Site Investigation Report

Smith's Union 76 Station
11427 S Business Highway 53
Solon Springs, Wisconsin

September 15, 2014
by METCO
WDNR File Reference #: 03-16-000069
PECFA Claim #: 54873-0057-11

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This document was prepared by:

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September 15, 2014

WDNR BRRTS#: 03-16-000069
PECFA Claim #: 54873-0057-11

Adam Bachand
1406 Belknap St.
Superior, WI 54880

Dear Mr. Bachand,

Enclosed is our "Site Investigation Report" concerning the Smith's Union 76 Station site in Solon Springs, 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 presence of NR140 ES exceedances in three of the wells (MW-1, -2, and -6), NR140 PAL exceedances in down/side-gradient monitoring wells MW-5 and MW-7, the recent free product encountered in MW-6, nearby private potable wells, and close proximity of Park Creek, additional groundwater monitoring/free product abatement will likely be required by the state to move this site toward closure. If the state concurs, please contact METCO to discuss workscope.

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,

J. T. Powell

Jason T. Powell
Staff Scientist

C: Jamie Dunn – WDNR

EXECUTIVE SUMMARY

The subject property is currently used as a real estate office. A gas station operated on the property from the 1950's (est.) until 1989. Former UST systems consisted of a 3,000-gallon unleaded gasoline, a 4,000-gallon leaded gasoline, and a 1,000-gallon fuel oil. The age of these UST's is not known.

On June 21, 1989, Twin City Testing Corporation (TCT) of Duluth, Minnesota oversaw the removal of the three UST's from the subject property. The UST's had already been removed by the time TCT arrived. TCT personnel collected three soil samples from the bottom of the gasoline UST excavation to be analyzed with an HNU photo-ionization detector (PID). The PID results showed levels ranging from 130 to 150 ppm. The edges were then tested and it was found that the west end was contaminated only in the bottom center. One to two feet of material was removed and the area retested. The samples were then found to show no PID detects. The focus of the excavation was then given to cleaning up the east end of the excavation. PID readings ranging from 50 to 150 ppm were obtained from the sides of the pit and approximately 130 ppm from the bottom of the excavation. Approximately 2 feet of the bottom material was then excavated and the area was retested and found to be 20 ppm. Another 3 feet was then removed and retesting gave PID readings of 500 ppm. At that point work was stopped until decisions could be made regarding what course of action should be taken to clean up the site. The petroleum contamination was reported to the WDNR, who then required that a LUST investigation be conducted.

Four soil samples were also collected from the heating oil UST excavation for PID analysis. The PID analysis showed that no contaminants were present in the area of the removed heating oil UST.

On October 22, 1990, TCT conducted four soil borings (SB-1 thru SB-4) ranging from 14 to 19 feet below ground surface (bgs).

In 2012, METCO was hired to resume the investigation, which included the completion of ten soil borings, installation of eight monitoring wells, and four rounds of groundwater monitoring.

The Tank Closure Site Assessment, Geoprobe/Drilling Projects, and four rounds of groundwater monitoring clearly shows that released petroleum products have impacted the local soil and groundwater. Results of the investigation are as follows:

- Geologic material in the area of investigation generally consists of very fine to coarse grained sand with gravel, and some cobbles noted, to at least 20 feet bgs.
- Bedrock was not encountered during the site investigation, but Pre-Cambrian basalt is estimated to exist at approximately 100-200 feet bgs.

- According to data collected from the monitoring wells, the depth to groundwater ranges from 4.67 to 16.14 feet bgs depending on well location and time of year. The local horizontal groundwater flow in the immediate area of the subject property is to the east.

- An area of unsaturated soil contamination, which exceeds the NR720 Groundwater RCL values, exists in the area of the former UST's and dispenser island. This area appears to measure an irregular shaped area up to 95 feet long, up to 38 feet wide, and up to 10 feet thick.

- A dissolved phase contaminant plume exceeding the NR140 Enforcement Standards (ES) and Preventive Action Limits (PAL) has formed at the watertable and has migrated toward the east. This plume is at least 278 feet long and 105 feet wide.

- Based on the most recent groundwater analytical results, three of the monitoring wells (MW-1, -2, and -6) show NR140 ES exceedances. Two monitoring wells (MW-5, and -7) currently show only NR140 PAL exceedances, and the other three monitoring wells (MW-3, -4, and -8) currently show no detects/exceedances for any contaminants of concern.

- Based on the receptor survey, there does not appear to be any risk of contaminant migration along utility corridors or vapor intrusion to nearby buildings. However, it should be noted that the subject property and other nearby properties are served by private potable wells. These potable wells were sampled and showed no laboratory detects for VOC's (Method 524.2). The private well at 9182 E. Hughes Avenue did show an NR140 PAL exceedance (3.2 ppb) for Lead during the November 2013 sampling event, however a confirmation sample collected during the February 2014 sampling event showed no detects for Lead. Also, the contaminant plume is in close proximity to Park Creek.

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 presence of NR140 ES exceedances in three of the wells (MW-1, -2, and -6), NR140 PAL exceedances in down/side-gradient monitoring wells MW-5 and MW-7, the recent free product encountered in MW-6, nearby private potable wells, and close proximity of Park Creek, additional groundwater monitoring/free product abatement will likely be required by the state to move this site toward closure. If the state concurs, please contact METCO to discuss workscope.

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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

Adam Bachand
1406 Belknap Street
Superior, WI 54880
(715) 394-6637

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

Soil Essentials
P.O. Box 959
New Glarus, WI 53574
(608) 527-2355

Range Environmental Drilling
2114 2nd Avenue East
Hibbing, MN 55746
(218) 966-6054

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

1.3 Site Location

Site address:
11427 S Business Highway 53
Solon Springs, WI 54873

Latitude and Longitude:
46° 21' 6" N and 91° 19' 14" W

WTM Coordinates:
379923, 654730

Township/Range:
NE ¼, SE ¼, Section 26, Township 45 North, Range 12 West, Douglas County

1.4 Site History

The subject property is currently used as a real estate office. A gas station operated on the property from the 1950's (est.) until 1989. Former UST systems consisted of a 3,000-gallon unleaded gasoline, a 4,000-gallon leaded gasoline, and a 1,000-gallon fuel oil. The age of these UST's is not known.

On June 21, 1989, Twin City Testing Corporation (TCT) of Duluth, Minnesota oversaw the removal of the three UST's from the subject property. The UST's had already been removed by the time TCT arrived. TCT personnel collected three soil samples from the bottom of the gasoline UST excavation to be analyzed with an HNU photo-ionization detector (PID). The PID results showed levels ranging from 130 to 150 ppm. The edges were then tested and it was found that the west end was contaminated only in the bottom center. One to two feet of material was removed and the area retested. The samples were then found to show no PID detects. The focus of the excavation was then given to cleaning up the east end of the excavation. PID readings ranging from 50 to 150 ppm were obtained from the sides of the pit and approximately 130 ppm from the bottom of the excavation. Approximately 2 feet of the bottom material was then excavated and the area was retested and found to be 20 ppm. Another 3 feet was then removed and retesting gave PID readings of 500 ppm.

At that point work was stopped until decisions could be made regarding what course of action should be taken to clean up the site. The petroleum contamination was reported to the WDNR, who then required that a LUST investigation be conducted.

Four soil samples were also collected from the heating oil UST excavation for PID analysis. The PID analysis showed that no contaminants were present in the area of the removed heating oil UST.

On October 22, 1990, TCT conducted four soil borings (SB-1 thru SB-4) ranging from 14 to 19 feet below ground surface (bgs). Continuous soil sampling was conducted for HNU screening and one soil sample per boring was submitted for total hydrocarbons as gasoline, BTEX, and Lead analysis. Soil borings SB-2 and SB-3 did show exceedances for total hydrocarbons as gasoline and BTEX.

The nearest known LUST site is the Bednar Oil site (BRRTS # 03-16-000195), which is located approximately 50 feet to the north of the subject property. The Bednar Oil LUST site was closed by the WDNR in 2008. Based on the groundwater flow direction and the results from monitoring well MW-7 from the Bednar Oil site and Geoprobe boring G-1 from Smith's Union 76 Station, it does not appear that this site is impacting or being impacted by the subject property.

2.0 GEOLOGY AND RECEPTORS

2.1 Regional and Local Geology and Hydrogeology

Topography and Regional Setting

According to the USGS Hydrologic Atlas, Solon Springs is located in the northern portion of the St. Croix River Basin. This area is characterized by a relatively flat glacial outwash plain and numerous kettle lakes.

The elevation of the site is approximately 1075 feet above Mean Sea Level (MSL). See Section 6.0 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.

Geologic material in the area of investigation generally consists of tan to brown to gray to orange to red, very fine to coarse grained sand with gravel, and some cobbles noted, to at least 20 feet bgs.

Bedrock was not encountered during the site investigation, but Pre-Cambrian basalt is estimated to exist at approximately 100-200 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 4.67 to 16.14 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 to the east. 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 area of soil contamination appears to intersect a sanitary sewer service line and a telephone line. According to the Village of Solon Springs, the sanitary sewer lines exists at approximately 6 feet bgs. These lines were installed in 1978 and were backfilled with sand. The sanitary sewer line exists approximately 6.5-8 feet above the watertable. The depth at which the telephone line exists is unknown at this time, but is likely less than 3 feet bgs. The telephone line exists approximately 10 feet above the watertable. Based on field and laboratory analysis of soil samples collected near the utility corridors, and that these lines exist at least 6.5-10 feet above the watertable, it does not appear that these are acting as preferential migration pathways for contamination.

The NR140 ES contaminant plume also appears to intersect the same sanitary sewer and telephone lines. Based on field and laboratory analysis of soil samples collected near the utility corridors, and that these lines exist at least 6.5-10 feet above the watertable, it does not appear that these are acting as preferential migration pathways for contamination.

The extent of the soil contamination appears to extend up to and underneath the on-site building (slab-on grade) at depths ranging from 8-14 feet bgs, with levels exceeding the NR720 Groundwater RCL's. The groundwater

contamination also appears to extend up to and underneath the on-site building, however levels appear to be relatively low, based on the groundwater results from geoprobe G-8 (34 ppb Benzene). Soil and groundwater results collected near the on-site building show relatively low contaminant levels, therefore, vapor intrusion does not appear to be a risk at this time.

Municipal and Private Water Supply Wells

Sand point private wells supply the subject property and surrounding properties with potable water. The private well for the subject property is located inside the on-site building, near the southeast corner. This well exists approximately 12 feet to the north of the former UST systems (side-gradient).

Analytical results from the on-site potable well and adjacent properties to the north and south (11423 S Business Hwy 53 and 9182 E. Hughes Ave, respectively), showed no laboratory detects for VOC's (Method 524.2). The private well at 9182 E. Hughes Ave. did show show an NR140 PAL exceedance (3.2 ppb) for Lead during November 2013 sampling event, however a confirmation sample collected during the February 2014 sampling event showed no detects for Lead.

The on-site potable well locations are shown on the Site Layout Map presented in Section 6.0.

Surface Waters

The nearest surface water is Park Creek, which exists approximately 100 feet to the southeast of the subject property. Park Creek Pond exists approximately 175 feet to the south of the subject property.

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 July 2, 2012, METCO prepared a LUST Investigation Field Procedures Workplan.
3) On September 18-20, 2012, METCO completed ten soil borings and installed six monitoring wells (G-1 thru G-10 and MW-1 thru MW-6) (Drilling Project #1). Sixty-four soil samples were collected for field and/or laboratory analysis. Nine groundwater samples were collected from the borings, and a water sample was also collected from the on-site potable

well. Upon completion of the monitoring wells, the wells were properly developed.

4) On October 2, 2012, METCO surveyed and collected groundwater samples from the six monitoring wells for field and laboratory analysis (Round 1). METCO also conducted slug tests on monitoring wells MW-1, MW-3, and MW-5.
5) On September 25, 2013, METCO installed two additional monitoring wells (MW-7 and MW-8) (Drilling Project #2). Five soil samples were collected from the borings for field analysis. Upon completion of the monitoring wells, the wells were properly developed.
6) On October 22, 2013, DKS Transport Services, LLC picked up and properly disposed of 9 drums of investigative waste.
7) On November 7, 2013, METCO collected groundwater samples from three potable wells and the eight monitoring wells for field and laboratory analysis (Round 2).
8) On February 19, 2014, METCO collected a groundwater sample from one potable well and from five of the monitoring wells for field and laboratory analysis (Round 3). Monitoring wells MW-1, MW-4, and MW-8 could not be sampled as they could not be located (due to large snow piles) or could not be accessed (large amount of water over the well).
9) On May 21, 2014, METCO collected groundwater samples from the eight monitoring wells for field and laboratory analysis (Round 4).

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 October 22, 1990, TCT conducted four soil borings (SB-1 thru SB-4) ranging from 14 to 19 feet bgs. Continuous soil sampling was conducted for HNU screening and one soil sample per boring was submitted for total hydrocarbons as gasoline, BTEX, and Lead analysis.

On September 18-20, 2012, METCO completed ten soil borings and installed six monitoring wells (G-1 thru G-10 and MW-1 thru MW-6). Sixty-four soil samples were collected for field and/or laboratory analysis (PID, Lead, GRO, VOC, PVOC, and/or Naphthalene).

On September 25, 2013, METCO installed two additional monitoring wells (MW-7 and MW-8). Five soil samples were collected from the borings for field analysis (PID).

Soil analytical results are summarized in the Pre-remedial Soil Analytical Tables with exceedances of the NR720 Groundwater RCL's, Direct Contact RCL's and/or Soil Saturation Concentration (C-Sat) values noted.

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

Groundwater Sampling Data

On September 18-20, 2012, during the Geoprobe/Drilling Project, METCO collected one groundwater sample from nine of the ten borings for laboratory analysis (PVOC and Naphthalene). Six monitoring wells were also installed and subsequently developed (MW-1 thru MW-6).

On October 2, 2012, METCO collected groundwater samples from the six monitoring wells for field and laboratory analysis (VOC, Dissolved Lead, Dissolved Iron, Dissolved Manganese, Nitrate/Nitrite, and Sulfate).

On September 25, 2013, two additional monitoring wells were installed and subsequently developed (MW-7 and MW-8).

On November 7, 2013, METCO collected groundwater samples from the eight monitoring wells for field and laboratory analysis (VOC, PVOC, Dissolved Lead, Dissolved Iron, Dissolved Manganese, Nitrate/Nitrite, Sulfate, and/or Naphthalene).

On February 19, 2014, METCO collected groundwater samples from five of the monitoring wells for field and laboratory analysis (PVOC, Naphthalene, and Dissolved Lead). Monitoring wells MW-1, MW-4, and MW-8 could not be sampled as they could not be located (due to large snow piles) or could not be accessed (large amount of water over the well).

On May 21, 2014, METCO collected groundwater samples from the eight monitoring wells for field and laboratory analysis (PVOC, Naphthalene, and Dissolved Lead).

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.

Potable Well Sampling Data

On September 18, 2012, during the Drilling Project, METCO personnel collected one groundwater sample from the on-site potable well for laboratory analysis (VOC Method 524.2).

On November 7, 2012, during the groundwater sampling event, METCO personnel collected one groundwater sample from three potable wells for laboratory analysis (VOC Method 524.2 and Dissolved Lead).

On February 19, 2014, during the groundwater sampling event, METCO personnel collected a groundwater sample from one potable well for laboratory analysis (Dissolved Lead).

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

The potable 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 October 2, 2012, METCO conducted slug tests on monitoring wells MW-1, MW-3, and MW-5. 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) = 6.61E-03 cm/sec
Transmissivity = 1.28E+00 cm^2/sec
Flow Velocity (V=KI/n) = 97.63 m/yr

Monitoring Well MW-3
Hydraulic Conductivity (K) = 6.19E-04 cm/sec
Transmissivity = 1.38E-01 cm^2/sec
Flow Velocity (V=KI/n) = 9.13 m/yr

Monitoring Well MW-5
Hydraulic Conductivity (K) = 1.76E-04 cm/sec
Transmissivity = 3.70E-02 cm^2/sec
Flow Velocity (V=KI/n) = 2.60 m/yr

Since the thickness of the unconfined aquifer was unknown, the bottoms of monitoring wells MW-1, -3, and -5 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

The Tank Closure Site Assessment, Geoprobe/Drilling Projects, and four rounds of groundwater monitoring clearly shows that released petroleum products have impacted the local soil and groundwater.

Geologic material in the area of investigation generally consists of very fine to coarse grained sand with gravel, and some cobbles noted, to at least 20 feet bgs.

Bedrock was not encountered during the site investigation, but Pre-Cambrian basalt is estimated to exist at approximately 100-200 feet bgs.

According to data collected from the monitoring wells, the depth to groundwater ranges from 4.67 to 16.14 feet bgs depending on well location and time of year. The local horizontal groundwater flow in the immediate area of the subject property is to the east.

An area of unsaturated soil contamination, which exceeds the NR720 Groundwater RCL values, exists in the area of the former UST's and dispenser island. This area appears to measure an irregular shaped area up to 95 feet long, up to 38 feet wide, and up to 10 feet thick.

A dissolved phase contaminant plume exceeding the NR140 ES and PAL has formed at the watertable and has migrated toward the east. This plume is at least 278 feet long and 105 feet wide.

Based on the most recent groundwater analytical results, three of the monitoring wells (MW-1, -2, and -6) show NR140 ES exceedances. Two monitoring wells (MW-5 and -7) currently show only NR140 PAL exceedances, and the other three monitoring wells (MW-3, -4, and -8) currently show no detects/exceedances for any contaminants of concern.

Based on the receptor survey, there does not appear to be any risk of contaminant migration along utility corridors or vapor intrusion to nearby buildings. However, it should be noted that the subject property and other nearby properties are served by private potable wells. All potable well samples showed no laboratory detects for VOC's (Method 524.2). The private well at 9182 E. Hughes Avenue did show an NR140 PAL exceedance (3.2 ppb) for Lead during the November 2013 sampling event, however a confirmation sample collected during the February 2014 sampling event showed no detects for Lead.

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

The Detailed Site Map, Pre-remedial 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 Smith's Union 76 Station site is currently a "high risk" site, because there are NR140 Enforcement Standard exceedances within 100 feet of a potable well used to provide water for human consumption. It is also important to note that the potable well at 9182 E. Hughes Avenue did show an NR140 PAL exceedance for Lead during the November 2013 sampling event (however showed no detects for Lead during the February 2014 sampling event). Free product has been documented in MW-6, however it has not been verified by more than one sampling event.

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 (with the exception of NR140 Preventive Action Limit (PAL) Benzene in down-gradient monitoring well MW-7 and PAL level Trimethylbenzene in side gradient monitoring well MW-5) to warrant a completed investigation as defined by the WDNR guidelines and regulations.

4.2 Recommendations

Due to the presence of NR140 ES exceedances in three of the wells (MW-1, -2, and -6), NR140 PAL exceedances in down/side-gradient monitoring wells MW-5 and MW-7, the recent free product encountered in MW-6, nearby private potable wells, and close proximity of Park Creek, additional groundwater monitoring/free product abatement will likely be required by the state to move this site toward closure. If the state concurs, please contact METCO to discuss workscope.

5.0 REFERENCES

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

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

Geologic Logs and Well Constructor Reports, Wisconsin Geological and Natural History Survey, Madison, Wisconsin.

Matsch, C.L. and Ojakangas, R.W., 1982, Minnesota's Geology, Minneapolis, Minnesota.

Nielson, D.M., 1991, Practical Handbook of Groundwater Monitoring, Chelsea, Michigan.

Young, H.L. and Hindall, S.M., 1973, Water Resources of Wisconsin – St. Croix River Basin, Hydrologic Investigations, Atlas HA-451, U.S. Geological Survey, Washington D.C.

