RCL's and/or Non-Industrial Direct contact also comes into contact with natural gas lines.

A water main exists adjacent to the subject property to the west along the east side of Washington Street (US Highway 12/State Highway 27). The water main exists at approximately 6-8 feet below ground surface. The water main was installed in 1984 and was backfilled with gravel. Due to the shallow depth of groundwater in this area (approximately 5 feet bgs) and because the water main only comes into contact with the PAL, it does not appear to be acting as a potential contaminant migration pathway.

Natural gas and telephone lines typically exist within 30 inches of ground surface and backfilled with native soil. Therefore, these do not appear to be potential contaminant migration pathways. Several sewer and water lateral lines to the subject property and other nearby buildings also exist in the area of soil and groundwater contamination. These exist at approximately 6-8 feet bgs and are backfilled with gravel. Because the sewer and water laterals are backfilled with gravel, there is some risk these are acting as potential contaminant migration pathways.

The extent of the soil and groundwater contamination appears to extend underneath the on-site building (Former Dave's Gas Station) at depths ranging from 3.5-6 feet bgs. Due to the shallow groundwater (approximately 5 feet bgs) and soil contamination in this area, the vapor intrusion for the Former Dave's Gas Station building may need further evaluation.

Municipal and Private Water Supply Wells

The subject property and surrounding properties are all served by the Village of Merrillan municipal water system. The Village of Merrillan has two municipal wells, both located approximately 2,500 feet to the east-southeast of the subject property. The only known private wells that are in use in the Village of Merrillan are on Lower Lake Drive, which is over 1 mile from the subject property.

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

Surface Waters

The nearest surface water is Oakwood Lake, which is a small reservoir formed by the damming of Halls Creek. Oakwood Lake exists approximately 1,300 feet to the south of the subject property. It does not appear that the petroleum contamination has impacted 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 March 31, 2014, METCO prepared a LUST Investigation Field Procedures Workplan.
3) On October 13, 2014, METCO completed sixteen Geoprobe borings. Thirty-three soil samples and sixteen groundwater samples were collected for field and/or laboratory analysis.
4) On August 28, 2015, METCO completed five soil borings and installed five monitoring wells. Fifteen soil and rock cutting samples were collected for field and/or laboratory analysis. Upon completion, the monitoring wells were properly developed.
5) On October 30, 2015, DKS Transport Services, LLC picked up and properly disposed of 7 drums of investigative waste.
6) On November 4, 2015, METCO collected groundwater samples from the five monitoring wells for field and laboratory analysis (Round 1). METCO also conducted slug tests on three of the monitoring wells.
7) On February 9, 2016, METCO collected groundwater samples from the five monitoring wells for field and laboratory analysis (Round 2).

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 5, 2011, during the WDOT Phase II, four Geoprobe borings were completed with four soil samples collected for field and laboratory analysis (PID, GRO, PVOC, Naphthalene, and Lead).

On August 19, 2013, during the WDNR Over-excavation project, eleven soil samples were collected from within the excavation for field and laboratory analysis (PID, PVOC, Naphthalene, and Lead).

On October 13, 2014, during the Geoprobe project, sixteen Geoprobe borings were completed with thirty-three soil samples collected for field and laboratory analysis (PID, VOC, PVOC, Naphthalene, and Lead).

On August 28, 2015, during the Drilling project, five soil borings were completed with fifteen soil samples collected for field and laboratory analysis (PID, GRO, PVOC, Naphthalene, TCLP-Lead, and Lead).

Soil analytical results are summarized in the Soil Analytical Tables with exceedances of the NR720 Groundwater RCL's and/or Direct Contact RCL's noted.

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

Groundwater Sampling Data

On October 13, 2014, during the Geoprobe project, sixteen groundwater samples were collected from the borings for PVOC and Naphthalene analysis.

On August 28, 2015, during the Drilling project, five monitoring wells were installed and properly developed.

On November 4, 2015, Round 1 groundwater samples were collected from the five monitoring wells and analyzed for VOC, Dissolved Lead, and natural attenuation parameters (Dissolved Iron, Dissolved Manganese, Sulfates, and Nitrate/Nitrite). Field measurements for water level, temperature, pH, ORP, Dissolved Oxygen and Specific Conductance were also collected from the five monitoring wells.

On February 9, 2016, Round 2 groundwater samples were collected from the five monitoring wells and analyzed for PVOC, Naphthalene, and Dissolved

Lead. Field measurements for water level, temperature, pH, ORP, Dissolved Oxygen and Specific Conductance were also collected from the five monitoring wells.

Geoprobe boring and monitoring well groundwater analytical results are summarized in the Groundwater Analytical Results Summary 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.

Laboratory Certification

Synergy Environmental Lab
Wisconsin Lab Certification #445037560

3.3 Permeability and Hydraulic Conductivities

On November 4, 2015, 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) = 3.41E-04 cm/sec
Transmissivity = 8.36E-02 cm^2/sec
Flow Velocity (V=KI/n) = 5.25094 m/yr

Monitoring Well MW-2
Hydraulic Conductivity (K) = 2.98E-04 cm/sec
Transmissivity = 8.03E-02 cm^2/sec
Flow Velocity (V=KI/n) = 4.58515 m/yr

Monitoring Well MW-4
Hydraulic Conductivity (K) = 1.22E-04 cm/sec
Transmissivity = 3.45E-02 cm^2/sec
Flow Velocity (V=KI/n) = 1.87533 m/yr

Since the thickness of the unconfined aquifer was unknown, the bottoms of monitoring wells MW-1, MW-2 and MW-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

Local unconsolidated materials generally consist of fine to coarse grained sand from surface to depths ranging from 7 to 9 feet bgs. Clay/sandy clay was encountered in a few borings at depths ranging from 6 to 8 feet bgs. Fill material consisting of sand and gravel was encountered from surface to 3 feet bgs in borings G-7, G-8, G-9, and G-14, and from surface to 6 feet bgs in boring G-13.

Sandstone bedrock was encountered at depths ranging from 6 to 9 feet and extends to at least 13 feet bgs.

According to data collected from the monitoring wells, the depth to groundwater ranges from 4.25 to 5.45 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 to the south.

Unsaturated soil contamination which exceeds the NR720 Groundwater RCL values exists in the area of the former UST's and dispenser island. This irregular shaped area measures up to 56 feet long, up to 44 feet wide, and up to 5.5 feet thick. A second area of unsaturated soil contamination, which exceeds the NR720 Groundwater RCL values, exists in the area of and encompassing soil boring B-15. This consists of a circular shaped area that measures up to 10 feet in diameter, and up to 4 feet thick. Unsaturated soil contamination which exceeds the NR720 Non-Industrial Direct Contact RCL values also exists in the area of the former dispenser island. This oval shaped area measures approximately 14 feet long, up to 9 feet wide, and up to 4 feet thick.

A dissolved phase contaminant plume exceeding the NR140 ES and PAL has formed at the watertable in the area of the removed UST's and dispenser island and has migrated toward the south. This plume is approximately 99 feet long and 78 feet wide.

Based on the most recent groundwater analytical results, two of the monitoring wells (MW-1 and MW-2) show NR140 ES and/or PAL exceedances. Free product was encountered in MW-1 (7 inches) during the February 2016 sampling event, but has not been confirmed by a second sampling event. None of the other monitoring wells show any NR140 PAL exceedances or detects for any contaminants of concern.

Based on the receptor survey, there does appear to be the potential of contaminant migration along sewer and water laterals and vapor intrusion to the on-site building.

The receptor survey did not identify any potential risks to any potable wells or

surface waters.

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

The Detailed Site Map, Soil Contamination Map, Groundwater Flow Direction Maps, 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 Dave's Gas Station (Former) site is currently a "high risk" site.

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 NR720 Non-Industrial Direct Contact RCL exceedances in boring G-12, and the elevated levels of contamination at depth in borings MW-1, G-1, G-2, G-6 and G-16, the WDNR will likely require that the soil be excavated to eliminate the direct contact risks, while also reducing the contaminant mass. However, the extent of the excavation will be limited due to the on-site building, current asphalt, sidewalk, and natural gas line. Post excavation activities would then consist of well replacement (MW-1), one year of post excavation groundwater monitoring, and further vapor assessment of the on-site building to move the site toward closure. If the state concurs, please contact METCO to discuss the workscope.

5.0 REFERENCES

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

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

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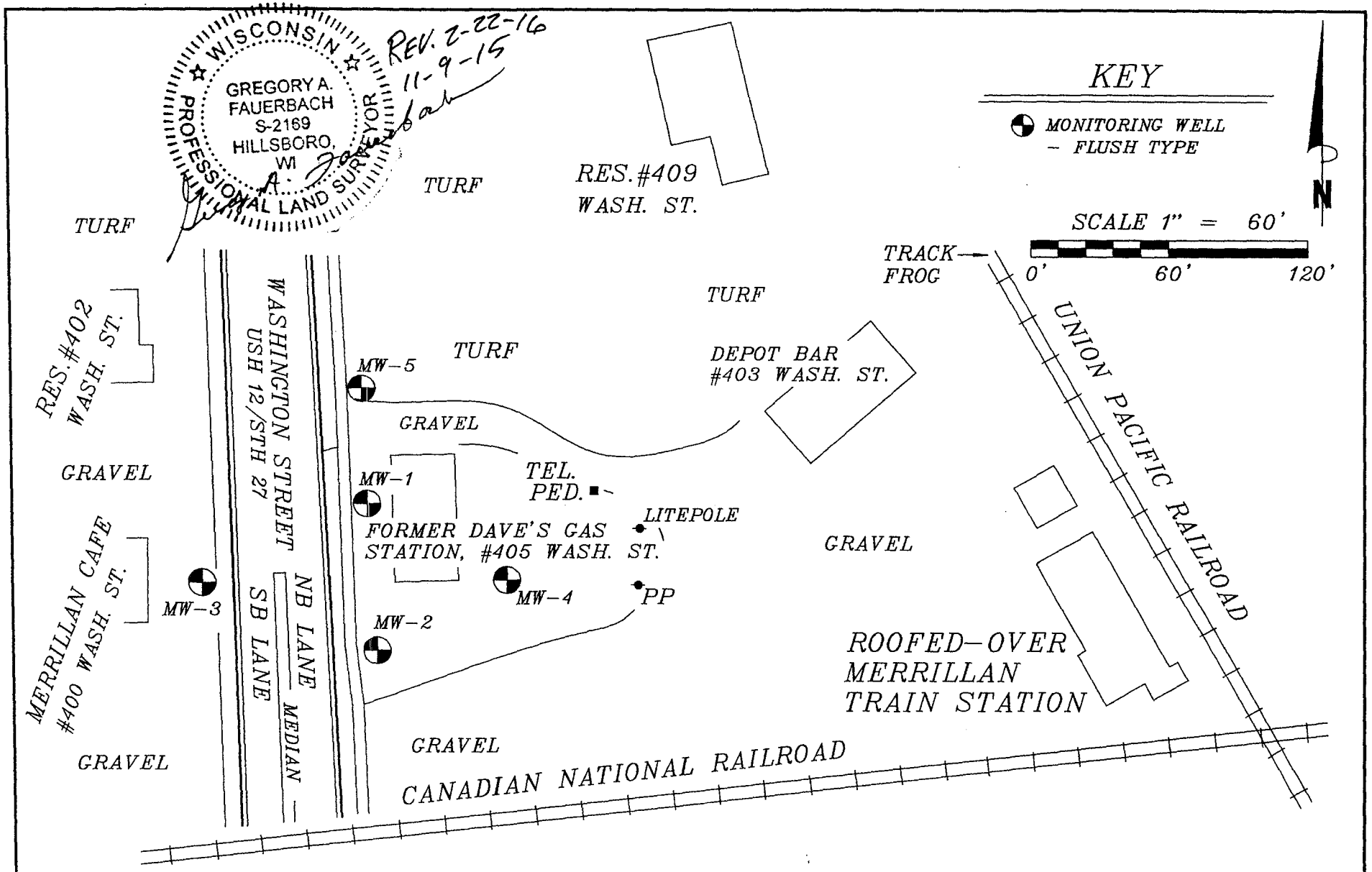
Walton, W.C., 1989, Groundwater Pumping Tests, Chelsea, Michigan.

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

Other information and data was collected from Matt Lechner, Village of Merrillan, Diggers Hotline, Geiss Soil and Samples, LLC., 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
DAVE'S GAS STATION FORMER – MERRILLAN, WI
SEAMLESS USGS TOPOGRAPHIC MAPS ON CD-ROM



DRAWN BY:	G.FAUERBACH	REVISIONS 2-22-16 MH's TO MW's 2-22-16 MW-1 MISLABELED	PROJECT:	SHEET NAME	PAGE
DATE:	11-4-15 FIELD		DAVE'S GAS STATION 405 WASHINGTON STREET MERRILLAN, WI 54754	LOCATION MAP	1 OF 1
DWG. NO.:	55715	FAUERBACH SURVEYING & ENG. PO BOX 140, HILLSBORO, WI 54634 PH/FAX 608-489-3363			
BRRTS #					

WELL	JACKSON CO. (WISDOT) COORD. SYSTEM NAD83(2011) NORTH	EAST	TOP OF WELL ELEVATION (NAVD88)	TOP OF PVC CASING ELEVATION (NAVD88)
MW-1	240513.36	385698.24	937.50'	937.03'
MW-2	240448.87	385701.95	937.12'	936.63'
MW-3	240478.94	385626.67	937.01'	936.72'
MW-4	240479.70	385758.58	936.64'	936.09'
MW-5	240563.84	385696.36	938.19'	937.76'

THE COORDINATES ABOVE ARE NOT THE OFFICIAL JACKSON CO. COORDINATE SYSTEM. (GRS80 BASED)
THE COORDINATES ABOVE ARE BASED ON THE WISDOT MODEL SYSTEM FOR CONSISTENCY. (WGS84 BASED)

WISCONSIN
GREGORY A. FAUERBACH S-2169 HILLSBORO, WI
PROFESSIONAL LAND SURVEYOR
11-9-15

DRAWN BY: C.FAUERBACH DATE: 11-4-15 FIELD DWG. NO.: 55715 BRRTS #	REVISIONS FAUERBACH SURVEYING & ENG. PO BOX 140, HILLSBORO, WI 54634 PH/FAX 608-489-3363	PROJECT: DAVE'S GAS STATION 405 WASHINGTON ST. MERRILLAN, WI 54754	SHEET NAME DATA SHEET	PAGE 1 OF 1

DETAILED SITE MAP

DAVE'S GAS STATION (FORMER)

MERRILLAN, WISCONSIN

METCO
709 Gillette Street, Suite 3
La Crosse, WI 54603
Tel: (608) 781-8870
Fax: (608) 781-8893
Excellence through experience

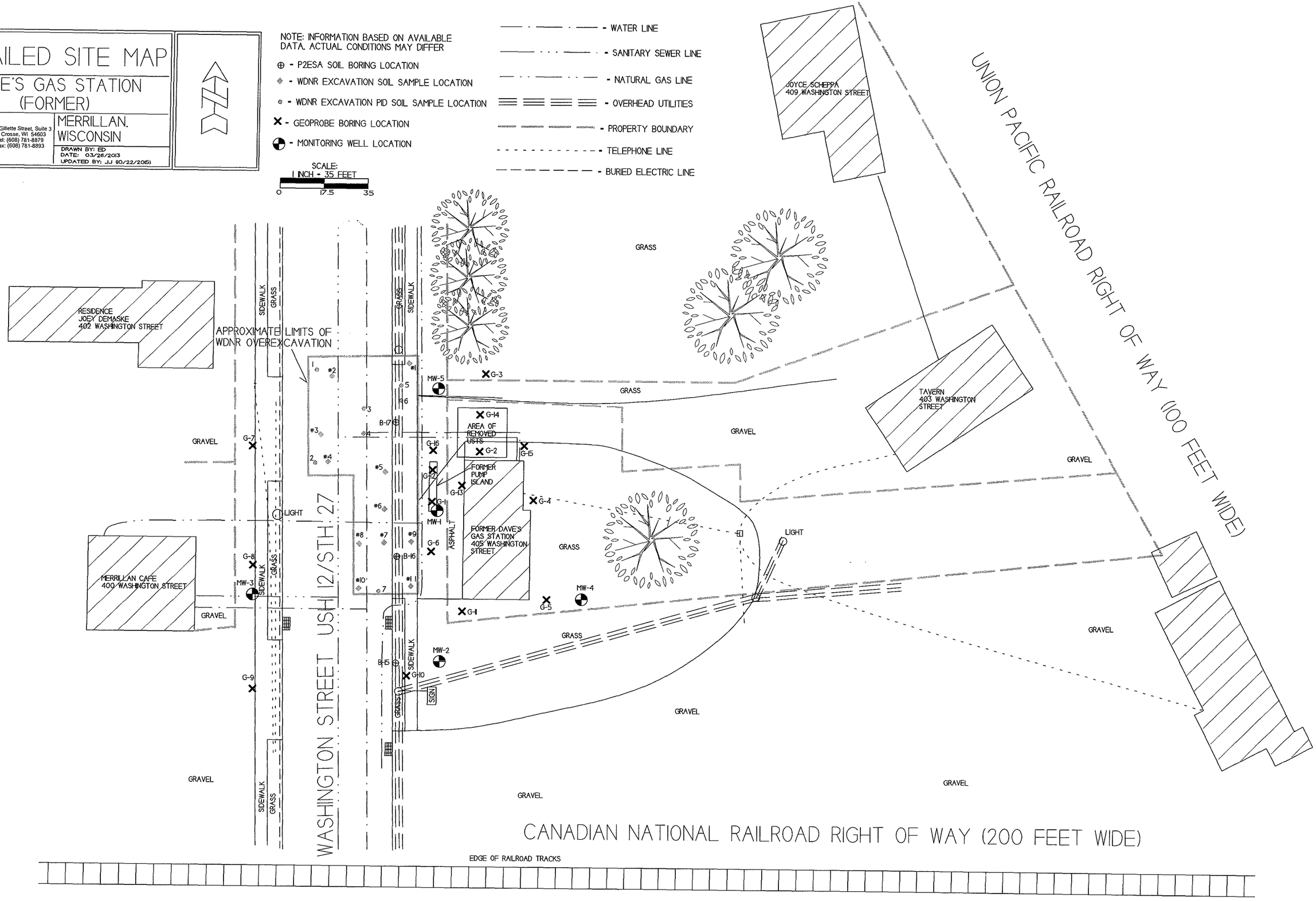
DRAWN BY: ED
DATE: 03/26/2013
UPDATED BY: JJ (10/22/2015)

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

- ⊕ - P2ESA SOIL BORING LOCATION
- ◈ - WDNR EXCAVATION SOIL SAMPLE LOCATION
- ⊙ - WDNR EXCAVATION PID SOIL SAMPLE LOCATION
- ✕ - GEOPROBE BORING LOCATION
- ◍ - MONITORING WELL LOCATION

- - WATER LINE
- - SANITARY SEWER LINE
- - NATURAL GAS LINE
- - OVERHEAD UTILITIES
- - PROPERTY BOUNDARY
- - TELEPHONE LINE
- - BURIED ELECTRIC LINE

SCALE:
1 INCH = 35 FEET
0 17.5 35



SOIL CONTAMINATION

DAVE'S GAS STATION (FORMER)

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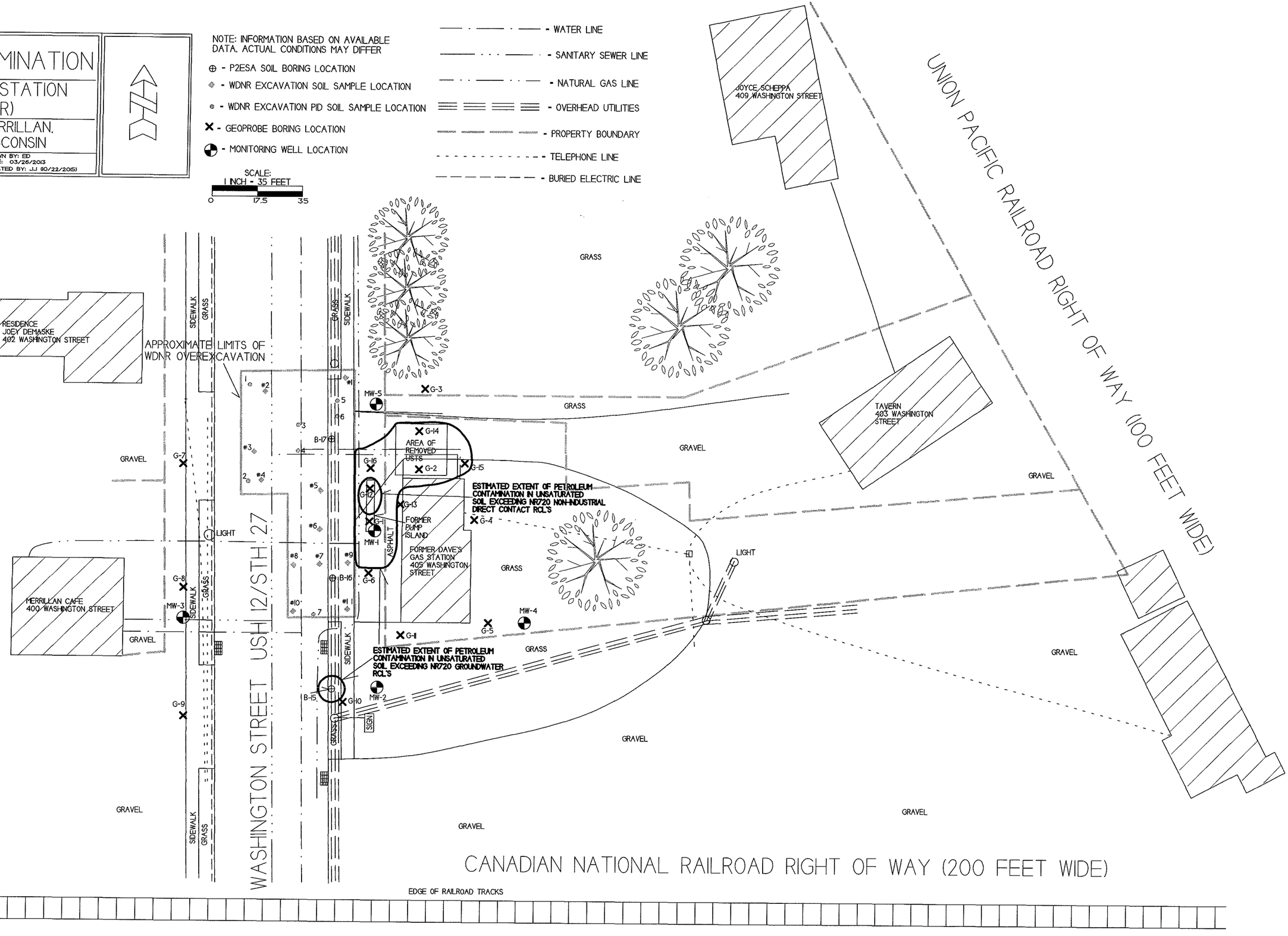

B.3.c GROUNDWATER FLOW DIRECTION (11/4/15)

DAVE'S GAS STATION (FORMER)

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MERRILLAN, WISCONSIN

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0 17.5 35

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JOYCE SCHEPPA
409 WASHINGTON STREET

UNION PACIFIC RAILROAD RIGHT OF WAY (100 FEET WIDE)

RESIDENCE
JOEY DEMASKE
402 WASHINGTON STREET

APPROXIMATE LIMITS OF WDNR OVEREXCAVATION

TAVERN
403 WASHINGTON STREET

MERRILLAN CAFE
400 WASHINGTON STREET

FORMER DAVE'S GAS STATION
405 WASHINGTON STREET

AREA OF REMOVED USTS

FORMER PUMP ISLAND

LIGHT

SIGN

MW-1 932.05' MSL
MW-2 932.47' MSL
MW-3 932.17' MSL
MW-4 932.37' MSL
MW-5 932.92' MSL

932.90' MSL
932.70' MSL
932.50' MSL
932.30' MSL

B-15 B-16 B-17

G-1 G-2 G-3 G-4 G-5 G-6 G-7 G-8 G-9 G-10 G-11 G-12 G-13 G-14 G-15 G-16

#1 #2 #3 #4 #5 #6 #7 #8 #9 #10 #11

GRASS
GRAVEL
ASPHALT
SIDEWALK

WASHINGTON STREET USH 12/STH 27

CANADIAN NATIONAL RAILROAD RIGHT OF WAY (200 FEET WIDE)

EDGE OF RAILROAD TRACKS

B.3.c GROUNDWATER FLOW DIRECTION (2/9/16)

DAVE'S GAS STATION (FORMER)

METCO
709 Gillette Street, Suite 3
La Crosse, WI 54603
Tel: (608) 781-8879
Fax: (608) 781-8893
Excellence through experience™

MERRILLAN, WISCONSIN

DRAWN BY: ED
DATE: 03/26/2013
UPDATED BY: JJ 00/22/2015)

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

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SCALE:
1 INCH = 35 FEET
0 17.5 35

RESIDENCE
JOEY DEMASKE
402 WASHINGTON STREET

APPROXIMATE LIMITS OF WDNR OVEREXCAVATION

JOYCE SCHEPPA
409 WASHINGTON STREET

UNION PACIFIC RAILROAD RIGHT OF WAY (100 FEET WIDE)

TAVERN
403 WASHINGTON STREET

MERRILLAN CAFE
400 WASHINGTON STREET

FORMER DAVE'S GAS STATION
403 WASHINGTON STREET

FORMER PUMP ISLAND

AREA OF REMOVED USTS

ASPHALT

SIGN

LIGHT

SIDEWALK

GRASS

GRAVEL

MW-1
MW-2 932.48' MSL
MW-3 932.21' MSL
MW-4 932.39' MSL
MW-5 933.29' MSL

933.20' MSL
933.00' MSL
932.80' MSL
932.60' MSL
932.40' MSL
932.40' MSL

WASHINGTON STREET USH 12/STH 27

CANADIAN NATIONAL RAILROAD RIGHT OF WAY (200 FEET WIDE)

EDGE OF RAILROAD TRACKS

GROUNDWATER ISOCONCENTRATION (2/9/16)

DAVE'S GAS STATION (FORMER)

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Excellence through experience®

MERRILLAN, WISCONSIN

DRAWN BY: ED
DATE: 03/26/2013
UPDATED BY: JJ (10/22/2015)

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

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SCALE:
1 INCH = 35 FEET
0 17.5 35

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409 WASHINGTON STREET

TAVERN
403 WASHINGTON STREET

MERRILLAN CAFE
400 WASHINGTON STREET

FORMER DAVE'S GAS STATION
405 WASHINGTON STREET

APPROXIMATE LIMITS OF WDNR OVEREXCAVATION

FORMER PUMP ISLAND

AREA OF REMOVED USTS

ESTIMATED EXTENT OF PETROLEUM CONTAMINATION IN GROUNDWATER EXCEEDING THE NR140 ES AND/OR PAL

ES

PAL

MW-1 MW-2 MW-3 MW-4 MW-5

G-1 G-2 G-3 G-4 G-5 G-6 G-7 G-8 G-9 G-10 G-11 G-12 G-13 G-14 G-15 G-16

B-15 B-16 B-17

#1 #2 #3 #4 #5 #6 #7 #8 #9 #10 #11

WASHINGTON STREET USH 12/STH 27

UNION PACIFIC RAILROAD RIGHT OF WAY (100 FEET WIDE)

CANADIAN NATIONAL RAILROAD RIGHT OF WAY (200 FEET WIDE)

EDGE OF RAILROAD TRACKS

SIDEWALK GRASS ASPHALT GRAVEL LIGHT SIGN

GEOLOGIC CROSS SECTION FIGURE

DAVE'S GAS STATION (FORMER)

MERRILLAN, WISCONSIN

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Tel: (608) 781-8879
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DRAWN BY: ED
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NOTE: INFORMATION BASED ON AVAILABLE DATA. ACTUAL CONDITIONS MAY DIFFER

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◓ - MONITORING WELL LOCATION

SCALE:
1 INCH = 35 FEET
0 17.5 35

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- OVERHEAD UTILITIES
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- TELEPHONE LINE
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RESIDENCE
JOEY DEMASKE
402 WASHINGTON STREET

JOYCE SCHEPPA
409 WASHINGTON STREET

MERRILLAN CAFE
400 WASHINGTON STREET

TAVERN
403 WASHINGTON STREET

FORMER DAVE'S GAS STATION
405 WASHINGTON STREET

APPROXIMATE LIMITS OF WDNR OVEREXCAVATION

ESTIMATED EXTENT OF PETROLEUM CONTAMINATION IN UNSATURATED SOIL EXCEEDING NR720 GROUNDWATER RCL'S

ESTIMATED EXTENT OF PETROLEUM CONTAMINATION IN UNSATURATED SOIL EXCEEDING NR720 NON-INDUSTRIAL DIRECT CONTACT RCL'S

ESTIMATED EXTENT OF PETROLEUM CONTAMINATION IN GROUNDWATER EXCEEDING THE NR140 ES AND/OR PAL

ESTIMATED EXTENT OF PETROLEUM CONTAMINATION IN UNSATURATED SOIL EXCEEDING NR720 GROUNDWATER RCL'S

AREA OF REMOVED USTS

FORMER PUMP ISLAND

ES

PAL

A

A'

MW-1 MW-2 MW-3 MW-4 MW-5

G-1 G-2 G-3 G-4 G-5 G-6 G-7 G-8 G-9 G-10 G-11 G-12 G-13 G-14 G-15 G-16

B-15 B-16 B-17

#1 #2 #3 #4 #5 #6 #7 #8 #9 #10 #11

GRASS GRAVEL ASPHALT SIDEWALK LIGHT SIGN

WASHINGTON STREET USH 12/STH 27

UNION PACIFIC RAILROAD RIGHT OF WAY (100 FEET WIDE)

CANADIAN NATIONAL RAILROAD RIGHT OF WAY (200 FEET WIDE)

EDGE OF RAILROAD TRACKS

GEOLOGIC CROSS SECTION FIGURE (CLOSE UP)

DAVE'S GAS STATION (FORMER)

METCO
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La Crosse, WI 54603
Tel: (608) 781-8879
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Excellence through experience™

MERRILLAN, WISCONSIN

DRAWN BY: ED
DATE: 03/26/2013
UPDATED BY: JJ (10/22/2015)

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

⊕ = P2ESA SOIL BORING LOCATION

◆ = WDNR EXCAVATION SOIL SAMPLE LOCATION

● = WDNR EXCAVATION PID SOIL SAMPLE LOCATION

× = GEOPROBE BORING LOCATION

◓ = MONITORING WELL LOCATION

= WATER LINE

= SANITARY SEWER LINE

= NATURAL GAS LINE

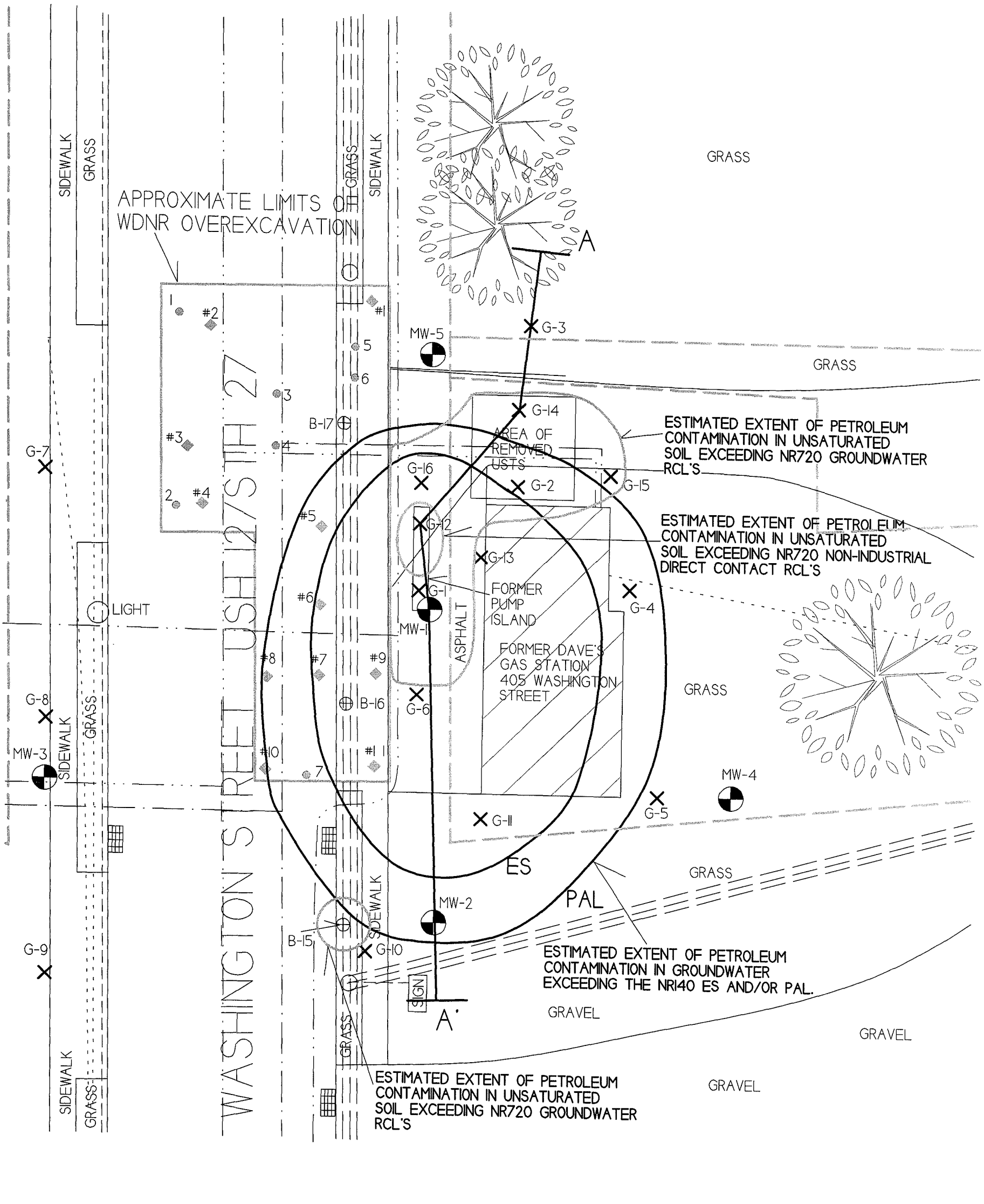
= OVERHEAD UTILITIES

= PROPERTY BOUNDARY

= TELEPHONE LINE

= BURIED ELECTRIC LINE

SCALE:
1 INCH = 20 FEET
0 20



B.3.a.3 GEOLOGIC CROSS SECTION

DAVE'S GAS STATION (FORMER)

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

MERRILLAN, WISCONSIN

DRAWN BY: JJ 5/10/16

- ⊕ - MONITORING WELL LOCATION
- ● - GEOPROBE BORING LOCATION
- X - SOIL SAMPLING LOCATION
- ▼ - WATERTABLE BASED ON ALL TIME LOW MEASUREMENTS

HORIZONTAL SCALE:
1 INCH = 20 FEET
0 20

VERTICAL SCALE:
1 INCH = 4 FEET
4 0

INFORMATION BASED ON AVAILABLE DATA. ACTUAL CONDITIONS MAY DIFFER

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

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

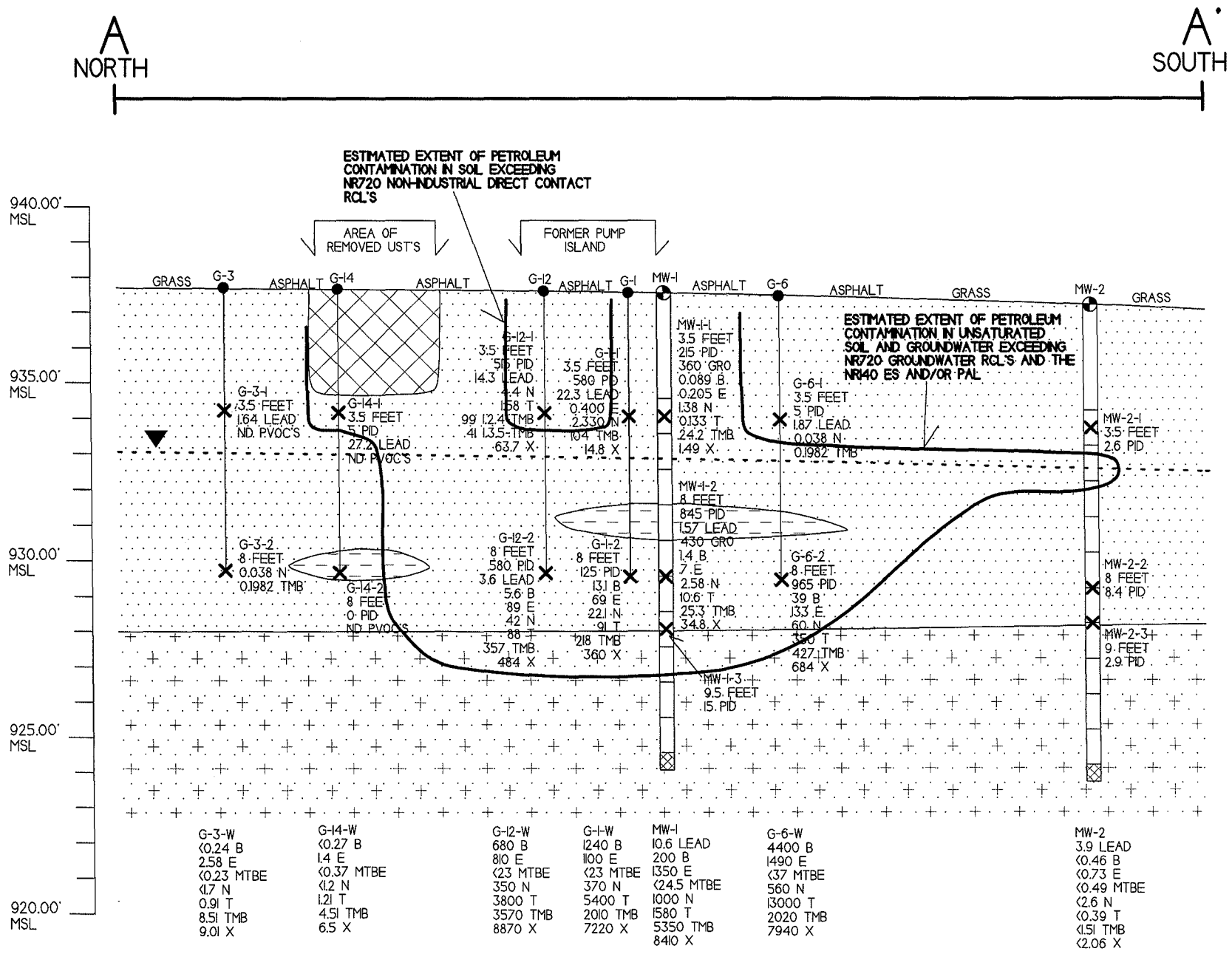
GROUNDWATER FLOW IS TOWARD THE SOUTH.