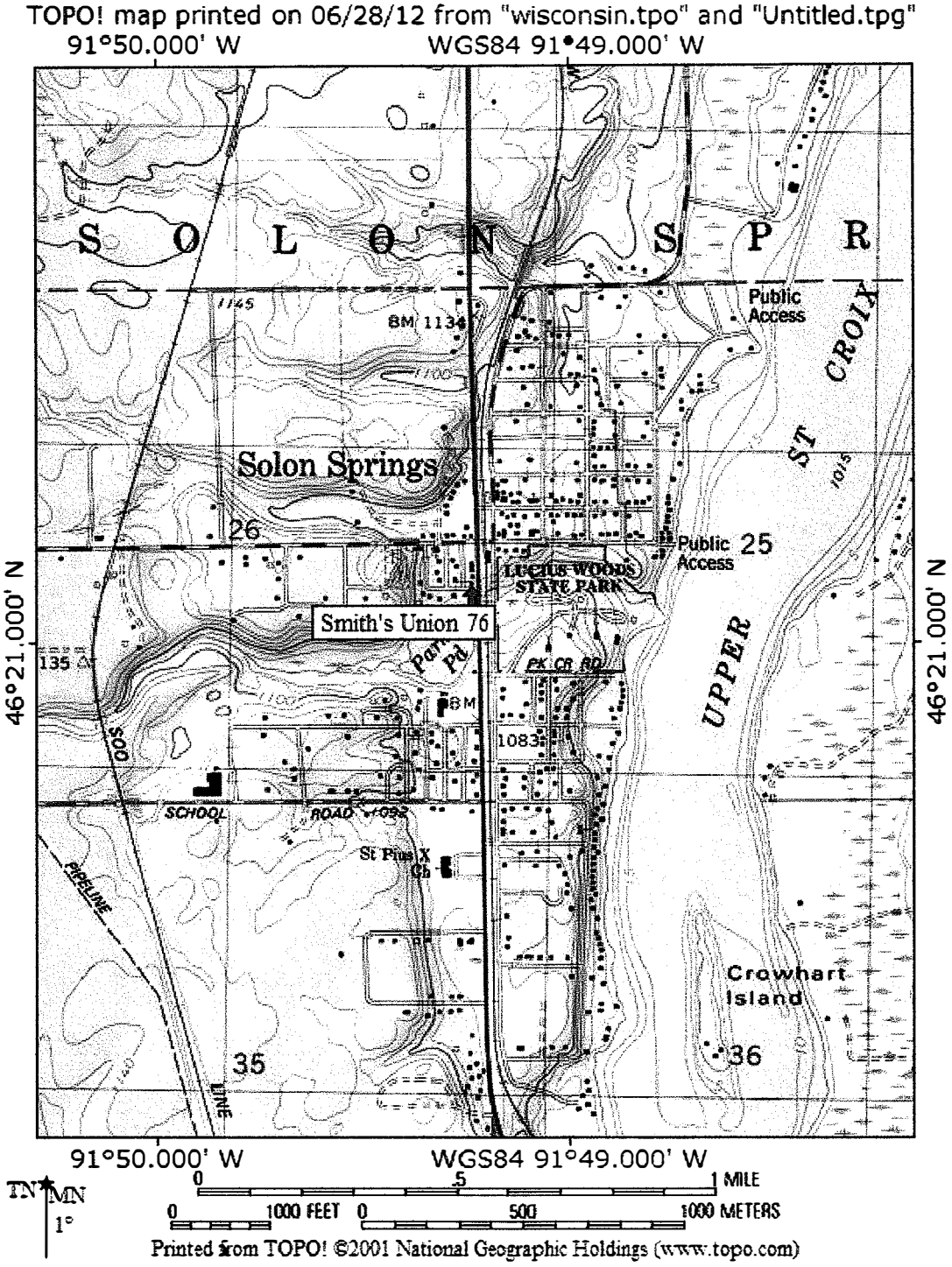
Seamless USGS Topographic Maps on CD-ROM, 2001, National Geographic Holdings, Inc., San Francisco, California.

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 Adam Bachand, Diggers Hotline, Soil Essentials, Range Environmental Drilling, Fauerbach Surveying & Engineering, Synergy Environmental Lab, Wisconsin Department of Natural Resources, and local people.

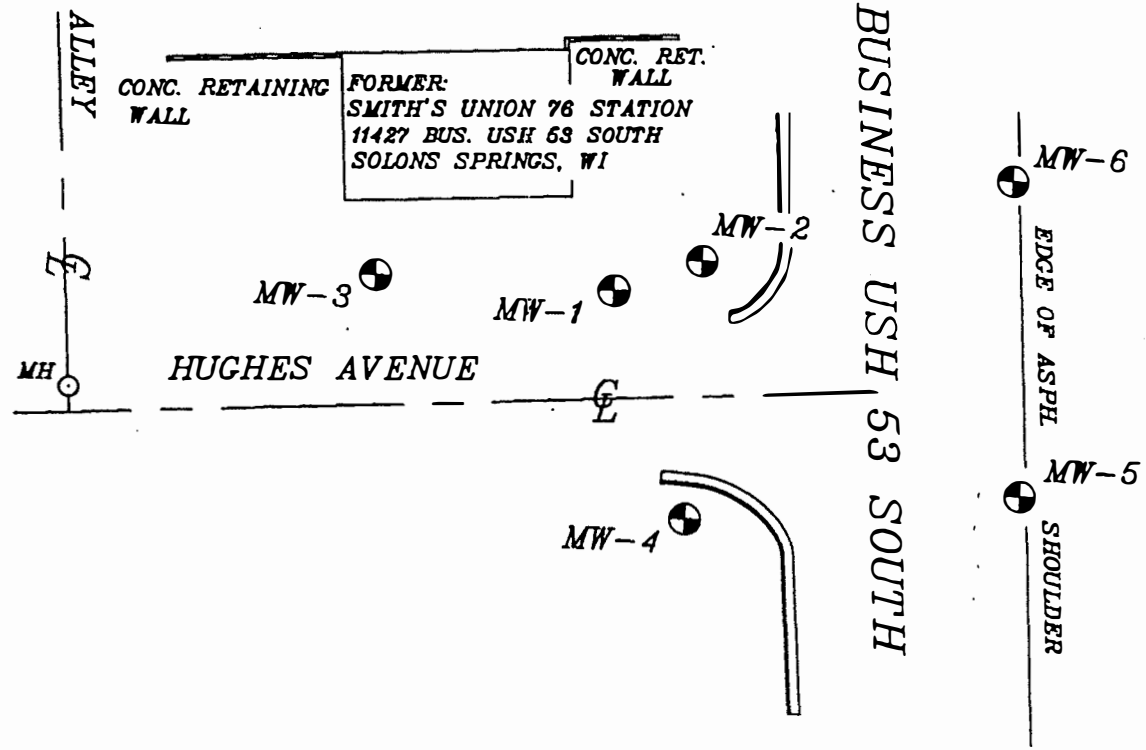
6.0 FIGURES



SITE LOCATION MAP – CONTOUR INTERVAL 10 FEET
SMITH'S UNION 76 – SOLON SPRINGS, WI
SEAMLESS USGS TOPOGRAPHIC MAPS ON CD-ROM

10-5-12

WISCONSIN
GREGORY A. FAUERBACH
S-2169
HILLSBORO, WI
LAND SURVEYOR



KEY

● FLUSH MONITORING WELL

N

SCALE 1" = 40'

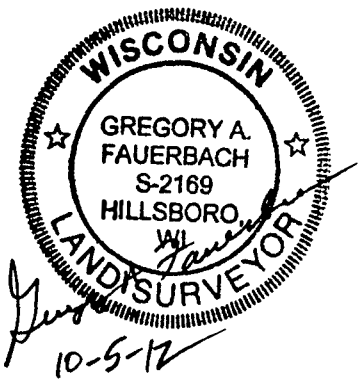
0' 40' 80'

MONITORING WELL TOP OF WELL & TOP OF CASING ELEVATIONS (NAVD88)

MW-1	TW	= 1076.54'
	TC	= 1076.09'
MW-2	TW	= 1076.64'
	TC	= 1076.01'
MW-3	TW	= 1076.87'
	TC	= 1076.55'
MW-4	TW	= 1075.52'
	TC	= 1075.13'
MW-5	TW	= 1074.94'
	TC	= 1074.47'
MW-6	TW	= 1077.21'
	TC	= 1076.78'

DRAWN BY: G.FAUERBACH DATE: 10-2-12 FIELD DWG. NO.: 54612	REVISIONS FAUERBACH SURVEYING & ENG. PO BOX 140, HILLSBORO, WI 54634 PH/FAX 608-489-3363	PROJECT: FORMER SMITH'S UNION 76 STATION 11427 BUS. USH 53 SOUTH SOLON SPRINGS, WI 54873	SHEET NAME LOCATION MAP	PAGE 1 OF 1

WELL	DOUGLAS CO. COORDINATES NORTH	EAST	TOP OF WELL COVER ELEVATION (NAVD88)	TOP OF PVC CASING ELEVATION
MW-1	170,791.52	218,245.69	1076.54'	1076.09'
MW-2	170,797.94	218,263.96	1076.64'	1076.01'
MW-3	170,794.82	218,195.68	1076.87'	1076.55'
MW-4	170,743.46	218,260.42	1075.52'	1075.13'
MW-5	170,748.79	218,330.24	1074.94	1074.47'
MW-6	170,814.48	218,328.59	1077.21'	1076.78'



DRAWN BY: C.FAUERBACH DATE: 10-2-12 FIELD DWG. NO.: 54612	REVISIONS	PROJECT: FORMER SMITH'S UNION 76 STATION 11427 BUS. USH 53 SOUTH SOLON SPRINGS, WI 54873	SHEET NAME DATA SHEET	PAGE 1 OF 1

A.2. Pre-Remedial Soil Analytical Table
Smith's Union 76 LUST Site BRRTS# 03-16-000069

Sample ID	Depth (feet)	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 (ppm)	PVOC Individual Exeedance Count	PVOC Hazard Index	PVOC Cumulative Cancer Risk
SB-1	unknown	10/22/90	unknown	<2.5	NS	NS	<0.001	<0.001	<0.001	NS	<0.001	NS	NS	<0.001	NS			
SB-2	unknown	10/22/90	unknown	<2.5	NS	NS	**0.014**	0.006	NS	NS	0.007	NS	NS	0.09	NS			
SB-3	unknown	10/22/90	unknown	<2.5	NS	NS	**20**	**16**	NS	NS	**27**	NS	NS	**90**	NS			
SB-4	unknown	10/22/90	unknown	<2.5	NS	NS	<0.001	<0.001	NS	NS	<0.001	NS	NS	0.011	NS			
G-1-1	3.5	09/18/12	0	6.63	NS	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0	1.66E-02	
G-1-2	8.0	09/18/12	0	NS	NS	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-1-3	12.0	09/18/12	0	NS	NS	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-1-4	16.0	09/18/12	0	NS	NS	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-1-5	18.0	09/18/12	0	NOT SAMPLED											NS			
G-2-1	3.5	09/18/12	0	**41.8**	NS	<10	**0.051**	0.0278	<0.025	0.057	0.218	0.172	0.100	0.425	NS	0	1.08E-01	4.9E-08
G-2-2	8.0	09/18/12	0	NS	NS	<10	<0.025	<0.025	<0.025	<0.025	0.064	0.046	0.029	0.115	NS			
G-2-3	12.0	09/18/12	20	NS	NS	<10	<0.025	<0.025	<0.025	0.065	<0.025	0.128	0.077	0.0304-0.0804	NS			
G-2-4	16.0	09/18/12	700	NS	NS	1420	**2.38**	**6.5**	<0.250	**15.6**	0.550	**113**	**53**	**49**	NS			
G-2-5	18.0	09/18/12	10	NOT SAMPLED											NS			
G-3-1	3.5	09/18/12	0	1.29	NS	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0	3.23E-03	
G-3-2	8.0	09/18/12	0	NS	NS	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-3-3	12.0	09/18/12	15	NS	NS	103	**0.092**	**3.9**	<0.025	**2.69**	0.390	**12.3**	**3.9**	**20.9**	NS			
G-3-4	16.0	09/18/12	300	1.58	NS	1730	<0.178	**29.1**	<0.240	**14.2**	**1.45**	**181**	**56**	**186**	NS			
G-3-5	18.0	09/18/12	180	NOT SAMPLED											NS			
G-4-1	3.5	09/18/12	0	24	NS	<10	**0.042**	0.050	<0.025	0.040	0.125	0.230	0.126	0.448	NS	0	6.39E-02	4.3E-08
G-4-2	8.0	09/18/12	0	NS	NS	<10	**0.0271**	<0.025	<0.025	0.0276	0.078	0.084	0.047	0.152	NS			
G-4-3	12.0	09/18/12	0	NS	NS	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-4-4	16.0	09/18/12	190	NS	NS	370	**0.550**	<0.250	<0.250	<0.250	<0.250	**2.36**	**2.54**	1.88	NS			
G-4-5	18.0	09/18/12	140	NOT SAMPLED											NS			
G-5-1	3.5	09/18/12	0	**60.2**	NS	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0	1.51E-01	
G-5-2	8.0	09/18/12	0	NS	NS	<10	<0.025	0.071	<0.025	<0.025	0.034	0.0284	0.033	0.216	NS			
G-5-3	12.0	09/18/12	0	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-5-4	16.0	09/18/12	0	NS	NS	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-5-5	18.0	09/18/12	0	NOT SAMPLED											NS			
G-6-1	3.5	09/18/12	0	**55**	NS	<10	**0.045**	0.041	<0.025	<0.025	0.095	0.068	0.048	0.283	NS	0	1.39E-01	3.6E-08
G-6-2	8.0	09/18/12	0	NS	NS	<10	<0.025	<0.025	<0.025	<0.025	0.056	0.058	0.037	0.156	NS			
G-6-3	12.0	09/18/12	0	NS	NS	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-6-4	16.0	09/18/12	0	NS	NS	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-6-5	NR	09/18/12		NO RECOVERY – PUSHED ROCK											NS			
G-7-1	3.5	09/18/12	0	1.08	NS	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0	2.70E-03	
G-7-2	8.0	09/18/12	0	NS	NS	<10	<0.025	<0.025	<0.025	<0.025	<0.025	0.034	<0.025	0.158	NS			
G-7-3	12.0	09/18/12	0	NS	NS	<10	<0.025	<0.025	<0.025	<0.025	0.038	0.0302	<0.025	<0.075	NS			
G-7-4	16.0	09/18/12	0	NS	NS	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-7-5	18.0	09/18/12	0	NOT SAMPLED											NS			
G-8-1	3.5	09/19/12	0	6.72	NS	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0	1.68E-02	
G-8-2	8.0	09/19/12	0	NS	NS	24	**0.212**	0.530	<0.025	0.132	0.500	**2.44**	**1.39**	3.6	NS			
G-8-3	12.0	09/19/12	0	NS	NS	<10	<0.025	<0.025	<0.025	0.048	0.0311	0.145	0.062	0.151	NS			
G-8-4	16.0	09/19/12	0	NOT SAMPLED											NS			
G-8-5	17.0	09/19/12	30	NS	NS	12	**0.123**	<0.025	<0.025	<0.025	<0.025	0.036	0.063	<0.075	NS			
G-9-1	3.5	09/19/12	0	2.55	NS	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0	6.38E-03	
G-9-2	8.0	09/19/12	0	NS	NS	<10	**0.066**	0.105	<0.025	<0.025	0.088	0.196	0.072	0.517	NS			
G-9-3	12.0	09/19/12	15	NS	NS	33	**0.226**	**1.9**	<0.025	0.267	0.640	**3.8**	**1.22**	**9**	NS			
G-9-4	16.0	09/19/12	350	NS	NS	1480	**2.77**	**31.2**	<0.250	**26**	**3.5**	**137**	**52**	**162**	NS			
G-9-5	18.0	09/19/12	70	NOT SAMPLED											NS			
G-9-6	NR	09/19/12		NO RECOVERY – PUSHED ROCK											NS			
G-10-1	3.5	09/19/12	0	22.6	NS	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0	5.65E-02	
G-10-2	8.0	09/19/12	0	NS	NS	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-10-3	12.0	09/19/12	0	NS	NS	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-10-4	15.5	09/19/12	50	NS	NS	690	**40**	1.12	<0.250	**2.93**	0.640	**5.7**	**2.67**	**5.95**	NS			
G-10-5	18.0	09/19/12	10	NOT SAMPLED											NS			
MW-4-1	3.5	09/19/12	0	NOT SAMPLED											NS			
MW-4-2	8.0	09/19/12	0	NOT SAMPLED											NS			
MW-4-3	12.0	09/19/12	0	NOT SAMPLED											NS			
MW-4-4	16.0	09/19/12	0	NOT SAMPLED											NS			
MW-4-5	20.0	09/19/12	0	NOT SAMPLED											NS			
MW-5-1	3.5	09/19/12	0	NOT SAMPLED											NS			
MW-5-2	8.0	09/19/12	0	NOT SAMPLED											NS			
MW-5-3	12.0	09/19/12	0	NOT SAMPLED											NS			
MW-5-4	16.0	09/19/12	100	NOT SAMPLED											NS			
MW-5-5	16.5	09/19/12	220	NS	NS	253	**0.520**	0.600	<0.025	**1.03**	0.690	**12.4**	**6**	3.16	NS			
MW-6-1	3.5	09/19/12	0	NOT SAMPLED											NS			
MW-6-2	8.0	09/19/12	0	NOT SAMPLED											NS			
MW-6-3	12.0	09/19/12	0	NOT SAMPLED											NS			
MW-6-4	16.0	09/19/12	120	NOT SAMPLED											NS			
MW-6-5	17.0	09/19/12	250	NS	NS	1690	**6.7**	**52**	<0.250	**9.8**	**89**	**86**	**35**	**245**	NS			
MW-6-6	21.0	09/19/12	180	NOT SAMPLED											NS			
MW-7-1	3.5	09/25/13	0	NOT SAMPLED											NS			
MW-7-2	8.0	09/25/13	0	NOT SAMPLED											NS			
MW-7-3	8-12	09/25/13		NO RECOVERY											NS			
MW-7-4	12-16	09/25/13		NO RECOVERY											NS			
MW-8-1	3.5	09/25/13	0	NOT SAMPLED											NS			
MW-8-2	8.0	09/25/13	0	NOT SAMPLED											NS			
MW-8-3	12.0	09/25/13	50	NOT SAMPLED											NS			
															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 =Industrial Direct Contact RCL Exceedance
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 Pre-remedial Soil Analytical Table
(VOC's)
Smith's Union 76 LUST Site BRRTS# 03-16-000069

Well Sampling Conducted on September 18, 2012

VOC's		Bold = Groundwater RCL	Underline & Bold = Direct Contact RCL	Asteric * & Bold =Soil Saturation (C-sat) RCL
Sample ID#	G-3-4			
Sample Depth/ft.	16			
Solids Percent	87.2	==	==	==
Lead/ppm	1.58 "J"	27	400	= =
GRO/ppm	1730	= =	= =	= =
Benzene/ppm	< 0.178	0.00512	1.49	1820
Bromobenzene/ppm	< 0.280	= =	354	= =
Bromodichloromethane/ppm	< 0.240	0.000326	0.39	= =
Bromoform/ppm	< 0.400	0.00233	61.6	= =
tert-Butylbenzene/ppm	< .1080	= =	183	183
sec-Butylbenzene/ppm	2.240 "J"	= =	145	145
n-Butylbenzene/ppm	12.1	= =	108	108
Carbon Tetrachloride/ppm	< 0.240	0.00388	0.85	= =
Chlorobenzene/ppm	<0.188	= =	392	= =
Chloroethane/ppm	< 2.840	0.227	= =	= =
Chloroform/ppm	< 0.920	0.0033	0.42	= =
Chloromethane/ppm	< 4.140	0.0155	171	= =
2-Chlorotoluene/ppm	< 1.680	= =	= =	= =
4-Chlorotoluene/ppm	< 1.520	= =	= =	= =
1,2-Dibromo-3-chloropropane/ppm	< 1.540	0.000173	0.01	= =
Dibromochloromethane/ppm	< 0.190	0.032	0.93	= =
1,4-Dichlorobenzene/ppm	< 1.040	0.144	3.48	= =
1,3-Dichlorobenzene/ppm	< 1.060	1.15	297	297
1,2-Dichlorobenzene/ppm	< 1.020	1.17	376	376
Dichlorodifluoromethane/ppm	< 0.240	3.08	135	= =
1,2-Dichloroethane/ppm	< 0.260	0.00284	0.61	540
1,1-Dichloroethane/ppm	< 0.220	0.484	4.72	= =
1,1-Dichloroethene/ppm	< 0.440	0.00502	342	= =
cis-1,2-Dichloroethene/ppm	< 0.280	0.0412	156	= =
trans-1,2-Dichloroethene/ppm	< 0.440	0.0588	211	= =
1,2-Dichloropropane/ppm	< 0.220	0.00332	1.33	= =
2,2-Dichloropropane/ppm	< 0.660	= =	527	527
1,3-Dichloropropane/ppm	< 0.220	= =	1490	1490
Di-isopropyl ether/ppm	< 0.940	= =	2260	2260
EDB (1,2-Dibromoethane)/ppm	< 0.340	0.0000282	0.05	= =
Ethylbenzene/ppm	**29.1**	1.57	7.47	480
Hexachlorobutadiene/ppm	< 1.900	= =	6.23	= =
Isopropylbenzene/ppm	7.3	= =	= =	= =
p-Isopropyltoluene/ppm	0.950 "J"	= =	162	162
Methylene chloride/ppm	< 2.380	0.00256	60.7	= =
Methyl tert-butyl ether (MTBE)/ppm	< 0.240	0.027	59.4	8870
Naphthalene/ppm	**14.2**	0.659	5.15	= =
n-Propylbenzene/ppm	35	= =	= =	= =
1,1,2,2-Tetrachloroethane/ppm	< 0.400	0.000156	0.75	= =
1,1,1,2-Tetrachloroethane/ppm	< 0.820	0.0533	2.59	= =
Tetrachloroethene (PCE)/ppm	< 0.480	0.00454	30.7	= =
Toluene/ppm	1.450 "J"	1.11	818	818
1,2,4-Trichlorobenzene/ppm	< 1.480	0.408	22.1	= =
1,2,3-Trichlorobenzene/ppm	< 2.580	= =	48.9	= =
1,1,1-Trichloroethane/ppm	< 0.220	0.14	= =	= =
1,1,2-Trichloroethane/ppm	< 0.320	0.00324	1.48	= =
Trichloroethene (TCE)/ppm	< 0.340	0.00358	0.64	= =
Trichlorofluoromethane/ppm	< 0.860	= =	1120	= =
1,2,4-Trimethylbenzene/ppm	**181**	1.38	89.8	219
1,3,5-Trimethylbenzene/ppm	**56**		182	182
Vinyl Chloride/ppm	< 0.320	0.000138	0.07	= =
m&p-Xylene/ppm	**141**	3.94	258	258
o-Xylene/ppm	**45**			

NS = not sampled, NM = Not Measured
(ppm) = parts per million
DRO = Diesel Range Organics
GRO = Gasoline Range Organics
= = No Exceedences

Summary of Free Product Levels and Recovery
Smith's Union 76 LUST Site BRRTS# 03-16-000069

DATE		MW-6	GALS REC./PERIOD	TOTAL GALS RECOVERED
10/2/2012	Inches of FP	0	0.00	0
	Gals Rec. w/ Absorbent Sock	No Sock		
	Gals Rec. w/ Bailer	0		
11/7/2013	Inches of FP	0	0.00	0
	Gals Rec. w/ Absorbent Sock	No Sock		
	Gals Rec. w/ Bailer	0		
2/19/2014	Inches of FP	0	0.00	0
	Gals Rec. w/ Absorbent Sock	No Sock		
	Gals Rec. w/ Bailer	0		
5/21/2014	Inches of FP	2	0.09	0.09
	Gals Rec. w/ Absorbent Sock	No Sock		
	Gals Rec. w/ Bailer	0.09		

A.1 Groundwater Analytical Table
(VOC's)
Smith's Union 76 LUST Site BRRTS# 03-16-000069

Sample ID	Date	Lead (ppm)	DRO (ppm)	GRO (ppm)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naph-thalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)	Other VOC's (ppb)
G-1-W	09/18/12	NS	NS	NS	<0.46	<0.46	<0.57	<2.3	<0.48	<1.57	<1.45	NS
G-2-W	09/18/12	NS	NS	NS	**6.8**	10.4	<0.57	*46*	2.79	*259*	191	NS
G-4-W	09/18/12	NS	NS	NS	**160**	15.9	<0.57	5.6	7.3	75	64.2	NS
G-5-W	09/18/12	NS	NS	NS	*3.8*	<0.46	<0.57	<2.3	<0.48	<1.57	0.8-1.54	NS
G-6-W	09/18/12	NS	NS	NS	**68**	<0.46	<0.57	<2.3	1.18	<1.57	1.4-2.14	NS
G-7-W	09/18/12	NS	NS	NS	*2.97*	<0.46	<0.57	<2.3	<0.48	<1.57	<1.45	NS
G-8-W	09/19/12	NS	NS	NS	**34**	0.52	<0.57	<2.3	1.82	<1.57	1.81-2.55	NS
G-9-W	09/19/12	NS	NS	NS	**39**	**1150**	<5.7	**630**	91	**3000**	**5710**	NS
G-10-W	09/19/12	NS	NS	NS	*4.1*	4.5	<0.57	3.01	0.52	2.53-3.32	8.9	NS
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	

A.1 Groundwater Analytical Table
(VOC's)
Smith's Union 76 LUST Site BRRTS# 03-16-000069

Well Sampling Conducted on September 18, 2012

VOC's Well Name	Potable Well	ENFORCE MENT STANDARD = ES – Bold	*PREVENTIVE ACTION LIMIT = PAL - Italics*
Benzene/ppb	< 0.24	**5**	*0.5*
Bromobenzene/ppb	< 0.31	==	==
Bromodichloromethane/ppb	< 0.33	==	==
Bromoform/ppb	< 0.33	==	==
tert-Butylbenzene/ppb	< 0.61	==	==
sec-Butylbenzene/ppb	< 0.47	==	==
n-Butylbenzene/ppb	< 0.25	==	==
Carbon Tetrachloride/ppb	< 1.1	==	==
Chlorobenzene/ppb	< 0.39	==	==
Chloroethane/ppb	< 0.32	==	==
Chloroform/ppb	< 0.3	==	==
Chloromethane/ppb	< 0.25	==	==
2-Chlorotoluene/ppb	< 0.39	==	==
4-Chlorotoluene/ppb	< 0.21	==	==
1,2-Dibromo-3-chloropropane/ppb	< 0.33	==	==
Dibromochloromethane/ppb	< 0.12	==	==
1,4-Dichlorobenzene/ppb	< 0.22	==	==
1,3-Dichlorobenzene/ppb	< 0.34	==	==
1,2-Dichlorobenzene/ppb	< 0.3	==	==
Dichlorodifluoromethane/ppb	< 0.38	==	==
1,2-Dichloroethane/ppb	< 0.37	**5**	*0.5*
1,1-Dichloroethane/ppb	< 0.42	==	==
1,1-Dichloroethene/ppb	< 0.38	==	==
cis-1,2-Dichloroethene/ppb	< 0.35	==	==
trans-1,2-Dichloroethene/ppb	< 1.9	==	==
1,2-Dichloropropane/ppb	< 0.21	==	==
2,2-Dichloropropane/ppb	< 0.37	==	==
1,3-Dichloropropane/ppb	< 0.25	==	==
Di-isopropyl ether/ppb	< 0.2	==	==
EDB (1,2-Dibromoethane)/ppb	< 0.27	**0.05**	*0.005*
Ethylbenzene/ppb	< 0.31	**700**	*140*
Hexachlorobutadiene/ppb	< 0.26	==	==
Isopropylbenzene/ppb	< 0.39	==	==
p-Isopropyltoluene/ppb	< 0.33	==	==
Methylene chloride/ppb	< 0.38	==	==
Methyl tert-butyl ether (MTBE)/ppb	< 0.34	**60**	*12*
Naphthalene/ppb	< 0.16	**100**	*10*
n-Propylbenzene/ppb	< 0.24	==	==
1,1,2,2-Tetrachloroethane/ppb	< 0.39	==	==
1,1,1,2-Tetrachloroethane/ppb	< 0.4	==	==
Tetrachloroethene (PCE)/ppb	< 0.39	**5**	*0.5*
Toluene/ppb	< 0.14	**800**	*160*
1,2,4-Trichlorobenzene/ppb	< 0.4	==	==
1,2,3-Trichlorobenzene/ppb	< 0.39	==	==
1,1,1-Trichloroethane/ppb	< 0.4	==	==
1,1,2-Trichloroethane/ppb	< 0.38	==	==
Trichloroethene (TCE)/ppb	< 0.57	**5**	*0.5*
Trichlorofluoromethane/ppb	< 0.3	==	==
1,2,4-Trimethylbenzene/ppb	< 0.15		
1,3,5-Trimethylbenzene/ppb	< 0.092	**480**	*96*
Vinyl Chloride/ppb	< 0.18	==	==
m&p-Xylene/ppb	< 0.65		
o-Xylene/ppb	< 0.32	**2000**	*400*

NS = not sampled, NM = Not Measured
Q = Analyte detected above laboratory method detection limit but below practical quantitation limit.
= = No Exceedences

A.1 Groundwater Analytical Table
Smith's Union 76 LUST Site BRRTS# 03-16-000069

Well Sampling Conducted on:	10/02/12	10/02/12	10/02/12	10/02/12	10/02/12	10/02/12	11/07/13	11/07/13	11/07/13	11/07/13	11/07/13		
VOC's												ENFORCE MENT STANDARD = ES – Bold	*PREVENTIVE ACTION LIMIT = PAL - Italics*
WellName	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	8182 E. Hughes	11423 S. Bus Hwy	11427 S. Bus Hwy 53		
Benzene/ppb	< 0.5	< 25	< 0.5	< 0.5	< 5	2420	116	< 0.24	< 0.24	< 0.24	< 0.24	5	*0.5*
Bromobenzene/ppb	< 0.74	< 37	< 0.74	< 0.74	< 7.4	< 148	< 3.2	< 0.32	< 0.33	< 0.33	< 0.33	==	==
Bromodichloromethane/ppb	< 0.68	< 34	< 0.68	< 0.68	< 6.8	< 136	< 3.7	< 0.37	< 0.27	< 0.27	< 0.27	==	==
Bromoform/ppb	< 0.43	< 21.5	< 0.43	< 0.43	< 4.3	< 86	< 3.5	< 0.35	< 0.34	< 0.34	< 0.34	==	==
tert-Butylbenzene/ppb	< 0.71	< 35.5	< 0.71	< 0.71	< 7.1	< 142	< 3.6	< 0.36	<0.98	< 0.98	< 0.98	==	==
sec-Butylbenzene/ppb	< 1	< 50	< 1	< 1	12.4 "J"	< 200	10.8	<0.33	< 0.25	< 0.25	< 0.25	==	==
n-Butylbenzene/ppb	4.3	59 "J"	< 0.9	< 0.9	63	< 180	32	< 0.35	< 0.24	< 0.24	< 0.24	==	==
Carbon Tetrachloride/ppb	< 0.47	< 23.5	< 0.47	< 0.47	< 4.7	< 94	< 3.3	< 0.33	< 0.62	< 0.62	< 0.62	==	==
Chlorobenzene/ppb	< 0.51	< 25.5	< 0.51	< 0.51	< 5.1	< 102	< 2.4	< 0.24	< 0.28	< 0.28	< 0.28	==	==
Chloroethane/ppb	< 1.4	< 70	< 1.4	< 1.4	< 14	< 280	< 6.3	< 0.63	< 0.81	< 0.81	< 0.81	==	==
Chloroform/ppb	< 0.49	< 24.5	< 0.49	< 0.49	< 4.9	< 98	< 2.8	< 0.28	< 0.35	< 0.35	< 0.35	==	==
Chloromethene/ppb	< 1.9	< 95	< 1.9	< 1.9	< 19	< 380	< 8.1	< 0.81	< 0.29	< 0.29	< 0.29	==	==
2-Chlorotoluene/ppb	< 0.7	< 35	< 0.7	< 0.7	< 7	< 140	< 2.1	< 0.21	< 0.2	< 0.2	< 0.2	==	==
4-Chlorotoluene/ppb	< 0.44	< 22	< 0.44	< 0.44	< 4.4	< 88	< 2.1	< 0.21	< 0.41	< 0.41	< 0.41	==	==
1,2-Dibromo-3-chloropropane/ppb	< 2.8	< 140	< 2.8	< 2.8	< 28	< 560	< 8.8	< 0.88	< 0.25	< 0.25	< 0.25	==	==
Dibromochloromethane/ppb	< 0.55	< 27.5	< 0.55	< 0.55	< 5.5	< 110	< 2.2	< 0.22	< 0.3	< 0.3	< 0.3	==	==
1,4-Dichlorobenzene/ppb	< 0.98	< 49	< 0.98	< 0.98	< 9.8	< 196	< 3	< 0.3	< 0.28	< 0.28	< 0.28	==	==
1,3-Dichlorobenzene/ppb	< 0.87	< 43.5	< 0.87	< 0.87	< 8.7	< 174	< 2.8	< 0.28	< 0.27	< 0.27	< 0.27	==	==
1,2-Dichlorobenzene/ppb	< 0.76	< 38	< 0.76	< 0.76	< 7.6	< 152	< 3.6	< 0.36	< 0.41	< 0.41	< 0.41	==	==
Dichlorodifluoromethane/ppb	< 1.8	< 90	< 1.8	< 1.8	< 18	< 360	< 4.4	< 0.44	< 0.3	< 0.3	< 0.3	==	==
1,2-Dichloroethane/ppb	< 0.5	< 25	< 0.5	< 0.5	< 5	< 100	< 4.1	< 0.41	< 0.31	< 0.31	< 0.31	5	*0.5*
1,1-Dichloroethane/ppb	< 0.98	< 49	< 0.98	< 0.98	< 9.8	< 196	<3	< 0.3	< 0.32	< 0.32	< 0.32	==	==
1,1-Dichloroethene/ppb	< 0.6	< 30	< 0.6	< 0.6	< 6	< 120	< 4	< 0.4	< 0.25	< 0.25	< 0.25	==	==
cis-1,2-Dichloroethene/ppb	< 0.74	< 37	< 0.74	< 0.74	< 7.4	< 148	< 3.8	< 0.38	< 0.32	< 0.32	< 0.32	==	==
trans-1,2-Dichloroethene/ppb	< 0.79	< 39.5	< 0.79	< 0.79	< 7.9	< 158	< 3.5	< 0.35	< 0.45	< 0.45	< 0.45	==	==
1,2-Dichloropropane/ppb	< 0.4	< 20	< 0.4	< 0.4	< 4	< 80	< 3.2	< 0.32	< 0.26	< 0.26	< 0.26	==	==
2,2-Dichloropropane/ppb	< 1.9	< 95	< 1.9	< 1.9	< 19	< 380	< 3.6	< 0.36	< 0.22	< 0.22	< 0.22	==	==
1,3-Dichloropropane/ppb	< 0.71	< 35.5	< 0.71	< 0.71	< 7.1	< 142	< 3.3	< 0.33	< 0.2	< 0.2	< 0.2	==	==
Di-Isopropyl ether/ppb	< 0.69	< 34.5	< 0.69	< 0.69	< 6.9	< 138	< 2.3	< 0.23	< 0.34	< 0.34	< 0.34	==	==
EDB (1,2-Dibromoethane)/ppb	< 0.63	< 31.5	< 0.63	< 0.63	< 6.3	< 126	< 4.4	< 0.44	< 0.27	< 0.27	< 0.27	0.05	*0.005*
Ethylbenzene/ppb	< 0.78	*228*	< 0.78	< 0.78	34	4700	*430*	< 0.55	< 0.48	< 0.48	< 0.48	700	*140*
Hexachlorobutadiane/ppb	< 2.2	< 110	< 2.2	< 2.2	< 22	< 440	< 15	< 1.5	< 0.3	< 0.3	< 0.3	==	==
Isopropylbenzene/ppb	< 0.92	< 46	< 0.92	< 0.92	19.2 "J"	< 184	45	< 0.3	< 0.3	< 0.3	< 0.3	==	==
p-Isopropyltoluene/ppb	< 0.92	< 46	< 0.92	< 0.92	13 "J"	< 184	3.9 "J"	< 0.31	< 0.35	< 0.35	< 0.35	==	==
Methylene chloride/ppb	< 1.1	< 55	< 1.1	< 1.1	< 11	< 220	< 5	< 0.5	< 0.26	< 0.26	< 0.26	==	==
Methyl tert-butyl ether (MTBE)/ppb	< 0.8	< 40	< 0.8	< 0.8	< 8	< 160	< 2.3	< 0.23	< 0.49	< 0.49	< 0.49	60	*12*
Naphthalene/ppb	< 2.1	< 105	< 2.1	< 2.1	*24.6 "J"*	680 "J"	134	< 1.7	< 0.23	< 0.23	< 0.23	100	*10*
n-Propylbenzene/ppb	< 0.59	260	< 0.59	< 0.59	98	520	204	< 0.25	< 0.45	< 0.45	< 0.45	==	==
1,1,2,2-Tetrachloroethane/ppb	< 0.53	< 26.5	< 0.53	< 0.53	< 5.3	< 106	< 4.5	< 0.45	< 0.29	< 0.29	< 0.29	==	==
1,1,1,2-Tetrachloroethane/ppb	< 1	< 50	< 1	< 1	< 10	< 200	< 3.3	< 0.33	< 0.27	< 0.27	< 0.27	==	==
Tetrachloroethene (PCE)/ppb	< 0.44	< 22	< 0.44	< 0.44	< 4.4	< 88	< 3.3	< 0.33	< 0.24	< 0.24	< 0.24	5	*0.5*
Toluene/ppb	< 0.53	40"J"	< 0.53	< 0.53	< 5.3	23200	16.6"J"	< 0.69	< 0.24	< 0.24	< 0.24	800	*160*
1,2,4-Trichlorobenzene/ppb	< 1.5	< 75	< 1.5	< 1.5	< 15	< 300	< 9.8	< 0.98	< 0.33	< 0.33	< 0.33	==	==
1,2,3-Trichlorobenzene/ppb	< 1.3	< 65	< 1.3	< 1.3	< 13	< 260	< 18	< 1.8	< 0.34	< 0.34	< 0.34	==	==
1,1,1-Trichloroethane/ppb	< 0.85	< 42.5	< 0.85	< 0.85	< 8.5	< 170	< 3.3	< 0.33	< 0.3	< 0.3	< 0.3	==	==
1,1,2-Trichloroethane/ppb	< 0.47	< 23.5	< 0.47	< 0.47	< 4.7	< 94	< 3.4	< 0.34	< 0.26	< 0.26	< 0.26	==	==
Trichloroethene (TCE)/ppb	< 0.47	< 23.5	< 0.47	< 0.47	< 4.7	< 94	< 3.3	< 0.33	< 0.91	< 0.91	< 0.91	5	*0.5*
Trichlorofluoromethane/ppb	< 1.7	< 85	< 1.7	< 1.7	< 17	< 340	< 7.1	< 0.71	< 0.41	< 0.41	< 0.41	==	==
1,2,4-Trimethylbenzene/ppb	< 0.8	1100	< 0.8	< 0.8	730	3300	980	< 2.2	< 0.31	< 0.31	< 0.31	480	*96*
1,3,5-Trimethylbenzene/ppb	< 0.74	*400*	< 0.74	< 0.74	*272*	880	287	< 1.4	< 0.26	< 0.26	< 0.26	==	==
Vinyl Chloride/ppb	< 0.18	< 9	< 0.18	< 0.18	< 1.8	< 36	< 1.8	< 0.18	< 0.18	< 0.18	< 0.18	2000	*400*
m&p-Xylene/ppb	< 1.1	*940*	< 1.1	< 1.1	179	16600	*1510*	1.56 "J"	< 0.69	< 0.69	< 0.69		
o-Xylene/ppb	< 0.8	370	< 0.8	< 0.8	< 8	7000	*54*	< 0.63	< 0.25	< 0.25	< 0.25		