ND - NO DETECT
PID - PHOTO IONIZATION DETECTOR
GRO - GASOLINE RANGE ORGANICS
PVOC - PETROLEUM VOLATILE ORGANIC COMPOUNDS
B - BENZENE
E - ETHYLBENZENE
MTBE - METHYL-TERT-BUTYL-ETHER
N - NAPHTHALENE
T - TOLUENE
TMB - TRIMETHYLBENZENE
X - XYLENE

NOTE: SOIL AND GROUNDWATER SAMPLE DATA IS BASED ON LABORATORY RESULTS FROM SAMPLES COLLECTED DURING THE FOLLOWING EVENTS:
- GEOPROBE PROJECT (10/13/14)
- DRILLING PROJECT (8/28/15)
- ROUND 2 GROUNDWATER SAMPLING (2/9/16)

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

- ORANGE TO TAN TO GRAY FINE TO COARSE GRAINED SAND
- GRAY CLAY
- TAN TO WHITE TO GRAY FINE TO COARSE GRAINED SANDSTONE
- FILL MATERIAL



7.0 DATA TABLES, GRAPHS, AND STATISTICAL ANALYSIS

A.2. Soil Analytical Results Table
Dave's Gas Station BRRTS# 03-27-001459

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		
																	Exeedance Count	Hazard Index	Cumulative Cancer Risk
B-15	2-4	U	05/05/11	8	18.50	NS	10.5	**0.06**	0.18	<0.025	<0.025	0.03	0.31	<0.025	0.19	NS	0	5.05E-02	6.40E-08
B-16	7-8	S	05/05/11	560	9.00	NS	708	**1.63**	**20.8**	<0.312	**134**	**57.4**	**47.3**	**15.1**	**111.2**	NS	0		
B-17	2-4	U	05/05/11	568	**29.40**	NS	5760	**8.43**	**139**	<5.0	**67.1**	**287**	**424***	**581***	**806***	NS	6	6.96E+00	3.70E-05
B-22	2-4	U	05/05/11	7	1.20	NS	<2.6	<0.025	<0.025	<0.025	<0.025	<0.025	0.05	<0.025	0.06x	NS	0	3.56E-03	
Sample #1	8	S	08/19/13	770	3.60	NS	NS	<0.125	6.07	<0.125	**3.22**	**1.28**	**23.6**	**8.06**	**27.55**	NS			
Sample #2	8	S	08/19/13	17	14.60	NS	NS	<0.025	<0.025	<0.025	0.07	<0.025	0.33	0.19	0.28	NS			
Sample #3	8	S	08/19/13	115	12.00	NS	NS	<0.025	0.13	<0.025	0.33	<0.025	**1.9**	**1.01**	0.25	NS			
Sample #4	8	S	08/19/13	51	4.20	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	0.0565 "J"	0.0387 "J"	<0.0789 "J"	NS			
Sample #5	8	S	08/19/13	1267	23.80	NS	NS	**1.820 "J"**	**66.7**	<1.250	**40.1**	**95.4**	**233***	**79.8**	**451***	NS			
Sample #6	8	S	08/19/13	1538	1.80	NS	NS	**0.56**	0.27	<0.025	0.07	**2.05**	0.27	0.081.	1.51	NS			
Sample #7	8	S	08/19/13	528	1.60	NS	NS	**1.08**	**1.69**	<0.050	**1.24**	**5.12**	**6.05**	**2.38**	**9.19**	NS			
Sample #8	5	S	08/19/13	2175	11.90	NS	NS	**1.230 "J"**	**47.6**	<0.625	**20.9**	**57.2**	**114**	**35.7**	**267.6***	NS			
Sample #9	5	S	08/19/13	1483	12.70	NS	NS	<1.000	**9.51**	<1.000	**11.6**	**7.42**	**264***	**96.9**	**67.7**	NS			
Sample #10	5	S	08/19/13	1632	4.40	NS	NS	<0.200	**4.64**	<0.200	**4.76**	0.69	**30.4**	**12.9**	**18.41**	NS			
Sample #11	5	S	08/19/13	<10	1.00	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-1-1	3.5	U	10/13/14	580	22.3	NS	NS	<0.250	0.400	<0.250	**2.330**	<0.250	**69**	**35**	**14.8**	NS	0	8.98E-01	5.1E-07
G-1-2	8.0	S	10/13/14	125	NS	NS	NS	**13.1**	**69**	<0.250	**22.1**	**91**	**161**	**57**	**360***	NS			
G-2-1	3.5	U	10/13/14	10	13.9	NS	NS	**0.046**	0.087	<0.025	0.221	0.237	0.253	0.107	0.618	NS	0	4.01E-02	8.5E-08
G-2-2	8.0	S	10/13/14	50	NS	NS	NS	**0.380**	0.380	<0.025	0.460	0.254	**3.7**	**1.85**	1.48	NS			
G-2-3	10.0	S	10/13/14	10	NOT SAMPLED											NS			
G-3-1	3.5	U	10/13/14	NM	1.64	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0	4.10E-03	
G-3-2	8.0	S	10/13/14	NM	NS	NS	NS	<0.025	<0.025	<0.025	0.038	<0.025	0.168	0.0302	<0.075	NS			
G-4-1	3.5	U	10/13/14	0	NOT SAMPLED											NS			
G-4-2	8.0	S	10/13/14	0	NOT SAMPLED											NS			
G-5-1	3.5	U	10/13/14	0	NOT SAMPLED											NS			
G-5-2	8.0	S	10/13/14	0	NOT SAMPLED											NS			
G-6-1	3.5	U	10/13/14	5	1.87	NS	NS	<0.025	<0.025	<0.025	0.038	<0.025	0.168	0.0302	<0.075	NS	0	4.68E-03	
G-6-2	8.0	S	10/13/14	965	NS	NS	NS	**39**	**133**	<2.5	**60**	**350**	**311**	**116**	**684***	NS			
G-7-1	3.5	U	10/13/14	0	NOT SAMPLED											NS			
G-7-2	8.0	S	10/13/14	0	NOT SAMPLED											NS			
G-8-1	3.5	U	10/13/14	0	NOT SAMPLED											NS			
G-8-2	8.0	S	10/13/14	0	NOT SAMPLED											NS			
G-9-1	3.5	U	10/13/14	0	NOT SAMPLED											NS			
G-9-2	8.0	S	10/13/14	0	NOT SAMPLED											NS			
G-10-1	3.5	U	10/13/14	0	NOT SAMPLED											NS			
G-10-2	8.0	S	10/13/14	0	NOT SAMPLED											NS			
G-11-1	3.5	U	10/13/14	0	NOT SAMPLED											NS			
G-11-2	8.0	S	10/13/14	25	NOT SAMPLED											NS			
G-12-1	3.5	U	10/13/14	515	14.3	NS	NS	<1.25	<1.25	<1.25	**4.4**	**1.58**	**99**	**41**	**63.7**	NS	**1**	1.29E+00	8.5E-07
G-12-2	8.0	S	10/13/14	580	3.6	NS	NS	**5.6**	**89**	<1.5	**42**	**88**	**276***	**81**	**484***	SEE VOC SHEET			
G-13-1	3.5	U	10/13/14	0	3.1	NS	NS	<0.025	<0.025	<0.025	0.0263	0.039	0.0252	<0.025	0.0307-0.0807	NS	0	8.21E-03	5.1E-09
G-13-2	8.0	S	10/13/14	320	NS	NS	NS	**0.0286**	0.126	<0.025	0.045	0.063	0.211	0.082	0.503	NS			
G-14-1	3.5	U	10/13/14	5	**27.2**	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0	6.80E-02	
G-14-2	8.0	S	10/13/14	0	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-15-1	3.5	U	10/13/14	0	**83.8**	NS	NS	<0.025	<0.025	<0.025	0.044	0.036	0.043	<0.025	0.098	NS	0	2.10E-01	8.5E-09
G-15-2	8.0	S	10/13/14	0	NS	NS	NS	<0.025	<0.025	<0.025	0.036	0.032	0.0272	<0.025	0.026-0.076	NS			
G-16-1	3.5	U	10/13/14	1300	13.8	NS	NS	**0.420**	0.410	<0.250	**1.36**	0.390	**12**	**10.3**	**7.21**	NS	0	2.01E-01	6.0E-07
G-16-2	8.0	S	10/13/14	550	NS	NS	NS	**7.1**	**57**	<0.250	**18.7**	**25.6**	**155**	**57**	**231**	NS			
MW-1-1	3.5	U	08/28/15	215	NS	NS	360	**0.089**	0.205	<0.025	**1.38**	0.133	**14.9**	**9.3**	1.49	NS	0	1.88E-01	3.6E-07
MW-1-2	8.0	S	08/28/15	845	1.57	NS	430	**1.4**	7	<0.025	**2.58**	**10.6**	18.3	7	**34.8**	TCLP LEAD 1.3			
MW-1-3	9.5	S	08/28/15	15	NOT SAMPLED											NS			
MW-2-1	3.5	U	08/28/15	2.6	NOT SAMPLED											NS			
MW-2-2	8.0	S	08/28/15	8.4	NOT SAMPLED											NS			
MW-2-3	9.0	S	08/28/15	2.9	NOT SAMPLED											NS			
MW-3-1	3.5	U	08/28/15	2.0	NOT SAMPLED											NS			
MW-3-2	8.0	S	08/28/15	1.5	NOT SAMPLED											NS			
MW-3-3	7.0	S	08/28/15	2.5	NOT SAMPLED											NS			
MW-4-1	3.5	U	08/28/15	2.5	NOT SAMPLED											NS			
MW-4-2	8.0	S	08/28/15	2.9	NOT SAMPLED											NS			
MW-4-3	8.0	S	08/28/15	1.5	NOT SAMPLED											NS			
MW-5-1	3.5	U	08/28/15	3.7	NOT SAMPLED											NS			
MW-5-2	8.0	S	08/28/15	2.7	NOT SAMPLED											NS			
MW-5-3	8.5	S	08/28/15	2.5	NOT SAMPLED											NS			
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

A.2. Soil Analytical Results Table
Dave's Gas Station BRRTS# 03-27-001459

Sampling Conducted on October 13, 2014

VOC's		Bold = Groundwater RCL	Underline & Bold = Direct Contact RCL (Non-Industrial)	Asteric * & Bold =Soil Saturation (C-sat) RCL
Sample ID#	**G-12-2**			
Sample Depth/ft.	8			
Solids Percent	87			
Lead/ppm	3.63	27	400	
Benzene/ppm	**5.6**	0.00512	1.49	1820
Bromobenzene/ppm	< 0.650	= =	354	= =
Bromodichloromethane/ppm	< 1.350	0.000326	0.39	= =
Bromoform/ppm	< 1.500	0.00233	61.6	= =
tert-Butylbenzene/ppm	< 1.000	= =	183	183
sec-Butylbenzene/ppm	4.000 "J"	= =	145	145
n-Butylbenzene/ppm	23.9	= =	108	108
Carbon Tetrachloride/ppm	< 1.250	0.00388	0.85	= =
Chlorobenzene/ppm	< 0.800	= =	392	= =
Chloroethane/ppm	< 2.100	0.227	= =	= =
Chloroform/ppm	< 2.450	0.0033	0.42	= =
Chloromethane/ppm	< 12.250	0.0155	171	= =
2-Chlorotoluene/ppm	< 0.800	= =	= =	= =
4-Chlorotoluene/ppm	< 0.700	= =	= =	= =
1,2-Dibromo-3-chloropropane/ppm	< 2.400	0.000173	0.01	= =
Dibromochloromethane/ppm	< 0.700	0.032	0.93	= =
1,4-Dichlorobenzene/ppm	< 1.650	0.144	3.48	= =
1,3-Dichlorobenzene/ppm	< 1.500	1.15	297	297
1,2-Dichlorobenzene/ppm	< 1.900	1.17	376	376
Dichlorodifluoromethane/ppm	< 2.850	3.08	135	= =
1,2-Dichloroethane/ppm	< 1.800	0.00284	0.61	540
1,1-Dichloroethane/ppm	< 0.950	0.484	4.72	= =
1,1-Dichloroethene/ppm	< 1.050	0.00502	342	= =
cis-1,2-Dichloroethene/ppm	< 1.200	0.0412	156	= =
trans-1,2-Dichloroethene/ppm	< 1.450	0.0588	211	= =
1,2-Dichloropropane/ppm	< 0.475	0.00332	1.33	= =
2,2-Dichloropropane/ppm	< 2.300	= =	527	527
1,3-Dichloropropane/ppm	< 1.050	= =	1490	1490
Di-isopropyl ether/ppm	< 0.550	= =	2260	2260
EDB (1,2-Dibromoethane)/ppm	< 1.000	0.0000282	0.05	= =
Ethylbenzene/ppm	**89**	1.57	7.47	480
Hexachlorobutadiene/ppm	< 4.750	= =	6.23	= =
Isopropylbenzene/ppm	9.9	= =	= =	= =
p-Isopropyltoluene/ppm	2.770 "J"	= =	162	162
Methylene chloride/ppm	< 11.050	0.00256	60.7	= =
Methyl tert-butyl ether (MTBE)/ppm	< 1.500	0.027	59.4	8870
Naphthalene/ppm	**42**	0.659	5.15	= =
n-Propylbenzene/ppm	42	= =	= =	= =
1,1,2,2-Tetrachloroethane/ppm	< 0.600	0.000156	0.75	= =
1,1,1,2-Tetrachloroethane/ppm	< 1.150	0.0533	2.59	= =
Tetrachloroethene (PCE)/ppm	< 2.450	0.00454	30.7	= =
Toluene/ppm	**88**	1.11	818	818
1,2,4-Trichlorobenzene/ppm	< 3.950	0.408	22.1	= =
1,2,3-Trichlorobenzene/ppm	< 6.450	= =	48.9	= =
1,1,1-Trichloroethane/ppm	< 1.900	0.14	= =	= =
1,1,2-Trichloroethane/ppm	< 1.150	0.00324	1.48	= =
Trichloroethene (TCE)/ppm	< 1.400	0.00358	0.64	= =
Trichlorofluoromethane/ppm	< 4.300	= =	1120	= =
1,2,4-Trimethylbenzene/ppm	**276**	1.38	89.8	219
1,3,5-Trimethylbenzene/ppm	**81**		182	182
Vinyl Chloride/ppm	< 1.050	0.000138	0.07	= =
m&p-Xylene/ppm	**370**	3.94	258	258
o-Xylene/ppm	**114**			

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
(Geoprobe)
Dave's Gas Station BRRTS# 03-27-001459

Sample ID	Date	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naph-thalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
G-1-W	10/14/14	**1240**	**1100**	<23	**370**	**5400**	**2010**	**7220**
G-2-W	10/14/14	*1.84*	8.6	<0.23	4.3	8.7	43.2	53.7
G-3-W	10/14/14	<0.24	2.58	<0.23	<1.7	0.91	8.51	9.01
G-4-W	10/14/14	*0.50*	1.94	<0.23	<1.7	1.64	3.08-4.48	9.45
G-5-W	10/14/14	<0.24	2.41	<0.23	<1.7	4	5.56	12.4
G-6-W	10/14/14	**4400**	**1490**	<37	**560**	**13000**	**2020**	**7940**
G-7-W	10/14/14	0.35	2.67	<0.23	<1.7	5.8	10.89	15.1
G-8-W	10/14/14	<0.24	<0.55	<0.23	<1.7	<0.69	<3.6	<1.32
G-9-W	10/14/14	<0.24	<0.55	<0.23	<1.7	<0.69	<3.6	3.07
G-10-W	10/14/14	<0.24	<0.55	<0.23	<1.7	<0.69	<3.6	<1.32
G-11-W	10/14/14	**380**	*191*	<3.7	*62*	46	*204*	*966*
G-12-W	10/14/14	**680**	**810**	<23	**350**	**3800**	**3570**	**8870**
G-13-W	10/14/14	**77**	**910**	<23	**314**	**1030**	**2160**	**4840**
G-14-W	10/14/14	<0.27	1.4	<0.37	<1.2	1.21	4.51	6.5
G-15-W	10/14/14	<0.27	<0.82	<0.37	<1.2	<0.8	1.03-1.89	<2.41
G-16-W	10/14/14	**203**	**1620**	<23	**450**	**5200**	**3360**	**9020**
ENFORCE MENT STANDARD ES = Bold		**5**	**700**	**60**	**100**	**800**	**480**	**2000**
PREVENTIVE ACTION LIMIT PAL = Italics		*0.5*	*140*	*12*	*10*	*160*	*96*	*400*

NS = Not Sampled

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

DRO = Diesel Range Organics

GRO = Gasoline Range Organics

A.1 Groundwater Analytical Table
Daves Gas Station Site BRRT's# 03-27-001459

Well MW-1
PVC Elevation = 937.03 (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)
11/04/15	932.05	4.98	**38.5**	**610**	**950**	<110	**370**	**3020**	**4320**	**5540**
02/09/16	FREE PRODUCT		*10.6*	**200**	**1350**	<24.5	**1000**	**1580**	**5350**	**8410**
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 = 936.63 (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)
11/04/15	932.47	4.16	*1.5*	7.7	1.8	<1.1	2.3	0.49	<3.1	4.34
02/09/16	932.48	4.15	*3.9*	<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 = 936.72 (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)
11/04/15	932.17	4.55	<0.7	<0.44	<0.71	<1.1	<1.6	<0.44	<3.1	<3.1
02/09/16	932.21	4.51	<0.7	<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
Daves Gas Station Site BRRT's# 03-27-001459

Well MW-4
PVC Elevation = 936.09 (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)
11/04/15	932.37	3.72	<0.7	<0.44	<0.71	<1.1	<1.6	<0.44	<3.1	<3.1
02/09/16	932.39	3.70	<0.7	<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-5
PVC Elevation = 937.76 (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)
11/04/15	932.92	4.84	<0.7	<0.44	3.07	<1.1	*27.8*	<0.44	18	4.74
02/09/16	933.29	4.47	<0.7	<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
Daves Gas Station Site BRRT's# 03-27-001459

Well Sampling Conducted on:	11/04/15	11/04/15	11/04/15	11/04/15	11/04/15		
VOC's Well Name	MW-1	MW-2	MW-3	MW-4	MW-5	ENFORCE MENT STANDARD = ES – Bold	*PREVENTIVE ACTION LIMIT = PAL - Italics*
Lead, dissolved/ppb	**38.5**	*1.5*	< 0.7	< 0.7	< 0.7	**15**	*1.5*
Benzene/ppb	**610**	7.7	< 0.44	< 0.44	< 0.44	**5**	*0.5*
Bromobenzene/ppb	< 48	< 0.48	< 0.48	< 0.48	< 0.48	==	==
Bromodichloromethane/ppb	< 46	< 0.46	< 0.46	< 0.46	< 0.46	**0.6**	*0.06*
Bromoform/ppb	< 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	==	==
sec-Butylbenzene/ppb	< 120	< 1.2	< 1.2	< 1.2	< 1.2	==	==
n-Butylbenzene/ppb	380	< 1	< 1	< 1	1.91 "J"	==	==
Carbon Tetrachloride/ppb	< 51	< 0.51	< 0.51	< 0.51	< 0.51	**5**	*0.5*
Chlorobenzene/ppb	< 46	< 0.46	< 0.46	< 0.46	< 0.46	==	==
Chloroethane/ppb	< 65	< 0.65	< 0.65	< 0.65	< 0.65	**400**	*80*
Chloroform/ppb	< 43	< 0.43	< 0.43	< 0.43	< 0.43	**6**	*0.6*
Chloromethane/ppb	< 190	< 1.9	< 1.9	< 1.9	< 1.9	**30**	*3*
2-Chlorotoluene/ppb	< 40	< 0.4	< 0.4	< 0.4	< 0.4	==	==
4-Chlorotoluene/ppb	< 63	< 0.63	< 0.63	< 0.63	< 0.63	==	==
1,2-Dibromo-3-chloropropane/ppb	< 140	< 1.4	< 1.4	< 1.4	< 1.4	**0.2**	*0.02*
Dibromochloromethane/ppb	< 45	< 0.45	< 0.45	< 0.45	< 0.45	**60**	*6*
1,4-Dichlorobenzene/ppb	< 49	< 0.49	< 0.49	< 0.49	< 0.49	**75**	*15*
1,3-Dichlorobenzene/ppb	< 52	< 0.52	< 0.52	< 0.52	< 0.52	**600**	*120*
1,2-Dichlorobenzene/ppb	< 46	< 0.46	< 0.46	< 0.46	< 0.46	**600**	*60*
Dichlorodifluoromethane/ppb	< 87	< 0.87	< 0.87	< 0.87	< 0.87	**1000**	*200*
1,2-Dichloroethane/ppb	< 48	< 0.48	< 0.48	< 0.48	< 0.48	**5**	*0.5*
1,1-Dichloroethane/ppb	< 110	< 1.1	< 1.1	< 1.1	< 1.1	**850**	*85*
1,1-Dichloroethene/ppb	< 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	**70**	*7*
trans-1,2-Dichloroethene/ppb	< 54	< 0.54	< 0.54	< 0.54	< 0.54	**100**	*20*
1,2-Dichloropropane/ppb	< 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	==	==
1,3-Dichloropropane/ppb	< 42	< 0.42	< 0.42	< 0.42	< 0.42	==	==
Di-isopropyl ether/ppb	< 44	< 0.44	< 0.44	< 0.44	< 0.44	==	==
EDB (1,2-Dibromoethane)/ppb	< 63	< 0.63	< 0.63	< 0.63	< 0.63	**0.05**	*0.005*
Ethylbenzene/ppb	**950**	1.8 "J"	< 0.71	< 0.71	3.07	**700**	*140*
Hexachlorobutadiene/ppb	< 220	< 2.2	< 2.2	< 2.2	< 2.2	==	==
Isopropylbenzene/ppb	90 "J"	< 0.82	< 0.82	< 0.82	1.15 "J"	==	==
p-Isopropyltoluene/ppb	< 110	< 1.1	< 1.1	< 1.1	< 1.1	==	==
Methylene chloride/ppb	< 130	< 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	**60**	*12*
Naphthalene/ppb	**370 "J"**	2.3 "J"	< 1.6	< 1.6	*27.8*	**100**	*10*
n-Propylbenzene/ppb	350	< 0.77	< 0.77	< 0.77	3.6	==	==
1,1,2,2-Tetrachloroethane/ppb	< 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	**70**	*7*
Tetrachloroethene (PCE)/ppb	< 49	< 0.49	< 0.49	< 0.49	< 0.49	**5**	*0.5*
Toluene/ppb	**3020**	0.49 "J"	< 0.44	< 0.44	< 0.44	**800**	*160*
1,2,4-Trichlorobenzene/ppb	< 170	< 1.7	< 1.7	< 1.7	< 1.7	**70**	*14*
1,2,3-Trichlorobenzene/ppb	< 270	< 2.7	< 2.7	< 2.7	< 2.7	==	==
1,1,1-Trichloroethane/ppb	< 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	**5**	*0.5*
Trichloroethene (TCE)/ppb	< 47	< 0.47	< 0.47	< 0.47	< 0.47	**5**	*0.5*
Trichlorofluoromethane/ppb	< 87	< 0.87	< 0.87	< 0.87	< 0.87	==	==
1,2,4-Trimethylbenzene/ppb	**3200**	< 1.6	< 1.6	< 1.6	14.6		
1,3,5-Trimethylbenzene/ppb	**1120**	< 1.5	< 1.5	< 1.5	3.4 "J"	**Total TMB's 480**	*Total TMB's 96*
Vinyl Chloride/ppb	< 17	< 0.17	< 0.17	< 0.17	< 0.17	**0.2**	*0.02*
m&p-Xylene/ppb	**4100**	3.2 "J"	< 2.2	< 2.2	3.6 "J"		
o-Xylene/ppb	**1440**	1.14 "J"	< 0.9	< 0.9	1.14 "J"	**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.6 Water Level Elevations
Daves Gas Station Site BRRT's# 03-27-001459
Merrillan, Wisconsin

	MW-1	MW-2	MW-3	MW-4	MW-5
Ground Surface (feet msl)	937.50	937.12	937.01	936.64	938.19
PVC top (feet msl)	937.03	936.63	936.72	936.09	937.76
Well Depth (feet)	13.00	13.00	13.00	13.00	13.00
Top of screen (feet msl)	934.50	934.12	934.01	933.64	935.19
Bottom of screen (feet msl)	924.50	924.12	924.01	923.64	925.19
Depth to Water From Top of PVC (feet)					
11/04/15	4.98	4.16	4.55	3.72	4.84
02/09/16	FP	4.15	4.51	3.70	4.47
Depth to Water From Ground Surface (feet)					
11/04/15	5.45	4.65	4.84	4.27	5.27
02/09/16	FP	4.64	4.80	4.25	4.90
Groundwater Elevation (feet msl)					
11/04/15	932.05	932.47	932.17	932.37	932.92
02/09/16	FP	932.48	932.21	932.39	933.29

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

A.7 Other
Groundwater NA Indicator Results
Daves Gas Station Site BRRT's# 03-27-001459

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)
11/04/15	2.12	6.83	-76	14.1	970	0.395	1510	8.96	**318**
02/09/16	2.03	7.18	-97	7.9	1287	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)
11/04/15	4.02	6.93	245	13.5	638	*2.56*	<300	0.33	*64.7*
02/09/16	4.23	6.93	110	7.7	876	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)
11/04/15	5.71	6.59	227	12.9	251	0.750	<300	0.29	*198*
02/09/16	6.71	6.52	229	7.6	589	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).

A.7 Other

Groundwater NA Indicator Results

Daves Gas Station Site BRRT's# 03-27-001459

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)
11/04/15	5.25	6.92	211	13.1	235	0.442	<300	0.31	*116*
02/09/16	5.28	6.27	230	7.4	671	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-5

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Man-ganese (ppb)
11/04/15	6.16	6.70	182	14.4	211	0.265	<300	0.84	*192*
02/09/16	5.49	6.86	181	7.5	552	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).

A.7 Other
Summary of Free Product Levels & Recovery
Dave's Gas Station BRRTS # 03-27-001459

DATE		MW-1	GALS REC./PERIOD	TOT GALS RECOVERED
02/09/16	Inches of FP	7.00	0.09	0.09
	Gals Rec. w/ Absorbent Sock	0.00		
	Gals Rec. w/ Bailer	0.09		

8.0 PHOTOS

Photos

Photo #1: Looking east.

Photo #2: Looking south.

Photo #3: Looking northwest.

Photo #4: Looking southeast.

APPENDIX A/ METHODS OF INVESTIGATION

Geoprobe Project

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

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

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

Geoprobe Soil Sampling

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

Geoprobe Groundwater Sampling

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

Drilling Project

Soil borings were conducted by 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 35-90 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 October 30, 2015, DKS Transport Services, LLC, of Menomonie, Wisconsin picked-up and disposed of six drums of soil cuttings and one drum of purge water to 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

MATT LECHNER C/O METCO
MATT LECHNER

BLACK RIVER FALLS, WI 54615

Report Date *31-Oct-14*

Project Name DAVE'S GAS STATION **Invoice #** E27888
Project #

Lab Code 5027888A
Sample ID MEOH BLANK
Sample Matrix Soil
Sample Date 10/13/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 25	ug/kg	7.9	25	1	GRO95/8021		10/20/2014	CJR	1
Ethylbenzene	< 25	ug/kg	7.7	25	1	GRO95/8021		10/20/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		10/20/2014	CJR	1
Naphthalene	< 25	ug/kg	22	70	1	GRO95/8021		10/20/2014	CJR	1
Toluene	< 25	ug/kg	8.4	27	1	GRO95/8021		10/20/2014	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	10	33	1	GRO95/8021		10/20/2014	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	9.3	30	1	GRO95/8021		10/20/2014	CJR	1
m&p-Xylene	< 50	ug/kg	16	50	1	GRO95/8021		10/20/2014	CJR	1
o-Xylene	< 25	ug/kg	10	32	1	GRO95/8021		10/20/2014	CJR	1

Project Name DAVE'S GAS STATION **Invoice #** E27888
Project #

Lab Code 5027888B
Sample ID G-1-1
Sample Matrix Soil
Sample Date 10/13/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	90.5	%			1	5021		10/17/2014	RKM	1
Inorganic										
Metals										
Lead, Total	22.3	mg/Kg	0.3	0.96	1	6010B		10/29/2014	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	< 250	ug/kg	79	250	10	GRO95/8021		10/21/2014	CJR	1
Ethylbenzene	400	ug/kg	77	250	10	GRO95/8021		10/21/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 250	ug/kg	81	260	10	GRO95/8021		10/21/2014	CJR	1
Naphthalene	2330	ug/kg	220	700	10	GRO95/8021		10/21/2014	CJR	1
Toluene	< 250	ug/kg	84	270	10	GRO95/8021		10/21/2014	CJR	1
1,2,4-Trimethylbenzene	69000	ug/kg	100	330	10	GRO95/8021		10/21/2014	CJR	1
1,3,5-Trimethylbenzene	35000	ug/kg	93	300	10	GRO95/8021		10/21/2014	CJR	1
m&p-Xylene	8600	ug/kg	160	500	10	GRO95/8021		10/21/2014	CJR	1
o-Xylene	6200	ug/kg	100	320	10	GRO95/8021		10/21/2014	CJR	1

Lab Code 5027888C
Sample ID G-1-2
Sample Matrix Soil
Sample Date 10/13/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	88.1	%			1	5021		10/17/2014	RKM	1
Organic										
PVOC + Naphthalene										
Benzene	13100	ug/kg	79	250	10	GRO95/8021		10/21/2014	CJR	1
Ethylbenzene	69000	ug/kg	77	250	10	GRO95/8021		10/21/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 250	ug/kg	81	260	10	GRO95/8021		10/21/2014	CJR	1
Naphthalene	22100	ug/kg	220	700	10	GRO95/8021		10/21/2014	CJR	1
Toluene	91000	ug/kg	84	270	10	GRO95/8021		10/21/2014	CJR	1
1,2,4-Trimethylbenzene	161000	ug/kg	100	330	10	GRO95/8021		10/21/2014	CJR	1
1,3,5-Trimethylbenzene	57000	ug/kg	93	300	10	GRO95/8021		10/21/2014	CJR	1
m&p-Xylene	265000	ug/kg	160	500	10	GRO95/8021		10/21/2014	CJR	1
o-Xylene	95000	ug/kg	100	320	10	GRO95/8021		10/21/2014	CJR	1

Project Name DAVE'S GAS STATION **Invoice #** E27888
Project #

Lab Code 5027888D
Sample ID G-2-1
Sample Matrix Soil
Sample Date 10/13/2014

	Result		Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General											
General											
Solids Percent	93.1		%			1	5021		10/20/2014	RKM	1
Inorganic											
Metals											
Lead, Total	13.9		mg/Kg	0.3	0.96	1	6010B		10/29/2014	CWT	1
Organic											
PVOC + Naphthalene											
Benzene	46		ug/kg	7.9	25	1	GRO95/8021		10/24/2014	CJR	1
Ethylbenzene	87		ug/kg	7.7	25	1	GRO95/8021		10/24/2014	CJR	1
Methyl tert-butyl ether (MTBE)		< 25	ug/kg	8.1	26	1	GRO95/8021		10/24/2014	CJR	1
Naphthalene	221		ug/kg	22	70	1	GRO95/8021		10/24/2014	CJR	1
Toluene	237		ug/kg	8.4	27	1	GRO95/8021		10/24/2014	CJR	1
1,2,4-Trimethylbenzene	253		ug/kg	10	33	1	GRO95/8021		10/24/2014	CJR	1
1,3,5-Trimethylbenzene	107		ug/kg	9.3	30	1	GRO95/8021		10/24/2014	CJR	1
m&p-Xylene	400		ug/kg	16	50	1	GRO95/8021		10/24/2014	CJR	1
o-Xylene	218		ug/kg	10	32	1	GRO95/8021		10/24/2014	CJR	1