NS = not sampled, NM = Not Measured
Q = Analyte detected above laboratory method detection limit but below practical quantitation limit.
= = No Exceedences

A.7 Water Level Elevations
Smith's Union 76 LUST Site BRRTS# 03-16-000069
Solon Springs, Wisconsin

	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8
pvc top (ft)	1076.09	1076.01	1076.55	1075.13	1074.47	1076.78	1069.57	1064.48
Date								
10/02/12	1061.47	1061.37	1062.92	1061.59	1061.35	1061.03	NI	NI
11/07/13	1061.44	1061.36	1062.87	1061.59	1061.35	1060.93	1059.77	1058.90
02/19/14	USP	1061.02	1062.45	CNL	1060.67	1060.64	1059.52	W
05/21/14	1062.44	1062.31	1063.86	1062.56	1062.48	1062.13	1060.78	1059.81

Note: Elevations are presented in feet mean sea level (msl).
NI = Not Installed
USP = Under Snow Pile
CNL = Could Not Locate
W = Water Over Well

A.1 Groundwater Analytical Table
Smith's Union 76 LUST Site BRRTS# 03-16-000069

Well MW-1
PVC Elevation = 1076.09 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naph-thalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
10/02/12	1061.47	14.62	<0.7	<0.5	<0.78	<0.8	<2.1	<0.53	<1.54	<1.9
11/07/13	1061.44	14.65	1.2	**44**	1.36	<0.37	<1.2	2.22	1.43-2.26	1.75-2.56
02/19/14	COULD NOT LOCATE – UNDER SNOW PILE									
05/21/14	1062.44	13.65	<0.7	52	0.88	<0.37	<1.2	1.38	<1.69	<2.41
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

NS = Not Sampled

Well MW-2
PVC Elevation = 1076.01 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naph-thalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
10/02/12	1061.37	14.64	<0.7	<25	*228*	<40	<105	40	1500	*1310*
11/07/13	1061.36	14.65	0.9	*3.14*	22.7	<0.37	6	3.2	*121*	118
02/19/14	1061.02	14.99	<0.7	23.5	138	<3.7	*54*	13.8	775	*740*
05/21/14	1062.31	13.70	5.9	52	*330*	<18.5	*65*	<40	1270	*1800*
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

NS = Not Sampled

Well MW-3
PVC Elevation = 1076.55 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naph-thalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
10/02/12	1062.92	13.63	<0.7	<0.5	<0.78	<0.8	<2.1	<0.53	<1.54	<1.9
11/07/13	1062.87	13.68	<0.7	<0.27	<0.82	<0.37	<1.2	<0.8	<1.69	<2.41
02/19/14	1062.45	14.10	<0.7	<0.27	<0.82	<0.37	<1.2	<0.8	<1.69	<2.41
05/21/14	1063.86	12.69	<0.7	<0.27	<0.82	<0.37	<1.2	<0.8	<1.69	<2.41
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

NS = Not Sampled

A.1 Groundwater Analytical Table
Smith's Union 76 LUST Site BRRTS# 03-16-000069

Well MW-4
PVC Elevation = 1075.13 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naph-thalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
10/02/12	1061.59	13.54	<0.7	<0.5	<0.78	<0.8	<2.1	<0.53	<1.54	<1.9
11/07/13	1061.59	13.54	<0.7	<0.27	<0.82	<0.37	<1.2	<0.8	<1.69	<2.41
02/19/14	COULD NOT LOCATE									
05/21/14	1062.56	12.57	<0.7	<0.27	<0.82	<0.37	<1.2	<0.8	<1.69	<2.41
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

NS = Not Sampled

Well MW-5
PVC Elevation = 1074.47 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naph-thalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
10/02/12	1061.35	13.12	*9.8*	<5	34	<8	*24.6*	<5.3	**1002**	179-187
11/07/13	1061.35	13.12	*2.4*	*0.64*	4.8	<0.37	2.44	<0.8	36.4	23.49
02/19/14	1060.67	13.80	*2.7*	<2.7	20.9	<3.7	*20.2*	<8	*241*	65-73.1
05/21/14	1062.48	11.99	<0.7	<2.7	24.8	<3.7	<12	<8	*153*	135-143.1
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

NS = Not Sampled

Well MW-6
PVC Elevation = 1076.78 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naph-thalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
10/02/12	1061.03	15.75	**7**	**2420**	**4700**	<160	**680**	**23200**	**4180**	**23600**
11/07/13	1060.93	15.85	**25.6**	**21.8**	39	<0.37	5.9	*175*	39.5	182
02/19/14	1060.64	16.14	**33**	**304**	**3200**	<37	**2540**	**3300**	**5280**	**14540**
05/21/14	1062.13	14.65	**19.3**	**2790**	**4900**	<185	**750**	**21000**	**4670**	**23800**
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

NS = Not Sampled

A.1 Groundwater Analytical Table
Smith's Union 76 LUST Site BRRTS# 03-16-000069

Well MW-7
PVC Elevation = 1069.57 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naph-thalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
11/07/13	1059.77	9.80	<0.7	**116**	*430*	<2.3	**134**	16.6	**1267**	*1564*
02/19/14	1059.52	10.05	<0.7	**23.7**	49	<0.37	9.8	2.41	74	185
05/21/14	1060.78	8.79	<0.7	*0.87*	<0.82	<0.37	<1.2	<0.8	<1.69	<2.41
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

NS = Not Sampled

Well MW-8
PVC Elevation = 1064.48 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naph-thalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
11/07/13	1058.90	5.58	<0.7	<0.24	<0.55	<0.23	<1.7	<0.69	<3.6	1.56-2.19
02/19/14	COULD NOT ACCESS – WATER RUNNING OVER WELL									
05/21/14	1059.81	4.67	<0.7	<0.27	<0.82	<0.37	<1.2	<0.8	2.09-2.95	4.81
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

NS = Not Sampled

Private Well 9182 E. Hughes

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naph-thalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
11/07/13	NM	NM	*3.2*	<0.24	<0.48	<0.49	<0.23	<0.24	<0.57	<0.94
02/19/14	NM	NM	<0.7	NOT SAMPLED						
05/21/14	NOT SAMPLED									
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

NS = Not Sampled

Private Well 11423 S. Bus Hwy

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naph-thalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
11/07/13	NM	NM	<0.7	<0.24	<0.48	<0.49	<0.23	<0.24	<0.57	<0.94
02/19/14	NOT SAMPLED									
05/21/14	NOT SAMPLED									
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

NS = Not Sampled

Private Well 11427 S. Bus Hwy 53

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naph-thalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
11/07/13	NM	NM	<0.7	<0.24	<0.48	<0.49	<0.23	<0.24	<0.57	<0.94
02/19/14	NOT SAMPLED									
05/21/14	NOT SAMPLED									
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

NS = Not Sampled

A.8 Other
Groundwater NA Indicator Results
Smith's Union 76 LUST Site BRRTS# 03-16-000069

Well MW-1

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppb)	Man-ganese (ppb)
10/02/12	0.36	6.81	57	14.3	189.00	0.39	8.12	1970	*75.3*
11/07/13	2.00	6.45	63	11.1	145.10	<0.1	6.92	0.16	27.8
02/19/14	COULD NOT LOCATE – UNDER SNOW PILE					NS	NS	NS	NS
05/21/14	0.80	6.08	105	5.5	590.00	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
Note: Elevations are presented in feet mean sea level (msl).

Well MW-2
PVC Elevation = 915.26 (feet) (MSL)

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppb)	Man-ganese (ppb)
10/02/12	0.08	6.76	52	14.4	205.80	0.39	6.37	2290	*106*
11/07/13	0.78	6.36	29	10.7	165.60	0.3	5.60	2.32	*68.4*
02/19/14	0.26	6.11	111	8.7	145.60	NS	NS	NS	NS
05/21/14	0.03	6.91	28	8.0	710.00	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
Note: Elevations are presented in feet mean sea level (msl).

Well MW-3
PVC Elevation = 916.55 (feet) (MSL)

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppb)	Man-ganese (ppb)
10/02/12	1.33	5.93	243	10.9	202.40	0.73	12	<60	23.2
11/07/13	6.12	6.93	136	10.7	1524.00	0.3	6.82	0.06	24.5
02/19/14	5.95	5.82	351	7.5	157.30	NS	NS	NS	NS
05/21/14	7.53	5.67	354	5.9	142.60	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
Note: Elevations are presented in feet mean sea level (msl).

A.8 Other
Groundwater NA Indicator Results
Smith's Union 76 LUST Site BRRTS# 03-16-000069

Well MW-4
PVC Elevation = 919.32 (feet) (MSL)

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppb)	Man-ganese (ppb)
10/02/12	0.40	6.51	229	14.0	203.40	0.16	6.72	80	*78.7*
11/07/13	0.24	6.27	192	13.1	316.60	0.5	7.62	0.16	***194***
02/19/14	COULD NOT LOCATE					NS	NS	NS	NS
05/21/14	0.06	5.73	150	4.5	522.00	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
Note: Elevations are presented in feet mean sea level (msl).

Well MW-5
PVC Elevation = 917.85 (feet) (MSL)

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppb)	Man-ganese (ppb)
10/02/12	0.18	7.08	-16	14.9	461.50	0.38	7.24	6660	**414**
11/07/13	1.00	6.52	-48	12.3	332.20	<0.1	4.62	6.23	*287*
02/19/14	0.28	6.4	56	8.1	533.00	NS	NS	NS	NS
05/21/14	0.92	6.51	61	7.9	3295.00	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
Note: Elevations are presented in feet mean sea level (msl).

Well MW-6
PVC Elevation = 914.18 (feet) (MSL)

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppb)	Man-ganese (ppb)
10/02/12	0.10	6.99	-32	14.0	1703.00	0.29	4.44	32500	***1760***
11/07/13	0.95	6.52	-45	11.0	2278.00	<0.1	<3.4	39.6	***4230***
02/19/14	0.97	6.26	-46	8.6	320.50	NS	NS	NS	NS
05/21/14	0.99	6.96	-80	9.4	1638.00	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
Note: Elevations are presented in feet mean sea level (msl).

A.8 Other
Groundwater NA Indicator Results
Smith's Union 76 LUST Site BRRTS# 03-16-000069

Well MW-7
PVC Elevation = 919.32 (feet) (MSL)

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppb)	Man-ganese (ppb)
11/07/13	1.46	6.38	35	10.8	753.00	0.4	<3.4	14.3	**1110**
02/19/14	8.62	7.12	60	2.8	4536.00	NS	NS	NS	NS
05/21/14	6.98	6.44	140	5.9	312.90	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
Note: Elevations are presented in feet mean sea level (msl).

Well MW-8
PVC Elevation = 919.32 (feet) (MSL)

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppb)	Man-ganese (ppb)
11/07/13	1.23	6.17	129	10.2	256.70	<0.1	10.6	0.35	*104*
02/19/14	COULD NOT ACCESS – WATER RUNNING OVER WELL					NS	NS	NS	NS
05/21/14	3.22	6.56	251	8.7	250.00	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
Note: Elevations are presented in feet mean sea level (msl).

SITE LAYOUT MAP

SMITH'S UNION 76 STATION

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

SOLON SPRINGS, WISCONSIN

DRAWN BY: ED

DATE: 06/27/202

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

- OVERHEAD LINES
- BURIED ELECTRIC
- TELEPHONE LINE
- NATURAL GAS
- SANITARY SEWER
- PROPERTY LINE

◑ - SOIL BORING LOCATION (TWIN CITY TESTING - 1990)

◓ - MONITORING WELL LOCATION

● - GEOPROBE BORING LOCATION

⊛ - POTABLE WELL LOCATION

SCALE:
1 INCH = 40 FEET
0 20 40

(NO PRIVATE WELL)
VACANT LOT
1489 S BUSINESS HIGHWAY 53
BEDNAR OIL
CLOSED LUST SITE
BRRTS# 03-16-000195

(COULD NOT LOCATE A PRIVATE WELL)
RESIDENTIAL

(COULD NOT LOCATE A PRIVATE WELL)
RESIDENTIAL

ALLEY

GRASS

COMMERCIAL PROPERTY
1423 S BUSINESS HIGHWAY 53

REMOVED 1,000 GALLON FUEL OIL UST

RETAINING WALL

FORMER SMITH'S UNION 76
1427 S BUSINESS HIGHWAY 53

CONCRETE

ASPHALT

APPROXIMATE LOCATION OF FORMER PUMP ISLAND

APPROXIMATE LOCATION OF REMOVED GASOLINE UST'S

SB-1
SB-2
SB-3
SB-4
MW-1
MW-2 (G-3)
MW-3 (G-5)
MW-4
MW-5
MW-6
MW-7
MW-8
G-1
G-2
G-4
G-6
G-7
G-8
G-9
G-10

HUGHES AVENUE

DOUGLAS COUNTY FORESTRY BUILDING
9182 E HUGHES AVENUE

PARK CREEK POND

DRAIN CULVERT

BOX CULVERT

BOX CULVERT

S BUSINESS HIGHWAY 53 (MAIN STREET)

FORMER MW-7
BEDNAR OIL

CANADIAN NATIONAL RAILWAY

RAILROAD STREET

PARK CREEK

CULVERT
CULVERT
CULVERT

FIBER OPTIC LINE

(NO PRIVATE WELL NOTED WITHIN 500 FEET)

STEEP BANK DROPS 10-12 FEET TO A WOODED AREA - NO ACCESS

FIBER OPTIC LINE

LUCIAS WOODS COUNTY PARK

FIBER OPTIC LINE

GROUNDWATER CONTOUR
OCTOBER 2, 2012
SMITH'S UNION 76 STATION

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Excellence through experience

SOLON SPRINGS, WISCONSIN

DRAWN BY: ED
DATE: 06/27/2012

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

- OVERHEAD LINES
- BURIED ELECTRIC
- TELEPHONE LINE
- NATURAL GAS
- SANITARY SEWER
- PROPERTY LINE

◑ - SOIL BORING LOCATION (TWIN CITY TESTING - 1990)
◕ - MONITORING WELL LOCATION
● - GEOPROBE BORING LOCATION
⊛ - POTABLE WELL LOCATION

SCALE:
1 INCH = 40 FEET
0 20 40

RESIDENTIAL
RESIDENTIAL
ALLEY
HUGHES AVENUE
BUSINESS HIGHWAY 53 (MAIN STREET)
CANADIAN NATIONAL RAILWAY
RAILROAD STREET
LUCIAS WOODS COUNTY PARK

VACANT LOT
1419 S BUSINESS HIGHWAY 53
BEDNAR OIL
CLOSED LUST SITE
BRRTS# 03-16-000095

FORMER MW-7
BEDNAR OIL

GRASS
COMMERCIAL PROPERTY
1423-S BUSINESS HIGHWAY 53
REMOVED 1,000 GALLON FUEL OIL UST'S
RETAINING WALL
FORMER SMITHS UNION 76
1427 S BUSINESS HIGHWAY 53
CONCRETE
ASPHALT
APPROXIMATE LOCATION OF FORMER PUMP ISLAND
APPROXIMATE LOCATION OF REMOVED GASOLINE UST'S
MW-1
MW-2 (G-3)
MW-3 (G-5)
MW-4
MW-5
MW-6
SB-1
SB-2
SB-3
SB-4
G-1
G-2
G-5
G-7
G-8
G-9

1062.92' MSL
1062.75' MSL
1062.50' MSL
1062.25' MSL
1062.00' MSL
1061.75' MSL
1061.59' MSL
1061.50' MSL
1061.47' MSL
1061.37' MSL
1061.35' MSL
1061.25' MSL
1061.03' MSL

DOUGLAS COUNTY OFFICE BUILDING
PARK CREEK POND
DRAIN CULVERT
BOX CULVERT
BOX CULVERT
PARK CREEK
CULVERT
CULVERT
CULVERT

GROUNDWATER CONTOUR NOVEMBER 7, 2013

SMITH'S UNION 76 STATION

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SOLON SPRINGS, WISCONSIN

DRAWN BY: ED
DATE: 06/27/2012

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

- OVERHEAD LINES
- BURIED ELECTRIC
- TELEPHONE LINE
- NATURAL GAS
- SANITARY SEWER
- PROPERTY LINE

◑ - SOIL BORING LOCATION (TWIN CITY TESTING - 1990)

◕ - MONITORING WELL LOCATION

● - GEOPROBE BORING LOCATION

⊛ - POTABLE WELL LOCATION

SCALE:
1 INCH = 40 FEET
0 20 40

(NO PRIVATE WELL)
VACANT LOT
1149 S BUSINESS HIGHWAY 53
BEDNAR OIL
CLOSED LUST SITE
BRRTS# 03-16-000195

(COULD NOT LOCATE A PRIVATE WELL) RESIDENTIAL

(COULD NOT LOCATE A PRIVATE WELL) RESIDENTIAL

ALLEY

GRASS

COMMERCIAL PROPERTY
1423 S BUSINESS HIGHWAY 53

REMOVED 1,000 GALLON FUEL OIL UST

ASPHALT

RETAINING WALL

SB-1

FORMER SMITH'S UNION 76
1427 S BUSINESS HIGHWAY 53

CONCRETE

APPROXIMATE LOCATION OF FORMER PUMP ISLAND

G-1
G-2
G-8
G-9
SB-2

APPROXIMATE LOCATION OF REMOVED GASOLINE USTS

1062.87' MSL
MW-3 (G-5)
G-6
G-7
G-4
MW-2 (G-3)
SB-3
MW-1
1061.44' MSL
1061.36' MSL
G-10
SB-4

HUGHES AVENUE

1062.50' MSL
1062.00' MSL
1061.59' MSL
MW-4
1061.50' MSL

DOUGLAS COUNTY FORESTRY BUILDING
9182 E HUGHES AVENUE

PARK CREEK POND

DRAIN CULVERT

BOX CULVERT

S BUSINESS HIGHWAY 53 (MAIN STREET)

FORMER MW-7
BEDNAR OIL

1060.93' MSL
MW-6

1061.35' MSL
MW-5

1061.00' MSL
1060.50' MSL
1060.00' MSL

CANADIAN NATIONAL RAILWAY

1059.77' MSL
MW-7

1059.50' MSL
1059.00' MSL

RAILROAD STREET

1058.90' MSL
MW-8

FIBER OPTIC LINE

(NO PRIVATE WELL NOTED WITHIN 500 FEET)

STEEP BANK DROPS 10-12 FEET TO A WOODED AREA - NO ACCESS

FIBER OPTIC LINE

LUCIAS WOODS COUNTY PARK

CULVERT
CULVERT
CULVERT

BOX CULVERT

PARK CREEK

FIBER OPTIC LINE

GROUNDWATER CONTOUR FEBRUARY 19, 2014

SMITH'S UNION 76 STATION

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Excellence through experience

SOLON SPRINGS, WISCONSIN

DRAWN BY: ED

DATE: 06/27/202

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

- OVERHEAD LINES
- BURIED ELECTRIC
- TELEPHONE LINE
- NATURAL GAS
- SANITARY SEWER
- PROPERTY LINE
- SOIL BORING LOCATION (TWIN CITY TESTING - 1990)
- MONITORING WELL LOCATION
- GEOPROBE BORING LOCATION
- POTABLE WELL LOCATION

SCALE:
1 INCH = 40 FEET
0 20 40

NOTE: MONITORING WELLS MW-1, -4, AND -8 WERE NOT USED TO CALCULATE GW FLOW AS THEY WERE COVERED BY SNOW/WATER

(NO PRIVATE WELL)
VACANT LOT
1419 S BUSINESS HIGHWAY 53
BEDNAR OIL
CLOSED LUST SITE
BRRTS# 03-16-000195

(COULD NOT LOCATE A PRIVATE WELL)
RESIDENTIAL

(COULD NOT LOCATE A PRIVATE WELL)
RESIDENTIAL

ALLEY

GRASS

COMMERCIAL PROPERTY
1423 S BUSINESS HIGHWAY 53

REMOVED 1,000 GALLON FUEL OIL UST

ASPHALT

RETAINING WALL

SB-1

FORMER SMITH'S UNION 76
1427 S BUSINESS HIGHWAY 53

CONCRETE

APPROXIMATE LOCATION OF FORMER PUMP ISLAND

G-1

G-2

SB-2

G-8

G-9

APPROXIMATE LOCATION OF REMOVED GASOLINE UST'S

1062.45' MSL

MW-3 (G-5)

G-6

G-7

G-4

MW-2 (G-3)

1061.02' MSL

SB-3

MW-1

SB-4

G-10

1062.00' MSL

1061.50' MSL

1061.00' MSL

HUGHES AVENUE

MW-4

FORMER MW-7
BEDNAR OIL

1060.64' MSL
MW-6

MW-5
1060.67' MSL

1060.50' MSL

1060.00' MSL

S BUSINESS HIGHWAY 53 (MAIN STREET)

CANADIAN NATIONAL RAILWAY

1059.52' MSL
MW-7

MW-8

RAILROAD STREET

FIBER OPTIC LINE

(NO PRIVATE WELL NOTED WITHIN 500 FEET)

STEEP BANK DROPS 10-12 FEET TO A WOODED AREA - NO ACCESS

LUCIAS WOODS COUNTY PARK

FIBER OPTIC LINE

DOUGLAS COUNTY FORESTRY BUILDING
9182 E HUGHES AVENUE

PARK CREEK POND

DRAIN CULVERT

BOX CULVERT

BOX CULVERT

PARK CREEK

CULVERT

CULVERT

CULVERT

GROUNDWATER CONTOUR MAY 21, 2014

SMITH'S UNION 76 STATION

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Excellence through experience

SOLON SPRINGS, WISCONSIN

DRAWN BY: ED

DATE: 06/27/202

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

- OVERHEAD LINES
- BURIED ELECTRIC
- TELEPHONE LINE
- NATURAL GAS
- SANITARY SEWER
- PROPERTY LINE

◑ - SOIL BORING LOCATION (TWIN CITY TESTING - 1990)

⊕ - MONITORING WELL LOCATION

● - GEOPROBE BORING LOCATION

⊛ - POTABLE WELL LOCATION

SCALE:
1 INCH = 40 FEET
0 20 40

NOTE: MONITORING WELL MW-6 WAS NOT USED TO CALCULATE GW FLOW DUE TO THE PRESENCE OF FREE PRODUCT

(NO PRIVATE WELL)
VACANT LOT
1419 S BUSINESS HIGHWAY 53
BEDNAR OIL
CLOSED LUST SITE
BRRTS# 03-16-000695

(COULD NOT LOCATE A PRIVATE WELL) RESIDENTIAL

(COULD NOT LOCATE A PRIVATE WELL) RESIDENTIAL

ALLEY

GRASS

COMMERCIAL PROPERTY
1423 S BUSINESS HIGHWAY 53

REMOVED 1,000 GALLON FUEL OIL UST

RETAINING WALL

FORMER SMITH'S UNION 76
1427 S BUSINESS HIGHWAY 53

CONCRETE

APPROXIMATE LOCATION OF FORMER PUMP ISLAND

APPROXIMATE LOCATION OF REMOVED GASOLINE UST

ASPHALT

HUGHES AVENUE

S BUSINESS HIGHWAY 53 (MAIN STREET)

FORMER MW-7
BEDNAR OIL

CANADIAN NATIONAL RAILWAY

RAILROAD STREET

(NO PRIVATE WELL NOTED WITHIN 500 FEET)

FIBER OPTIC LINE

STEEP BANK DROPS 10-12 FEET TO A WOODED AREA - NO ACCESS

LUCIAS WOODS COUNTY PARK

MW-1 1062.44' MSL
MW-2 (G-3) 1062.31' MSL
MW-3 (G-5)
MW-4 1062.56' MSL
MW-5 1062.48' MSL
MW-6
MW-7 1060.78' MSL
MW-8 1059.81' MSL

1063.86' MSL
1063.50' MSL
1063.00' MSL
1062.50' MSL
1062.00' MSL
1061.50' MSL
1061.00' MSL
1060.00' MSL
1059.50' MSL

SB-1 SB-2 SB-3 SB-4
G-1 G-2 G-4 G-5 G-6 G-7 G-8 G-9 G-10

DOUGLAS COUNTY FORESTRY BUILDING
9182 E. HUGHES AVENUE

BOX CULVERT

PARK CREEK

CULVERT
CULVERT
CULVERT

PARK CREEK POND

DRAIN CULVERT

BOX CULVERT

FIBER OPTIC LINE

PRE-REMEDIAL SOIL CONTAMINATION

SMITH'S UNION 76 STATION

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"Excellence through experience"

SOLON SPRINGS, WISCONSIN

DRAWN BY: ED

DATE: 06/27/202

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

- OVERHEAD LINES
- BURIED ELECTRIC
- TELEPHONE LINE
- NATURAL GAS
- SANITARY SEWER
- PROPERTY LINE

◑ - SOIL BORING LOCATION (TWIN CITY TESTING - 1990)

◕ - MONITORING WELL LOCATION

● - GEOPROBE BORING LOCATION

⊛ - POTABLE WELL LOCATION

SCALE:
1 INCH = 40 FEET
0 20 40

(NO PRIVATE WELL)
VACANT LOT
1419 S BUSINESS HIGHWAY 53
BEDNAR OIL
CLOSED LUST SITE
BRRTS# 03-16-000195

(COULD NOT LOCATE A PRIVATE WELL) RESIDENTIAL

(COULD NOT LOCATE A PRIVATE WELL) RESIDENTIAL

ALLEY

GRASS

COMMERCIAL PROPERTY
1423 S BUSINESS HIGHWAY 53

REMOVED 1,000 GALLON FUEL OIL UST

ASPHALT

RETAINING WALL

SB-1

FORMER SMITH'S UNION 76
1427 S BUSINESS HIGHWAY 53

APPROXIMATE LOCATION OF FORMER PUMP ISLAND

G-1

CONCRETE

SB-2

G-2

G-8

G-9

APPROXIMATE LOCATION OF REMOVED GASOLINE UST'S

MW-3 (G-5)

G-6

G-7

G-4

MW-2 (G-3)

SB-3

MW-1

SB-4

G-10

HUGHES AVENUE

ESTIMATED EXTENT OF UNSATURATED SOIL CONTAMINATION EXCEEDING THE NR720 GROUNDWATER RCL VALUES.

MW-4

DOUGLAS COUNTY FORESTRY BUILDING
9182 E. HUGHES AVENUE

PARK CREEK POND

DRAIN CULVERT

BOX CULVERT

S BUSINESS HIGHWAY 53 (MAIN STREET)

FORMER MW-7
BEDNAR OIL

MW-6

MW-5

CANADIAN NATIONAL RAILWAY

MW-7

MW-8

RAILROAD STREET

FIBER OPTIC LINE

(NO PRIVATE WELL NOTED WITHIN 500 FEET)

STEEP BANK DROPS 10-12 FEET TO A WOODED AREA - NO ACCESS

LUCIAS WOODS COUNTY PARK

BOX CULVERT

PARK CREEK

CULVERT

CULVERT

CULVERT

FIBER OPTIC LINE

GROUNDWATER CONTAMINATION MAY 21, 2014

SMITH'S UNION 76 STATION

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

SOLON SPRINGS, WISCONSIN

DRAWN BY: ED
DATE: 06/27/2012

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

- OVERHEAD LINES
- BURIED ELECTRIC
- TELEPHONE LINE
- NATURAL GAS
- SANITARY SEWER
- PROPERTY LINE
- SOIL BORING LOCATION (TWIN CITY TESTING - 1990)
- MONITORING WELL LOCATION
- GEOPROBE BORING LOCATION
- POTABLE WELL LOCATION

SCALE:
1 INCH = 40 FEET
0 20 40

(NO PRIVATE WELL)
VACANT LOT
1419 S BUSINESS HIGHWAY 53
BEDNAR OIL
CLOSED LUST SITE
BRRTS# 03-16-000695

(COULD NOT LOCATE A PRIVATE WELL) RESIDENTIAL

(COULD NOT LOCATE A PRIVATE WELL) RESIDENTIAL

ALLEY

GRASS

COMMERCIAL PROPERTY
1423 S BUSINESS HIGHWAY 53

REMOVED 1,000 GALLON FUEL OIL UST

ASPHALT

RETAINING WALL

SB-1

FORMER SMITH'S UNION 76
1427 S BUSINESS HIGHWAY 53

CONCRETE

APPROXIMATE LOCATION OF FORMER PUMP ISLAND

G-1

SB-2

G-2

G-8

G-9

APPROXIMATE LOCATION OF REMOVED GASOLINE UST'S

MW-3 (G-5)

G-6

G-7

G-4

MW-2 (G-3)

SB-3

MW-1

SB-4

G-10

HUGHES AVENUE

FORMER MW-7
BEDNAR OIL

MW-6

MW-7

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

ES

PAL

MW-5

MW-8

MW-4

S BUSINESS HIGHWAY 53 (MAIN STREET)

CANADIAN NATIONAL RAILWAY

RAILROAD STREET

FIBER OPTIC LINE

(NO PRIVATE WELL NOTED WITHIN 500 FEET)

STEEP BANK DROPS 10-12 FEET TO A WOODED AREA - NO ACCESS

LUCIAS WOODS COUNTY PARK

FIBER OPTIC LINE

DOUGLAS COUNTY FORESTRY BUILDING
9182 E HUGHES AVENUE

PARK CREEK POND

BOX CULVERT

DRAIN CULVERT

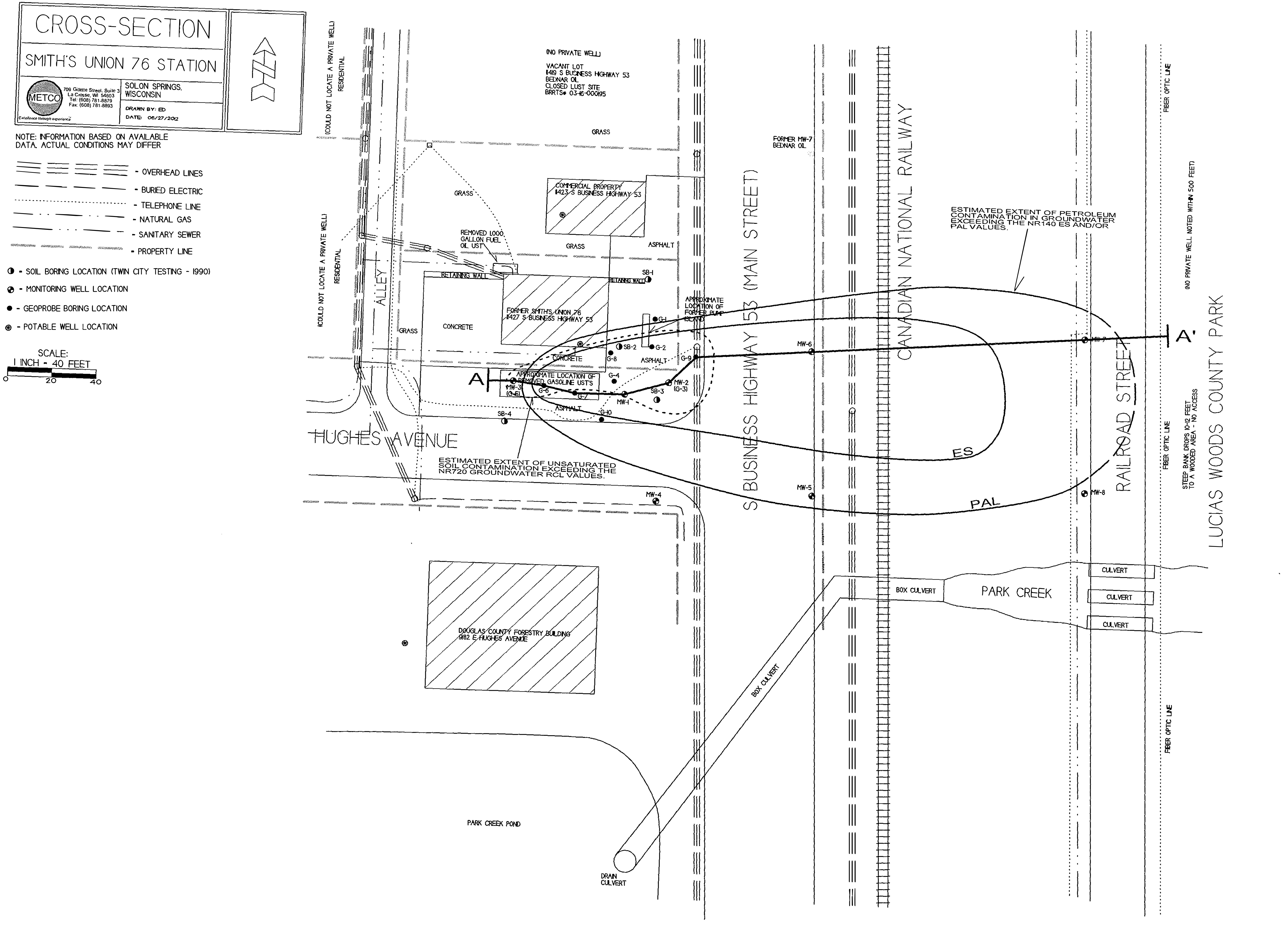
BOX CULVERT

PARK CREEK

CULVERT

CULVERT

CULVERT


CROSS-SECTION
SMITH'S UNION 76 STATION
METCO
709 Gillette Street, Suite 3
La Crosse, WI 54603
Tel: (608) 781-8879
Fax: (608) 781-8893
SOLON SPRINGS, WISCONSIN
DRAWN BY: ED
DATE: 06/27/2012
NOTE: INFORMATION BASED ON AVAILABLE DATA. ACTUAL CONDITIONS MAY DIFFER
- OVERHEAD LINES
- BURIED ELECTRIC
- TELEPHONE LINE
- NATURAL GAS
- SANITARY SEWER
- PROPERTY LINE
- SOIL BORING LOCATION (TWIN CITY TESTING - 1990)
- MONITORING WELL LOCATION
- GEOPROBE BORING LOCATION
- POTABLE WELL LOCATION
SCALE:
1 INCH = 40 FEET
0 20 40
(NO PRIVATE WELL)
VACANT LOT
1419 S BUSINESS HIGHWAY 53
BEDNAR OIL
CLOSED LUST SITE
BRRTS# 03-16-000195
(COULD NOT LOCATE A PRIVATE WELL) RESIDENTIAL
GRASS
COMMERCIAL PROPERTY
1423 S BUSINESS HIGHWAY 53
REMOVED 1,000 GALLON FUEL OIL UST
ASPHALT
RETAINING WALL
SB-1
FORMER SMITH'S UNION 76
1427 S BUSINESS HIGHWAY 53
CONCRETE
ALLEY
APPROXIMATE LOCATION OF FORMER PUMP ISLAND
APPROXIMATE LOCATION OF REMOVED GASOLINE USTS
G-1 G-2 G-4 G-5 G-6 G-7 G-8 G-9 G-10
SB-2 SB-3 SB-4
MW-1 MW-2 (G-3) MW-3 (G-5) MW-4 MW-5 MW-6 MW-7 MW-8
A A'
HUGHES AVENUE
ESTIMATED EXTENT OF UNSATURATED SOIL CONTAMINATION EXCEEDING THE NR720 GROUNDWATER RCL VALUES.
ESTIMATED EXTENT OF PETROLEUM CONTAMINATION IN GROUNDWATER EXCEEDING THE NR140 ES AND/OR PAL VALUES.
ES
PAL
FORMER MW-7
BEDNAR OIL
S BUSINESS HIGHWAY 53 (MAIN STREET)
CANADIAN NATIONAL RAILWAY
RAILROAD STREET
LUCIAS WOODS COUNTY PARK
FIBER OPTIC LINE
(NO PRIVATE WELL NOTED WITHIN 500 FEET)
STEEP BANK DROPS 10-12 FEET TO A WOODED AREA - NO ACCESS
DOUGLAS COUNTY FORESTRY BUILDING
9182 E HUGHES AVENUE
BOX CULVERT
PARK CREEK
CULVERT
PARK CREEK POND
DRAIN CULVERT

CROSS-SECTION

SMITH'S UNION 76 STATION

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

SOLON SPRINGS,
WISCONSIN

DRAWN BY: ED
DATE: 06/27/2012

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

SCALE:
1 INCH = 25 FEET
0 25

- OVERHEAD LINES
- BURIED ELECTRIC
- TELEPHONE LINE
- NATURAL GAS
- SANITARY SEWER
- PROPERTY LINE

◑ - SOIL BORING LOCATION (TWIN CITY TESTING - 1990)
◒ - MONITORING WELL LOCATION
● - GEOPROBE BORING LOCATION
⊛ - POTABLE WELL LOCATION

(COULD NOT LOCATE A PRIVATE WELL)
RESIDENTIAL
ALLEY
HUGHES AVENUE
GRASS
COMMERCIAL PROPERTY
11423 S BUSINESS HIGHWAY 53
REMOVED 1,000 GALLON FUEL OIL UST
RETAINING WALL
FORMER SMITH'S UNION 76
11427 S BUSINESS HIGHWAY 53
CONCRETE
ASPHALT
APPROXIMATE LOCATION OF REMOVED GASOLINE UST'S
APPROXIMATE LOCATION OF FORMER PUMP ISLAND
SB-1
SB-2
SB-3
SB-4
MW-1
MW-2 (G-3)
MW-3 (G-5)
MW-4
MW-5
MW-6
MW-7
MW-8
G-1
G-2
G-4
G-6
G-7
G-8
G-9
G-10
A
A'
FORMER MW-7
BEDNAR OIL
S BUSINESS HIGHWAY 53 (MAIN STREET)
RAILROAD STREET
ESTIMATED EXTENT OF PETROLEUM CONTAMINATION IN GROUNDWATER EXCEEDING THE NR140 ES AND/OR PAL VALUES.
ES
PAL
ESTIMATED EXTENT OF UNSATURATED SOIL CONTAMINATION EXCEEDING THE NR720 GROUNDWATER RCL VALUES.
(NO PRIVATE WELL NOTED WITHIN 500 FEET)
STEEP BANK DROPS 10-12 FEET TO A WOODED AREA - NO ACCESS
FIBER OPTIC LINE
FIBER OPTIC LINE
LUCIAS WOODS COUNTY PARK
BOX CULVERT
PARK CREEK
CULVERT
CULVERT
CULVERT
BOX CULVERT

GEOLOGIC CROSS-SECTION

SMITH'S UNION 76 STATION

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

SOLON SPRINGS, WISCONSIN

DRAWN BY: BW

DATE: 09/03/2014

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).