Lab Code 5027888E
Sample ID G-2-2
Sample Matrix Soil
Sample Date 10/13/2014

	Result		Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General											
General											
Solids Percent	87.3		%			1	5021		10/20/2014	RKM	1
Organic											
PVOC + Naphthalene											
Benzene	380		ug/kg	7.9	25	1	GRO95/8021		10/21/2014	CJR	1
Ethylbenzene	380		ug/kg	7.7	25	1	GRO95/8021		10/21/2014	CJR	1
Methyl tert-butyl ether (MTBE)		< 25	ug/kg	8.1	26	1	GRO95/8021		10/21/2014	CJR	1
Naphthalene	460		ug/kg	22	70	1	GRO95/8021		10/21/2014	CJR	1
Toluene	254		ug/kg	8.4	27	1	GRO95/8021		10/21/2014	CJR	1
1,2,4-Trimethylbenzene	3700		ug/kg	10	33	1	GRO95/8021		10/21/2014	CJR	1
1,3,5-Trimethylbenzene	1850		ug/kg	9.3	30	1	GRO95/8021		10/21/2014	CJR	1
m&p-Xylene	1110		ug/kg	16	50	1	GRO95/8021		10/21/2014	CJR	1
o-Xylene	370		ug/kg	10	32	1	GRO95/8021		10/21/2014	CJR	1

Project Name DAVE'S GAS STATION **Invoice #** E27888
Project #

Lab Code 5027888F
Sample ID G-3-1
Sample Matrix Soil
Sample Date 10/13/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	89.7	%			1	5021		10/20/2014	RKM	1
Inorganic										
Metals										
Lead, Total	1.64	mg/Kg	0.3	0.96	1	6010B		10/29/2014	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	< 25	ug/kg	7.9	25	1	GRO95/8021		10/22/2014	CJR	1
Ethylbenzene	< 25	ug/kg	7.7	25	1	GRO95/8021		10/22/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		10/22/2014	CJR	1
Naphthalene	< 25	ug/kg	22	70	1	GRO95/8021		10/22/2014	CJR	1
Toluene	< 25	ug/kg	8.4	27	1	GRO95/8021		10/22/2014	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	10	33	1	GRO95/8021		10/22/2014	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	9.3	30	1	GRO95/8021		10/22/2014	CJR	1
m&p-Xylene	< 50	ug/kg	16	50	1	GRO95/8021		10/22/2014	CJR	1
o-Xylene	< 25	ug/kg	10	32	1	GRO95/8021		10/22/2014	CJR	1

Lab Code 5027888G
Sample ID G-3-2
Sample Matrix Soil
Sample Date 10/13/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	88.4	%			1	5021		10/20/2014	RKM	1
Organic										
PVOC + Naphthalene										
Benzene	< 25	ug/kg	7.9	25	1	GRO95/8021		10/22/2014	CJR	1
Ethylbenzene	< 25	ug/kg	7.7	25	1	GRO95/8021		10/22/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		10/22/2014	CJR	1
Naphthalene	38 "J"	ug/kg	22	70	1	GRO95/8021		10/22/2014	CJR	1
Toluene	< 25	ug/kg	8.4	27	1	GRO95/8021		10/22/2014	CJR	1
1,2,4-Trimethylbenzene	168	ug/kg	10	33	1	GRO95/8021		10/22/2014	CJR	1
1,3,5-Trimethylbenzene	30.2	ug/kg	9.3	30	1	GRO95/8021		10/22/2014	CJR	1
m&p-Xylene	< 50	ug/kg	16	50	1	GRO95/8021		10/22/2014	CJR	1
o-Xylene	< 25	ug/kg	10	32	1	GRO95/8021		10/22/2014	CJR	1

Project Name DAVE'S GAS STATION **Invoice #** E27888
Project #

Lab Code 5027888H
Sample ID G-6-1
Sample Matrix Soil
Sample Date 10/13/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	92.6	%			1	5021		10/20/2014	RKM	1
Inorganic										
Metals										
Lead, Total	1.87	mg/Kg	0.3	0.96	1	6010B		10/29/2014	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	< 25	ug/kg	7.9	25	1	GRO95/8021		10/22/2014	CJR	1
Ethylbenzene	< 25	ug/kg	7.7	25	1	GRO95/8021		10/22/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		10/22/2014	CJR	1
Naphthalene	< 25	ug/kg	22	70	1	GRO95/8021		10/22/2014	CJR	1
Toluene	< 25	ug/kg	8.4	27	1	GRO95/8021		10/22/2014	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	10	33	1	GRO95/8021		10/22/2014	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	9.3	30	1	GRO95/8021		10/22/2014	CJR	1
m&p-Xylene	< 50	ug/kg	16	50	1	GRO95/8021		10/22/2014	CJR	1
o-Xylene	< 25	ug/kg	10	32	1	GRO95/8021		10/22/2014	CJR	1

Lab Code 5027888I
Sample ID G-6-2
Sample Matrix Soil
Sample Date 10/13/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	88.1	%			1	5021		10/20/2014	RKM	1
Organic										
PVOC + Naphthalene										
Benzene	39000	ug/kg	790	2500	100	GRO95/8021		10/22/2014	CJR	1
Ethylbenzene	133000	ug/kg	770	2500	100	GRO95/8021		10/22/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 2500	ug/kg	810	2600	100	GRO95/8021		10/22/2014	CJR	1
Naphthalene	60000	ug/kg	2200	7000	100	GRO95/8021		10/22/2014	CJR	1
Toluene	350000	ug/kg	840	2700	100	GRO95/8021		10/22/2014	CJR	1
1,2,4-Trimethylbenzene	311000	ug/kg	1000	3300	100	GRO95/8021		10/22/2014	CJR	1
1,3,5-Trimethylbenzene	116000	ug/kg	930	3000	100	GRO95/8021		10/22/2014	CJR	1
m&p-Xylene	500000	ug/kg	1600	5000	100	GRO95/8021		10/22/2014	CJR	1
o-Xylene	184000	ug/kg	1000	3200	100	GRO95/8021		10/22/2014	CJR	1

Project Name DAVE'S GAS STATION **Invoice #** E27888
Project #

Lab Code 5027888J
Sample ID G-12-1
Sample Matrix Soil
Sample Date 10/13/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	90.0	%			1	5021		10/20/2014	RKM	1
Inorganic										
Metals										
Lead, Total	14.3	mg/Kg	0.3	0.96	1	6010B		10/29/2014	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	< 1250	ug/kg	395	1250	50	GRO95/8021		10/22/2014	CJR	1
Ethylbenzene	< 1250	ug/kg	385	1250	50	GRO95/8021		10/22/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 1250	ug/kg	405	1300	50	GRO95/8021		10/22/2014	CJR	1
Naphthalene	4400	ug/kg	1100	3500	50	GRO95/8021		10/22/2014	CJR	1
Toluene	1580	ug/kg	420	1350	50	GRO95/8021		10/22/2014	CJR	1
1,2,4-Trimethylbenzene	99000	ug/kg	500	1650	50	GRO95/8021		10/22/2014	CJR	1
1,3,5-Trimethylbenzene	41000	ug/kg	465	1500	50	GRO95/8021		10/22/2014	CJR	1
m&p-Xylene	42000	ug/kg	800	2500	50	GRO95/8021		10/22/2014	CJR	1
o-Xylene	21700	ug/kg	500	1600	50	GRO95/8021		10/22/2014	CJR	1

Project Name DAVE'S GAS STATION **Invoice #** E27888
Project #

Lab Code 5027888K
Sample ID G-12-2
Sample Matrix Soil
Sample Date 10/13/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	87.0	%			1	5021		10/20/2014	RKM	1
Inorganic										
Metals										
Lead, Total	3.63	mg/Kg	0.3	0.96	1	6010B		10/29/2014	CWT	1
Organic										
VOC's										
Benzene	5600	ug/kg	460	1450	50	8260B		10/21/2014	CJR	1
Bromobenzene	< 650	ug/kg	650	2000	50	8260B		10/21/2014	CJR	1
Bromodichloromethane	< 1350	ug/kg	1350	4250	50	8260B		10/21/2014	CJR	1
Bromoform	< 1500	ug/kg	1500	4750	50	8260B		10/21/2014	CJR	1
tert-Butylbenzene	< 1000	ug/kg	1000	3200	50	8260B		10/21/2014	CJR	1
sec-Butylbenzene	4000 "J"	ug/kg	2050	6600	50	8260B		10/21/2014	CJR	1
n-Butylbenzene	23900	ug/kg	1300	4100	50	8260B		10/21/2014	CJR	1
Carbon Tetrachloride	< 1250	ug/kg	1250	3950	50	8260B		10/21/2014	CJR	1
Chlorobenzene	< 800	ug/kg	800	2600	50	8260B		10/21/2014	CJR	1
Chloroethane	< 2100	ug/kg	2100	6650	50	8260B		10/21/2014	CJR	1
Chloroform	< 2450	ug/kg	2450	7850	50	8260B		10/21/2014	CJR	1
Chloromethane	< 12250	ug/kg	12250	39000	50	8260B		10/21/2014	CJR	1
2-Chlorotoluene	< 800	ug/kg	800	2600	50	8260B		10/21/2014	CJR	1
4-Chlorotoluene	< 700	ug/kg	700	2150	50	8260B		10/21/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 2400	ug/kg	2400	7700	50	8260B		10/21/2014	CJR	1
Dibromochloromethane	< 700	ug/kg	700	2250	50	8260B		10/21/2014	CJR	1
1,4-Dichlorobenzene	< 1650	ug/kg	1650	5150	50	8260B		10/21/2014	CJR	1
1,3-Dichlorobenzene	< 1500	ug/kg	1500	4750	50	8260B		10/21/2014	CJR	1
1,2-Dichlorobenzene	< 1900	ug/kg	1900	6100	50	8260B		10/21/2014	CJR	1
Dichlorodifluoromethane	< 2850	ug/kg	2850	9100	50	8260B		10/21/2014	CJR	1
1,2-Dichloroethane	< 1800	ug/kg	1800	5700	50	8260B		10/21/2014	CJR	1
1,1-Dichloroethane	< 950	ug/kg	950	3000	50	8260B		10/21/2014	CJR	1
1,1-Dichloroethene	< 1050	ug/kg	1050	3300	50	8260B		10/21/2014	CJR	1
cis-1,2-Dichloroethene	< 1200	ug/kg	1200	3850	50	8260B		10/21/2014	CJR	1
trans-1,2-Dichloroethene	< 1450	ug/kg	1450	4650	50	8260B		10/21/2014	CJR	1
1,2-Dichloropropane	< 475	ug/kg	475	1500	50	8260B		10/21/2014	CJR	1
2,2-Dichloropropane	< 2300	ug/kg	2300	7400	50	8260B		10/21/2014	CJR	8
1,3-Dichloropropane	< 1050	ug/kg	1050	3400	50	8260B		10/21/2014	CJR	1
Di-isopropyl ether	< 550	ug/kg	550	1700	50	8260B		10/21/2014	CJR	1
EDB (1,2-Dibromoethane)	< 1000	ug/kg	1000	3200	50	8260B		10/21/2014	CJR	1
Ethylbenzene	89000	ug/kg	500	1650	50	8260B		10/21/2014	CJR	1
Hexachlorobutadiene	< 4750	ug/kg	4750	15200	50	8260B		10/21/2014	CJR	3
Isopropylbenzene	9900	ug/kg	1250	4000	50	8260B		10/21/2014	CJR	1
p-Isopropyltoluene	2770 "J"	ug/kg	1550	4900	50	8260B		10/21/2014	CJR	1
Methylene chloride	< 11050	ug/kg	11050	35200	50	8260B		10/21/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 1500	ug/kg	1500	4800	50	8260B		10/21/2014	CJR	1
Naphthalene	42000	ug/kg	5700	18150	50	8260B		10/21/2014	CJR	1
n-Propylbenzene	42000	ug/kg	1200	3750	50	8260B		10/21/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 600	ug/kg	600	1900	50	8260B		10/21/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 1150	ug/kg	1150	3700	50	8260B		10/21/2014	CJR	1
Tetrachloroethene	< 2450	ug/kg	2450	7850	50	8260B		10/21/2014	CJR	1
Toluene	88000	ug/kg	1000	3250	50	8260B		10/21/2014	CJR	1
1,2,4-Trichlorobenzene	< 3950	ug/kg	3950	12550	50	8260B		10/21/2014	CJR	2
1,2,3-Trichlorobenzene	< 6450	ug/kg	6450	20550	50	8260B		10/21/2014	CJR	1
1,1,1-Trichloroethane	< 1900	ug/kg	1900	6000	50	8260B		10/21/2014	CJR	1
1,1,2-Trichloroethane	< 1150	ug/kg	1150	3700	50	8260B		10/21/2014	CJR	1
Trichloroethene (TCE)	< 1400	ug/kg	1400	4400	50	8260B		10/21/2014	CJR	1
Trichlorofluoromethane	< 4300	ug/kg	4300	13650	50	8260B		10/21/2014	CJR	1
1,2,4-Trimethylbenzene	276000	ug/kg	1300	4050	50	8260B		10/21/2014	CJR	1

Project Name DAVE'S GAS STATION **Invoice #** E27888
Project #

Lab Code 5027888K
Sample ID G-12-2
Sample Matrix Soil
Sample Date 10/13/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3,5-Trimethylbenzene	81000	ug/kg	1300	4200	50	8260B		10/21/2014	CJR	1
Vinyl Chloride	< 1050	ug/kg	1050	3300	50	8260B		10/21/2014	CJR	1
m&p-Xylene	370000	ug/kg	3400	10800	50	8260B		10/21/2014	CJR	1
o-Xylene	114000	ug/kg	1550	4900	50	8260B		10/21/2014	CJR	1
SUR - Dibromofluoromethane	92	Rec %			50	8260B		10/21/2014	CJR	1
SUR - Toluene-d8	106	Rec %			50	8260B		10/21/2014	CJR	1
SUR - 4-Bromofluorobenzene	120	Rec %			50	8260B		10/21/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	96	Rec %			50	8260B		10/21/2014	CJR	1

Lab Code 5027888L
Sample ID G-13-1
Sample Matrix Soil
Sample Date 10/13/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	95.2	%			1	5021		10/20/2014	RKM	1
Inorganic										
Metals										
Lead, Total	3.13	mg/Kg	0.3	0.96	1	6010B		10/29/2014	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	< 25	ug/kg	7.9	25	1	GRO95/8021		10/22/2014	CJR	1
Ethylbenzene	< 25	ug/kg	7.7	25	1	GRO95/8021		10/22/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		10/22/2014	CJR	1
Naphthalene	26.3 "J"	ug/kg	22	70	1	GRO95/8021		10/22/2014	CJR	1
Toluene	39	ug/kg	8.4	27	1	GRO95/8021		10/22/2014	CJR	1
1,2,4-Trimethylbenzene	25.2 "J"	ug/kg	10	33	1	GRO95/8021		10/22/2014	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	9.3	30	1	GRO95/8021		10/22/2014	CJR	1
m&p-Xylene	< 50	ug/kg	16	50	1	GRO95/8021		10/22/2014	CJR	1
o-Xylene	30.7 "J"	ug/kg	10	32	1	GRO95/8021		10/22/2014	CJR	1

Lab Code 5027888M
Sample ID G-13-2
Sample Matrix Soil
Sample Date 10/13/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	91.3	%			1	5021		10/20/2014	RKM	1
Organic										
PVOC + Naphthalene										
Benzene	28.6	ug/kg	7.9	25	1	GRO95/8021		10/24/2014	CJR	1
Ethylbenzene	126	ug/kg	7.7	25	1	GRO95/8021		10/24/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		10/24/2014	CJR	1
Naphthalene	45 "J"	ug/kg	22	70	1	GRO95/8021		10/24/2014	CJR	1
Toluene	63	ug/kg	8.4	27	1	GRO95/8021		10/24/2014	CJR	1
1,2,4-Trimethylbenzene	211	ug/kg	10	33	1	GRO95/8021		10/24/2014	CJR	1
1,3,5-Trimethylbenzene	82	ug/kg	9.3	30	1	GRO95/8021		10/24/2014	CJR	1
m&p-Xylene	370	ug/kg	16	50	1	GRO95/8021		10/24/2014	CJR	1
o-Xylene	133	ug/kg	10	32	1	GRO95/8021		10/24/2014	CJR	1

Project Name DAVE'S GAS STATION **Invoice #** E27888
Project #

Lab Code 5027888N
Sample ID G-14-1
Sample Matrix Soil
Sample Date 10/13/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	90.5	%			1	5021		10/20/2014	RKM	1
Inorganic										
Metals										
Lead, Total	27.2	mg/Kg	0.3	0.96	1	6010B		10/29/2014	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	< 25	ug/kg	7.9	25	1	GRO95/8021		10/23/2014	CJR	1
Ethylbenzene	< 25	ug/kg	7.7	25	1	GRO95/8021		10/23/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		10/23/2014	CJR	1
Naphthalene	< 25	ug/kg	22	70	1	GRO95/8021		10/23/2014	CJR	1
Toluene	< 25	ug/kg	8.4	27	1	GRO95/8021		10/23/2014	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	10	33	1	GRO95/8021		10/23/2014	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	9.3	30	1	GRO95/8021		10/23/2014	CJR	1
m&p-Xylene	< 50	ug/kg	16	50	1	GRO95/8021		10/23/2014	CJR	1
o-Xylene	< 25	ug/kg	10	32	1	GRO95/8021		10/23/2014	CJR	1

Lab Code 5027888O
Sample ID G-14-2
Sample Matrix Soil
Sample Date 10/13/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	78.7	%			1	5021		10/20/2014	RKM	1
Organic										
PVOC + Naphthalene										
Benzene	< 25	ug/kg	7.9	25	1	GRO95/8021		10/23/2014	CJR	1
Ethylbenzene	< 25	ug/kg	7.7	25	1	GRO95/8021		10/23/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		10/23/2014	CJR	1
Naphthalene	< 25	ug/kg	22	70	1	GRO95/8021		10/23/2014	CJR	1
Toluene	< 25	ug/kg	8.4	27	1	GRO95/8021		10/23/2014	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	10	33	1	GRO95/8021		10/23/2014	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	9.3	30	1	GRO95/8021		10/23/2014	CJR	1
m&p-Xylene	< 50	ug/kg	16	50	1	GRO95/8021		10/23/2014	CJR	1
o-Xylene	< 25	ug/kg	10	32	1	GRO95/8021		10/23/2014	CJR	1

Project Name DAVE'S GAS STATION **Invoice #** E27888
Project #

Lab Code 5027888P
Sample ID G-15-1
Sample Matrix Soil
Sample Date 10/13/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	89.0	%			1	5021		10/20/2014	RKM	1
Inorganic										
Metals										
Lead, Total	83.8	mg/Kg	0.3	0.96	1	6010B		10/29/2014	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	< 25	ug/kg	7.9	25	1	GRO95/8021		10/23/2014	CJR	1
Ethylbenzene	< 25	ug/kg	7.7	25	1	GRO95/8021		10/23/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		10/23/2014	CJR	1
Naphthalene	44 "J"	ug/kg	22	70	1	GRO95/8021		10/23/2014	CJR	1
Toluene	36	ug/kg	8.4	27	1	GRO95/8021		10/23/2014	CJR	1
1,2,4-Trimethylbenzene	43	ug/kg	10	33	1	GRO95/8021		10/23/2014	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	9.3	30	1	GRO95/8021		10/23/2014	CJR	1
m&p-Xylene	57	ug/kg	16	50	1	GRO95/8021		10/23/2014	CJR	1
o-Xylene	41	ug/kg	10	32	1	GRO95/8021		10/23/2014	CJR	1

Lab Code 5027888Q
Sample ID G-15-2
Sample Matrix Soil
Sample Date 10/13/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	86.7	%			1	5021		10/20/2014	RKM	1
Organic										
PVOC + Naphthalene										
Benzene	< 25	ug/kg	7.9	25	1	GRO95/8021		10/23/2014	CJR	1
Ethylbenzene	< 25	ug/kg	7.7	25	1	GRO95/8021		10/23/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		10/23/2014	CJR	1
Naphthalene	36 "J"	ug/kg	22	70	1	GRO95/8021		10/23/2014	CJR	1
Toluene	32	ug/kg	8.4	27	1	GRO95/8021		10/23/2014	CJR	1
1,2,4-Trimethylbenzene	27.2 "J"	ug/kg	10	33	1	GRO95/8021		10/23/2014	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	9.3	30	1	GRO95/8021		10/23/2014	CJR	1
m&p-Xylene	< 50	ug/kg	16	50	1	GRO95/8021		10/23/2014	CJR	1
o-Xylene	26 "J"	ug/kg	10	32	1	GRO95/8021		10/23/2014	CJR	1

Project Name DAVE'S GAS STATION **Invoice #** E27888
Project #

Lab Code 5027888R
Sample ID G-16-1
Sample Matrix Soil
Sample Date 10/13/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	91.6	%			1	5021		10/20/2014	RKM	1
Inorganic										
Metals										
Lead, Total	13.8	mg/Kg	0.3	0.96	1	6010B		10/29/2014	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	420	ug/kg	79	250	10	GRO95/8021		10/22/2014	CJR	1
Ethylbenzene	410	ug/kg	77	250	10	GRO95/8021		10/22/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 250	ug/kg	81	260	10	GRO95/8021		10/22/2014	CJR	1
Naphthalene	1360	ug/kg	220	700	10	GRO95/8021		10/22/2014	CJR	1
Toluene	390	ug/kg	84	270	10	GRO95/8021		10/22/2014	CJR	1
1,2,4-Trimethylbenzene	12000	ug/kg	100	330	10	GRO95/8021		10/22/2014	CJR	1
1,3,5-Trimethylbenzene	10300	ug/kg	93	300	10	GRO95/8021		10/22/2014	CJR	1
m&p-Xylene	5200	ug/kg	160	500	10	GRO95/8021		10/22/2014	CJR	1
o-Xylene	2010	ug/kg	100	320	10	GRO95/8021		10/22/2014	CJR	1

Lab Code 5027888S
Sample ID G-16-2
Sample Matrix Soil
Sample Date 10/13/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	87.7	%			1	5021		10/20/2014	RKM	1
Organic										
PVOC + Naphthalene										
Benzene	7100	ug/kg	79	250	10	GRO95/8021		10/23/2014	CJR	1
Ethylbenzene	57000	ug/kg	77	250	10	GRO95/8021		10/23/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 250	ug/kg	81	260	10	GRO95/8021		10/23/2014	CJR	1
Naphthalene	18700	ug/kg	220	700	10	GRO95/8021		10/23/2014	CJR	1
Toluene	25600	ug/kg	84	270	10	GRO95/8021		10/23/2014	CJR	1
1,2,4-Trimethylbenzene	155000	ug/kg	100	330	10	GRO95/8021		10/23/2014	CJR	1
1,3,5-Trimethylbenzene	57000	ug/kg	93	300	10	GRO95/8021		10/23/2014	CJR	1
m&p-Xylene	183000	ug/kg	160	500	10	GRO95/8021		10/23/2014	CJR	1
o-Xylene	48000	ug/kg	100	320	10	GRO95/8021		10/23/2014	CJR	1

Project Name DAVE'S GAS STATION **Invoice #** E27888
Project #

Lab Code 5027888T
Sample ID TRIP BLANK
Sample Matrix Water
Sample Date 10/13/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		10/17/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		10/17/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		10/17/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		10/17/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		10/17/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		10/17/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		10/17/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		10/17/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		10/17/2014	CJR	1

Lab Code 5027888U
Sample ID G-1-W
Sample Matrix Water
Sample Date 10/13/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	1240	ug/l	24	77	100	8260B		10/21/2014	CJR	1
Ethylbenzene	1100	ug/l	55	170	100	8260B		10/21/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 23	ug/l	23	74	100	8260B		10/21/2014	CJR	1
Naphthalene	370 "J"	ug/l	170	550	100	8260B		10/21/2014	CJR	1
Toluene	5400	ug/l	69	220	100	8260B		10/21/2014	CJR	1
1,2,4-Trimethylbenzene	1490	ug/l	220	690	100	8260B		10/21/2014	CJR	1
1,3,5-Trimethylbenzene	520	ug/l	140	450	100	8260B		10/21/2014	CJR	1
m&p-Xylene	5200	ug/l	69	220	100	8260B		10/21/2014	CJR	1
o-Xylene	2020	ug/l	63	200	100	8260B		10/21/2014	CJR	1

Lab Code 5027888V
Sample ID G-2-W
Sample Matrix Water
Sample Date 10/13/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	1.84	ug/l	0.24	0.77	1	8260B		10/17/2014	CJR	1
Ethylbenzene	8.6	ug/l	0.55	1.7	1	8260B		10/17/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		10/17/2014	CJR	1
Naphthalene	4.3 "J"	ug/l	1.7	5.5	1	8260B		10/17/2014	CJR	1
Toluene	8.7	ug/l	0.69	2.2	1	8260B		10/17/2014	CJR	1
1,2,4-Trimethylbenzene	31.4	ug/l	2.2	6.9	1	8260B		10/17/2014	CJR	1
1,3,5-Trimethylbenzene	11.8	ug/l	1.4	4.5	1	8260B		10/17/2014	CJR	1
m&p-Xylene	40	ug/l	0.69	2.2	1	8260B		10/17/2014	CJR	1
o-Xylene	13.7	ug/l	0.63	2	1	8260B		10/17/2014	CJR	1

Project Name DAVE'S GAS STATION **Invoice #** E27888
Project #

Lab Code 5027888W
Sample ID G-3-W
Sample Matrix Water
Sample Date 10/13/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		10/17/2014	CJR	I
Ethylbenzene	2.58	ug/l	0.55	1.7	1	8260B		10/17/2014	CJR	I
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		10/17/2014	CJR	I
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		10/17/2014	CJR	I
Toluene	0.91 "J"	ug/l	0.69	2.2	1	8260B		10/17/2014	CJR	I
1,2,4-Trimethylbenzene	6.8 "J"	ug/l	2.2	6.9	1	8260B		10/17/2014	CJR	I
1,3,5-Trimethylbenzene	1.71 "J"	ug/l	1.4	4.5	1	8260B		10/17/2014	CJR	I
m&p-Xylene	6.9	ug/l	0.69	2.2	1	8260B		10/17/2014	CJR	I
o-Xylene	2.11	ug/l	0.63	2	1	8260B		10/17/2014	CJR	I

Lab Code 5027888X
Sample ID G-4-W
Sample Matrix Water
Sample Date 10/13/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	0.50 "J"	ug/l	0.24	0.77	1	8260B		10/17/2014	CJR	I
Ethylbenzene	1.94	ug/l	0.55	1.7	1	8260B		10/17/2014	CJR	I
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		10/17/2014	CJR	I
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		10/17/2014	CJR	I
Toluene	1.64 "J"	ug/l	0.69	2.2	1	8260B		10/17/2014	CJR	I
1,2,4-Trimethylbenzene	3.08 "J"	ug/l	2.2	6.9	1	8260B		10/17/2014	CJR	I
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		10/17/2014	CJR	I
m&p-Xylene	6.3	ug/l	0.69	2.2	1	8260B		10/17/2014	CJR	I
o-Xylene	3.15	ug/l	0.63	2	1	8260B		10/17/2014	CJR	I

Lab Code 5027888Y
Sample ID G-5-W
Sample Matrix Water
Sample Date 10/13/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		10/17/2014	CJR	I
Ethylbenzene	2.41	ug/l	0.55	1.7	1	8260B		10/17/2014	CJR	I
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		10/17/2014	CJR	I
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		10/17/2014	CJR	I
Toluene	4.0	ug/l	0.69	2.2	1	8260B		10/17/2014	CJR	I
1,2,4-Trimethylbenzene	4.1 "J"	ug/l	2.2	6.9	1	8260B		10/17/2014	CJR	I
1,3,5-Trimethylbenzene	1.46 "J"	ug/l	1.4	4.5	1	8260B		10/17/2014	CJR	I
m&p-Xylene	8.9	ug/l	0.69	2.2	1	8260B		10/17/2014	CJR	I
o-Xylene	3.5	ug/l	0.63	2	1	8260B		10/17/2014	CJR	I

Project Name DAVE'S GAS STATION **Invoice #** E27888
Project #

Lab Code 5027888Z
Sample ID G-6-W
Sample Matrix Water
Sample Date 10/13/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	4400	ug/l	27	85	100	GRO95/8021		10/22/2014	CJR	I
Ethylbenzene	1490	ug/l	82	260	100	GRO95/8021		10/22/2014	CJR	I
Methyl tert-butyl ether (MTBE)	< 37	ug/l	37	120	100	GRO95/8021		10/22/2014	CJR	I
Naphthalene	560	ug/l	120	380	100	GRO95/8021		10/22/2014	CJR	I
Toluene	13000	ug/l	80	260	100	GRO95/8021		10/22/2014	CJR	I
1,2,4-Trimethylbenzene	1510	ug/l	83	260	100	GRO95/8021		10/22/2014	CJR	I
1,3,5-Trimethylbenzene	510	ug/l	86	270	100	GRO95/8021		10/22/2014	CJR	I
m&p-Xylene	5500	ug/l	160	520	100	GRO95/8021		10/22/2014	CJR	I
o-Xylene	2440	ug/l	81	260	100	GRO95/8021		10/22/2014	CJR	I

Lab Code 527888AA
Sample ID G-7-W
Sample Matrix Water
Sample Date 10/13/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	0.35 "J"	ug/l	0.24	0.77	1	8260B		10/20/2014	CJR	I
Ethylbenzene	2.67	ug/l	0.55	1.7	1	8260B		10/20/2014	CJR	I
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		10/20/2014	CJR	I
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		10/20/2014	CJR	I
Toluene	5.8	ug/l	0.69	2.2	1	8260B		10/20/2014	CJR	I
1,2,4-Trimethylbenzene	8.1	ug/l	2.2	6.9	1	8260B		10/20/2014	CJR	I
1,3,5-Trimethylbenzene	2.79 "J"	ug/l	1.4	4.5	1	8260B		10/20/2014	CJR	I
m&p-Xylene	11.1	ug/l	0.69	2.2	1	8260B		10/20/2014	CJR	I
o-Xylene	4.0	ug/l	0.63	2	1	8260B		10/20/2014	CJR	I

Lab Code 527888BB
Sample ID G-8-W
Sample Matrix Water
Sample Date 10/13/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		10/20/2014	CJR	I
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		10/20/2014	CJR	I
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		10/20/2014	CJR	I
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		10/20/2014	CJR	I
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		10/20/2014	CJR	I
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		10/20/2014	CJR	I
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		10/20/2014	CJR	I
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		10/20/2014	CJR	I
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		10/20/2014	CJR	I

Project Name DAVE'S GAS STATION **Invoice #** E27888
Project #

Lab Code 527888CC
Sample ID G-9-W
Sample Matrix Water
Sample Date 10/13/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		10/20/2014	CJR	I
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		10/20/2014	CJR	I
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		10/20/2014	CJR	I
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		10/20/2014	CJR	I
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		10/20/2014	CJR	I
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		10/20/2014	CJR	I
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		10/20/2014	CJR	I
m&p-Xylene	2.05 "J"	ug/l	0.69	2.2	1	8260B		10/20/2014	CJR	I
o-Xylene	1.02 "J"	ug/l	0.63	2	1	8260B		10/20/2014	CJR	I

Lab Code 527888DD
Sample ID G-10-W
Sample Matrix Water
Sample Date 10/13/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		10/20/2014	CJR	I
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		10/20/2014	CJR	I
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		10/20/2014	CJR	I
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		10/20/2014	CJR	I
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		10/20/2014	CJR	I
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		10/20/2014	CJR	I
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		10/20/2014	CJR	I
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		10/20/2014	CJR	I
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		10/20/2014	CJR	I

Lab Code 527888EE
Sample ID G-11-W
Sample Matrix Water
Sample Date 10/13/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	380	ug/l	2.7	8.5	10	GRO95/8021		10/21/2014	CJR	I
Ethylbenzene	191	ug/l	8.2	26	10	GRO95/8021		10/21/2014	CJR	I
Methyl tert-butyl ether (MTBE)	< 3.7	ug/l	3.7	12	10	GRO95/8021		10/21/2014	CJR	I
Naphthalene	62	ug/l	12	38	10	GRO95/8021		10/21/2014	CJR	I
Toluene	46	ug/l	8	26	10	GRO95/8021		10/21/2014	CJR	I
1,2,4-Trimethylbenzene	161	ug/l	8.3	26	10	GRO95/8021		10/21/2014	CJR	I
1,3,5-Trimethylbenzene	43	ug/l	8.6	27	10	GRO95/8021		10/21/2014	CJR	I
m&p-Xylene	670	ug/l	16	52	10	GRO95/8021		10/21/2014	CJR	I
o-Xylene	296	ug/l	8.1	26	10	GRO95/8021		10/21/2014	CJR	I

Project Name DAVE'S GAS STATION **Invoice #** E27888
Project #

Lab Code 527888FF
Sample ID G-12-W
Sample Matrix Water
Sample Date 10/13/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	680	ug/l	24	77	100	8260B		10/21/2014	CJR	1
Ethylbenzene	810	ug/l	55	170	100	8260B		10/21/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 23	ug/l	23	74	100	8260B		10/21/2014	CJR	1
Naphthalene	350 "J"	ug/l	170	550	100	8260B		10/21/2014	CJR	1
Toluene	3800	ug/l	69	220	100	8260B		10/21/2014	CJR	1
1,2,4-Trimethylbenzene	2680	ug/l	220	690	100	8260B		10/21/2014	CJR	1
1,3,5-Trimethylbenzene	890	ug/l	140	450	100	8260B		10/21/2014	CJR	1
m&p-Xylene	6300	ug/l	69	220	100	8260B		10/21/2014	CJR	1
o-Xylene	2570	ug/l	63	200	100	8260B		10/21/2014	CJR	1

Lab Code 527888GG
Sample ID G-13-W
Sample Matrix Water
Sample Date 10/13/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	77	ug/l	24	77	100	8260B		10/21/2014	CJR	1
Ethylbenzene	910	ug/l	55	170	100	8260B		10/21/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 23	ug/l	23	74	100	8260B		10/21/2014	CJR	1
Naphthalene	314 "J"	ug/l	170	550	100	8260B		10/21/2014	CJR	1
Toluene	1030	ug/l	69	220	100	8260B		10/21/2014	CJR	1
1,2,4-Trimethylbenzene	1680	ug/l	220	690	100	8260B		10/21/2014	CJR	1
1,3,5-Trimethylbenzene	480	ug/l	140	450	100	8260B		10/21/2014	CJR	1
m&p-Xylene	3600	ug/l	69	220	100	8260B		10/21/2014	CJR	1
o-Xylene	1240	ug/l	63	200	100	8260B		10/21/2014	CJR	1

Lab Code 527888HH
Sample ID G-14-W
Sample Matrix Water
Sample Date 10/13/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.27	ug/l	0.27	0.85	1	GRO95/8021		10/21/2014	CJR	1
Ethylbenzene	1.4 "J"	ug/l	0.82	2.6	1	GRO95/8021		10/21/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.37	ug/l	0.37	1.2	1	GRO95/8021		10/21/2014	CJR	1
Naphthalene	< 1.2	ug/l	1.2	3.8	1	GRO95/8021		10/21/2014	CJR	1
Toluene	1.21 "J"	ug/l	0.8	2.6	1	GRO95/8021		10/21/2014	CJR	1
1,2,4-Trimethylbenzene	3.3	ug/l	0.83	2.6	1	GRO95/8021		10/21/2014	CJR	1
1,3,5-Trimethylbenzene	1.21 "J"	ug/l	0.86	2.7	1	GRO95/8021		10/21/2014	CJR	1
m&p-Xylene	4.7 "J"	ug/l	1.6	5.2	1	GRO95/8021		10/21/2014	CJR	1
o-Xylene	1.8 "J"	ug/l	0.81	2.6	1	GRO95/8021		10/21/2014	CJR	1

Project Name DAVE'S GAS STATION **Invoice #** E27888
Project #

Lab Code 527888II
Sample ID G-15-W
Sample Matrix Water
Sample Date 10/13/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.27	ug/l	0.27	0.85	1	GRO95/8021		10/21/2014	CJR	1
Ethylbenzene	< 0.82	ug/l	0.82	2.6	1	GRO95/8021		10/21/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.37	ug/l	0.37	1.2	1	GRO95/8021		10/21/2014	CJR	1
Naphthalene	< 1.2	ug/l	1.2	3.8	1	GRO95/8021		10/21/2014	CJR	1
Toluene	< 0.8	ug/l	0.8	2.6	1	GRO95/8021		10/21/2014	CJR	1
1,2,4-Trimethylbenzene	1.03 "J"	ug/l	0.83	2.6	1	GRO95/8021		10/21/2014	CJR	1
1,3,5-Trimethylbenzene	< 0.86	ug/l	0.86	2.7	1	GRO95/8021		10/21/2014	CJR	1
m&p-Xylene	< 1.6	ug/l	1.6	5.2	1	GRO95/8021		10/21/2014	CJR	1
o-Xylene	< 0.81	ug/l	0.81	2.6	1	GRO95/8021		10/21/2014	CJR	1

Lab Code 527888JJ
Sample ID G-16-W
Sample Matrix Water
Sample Date 10/13/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	203	ug/l	24	77	100	8260B		10/21/2014	CJR	1
Ethylbenzene	1620	ug/l	55	170	100	8260B		10/21/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 23	ug/l	23	74	100	8260B		10/21/2014	CJR	1
Naphthalene	450 "J"	ug/l	170	550	100	8260B		10/21/2014	CJR	1
Toluene	5200	ug/l	69	220	100	8260B		10/21/2014	CJR	1
1,2,4-Trimethylbenzene	2460	ug/l	220	690	100	8260B		10/21/2014	CJR	1
1,3,5-Trimethylbenzene	900	ug/l	140	450	100	8260B		10/21/2014	CJR	1
m&p-Xylene	6700	ug/l	69	220	100	8260B		10/21/2014	CJR	1
o-Xylene	2320	ug/l	63	200	100	8260B		10/21/2014	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.
2	Relative percent difference failed for laboratory spiked samples.
3	The matrix spike not within established limits.
8	Closing calibration standard not within established 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 .STODY RECORD

Synergy
Environmental Lab, Inc.

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

Chain # Nº 2751
Page 1 of 4

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): Dave's Gas Station

Reports To: Matt Lechner	Invoice To: Matt Lechner
Company	Company c/o METCO
Address P.O. Box 86	Address 709 Gillette St Ste 3
City State Zip Black River Falls, WI 54615	City State Zip La Crosse WI 54603
Phone (608) 633-6569	Phone (608) 781-8579
FAX	FAX 8593

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
502888A	Meth Blank	10/13	11:05				1		MeOH									X											
B	G-1-1		11:10		X		3	S	/None			X						X											
C	G-1-2		11:25				2											X											
D	G-2-1		11:30				3		/None			X						X											
E	G-2-2		11:50				2											X											
F	G-3-1		11:55				3		/None			X						X											
G	G-3-2		12:20				2											X											
H	G-6-1		1:10				3		/None			X						X											
I	G-6-2		1:15				2											X											
J	G-12-1		2:00				3		/None			X						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.
Use Rates
Agent Status

Sample Integrity - To be completed by receiving lab.
Method of Shipment: Pickup
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
	9:00 AM	10/15/14			

Received in Laboratory By: Time: 8:20 Date: 10/16/14

CHAIN OF CUSTODY RECORD

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

Chain # NE 2750
Page 2 of 4

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) E Dave
Project (Name / Location): Dave's Gas Station
Reports To: See Page 1 → Invoice 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
502708 K	G-12-2	10/13	3:05		X		3	S	MeOH/None
L	G-13-1		3:30				3		/None
M	G-13-2		3:35				2		
N	G-14-1		4:00				3		/None
O	G-14-2		4:05				2		
P	G-15-1		4:15				3		/None
Q	G-15-2		4:20				2		
R	G-16-1		4:40				3		/None
S	G-16-2		4:45				2		
T	Trip Blank						1		HCl

Analysis Requested

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)	B-RCRA METALS
		X						X				X	
		X						X					
								X					
		X						X					
								X					
		X						X					
								X					
		X						X					
								X					
								X					

Other Analysis
PID/FID

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: Driver
Temp. of Temp. Blank ___ °C On Ice X
Cooler seal intact upon receipt: Y Yes ___ No

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
E Dave	9:00AM	10/15/14			

Received in Laboratory By: [signature] Time: 8:20 Date: 10/16/14

CHAIN OF STODY RECORD

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

Chain # N2 276
Page 3 of 4

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): Dave's Gas Station
Reports To: See Page 1 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 96)	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
502788 U	G-1-W	10/13	11:15		X	N	3	GW	HCl									X						
V	G-2-W		11:40															X						
W	G-3-W		12:00															X						
X	G-4-W		12:20															X						
Y	G-5-W		1:00															X						
Z	G-6-W		1:20															X						
AA	G-7-W		1:40															X						
BB	G-8-W		2:00															X						
CC	G-9-W		2:15															X						
DD	G-10-W		2:30															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 X
Cooler seal intact upon receipt: X Yes ___ No

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
	9:00AM	10/15/14			

Received in Laboratory By: Time: 8:00 Date: 10/16/14

CHAIN OF STODY RECORD

Synergy
Environmental Lab, Inc.

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

Chain # NE 2760

Page 4 of 4

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): Dave's Gas Station

Reports To: See Page 1 → Invoice 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
S27888EE	G-11-W	10/13	2:50		X	N	3	GW	HCl
FF	G-12-W	↓	3:10		↓	↓	↓	↓	↓
GG	G-13-W		3:40						
HH	G-14-W		4:10						
II	G-15-W		4:30						
JJ	G-16-W	↓	4:50		↓	↓	↓	↓	↓

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						
								X						
								X						
								X						
								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 X
Cooler seal intact upon receipt: Y Yes ___ No

Relinquished By: (sign) | Time: 9:00 AM | Date: 10/15/14 | Received By: (sign) | Time | Date

Received in Laboratory By: | Time: | Date:

Synergy Environmental Lab,

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

MATT LECHNER
MATT LECHNER
PO BOX 86
BLACK RIVER FALLS, WI 54615

Report Date *15-Sep-15*

Project Name DAVE'S GAS STATION **Invoice #** E29579
Project #

Lab Code 5029579A
Sample ID MW-1-1
Sample Matrix Soil
Sample Date 8/28/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	91.6	%			1	5021		9/1/2015	MDK	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	360	mg/kg	18	58	10	GRO95/8021		9/11/2015	CJR	1
Benzene	0.089	mg/kg	0.014	0.046	1	GRO95/8021		9/4/2015	CJR	1
Ethylbenzene	0.205	mg/kg	0.014	0.045	1	GRO95/8021		9/4/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		9/4/2015	CJR	1
Naphthalene	1.38	mg/kg	0.0094	0.03	1	GRO95/8021		9/4/2015	CJR	1
Toluene	0.133	mg/kg	0.015	0.048	1	GRO95/8021		9/4/2015	CJR	1
1,2,4-Trimethylbenzene	14.9	mg/kg	0.011	0.036	1	GRO95/8021		9/4/2015	CJR	1
1,3,5-Trimethylbenzene	9.3	mg/kg	0.012	0.038	1	GRO95/8021		9/4/2015	CJR	1
m&p-Xylene	0.95	mg/kg	0.023	0.074	1	GRO95/8021		9/4/2015	CJR	1
o-Xylene	0.54	mg/kg	0.024	0.078	1	GRO95/8021		9/4/2015	CJR	1

Project Name DAVE'S GAS STATION **Invoice #** E29579
Project #

Lab Code 5029579B
Sample ID MW-1-2
Sample Matrix Soil
Sample Date 8/28/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	82.7	%			1	5021		9/1/2015	MDK	1
Inorganic										
Metals										
Lead, Total	1.57 "J"	mg/Kg	0.52	1.72	2	6010B		9/9/2015	CWT	1 49
TCLP Lead	1.3	mg/Kg	0.52	1.72	2	6010B		9/9/2015	CWT	1 49
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	430	mg/kg	18	58	10	GRO95/8021		9/11/2015	CJR	1
Benzene	1.4	mg/kg	0.014	0.046	1	GRO95/8021		9/4/2015	CJR	1
Ethylbenzene	7.0	mg/kg	0.014	0.045	1	GRO95/8021		9/4/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		9/4/2015	CJR	1
Naphthalene	2.58	mg/kg	0.0094	0.03	1	GRO95/8021		9/4/2015	CJR	1
Toluene	10.6	mg/kg	0.015	0.048	1	GRO95/8021		9/4/2015	CJR	1
1,2,4-Trimethylbenzene	18.3	mg/kg	0.011	0.036	1	GRO95/8021		9/4/2015	CJR	1
1,3,5-Trimethylbenzene	7.0	mg/kg	0.012	0.038	1	GRO95/8021		9/4/2015	CJR	1
m&p-Xylene	25.6	mg/kg	0.023	0.074	1	GRO95/8021		9/4/2015	CJR	1
o-Xylene	9.2	mg/kg	0.024	0.078	1	GRO95/8021		9/4/2015	CJR	1

Lab Code 5029579C
Sample ID MEOH BLANK
Sample Matrix Soil
Sample Date 8/28/2015

	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		9/10/2015	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.014	0.045	1	GRO95/8021		9/10/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		9/10/2015	CJR	1
Naphthalene	< 0.025	mg/kg	0.0094	0.03	1	GRO95/8021		9/10/2015	CJR	1
Toluene	< 0.025	mg/kg	0.015	0.048	1	GRO95/8021		9/10/2015	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		9/10/2015	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.012	0.038	1	GRO95/8021		9/10/2015	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.023	0.074	1	GRO95/8021		9/10/2015	CJR	1
o-Xylene	< 0.025	mg/kg	0.024	0.078	1	GRO95/8021		9/10/2015	CJR	1

Project Name DAVE'S GAS STATION **Invoice #** E29579
Project #

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

Code	*Comment*
1	Laboratory QC within limits.
49	Sample diluted to compensate for matrix interference.

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 STODY RECORD

Synergy

Environmental Lab, Inc.

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

Chain # NL 3047

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): Dave's Gas Station

Reports To: Matt Lechner	Invoice To: Matt Lechner
Company	Company c/o METCC
Address P.O. Box 96	Address 709 Gillette St, Ste 3
City State Zip Black River Falls, WI 54615	City State Zip La Crosse, WI 54603
Phone (608) 633-6569	Phone (608) 781-9579
FAX	FAX 8823

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	TCLP - Lead	PID/FID
502957-A	MW-1-1	8/28	12:30		X		2	S	HCl H		X							X							
B	MW-1-2	↓	12:35		X		5	S	↓ None		X	X						X					X		
C	Matt Blank	↓					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 METCC
UCC Rates
Agent Status

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
[signature]	4:30 PM	8/28/15			

Received in Laboratory By: [signature] Time: 8:00 Date: 9/1/15

Synergy Environmental Lab,

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

MATT LECHNER
MATT LECHNER
PO BOX 86
BLACK RIVER FALLS, WI 54615

Report Date *23-Nov-15*

Project Name DAVE'S GAS STATION **Invoice #** E29997
Project #

Lab Code 5029997A
Sample ID MW-5
Sample Matrix Water
Sample Date 11/4/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		11/10/2015	CWT	1
Iron, Dissolved	0.84	mg/l	0.02	0.7	1	200.7		11/10/2015	CWT	1
Manganese, Dissolved	192	ug/L	4.5	14.4	1	200.7		11/10/2015	CWT	1
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		11/9/2015	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		11/9/2015	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		11/9/2015	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		11/9/2015	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		11/9/2015	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		11/9/2015	CJR	1
n-Butylbenzene	1.91 "J"	ug/l	1	3.3	1	8260B		11/9/2015	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		11/9/2015	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		11/9/2015	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		11/9/2015	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		11/9/2015	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		11/9/2015	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		11/9/2015	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		11/9/2015	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		11/9/2015	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/9/2015	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		11/9/2015	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		11/9/2015	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		11/9/2015	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		11/9/2015	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		11/9/2015	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		11/9/2015	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		11/9/2015	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B		11/9/2015	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		11/9/2015	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		11/9/2015	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		11/9/2015	CJR	1

Project Name DAVE'S GAS STATION **Invoice #** E29997
Project #

Lab Code 5029997A
Sample ID MW-5
Sample Matrix Water
Sample Date 11/4/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		11/9/2015	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		11/9/2015	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		11/9/2015	CJR	1
Ethylbenzene	3.07	ug/l	0.71	2.3	1	8260B		11/9/2015	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		11/9/2015	CJR	1
Isopropylbenzene	1.15 "J"	ug/l	0.82	2.6	1	8260B		11/9/2015	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		11/9/2015	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		11/9/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		11/9/2015	CJR	1
Naphthalene	27.8	ug/l	1.6	5.2	1	8260B		11/9/2015	CJR	1
n-Propylbenzene	3.6	ug/l	0.77	2.4	1	8260B		11/9/2015	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		11/9/2015	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		11/9/2015	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		11/9/2015	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		11/9/2015	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		11/9/2015	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		11/9/2015	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		11/9/2015	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		11/9/2015	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		11/9/2015	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		11/9/2015	CJR	1
1,2,4-Trimethylbenzene	14.6	ug/l	1.6	5	1	8260B		11/9/2015	CJR	1
1,3,5-Trimethylbenzene	3.4 "J"	ug/l	1.5	4.8	1	8260B		11/9/2015	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		11/9/2015	CJR	1
m&p-Xylene	3.6 "J"	ug/l	2.2	6.9	1	8260B		11/9/2015	CJR	1
o-Xylene	1.14 "J"	ug/l	0.9	2.9	1	8260B		11/9/2015	CJR	1
SUR - 1,2-Dichloroethane-d4	96	REC %			1	8260B		11/9/2015	CJR	1
SUR - 4-Bromofluorobenzene	107	REC %			1	8260B		11/9/2015	CJR	1
SUR - Dibromofluoromethane	98	REC %			1	8260B		11/9/2015	CJR	1
SUR - Toluene-d8	93	REC %			1	8260B		11/9/2015	CJR	1
Wet Chemistry										
General										
Nitrite Plus Nitrate, Dissolved	0.265 "J"	mg/l	0.13	0.43	1	353.2		11/20/2015	MDK	1
Sulfate, Unfiltered	< 300	mg/l	300	1000	1000	300.0		11/18/2015	CWT	1 49

Project Name DAVE'S GAS STATION **Invoice #** E29997
Project #

Lab Code 5029997B
Sample ID MW-3
Sample Matrix Water
Sample Date 11/4/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		11/10/2015	CWT	1
Iron, Dissolved	0.29 "J"	mg/l	0.02	0.7	1	200.7		11/10/2015	CWT	1
Manganese, Dissolved	198	ug/L	4.5	14.4	1	200.7		11/10/2015	CWT	1
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		11/11/2015	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		11/11/2015	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		11/11/2015	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		11/11/2015	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		11/11/2015	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		11/11/2015	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		11/11/2015	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		11/11/2015	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		11/11/2015	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		11/11/2015	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		11/11/2015	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		11/11/2015	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		11/11/2015	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		11/11/2015	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		11/11/2015	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/11/2015	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		11/11/2015	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		11/11/2015	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		11/11/2015	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		11/11/2015	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		11/11/2015	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		11/11/2015	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		11/11/2015	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B		11/11/2015	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		11/11/2015	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		11/11/2015	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		11/11/2015	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		11/11/2015	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		11/11/2015	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		11/11/2015	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		11/11/2015	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		11/11/2015	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		11/11/2015	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		11/11/2015	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		11/11/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		11/11/2015	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		11/11/2015	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		11/11/2015	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		11/11/2015	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		11/11/2015	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		11/11/2015	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		11/11/2015	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		11/11/2015	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		11/11/2015	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		11/11/2015	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		11/11/2015	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		11/11/2015	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		11/11/2015	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		11/11/2015	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		11/11/2015	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		11/11/2015	CJR	1

Project Name DAVE'S GAS STATION **Invoice #** E29997
Project #

Lab Code 5029997B
Sample ID MW-3
Sample Matrix Water
Sample Date 11/4/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		11/11/2015	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		11/11/2015	CJR	1
SUR - Toluene-d8	113	REC %			1	8260B		11/11/2015	CJR	1
SUR - 1,2-Dichloroethane-d4	94	REC %			1	8260B		11/11/2015	CJR	1
SUR - 4-Bromofluorobenzene	110	REC %			1	8260B		11/11/2015	CJR	1
SUR - Dibromofluoromethane	98	REC %			1	8260B		11/11/2015	CJR	1
Wet Chemistry										
General										
Nitrite Plus Nitrate, Dissolved	0.750	mg/l	0.13	0.43	1	353.2		11/20/2015	MDK	1
Sulfate, Unfiltered	< 300	mg/l	300	1000	1000	300.0		11/18/2015	CWT	149

Project Name DAVE'S GAS STATION
Project #

Invoice # E29997

Lab Code 5029997C
Sample ID MW-4
Sample Matrix Water
Sample Date 11/4/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		11/10/2015	CWT	1
Iron, Dissolved	0.31 "J"	mg/l	0.02	0.7	1	200.7		11/10/2015	CWT	1
Manganese, Dissolved	116	ug/L	4.5	14.4	1	200.7		11/10/2015	CWT	1
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		11/9/2015	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		11/9/2015	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		11/9/2015	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		11/9/2015	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		11/9/2015	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		11/9/2015	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		11/9/2015	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		11/9/2015	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		11/9/2015	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		11/9/2015	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		11/9/2015	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		11/9/2015	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		11/9/2015	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		11/9/2015	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		11/9/2015	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/9/2015	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		11/9/2015	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		11/9/2015	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		11/9/2015	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		11/9/2015	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		11/9/2015	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		11/9/2015	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		11/9/2015	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B		11/9/2015	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		11/9/2015	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		11/9/2015	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		11/9/2015	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		11/9/2015	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		11/9/2015	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		11/9/2015	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		11/9/2015	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		11/9/2015	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		11/9/2015	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		11/9/2015	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		11/9/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		11/9/2015	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		11/9/2015	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		11/9/2015	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		11/9/2015	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		11/9/2015	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		11/9/2015	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		11/9/2015	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		11/9/2015	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		11/9/2015	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		11/9/2015	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		11/9/2015	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		11/9/2015	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		11/9/2015	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		11/9/2015	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		11/9/2015	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		11/9/2015	CJR	1

Project Name DAVE'S GAS STATION **Invoice #** E29997
Project #

Lab Code 5029997C
Sample ID MW-4
Sample Matrix Water
Sample Date 11/4/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		11/9/2015	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		11/9/2015	CJR	1
SUR - Dibromofluoromethane	99	REC %			1	8260B		11/9/2015	CJR	1
SUR - 4-Bromofluorobenzene	107	REC %			1	8260B		11/9/2015	CJR	1
SUR - Toluene-d8	95	REC %			1	8260B		11/9/2015	CJR	1
SUR - 1,2-Dichloroethane-d4	85	REC %			1	8260B		11/9/2015	CJR	1
Wet Chemistry										
General										
Nitrite Plus Nitrate, Dissolved	0.442	mg/l	0.13	0.43	1	353.2		11/20/2015	MDK	1
Sulfate, Unfiltered	< 300	mg/l	300	1000	1000	300.0		11/18/2015	CWT	149

Project Name DAVE'S GAS STATION **Invoice #** E29997
Project #

Lab Code 5029997D
Sample ID MW-2
Sample Matrix Water
Sample Date 11/4/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	1.5	ug/L	0.7	2.5	1	7421		11/10/2015	CWT	1
Iron, Dissolved	0.33 "J"	mg/l	0.02	0.7	1	200.7		11/10/2015	CWT	1
Manganese, Dissolved	64.7	ug/L	4.5	14.4	1	200.7		11/10/2015	CWT	1
Organic										
VOC's										
Benzene	7.7	ug/l	0.44	1.4	1	8260B		11/9/2015	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		11/9/2015	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		11/9/2015	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		11/9/2015	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		11/9/2015	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		11/9/2015	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		11/9/2015	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		11/9/2015	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		11/9/2015	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		11/9/2015	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		11/9/2015	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		11/9/2015	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		11/9/2015	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		11/9/2015	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		11/9/2015	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/9/2015	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		11/9/2015	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		11/9/2015	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		11/9/2015	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		11/9/2015	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		11/9/2015	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		11/9/2015	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		11/9/2015	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B		11/9/2015	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		11/9/2015	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		11/9/2015	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		11/9/2015	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		11/9/2015	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		11/9/2015	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		11/9/2015	CJR	1
Ethylbenzene	1.8 "J"	ug/l	0.71	2.3	1	8260B		11/9/2015	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		11/9/2015	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		11/9/2015	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		11/9/2015	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		11/9/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		11/9/2015	CJR	1
Naphthalene	2.3 "J"	ug/l	1.6	5.2	1	8260B		11/9/2015	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		11/9/2015	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		11/9/2015	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		11/9/2015	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		11/9/2015	CJR	1
Toluene	0.49 "J"	ug/l	0.44	1.4	1	8260B		11/9/2015	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		11/9/2015	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		11/9/2015	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		11/9/2015	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		11/9/2015	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		11/9/2015	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		11/9/2015	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		11/9/2015	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		11/9/2015	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		11/9/2015	CJR	1

Project Name DAVE'S GAS STATION **Invoice #** E29997
Project #

Lab Code 5029997D
Sample ID MW-2
Sample Matrix Water
Sample Date 11/4/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
m&p-Xylene	3.2 "J"	ug/l	2.2	6.9	1	8260B		11/9/2015	CJR	1
o-Xylene	1.14 "J"	ug/l	0.9	2.9	1	8260B		11/9/2015	CJR	1
SUR - 1,2-Dichloroethane-d4	92	REC %			1	8260B		11/9/2015	CJR	1
SUR - 4-Bromofluorobenzene	104	REC %			1	8260B		11/9/2015	CJR	1
SUR - Dibromofluoromethane	101	REC %			1	8260B		11/9/2015	CJR	1
SUR - Toluene-d8	99	REC %			1	8260B		11/9/2015	CJR	1
Wet Chemistry										
General										
Nitrite Plus Nitrate, Dissolved	2.56 "J"	mg/l	0.13	0.43	1	353.2		11/20/2015	MDK	1
Sulfate, Unfiltered	< 300	mg/l	300	1000	1000	300.0		11/18/2015	CWT	1 49

Project Name DAVE'S GAS STATION **Invoice #** E29997
Project #

Lab Code 5029997E
Sample ID MW-1
Sample Matrix Water
Sample Date 11/4/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	38.5	ug/L	1.4	5	2	7421		11/10/2015	CWT	I
Iron, Dissolved	8.96	mg/l	0.02	0.7	1	200.7		11/10/2015	CWT	I
Manganese, Dissolved	318	ug/L	4.5	14.4	1	200.7		11/10/2015	CWT	I
Organic										
VOC's										
Benzene	610	ug/l	44	140	100	8260B		11/12/2015	CJR	I
Bromobenzene	< 48	ug/l	48	150	100	8260B		11/12/2015	CJR	I
Bromodichloromethane	< 46	ug/l	46	150	100	8260B		11/12/2015	CJR	I
Bromoform	< 46	ug/l	46	150	100	8260B		11/12/2015	CJR	I
tert-Butylbenzene	< 110	ug/l	110	340	100	8260B		11/12/2015	CJR	I
sec-Butylbenzene	< 120	ug/l	120	380	100	8260B		11/12/2015	CJR	I
n-Butylbenzene	380	ug/l	100	330	100	8260B		11/12/2015	CJR	I
Carbon Tetrachloride	< 51	ug/l	51	160	100	8260B		11/12/2015	CJR	I
Chlorobenzene	< 46	ug/l	46	140	100	8260B		11/12/2015	CJR	I
Chloroethane	< 65	ug/l	65	210	100	8260B		11/12/2015	CJR	I
Chloroform	< 43	ug/l	43	140	100	8260B		11/12/2015	CJR	I
Chloromethane	< 190	ug/l	190	600	100	8260B		11/12/2015	CJR	I
2-Chlorotoluene	< 40	ug/l	40	130	100	8260B		11/12/2015	CJR	I
4-Chlorotoluene	< 63	ug/l	63	200	100	8260B		11/12/2015	CJR	I
1,2-Dibromo-3-chloropropane	< 140	ug/l	140	450	100	8260B		11/12/2015	CJR	I
Dibromochloromethane	< 45	ug/l	45	140	100	8260B		11/12/2015	CJR	I
1,4-Dichlorobenzene	< 49	ug/l	49	160	100	8260B		11/12/2015	CJR	I
1,3-Dichlorobenzene	< 52	ug/l	52	160	100	8260B		11/12/2015	CJR	I
1,2-Dichlorobenzene	< 46	ug/l	46	150	100	8260B		11/12/2015	CJR	I
Dichlorodifluoromethane	< 87	ug/l	87	280	100	8260B		11/12/2015	CJR	I
1,2-Dichloroethane	< 48	ug/l	48	150	100	8260B		11/12/2015	CJR	I
1,1-Dichloroethane	< 110	ug/l	110	360	100	8260B		11/12/2015	CJR	I
1,1-Dichloroethene	< 65	ug/l	65	210	100	8260B		11/12/2015	CJR	I
cis-1,2-Dichloroethene	< 45	ug/l	45	140	100	8260B		11/12/2015	CJR	I
trans-1,2-Dichloroethene	< 54	ug/l	54	170	100	8260B		11/12/2015	CJR	I
1,2-Dichloropropane	< 43	ug/l	43	137	100	8260B		11/12/2015	CJR	I
2,2-Dichloropropane	< 310	ug/l	310	980	100	8260B		11/12/2015	CJR	I
1,3-Dichloropropane	< 42	ug/l	42	130	100	8260B		11/12/2015	CJR	I
Di-isopropyl ether	< 44	ug/l	44	140	100	8260B		11/12/2015	CJR	I
EDB (1,2-Dibromoethane)	< 63	ug/l	63	200	100	8260B		11/12/2015	CJR	I
Ethylbenzene	950	ug/l	71	230	100	8260B		11/12/2015	CJR	I
Hexachlorobutadiene	< 220	ug/l	220	710	100	8260B		11/12/2015	CJR	I
Isopropylbenzene	90 "J"	ug/l	82	260	100	8260B		11/12/2015	CJR	I
p-Isopropyltoluene	< 110	ug/l	110	350	100	8260B		11/12/2015	CJR	I
Methylene chloride	< 130	ug/l	130	420	100	8260B		11/12/2015	CJR	I
Methyl tert-butyl ether (MTBE)	< 110	ug/l	110	370	100	8260B		11/12/2015	CJR	I
Naphthalene	370 "J"	ug/l	160	520	100	8260B		11/12/2015	CJR	I
n-Propylbenzene	350	ug/l	77	240	100	8260B		11/12/2015	CJR	I
1,1,2,2-Tetrachloroethane	< 52	ug/l	52	170	100	8260B		11/12/2015	CJR	I
1,1,1,2-Tetrachloroethane	< 48	ug/l	48	150	100	8260B		11/12/2015	CJR	I
Tetrachloroethene	< 49	ug/l	49	150	100	8260B		11/12/2015	CJR	I
Toluene	3020	ug/l	44	140	100	8260B		11/12/2015	CJR	I
1,2,4-Trichlorobenzene	< 170	ug/l	170	560	100	8260B		11/12/2015	CJR	I
1,2,3-Trichlorobenzene	< 270	ug/l	270	860	100	8260B		11/12/2015	CJR	I
1,1,1-Trichloroethane	< 84	ug/l	84	270	100	8260B		11/12/2015	CJR	I
1,1,2-Trichloroethane	< 48	ug/l	48	152	100	8260B		11/12/2015	CJR	I
Trichloroethene (TCE)	< 47	ug/l	47	150	100	8260B		11/12/2015	CJR	I
Trichlorofluoromethane	< 87	ug/l	87	280	100	8260B		11/12/2015	CJR	I
1,2,4-Trimethylbenzene	3200	ug/l	160	500	100	8260B		11/12/2015	CJR	I
1,3,5-Trimethylbenzene	1120	ug/l	150	480	100	8260B		11/12/2015	CJR	I
Vinyl Chloride	< 17	ug/l	17	54	100	8260B		11/12/2015	CJR	I

Project Name DAVE'S GAS STATION **Invoice #** E29997
Project #

Lab Code 5029997E
Sample ID MW-1
Sample Matrix Water
Sample Date 11/4/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
m&p-Xylene	4100	ug/l	220	690	100	8260B		11/12/2015	CJR	1
o-Xylene	1440	ug/l	90	290	100	8260B		11/12/2015	CJR	1
SUR - 1,2-Dichloroethane-d4	92	REC %			100	8260B		11/12/2015	CJR	1
SUR - Toluene-d8	113	REC %			100	8260B		11/12/2015	CJR	1
SUR - 4-Bromofluorobenzene	111	REC %			100	8260B		11/12/2015	CJR	1
SUR - Dibromofluoromethane	101	REC %			100	8260B		11/12/2015	CJR	1
Wet Chemistry										
General										
Nitrite Plus Nitrate, Dissolved	0.395 "J"	mg/l	0.13	0.43	1	353.2		11/20/2015	MDK	1
Sulfate, Unfiltered	1510	mg/l	300	1000	1000	300.0		11/18/2015	CWT	149

Project Name DAVE'S GAS STATION **Invoice #** E29997

Project #

Lab Code 5029997F
Sample ID TB
Sample Matrix Water
Sample Date 11/4/2015

	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		11/9/2015	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		11/9/2015	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		11/9/2015	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		11/9/2015	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		11/9/2015	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		11/9/2015	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		11/9/2015	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		11/9/2015	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		11/9/2015	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		11/9/2015	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		11/9/2015	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		11/9/2015	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		11/9/2015	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		11/9/2015	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		11/9/2015	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/9/2015	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		11/9/2015	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		11/9/2015	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		11/9/2015	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		11/9/2015	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		11/9/2015	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		11/9/2015	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		11/9/2015	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B		11/9/2015	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		11/9/2015	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		11/9/2015	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		11/9/2015	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		11/9/2015	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		11/9/2015	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		11/9/2015	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		11/9/2015	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		11/9/2015	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		11/9/2015	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		11/9/2015	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		11/9/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		11/9/2015	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		11/9/2015	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		11/9/2015	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		11/9/2015	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		11/9/2015	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		11/9/2015	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		11/9/2015	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		11/9/2015	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		11/9/2015	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		11/9/2015	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		11/9/2015	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		11/9/2015	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		11/9/2015	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		11/9/2015	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		11/9/2015	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		11/9/2015	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		11/9/2015	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		11/9/2015	CJR	1
SUR - Toluene-d8	99	REC %			1	8260B		11/9/2015	CJR	1
SUR - 1,2-Dichloroethane-d4	85	REC %			1	8260B		11/9/2015	CJR	1
SUR - 4-Bromofluorobenzene	106	REC %			1	8260B		11/9/2015	CJR	1
SUR - Dibromofluoromethane	97	REC %			1	8260B		11/9/2015	CJR	1

Project Name DAVE'S GAS STATION **Invoice #** E29997
Project #

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

Code	*Comment*
1	Laboratory QC within limits.
49	Sample diluted to compensate for matrix interference.

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 # № 308

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) Jon Jer[illegible]

Project (Name / Location): Daves Gas Station

Reports To: Matt Lechner	Invoice To: M. Lechner
Company	Company: c/o METCO
Address: [illegible] Box 86	Address: 709 Gillette St, Ste. 3
City State Zip: Black River Falls, WI 54615	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 (Dissolved)	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 524.2)	VOC (EPA 8260)	8-RCRA METALS	Dissolved Iron + Manganese						PID/FID
5029997A	MW-5	11-4	830			Y	6	GW	HCL, H2SO4, HNO3, none				X						X			X		X						
B	MW-3	↓	900			↓	↓	↓	↓				X						X			X		X						
C	MW-4	↓	945			↓	↓	↓	↓				X						X			X		X						
D	MW-2	↓	1030			↓	↓	↓	↓				X						X			X		X						
E	MW-1	↓	1115			↓	↓	↓	↓				X						X			X		X						
F	TB								HCL													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)
[illegible] rates apply + Agent status

Sample Integrity - To be completed by receiving lab.
Method of Shipment: [illegible]
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
Jon Jer[illegible]	8:00	11-5-15			

Received in Laboratory By: [signature] Time: 8:00 Date: 11/6/15

Synergy Environmental Lab,

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

MATT LECHNER
MATT LECHNER
PO BOX 86
BLACK RIVER FALLS, WI 54615

Report Date *18-Feb-16*

Project Name DAVE'S GAS STATION **Invoice #** E30468
Project #

Lab Code 5030468A
Sample ID MW-3
Sample Matrix Water
Sample Date 2/9/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	0.8 "J"	ug/L	0.7	2.5	1	7421		2/12/2016	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.46	ug/l	0.46	1.5	1	GRO95/8021		2/12/2016	CJR	1
Ethylbenzene	< 0.73	ug/l	0.73	2.3	1	GRO95/8021		2/12/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.49	ug/l	0.49	1.6	1	GRO95/8021		2/12/2016	CJR	1
Naphthalene	< 2.6	ug/l	2.6	8.3	1	GRO95/8021		2/12/2016	CJR	1
Toluene	< 0.39	ug/l	0.39	1.2	1	GRO95/8021		2/12/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.68	ug/l	0.68	2.2	1	GRO95/8021		2/12/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.83	ug/l	0.83	2.6	1	GRO95/8021		2/12/2016	CJR	1
m&p-Xylene	< 1.4	ug/l	1.4	4.4	1	GRO95/8021		2/12/2016	CJR	1
o-Xylene	< 0.66	ug/l	0.66	2.1	1	GRO95/8021		2/12/2016	CJR	1

Project Name DAVE'S GAS STATION
Project #

Invoice # E30468

Lab Code 5030468B
Sample ID MW-4
Sample Matrix Water
Sample Date 2/9/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		2/12/2016	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.46	ug/l	0.46	1.5	1	GRO95/8021		2/12/2016	CJR	1
Ethylbenzene	< 0.73	ug/l	0.73	2.3	1	GRO95/8021		2/12/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.49	ug/l	0.49	1.6	1	GRO95/8021		2/12/2016	CJR	1
Naphthalene	< 2.6	ug/l	2.6	8.3	1	GRO95/8021		2/12/2016	CJR	1
Toluene	< 0.39	ug/l	0.39	1.2	1	GRO95/8021		2/12/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.68	ug/l	0.68	2.2	1	GRO95/8021		2/12/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.83	ug/l	0.83	2.6	1	GRO95/8021		2/12/2016	CJR	1
m&p-Xylene	< 1.4	ug/l	1.4	4.4	1	GRO95/8021		2/12/2016	CJR	1
o-Xylene	< 0.66	ug/l	0.66	2.1	1	GRO95/8021		2/12/2016	CJR	1

Lab Code 5030468C
Sample ID MW-5
Sample Matrix Water
Sample Date 2/9/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		2/12/2016	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.46	ug/l	0.46	1.5	1	GRO95/8021		2/12/2016	CJR	1
Ethylbenzene	< 0.73	ug/l	0.73	2.3	1	GRO95/8021		2/12/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.49	ug/l	0.49	1.6	1	GRO95/8021		2/12/2016	CJR	1
Naphthalene	< 2.6	ug/l	2.6	8.3	1	GRO95/8021		2/12/2016	CJR	1
Toluene	< 0.39	ug/l	0.39	1.2	1	GRO95/8021		2/12/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.68	ug/l	0.68	2.2	1	GRO95/8021		2/12/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.83	ug/l	0.83	2.6	1	GRO95/8021		2/12/2016	CJR	1
m&p-Xylene	< 1.4	ug/l	1.4	4.4	1	GRO95/8021		2/12/2016	CJR	1
o-Xylene	< 0.66	ug/l	0.66	2.1	1	GRO95/8021		2/12/2016	CJR	1

Project Name DAVE'S GAS STATION **Invoice #** E30468
Project #

Lab Code 5030468D
Sample ID MW-2
Sample Matrix Water
Sample Date 2/9/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	3.9	ug/L	0.7	2.5	1	7421		2/16/2016	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.46	ug/l	0.46	1.5	1	GRO95/8021		2/12/2016	CJR	1
Ethylbenzene	< 0.73	ug/l	0.73	2.3	1	GRO95/8021		2/12/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.49	ug/l	0.49	1.6	1	GRO95/8021		2/12/2016	CJR	1
Naphthalene	< 2.6	ug/l	2.6	8.3	1	GRO95/8021		2/12/2016	CJR	1
Toluene	< 0.39	ug/l	0.39	1.2	1	GRO95/8021		2/12/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.68	ug/l	0.68	2.2	1	GRO95/8021		2/12/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.83	ug/l	0.83	2.6	1	GRO95/8021		2/12/2016	CJR	1
m&p-Xylene	< 1.4	ug/l	1.4	4.4	1	GRO95/8021		2/12/2016	CJR	1
o-Xylene	< 0.66	ug/l	0.66	2.1	1	GRO95/8021		2/12/2016	CJR	1

Lab Code 5030468E
Sample ID MW-1
Sample Matrix Water
Sample Date 2/9/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	10.6	ug/L	0.7	2.5	1	7421		2/16/2016	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	200	ug/l	23	75	50	GRO95/8021		2/13/2016	CJR	1
Ethylbenzene	1350	ug/l	36.5	115	50	GRO95/8021		2/13/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 24.5	ug/l	24.5	80	50	GRO95/8021		2/13/2016	CJR	1
Naphthalene	1000	ug/l	130	415	50	GRO95/8021		2/13/2016	CJR	1
Toluene	1580	ug/l	19.5	60	50	GRO95/8021		2/13/2016	CJR	1
1,2,4-Trimethylbenzene	4000	ug/l	34	110	50	GRO95/8021		2/13/2016	CJR	1
1,3,5-Trimethylbenzene	1350	ug/l	41.5	130	50	GRO95/8021		2/13/2016	CJR	1
m&p-Xylene	6200	ug/l	70	220	50	GRO95/8021		2/13/2016	CJR	1
o-Xylene	2210	ug/l	33	105	50	GRO95/8021		2/13/2016	CJR	1

Lab Code 5030468F
Sample ID TB
Sample Matrix Water
Sample Date 2/9/2016

	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		2/12/2016	CJR	1
Ethylbenzene	< 0.73	ug/l	0.73	2.3	1	GRO95/8021		2/12/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.49	ug/l	0.49	1.6	1	GRO95/8021		2/12/2016	CJR	1
Naphthalene	< 2.6	ug/l	2.6	8.3	1	GRO95/8021		2/12/2016	CJR	1
Toluene	< 0.39	ug/l	0.39	1.2	1	GRO95/8021		2/12/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.68	ug/l	0.68	2.2	1	GRO95/8021		2/12/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.83	ug/l	0.83	2.6	1	GRO95/8021		2/12/2016	CJR	1
m&p-Xylene	< 1.4	ug/l	1.4	4.4	1	GRO95/8021		2/12/2016	CJR	1
o-Xylene	< 0.66	ug/l	0.66	2.1	1	GRO95/8021		2/12/2016	CJR	1

Project Name DAVE'S GAS STATION **Invoice #** E30468
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 STODY RECORD

Synergy

Environmental Lab, Inc.