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

NOTE: SOIL AND GROUNDWATER SAMPLE DATA IS BASED ON LABORATORY RESULTS FROM SAMPLES COLLECTED DURING THE: GEOPROBE/DRILLING PROJECTS - (9/18-20/2012 & 9/25/2013) ROUND 4 GROUNDWATER SAMPLING - (5/21/2014)

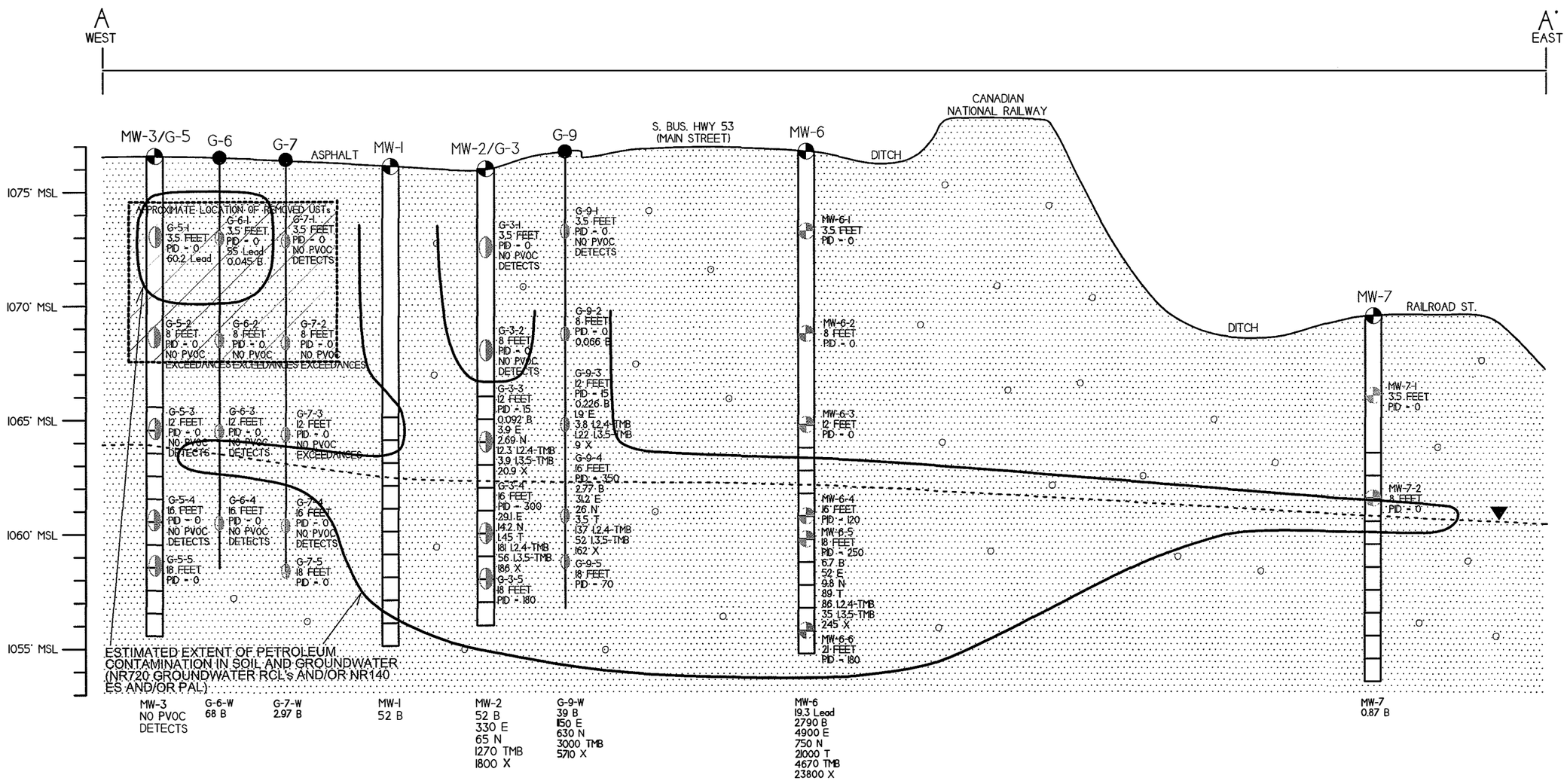
- ● - GEOPROBE BORING LOCATION
- ◖ - GEOPROBE BORING SAMPLING LOCATION
- ◔ - MONITORING WELL LOCATION
- ◔ - MONITORING WELL SAMPLING LOCATION
- ▼ - WATERTABLE

PID - PHOTO IONIZATION DETECTOR
PVOC - PETROLEUM VOLATILE ORGANIC COMPOUNDS
B - BENZENE
E - ETHYLBENZENE
N - NAPHTHALENE
T - TOLUENE
TMB - TRIMETHYLBENZENE
X - XYLENE

BROWN TO RED TO GRAY TO TAN, FINE TO COARSE GRAINED SAND TO SILTY SAND WITH GRAVEL (COBBLES NOTED IN MW-7 FROM 0-4 FEET BGS)

VERTICAL SCALE: 1 INCH = 5 FEET (0 to 5)

HORIZONTAL SCALE: 1 INCH = 25 FEET (0 to 25)



APPENDIX A/ METHODS OF INVESTIGATION

Site Investigation Report - METCO
Smith's Union 76 Station

Geoprobe Project

Geoprobe sampling was completed by Soil Essentials of New Glarus, 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 Soil Essentials and Range Environmental Drilling of Hibbing, Wisconsin, under the supervision of METCO personnel. Using a truck or track-mounted auger drill rig, all borings were completed in accordance with ASTM D-1452, "Soil Investigation and Sampling by Auger Boring," using 4.25-inch, inside-diameter (ID) hollow stem augers. Soil sampling was conducted using a geoprobe. Using this procedure an assembled stainless steel sampler is advanced to the top of the interval to be sampled, a stop-pin is then removed, and the sampler driven until filled.

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 Soil Essentials and Range Environmental Drilling 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 50-60 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 22, 2013, DKS Transport Services, LLC, of Menomonie, Wisconsin picked-up and disposed of five soil drums of soil cuttings and four drums 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

ADAM BACHAND
ADAM BACHAND
1406 BELKNAP STREET
SUPERIOR, WI 54880

Report Date *08-Oct-12*

Project Name SMITH'S UNION 76 **Invoice #** E24307
Project #

Lab Code 5024307A
Sample ID MEOH BLANK
Sample Matrix Soil
Sample Date 9/18/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	1.6	5.2	1	GRO95/8021		9/25/2012	CJR	1
Benzene	< 25	ug/kg	2.9	9.3	1	GRO95/8021		9/25/2012	CJR	1
Ethylbenzene	< 25	ug/kg	2.6	8.2	1	GRO95/8021		9/25/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		9/25/2012	CJR	1
Naphthalene	< 25	ug/kg	8.4	27	1	GRO95/8021		9/25/2012	CJR	1
Toluene	< 25	ug/kg	3.6	11	1	GRO95/8021		9/25/2012	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	2.7	8.6	1	GRO95/8021		9/25/2012	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	3	9.6	1	GRO95/8021		9/25/2012	CJR	1
m&p-Xylene	< 50	ug/kg	5.2	17	1	GRO95/8021		9/25/2012	CJR	1
o-Xylene	< 25	ug/kg	6.3	20	1	GRO95/8021		9/25/2012	CJR	1

Lab Code 5024307B
Sample ID TB
Sample Matrix Water
Sample Date 9/18/2012

	Result	Units	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		9/26/2012	CJR	1
Ethylbenzene	< 0.46	ug/l	0.46	1.5	1	GRO95/8021		9/26/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.57	ug/l	0.57	1.8	1	GRO95/8021		9/26/2012	CJR	1
Naphthalene	< 2.3	ug/l	2.3	7.2	1	GRO95/8021		9/26/2012	CJR	1
Toluene	< 0.48	ug/l	0.48	1.5	1	GRO95/8021		9/26/2012	CJR	1
1,2,4-Trimethylbenzene	< 0.78	ug/l	0.78	2.5	1	GRO95/8021		9/26/2012	CJR	1
1,3,5-Trimethylbenzene	< 0.79	ug/l	0.79	2.5	1	GRO95/8021		9/26/2012	CJR	1
m&p-Xylene	< 0.71	ug/l	0.71	2.3	1	GRO95/8021		9/26/2012	CJR	1
o-Xylene	< 0.74	ug/l	0.74	2.3	1	GRO95/8021		9/26/2012	CJR	1

Project Name SMITH'S UNION 76 **Invoice #** E24307
Project #

Lab Code 5024307C
Sample ID POTABLE WELL
Sample Matrix Drinking Water
Sample Date 9/18/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	524.2		9/24/2012	CJR	1
Bromobenzene	< 0.31	ug/l	0.31	0.99	1	524.2		9/24/2012	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.1	1	524.2		9/24/2012	CJR	1
Bromoform	< 0.33	ug/l	0.33	1.1	1	524.2		9/24/2012	CJR	1
Bromomethane	< 0.61	ug/l	0.61	1.9	1	524.2		9/24/2012	CJR	1
Carbon Tetrachloride	< 0.47	ug/l	0.47	1.5	1	524.2		9/24/2012	CJR	1
Chlorobenzene	< 0.25	ug/l	0.25	0.78	1	524.2		9/24/2012	CJR	1
Chloroethane	< 1.1	ug/l	1.1	3.4	1	524.2		9/24/2012	CJR	1
Chloroform	< 0.39	ug/l	0.39	1.2	1	524.2		9/24/2012	CJR	1
Chloromethane	< 0.32	ug/l	0.32	1	1	524.2		9/24/2012	CJR	1
2-Chlorotoluene	< 0.3	ug/l	0.3	0.94	1	524.2		9/24/2012	CJR	1
4-Chlorotoluene	< 0.25	ug/l	0.25	0.78	1	524.2		9/24/2012	CJR	1
Dibromochloromethane	< 0.39	ug/l	0.39	1.3	1	524.2		9/24/2012	CJR	1
Dibromomethane	< 0.21	ug/l	0.21	0.66	1	524.2		9/24/2012	CJR	1
1,4-Dichlorobenzene	< 0.33	ug/l	0.33	1	1	524.2		9/24/2012	CJR	1
1,3-Dichlorobenzene	< 0.12	ug/l	0.12	0.38	1	524.2		9/24/2012	CJR	1
1,2-Dichlorobenzene	< 0.22	ug/l	0.22	0.7	1	524.2		9/24/2012	CJR	1
Dichlorodifluoromethane	< 0.34	ug/l	0.34	1.1	1	524.2		9/24/2012	CJR	1
1,2-Dichloroethane	< 0.3	ug/l	0.3	0.96	1	524.2		9/24/2012	CJR	1
1,1-Dichloroethane	< 0.38	ug/l	0.38	1.2	1	524.2		9/24/2012	CJR	1
1,1-Dichloroethene	< 0.37	ug/l	0.37	1.2	1	524.2		9/24/2012	CJR	1
cis-1,2-Dichloroethene	< 0.42	ug/l	0.42	1.3	1	524.2		9/24/2012	CJR	1
trans-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	524.2		9/24/2012	CJR	1
1,2-Dichloropropane	< 0.35	ug/l	0.35	1.1	1	524.2		9/24/2012	CJR	1
2,2-Dichloropropane	< 1.9	ug/l	1.9	5.9	1	524.2		9/24/2012	CJR	1
1,3-Dichloropropane	< 0.21	ug/l	0.21	0.66	1	524.2		9/24/2012	CJR	1
trans-1,3-Dichloropropene	< 0.37	ug/l	0.37	1.2	1	524.2		9/24/2012	CJR	1
cis-1,3-Dichloropropene	< 0.25	ug/l	0.25	0.78	1	524.2		9/24/2012	CJR	1
1,1-Dichloropropene	< 0.2	ug/l	0.2	0.64	1	524.2		9/24/2012	CJR	1
Ethylbenzene	< 0.27	ug/l	0.27	0.85	1	524.2		9/24/2012	CJR	1
Hexachlorobutadiene	< 0.31	ug/l	0.31	0.98	1	524.2		9/24/2012	CJR	1
Isopropylbenzene	< 0.26	ug/l	0.26	0.82	1	524.2		9/24/2012	CJR	1
p-Isopropyltoluene	< 0.39	ug/l	0.39	1.3	1	524.2		9/24/2012	CJR	1
Methylene chloride	< 0.33	ug/l	0.33	1.1	1	524.2		9/24/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.38	ug/l	0.38	1.2	1	524.2		9/24/2012	CJR	1
Naphthalene	< 0.34	ug/l	0.34	1.1	1	524.2		9/24/2012	CJR	1
Styrene	< 0.16	ug/l	0.16	0.5	1	524.2		9/24/2012	CJR	1
1,1,2,2-Tetrachloroethane	< 0.24	ug/l	0.24	0.76	1	524.2		9/24/2012	CJR	1
1,1,1,2-Tetrachloroethane	< 0.39	ug/l	0.39	1.3	1	524.2		9/24/2012	CJR	1
Tetrachloroethene	< 0.4	ug/l	0.4	1.3	1	524.2		9/24/2012	CJR	1
Toluene	< 0.39	ug/l	0.39	1.2	1	524.2		9/24/2012	CJR	1
1,2,4-Trichlorobenzene	< 0.14	ug/l	0.14	0.45	1	524.2		9/24/2012	CJR	1
1,1,1-Trichloroethane	< 0.4	ug/l	0.4	1.3	1	524.2		9/24/2012	CJR	1
1,1,2-Trichloroethane	< 0.39	ug/l	0.39	1.3	1	524.2		9/24/2012	CJR	1
Trichloroethene (TCE)	< 0.4	ug/l	0.4	1.3	1	524.2		9/24/2012	CJR	1
Trichlorofluoromethane	< 0.38	ug/l	0.38	1.2	1	524.2		9/24/2012	CJR	1
1,2,3-Trichloropropane	< 0.57	ug/l	0.57	1.8	1	524.2		9/24/2012	CJR	1
Trichlorotrifluoroethane	< 0.3	ug/l	0.3	0.96	1	524.2		9/24/2012	CJR	1
1,2,4-Trimethylbenzene	< 0.15	ug/l	0.15	0.47	1	524.2		9/24/2012	CJR	1
1,3,5-Trimethylbenzene	< 0.092	ug/l	0.092	0.29	1	524.2		9/24/2012	CJR	1

Project Name SMITH'S UNION 76 **Invoice #** E24307
Project #

Lab Code 5024307C
Sample ID POTABLE WELL
Sample Matrix Drinking Water
Sample Date 9/18/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Vinyl Chloride	< 0.18	ug/l	0.18	0.56	1	524.2		9/24/2012	CJR	1
m&p-Xylene	< 0.65	ug/l	0.65	2.1	1	524.2		9/24/2012	CJR	1
o-Xylene	< 0.32	ug/l	0.32	1	1	524.2		9/24/2012	CJR	1

Lab Code 5024307D
Sample ID G-1-1
Sample Matrix Soil
Sample Date 9/18/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	94.4	%			1	5021		9/24/2012	MDK	1
Inorganic										
Metals										
Lead, Total	6.63	mg/Kg	0.6	1.92	2	6010B		9/26/2012	CWT	1 49
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	1.6	5.2	1	GRO95/8021		9/25/2012	CJR	1
Benzene	< 25	ug/kg	2.9	9.3	1	GRO95/8021		9/25/2012	CJR	1
Ethylbenzene	< 25	ug/kg	2.6	8.2	1	GRO95/8021		9/25/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		9/25/2012	CJR	1
Naphthalene	< 25	ug/kg	8.4	27	1	GRO95/8021		9/25/2012	CJR	1
Toluene	< 25	ug/kg	3.6	11	1	GRO95/8021		9/25/2012	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	2.7	8.6	1	GRO95/8021		9/25/2012	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	3	9.6	1	GRO95/8021		9/25/2012	CJR	1
m&p-Xylene	< 50	ug/kg	5.2	17	1	GRO95/8021		9/25/2012	CJR	1
o-Xylene	< 25	ug/kg	6.3	20	1	GRO95/8021		9/25/2012	CJR	1

Lab Code 5024307E
Sample ID G-1-2
Sample Matrix Soil
Sample Date 9/18/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	93.4	%			1	5021		9/24/2012	MDK	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	1.6	5.2	1	GRO95/8021		9/25/2012	CJR	1
Benzene	< 25	ug/kg	2.9	9.3	1	GRO95/8021		9/25/2012	CJR	1
Ethylbenzene	< 25	ug/kg	2.6	8.2	1	GRO95/8021		9/25/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		9/25/2012	CJR	1
Naphthalene	< 25	ug/kg	8.4	27	1	GRO95/8021		9/25/2012	CJR	1
Toluene	< 25	ug/kg	3.6	11	1	GRO95/8021		9/25/2012	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	2.7	8.6	1	GRO95/8021		9/25/2012	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	3	9.6	1	GRO95/8021		9/25/2012	CJR	1
m&p-Xylene	< 50	ug/kg	5.2	17	1	GRO95/8021		9/25/2012	CJR	1
o-Xylene	< 25	ug/kg	6.3	20	1	GRO95/8021		9/25/2012	CJR	1

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Lab Code 5024307F
Sample ID G-1-3
Sample Matrix Soil
Sample Date 9/18/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	93.6	%			1	5021		9/24/2012	MDK	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	1.6	5.2	1	GRO95/8021		9/25/2012	CJR	1
Benzene	< 25	ug/kg	2.9	9.3	1	GRO95/8021		9/25/2012	CJR	1
Ethylbenzene	< 25	ug/kg	2.6	8.2	1	GRO95/8021		9/25/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		9/25/2012	CJR	1
Naphthalene	< 25	ug/kg	8.4	27	1	GRO95/8021		9/25/2012	CJR	1
Toluene	< 25	ug/kg	3.6	11	1	GRO95/8021		9/25/2012	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	2.7	8.6	1	GRO95/8021		9/25/2012	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	3	9.6	1	GRO95/8021		9/25/2012	CJR	1
m&p-Xylene	< 50	ug/kg	5.2	17	1	GRO95/8021		9/25/2012	CJR	1
o-Xylene	< 25	ug/kg	6.3	20	1	GRO95/8021		9/25/2012	CJR	1

Lab Code 5024307G
Sample ID G-1-4
Sample Matrix Soil
Sample Date 9/18/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	88.0	%			1	5021		9/24/2012	MDK	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	1.6	5.2	1	GRO95/8021		9/25/2012	CJR	1
Benzene	< 25	ug/kg	2.9	9.3	1	GRO95/8021		9/25/2012	CJR	1
Ethylbenzene	< 25	ug/kg	2.6	8.2	1	GRO95/8021		9/25/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		9/25/2012	CJR	1
Naphthalene	< 25	ug/kg	8.4	27	1	GRO95/8021		9/25/2012	CJR	1
Toluene	< 25	ug/kg	3.6	11	1	GRO95/8021		9/25/2012	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	2.7	8.6	1	GRO95/8021		9/25/2012	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	3	9.6	1	GRO95/8021		9/25/2012	CJR	1
m&p-Xylene	< 50	ug/kg	5.2	17	1	GRO95/8021		9/25/2012	CJR	1
o-Xylene	< 25	ug/kg	6.3	20	1	GRO95/8021		9/25/2012	CJR	1

Lab Code 5024307H
Sample ID G-1-W
Sample Matrix Water
Sample Date 9/18/2012

	Result	Units	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		9/28/2012	CJR	1
Ethylbenzene	< 0.46	ug/l	0.46	1.5	1	GRO95/8021		9/28/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.57	ug/l	0.57	1.8	1	GRO95/8021		9/28/2012	CJR	1
Naphthalene	< 2.3	ug/l	2.3	7.2	1	GRO95/8021		9/28/2012	CJR	1
Toluene	< 0.48	ug/l	0.48	1.5	1	GRO95/8021		9/28/2012	CJR	1
1,2,4-Trimethylbenzene	< 0.78	ug/l	0.78	2.5	1	GRO95/8021		9/28/2012	CJR	1

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Lab Code 5024307H
Sample ID G-1-W
Sample Matrix Water
Sample Date 9/18/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3,5-Trimethylbenzene	< 0.79	ug/l	0.79	2.5	1	GRO95/8021		9/28/2012	CJR	1
m&p-Xylene	< 0.71	ug/l	0.71	2.3	1	GRO95/8021		9/28/2012	CJR	1
o-Xylene	< 0.74	ug/l	0.74	2.3	1	GRO95/8021		9/28/2012	CJR	1

Lab Code 5024307I
Sample ID G-2-1
Sample Matrix Soil
Sample Date 9/18/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	90.7	%			1	5021		9/24/2012	MDK	1
Inorganic										
Metals										
Lead, Total	41.8	mg/Kg	0.6	1.92	2	6010B		9/26/2012	CWT	1 49
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	1.6	5.2	1	GRO95/8021		9/26/2012	CJR	1
Benzene	51	ug/kg	2.9	9.3	1	GRO95/8021		9/26/2012	CJR	1
Ethylbenzene	27.8	ug/kg	2.6	8.2	1	GRO95/8021		9/26/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		9/26/2012	CJR	1
Naphthalene	57	ug/kg	8.4	27	1	GRO95/8021		9/26/2012	CJR	1
Toluene	218	ug/kg	3.6	11	1	GRO95/8021		9/26/2012	CJR	1
1,2,4-Trimethylbenzene	172	ug/kg	2.7	8.6	1	GRO95/8021		9/26/2012	CJR	1
1,3,5-Trimethylbenzene	100	ug/kg	3	9.6	1	GRO95/8021		9/26/2012	CJR	1
m&p-Xylene	242	ug/kg	5.2	17	1	GRO95/8021		9/26/2012	CJR	1
o-Xylene	183	ug/kg	6.3	20	1	GRO95/8021		9/26/2012	CJR	1

Lab Code 5024307J
Sample ID G-2-2
Sample Matrix Soil
Sample Date 9/18/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	96.9	%			1	5021		9/24/2012	MDK	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	1.6	5.2	1	GRO95/8021		9/26/2012	CJR	1
Benzene	< 25	ug/kg	2.9	9.3	1	GRO95/8021		9/26/2012	CJR	1
Ethylbenzene	< 25	ug/kg	2.6	8.2	1	GRO95/8021		9/26/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		9/26/2012	CJR	1
Naphthalene	< 25	ug/kg	8.4	27	1	GRO95/8021		9/26/2012	CJR	1
Toluene	64	ug/kg	3.6	11	1	GRO95/8021		9/26/2012	CJR	1
1,2,4-Trimethylbenzene	46	ug/kg	2.7	8.6	1	GRO95/8021		9/26/2012	CJR	1
1,3,5-Trimethylbenzene	29	ug/kg	3	9.6	1	GRO95/8021		9/26/2012	CJR	1
m&p-Xylene	70	ug/kg	5.2	17	1	GRO95/8021		9/26/2012	CJR	1
o-Xylene	45	ug/kg	6.3	20	1	GRO95/8021		9/26/2012	CJR	1

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Lab Code 5024307K
Sample ID G-2-3
Sample Matrix Soil
Sample Date 9/18/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	94.9	%			1	5021		9/24/2012	MDK	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	1.6	5.2	1	GRO95/8021		9/26/2012	CJR	1
Benzene	< 25	ug/kg	2.9	9.3	1	GRO95/8021		9/26/2012	CJR	1
Ethylbenzene	< 25	ug/kg	2.6	8.2	1	GRO95/8021		9/26/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		9/26/2012	CJR	1
Naphthalene	65	ug/kg	8.4	27	1	GRO95/8021		9/26/2012	CJR	1
Toluene	< 25	ug/kg	3.6	11	1	GRO95/8021		9/26/2012	CJR	1
1,2,4-Trimethylbenzene	128	ug/kg	2.7	8.6	1	GRO95/8021		9/26/2012	CJR	1
1,3,5-Trimethylbenzene	77	ug/kg	3	9.6	1	GRO95/8021		9/26/2012	CJR	1
m&p-Xylene	< 50	ug/kg	5.2	17	1	GRO95/8021		9/26/2012	CJR	1
o-Xylene	30.4	ug/kg	6.3	20	1	GRO95/8021		9/26/2012	CJR	1

Lab Code 5024307L
Sample ID G-2-4
Sample Matrix Soil
Sample Date 9/18/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	85.1	%			1	5021		9/24/2012	MDK	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	1420	mg/kg	16	52	10	GRO95/8021		9/26/2012	CJR	1
Benzene	2380	ug/kg	29	93	10	GRO95/8021		9/26/2012	CJR	1
Ethylbenzene	6500	ug/kg	26	82	10	GRO95/8021		9/26/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 250	ug/kg	81	260	10	GRO95/8021		9/26/2012	CJR	1
Naphthalene	15600	ug/kg	84	270	10	GRO95/8021		9/26/2012	CJR	1
Toluene	550	ug/kg	36	110	10	GRO95/8021		9/26/2012	CJR	1
1,2,4-Trimethylbenzene	113000	ug/kg	27	86	10	GRO95/8021		9/26/2012	CJR	1
1,3,5-Trimethylbenzene	53000	ug/kg	30	96	10	GRO95/8021		9/26/2012	CJR	1
m&p-Xylene	35000	ug/kg	52	170	10	GRO95/8021		9/26/2012	CJR	1
o-Xylene	14000	ug/kg	63	200	10	GRO95/8021		9/26/2012	CJR	1

Lab Code 5024307M
Sample ID G-2-W
Sample Matrix Water
Sample Date 9/18/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	6.8	ug/l	0.46	1.5	1	GRO95/8021		9/28/2012	CJR	1
Ethylbenzene	10.4	ug/l	0.46	1.5	1	GRO95/8021		9/28/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.57	ug/l	0.57	1.8	1	GRO95/8021		9/28/2012	CJR	1
Naphthalene	46	ug/l	2.3	7.2	1	GRO95/8021		9/28/2012	CJR	1
Toluene	2.79	ug/l	0.48	1.5	1	GRO95/8021		9/28/2012	CJR	1
1,2,4-Trimethylbenzene	198	ug/l	0.78	2.5	1	GRO95/8021		9/28/2012	CJR	1

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Lab Code 5024307M
Sample ID G-2-W
Sample Matrix Water
Sample Date 9/18/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3,5-Trimethylbenzene	61	ug/l	0.79	2.5	1	GRO95/8021		9/28/2012	CJR	1
m&p-Xylene	127	ug/l	0.71	2.3	1	GRO95/8021		9/28/2012	CJR	1
o-Xylene	64	ug/l	0.74	2.3	1	GRO95/8021		9/28/2012	CJR	1

Lab Code 5024307N
Sample ID G-3-1
Sample Matrix Soil
Sample Date 9/18/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	92.5	%			1	5021		9/24/2012	MDK	1
Inorganic										
Metals										
Lead, Total	1.29 "J"	mg/Kg	0.6	1.92	2	6010B		9/26/2012	CWT	1 49
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	1.6	5.2	1	GRO95/8021		9/26/2012	CJR	1
Benzene	< 25	ug/kg	2.9	9.3	1	GRO95/8021		9/26/2012	CJR	1
Ethylbenzene	< 25	ug/kg	2.6	8.2	1	GRO95/8021		9/26/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		9/26/2012	CJR	1
Naphthalene	< 25	ug/kg	8.4	27	1	GRO95/8021		9/26/2012	CJR	1
Toluene	< 25	ug/kg	3.6	11	1	GRO95/8021		9/26/2012	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	2.7	8.6	1	GRO95/8021		9/26/2012	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	3	9.6	1	GRO95/8021		9/26/2012	CJR	1
m&p-Xylene	< 50	ug/kg	5.2	17	1	GRO95/8021		9/26/2012	CJR	1
o-Xylene	< 25	ug/kg	6.3	20	1	GRO95/8021		9/26/2012	CJR	1

Lab Code 5024307O
Sample ID G-3-2
Sample Matrix Soil
Sample Date 9/18/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	97.2	%			1	5021		9/24/2012	MDK	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	1.6	5.2	1	GRO95/8021		9/26/2012	CJR	1
Benzene	< 25	ug/kg	2.9	9.3	1	GRO95/8021		9/26/2012	CJR	1
Ethylbenzene	< 25	ug/kg	2.6	8.2	1	GRO95/8021		9/26/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		9/26/2012	CJR	1
Naphthalene	< 25	ug/kg	8.4	27	1	GRO95/8021		9/26/2012	CJR	1
Toluene	< 25	ug/kg	3.6	11	1	GRO95/8021		9/26/2012	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	2.7	8.6	1	GRO95/8021		9/26/2012	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	3	9.6	1	GRO95/8021		9/26/2012	CJR	1
m&p-Xylene	< 50	ug/kg	5.2	17	1	GRO95/8021		9/26/2012	CJR	1
o-Xylene	< 25	ug/kg	6.3	20	1	GRO95/8021		9/26/2012	CJR	1

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Project #

Lab Code 5024307P
Sample ID G-3-3
Sample Matrix Soil
Sample Date 9/18/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	91.5	%			1	5021		9/24/2012	MDK	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	103	mg/kg	1.6	5.2	1	GRO95/8021		9/26/2012	CJR	1
Benzene	92	ug/kg	2.9	9.3	1	GRO95/8021		9/26/2012	CJR	1
Ethylbenzene	3900	ug/kg	2.6	8.2	1	GRO95/8021		9/26/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		9/26/2012	CJR	1
Naphthalene	2690	ug/kg	8.4	27	1	GRO95/8021		9/26/2012	CJR	1
Toluene	390	ug/kg	3.6	11	1	GRO95/8021		9/26/2012	CJR	1
1,2,4-Trimethylbenzene	12300	ug/kg	2.7	8.6	1	GRO95/8021		9/26/2012	CJR	1
1,3,5-Trimethylbenzene	3900	ug/kg	3	9.6	1	GRO95/8021		9/26/2012	CJR	1
m&p-Xylene	15500	ug/kg	5.2	17	1	GRO95/8021		9/26/2012	CJR	1
o-Xylene	5400	ug/kg	6.3	20	1	GRO95/8021		9/26/2012	CJR	1

Lab Code 5024307Q
Sample ID G-3-4
Sample Matrix Soil
Sample Date 9/18/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	87.2	%			1	5021		9/24/2012	MDK	1
Inorganic										
Metals										
Lead, Total	1.58 "J"	mg/Kg	0.6	1.92	2	6010B		9/26/2012	CWT	1 49
Organic										
General										
Gasoline Range Organics	1730	mg/kg	16	52	10	GRO95/8021		9/26/2012	CJR	1
VOC's										
Benzene	< 178	ug/kg	178	560	20	8260B		10/4/2012	CJR	1
Bromobenzene	< 280	ug/kg	280	860	20	8260B		10/4/2012	CJR	1
Bromodichloromethane	< 240	ug/kg	240	740	20	8260B		10/4/2012	CJR	1
Bromoform	< 400	ug/kg	400	1240	20	8260B		10/4/2012	CJR	1
tert-Butylbenzene	< 1080	ug/kg	1080	3460	20	8260B		10/4/2012	CJR	1
sec-Butylbenzene	2240 "J"	ug/kg	1020	3240	20	8260B		10/4/2012	CJR	1
n-Butylbenzene	12100	ug/kg	960	3040	20	8260B		10/4/2012	CJR	1
Carbon Tetrachloride	< 240	ug/kg	240	780	20	8260B		10/4/2012	CJR	1
Chlorobenzene	< 188	ug/kg	188	600	20	8260B		10/4/2012	CJR	1
Chloroethane	< 2840	ug/kg	2840	9040	20	8260B		10/4/2012	CJR	1
Chloroform	< 920	ug/kg	920	2920	20	8260B		10/4/2012	CJR	1
Chloromethane	< 4140	ug/kg	4140	13160	20	8260B		10/4/2012	CJR	1
2-Chlorotoluene	< 1680	ug/kg	1680	5340	20	8260B		10/4/2012	CJR	1
4-Chlorotoluene	< 1520	ug/kg	1520	4820	20	8260B		10/4/2012	CJR	1
1,2-Dibromo-3-chloropropane	< 1540	ug/kg	1540	4900	20	8260B		10/4/2012	CJR	1
Dibromochloromethane	< 190	ug/kg	190	600	20	8260B		10/4/2012	CJR	1
1,4-Dichlorobenzene	< 1040	ug/kg	1040	3340	20	8260B		10/4/2012	CJR	1
1,3-Dichlorobenzene	< 1060	ug/kg	1060	3400	20	8260B		10/4/2012	CJR	1
1,2-Dichlorobenzene	< 1020	ug/kg	1020	3280	20	8260B		10/4/2012	CJR	1

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Lab Code 5024307Q
Sample ID G-3-4
Sample Matrix Soil
Sample Date 9/18/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Dichlorodifluoromethane	< 240	ug/kg	240	740	20	8260B		10/4/2012	CJR	1
1,2-Dichloroethane	< 260	ug/kg	260	840	20	8260B		10/4/2012	CJR	1
1,1-Dichloroethane	< 220	ug/kg	220	660	20	8260B		10/4/2012	CJR	1
1,1-Dichloroethene	< 440	ug/kg	440	1380	20	8260B		10/4/2012	CJR	1
cis-1,2-Dichloroethene	< 280	ug/kg	280	880	20	8260B		10/4/2012	CJR	1
trans-1,2-Dichloroethene	< 440	ug/kg	440	1380	20	8260B		10/4/2012	CJR	1
1,2-Dichloropropane	< 220	ug/kg	220	720	20	8260B		10/4/2012	CJR	1
2,2-Dichloropropane	< 660	ug/kg	660	2080	20	8260B		10/4/2012	CJR	4
1,3-Dichloropropane	< 220	ug/kg	220	700	20	8260B		10/4/2012	CJR	1
Di-isopropyl ether	< 940	ug/kg	940	2960	20	8260B		10/4/2012	CJR	1
EDB (1,2-Dibromoethane)	< 340	ug/kg	340	1080	20	8260B		10/4/2012	CJR	1
Ethylbenzene	29100	ug/kg	1100	3500	20	8260B		10/4/2012	CJR	1
Hexachlorobutadiene	< 1900	ug/kg	1900	6060	20	8260B		10/4/2012	CJR	1
Isopropylbenzene	7300	ug/kg	1060	3360	20	8260B		10/4/2012	CJR	1
p-Isopropyltoluene	950 "J"	ug/kg	900	2860	20	8260B		10/4/2012	CJR	1
Methylene chloride	< 2380	ug/kg	2380	7600	20	8260B		10/4/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 240	ug/kg	240	760	20	8260B		10/4/2012	CJR	1
Naphthalene	14200	ug/kg	2140	6800	20	8260B		10/4/2012	CJR	1
n-Propylbenzene	35000	ug/kg	1060	3380	20	8260B		10/4/2012	CJR	1
1,1,2,2-Tetrachloroethane	< 400	ug/kg	400	1280	20	8260B		10/4/2012	CJR	1
1,1,1,2-Tetrachloroethane	< 820	ug/kg	820	2640	20	8260B		10/4/2012	CJR	1
Tetrachloroethene	< 480	ug/kg	480	1560	20	8260B		10/4/2012	CJR	1
Toluene	1450 "J"	ug/kg	1000	3180	20	8260B		10/4/2012	CJR	1
1,2,4-Trichlorobenzene	< 1480	ug/kg	1480	4740	20	8260B		10/4/2012	CJR	1
1,2,3-Trichlorobenzene	< 2580	ug/kg	2580	8180	20	8260B		10/4/2012	CJR	1
1,1,1-Trichloroethane	< 220	ug/kg	220	680	20	8260B		10/4/2012	CJR	1
1,1,2-Trichloroethane	< 320	ug/kg	320	1040	20	8260B		10/4/2012	CJR	1
Trichloroethene (TCE)	< 340	ug/kg	340	1060	20	8260B		10/4/2012	CJR	1
Trichlorofluoromethane	< 860	ug/kg	860	2740	20	8260B		10/4/2012	CJR	1
1,2,4-Trimethylbenzene	181000	ug/kg	1600	5060	20	8260B		10/4/2012	CJR	1
1,3,5-Trimethylbenzene	56000	ug/kg	960	3020	20	8260B		10/4/2012	CJR	1
Vinyl Chloride	< 320	ug/kg	320	980	20	8260B		10/4/2012	CJR	1
m&p-Xylene	141000	ug/kg	1720	5480	20	8260B		10/4/2012	CJR	1
o-Xylene	45000	ug/kg	1000	3180	20	8260B		10/4/2012	CJR	1
SUR - Toluene-d8	102	Rec %			20	8260B		10/4/2012	CJR	1
SUR - Dibromofluoromethane	96	Rec %			20	8260B		10/4/2012	CJR	1
SUR - 4-Bromofluorobenzene	103	Rec %			20	8260B		10/4/2012	CJR	1
SUR - 1,2-Dichloroethane-d4	96	Rec %			20	8260B		10/4/2012	CJR	1

Lab Code 5024307R
Sample ID G-4-1
Sample Matrix Soil
Sample Date 9/18/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	94.5	%			1	5021		9/24/2012	MDK	1
Inorganic										
Metals										
Lead, Total	24.0	mg/Kg	0.6	1.92	2	6010B		9/26/2012	CWT	1 49
Organic										

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Lab Code 5024307R
Sample ID G-4-1
Sample Matrix Soil
Sample Date 9/18/2012

	Result		Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
GRO/PVOC + Naphthalene											
Gasoline Range Organics		< 10	mg/kg	1.6	5.2	1	GRO95/8021		9/27/2012	CJR	1
Benzene	42		ug/kg	2.9	9.3	1	GRO95/8021		9/27/2012	CJR	1
Ethylbenzene	50		ug/kg	2.6	8.2	1	GRO95/8021		9/27/2012	CJR	1
Methyl tert-butyl ether (MTBE)		< 25	ug/kg	8.1	26	1	GRO95/8021		9/27/2012	CJR	1
Naphthalene	40		ug/kg	8.4	27	1	GRO95/8021		9/27/2012	CJR	1
Toluene	125		ug/kg	3.6	11	1	GRO95/8021		9/27/2012	CJR	1
1,2,4-Trimethylbenzene	230		ug/kg	2.7	8.6	1	GRO95/8021		9/27/2012	CJR	1
1,3,5-Trimethylbenzene	126		ug/kg	3	9.6	1	GRO95/8021		9/27/2012	CJR	1
m&p-Xylene	288		ug/kg	5.2	17	1	GRO95/8021		9/27/2012	CJR	1
o-Xylene	160		ug/kg	6.3	20	1	GRO95/8021		9/27/2012	CJR	1