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

Chain # № 2867

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): Jon Quam
Project (Name / Location): Daves Gas Station / Merrillan

Reports To: Matt Lechner	Invoice To: M. Lechner
Company	Company c/o METCO
Address P.O. Box 86	Address 709 Gillette St, Ste. 3
City State Zip Black River Falls, WI 54615	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
5030468A	MW-3	2-9	1050			Y	4	GW	HCL, HNO3
B	MW-4		1025						
C	MW-5		1050						
D	MW-2		1115						
E	MW-1		1140						
F	TB						1		HCL

Analysis Requested

DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD (D 3559 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						X						
		X						X						
		X						X						
		X						X						
		X						X						
								X						

Other Analysis

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: Y
Cooler seal intact upon receipt: X Yes ___ No

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
Jon Quam	9:00 AM	2-10-16			

Received in Laboratory By: [signature] Time: 8:00 Date: 2/11/16

APPENDIX C/ WELL AND BOREHOLE DOCUMENTATION

State of Wisconsin
Department of Natural Resources

GROUNDWATER MONITORING WELL INFORMATION FORM

Chapter 281 and 289, Wis. Stats.
Form 4400-89 Rev. 7-98

Facility Name	Facility ID Number	License, Permit or Monitoring No.	Date	Completed By (Name and Firm)
Dave's Gas Station (Former)			4/26/2016	Jon Jensen/METCO

WI Unique Well No	Well Name	DNR Well ID Number	Well Location	Dir. N/E	Dir. S/W	Date Established	Well Casing Diam.	Well Casing Type	Elevations Top of Well Casing	Elevations Ground Surface	Reference MSL (√)	Reference Site Datum (√)	Depths Screen Top	Depths Initial Groundwater	Depths Well Depth	Screen Length	Well Type	Well Status	Enf. Stds.	Grad-ient	Distance to Waste
			240513.36	X																	
VN736	MW-1		385698.24	X		8/28/2015	2	P	937.03	937.5	X		3	4.91	13	10	11/mw	A	X		
			240448.87	X																	
VN735	MW-2		385701.95	X		8/28/2015	2	P	936.63	937.12	X		3	4.55	13	10	11/mw	A	X	D	61
			240478.94	X																	
VN734	MW-3		385626.67	X		8/28/2015	2	P	936.72	937.01	X		3	5.05	13	10	11/mw	A	X	S	78
			240479.7	X																	
VN733	MW-4		385758.58	X		8/28/2015	2	P	936.09	936.64	X		3	4.91	13	10	11/mw	A	X	S	69
			240563.84	X																	
VN737	MW-5		385696.36	X		8/28/2015	2	P	937.76	938.19	X		3	5.86	13	10	11/mw	A	X	U	11

Location Coordinates Are:
☐ State Plane Coordinate ☒ Local Grid System
☐ Northern
☐ Central
☐ Southern

Grid Origin Location: (Check if estimated: ☐)

Lat. 44 ° 27 ' 14 " Long. 90 ° 50 ' 36 " or

St. Plane _____ ft. N. _____ ft. E. S/C/N Zone

Remarks:

Completion of this form is mandatory under s. NR 507.14 and NR 110.25 Wis. Adm. Code. Failure to file this form may result in forfeiture of not less then $10 nor more than $5,000 for each day of violation. Personally identifiable information provided is intended to be used by the Department for the purposes related to the waste management program.

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: Form Daves Gas Station	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.: VN736 / DNR Well ID No.: ___
Facility ID: _____	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed: 2/28/2015 (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: Plant Craig / GroundSource
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 2.5 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 135 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 2.04 in.

1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: ___ in.
b. Length: ___ 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. Badger 40/60
b. Volume added _____ ft^3
8. Filter pack material: Manufacturer, product name & mesh size
a. Badger 20/40
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: GroundSource

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: Form Daves Gas Station	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.: VN735 / DNR Well ID No.
Facility ID	St. Plane ____ ft. N, ____ ft. E. S/C/N	Date Well Installed: 8/28/2015 (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: Plant Craig / 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 ___2.5___ 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 ___2.04___ in.

1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: ___ in.
b. Length: ___ 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. Badger 40/60
b. Volume added _____ ft^3
8. Filter pack material: Manufacturer, product name & mesh size
a. Badger 20/40
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: Craig Plant | Firm: 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: Farm Daves Gas Station	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 St. Plane _____ ft N, _____ ft E. S/C/N	Wis. Unique Well No.: VN734 / DNR Well ID No.: ____
Facility ID: _____		Date Well Installed: 8/28/2015 (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: Plant Craig / 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 ___ 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 __ 2.5 ft.

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

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

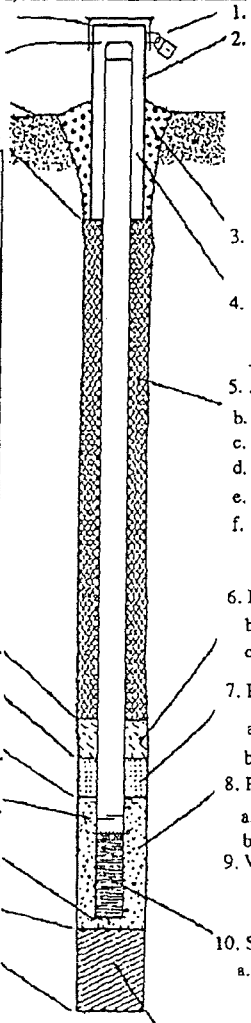
J. Filter pack, bottom _____ ft. MSL or __ 13.5 ft.

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 2.04 in.



1. Cap and lock? ☒ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: ___ in.
b. Length: ___ 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. Badger 40/60
b. Volume added _____ ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. Badger 20/40
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: Craig Plant | Firm: 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: Form Daves Gas Station	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.: VN733 / DNR Well ID No.: ____
Facility ID: _____	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed: 8/28/2015 (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: Plant Craig / 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

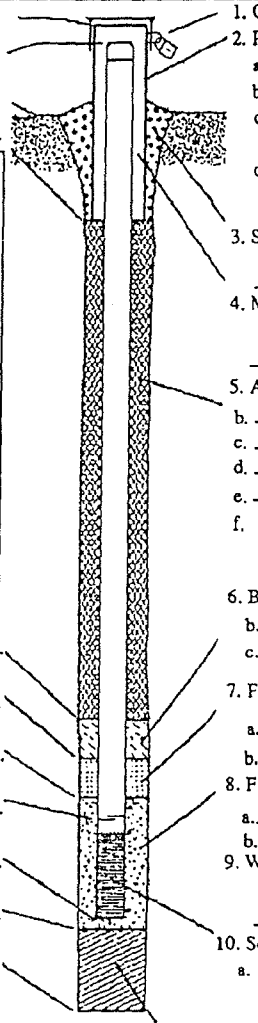
14. Drilling method used: Rotary ☒ 50 / Hollow Stem Auger ☐ 41 / Other ☐ ____ (_____)

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 __2.5__ 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 __2.04__ in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: ___ in.
b. Length: ___ 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. Badger 40/60
b. Volume added _____ ft^3
8. Filter pack material: Manufacturer, product name & mesh size
a. Badger 20/40
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: Craig Plant | Firm: 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: Form Daves Gas Station	Local Grid Location of Well: _____ ft. ☐N. ☐S. _____ ft. ☐E. ☐W.	Well Name: MW-5
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ___ ° ___ ' ___ " Long. ___ ° ___ ' ___ " or	Wis. Unique Well No.: VN737 / DNR Well ID No.: ____
Facility ID: ____	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed: 3/28/2015 (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: Plant Craig / 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 ___2.5___ 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 ___2.04___ in.

1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: ___ in.
b. Length: ___ 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. Badger 40/60
b. Volume added _____ ft^3
8. Filter pack material: Manufacturer, product name & mesh size
a. Badger 20/40
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: Craig | Firm: 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
Dave's Gas Station	JACKSON	MW-1

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well ID Number
	27	VN736	

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 25 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 8.9 gal.

7. Volume of water removed from well 35 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. 4.91 ft.	5 ft.
Date	b. 08 / 28 / 2015 (m m d d y y y y)	8/28/2015 (m m d d y y y y)
Time	c. 01 : 35 ☐ a.m. X p.m.	02 : 00 ☐ a.m. X p.m.
12. Sediment in well bottom	____ inches	____ inches
13. Water clarity	Clear ☐ 10 Turbid X 15 (Describe) Light Gray	Clear X 20 Turbid ☐ 25 (Describe) Clear
	Low 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: Matt Last Name: Lechner
Facility/Firm: Dave's Gas Station
Street: P.O. Box 86
City/State/Zip: Black River Falls WI 54615-

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: Dillon J Plamann
Print Name: Dillon Plamann
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
Dave's Gas Station	JACKSON	MW-2

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well ID Number
	27	VN735	

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 29 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 9.3 gal.

7. Volume of water removed from well 45 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. 4.55 ft.	6.25 ft.
Date	b. 08 / 28 / 2015 (m m d d y y y y)	8/ / 28/ / 2015 (m m d d y y y y)
Time	c. 12 : 18 ☐ a.m. X p.m.	12 : 47 ☐ a.m. X p.m.
12. Sediment in well bottom	____ inches	____ inches
13. Water clarity	Clear ☐ 10 Turbid X 15 (Describe) Light Gray	Clear [X] 20 Turbid ☐ 25 (Describe) Clear
	Medium 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: Matt Last Name: Lechner
Facility/Firm: Dave's Gas Station
Street: P.O. Box 86
City/State/Zip: Black River Falls WI 54615-

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: Dillon J Plamann
Print Name: Dillon Plamann
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
Dave's Gas Station	JACKSON	MW-3

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well ID Number
	27	VN734	

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 46 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 8.7 gal.

7. Volume of water removed from well 70 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. 5.05 ft.	5.35 ft.
Date	b. 08 / 28 / 2015 (m m d d y y y y)	8/ /28/ /2015 (m m d d y y y y)
Time	c. 11 : 14 X a.m. ☐ p.m.	12 : 00 ☐ 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

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: Matt Last Name: Lechner
Facility/Firm: Dave's Gas Station
Street: P.O. Box 86
City/State/Zip: Black River Falls WI 54615-

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: Dillon J Plamann
Print Name: Dillon Plamann
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
Dave's Gas Station	JACKSON	MW-4

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well ID Number
	27	VN733	

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 47 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 8.9 gal.

7. Volume of water removed from well 65 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. 4.91 ft.	6.01 ft.
Date	b. 08 / 28 / 2015 (m m d d y y y y)	8/28/2015 (m m d d y y y y)
Time	c. 10 : 22 X a.m. ☐ p.m.	11 : 09 X a.m. ☐ 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
	Medium 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: Matt Last Name: Lechner
Facility/Firm: Dave's Gas Station
Street: P.O. Box 86
City/State/Zip: Black River Falls WI 54615-

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: Dillon J Plamann
Print Name: Dillon Plamann
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
Dave's Gas Station	JACKSON	MW-5

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well ID Number
	27	VN737	

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 65 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 7.9 gal.

7. Volume of water removed from well 90 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. 5.86 ft.	7.72 ft.
Date	b. 08 / 28 / 2015 (m m d d y y y y)	8/ /28/ /2015 (m m d d y y y y)
Time	c. 09 : 09 X a.m. ☐ p.m.	10 : 14 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
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: Matt Last Name: Lechner
Facility/Firm: Dave's Gas Station
Street: P.O. Box 86
City/State/Zip: Black River Falls WI 54615-

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: Dillon Plamann
Print Name: Dillon Plamann
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

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
Dave's Gas Station		G-1

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Darrin Last: Prentice Firm: Geiss Soil & Samples LLC	10/13/2014 MM/ DD/ YYYY	10/13/2014 MM /DD/ YYYY	Geoprobe

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			935 Feet MSL	940 Feet MSL	2 inches

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 44 ° 27 ' 14 "	N E
SE ¼ of SE ¼ of Section 22, T 23 N, R 4 W	Long 90° 50 ' 36 "	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
	Jackson	27	Village of Merrillan

Sample					Soil Properties									
Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
G-1-1 0-4 ft	48 30		2	Light Gray fine to coarse grained sand	SP			580		Moist				Petro Odor
			5	Light Gray fine to coarse grained sand (4-6 feet).										
G-1-2 4-8 ft	48 36		6	Gray clay (6-7 feet).	CL			125		Moist/Wet				Petro Odor And Staining
			8	Tan fine to course grained sand (7-8 feet)	SP									
				EOB @ 8 Feet. Groundwater Sample G-1-W collected at 4-8 feet. Borehole abandoned.										

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

Signature: Firm: **METCO**

This form is authorized by Chapters 281, 283, 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
Dave's Gas Station		G-2

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Darrin Last: Prentice	10/13/2014	10/13/2014	Geoprobe
Firm: Geiss Soil & Samples LLC	MM/ DD/ YYYY	MM /DD/ YYYY	

WI Unique Well No. DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		935 Feet MSL	940 Feet MSL	2 inches

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 44 ° 27 ' 14 "	N E
SE ¼ of SE ¼ of Section 22, T 23 N, R 4 W	Long 90° 50 ' 36 "	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
	Jackson	27	Village of Merrillan

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
G-2-1 0-4 ft	48 18		1-4	Brown fine to coarse grained sand	SP			10		Moist				No Petro Odor
			5	Brown fine to coarse grained sand (4-6 feet).	SP									
G-2-2 4-8 ft	48 36		6-7	Gray Clay	CL			50		Moist/Wet				Petro Odor From 5-8 ft
			8-9	Tan weathered dolomite (8-10 feet).										
G-2-3 8-10 ft	48 24		10					10		Moist				Slight petro odor
			11-12	EOB @ 10 Feet. Groundwater Sample G-2-W collected at 6-10 feet. Borehole abandoned.										

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
Dave's Gas Station		G-3

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Darrin Last: Prentice Firm: Geiss Soil & Samples LLC	10/13/2014 MM/ DD/ YYYY	10/13/2014 MM /DD/ YYYY	Geoprobe

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			935 Feet MSL	940 Feet MSL	2 inches

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 44 ° 27 ' 14 "	N E
SE ¼ of SE ¼ of Section 22, T 23 N, R 4 W	Long 90° 50 ' 36 "	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
	Jackson	27	Village of Merrillan

Sample					Soil Properties									
Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
G-3-1 0-4 ft	48 24		1 2 3 4	Orange to tan fine to coarse grained sand	SP					Moist				No Petro Odor
			5	Tan to gray fine to coarse grained sand										
G-3-2 4-8 ft	48 24		6 7 8		SP					Most/Wet				No Petro Odor
				EOB @ 8 Feet. Groundwater Sample G-3-W collected at 4-8 feet. Borehole abandoned.										
			9 10 11 12											

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Signature: Firm: METCO

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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
Dave's Gas Station		G-4

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Darrin Last: Prentice Firm: Geiss Soil & Samples LLC	10/13/2014 MM/ DD/ YYYY	10/13/2014 MM /DD/ YYYY	Geoprobe

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			935 Feet MSL	940 Feet MSL	2 inches

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 44 ° 27 ' 14 "	N E
SE ¼ of SE ¼ of Section 22, T 23 N, R 4 W	Long 90° 50 ' 36 "	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
	Jackson	27	Village of Merrillan

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
G-4-1 0-4 ft	48 24		1–2	Orange fine to coarse grained sand	SP			0		Moist				No Petro Odor
			3–4											
			5	Orange fine to coarse grained sand (4-7 ft)	SP									
G-4-2 4-8 ft	48 24		6–7					0		Most/Wet				No Petro Odor
			7–8	Gray Clay (7-8 ft)	CL									
			8	EOB @ 8 Feet. Groundwater Sample G-4-W collected at 4-8 feet. Borehole abandoned.										
			9–12											

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
Dave's Gas Station		G-5

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Darrin Last: Prentice	10/13/2014	10/13/2014	Geoprobe
Firm: Geiss Soil & Samples LLC	MM/ DD/ YYYY	MM /DD/ YYYY	

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			935 Feet MSL	940 Feet MSL	2 inches

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 44 ° 27 ' 14 "	N E
SE ¼ of SE ¼ of Section 22, T 23 N, R 4 W	Long 90° 50 ' 36 "	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
	Jackson	27	Village of Merrillan

Sample					Soil Properties									
Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
G-5-1 0-4 ft	48 30		1–12	Orange fine to coarse grained sand	SP			0		Moist				No Petro Odor
				Orange fine to coarse grained sand (4-6 feet).	SP									
G-5-2 4-8 ft	48 36			Gray clay (6-7 feet).	CL			0		Moist/Wet				No Petro Odor
				Weathered Dolomite (7-8 feet)										
				EOB @ 8 Feet. Groundwater Sample G-5-W collected at 4-8 feet. Borehole abandoned.										

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
Dave's Gas Station		G-6

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Darrin Last: Prentice Firm: Geiss Soil & Samples LLC	10/13/2014 MM/ DD/ YYYY	10/13/2014 MM /DD/ YYYY	Geoprobe

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			935 Feet MSL	940 Feet MSL	2 inches

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 44 ° 27 ' 14 "	N E
SE ¼ of SE ¼ of Section 22, T 23 N, R 4 W	Long 90° 50 ' 36 "	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
	Jackson	27	Village of Merrillan

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
G-6-1 0-4 ft	48 30		1–4	Orange fine to coarse grained sand	SP			5		Moist				Slight Petro Odor
			5	Orange fine to coarse grained sand (4-6 feet).	SP									
G-6-2 4-8 ft	48 36		6–7	Gray clay (6-7 feet).	CL			965		Moist/Wet				Petro Odor and Staining
			7–8	Gray fine to course grained sand (7-8 feet)	SP									
			8	EOB @ 8 Feet. Groundwater Sample G-6-W collected at 4-8 feet. Borehole abandoned.										
			9–12											

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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
Dave's Gas Station		G-7

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Darrin Last: Prentice Firm: Geiss Soil & Samples LLC	10/13/2014 MM/ DD/ YYYY	10/13/2014 MM /DD/ YYYY	Geoprobe

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			935 Feet MSL	940 Feet MSL	2 inches

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 44 ° 27 ' 14 "	N E
SE ¼ of SE ¼ of Section 22, T 23 N, R 4 W	Long 90° 50 ' 36 "	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
	Jackson	27	Village of Merrillan

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
			1	Tan sand and gravel (0-2 ft)	SP									
G-7-1 0-4 ft	48 24		2	Tan fine to coarse grained sand (2-4 ft)	SP			0		Moist				No Petro Odor
			3											
			4											
			5	Tan fine to coarse grained sand (4-6 ft)	SP									
G-7-2 4-8 ft	48 24		6					0		Most/Wet				No Petro Odor
			7	Gray Clay (6-8 ft)	CL									
			8	EOB @ 8 Feet. Groundwater Sample G-7-W collected at 4-8 feet. Borehole abandoned.										
			9											
			10											
			11											
			12											

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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
Dave's Gas Station		G-8

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Darrin Last: Prentice Firm: Geiss Soil & Samples LLC	10/13/2014 MM/ DD/ YYYY	10/13/2014 MM /DD/ YYYY	Geoprobe

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			935 Feet MSL	940 Feet MSL	2 inches

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 44 ° 27 ' 14 "	N E
SE ¼ of SE ¼ of Section 22, T 23 N, R 4 W	Long 90° 50 ' 36 "	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
	Jackson	27	Village of Merrillan

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
			1	Brown sand and gravel (0-2 ft)	FILL									
G-8-1 0-4 ft	48 24		2	Tan fine to coarse grained sand (2-4 ft)	SP			0		Moist				No Petro Odor
			3											
			4											
			5	Tan fine to coarse grained sand (4-6 ft)	SP									
			6											
G-8-2 4-8 ft	48 24		7	Gray Sandy Clay (6-8 ft)	CL			0		Most/Wet				No Petro Odor
			8	EOB @ 8 Feet. Groundwater Sample G-8-W collected at 4-8 feet. Borehole abandoned.										
			9											
			10											
			11											
			12											

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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
Dave's Gas Station		G-9

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Darrin Last: Prentice Firm: Geiss Soil & Samples LLC	10/13/2014 MM/ DD/ YYYY	10/13/2014 MM /DD/ YYYY	Geoprobe

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			935 Feet MSL	940 Feet MSL	2 inches

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 44 ° 27 ' 14 "	N E
SE ¼ of SE ¼ of Section 22, T 23 N, R 4 W	Long 90° 50 ' 36 "	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
	Jackson	27	Village of Merrillan

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
			1	Brown sand and gravel (0-2 ft)	FILL									
G-9-1 0-4 ft	48 24		2					0		Moist				No Petro Odor
			3	Tan fine to coarse grained sand (2-4 ft)	SP									
			4											
			5	Tan fine to coarse grained sand (4-6 ft)	SP									
			6											
G-9-2 4-8 ft	48 30		7	Gray Sandy Clay (6-7.5 ft)	CL			0		Most/Wet				No Petro Odor
			8	Tan fine to coarse grained sand (7.5-8)	SP									
				EOB @ 8 Feet. Groundwater Sample G-9-W collected at 4-8 feet. Borehole abandoned.										
			9											
			10											
			11											
			12											

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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
Dave's Gas Station		G-10

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Darrin Last: Prentice Firm: Geiss Soil & Samples LLC	10/13/2014 MM/ DD/ YYYY	10/13/2014 MM /DD/ YYYY	Geoprobe

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			935 Feet MSL	940 Feet MSL	2 inches

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 44 ° 27 ' 14 "	N E
SE ¼ of SE ¼ of Section 22, T 23 N, R 4 W	Long 90° 50 ' 36 "	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
	Jackson	27	Village of Merrillan

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
G-10-1 0-4 ft	48 24		1 2 3 4 5	Tan fine to coarse grained sand	SP			0		Moist				No Petro Odor
G-10-2 4-8 ft	48 24		6 7 8	Tan fine to coarse grained sand EOB @ 8 Feet. Groundwater Sample G-10-W collected at 4-8 feet. Borehole abandoned.	SP			0		Most/Wet				No Petro Odor
			9 10 11 12											

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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
Dave's Gas Station		G-11

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Darrin Last: Prentice	10/13/2014	10/13/2014	Geoprobe
Firm: Geiss Soil & Samples LLC	MM/ DD/ YYYY	MM /DD/ YYYY	

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			935 Feet MSL	940 Feet MSL	2 inches

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 44 ° 27 ' 14 "	N E
SE ¼ of SE ¼ of Section 22, T 23 N, R 4 W	Long 90° 50 ' 36 "	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
	Jackson	27	Village of Merrillan

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
G-11-1 0-4 ft	48 24		1–2	Tan fine to coarse grained sand (2-4 ft)	SP			0		Moist				No Petro Odor
			3–4											
			5	Tan fine to coarse grained sand (4-6 ft)	SP									
G-11-2 4-8 ft	48 30		6–7	Gray Sandy Clay (6-7.5 ft)	CL			25		Most/Wet				Petro Odor from 7-8 ft
			7–8	Gray fine to coarse grained sand (7.5-8)	SP									
			8	EOB @ 8 Feet. Groundwater Sample G-11-W collected at 4-8 feet. Borehole abandoned.										
			9–12											

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SOIL BORING LOG INFORMATION

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

Facility / Project Name	License / Permit / Monitoring Number	Boring Number
Dave's Gas Station		G-12

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Darrin Last: Prentice	10/13/2014	10/13/2014	Geoprobe
Firm: Geiss Soil & Samples LLC	MM/ DD/ YYYY	MM /DD/ YYYY	

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			935 Feet MSL	940 Feet MSL	2 inches

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 44 ° 27 ' 14 "	N E
SE ¼ of SE ¼ of Section 22, T 23 N, R 4 W	Long 90° 50 ' 36 "	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
	Jackson	27	Village of Merrillan

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
G-12-1 0-4 ft	48 24		1 2 3 4 5	Tan fine to coarse grained sand	SP			515		Moist				Petro Odor
			5 6	Tan fine to coarse grained sand										
G-12-2 4-8 ft	48 30		6 7 8		SP			580		Most/Wet				Petro Odor
			8 9 10 11 12	EOB @ 8 Feet. Groundwater Sample G-12-W collected at 4-8 feet. Borehole abandoned.										

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
Dave's Gas Station		G-13

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Darrin Last: Prentice	10/13/2014	10/13/2014	Geoprobe
Firm: Geiss Soil & Samples LLC	MM/ DD/ YYYY	MM /DD/ YYYY	

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			935 Feet MSL	940 Feet MSL	2 inches

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 44 ° 27 ' 14 "	N E
SE ¼ of SE ¼ of Section 22, T 23 N, R 4 W	Long 90° 50 ' 36 "	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
	Jackson	27	Village of Merrillan

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
G-13-1 0-4 ft	48 12		1–2	Tan sand and gravel	FILL			0		Moist				No Petro Odor
			3–5	Tan sand and gravel (4-6 ft)	FILL									
G-13-2 4-8 ft	48 36		6–7	Gray Clay (6-7.5 ft)	CL			320		Most/Wet				Petro Odor from 4-8 ft
			7–8	Gray fine to coarse grained sand (7.5-8)	SP									
			8	EOB @ 8 Feet. Groundwater Sample G-13-W collected at 4-8 feet. Borehole abandoned.										

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

Signature: Firm: METCO

This form is authorized by Chapters 281, 283, 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
Dave's Gas Station		G-14

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Darrin Last: Prentice	10/13/2014	10/13/2014	Geoprobe
Firm: Geiss Soil & Samples LLC	MM/ DD/ YYYY	MM /DD/ YYYY	

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			935 Feet MSL	940 Feet MSL	2 inches

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 44 ° 27 ' 14 "	N E
SE ¼ of SE ¼ of Section 22, T 23 N, R 4 W	Long 90° 50 ' 36 "	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
	Jackson	27	Village of Merrillan

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
G-14-1 0-4 ft	48 36		1–4	Brown sand and gravel (0-3 ft)	SP			5		Moist				Slight Petro Odor
			3–5	Tan fine to coarse grained sand (3-4 ft)	SP									
			5–6	Tan to orange fine to coarse grained sand (4-7.5 ft)	SP									
G-14-2 4-8 ft	48 30		6–7	Gray Clay (7.5-8 ft)	CL			0		Most/Wet				No Petro Odor
			8	EOB @ 8 Feet. Groundwater Sample G-14-W collected at 4-8 feet. Borehole abandoned.										

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
Dave's Gas Station		G-15

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Darrin Last: Prentice Firm: Geiss Soil & Samples LLC	10/13/2014 MM/ DD/ YYYY	10/13/2014 MM /DD/ YYYY	Geoprobe

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			935 Feet MSL	940 Feet MSL	2 inches

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 44 ° 27 ' 14 "	N E
SE ¼ of SE ¼ of Section 22, T 23 N, R 4 W	Long 90° 50 ' 36 "	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
	Jackson	27	Village of Merrillan

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
G-15-1 0-4 ft	48 24		1 2 3 4	Brown fine to coarse grained sand	SP			0		Moist				No Petro Odor
			5	Brown fine to coarse grained sand	SP									
G-15-2 4-8 ft	48 24		6 7 8					0		Most/Wet				No Petro Odor
			8	EOB @ 8 Feet. Groundwater Sample G-15-W collected at 4-8 feet. Borehole abandoned.										
			9 10 11 12											

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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
Dave's Gas Station		G-16

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Darrin Last: Prentice Firm: Geiss Soil & Samples LLC	10/13/2014 MM/ DD/ YYYY	10/13/2014 MM /DD/ YYYY	Geoprobe

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			935 Feet MSL	940 Feet MSL	2 inches

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 44 ° 27 ' 14 "	N E
SE ¼ of SE ¼ of Section 22, T 23 N, R 4 W	Long 90° 50 ' 36 "	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
	Jackson	27	Village of Merrillan

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
G-16-1 0-4 ft	48 24		1 2 3 4 5	Gray fine to coarse grained sand	SP			1300		Moist				Petro Odor
			5 6 7 8	Gray fine to coarse grained sand	SP									
G-16-2 4-8 ft	48 24		8 9 10 11 12	EOB @ 8 Feet. Groundwater Sample G-16-W collected at 4-8 feet. Borehole abandoned.				550		Most/Wet				Petro Odor and staining

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Signature: Firm: METCO

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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
Dave's Gas Station		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	08/28/2015 MM/ DD/ YYYY	08/28/2015 MM/DD/ YYYY	HSA/AR

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
VN736		MW-1	935 Feet MSL	940 Feet MSL	6

Local Grid Origin (estimated X) or Boring Location		Local Grid Location	
State Plane N, E	Lat 44 ° 27 ' 14 "	N	E
SE ¼ of SE ¼ of Section 22 , T 23 N, R 4 W	Long 90 ° 50 ' 36"	Feet S	Feet W

Facility ID	County	County Code	Civil Town / City / Village
None	Jackson	27	Village of Merrillan

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
MW-1-1 (2-4 feet)	24 18	2 , 3 3 , 3	2 4	Gray fine to coarse grained sand	SP		See Well Construction Form	215		M				Petro Odor
MW-1-2 (6-8 feet)	24 18	6 , 6 8 , 12	6 8 10 12	Gray weathered sandstone				845		W				Petro Odor
MW-1-3 (13 feet)			14 16 18 20 22 24	White fine to coarse grained sandstone EOB at 13.5 Feet. Auger refusal @ 9.5 feet, air rotary drilling from 9.5 to 13.5 feet Installed monitoring well MW-1 to 13 feet.				15		W				Petro Odor

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
Dave's Gas Station		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	08/28/2015 MM/ DD/ YYYY	08/28/2015 MM /DD/ YYYY	HSA/AR

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
VN735		MW-2	935 Feet MSL	940 Feet MSL	6

Local Grid Origin (estimated X) or Boring Location		Local Grid Location	
State Plane N, E	Lat 44 ° 27 ' 14 "	N	E
SE ¼ of SE ¼ of Section 22 , T 23 N, R 4 W	Long 90 ° 50 ' 36"	Feet S	Feet W

Facility ID	County	County Code	Civil Town / City / Village
None	Jackson	27	Village of Merrillan

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
MW-2-1 (2-4 feet)	24 18	2 , 3 4 , 4	2	Tan fine to coarse grained sand	SP		See Well Construction Form	2.6		M				No Petro Odor
MW-2-2 (6-8 feet)	24 18	5 , 6 6 , 11	6 8	Gray fine to coarse grained sand	SP			8.4		W				Slight Petro Odor
MW-2-3 (13 feet)			10 12	Tan fine to coarse grained sandstone				2.9		W				Slight Petro Odor
			14 16 18 20 22 24	EOB at 13.5 Feet. Auger refusal @ 9 feet. air rotary drilling from 9 to 13.5 feet. Installed monitoring well MW-2 to 13 feet.										

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
Dave's Gas Station		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	08/28/2015 MM/ DD/ YYYY	08/28/2015 MM /DD/ YYYY	HSA/AR

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
VN734		MW-3	935 Feet MSL	940 Feet MSL	6

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 44 ° 27 ' 14 "	N E
SE ¼ of SE ¼ of Section 22 , T 23 N, R 4 W	Long 90 ° 50 ' 36"	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
None	Jackson	27	Village of Merrillan

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
MW-3-1 (2-4 feet)	24 18	1 , 1 2 , 2	2	Tan fine to coarse grained sand	SP		See Well Construction Form	2.0		M				No Petro Odor
MW-3-2 (6-8 feet)	24 18	8 , 12 15 , 23	4 6 8	White fine to coarse grained sand	SP			1.5		W				No Petro Odor
MW-3-3 (13 feet)			10 12	Tan fine to coarse grained sandstone				2.5		W				No Petro Odor
			14 16 18 20 22 24	EOB at 13.5 Feet. Auger refusal @ 7 feet, air rotary drilling from 7 to 13.5 feet. Installed monitoring well MW-3 to 13 feet.										

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
Dave's Gas Station		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	08/28/2015 MM/ DD/ YYYY	08/28/2015 MM /DD/ YYYY	HSA/AR

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
VN733		MW-4	935 Feet MSL	940 Feet MSL	6

Local Grid Origin (estimated X) or Boring Location		Local Grid Location	
State Plane N, E	Lat 44 ° 27 ' 14 "	N	E
SE ¼ of SE ¼ of Section 22 , T 23 N, R 4 W	Long 90 ° 50 ' 36"	Feet S	Feet W

Facility ID	County	County Code	Civil Town / City / Village
None	Jackson	27	Village of Merrillan

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
MW-4-1 (2-4 feet)	24 18	2 , 3 3 , 4	2	Tan fine to coarse grained sand	SP		See Well Construction Form	2.5		M				No Petro Odor
MW-4-2 (6-8 feet)	24 24	4 , 6 6 , 6	4 6 8 10 12	Gray weathered sandstone				2.9		M				No Petro Odor
MW-4-3 (13 feet)			14	Tan fine to coarse grained sandstone EOB at 13.5 Feet. Auger refusal @ 8 feet, air rotary drilling from 8 to 13.5. Installed monitoring well MW-4 to 13 feet.				1.5		W				No Petro Odor
			16 18 20 22 24											

Signature: Firm: METCO

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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
Dave's Gas Station		MW-5

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	08/28/2015 MM/ DD/ YYYY	08/28/2015 MM /DD/ YYYY	HSA/AR

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
VN737		MW-5	935 Feet MSL	940 Feet MSL	6

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E SE ¼ of SE ¼ of Section 22 , T 23 N, R 4 W	Lat 44 ° 27 ' 14 " Long 90 ° 50 ' 36"	N E Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
None	Jackson	27	Village of Merrillan

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
MW-5-1 (2-4 feet)	24 18	2 , 2 4 , 6	2 4	Gray fine to coarse grained sand	SP		See Well Construction Form	3.7		M				No Petro Odor
MW-5-2 (6-8 feet)	24 18	3 , 6 6 , 8	6 8	Gray fine to coarse grained sand	SP			2.7		W				No Petro Odor
MW-5-3 (13 feet)			10 12	Tan fine to coarse grained sandstone				2.5		W				No Petro Odor
			14	EOB at 13.5 Feet Auger refusal @ 8.5 feet, Air rotary drilling from 8.5 to 13.5 feet. Installed monitoring well MW-5 to 13 feet.										
			16 18 20 22 24											

Signature: Firm: METCO

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

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08) Page 1 of 2

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 #
JACKSON		

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

44 ° 27 . ' N

90 ° 50 . ' W

¼ / ¼	¼	Section	Township	Range	
SE	SE	22	23 N	4	☐ E [X] W

or Gov't Lot #

Well Street Address: 405 N WASHINGTON ST

Well City, Village or Town: Merrillan — Well ZIP Code: 54754-

Subdivision Name — Lot #

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

2. Facility / Owner Information

Facility Name: Dave's Gas Station

Facility ID (FID or PWS)

License/Permit/Monitoring #

Original Well Owner: Matt Lechner

Present Well Owner: Matt Lechner

Mailing Address of Present Owner: P.O Box 86

City of Present Owner: Black River Falls — State: WI — ZIP Code: 54615-

3. Well / Drillhole / Borehole Information

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

Original Construction Date (mm/dd/yyyy): 10/13/2014

If a Well Construction Report is available, please attach.

Construction Type:

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

Formation Type:

[X] Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
8	
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2	

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

If yes, to what depth (feet)?	Depth to Water (feet)
	5

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 [X] Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:

☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

Material	From (ft.)	To (ft.)	Pounds	
Bentonite Chips	Surface	8	13	

6. Comments

GP-1
Abandoned by Geiss Soil and Samples LLC under METCO's supervision

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Eric Dahl/ METCO		10/10/2013

Street or Route: 709 Gillette Street — Telephone Number: (608) 781-8879

City: La Crosse — State: WI — ZIP Code: 54603-

Signature of Person Doing Work

Date Signed: 11/6/2014

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 #
JACKSON		

Latitude / Longitude (Degrees and Minutes)	Method Code (see instructions)
44 ° 27 . ' N	
90 ° 50 . ' W	

¼ / ¼	¼	Section	Township	Range	
SE	SE	22	23 N	4	☐ E [X] W

or Gov't Lot #

Well Street Address: 405 N WASHINGTON ST

Well City, Village or Town	Well ZIP Code
Merrillan	54754-
Subdivision Name	Lot #

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

2. Facility / Owner Information

Facility Name: Dave's Gas Station

Facility ID (FID or PWS):

License/Permit/Monitoring #:

Original Well Owner: Matt Lechner

Present Well Owner: Matt Lechner

Mailing Address of Present Owner: P.O Box 86

City of Present Owner	State	ZIP Code
Black River Falls	WI	54615-

3. Well / Drillhole / Borehole Information

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

Original Construction Date (mm/dd/yyyy): 10/13/2014

If a Well Construction Report is available, please attach.

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

Formation Type:
[X] Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
10	
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2	

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

If yes, to what depth (feet)?	Depth to Water (feet)
	7.5

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 [X] Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

Material	From (ft.)	To (ft.)	Pounds	
Bentonite Chips	Surface	10	16	

6. Comments

GP-2
Abandoned by Geiss Soil and Samples LLC under METCO's supervision

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Eric Dahl/ METCO		10/10/2013

Street or Route	Telephone Number
709 Gillette Street	(608) 781-8879

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
La Crosse	WI	54603-		11/6/2014

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 #
JACKSON		

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

44 ° 27 . ___ ___ ___ 'N

90 ° 50 . ___ ___ ___ 'W

¼ / ¼	¼	Section	Township	Range	
SE	SE	22	23 N	4	☐ E [X] W

or Gov't Lot #

Well Street Address: 405 N WASHINGTON ST

Well City, Village or Town	Well ZIP Code
Merrillan	54754-

Subdivision Name	Lot #

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

2. Facility / Owner Information

Facility Name: Dave's Gas Station

Facility ID (FID or PWS):

License/Permit/Monitoring #:

Original Well Owner: Matt Lechner

Present Well Owner: Matt Lechner

Mailing Address of Present Owner: P.O Box 86

City of Present Owner	State	ZIP Code
Black River Falls	WI	54615-

3. Well / Drillhole / Borehole Information

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

Original Construction Date (mm/dd/yyyy): 10/13/2014

If a Well Construction Report is available, please attach.

Construction Type:

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

Formation Type:

[X] Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
8	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2	

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

If yes, to what depth (feet)?	Depth to Water (feet)
	5

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 [X] Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:

☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

	From (ft.)	To (ft.)	Pounds	
Bentonite Chips	Surface	8	13	

6. Comments

GP-3
Abandoned by Geiss Soil and Samples LLC under METCO's supervision

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Eric Dahl/ METCO		10/10/2013

Street or Route	Telephone Number
709 Gillette Street	(608) 781-8879

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
La Crosse	WI	54603-		11/6/2014

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)

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☐ 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 #
JACKSON		

Latitude / Longitude (Degrees and Minutes)	Method Code (see instructions)
44 ° 27 . ' N	
90 ° 50 . ' W	

¼ / ¼	¼	Section	Township	Range	
SE	SE	22	23 N	4	☐ E [X] W

or Gov't Lot #

Well Street Address: 405 N WASHINGTON ST

Well City, Village or Town	Well ZIP Code
Merrillan	54754-

Subdivision Name	Lot #

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

2. Facility / Owner Information

Facility Name: Dave's Gas Station

Facility ID (FID or PWS):

License/Permit/Monitoring #:

Original Well Owner: Matt Lechner

Present Well Owner: Matt Lechner

Mailing Address of Present Owner: P.O Box 86

City of Present Owner	State	ZIP Code
Black River Falls	WI	54615-

3. Well / Drillhole / Borehole Information

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

Original Construction Date (mm/dd/yyyy): 10/13/2014

If a Well Construction Report is available, please attach.

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

Formation Type: [X] Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
8	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2	

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

If yes, to what depth (feet)?	Depth to Water (feet)
	5

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 [X] Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only: ☐ Bentonite Chips ☐ Bentonite - Cement Grout ☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

	From (ft.)	To (ft.)	Pounds	
Bentonite Chips	Surface	8	13	

6. Comments

GP-4
Abandoned by Geiss Soil and Samples LLC under METCO's supervision

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Eric Dahl/ METCO		10/10/2013

Street or Route	Telephone Number
709 Gillette Street	(608) 781-8879

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
La Crosse	WI	54603-		11/6/2014

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)

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☐ 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 #
JACKSON		

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

44 ° 27 . ___ ___ ___ 'N

90 ° 50 . ___ ___ ___ 'W

¼ / ¼	¼	Section	Township	Range	
SE	SE	22	23 N	4	☐ E [X] W

or Gov't Lot #

Well Street Address: 405 N WASHINGTON ST

Well City, Village or Town: Merrillan | Well ZIP Code: 54754-

Subdivision Name | Lot #

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

2. Facility / Owner Information

Facility Name: Dave's Gas Station

Facility ID (FID or PWS)

License/Permit/Monitoring #

Original Well Owner: Matt Lechner

Present Well Owner: Matt Lechner

Mailing Address of Present Owner: P.O Box 86

City of Present Owner: Black River Falls | State: WI | ZIP Code: 54615-

3. Well / Drillhole / Borehole Information

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

Original Construction Date (mm/dd/yyyy): 10/13/2014

If a Well Construction Report is available, please attach.

Construction Type:

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

Formation Type:

[X] Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
8	
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2	

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

If yes, to what depth (feet)?	Depth to Water (feet)
	5

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 [X] Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:

☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

	From (ft.)	To (ft.)	Pounds	
Bentonite Chips	Surface	8	13	

6. Comments

GP-5
Abandoned by Geiss Soil and Samples LLC under METCO's supervision

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Eric Dahl/ METCO		10/10/2013

Street or Route: 709 Gillette Street | Telephone Number: (608) 781-8879

City: La Crosse | State: WI | ZIP Code: 54603-

Signature of Person Doing Work | Date Signed: 11/6/2014

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)

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☐ 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 #
JACKSON		

Latitude / Longitude (Degrees and Minutes) 44 ° 27 . ' N / 90 ° 50 . ' W — Method Code (see instructions)

¼ / ¼	¼	Section	Township	Range	
SE	SE	22	23 N	4	☐ E [X] W

or Gov't Lot #

Well Street Address: 405 N WASHINGTON ST

Well City, Village or Town: Merrillan — Well ZIP Code: 54754-

Subdivision Name — Lot #

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

2. Facility / Owner Information

Facility Name: Dave's Gas Station

Facility ID (FID or PWS)

License/Permit/Monitoring #

Original Well Owner: Matt Lechner

Present Well Owner: Matt Lechner

Mailing Address of Present Owner: P.O Box 86

City of Present Owner: Black River Falls — State: WI — ZIP Code: 54615-

3. Well / Drillhole / Borehole Information

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

Original Construction Date (mm/dd/yyyy): 10/13/2014

If a Well Construction Report is available, please attach.

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

Formation Type: [X] Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
8	
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2	

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

If yes, to what depth (feet)?	Depth to Water (feet)
	5

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 [X] Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only: ☐ Bentonite Chips ☐ Bentonite - Cement Grout ☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

	From (ft.)	To (ft.)	Pounds	
Bentonite Chips	Surface	8	13	

6. Comments

GP-6
Abandoned by Geiss Soil and Samples LLC under METCO's supervision

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Eric Dahl/ METCO		10/10/2013

Street or Route: 709 Gillette Street — Telephone Number: (608) 781-8879

City: La Crosse — State: WI — ZIP Code: 54603-

Signature of Person Doing Work — Date Signed: 11/6/2014

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)

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☐ 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 #
JACKSON		

Latitude / Longitude (Degrees and Minutes) — Method Code (see instructions)

44 ° 27 . ___ 'N

90 ° 50 . ___ 'W

¼ / ¼	¼	Section	Township	Range	
SE	SE	22	23 N	4	☐ E [X] W

or Gov't Lot #

Well Street Address: 405 N WASHINGTON ST

Well City, Village or Town: Merrillan — Well ZIP Code: 54754-

Subdivision Name — Lot #

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

2. Facility / Owner Information

Facility Name: Dave's Gas Station

Facility ID (FID or PWS)

License/Permit/Monitoring #

Original Well Owner: Matt Lechner

Present Well Owner: Matt Lechner

Mailing Address of Present Owner: P.O Box 86

City of Present Owner: Black River Falls — State: WI — ZIP Code: 54615-

3. Well / Drillhole / Borehole Information

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

Original Construction Date (mm/dd/yyyy): 10/13/2014

If a Well Construction Report is available, please attach.

Construction Type:

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

Formation Type:

[X] Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
8	
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2	

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

If yes, to what depth (feet)?	Depth to Water (feet)
	5

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 [X] Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:

☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

	From (ft.)	To (ft.)	Pounds	
Bentonite Chips	Surface	8	13	

6. Comments

GP-7
Abandoned by Geiss Soil and Samples LLC under METCO's supervision

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Eric Dahl/ METCO		10/10/2013

Street or Route	Telephone Number
709 Gillette Street	(608) 781-8879

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
La Crosse	WI	54603-		11/6/2014

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)

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☐ 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 #
JACKSON		

Latitude / Longitude (Degrees and Minutes) — Method Code (see instructions)

44 ° 27 . ' N

90 ° 50 . ' W

¼ / ¼	¼	Section	Township	Range	
SE	SE	22	23 N	4	☐ E [X] W

or Gov't Lot #

Well Street Address: 405 N WASHINGTON ST

Well City, Village or Town	Well ZIP Code
Merrillan	54754-

Subdivision Name	Lot #

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

2. Facility / Owner Information

Facility Name: Dave's Gas Station

Facility ID (FID or PWS):

License/Permit/Monitoring #:

Original Well Owner: Matt Lechner

Present Well Owner: Matt Lechner

Mailing Address of Present Owner: P.O Box 86

City of Present Owner	State	ZIP Code
Black River Falls	WI	54615-

3. Well / Drillhole / Borehole Information

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

Original Construction Date (mm/dd/yyyy): 10/13/2014

If a Well Construction Report is available, please attach.

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

Formation Type: [X] Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
8	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2	

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

If yes, to what depth (feet)?	Depth to Water (feet)
	5

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 [X] Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:

☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

	From (ft.)	To (ft.)	Pounds	
Bentonite Chips	Surface	8	13	

6. Comments

GP-8
Abandoned by Geiss Soil and Samples LLC under METCO's supervision

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Eric Dahl/ METCO		10/10/2013

Street or Route	Telephone Number
709 Gillette Street	(608) 781-8879

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
La Crosse	WI	54603-		11/6/2014

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 #
JACKSON		

Latitude / Longitude (Degrees and Minutes) — Method Code (see instructions)

44 ° 27 . ___ ___ ___ 'N

90 ° 50 . ___ ___ ___ 'W

¼ / ¼	¼	Section	Township	Range	
SE	SE	22	23 N	4	☐ E [X] W

or Gov't Lot #

Well Street Address: 405 N WASHINGTON ST

Well City, Village or Town: Merrillan — Well ZIP Code: 54754-

Subdivision Name — Lot #

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

2. Facility / Owner Information

Facility Name: Dave's Gas Station

Facility ID (FID or PWS)

License/Permit/Monitoring #

Original Well Owner: Matt Lechner

Present Well Owner: Matt Lechner

Mailing Address of Present Owner: P.O Box 86

City of Present Owner: Black River Falls — State: WI — ZIP Code: 54615-

3. Well / Drillhole / Borehole Information

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

Original Construction Date (mm/dd/yyyy): 10/13/2014

If a Well Construction Report is available, please attach.

Construction Type:

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

Formation Type:

[X] Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
8	
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2	

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

If yes, to what depth (feet)?	Depth to Water (feet)
	5

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 [X] Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:

☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

Material	From (ft.)	To (ft.)	Pounds	
Bentonite Chips	Surface	8	13	

6. Comments

GP-9
Abandoned by Geiss Soil and Samples LLC under METCO's supervision

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Eric Dahl/ METCO		10/10/2013

Street or Route: 709 Gillette Street — Telephone Number: (608) 781-8879

City: La Crosse — State: WI — ZIP Code: 54603-

Signature of Person Doing Work

Date Signed: 11/6/2014

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)

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☐ 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 #
JACKSON		

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

44 ° 27 . ___ ___ ___ 'N

90 ° 50 . ___ ___ ___ 'W

¼ / ¼	¼	Section	Township	Range	
SE	SE	22	23 N	4	☐ E [X] W

or Gov't Lot #

Well Street Address: 405 N WASHINGTON ST

Well City, Village or Town: Merrillan | Well ZIP Code: 54754-

Subdivision Name | Lot #

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

2. Facility / Owner Information

Facility Name: Dave's Gas Station

Facility ID (FID or PWS)

License/Permit/Monitoring #

Original Well Owner: Matt Lechner

Present Well Owner: Matt Lechner

Mailing Address of Present Owner: P.O Box 86

City of Present Owner: Black River Falls | State: WI | ZIP Code: 54615-

3. Well / Drillhole / Borehole Information

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

Original Construction Date (mm/dd/yyyy): 10/13/2014

If a Well Construction Report is available, please attach.

Construction Type:

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

Formation Type:

[X] Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
8	
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2	

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

If yes, to what depth (feet)?	Depth to Water (feet)
	5

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 [X] Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:

☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

	From (ft.)	To (ft.)	Pounds	
Bentonite Chips	Surface	8	13	

6. Comments

GP-10
Abandoned by Geiss Soil and Samples LLC under METCO's supervision

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Eric Dahl/ METCO		10/10/2013

Street or Route	Telephone Number
709 Gillette Street	(608) 781-8879

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
La Crosse	WI	54603-		11/6/2014

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)

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☐ 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 #
JACKSON		

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

44 ° 27 . ' N

90 ° 50 . ' W

¼ / ¼	¼	Section	Township	Range	
SE	SE	22	23 N	4	☐ E [X] W

or Gov't Lot #

Well Street Address: 405 N WASHINGTON ST

Well City, Village or Town	Well ZIP Code
Merrillan	54754-

Subdivision Name	Lot #

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

2. Facility / Owner Information

Facility Name: Dave's Gas Station

Facility ID (FID or PWS):

License/Permit/Monitoring #:

Original Well Owner: Matt Lechner

Present Well Owner: Matt Lechner

Mailing Address of Present Owner: P.O Box 86

City of Present Owner	State	ZIP Code
Black River Falls	WI	54615-

3. Well / Drillhole / Borehole Information

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

Original Construction Date (mm/dd/yyyy): 10/13/2014

If a Well Construction Report is available, please attach.

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

Formation Type: [X] Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
8	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2	

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

If yes, to what depth (feet)?	Depth to Water (feet)
	5

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 [X] Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:

☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

	From (ft.)	To (ft.)	Pounds	
Bentonite Chips	Surface	8	13	

6. Comments

GP-11
Abandoned by Geiss Soil and Samples LLC under METCO's supervision

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Eric Dahl/ METCO		10/10/2013

Street or Route	Telephone Number
709 Gillette Street	(608) 781-8879

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
La Crosse	WI	54603-		11/6/2014

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)

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☐ 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 #
JACKSON		

Latitude / Longitude (Degrees and Minutes) and Method Code (see instructions)

44 ° 27 . ___ ___ ___ 'N

90 ° 50 . ___ ___ ___ 'W

¼ / ¼	¼	Section	Township	Range	
SE	SE	22	23 N	4	☐ E [X] W

or Gov't Lot #

Well Street Address: 405 N WASHINGTON ST

Well City, Village or Town	Well ZIP Code
Merrillan	54754-

Subdivision Name	Lot #

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

2. Facility / Owner Information

Facility Name: Dave's Gas Station

Facility ID (FID or PWS):

License/Permit/Monitoring #:

Original Well Owner: Matt Lechner

Present Well Owner: Matt Lechner

Mailing Address of Present Owner: P.O Box 86

City of Present Owner	State	ZIP Code
Black River Falls	WI	54615-

3. Well / Drillhole / Borehole Information

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

Original Construction Date (mm/dd/yyyy): 10/13/2014

If a Well Construction Report is available, please attach.

Construction Type:

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

Formation Type:

[X] Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
8	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2	

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

If yes, to what depth (feet)?	Depth to Water (feet)
	5

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 [X] Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:

☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

From (ft.)	To (ft.)	Pounds	
Bentonite Chips	Surface	8	13

6. Comments

GP-12
Abandoned by Geiss Soil and Samples LLC under METCO's supervision

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Eric Dahl/ METCO		10/10/2013

Street or Route	Telephone Number
709 Gillette Street	(608) 781-8879

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
La Crosse	WI	54603-		11/6/2014

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)

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☐ 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 #
JACKSON		

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

44 ° 27 . ___ 'N

90 ° 50 . ___ 'W

¼ / ¼	¼	Section	Township	Range	
SE	SE	22	23 N	4	☐ E [X] W

or Gov't Lot #

Well Street Address: 405 N WASHINGTON ST

Well City, Village or Town: Merrillan | Well ZIP Code: 54754-

Subdivision Name | Lot #

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

2. Facility / Owner Information

Facility Name: Dave's Gas Station

Facility ID (FID or PWS)

License/Permit/Monitoring #

Original Well Owner: Matt Lechner

Present Well Owner: Matt Lechner

Mailing Address of Present Owner: P.O Box 86

City of Present Owner	State	ZIP Code
Black River Falls	WI	54615-

3. Well / Drillhole / Borehole Information

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

Original Construction Date (mm/dd/yyyy): 10/13/2014

If a Well Construction Report is available, please attach.

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

Formation Type: [X] Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
8	
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2	

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

If yes, to what depth (feet)?	Depth to Water (feet)
	5

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 [X] Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:

☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

From (ft.)	To (ft.)	Pounds	
Bentonite Chips	Surface	8	13

6. Comments

GP-13
Abandoned by Geiss Soil and Samples LLC under METCO's supervision

7. Supervision of Work

DNR Use Only

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)	Date Received	Noted By
Eric Dahl/ METCO		10/10/2013		

Street or Route	Telephone Number	Comments
709 Gillette Street	(608) 781-8879	

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
La Crosse	WI	54603-		11/6/2014

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

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

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☐ 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 #
JACKSON		

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

44 ° 27 . ' N

90 ° 50 . ' W

¼ / ¼	¼	Section	Township	Range	
SE	SE	22	23 N	4	☐ E [X] W

or Gov't Lot #

Well Street Address: 405 N WASHINGTON ST

Well City, Village or Town	Well ZIP Code
Merrillan	54754-

Subdivision Name	Lot #

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

2. Facility / Owner Information

Facility Name: Dave's Gas Station

Facility ID (FID or PWS):

License/Permit/Monitoring #:

Original Well Owner: Matt Lechner

Present Well Owner: Matt Lechner

Mailing Address of Present Owner: P.O Box 86

City of Present Owner	State	ZIP Code
Black River Falls	WI	54615-

3. Well / Drillhole / Borehole Information

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

Original Construction Date (mm/dd/yyyy): 10/13/2014

If a Well Construction Report is available, please attach.

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

Formation Type: [X] Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
8	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2	

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

If yes, to what depth (feet)?	Depth to Water (feet)
	5

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 [X] Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:

☐ Bentonite Chips ☐ Bentonite - Cement Grout ☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

	From (ft.)	To (ft.)	Pounds	
Bentonite Chips	Surface	8	13	

6. Comments

GP-14
Abandoned by Geiss Soil and Samples LLC under METCO's supervision

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Eric Dahl/ METCO		10/10/2013

Street or Route	Telephone Number
709 Gillette Street	(608) 781-8879

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
La Crosse	WI	54603-		11/6/2014

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 #
JACKSON		

Latitude / Longitude (Degrees and Minutes) — Method Code (see instructions)

44 ° 27 . ' N

90 ° 50 . ' W

¼ / ¼	¼	Section	Township	Range	
SE	SE	22	23 N	4	☐ E [X] W

or Gov't Lot #

Well Street Address: 405 N WASHINGTON ST

Well City, Village or Town	Well ZIP Code
Merrillan	54754-

Subdivision Name	Lot #

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

2. Facility / Owner Information

Facility Name: Dave's Gas Station

Facility ID (FID or PWS):

License/Permit/Monitoring #:

Original Well Owner: Matt Lechner

Present Well Owner: Matt Lechner

Mailing Address of Present Owner: P.O Box 86

City of Present Owner	State	ZIP Code
Black River Falls	WI	54615-

3. Well / Drillhole / Borehole Information

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

Original Construction Date (mm/dd/yyyy): 10/13/2014

If a Well Construction Report is available, please attach.

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

Formation Type: [X] Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
8	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2	

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

If yes, to what depth (feet)?	Depth to Water (feet)
	5

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 [X] Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only: ☐ Bentonite Chips ☐ Bentonite - Cement Grout ☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

From (ft.)	To (ft.)	Pounds	
Bentonite Chips	Surface	8	13

6. Comments

GP-15
Abandoned by Geiss Soil and Samples LLC under METCO's supervision

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Eric Dahl/ METCO		10/10/2013

Street or Route	Telephone Number
709 Gillette Street	(608) 781-8879

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
La Crosse	WI	54603-		11/6/2014

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)

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or Gov't Lot #

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Subdivision Name — Lot #

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Facility ID (FID or PWS)

License/Permit/Monitoring #

Original Well Owner: Matt Lechner

Present Well Owner: Matt Lechner

Mailing Address of Present Owner: P.O Box 86

City of Present Owner: Black River Falls — State: WI — ZIP Code: 54615-

3. Well / Drillhole / Borehole Information

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Did material settle after 24 hours?	☐ Yes	[X] No	☐ N/A
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Sealing Materials

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☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete [X] Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:

☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

	From (ft.)	To (ft.)	Pounds	
Bentonite Chips	Surface	8	13	

6. Comments

GP-16
Abandoned by Geiss Soil and Samples LLC under METCO's supervision

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Eric Dahl/ METCO		10/10/2013

Street or Route: 709 Gillette Street — Telephone Number: (608) 781-8879

City: La Crosse — State: WI — ZIP Code: 54603-

Signature of Person Doing Work

Date Signed: 11/6/2014

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

10-30 2015

CUSTOMER: Matt Lechner c/o MET-O
709 Gillette St
La Crosse WI 54603

JOB NAME: Former Dave's Gas Station
Merrillan WI

☐ CASH ☐ CHECK # _____ ☒ IN-HOUSE ACCOUNT

QUANTITY DATE	QUANTITY SHIPPED	DESCRIPTION	QTY.	UNIT PRICE	AMOUNT
	1	Mobilization	1	274 –	274 –
	6	Haul soil drums to Advanced Disposal-Eau Claire WI	6	103 –	618 –
	1	Haul water drum to Advanced Disposal-Eau Claire WI	1	40 10	40 10
		Thank You			
		Matt Lechner			
				TOTAL	932 10

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

SIGNATURE _____

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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 [illegible] 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, 10^5 ...

[illegible] If web calculator result or Csat exceeds 10% by weight (the ceiling limit concentration defined in RSL Users Guide), Not to Exceed [illegible] 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 57

Site Name:

Sample ID

Comparison: Hazard Index / Cumulative Cancer Risk

Target CR used: 1.00E-05

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed RCL (mg/kg)	Basis	INPUT Site Data (mg/kg)	Flag Individual Exceedance	Hazard Quotient (HQ) from Data	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				
Trichloroethylene	79-01-6	6.05	0.64	0.64	ca				
Tetrachloroethylene	127-18-4	115	30.7	30.7	ca				
Vinyl Chloride	75-01-4	93.3	0.07	0.07	ca				
Dichloroethylene, 1,1	75-35-4	342	-	342	nc				
Dichloroethylene, 1,2-trans	156-60-5	211	-	211	nc				
Dichloroethylene, 1,2-cis-	156-59-2	156	-	156	nc				
Trichloroethane, 1,1,1-	71-55-6	12300	-	640	Csat				
Carbon Tetrachloride	56-23-5	137	0.85	0.85	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				
Cadmium (Diet)	7440-43-9	70.2	2110	70.2	nc				
Lead and Compounds	7439-92-1	400	-	400	nc				
Test1Chem(DRO)	Wis. DRO			100					
Test2Chem(GRO)	Wis. GRO			100					

Type BRRTS No. Here (If Known)

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!

Residual Contaminant Levels Protective of Groundwater Quality

[illegible]

NR 140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Fed MCL =ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF 4.00	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				
Acetone	67-64-1	-	9000	1.85E+00				
Alachlor	15972-60-8	2	2	1.65E-03				
Aldicarb	116-06-3	3	10	2.49E-03				
Aluminum	7429-90-5	-	200	3.01E+02				
Antimony	7440-36-0	6	6	2.71E-01				
Anthracene	120-12-7	-	3000	9.84E+01				
Arsenic	7440-38-2	10	10	2.92E-01				
Atrazine, total chlorinated residues	1912-24-9	3	3	1.95E-03				
Barium	7440-39-3	2000	2000	8.24E+01				
Bentazon	25057-89-0	-	300	6.59E-02				
Benzene	71-43-2	5	5	2.56E-03				
Benzo(a)pyrene (PAH)	50-32-8	0.2	0.2	2.35E-01				
Benzo(b)fluoranthene (PAH)	205-99-2	-	0.2	2.40E-01				
Beryllium	7440-41-7	4	4	3.16E+00				
Boron	7440-42-8	-	1000	3.20E+00				
Bromodichloromethane (THM)	75-27-4	80	0.6	1.63E-04				
Bromoform (THM)	75-25-2	80	4.4	1.17E-03				
Bromomethane	74-83-9	-	10	2.53E-03				
Butylate	2008-41-5	-	400	3.88E-01				
Cadmium	7440-43-9	5	5	3.76E-01				
Carbaryl	63-25-2	-	40	3.64E-02				
Carbofuran	1563-66-2	40	40	1.56E-02				
Carbon disulfide	75-15-0	-	1000	2.97E-01				
Carbon tetrachloride	56-23-5	5	5	1.94E-03				
Chloramben	133-90-4	-	150	3.63E-02				
Chlorodifluoromethane	75-45-6	-	7000	2.89E+00				
Chloroethane	75-00-3	-	400	1.13E-01				
Chloroform (THM)	67-66-3	80	6	1.67E-03				
Chlorpyrifos	2921-88-2	-	2	2.95E-02				
Chloromethane	74-87-3	-	30	7.76E-03				
Chromium (total)	7440-47-3	100	100	1.80E+05				Re-assess if Cr-VI present
Chrysene (PAH)	218-01-9	-	0.2	7.25E-02				
Cobalt	7440-48-4	-	40	1.81E+00				
Copper	7440-50-8	1300	1300	4.58E+01				
Cyanazine	21725-46-2	-	1	4.68E-04				
Cyanide, free	57-12-5	200	200	2.02E+00				
Dacthal (DCPA)	1861-32-1	-	70	8.56E-02				
1,2-Dibromoethane	106-93-4	0.05	0.05	1.41E-05				
Dibromochloromethane (THM)	124-48-1	80	60	1.60E-02				
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	0.2	0.2	8.64E-05				
Dibutyl phthalate	84-74-2	-	1000	2.52E+00				
Dicamba	1918-00-9	-	300	7.76E-02				
1,2-Dichlorobenzene	95-50-1	600	600	5.84E-01				
1,3-Dichlorobenzene	541-73-1	-	600	5.76E-01				
1,4-Dichlorobenzene	106-46-7	75	75	7.20E-02				
Dichlorodifluoromethane	75-71-8	-	1000	1.54E+00				
1,1-Dichloroethane	75-34-3	-	850	2.42E-01				
1,2-Dichloroethane	107-06-2	5	5	1.42E-03				
1,1-Dichloroethylene	75-35-4	7	7	2.51E-03				
1,2-Dichloroethylene (cis)	156-59-2	70	70	2.06E-02				
1,2-Dichloroethylene (trans)	156-60-5	100	100	2.94E-02				
2,4-Dichlorophenoxyacetic acid (2,4-D)	94-75-7	70	70	1.81E-02				
1,2-Dichloropropane	78-87-5	5	5	1.66E-03				
1,3-Dichloropropene (cis/trans) (Telone)	542-75-6	-	0.4	1.43E-04				
Di (2-ethylhexyl) phthalate	117-81-7	6	6	1.44E+00				
Dimethoate	60-51-5	-	2	4.51E-04				
2,4-Dinitrotoluene	121-14-2	-	0.05	6.76E-05				
2,6-Dinitrotoluene	606-20-2	-	0.05	6.88E-05				
Dinitrotoluene, Total Residues	25321-14-6	-	0.05	6.89E-05				
Dinoseb	88-85-7	7	7	6.15E-02				
1,4-Dioxane (p-dioxane)	123-91-1	-	3	6.18E-04				
Dioxin (2,3,7,8-TCDD)	1746-01-6	0	0	1.50E-05				
Endrin	72-20-8	2	2	8.08E-02				
EPTC	759-94-4	-	250	1.32E-01				

No RSL result for: Asbestos; Boscalid; [illegible]

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Fed 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)	Individual Exceedance
Ethylbenzene	100-41-4	700	700	7.85E-01			
Ethyl Ether (Diethyl Ether)	60-29-7	-	1000	2.24E-01			
Ethylene glycol	107-21-1	-	14000	2.82E+00			
Fluoranthene	206-44-0	-	400	4.44E+01			
Fluorene (PAH)	86-73-7	-	400	7.41E+00			
Fluoride	7782-41-4	4000	4000	6.01E+02			
Fluorotrichloromethane	75-69-4		3490	2.23E+00			
Formaldehyde	50-00-0		1000	2.02E-01			
Heptachlor	76-44-8	0.4	0.4	3.31E-02			
Heptachlor epoxide	1024-57-3	0.2	0.2	4.08E-03			
Hexachlorobenzene	118-74-1	1	1	1.26E-02			
n-Hexane	110-54-3		600	4.22E+00			
Lead	7439-92-1	15	15	1.35E+01			
Lindane	58-89-9	0.2	0.2	1.16E-03			
Manganese	7439-96-5	-	300	1.96E+01			
Mercury	7439-97-6	2	2	1.04E-01			
Methanol	67-56-1	-	5000	1.01E+00			
Methoxychlor	72-43-5	40	40	2.16E+00			
Methylene chloride	75-09-2	5	5	1.28E-03			
Methyl ethyl ketone (MEK)	78-93-3	-	4000	8.39E-01			
Methyl isobutyl ketone (MIBK)	108-10-1	-	500	1.13E-01			
Methyl tert-butyl ether (MTBE)	1634-04-4	-	60	1.35E-02			
Metolachlor/s-Metolachlor	51218-45-2	-	100	1.17E-01			
Metribuzin	21087-64-9	-	70	2.14E-02			
Molybdenum	7439-98-7	-	40	8.08E-01			
Monochlorobenzene	108-90-7	100	100	6.79E-02			
Naphthalene	91-20-3	-	100	3.29E-01			
Nickel	7440-02-0	-	100	6.50E+00			
N-Nitrosodiphenylamine (NDPA)	86-30-6	-	7	3.82E-02			
Pentachlorophenol (PCP)	87-86-5	1	1	1.01E-02			
Phenol	108-95-2	-	2000	1.15E+00			
Picloram	1918-02-1	500	500	1.39E-01			
Polychlorinated biphenyls (PCBs)	1336-36-3	0.5	0.03	4.69E-03			
Prometon	1610-18-0	-	100	4.75E-02			
Propazine	139-40-2	-	10	8.86E-03			
Pyrene (PAH)	129-00-0	-	250	2.72E+01			
Pyridine	110-86-1	-	10	3.44E-03			
Selenium	7782-49-2	50	50	2.60E-01			
Silver	7440-22-4	-	50	4.25E-01			
Simazine	122-34-9	4	4	1.97E-03			
Styrene	100-42-5	100	100	1.10E-01			
Tertiary Butyl Alcohol (TBA)	75-65-0	-	12	2.45E-03			
1,1,1,2-Tetrachloroethane	630-20-6	-	70	2.67E-02			
1,1,2,2-Tetrachloroethane	79-34-5	-	0.2	7.80E-05			
Tetrachloroethylene (PCE)	127-18-4	5	5	2.27E-03			
Tetrahydrofuran	109-99-9	-	50	1.11E-02			
Thallium	7440-28-0	2	2	1.42E-01			
Toluene	108-88-3	1000	800	5.54E-01			
Toxaphene	8001-35-2	3	3	4.64E-01			
1,2,4-Trichlorobenzene	120-82-1	70	70	2.04E-01			
1,1,1-Trichloroethane	71-55-6	200	200	7.01E-02			
1,1,2-Trichloroethane	79-00-5	5	5	1.62E-03			
Trichloroethylene (TCE)	79-01-6	5	5	1.79E-03			
[illegible]	93-72-1	50	50	2.75E-02			
1,2,3-Trichloropropane	96-18-4	-	60	2.60E-02			
Trifluralin	1582-09-8	-	7.5	2.48E-01			
[illegible]	95-63-6 / 108-67-8	-	480	6.90E-01			
Vanadium	7440-62-2						
Vinyl chloride	75-01-4	2	0.2	6.90E-05			
Xylenes (m-, o-, p- combined)	1330-20-7	10000	2000	1.97E+00			

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

Site-specific

Resident Equation Inputs for Soil

Variable	Value
TR (target cancer risk) unitless	1.0E-6
ED_r (exposure duration - resident) year	30
ET_{rs} (exposure time - resident) hour	24
ED_c (exposure duration - child) year	6
ED_a (exposure duration - adult) year	24
BW_a (body weight - adult) kg	70
BW_c (body weight - child) kg	15
SA_a (skin surface area - adult) cm^2/day	5700
SA_c (skin surface area - child) cm^2/day	2800
THQ (target hazard quotient) unitless	1
LT (lifetime - resident) year	70
EF_r (exposure frequency) day/year	350
IRS_a (soil intake rate - adult) mg/day	100
IRS_c (soil intake rate - child) mg/day	200
AF_a (skin adherence factor - adult) mg/cm^2	0.07
AF_c (skin adherence factor - child) mg/cm^2	0.2
IFS_{adj} (age-adjusted soil ingestion factor) mg-year/kg-day	114
DFS_{adj} (age-adjusted soil dermal factor) mg-year/kg-day	361
$IFSM_{adj}$ (mutagenic age-adjusted soil ingestion factor) mg-year/kg-day	489.5
$DFSM_{adj}$ (mutagenic age-adjusted soil dermal factor) mg-year/kg-day	1445
ED_{0-2} (exposure duration first phase) year	2
ED_{2-6} (exposure duration second phase) year	4
ED_{6-16} (exposure duration third phase) year	10
ED_{16-30} (exposure duration fourth phase) year	14
City (Climate Zone) PEF Selection	Chicago, IL (7)
A_s (acres) PEF Selection	0.5
Q/C_{wp} (g/m^2-s per kg/m^3) PEF Selection	98.43071
PEF (particulate emission factor) m^3/kg	1560521108
A (PEF Dispersion Constant)	16.8653

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Site-specific

Resident Equation Inputs for Soil

Variable	Value
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) VF Selection	0.5
Q/C_{wp} (g/m^2-s per kg/m^3) VF Selection	98.43071
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
θ$_w$ (water-filled soil porosity) L_{water}/L_{soil}	0.15
T (exposure interval) s	9.5e8
A (VF Dispersion Constant)	16.8653
B (VF Dispersion Constant)	18.7848
C (VF Dispersion Constant)	215.0624

site-specific

esident Screening Levels (RSL) for Soil

=Cancer; nc=Noncancer; ca* (Where nc SL < 100X ca SL)
** (where nc SL < 10X ca SL); max=SL exceeds ceiling limit (see User's Guide); sat=SL exceeds csat
max=Soil SL exceeds ceiling limit and has been substituted with the max value (see User's Guide)
sat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF $(mg/kg\text{-}day)^{-1}$	SFO Ref	Inhalation Unit Risk $(ug/m^3)^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	RfD Ref	Chronic RfC (mg/m^3)	RfC Ref	GIABS	ABS	RBA
enzene	71-43-2	No	Yes	5.50E-02	I	7.80E-06	I	4.00E-03	I	3.00E-02	I	1	-	1
admium (Diet)	7440-43-9	No	No	-		1.80E-03	I	1.00E-03	I	1.00E-05	A	0.025	0.001	1
arbon Tetrachloride	56-23-5	No	Yes	7.00E-02	I	6.00E-06	I	4.00E-03	I	1.00E-01	I	1	-	1
ibromoethane, 1,2-	106-93-4	No	Yes	2.00E+00	I	6.00E-04	I	9.00E-03	I	9.00E-03	I	1	-	1
ichloroethane, 1,2-	107-06-2	No	Yes	9.10E-02	I	2.60E-05	I	6.00E-03	X	7.00E-03	P	1	-	1
ichloroethylene, 1,1-	75-35-4	No	Yes	-		-		5.00E-02	I	2.00E-01	I	1	-	1
ichloroethylene, 1,2-cis-	156-59-2	No	Yes					2.00E-03	I	-		1	-	1
ichloroethylene, 1,2-trans-	156-60-5	No	Yes	-		-		2.00E-02	I	6.00E-02	P	1	-	1
thylbenzene	100-41-4	No	Yes	1.10E-02	C	2.50E-06	C	1.00E-01	I	1.00E+00	I	1	-	1
ead and Compounds	7439-92-1	No	No	-		-		-		-		1	-	1
ethyl tert-Butyl Ether (MTBE)	1634-04-4	No	Yes	1.80E-03	C	2.60E-07	C	-		3.00E+00	I	1	-	1
Acenaphthene	83-32-9	No	Yes	-		-		6.00E-02	I	-		1	0.13	1
Anthracene	120-12-7	No	Yes					3.00E-01	I	-		1	0.13	1
Benz[a]anthracene	56-55-3	Yes	No	7.30E-01	W	1.10E-04	C	-		-		1	0.13	1
Benzo(j)fluoranthene	205-82-3	No	No	1.20E+00	C	1.10E-04	C	-		-		1	0.13	1
Benzo[a]pyrene	50-32-8	Yes	No	7.30E+00	I	1.10E-03	C	-		-		1	0.13	1
Benzo[b]fluoranthene	205-99-2	Yes	No	7.30E-01	W	1.10E-04	C	-		-		1	0.13	1
Benzo[k]fluoranthene	207-08-9	Yes	No	7.30E-02	W	1.10E-04	C	-		-		1	0.13	1
Chrysene	218-01-9	Yes	No	7.30E-03	W	1.10E-05	C	-		-		1	0.13	1
Dibenz[a,h]anthracene	53-70-3	Yes	No	7.30E+00	W	1.20E-03	C	-		-		1	0.13	1
Dibenzo(a,e)pyrene	192-65-4	No	No	1.20E+01	C	1.10E-03	C	-		-		1	0.13	1
Dimethylbenz(a)anthracene, 7,12-	57-97-6	Yes	No	2.50E+02	C	7.10E-02	C	-		-		1	0.13	1
Fluoranthene	206-44-0	No	No					4.00E-02	I	-		1	0.13	1
Fluorene	86-73-7	No	Yes	-		-		4.00E-02	I	-		1	0.13	1
Indeno[1,2,3-cd]pyrene	193-39-5	Yes	No	7.30E-01	W	1.10E-04	C	-		-		1	0.13	1
Methylnaphthalene, 1-	90-12-0	No	Yes	2.90E-02	P	-		7.00E-02	A	-		1	0.13	1
Methylnaphthalene, 2-	91-57-6	No	Yes					4.00E-03	I	-		1	0.13	-
Naphthalene	91-20-3	No	Yes	-		3.40E-05	C	2.00E-02	I	3.00E-03	I	1	0.13	1

Site-specific

Resident Screening Levels (RSL) for Soil

ca=Cancer, nc=Noncancer, ca*(Where nc SL < 100x ca SL)
ca**(Where nc SL < 10x 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	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)	Ingestion SL Child HQ=1 (mg/kg)	Dermal SL Child HQ=1 (mg/kg)	Inhalation SL Child HQ=1 (mg/kg)
Benzene	5.49E+03	1.82E+03	1.56E+09	1.16E+01	-	1.71E+00	1.49E+00	3.13E+02	-	1.72E+02
Cadmium (Diet)	-	-	1.56E+09	-	-	2.11E+03	2.11E+03	7.82E+01	6.98E+02	1.63E+04
Carbon Tetrachloride	2.32E+03	4.58E+02	1.56E+09	9.15E+00	-	9.42E-01	8.54E-01	3.13E+02	-	2.42E+02
Dibromoethane, 1,2-	1.34E+04	1.34E+03	1.56E+09	3.20E-01	-	5.45E-02	4.65E-02	7.04E+02	-	1.26E+02
Dichloroethane, 1,2-	7.15E+03	2.98E+03	1.56E+09	7.04E+00	-	6.65E-01	6.08E-01	4.69E+02	-	5.19E+01
Dichloroethylene, 1,1-	1.80E+03	1.19E+03	1.56E+09	-	-	-	-	3.91E+03	-	3.75E+02
Dichloroethylene, 1,2-cis-	3.58E+03	2.37E+03	1.56E+09	-	-	-	-	1.56E+02	-	-
Dichloroethylene, 1,2-trans-	3.90E+03	1.67E+03	1.56E+09	-	-	-	-	1.56E+03	-	2.44E+02
Ethylbenzene	8.81E+03	4.80E+02	1.56E+09	5.82E+01	-	8.57E+00	7.47E+00	7.82E+03	-	9.18E+03
Lead and Compounds	-	-	1.56E+09	-	-	-	-	-	-	-
Methyl tert-Butyl Ether (MTBE)	7.62E+03	8.87E+03	1.56E+09	3.56E+02	-	7.13E+01	5.94E+01	-	-	2.38E+04
Acenaphthene	2.19E+05	-	1.56E+09	-	-	-	-	4.69E+03	1.29E+04	-
Anthracene	8.13E+05	-	1.56E+09	-	-	-	-	2.35E+04	6.45E+04	-
Benz[a]anthracene	-	-	1.56E+09	2.04E-01	5.32E-01	1.36E+04	1.48E-01	-	-	-
Benzo(j)fluoranthene	-	-	1.56E+09	5.34E-01	1.30E+00	3.45E+04	3.78E-01	-	-	-
Benzo[a]pyrene	-	-	1.56E+09	2.04E-02	5.32E-02	1.36E+03	1.48E-02	-	-	-
Benzo[b]fluoranthene	-	-	1.56E+09	2.04E-01	5.32E-01	1.36E+04	1.48E-01	-	-	-
Benzo[k]fluoranthene	-	-	1.56E+09	2.04E+00	5.32E+00	1.36E+04	1.48E+00	-	-	-
Chrysene	-	-	1.56E+09	2.04E+01	5.32E+01	1.36E+05	1.48E+01	-	-	-
Dibenz[a,h]anthracene	-	-	1.56E+09	2.04E-02	5.32E-02	1.25E+03	1.48E-02	-	-	-
Dibenzo(a,e)pyrene	-	-	1.56E+09	5.34E-02	1.30E-01	3.45E+03	3.78E-02	-	-	-
Dimethylbenz(a)anthracene, 7,12-	-	-	1.56E+09	5.97E-04	1.55E-03	2.11E+01	4.31E-04	-	-	-
Fluoranthene	-	-	1.56E+09	-	-	-	-	3.13E+03	8.59E+03	-
Fluorene	4.37E+05	-	1.56E+09	-	-	-	-	3.13E+03	8.59E+03	-
Indeno[1,2,3-cd]pyrene	-	-	1.56E+09	2.04E-01	5.32E-01	1.36E+04	1.48E-01	-	-	-
Methylnaphthalene, 1-	9.11E+04	-	1.56E+09	2.21E+01	5.36E+01	-	1.56E+01	5.48E+03	1.50E+04	-
Methylnaphthalene, 2-	9.01E+04	-	1.56E+09	-	-	-	-	3.13E+02	8.59E+02	-
Naphthalene	7.20E+04	-	1.56E+09	-	-	5.15E+00	5.15E+00	1.56E+03	4.30E+03	2.25E-02

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Site-specific

Resident Screening Levels (RSL) for Soil

ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100X ca SL), ca** (Where nc SL < 10X ca SL), max=SL exceeds ceiling limit (see User's Guide), sat=SL exceeds csat

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

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

Chemical	Noncarcinogenic SL Child HI=1 (mg/kg)	Ingestion SL Adult HQ=1 (mg/kg)	Dermal SL Adult HQ=1 (mg/kg)	Inhalation SL Adult HQ=1 (mg/kg)	Noncarcinogenic SL Adult HI=1 (mg/kg)	Screening Level (mg/kg)
Benzene	1.11E+02	2.92E+03	-	1.72E+02	1.62E+02	1.49E+00 ca
Cadmium (Diet)	7.00E+01	7.30E+02	4.57E+03	1.63E+04	6.06E+02	7.00E+01 nc
Carbon Tetrachloride	1.37E+02	2.92E+03	-	2.42E+02	2.24E+02	8.54E-01 ca
Dibromoethane, 1,2-	1.07E+02	6.57E+03	-	1.26E+02	1.24E+02	4.65E-02 ca
Dichloroethane, 1,2-	4.67E+01	4.38E+03	-	5.19E+01	5.13E+01	6.08E-01 ca
Dichloroethylene, 1,1-	3.42E+02	3.65E+04	-	3.75E+02	3.71E+02	3.42E+02 nc
Dichloroethylene, 1,2-cis-	1.56E+02	1.46E+03	-	-	1.46E+03	1.56E+02 nc
Dichloroethylene, 1,2-trans-	2.11E+02	1.46E+04	-	2.44E+02	2.40E+02	2.11E+02 nc
Ethylbenzene	4.22E+03	7.30E+04	-	9.18E+03	8.16E+03	7.47E+00 ca
Lead and Compounds	-	-	-	-	-	4.00E+02 nc
Methyl tert-Butyl Ether (MTBE)	2.38E+04	-	-	2.38E+04	2.38E+04	5.94E+01 ca
Acenaphthene	3.44E+03	4.38E+04	8.44E+04	-	2.88E+04	3.44E+03 nc
Anthracene	1.72E+04	2.19E+05	4.22E+05	-	1.44E+05	1.72E+04 nc
Benz[a]anthracene	-	-	-	-	-	1.48E-01 ca
Benzo(j)fluoranthene	-	-	-	-	-	3.78E-01 ca
Benzo[a]pyrene	-	-	-	-	-	1.48E-02 ca
Benzo[b]fluoranthene	-	-	-	-	-	1.48E-01 ca
Benzo[k]fluoranthene	-	-	-	-	-	1.48E+00 ca
Chrysene	-	-	-	-	-	1.48E+01 ca
Dibenz[a,h]anthracene	-	-	-	-	-	1.48E-02 ca
Dibenzo(a,e)pyrene	-	-	-	-	-	3.78E-02 ca
Dimethylbenz(a)anthracene, 7,12-	-	-	-	-	-	4.81E-04 ca
Fluoranthene	2.29E+03	2.92E+04	5.63E+04	-	1.92E+04	2.29E+03 nc
Fluorene	2.29E+03	2.92E+04	5.63E+04	-	1.92E+04	2.29E+03 nc
Indeno[1,2,3-cd]pyrene	-	-	-	-	-	1.48E-01 ca
Methylnaphthalene, 1-	4.01E+03	5.11E+04	9.85E+04	-	3.36E+04	1.56E+01 ca
Methylnaphthalene, 2-	2.29E+02	2.92E+03	5.63E+03	-	1.92E+03	2.29E+02 nc
Naphthalene	1.88E+02	1.46E+04	2.81E+04	2.25E+02	2.20E+02	5.45E+00 ca

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ite-specific

esident Screening Levels (RSL) for Soil

=Cancer; nc=Noncancer; ca* (Where nc SL < 100X ca SL);

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

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

sat = Soil Inhalation SL exceeds csat and has been substituted with the csat.

Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF $(mg/kg\text{-}day)^{-1}$	SFO Ref	Inhalation Unit Risk $(ug/m^3)^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	RfD Ref	Chronic RfC (mg/m^3)	RfC Ref	GIABS	ABS	RBA
itropyrene, 4-	57835-92-4	No	No	1.20E+00	C	1.10E-04	C	-		-		1	0.13	1
yrene	129-00-0	No	Yes	-		-		3.00E-02	I	-		1	0.13	1
etrachloroethylene	127-18-4	No	Yes	2.10E-03	I	2.60E-07	I	6.00E-03	I	4.00E-02	I	1	-	1
oluene	108-88-3	No	Yes	-		-		8.00E-02	I	5.00E+00	I	1	-	1
richloroethane, 1,1,1-	71-55-6	No	Yes					2.00E+00	I	5.00E+00	I	1	-	1
richloroethylene	79-01-6	Yes	Yes	4.60E-02	I	4.10E-06	I	5.00E-04	I	2.00E-03	I	1	-	1
rimethylbenzene, 1,2,4-	95-63-6	No	Yes					-		7.00E-03	P	1	-	1
rimethylbenzene, 1,3,5-	108-67-8	No	Yes	-		-		1.00E-02	X	-		1	-	1
inyl Chloride	75-01-4	Yes	Yes	7.20E-01	I	4.40E-06	I	3.00E-03	I	1.00E-01	I	1	-	1
ylenes	1330-20-7	No	Yes	-		-		2.00E-01	I	1.00E-01	I	1	-	1

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	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)	Ingestion SL Child HQ=1 (mg/kg)	Dermal SL Child HQ=1 (mg/kg)	Inhalation SL Child HQ=1 (mg/kg)
Nitropyrene, 4-	-	-	1.56E+09	5.34E-01	1.30E+00	3.45E+04	3.78E-01	-	-	-
Pyrene	3.70E+06	-	1.56E+09	-	-	-	-	2.35E+03	6.45E+03	-
Tetrachloroethylene	3.65E+03	1.66E+02	1.56E+09	3.05E+02	-	3.41E+01	3.07E+01	4.69E+02	-	1.52E+02
Toluene	6.66E+03	8.18E+02	1.56E+09	-	-	-	-	6.26E+03	-	3.47E+04
Trichloroethane, 1,1,1-	2.56E+03	6.40E+02	1.56E+09	-	-	-	-	1.56E+05	-	1.34E+04
Trichloroethylene	3.43E+03	6.92E+02	1.56E+09	3.24E+00	-	8.04E-01	6.44E-01	3.91E+01	-	7.16E+00
Trimethylbenzene, 1,2,4-	1.23E+04	2.19E+02	1.56E+09	-	-	-	-	-	-	8.98E+01
Trimethylbenzene, 1,3,5-	1.03E+04	1.82E+02	1.56E+09	-	-	-	-	7.82E+02	-	-
Vinyl Chloride	1.49E+03	3.92E+03	1.56E+09	9.32E-02	-	2.39E-01	6.71E-02	2.35E+02	-	1.55E-02
Xylenes	9.05E+03	2.58E+02	1.56E+09	-	-	-	-	1.56E+04	-	9.44E-02

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Site-specific

Resident Screening Levels (RSL) for Soil

ca=Cancer; nc=Noncancer; ca* (Where nc SL < 100X ca SL);
ca** (Where nc SL < 10X 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	Noncarcinogenic SL Child HI=1 (mg/kg)	Ingestion SL Adult HQ=1 (mg/kg)	Dermal SL Adult HQ=1 (mg/kg)	Inhalation SL Adult HQ=1 (mg/kg)	Noncarcinogenic SL Adult HI=1 (mg/kg)	Screening Level (mg/kg)
Nitropyrene, 4-	-	-	-	-	-	3.78E-01 ca
Pyrene	1.72E+03	2.19E+04	4.22E+04	-	1.44E+04	1.72E+03 nc
Tetrachloroethylene	1.15E+02	4.38E+03	-	1.52E+02	1.47E+02	8.07E+01 ca*
Toluene	5.30E+03	5.84E+04	-	3.47E+04	2.18E+04	5.30E+03 nc
Trichloroethane, 1,1,1-	1.23E+04	1.46E+06	-	1.34E+04	1.32E+04	1.23E+04 nc
Trichloroethylene	6.05E+00	3.65E+02	-	7.16E+00	7.02E+00	6.44E-01 ca*
Trimethylbenzene, 1,2,4-	8.98E+01	-	-	8.98E+01	8.98E+01	8.98E+01 nc
Trimethylbenzene, 1,3,5-	7.82E+02	7.30E+03	-	-	7.30E+03	7.82E+02 nc
Vinyl Chloride	9.33E+01	2.19E+03	-	1.55E+02	1.45E+02	6.71E-02 ca
Xylenes	8.90E+02	1.46E+05	-	9.44E+02	9.37E+02	8.90E+02 nc

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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. (20j) and (20m), Register, March, 1994, No. 459, eff. 4-1-94; cr. (1s), (10c), (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 [illegible] Register June 2003 No. 570, eff. 7-1-03.

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 diaminochlorotrazine).

[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

A.7 Other
Dave's Gas Station (Former)
Slug Test Calculations

MW-1

	ft/s	cm/s	m/yr
K	1.12E-05	3.41E-04	107.66
	sq ft/s	**sq cm/s**	
T	9.00E-05	8.36E-02	

MW-2

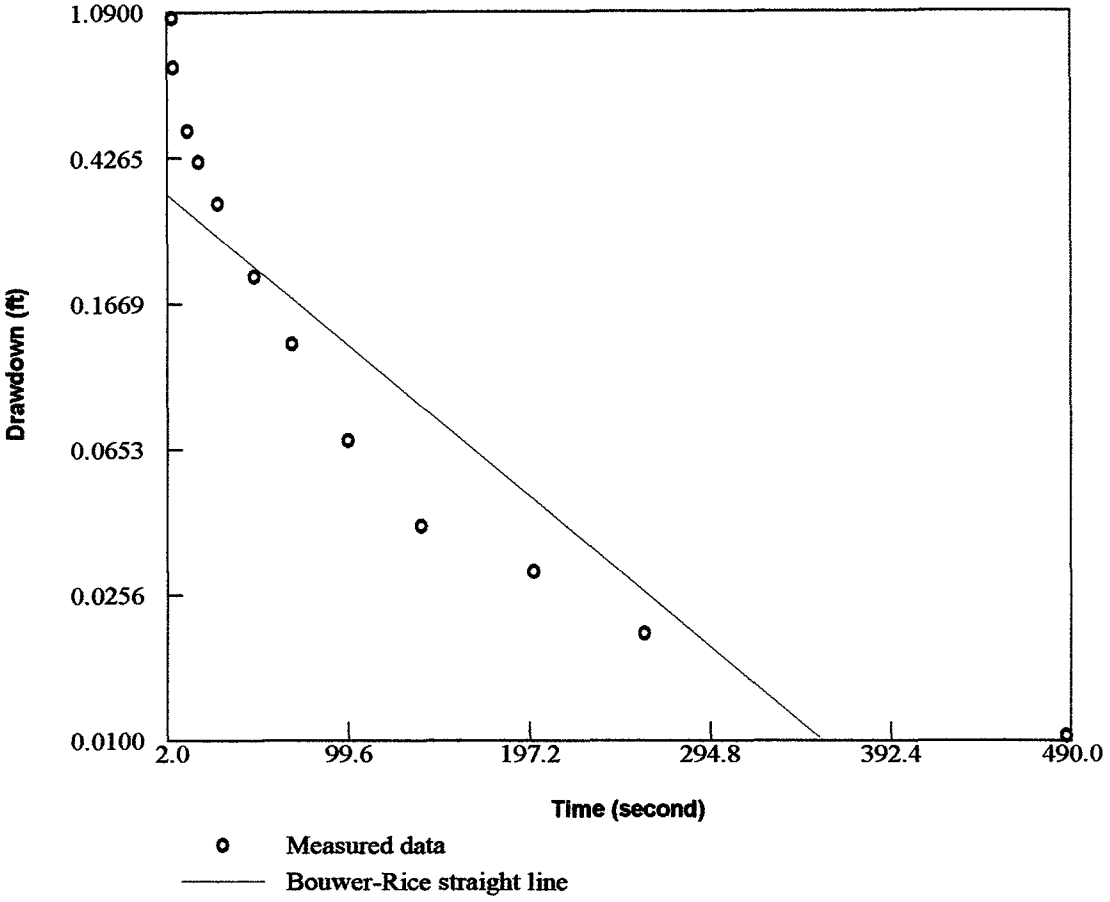
	ft/s	cm/s	m/yr
K	9.78E-06	2.98E-04	94.01
	sq ft/s	**sq cm/s**	
T	8.65E-05	8.03E-02	

MW-4

	ft/s	cm/s	m/yr
K	4.00E-06	1.22E-04	38.45
	sq ft/s	**sq cm/s**	
T	3.71E-05	3.45E-02	

Date	Elv. (High)	Elv. (Low)	Distance (ft)	Hyd Grad (I)
11/4/2015	932.90	932.30	35	0.0171429
2/9/2016	933.20	932.40	66	0.0121212
Average				0.0146320

	K (m/yr)	I	n	Flow Velocity (m/yr)
MW-1	107.66	0.0146320	0.3	5.25094
MW-2	94.01	0.0146320	0.3	4.58518
MW-4	38.45	0.0146320	0.3	1.87533



Aquifer Parameters by the Bouwer and Rice Slug Test	
Hydraulic Conductivity (ft/s):	1.12e-005
Transmissivity (sq ft/s):	9.00e-005

Dave's Gas Station (Former) MW-1 Slug Out

Dave's Gas Station (Former)
MW-1 (Slug Out)

Pressure[ft]	Temperature[°C]	Time (Seconds)	Drawdown
39.55	13.89	0	0.64
39.1	13.89	2	1.09
39.29	13.89	4	0.91
39.42	13.89	6	0.77
39.51	13.9	8	0.68
39.58	13.9	10	0.61
39.63	13.9	12	0.56
39.68	13.9	14	0.51
39.71	13.9	16	0.48
39.75	13.9	18	0.44
39.77	13.9	20	0.42
39.79	13.9	22	0.4
39.81	13.9	24	0.38
39.84	13.9	26	0.35
39.85	13.9	28	0.34
39.87	13.91	30	0.32
39.89	13.91	32	0.3
39.9	13.91	34	0.29
39.91	13.91	36	0.28
39.93	13.91	38	0.26
39.93	13.91	40	0.26
39.95	13.91	42	0.24
39.96	13.91	44	0.23
39.96	13.92	46	0.23
39.98	13.92	48	0.21
39.99	13.92	50	0.2
40	13.92	52	0.19
40.01	13.92	54	0.18
40.01	13.92	56	0.18
40.02	13.92	58	0.17
40.03	13.92	60	0.16
40.04	13.92	62	0.15
40.04	13.92	64	0.15
40.04	13.92	66	0.15
40.05	13.92	68	0.14
40.06	13.92	70	0.13
40.07	13.92	72	0.12
40.07	13.92	74	0.12
40.08	13.92	76	0.11
40.08	13.92	78	0.11
40.09	13.92	80	0.1
40.09	13.93	82	0.1
40.1	13.93	84	0.09
40.1	13.93	86	0.09
40.1	13.93	88	0.09
40.1	13.93	90	0.09
40.1	13.93	92	0.09

Dave's Gas Station (Former)
MW-1 (Slug Out)

40.11	13.93	94	0.08
40.11	13.93	96	0.08
40.11	13.93	98	0.08
40.12	13.93	100	0.07
40.12	13.93	102	0.07
40.12	13.93	104	0.07
40.13	13.93	106	0.06
40.13	13.94	108	0.06
40.13	13.94	110	0.06
40.13	13.93	112	0.06
40.13	13.93	114	0.06
40.13	13.93	116	0.06
40.13	13.94	118	0.06
40.13	13.93	120	0.06
40.13	13.94	122	0.06
40.14	13.93	124	0.05
40.13	13.93	126	0.06
40.13	13.94	128	0.06
40.13	13.93	130	0.06
40.14	13.93	132	0.05
40.14	13.93	134	0.05
40.14	13.94	136	0.05
40.14	13.93	138	0.05
40.15	13.94	140	0.04
40.15	13.93	142	0.04
40.15	13.94	144	0.04
40.15	13.94	146	0.04
40.15	13.93	148	0.04
40.15	13.93	150	0.04
40.15	13.94	152	0.04
40.15	13.93	154	0.04
40.15	13.94	156	0.04
40.15	13.94	158	0.04
40.15	13.93	160	0.04
40.15	13.94	162	0.04
40.15	13.93	164	0.04
40.15	13.93	166	0.04
40.15	13.93	168	0.04
40.15	13.94	170	0.04
40.16	13.94	172	0.03
40.15	13.93	174	0.04
40.15	13.93	176	0.04
40.15	13.94	178	0.04
40.15	13.94	180	0.04
40.15	13.94	182	0.04
40.15	13.94	184	0.04
40.15	13.94	186	0.04
40.15	13.94	188	0.04

Dave's Gas Station (Former)
MW-1 (Slug Out)

40.15	13.94	190	0.04
40.15	13.94	192	0.04
40.16	13.94	194	0.03
40.16	13.94	196	0.03
40.16	13.93	198	0.03
40.16	13.94	200	0.03
40.17	13.94	202	0.02
40.17	13.94	204	0.02
40.17	13.94	206	0.02
40.16	13.94	208	0.03
40.16	13.94	210	0.03
40.16	13.94	212	0.03
40.17	13.94	214	0.02
40.16	13.94	216	0.03
40.17	13.94	218	0.02
40.16	13.94	220	0.03
40.16	13.93	222	0.03
40.16	13.94	224	0.03
40.16	13.94	226	0.03
40.17	13.94	228	0.02
40.17	13.94	230	0.02
40.16	13.94	232	0.03
40.16	13.94	234	0.03
40.17	13.94	236	0.02
40.17	13.93	238	0.02
40.17	13.93	240	0.02
40.17	13.94	242	0.02
40.17	13.93	244	0.02
40.17	13.94	246	0.02
40.17	13.94	248	0.02
40.17	13.93	250	0.02
40.17	13.93	252	0.02
40.17	13.93	254	0.02
40.17	13.93	256	0.02
40.17	13.93	258	0.02
40.17	13.93	260	0.02
40.17	13.93	262	0.02
40.16	13.93	264	0.03
40.17	13.94	266	0.02
40.17	13.93	268	0.02
40.16	13.93	270	0.03
40.17	13.93	272	0.02
40.17	13.93	274	0.02
40.17	13.93	276	0.02
40.17	13.93	278	0.02
40.17	13.93	280	0.02
40.16	13.93	282	0.03
40.17	13.93	284	0.02

Dave's Gas Station (Former)
MW-1 (Slug Out)

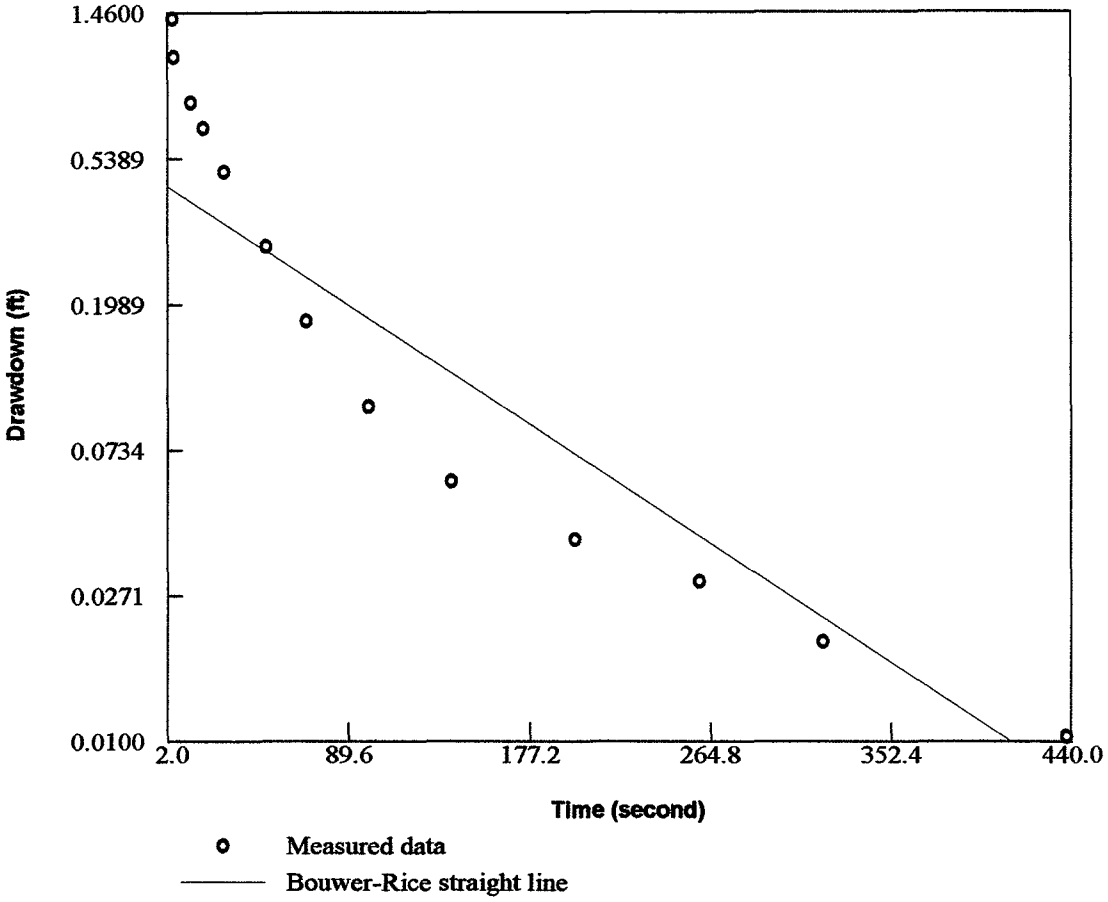
40.17	13.93	286	0.02
40.16	13.93	288	0.03
40.17	13.93	290	0.02
40.17	13.93	292	0.02
40.17	13.93	294	0.02
40.16	13.93	296	0.03
40.17	13.94	298	0.02
40.16	13.93	300	0.03
40.17	13.94	302	0.02
40.16	13.93	304	0.03
40.16	13.94	306	0.03
40.17	13.93	308	0.02
40.18	13.94	310	0.02
40.17	13.93	312	0.02
40.17	13.93	314	0.02
40.17	13.94	316	0.02
40.17	13.94	318	0.02
40.17	13.94	320	0.02
40.17	13.94	322	0.02
40.17	13.94	324	0.02
40.17	13.94	326	0.02
40.17	13.93	328	0.02
40.17	13.93	330	0.02
40.17	13.94	332	0.02
40.17	13.94	334	0.02
40.17	13.93	336	0.02
40.17	13.93	338	0.02
40.16	13.94	340	0.03
40.16	13.93	342	0.03
40.17	13.93	344	0.02
40.17	13.94	346	0.02
40.18	13.93	348	0.02
40.18	13.93	350	0.02
40.17	13.93	352	0.02
40.17	13.93	354	0.02
40.17	13.93	356	0.02
40.17	13.93	358	0.02
40.16	13.93	360	0.03
40.17	13.93	362	0.02
40.17	13.93	364	0.02
40.17	13.93	366	0.02
40.17	13.93	368	0.02
40.17	13.93	370	0.02
40.17	13.93	372	0.02
40.17	13.93	374	0.02
40.17	13.93	376	0.02
40.17	13.93	378	0.02
40.17	13.93	380	0.02

Dave's Gas Station (Former)
MW-1 (Slug Out)

40.17	13.93	382	0.02
40.17	13.93	384	0.02
40.18	13.93	386	0.02
40.18	13.93	388	0.02
40.17	13.93	390	0.02
40.17	13.93	392	0.02
40.18	13.93	394	0.02
40.18	13.93	396	0.02
40.18	13.93	398	0.02
40.18	13.93	400	0.02
40.17	13.93	402	0.02
40.18	13.94	404	0.02
40.18	13.94	406	0.02
40.17	13.94	408	0.02
40.18	13.93	410	0.02
40.17	13.93	412	0.02
40.17	13.93	414	0.02
40.17	13.94	416	0.02
40.17	13.93	418	0.02
40.17	13.93	420	0.02
40.17	13.93	422	0.02
40.17	13.93	424	0.02
40.17	13.93	426	0.02
40.17	13.93	428	0.02
40.17	13.93	430	0.02
40.17	13.93	432	0.02
40.17	13.93	434	0.02
40.18	13.93	436	0.02
40.17	13.93	438	0.02
40.17	13.93	440	0.02
40.17	13.93	442	0.02
13.12	-20	444	27.07
40.17	13.93	446	0.02
40.16	13.93	448	0.03
40.17	13.93	450	0.02
40.17	13.94	452	0.02
40.17	13.93	454	0.02
40.17	13.93	456	0.02
40.17	13.93	458	0.02
40.17	13.93	460	0.02
40.17	13.93	462	0.02
40.17	13.93	464	0.02
40.17	13.93	466	0.02
40.17	13.93	468	0.02
40.17	13.93	470	0.02
40.17	13.93	472	0.02
40.17	13.93	474	0.02
40.17	13.93	476	0.02

Dave's Gas Station (Former)
MW-1 (Slug Out)

40.17	13.93	478	0.02
40.17	13.93	480	0.02
40.17	13.93	482	0.02
40.18	13.93	484	0.02
40.18	13.93	486	0.02
40.18	13.93	488	0.02
40.18	13.93	490	0.01
40.18	13.93	492	0.01
40.18	13.93	494	0.01
40.19	13.93	496	0



Aquifer Parameters by the Bouwer and Rice Slug Test	
Hydraulic Conductivity (ft/s):	9.78e-006
Transmissivity (sq ft/s):	8.65e-005

Dave's Gas Station (Former) MW-2 Slug Out

Dave's Gas Station (Former)
MW-2 (Slug Out)

Pressure[ft]	Temperature[°C]	Time (Seconds)	Drawdown
40.58	13.58	0	0
39.12	13.58	2	1.46
39.45	13.58	4	1.13
39.49	13.58	6	1.09
39.58	13.58	8	1
39.65	13.58	10	0.93
39.73	13.58	12	0.85
39.78	13.58	14	0.8
39.83	13.58	16	0.75
39.87	13.58	18	0.71
39.91	13.58	20	0.67
39.95	13.58	22	0.63
39.98	13.58	24	0.6
40.03	13.58	26	0.55
40.06	13.58	28	0.52
40.08	13.58	30	0.5
40.12	13.58	32	0.46
40.13	13.58	34	0.45
40.16	13.58	36	0.42
40.18	13.58	38	0.41
40.2	13.58	40	0.38
40.22	13.58	42	0.36
40.24	13.58	44	0.34
40.26	13.58	46	0.32
40.28	13.57	48	0.3
40.28	13.58	50	0.3
40.3	13.57	52	0.28
40.32	13.58	54	0.26
40.33	13.58	56	0.25
40.35	13.58	58	0.23
40.35	13.58	60	0.23
40.36	13.58	62	0.22
40.37	13.58	64	0.21
40.39	13.57	66	0.19
40.39	13.58	68	0.19
40.4	13.57	70	0.18
40.41	13.58	72	0.17
40.41	13.58	74	0.17
40.43	13.58	76	0.15
40.43	13.58	78	0.15
40.43	13.58	80	0.15
40.43	13.58	82	0.15
40.44	13.58	84	0.14
40.46	13.57	86	0.12
40.46	13.58	88	0.12
40.46	13.58	90	0.12
40.47	13.57	92	0.11

Dave's Gas Station (Former)
MW-2 (Slug Out)

40.47	13.58	94	0.11
40.48	13.57	96	0.1
40.48	13.58	98	0.1
40.48	13.57	100	0.1
40.49	13.58	102	0.09
40.49	13.58	104	0.09
40.49	13.58	106	0.09
40.5	13.57	108	0.08
40.5	13.57	110	0.08
40.49	13.58	112	0.09
40.5	13.57	114	0.08
40.5	13.57	116	0.08
40.5	13.58	118	0.08
40.51	13.57	120	0.07
40.5	13.57	122	0.08
40.5	13.57	124	0.08
40.51	13.57	126	0.07
40.51	13.57	128	0.07
40.51	13.57	130	0.07
40.51	13.57	132	0.07
40.52	13.57	134	0.06
40.52	13.57	136	0.06
40.52	13.57	138	0.06
40.52	13.57	140	0.06
40.52	13.57	142	0.06
40.53	13.57	144	0.05
40.53	13.57	146	0.05
40.53	13.57	148	0.05
40.53	13.57	150	0.05
40.53	13.57	152	0.05
40.53	13.57	154	0.05
40.53	13.57	156	0.05
40.54	13.57	158	0.05
40.54	13.57	160	0.04
40.54	13.57	162	0.05
40.54	13.57	164	0.05
40.54	13.57	166	0.04
40.54	13.57	168	0.04
40.54	13.57	170	0.04
40.54	13.57	172	0.04
40.54	13.57	174	0.04
40.54	13.57	176	0.04
40.54	13.57	178	0.05
40.54	13.57	180	0.05
40.54	13.57	182	0.05
40.54	13.57	184	0.05
40.54	13.57	186	0.05
40.54	13.57	188	0.04

Dave's Gas Station (Former)
MW-2 (Slug Out)

40.54	13.57	190	0.04
40.54	13.57	192	0.04
40.54	13.57	194	0.04
40.54	13.57	196	0.04
40.54	13.57	198	0.04
40.54	13.57	200	0.04
40.54	13.57	202	0.04
40.54	13.57	204	0.04
40.54	13.57	206	0.04
40.54	13.57	208	0.04
40.54	13.57	210	0.04
40.54	13.57	212	0.04
40.54	13.57	214	0.04
40.55	13.57	216	0.03
40.55	13.57	218	0.03
40.55	13.57	220	0.03
40.55	13.56	222	0.03
40.55	13.57	224	0.03
40.55	13.57	226	0.03
40.55	13.56	228	0.03
40.55	13.56	230	0.03
40.55	13.56	232	0.03
40.55	13.56	234	0.03
40.55	13.56	236	0.03
40.55	13.56	238	0.03
40.55	13.56	240	0.03
40.55	13.56	242	0.03
40.55	13.56	244	0.03
40.55	13.56	246	0.03
40.55	13.56	248	0.03
40.55	13.56	250	0.03
40.55	13.56	252	0.03
40.56	13.56	254	0.02
40.55	13.56	256	0.03
40.55	13.56	258	0.03
40.55	13.56	260	0.03
40.56	13.56	262	0.02
40.56	13.56	264	0.02
40.56	13.56	266	0.02
40.56	13.56	268	0.02
40.55	13.56	270	0.03
40.56	13.56	272	0.02
40.56	13.56	274	0.02
40.56	13.56	276	0.02
40.56	13.56	278	0.02
40.56	13.56	280	0.02
40.56	13.56	282	0.02
40.56	13.56	284	0.02

Dave's Gas Station (Former)
MW-2 (Slug Out)

40.56	13.56	286	0.02
40.57	13.56	288	0.01
40.56	13.56	290	0.02
40.57	13.56	292	0.01
40.56	13.56	294	0.02
40.56	13.56	296	0.02
40.56	13.56	298	0.02
40.56	13.56	300	0.02
40.56	13.56	302	0.02
40.56	13.56	304	0.02
40.56	13.55	306	0.02
40.56	13.56	308	0.02
40.56	13.56	310	0.02
40.56	13.55	312	0.02
40.56	13.55	314	0.02
40.56	13.55	316	0.02
40.56	13.55	318	0.02
40.56	13.55	320	0.02
40.57	13.55	322	0.01
40.56	13.55	324	0.02
40.56	13.55	326	0.02
40.56	13.55	328	0.02
40.57	13.55	330	0.01
40.56	13.55	332	0.02
40.56	13.55	334	0.02
40.57	13.55	336	0.01
40.57	13.55	338	0.01
40.57	13.55	340	0.01
40.57	13.55	342	0.01
40.57	13.55	344	0.01
40.57	13.55	346	0.01
40.57	13.55	348	0.01
40.57	13.55	350	0.01
40.57	13.54	352	0.01
40.56	13.55	354	0.02
40.57	13.55	356	0.01
40.57	13.54	358	0.01
40.57	13.55	360	0.01
40.57	13.55	362	0.01
40.57	13.54	364	0.01
40.57	13.55	366	0.01
40.57	13.54	368	0.01
40.57	13.54	370	0.01
40.57	13.55	372	0.01
40.57	13.54	374	0.01
40.57	13.54	376	0.01
40.57	13.54	378	0.01
40.57	13.54	380	0.01

Dave's Gas Station (Former)
MW-2 (Slug Out)

40.57	13.54	382	0.01
40.56	13.54	384	0.02
40.56	13.54	386	0.02
40.57	13.54	388	0.01
40.57	13.54	390	0.01
40.57	13.54	392	0.01
40.57	13.54	394	0.01
40.57	13.54	396	0.01
40.57	13.54	398	0.01
40.56	13.54	400	0.02
40.56	13.54	402	0.02
40.57	13.54	404	0.01
40.57	13.54	406	0.01
40.57	13.54	408	0.01
40.56	13.54	410	0.02
40.57	13.54	412	0.01
40.57	13.54	414	0.01
40.56	13.54	416	0.02
40.57	13.54	418	0.01
40.56	13.54	420	0.02
40.57	13.54	422	0.01
40.56	13.54	424	0.02
40.57	13.54	426	0.01
40.57	13.54	428	0.01
40.57	13.54	430	0.01
40.57	13.54	432	0.01
40.57	13.54	434	0.01
40.57	13.54	436	0.01
40.57	13.54	438	0.01
40.57	13.54	440	0.01
40.57	13.54	442	0.01
40.57	13.54	444	0.01
40.57	13.54	446	0.01
40.57	13.54	448	0.01
40.57	13.54	450	0.01
40.57	13.54	452	0.01
40.57	13.54	454	0.01
40.57	13.54	456	0.01
40.57	13.54	458	0.01
40.57	13.54	460	0.01
40.57	13.54	462	0.01
40.57	13.54	464	0.01
40.57	13.54	466	0.01
40.57	13.54	468	0.01
40.56	13.54	470	0.02
40.57	13.54	472	0.01
40.57	13.54	474	0.01
40.57	13.54	476	0.01

Dave's Gas Station (Former)
MW-2 (Slug Out)

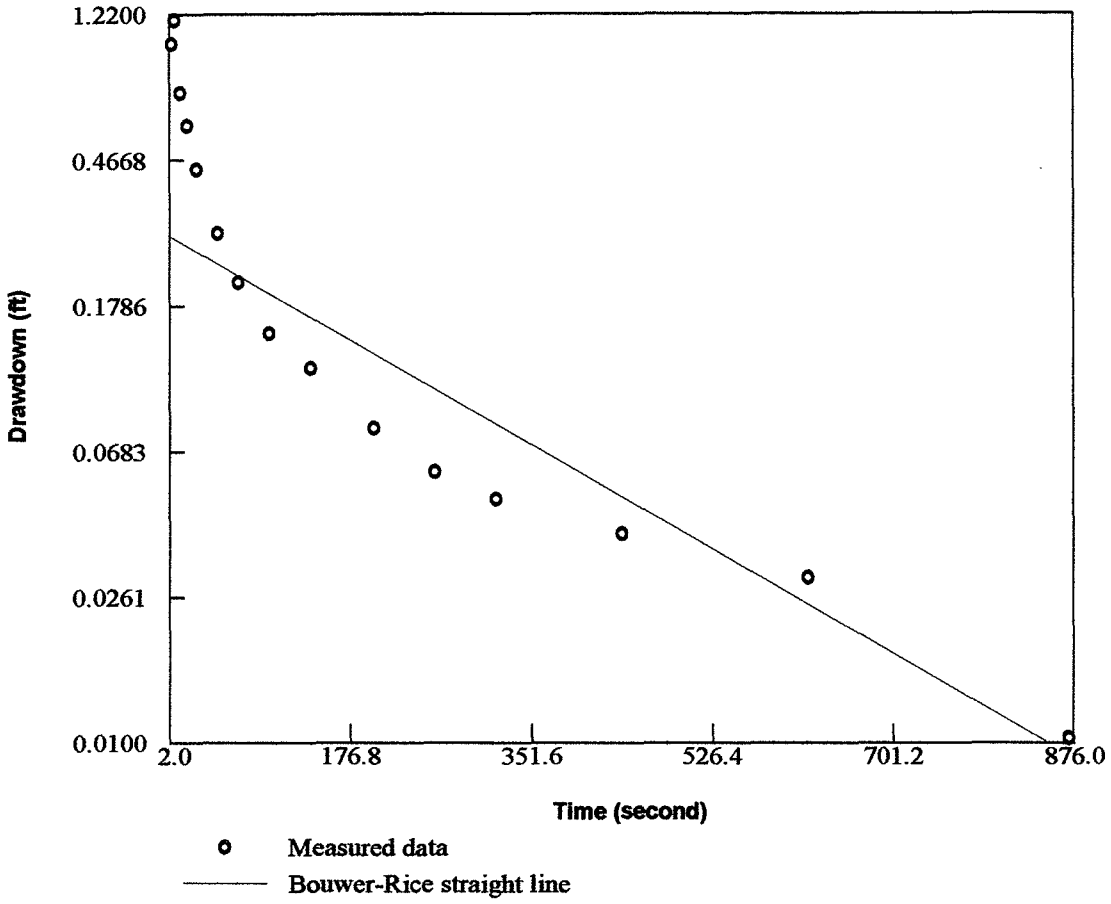
40.57	13.54	478	0.01
40.57	13.54	480	0.01
40.57	13.54	482	0.01
40.57	13.54	484	0.01
40.57	13.54	486	0.01
40.56	13.54	488	0.02
40.56	13.54	490	0.02
40.56	13.54	492	0.02
40.57	13.54	494	0.01
40.56	13.54	496	0.02
40.56	13.54	498	0.02
40.56	13.54	500	0.02
40.56	13.54	502	0.02
40.56	13.54	504	0.02
40.56	13.54	506	0.02
40.56	13.55	508	0.02
40.56	13.54	510	0.02
40.56	13.55	512	0.02
40.56	13.54	514	0.02
40.57	13.54	516	0.01
40.57	13.54	518	0.01
40.57	13.55	520	0.01
40.57	13.55	522	0.01
40.57	13.55	524	0.01
40.57	13.54	526	0.01
40.57	13.55	528	0.01
40.57	13.55	530	0.01
40.57	13.55	532	0.01
40.57	13.55	534	0.01
40.57	13.55	536	0.01
40.57	13.55	538	0.01
40.57	13.55	540	0.01
40.57	13.55	542	0.01
40.57	13.55	544	0.01
40.57	13.55	546	0.01
40.57	13.55	548	0.01
40.57	13.55	550	0.01
40.57	13.54	552	0.01
40.57	13.55	554	0.01
40.57	13.55	556	0.01
40.57	13.55	558	0.01
40.57	13.55	560	0.01
40.57	13.55	562	0.01
40.57	13.54	564	0.01
40.57	13.55	566	0.01
40.57	13.54	568	0.01
40.57	13.55	570	0.01
40.57	13.54	572	0.01

Dave's Gas Station (Former)
MW-2 (Slug Out)

40.57	13.54	574	0.01
40.57	13.55	576	0.01
40.57	13.55	578	0.01
40.57	13.54	580	0.01
40.57	13.54	582	0.01
40.57	13.54	584	0.01
40.57	13.54	586	0.01
40.57	13.54	588	0.01
40.57	13.55	590	0.01
40.57	13.54	592	0.01
40.57	13.54	594	0.01
40.57	13.54	596	0.01
40.57	13.54	598	0.01
40.57	13.54	600	0.01
40.57	13.54	602	0.01
40.57	13.54	604	0.01
40.57	13.54	606	0.01
40.57	13.55	608	0.01
40.57	13.54	610	0.01
40.57	13.54	612	0.01
40.57	13.54	614	0.01
40.57	13.54	616	0.01
40.57	13.54	618	0.01
40.57	13.54	620	0.01
40.57	13.54	622	0.01
40.57	13.54	624	0.01
40.57	13.54	626	0.01
40.57	13.54	628	0.01
40.57	13.55	630	0.01
40.57	13.54	632	0.01
40.57	13.54	634	0.01
40.57	13.54	636	0.01
40.57	13.54	638	0.01
40.57	13.54	640	0.01
40.57	13.54	642	0.01
40.57	13.54	644	0.01
40.57	13.54	646	0.01
40.57	13.54	648	0.01
40.57	13.54	650	0.01
40.57	13.54	652	0.01
40.57	13.54	654	0.01
40.57	13.54	656	0.01
40.57	13.54	658	0.01
40.57	13.54	660	0.01
40.57	13.54	662	0.01
40.57	13.54	664	0.01
40.57	13.54	666	0.01
40.57	13.54	668	0.01

Dave's Gas Station (Former)
MW-2 (Slug Out)

40.57	13.54	670	0.01
40.57	13.54	672	0.01
40.57	13.54	674	0.01
40.57	13.54	676	0.01
40.57	13.54	678	0.01
40.57	13.54	680	0.01
40.57	13.54	682	0.01
40.57	13.54	684	0.01
40.57	13.54	686	0.01
40.57	13.54	688	0.01
40.57	13.54	690	0.01
40.57	13.54	692	0.01
40.58	13.54	694	0



Aquifer Parameters by the Bouwer and Rice Slug Test	
Hydraulic Conductivity (ft/s):	4.00e-006
Transmissivity (sq ft/s):	3.71e-005

Dave's Gas Station (Former) MW-4 Slug Out

Dave's Gas Station (Former)
MW-4 (Slug Out)

Pressure[ft]	Temperature[°C]	Time (Seconds)	Drawdown
40.48	13.15	0	0.73
39.99	13.15	2	1.22
40.1	13.15	4	1.11
40.2	13.16	6	1.01
40.29	13.15	8	0.92
40.37	13.15	10	0.84
40.42	13.16	12	0.79
40.48	13.15	14	0.73
40.54	13.15	16	0.68
40.58	13.15	18	0.63
40.62	13.15	20	0.59
40.66	13.15	22	0.55
40.69	13.15	24	0.52
40.72	13.15	26	0.49
40.74	13.15	28	0.47
40.77	13.15	30	0.44
40.78	13.15	32	0.43
40.81	13.15	34	0.4
40.83	13.15	36	0.38
40.85	13.15	38	0.36
40.86	13.15	40	0.35
40.88	13.15	42	0.33
40.88	13.15	44	0.33
40.9	13.15	46	0.31
40.91	13.15	48	0.3
40.92	13.15	50	0.29
40.94	13.15	52	0.27
40.95	13.15	54	0.26
40.95	13.15	56	0.26
40.96	13.15	58	0.25
40.97	13.15	60	0.24
40.98	13.15	62	0.24
40.98	13.15	64	0.23
40.99	13.15	66	0.22
40.99	13.15	68	0.22
41	13.15	70	0.21
41.01	13.15	72	0.2
41.01	13.15	74	0.2
41.02	13.15	76	0.19
41.02	13.15	78	0.19
41.02	13.15	80	0.19
41.04	13.15	82	0.18
41.04	13.15	84	0.18
41.04	13.15	86	0.18
41.04	13.15	88	0.18
41.04	13.15	90	0.17
41.05	13.15	92	0.16

Dave's Gas Station (Former)
MW-4 (Slug Out)

41.05	13.15	94	0.16
41.06	13.15	96	0.15
41.06	13.15	98	0.15
41.06	13.15	100	0.15
41.06	13.15	102	0.15
41.07	13.15	104	0.15
41.07	13.15	106	0.15
41.07	13.15	108	0.14
41.08	13.15	110	0.13
41.07	13.15	112	0.14
41.08	13.15	114	0.13
41.09	13.15	116	0.12
41.09	13.15	118	0.12
41.08	13.15	120	0.13
41.09	13.15	122	0.12
41.09	13.15	124	0.12
41.09	13.15	126	0.12
41.09	13.15	128	0.12
41.09	13.15	130	0.12
41.09	13.15	132	0.12
41.09	13.15	134	0.12
41.09	13.15	136	0.12
41.1	13.15	138	0.11
41.09	13.15	140	0.12
41.1	13.15	142	0.11
41.1	13.15	144	0.11
41.1	13.15	146	0.11
41.1	13.15	148	0.11
41.11	13.15	150	0.1
41.11	13.15	152	0.1
41.11	13.15	154	0.1
41.11	13.15	156	0.1
41.11	13.15	158	0.1
41.11	13.15	160	0.1
41.12	13.15	162	0.09
41.12	13.15	164	0.09
41.12	13.15	166	0.09
41.11	13.15	168	0.1
41.12	13.15	170	0.09
41.12	13.15	172	0.09
41.12	13.15	174	0.09
41.12	13.15	176	0.09
41.12	13.15	178	0.09
41.12	13.15	180	0.09
41.12	13.15	182	0.09
41.12	13.15	184	0.09
41.12	13.14	186	0.09
41.12	13.15	188	0.09

Dave's Gas Station (Former)
MW-4 (Slug Out)

41.13	13.14	190	0.08
41.13	13.14	192	0.08
41.13	13.14	194	0.08
41.13	13.14	196	0.08
41.13	13.14	198	0.08
41.13	13.14	200	0.08
41.13	13.14	202	0.08
41.13	13.14	204	0.08
41.12	13.14	206	0.09
41.12	13.14	208	0.09
41.13	13.14	210	0.08
41.12	13.14	212	0.09
41.13	13.14	214	0.08
41.12	13.14	216	0.09
41.13	13.14	218	0.08
41.13	13.14	220	0.08
41.13	13.13	222	0.08
41.13	13.13	224	0.08
41.13	13.13	226	0.08
41.14	13.13	228	0.07
41.14	13.13	230	0.07
41.14	13.13	232	0.07
41.14	13.13	234	0.07
41.14	13.13	236	0.07
41.14	13.13	238	0.07
41.14	13.13	240	0.07
41.14	13.13	242	0.07
41.14	13.12	244	0.07
41.15	13.12	246	0.06
41.15	13.12	248	0.06
41.14	13.12	250	0.07
41.14	13.12	252	0.07
41.15	13.12	254	0.06
41.15	13.12	256	0.06
41.15	13.12	258	0.06
41.15	13.12	260	0.06
41.15	13.12	262	0.06
41.15	13.12	264	0.06
41.15	13.12	266	0.06
41.15	13.12	268	0.06
41.15	13.12	270	0.06
41.15	13.12	272	0.06
41.15	13.12	274	0.06
41.15	13.12	276	0.06
41.15	13.12	278	0.06
41.15	13.12	280	0.06
41.15	13.12	282	0.06
41.15	13.12	284	0.06

Dave's Gas Station (Former)
MW-4 (Slug Out)

41.15	13.12	286	0.06
41.15	13.12	288	0.06
41.15	13.12	290	0.06
41.15	13.12	292	0.06
41.15	13.12	294	0.06
41.15	13.12	296	0.06
41.15	13.12	298	0.06
41.15	13.12	300	0.06
41.15	13.12	302	0.06
41.15	13.12	304	0.06
41.15	13.12	306	0.06
41.16	13.12	308	0.05
41.16	13.12	310	0.05
41.16	13.12	312	0.05
41.16	13.12	314	0.05
41.15	13.12	316	0.06
41.16	13.12	318	0.05
41.16	13.12	320	0.05
41.15	13.12	322	0.06
41.15	13.12	324	0.06
41.15	13.12	326	0.06
41.16	13.12	328	0.05
41.15	13.12	330	0.06
41.15	13.12	332	0.06
41.16	13.12	334	0.05
41.16	13.12	336	0.05
41.16	13.12	338	0.05
41.16	13.12	340	0.05
41.16	13.12	342	0.05
41.16	13.12	344	0.05
41.16	13.12	346	0.05
41.16	13.12	348	0.05
41.16	13.12	350	0.05
41.16	13.12	352	0.05
41.17	13.12	354	0.04
41.16	13.12	356	0.05
41.16	13.12	358	0.05
41.16	13.12	360	0.05
41.16	13.12	362	0.05
41.16	13.12	364	0.05
41.16	13.12	366	0.05
41.17	13.12	368	0.04
41.16	13.12	370	0.05
41.17	13.12	372	0.04
41.16	13.12	374	0.05
41.16	13.12	376	0.05
41.16	13.12	378	0.05
41.16	13.12	380	0.05

Dave's Gas Station (Former)
MW-4 (Slug Out)

41.16	13.12	382	0.05
41.17	13.12	384	0.04
41.16	13.12	386	0.05
41.16	13.12	388	0.05
41.16	13.12	390	0.05
41.17	13.12	392	0.04
41.16	13.12	394	0.05
41.16	13.12	396	0.05
41.16	13.12	398	0.05
41.17	13.13	400	0.04
41.16	13.12	402	0.05
41.16	13.12	404	0.05
41.16	13.13	406	0.05
41.17	13.12	408	0.04
41.17	13.12	410	0.04
41.16	13.13	412	0.05
41.17	13.13	414	0.04
41.17	13.13	416	0.04
41.17	13.13	418	0.04
41.16	13.13	420	0.05
41.16	13.13	422	0.05
41.17	13.13	424	0.04
41.17	13.13	426	0.04
41.17	13.13	428	0.04
41.17	13.12	430	0.04
41.17	13.13	432	0.04
41.17	13.12	434	0.04
41.17	13.13	436	0.04
41.17	13.13	438	0.04
41.17	13.13	440	0.04
41.17	13.13	442	0.04
41.17	13.13	444	0.04
41.17	13.13	446	0.04
41.17	13.13	448	0.04
41.17	13.13	450	0.04
41.17	13.13	452	0.04
41.17	13.13	454	0.04
41.17	13.13	456	0.04
41.17	13.13	458	0.04
41.17	13.13	460	0.04
41.17	13.13	462	0.04
41.17	13.13	464	0.04
41.17	13.13	466	0.04
41.17	13.13	468	0.04
41.17	13.13	470	0.04
41.17	13.13	472	0.04
41.17	13.13	474	0.04
41.17	13.13	476	0.04

Dave's Gas Station (Former)
MW-4 (Slug Out)

41.17	13.13	478	0.04
41.17	13.13	480	0.04
41.17	13.13	482	0.04
41.17	13.13	484	0.04
41.17	13.13	486	0.04
41.17	13.13	488	0.04
41.17	13.13	490	0.04
41.17	13.14	492	0.04
41.17	13.13	494	0.04
41.17	13.14	496	0.04
41.17	13.13	498	0.04
41.17	13.14	500	0.04
41.17	13.14	502	0.04
41.17	13.14	504	0.04
41.17	13.13	506	0.04
41.17	13.13	508	0.04
41.17	13.13	510	0.04
41.17	13.13	512	0.04
41.17	13.13	514	0.04
41.17	13.13	516	0.04
41.17	13.13	518	0.04
41.17	13.13	520	0.04
41.17	13.13	522	0.04
41.17	13.13	524	0.04
41.17	13.13	526	0.04
41.17	13.13	528	0.04
41.17	13.13	530	0.04
41.17	13.13	532	0.04
41.17	13.13	534	0.04
41.17	13.13	536	0.04
41.17	13.13	538	0.04
41.17	13.13	540	0.04
41.17	13.13	542	0.04
41.17	13.13	544	0.04
41.17	13.13	546	0.04
41.18	13.13	548	0.03
41.17	13.13	550	0.04
41.17	13.13	552	0.04
41.17	13.13	554	0.04
41.17	13.13	556	0.04
41.17	13.13	558	0.04
41.18	13.13	560	0.03
41.17	13.13	562	0.04
41.17	13.13	564	0.04
41.18	13.13	566	0.03
41.18	13.13	568	0.03
41.18	13.13	570	0.03
41.18	13.13	572	0.03

Dave's Gas Station (Former)
MW-4 (Slug Out)

41.18	13.13	574	0.03
41.17	13.13	576	0.04
41.18	13.13	578	0.03
41.18	13.13	580	0.03
41.18	13.13	582	0.03
41.18	13.13	584	0.03
41.18	13.13	586	0.03
41.18	13.13	588	0.03
41.18	13.13	590	0.03
41.18	13.13	592	0.03
41.18	13.13	594	0.03
41.18	13.13	596	0.03
41.18	13.13	598	0.03
41.18	13.13	600	0.03
41.18	13.13	602	0.03
41.18	13.13	604	0.03
41.18	13.13	606	0.03
41.18	13.13	608	0.03
41.18	13.13	610	0.03
41.18	13.13	612	0.03
41.18	13.13	614	0.03
41.18	13.13	616	0.03
41.18	13.13	618	0.03
41.18	13.13	620	0.03
41.18	13.13	622	0.03
41.18	13.13	624	0.03
41.18	13.13	626	0.03
41.18	13.13	628	0.03
41.18	13.13	630	0.03
41.18	13.13	632	0.03
41.18	13.13	634	0.03
41.18	13.13	636	0.03
41.18	13.13	638	0.03
41.18	13.13	640	0.03
41.18	13.13	642	0.03
41.18	13.12	644	0.03
41.18	13.13	646	0.03
41.19	13.12	648	0.02
41.19	13.13	650	0.02
41.18	13.13	652	0.03
41.18	13.13	654	0.03
41.18	13.13	656	0.03
41.18	13.13	658	0.03
41.18	13.13	660	0.03
41.19	13.13	662	0.02
41.18	13.13	664	0.03
41.19	13.13	666	0.02
41.18	13.13	668	0.03

Dave's Gas Station (Former)
MW-4 (Slug Out)

41.18	13.13	670	0.03
41.18	13.13	672	0.03
41.19	13.13	674	0.02
41.19	13.13	676	0.02
41.19	13.13	678	0.02
41.18	13.13	680	0.03
41.18	13.13	682	0.03
41.18	13.13	684	0.03
41.19	13.13	686	0.02
41.18	13.13	688	0.03
41.19	13.13	690	0.02
41.18	13.13	692	0.03
41.19	13.13	694	0.02
41.19	13.13	696	0.02
41.19	13.13	698	0.02
41.18	13.13	700	0.03
41.18	13.13	702	0.03
41.18	13.13	704	0.03
41.19	13.13	706	0.02
41.18	13.13	708	0.03
41.18	13.13	710	0.03
41.18	13.13	712	0.03
41.19	13.13	714	0.02
41.18	13.13	716	0.03
41.18	13.13	718	0.03
41.18	13.13	720	0.03
41.19	13.13	722	0.02
41.18	13.13	724	0.03
41.18	13.13	726	0.03
41.19	13.13	728	0.02
41.19	13.13	730	0.02
41.19	13.13	732	0.02
41.19	13.13	734	0.02
41.19	13.13	736	0.02
41.19	13.13	738	0.02
41.19	13.13	740	0.02
41.19	13.13	742	0.02
41.19	13.13	744	0.02
41.19	13.13	746	0.02
41.19	13.13	748	0.02
41.19	13.13	750	0.02
41.18	13.13	752	0.03
41.18	13.13	754	0.03
41.18	13.13	756	0.03
41.19	13.12	758	0.02
41.19	13.13	760	0.02
41.18	13.13	762	0.03
41.19	13.13	764	0.02

Dave's Gas Station (Former)
MW-4 (Slug Out)

41.18	13.13	766	0.03
41.19	13.12	768	0.02
41.18	13.13	770	0.03
41.18	13.13	772	0.03
41.19	13.13	774	0.02
41.18	13.13	776	0.03
41.18	13.13	778	0.03
41.18	13.12	780	0.03
41.19	13.13	782	0.02
41.19	13.13	784	0.02
41.19	13.13	786	0.02
41.19	13.13	788	0.02
41.18	13.13	790	0.03
41.19	13.12	792	0.02
41.19	13.13	794	0.02
41.19	13.13	796	0.02
41.19	13.13	798	0.02
41.2	13.13	800	0.02
41.19	13.13	802	0.02
41.2	13.13	804	0.02
41.19	13.13	806	0.02
41.19	13.13	808	0.02
41.19	13.13	810	0.02
41.19	13.13	812	0.02
41.19	13.13	814	0.02
41.19	13.13	816	0.02
41.2	13.13	818	0.02
41.19	13.13	820	0.02
41.19	13.13	822	0.02
41.19	13.13	824	0.02
41.19	13.13	826	0.02
41.19	13.13	828	0.02
41.19	13.13	830	0.02
41.19	13.13	832	0.02
41.19	13.13	834	0.02
41.19	13.13	836	0.02
41.19	13.13	838	0.02
41.19	13.13	840	0.02
41.19	13.13	842	0.02
41.19	13.13	844	0.02
41.2	13.13	846	0.02
41.19	13.13	848	0.02
41.19	13.13	850	0.02
41.2	13.13	852	0.02
41.2	13.13	854	0.02
41.19	13.13	856	0.02
41.2	13.13	858	0.02
41.19	13.13	860	0.02

Dave's Gas Station (Former)
MW-4 (Slug Out)

41.2	13.13	862	0.02
41.2	13.13	864	0.02
41.19	13.13	866	0.02
41.19	13.13	868	0.02
41.2	13.13	870	0.02
41.2	13.13	872	0.02
41.19	13.13	874	0.02
41.2	13.12	876	0.01
41.2	13.13	878	0.02
41.2	13.13	880	0.02
41.19	13.12	882	0.02
41.19	13.12	884	0.02
41.19	13.13	886	0.02
41.19	13.13	888	0.02
41.19	13.13	890	0.02
41.19	13.13	892	0.02
41.19	13.13	894	0.02
41.2	13.13	896	0.02
41.2	13.13	898	0.02
41.2	13.12	900	0.01
41.2	13.12	902	0.01
41.2	13.13	904	0.02
41.2	13.13	906	0.02
41.2	13.12	908	0.01
41.2	13.13	910	0.02
41.2	13.13	912	0.02
41.21	13.12	914	0.01
41.2	13.13	916	0.02
41.2	13.13	918	0.02
41.2	13.13	920	0.02
41.2	13.12	922	0.01
41.19	13.13	924	0.02
41.2	13.13	926	0.02
41.2	13.12	928	0.01
41.2	13.13	930	0.02
41.2	13.13	932	0.02
41.2	13.12	934	0.01
41.19	13.12	936	0.02
41.2	13.13	938	0.02
41.2	13.13	940	0.02
41.19	13.13	942	0.02
41.19	13.13	944	0.02
41.2	13.12	946	0.01
41.2	13.12	948	0.01
41.2	13.12	950	0.01
41.2	13.13	952	0.02
41.19	13.12	954	0.02
41.19	13.12	956	0.02

Dave's Gas Station (Former)
MW-4 (Slug Out)

41.19	13.13	958	0.02
41.2	13.12	960	0.01
41.19	13.12	962	0.02
41.19	13.12	964	0.02
41.19	13.12	966	0.02
41.19	13.12	968	0.02
41.2	13.12	970	0.01
41.2	13.12	972	0.01
41.2	13.12	974	0.01
41.2	13.12	976	0.01
41.19	13.12	978	0.02
41.2	13.13	980	0.02
41.2	13.12	982	0.01
41.2	13.12	984	0.01
41.2	13.12	986	0.01
41.19	13.12	988	0.02
41.19	13.12	990	0.02
41.2	13.12	992	0.01
41.2	13.12	994	0.01
41.2	13.12	996	0.01
41.2	13.12	998	0.01
41.2	13.12	1000	0.01
41.2	13.12	1002	0.01
41.2	13.12	1004	0.01
41.2	13.12	1006	0.01
41.2	13.12	1008	0.01
41.2	13.12	1010	0.01
41.2	13.12	1012	0.01
41.2	13.12	1014	0.01
41.2	13.12	1016	0.01
41.2	13.12	1018	0.01
41.2	13.12	1020	0.01
41.2	13.12	1022	0.01
41.2	13.12	1024	0.01
41.2	13.12	1026	0.01
41.2	13.12	1028	0.01
41.2	13.12	1030	0.01
41.2	13.12	1032	0.01
41.2	13.12	1034	0.01
41.2	13.12	1036	0.01
41.2	13.12	1038	0.01
41.21	13.12	1040	0.01

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

7/6/16
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

7/6/16
Date