Lab Code 5024307S
Sample ID G-4-2
Sample Matrix Soil
Sample Date 9/18/2012

	Result		Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General											
General											
Solids Percent	95.4		%			1	5021		9/24/2012	MDK	1
Organic											
GRO/PVOC + Naphthalene											
Gasoline Range Organics		< 10	mg/kg	1.6	5.2	1	GRO95/8021		9/27/2012	CJR	1
Benzene	27.1		ug/kg	2.9	9.3	1	GRO95/8021		9/27/2012	CJR	1
Ethylbenzene		< 25	ug/kg	2.6	8.2	1	GRO95/8021		9/27/2012	CJR	1
Methyl tert-butyl ether (MTBE)		< 25	ug/kg	8.1	26	1	GRO95/8021		9/27/2012	CJR	1
Naphthalene	27.6		ug/kg	8.4	27	1	GRO95/8021		9/27/2012	CJR	1
Toluene	78		ug/kg	3.6	11	1	GRO95/8021		9/27/2012	CJR	1
1,2,4-Trimethylbenzene	84		ug/kg	2.7	8.6	1	GRO95/8021		9/27/2012	CJR	1
1,3,5-Trimethylbenzene	47		ug/kg	3	9.6	1	GRO95/8021		9/27/2012	CJR	1
m&p-Xylene	100		ug/kg	5.2	17	1	GRO95/8021		9/27/2012	CJR	1
o-Xylene	52		ug/kg	6.3	20	1	GRO95/8021		9/27/2012	CJR	1

Lab Code 5024307T
Sample ID G-4-3
Sample Matrix Soil
Sample Date 9/18/2012

	Result		Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General											
General											
Solids Percent	95.0		%			1	5021		9/24/2012	MDK	1
Organic											
GRO/PVOC + Naphthalene											
Gasoline Range Organics		< 10	mg/kg	1.6	5.2	1	GRO95/8021		9/27/2012	CJR	1
Benzene		< 25	ug/kg	2.9	9.3	1	GRO95/8021		9/27/2012	CJR	1
Ethylbenzene		< 25	ug/kg	2.6	8.2	1	GRO95/8021		9/27/2012	CJR	1
Methyl tert-butyl ether (MTBE)		< 25	ug/kg	8.1	26	1	GRO95/8021		9/27/2012	CJR	1
Naphthalene		< 25	ug/kg	8.4	27	1	GRO95/8021		9/27/2012	CJR	1
Toluene		< 25	ug/kg	3.6	11	1	GRO95/8021		9/27/2012	CJR	1
1,2,4-Trimethylbenzene		< 25	ug/kg	2.7	8.6	1	GRO95/8021		9/27/2012	CJR	1

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Lab Code 5024307T
Sample ID G-4-3
Sample Matrix Soil
Sample Date 9/18/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3,5-Trimethylbenzene	< 25	ug/kg	3	9.6	1	GRO95/8021		9/27/2012	CJR	1
m&p-Xylene	< 50	ug/kg	5.2	17	1	GRO95/8021		9/27/2012	CJR	1
o-Xylene	< 25	ug/kg	6.3	20	1	GRO95/8021		9/27/2012	CJR	1

Lab Code 5024307U
Sample ID G-4-4
Sample Matrix Soil
Sample Date 9/18/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	83.7	%			1	5021		9/24/2012	MDK	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	370	mg/kg	16	52	10	GRO95/8021		9/28/2012	CJR	1
Benzene	550	ug/kg	29	93	10	GRO95/8021		9/28/2012	CJR	1
Ethylbenzene	< 250	ug/kg	26	82	10	GRO95/8021		9/28/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 250	ug/kg	81	260	10	GRO95/8021		9/28/2012	CJR	1
Naphthalene	< 250	ug/kg	84	270	10	GRO95/8021		9/28/2012	CJR	1
Toluene	< 250	ug/kg	36	110	10	GRO95/8021		9/28/2012	CJR	1
1,2,4-Trimethylbenzene	2360	ug/kg	27	86	10	GRO95/8021		9/28/2012	CJR	1
1,3,5-Trimethylbenzene	2540	ug/kg	30	96	10	GRO95/8021		9/28/2012	CJR	1
m&p-Xylene	1030	ug/kg	52	170	10	GRO95/8021		9/28/2012	CJR	1
o-Xylene	850	ug/kg	63	200	10	GRO95/8021		9/28/2012	CJR	1

Lab Code 5024307V
Sample ID G-4-W
Sample Matrix Water
Sample Date 9/18/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	160	ug/l	0.46	1.5	1	GRO95/8021		9/28/2012	CJR	1
Ethylbenzene	15.9	ug/l	0.46	1.5	1	GRO95/8021		9/28/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.57	ug/l	0.57	1.8	1	GRO95/8021		9/28/2012	CJR	1
Naphthalene	5.6 "J"	ug/l	2.3	7.2	1	GRO95/8021		9/28/2012	CJR	1
Toluene	7.3	ug/l	0.48	1.5	1	GRO95/8021		9/28/2012	CJR	1
1,2,4-Trimethylbenzene	43	ug/l	0.78	2.5	1	GRO95/8021		9/28/2012	CJR	1
1,3,5-Trimethylbenzene	32	ug/l	0.79	2.5	1	GRO95/8021		9/28/2012	CJR	1
m&p-Xylene	52	ug/l	0.71	2.3	1	GRO95/8021		9/28/2012	CJR	1
o-Xylene	12.2	ug/l	0.74	2.3	1	GRO95/8021		9/28/2012	CJR	1

Lab Code 5024307W
Sample ID G-5-1
Sample Matrix Soil
Sample Date 9/18/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	88.4	%			1	5021		9/24/2012	MDK	1

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Lab Code 5024307W
Sample ID G-5-1
Sample Matrix Soil
Sample Date 9/18/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Total	60.2	mg/Kg	0.6	1.92	2	6010B		9/26/2012	CWT	149
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	1.6	5.2	1	GRO95/8021		9/27/2012	CJR	1
Benzene	< 25	ug/kg	2.9	9.3	1	GRO95/8021		9/27/2012	CJR	1
Ethylbenzene	< 25	ug/kg	2.6	8.2	1	GRO95/8021		9/27/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		9/27/2012	CJR	1
Naphthalene	< 25	ug/kg	8.4	27	1	GRO95/8021		9/27/2012	CJR	1
Toluene	< 25	ug/kg	3.6	11	1	GRO95/8021		9/27/2012	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	2.7	8.6	1	GRO95/8021		9/27/2012	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	3	9.6	1	GRO95/8021		9/27/2012	CJR	1
m&p-Xylene	< 50	ug/kg	5.2	17	1	GRO95/8021		9/27/2012	CJR	1
o-Xylene	< 25	ug/kg	6.3	20	1	GRO95/8021		9/27/2012	CJR	1

Lab Code 5024307X
Sample ID G-5-2
Sample Matrix Soil
Sample Date 9/18/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	93.3	%			1	5021		9/24/2012	MDK	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	1.6	5.2	1	GRO95/8021		9/27/2012	CJR	1
Benzene	< 25	ug/kg	2.9	9.3	1	GRO95/8021		9/27/2012	CJR	1
Ethylbenzene	71	ug/kg	2.6	8.2	1	GRO95/8021		9/27/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		9/27/2012	CJR	1
Naphthalene	< 25	ug/kg	8.4	27	1	GRO95/8021		9/27/2012	CJR	1
Toluene	34	ug/kg	3.6	11	1	GRO95/8021		9/27/2012	CJR	1
1,2,4-Trimethylbenzene	28.4	ug/kg	2.7	8.6	1	GRO95/8021		9/27/2012	CJR	1
1,3,5-Trimethylbenzene	33	ug/kg	3	9.6	1	GRO95/8021		9/27/2012	CJR	1
m&p-Xylene	163	ug/kg	5.2	17	1	GRO95/8021		9/27/2012	CJR	1
o-Xylene	53	ug/kg	6.3	20	1	GRO95/8021		9/27/2012	CJR	1

Lab Code 5024307Y
Sample ID G-5-3
Sample Matrix Soil
Sample Date 9/18/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	96.7	%			1	5021		9/24/2012	MDK	1
Organic										
GRO/PVOC + Naphthalene										
Benzene	< 25	ug/kg	2.9	9.3	1	GRO95/8021		9/27/2012	CJR	13
Ethylbenzene	< 25	ug/kg	2.6	8.2	1	GRO95/8021		9/27/2012	CJR	13

Project Name SMITH'S UNION 76 **Invoice #** E24307
Project #

Lab Code 5024307Y
Sample ID G-5-3
Sample Matrix Soil
Sample Date 9/18/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		9/27/2012	CJR	13
Naphthalene	< 25	ug/kg	8.4	27	1	GRO95/8021		9/27/2012	CJR	13
Toluene	< 25	ug/kg	3.6	11	1	GRO95/8021		9/27/2012	CJR	13
1,2,4-Trimethylbenzene	< 25	ug/kg	2.7	8.6	1	GRO95/8021		9/27/2012	CJR	13
1,3,5-Trimethylbenzene	< 25	ug/kg	3	9.6	1	GRO95/8021		9/27/2012	CJR	13
m&p-Xylene	< 50	ug/kg	5.2	17	1	GRO95/8021		9/27/2012	CJR	13
o-Xylene	< 25	ug/kg	6.3	20	1	GRO95/8021		9/27/2012	CJR	13

Lab Code 5024307Z
Sample ID G-5-4
Sample Matrix Soil
Sample Date 9/18/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	86.7	%			1	5021		9/24/2012	MDK	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	1.6	5.2	1	GRO95/8021		9/27/2012	CJR	1
Benzene	< 25	ug/kg	2.9	9.3	1	GRO95/8021		9/27/2012	CJR	1
Ethylbenzene	< 25	ug/kg	2.6	8.2	1	GRO95/8021		9/27/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		9/27/2012	CJR	1
Naphthalene	< 25	ug/kg	8.4	27	1	GRO95/8021		9/27/2012	CJR	1
Toluene	< 25	ug/kg	3.6	11	1	GRO95/8021		9/27/2012	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	2.7	8.6	1	GRO95/8021		9/27/2012	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	3	9.6	1	GRO95/8021		9/27/2012	CJR	1
m&p-Xylene	< 50	ug/kg	5.2	17	1	GRO95/8021		9/27/2012	CJR	1
o-Xylene	< 25	ug/kg	6.3	20	1	GRO95/8021		9/27/2012	CJR	1

Lab Code 524307AA
Sample ID G-5-W
Sample Matrix Water
Sample Date 9/18/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	3.8	ug/l	0.46	1.5	1	GRO95/8021		9/28/2012	CJR	1
Ethylbenzene	< 0.46	ug/l	0.46	1.5	1	GRO95/8021		9/28/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.57	ug/l	0.57	1.8	1	GRO95/8021		9/28/2012	CJR	1
Naphthalene	< 2.3	ug/l	2.3	7.2	1	GRO95/8021		9/28/2012	CJR	1
Toluene	< 0.48	ug/l	0.48	1.5	1	GRO95/8021		9/28/2012	CJR	1
1,2,4-Trimethylbenzene	< 0.78	ug/l	0.78	2.5	1	GRO95/8021		9/28/2012	CJR	1
1,3,5-Trimethylbenzene	< 0.79	ug/l	0.79	2.5	1	GRO95/8021		9/28/2012	CJR	1
m&p-Xylene	0.8 "J"	ug/l	0.71	2.3	1	GRO95/8021		9/28/2012	CJR	1
o-Xylene	< 0.74	ug/l	0.74	2.3	1	GRO95/8021		9/28/2012	CJR	1

Project Name SMITH'S UNION 76 **Invoice #** E24307
Project #

Lab Code 524307BB
Sample ID G-6-1
Sample Matrix Soil
Sample Date 9/18/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	92.1	%			1	5021		9/24/2012	MDK	1
Inorganic										
Metals										
Lead, Total	55.0	mg/kg	0.6	1.92	2	6010B		9/26/2012	ESC	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	1.6	5.2	1	GRO95/8021		9/27/2012	CJR	13
Benzene	45	ug/kg	2.9	9.3	1	GRO95/8021		9/27/2012	CJR	13
Ethylbenzene	41	ug/kg	2.6	8.2	1	GRO95/8021		9/27/2012	CJR	13
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		9/27/2012	CJR	13
Naphthalene	< 25	ug/kg	8.4	27	1	GRO95/8021		9/27/2012	CJR	13
Toluene	95	ug/kg	3.6	11	1	GRO95/8021		9/27/2012	CJR	13
1,2,4-Trimethylbenzene	68	ug/kg	2.7	8.6	1	GRO95/8021		9/27/2012	CJR	13
1,3,5-Trimethylbenzene	48	ug/kg	3	9.6	1	GRO95/8021		9/27/2012	CJR	13
m&p-Xylene	207	ug/kg	5.2	17	1	GRO95/8021		9/27/2012	CJR	13
o-Xylene	76	ug/kg	6.3	20	1	GRO95/8021		9/27/2012	CJR	13

Lab Code 524307CC
Sample ID G-6-2
Sample Matrix Soil
Sample Date 9/18/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	91.2	%			1	5021		9/24/2012	MDK	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	1.6	5.2	1	GRO95/8021		9/27/2012	CJR	1
Benzene	< 25	ug/kg	2.9	9.3	1	GRO95/8021		9/27/2012	CJR	1
Ethylbenzene	< 25	ug/kg	2.6	8.2	1	GRO95/8021		9/27/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		9/27/2012	CJR	1
Naphthalene	< 25	ug/kg	8.4	27	1	GRO95/8021		9/27/2012	CJR	1
Toluene	56	ug/kg	3.6	11	1	GRO95/8021		9/27/2012	CJR	1
1,2,4-Trimethylbenzene	58	ug/kg	2.7	8.6	1	GRO95/8021		9/27/2012	CJR	1
1,3,5-Trimethylbenzene	37	ug/kg	3	9.6	1	GRO95/8021		9/27/2012	CJR	1
m&p-Xylene	105	ug/kg	5.2	17	1	GRO95/8021		9/27/2012	CJR	1
o-Xylene	51	ug/kg	6.3	20	1	GRO95/8021		9/27/2012	CJR	1

Lab Code 524307DD
Sample ID G-6-3
Sample Matrix Soil
Sample Date 9/18/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	94.8	%			1	5021		9/24/2012	MDK	1
Organic										

Project Name SMITH'S UNION 76 **Invoice #** E24307
Project #

Lab Code 524307DD
Sample ID G-6-3
Sample Matrix Soil
Sample Date 9/18/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	1.6	5.2	1	GRO95/8021		9/27/2012	CJR	1
Benzene	< 25	ug/kg	2.9	9.3	1	GRO95/8021		9/27/2012	CJR	1
Ethylbenzene	< 25	ug/kg	2.6	8.2	1	GRO95/8021		9/27/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		9/27/2012	CJR	1
Naphthalene	< 25	ug/kg	8.4	27	1	GRO95/8021		9/27/2012	CJR	1
Toluene	< 25	ug/kg	3.6	11	1	GRO95/8021		9/27/2012	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	2.7	8.6	1	GRO95/8021		9/27/2012	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	3	9.6	1	GRO95/8021		9/27/2012	CJR	1
m&p-Xylene	< 50	ug/kg	5.2	17	1	GRO95/8021		9/27/2012	CJR	1
o-Xylene	< 25	ug/kg	6.3	20	1	GRO95/8021		9/27/2012	CJR	1

Lab Code 524307EE
Sample ID G-6-4
Sample Matrix Soil
Sample Date 9/18/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	95.6	%			1	5021		9/24/2012	MDK	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	1.6	5.2	1	GRO95/8021		9/27/2012	CJR	1
Benzene	< 25	ug/kg	2.9	9.3	1	GRO95/8021		9/27/2012	CJR	1
Ethylbenzene	< 25	ug/kg	2.6	8.2	1	GRO95/8021		9/27/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		9/27/2012	CJR	1
Naphthalene	< 25	ug/kg	8.4	27	1	GRO95/8021		9/27/2012	CJR	1
Toluene	< 25	ug/kg	3.6	11	1	GRO95/8021		9/27/2012	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	2.7	8.6	1	GRO95/8021		9/27/2012	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	3	9.6	1	GRO95/8021		9/27/2012	CJR	1
m&p-Xylene	< 50	ug/kg	5.2	17	1	GRO95/8021		9/27/2012	CJR	1
o-Xylene	< 25	ug/kg	6.3	20	1	GRO95/8021		9/27/2012	CJR	1

Lab Code 524307FF
Sample ID G-6-W
Sample Matrix Water
Sample Date 9/18/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	68	ug/l	0.46	1.5	1	GRO95/8021		9/28/2012	CJR	1
Ethylbenzene	< 0.46	ug/l	0.46	1.5	1	GRO95/8021		9/28/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.57	ug/l	0.57	1.8	1	GRO95/8021		9/28/2012	CJR	1
Naphthalene	< 2.3	ug/l	2.3	7.2	1	GRO95/8021		9/28/2012	CJR	1
Toluene	1.18 "J"	ug/l	0.48	1.5	1	GRO95/8021		9/28/2012	CJR	1
1,2,4-Trimethylbenzene	< 0.78	ug/l	0.78	2.5	1	GRO95/8021		9/28/2012	CJR	1
1,3,5-Trimethylbenzene	< 0.79	ug/l	0.79	2.5	1	GRO95/8021		9/28/2012	CJR	1
m&p-Xylene	1.4 "J"	ug/l	0.71	2.3	1	GRO95/8021		9/28/2012	CJR	1
o-Xylene	< 0.74	ug/l	0.74	2.3	1	GRO95/8021		9/28/2012	CJR	1

Project Name SMITH'S UNION 76 **Invoice #** E24307
Project #

Lab Code 524307GG
Sample ID G-7-1
Sample Matrix Soil
Sample Date 9/18/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	98.7	%			1	5021		9/24/2012	MDK	1
Inorganic										
Metals										
Lead, Total	1.08 "J"	mg/Kg	0.6	1.92	2	6010B		9/26/2012	CWT	1 49
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	1.6	5.2	1	GRO95/8021		9/27/2012	CJR	1
Benzene	< 25	ug/kg	2.9	9.3	1	GRO95/8021		9/27/2012	CJR	1
Ethylbenzene	< 25	ug/kg	2.6	8.2	1	GRO95/8021		9/27/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		9/27/2012	CJR	1
Naphthalene	< 25	ug/kg	8.4	27	1	GRO95/8021		9/27/2012	CJR	1
Toluene	< 25	ug/kg	3.6	11	1	GRO95/8021		9/27/2012	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	2.7	8.6	1	GRO95/8021		9/27/2012	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	3	9.6	1	GRO95/8021		9/27/2012	CJR	1
m&p-Xylene	< 50	ug/kg	5.2	17	1	GRO95/8021		9/27/2012	CJR	1
o-Xylene	< 25	ug/kg	6.3	20	1	GRO95/8021		9/27/2012	CJR	1

Lab Code 524307HH
Sample ID G-7-2
Sample Matrix Soil
Sample Date 9/18/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	98.0	%			1	5021		9/24/2012	MDK	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	1.6	5.2	1	GRO95/8021		9/27/2012	CJR	1
Benzene	< 25	ug/kg	2.9	9.3	1	GRO95/8021		9/27/2012	CJR	1
Ethylbenzene	< 25	ug/kg	2.6	8.2	1	GRO95/8021		9/27/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		9/27/2012	CJR	1
Naphthalene	< 25	ug/kg	8.4	27	1	GRO95/8021		9/27/2012	CJR	1
Toluene	< 25	ug/kg	3.6	11	1	GRO95/8021		9/27/2012	CJR	1
1,2,4-Trimethylbenzene	34	ug/kg	2.7	8.6	1	GRO95/8021		9/27/2012	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	3	9.6	1	GRO95/8021		9/27/2012	CJR	1
m&p-Xylene	93	ug/kg	5.2	17	1	GRO95/8021		9/27/2012	CJR	1
o-Xylene	65	ug/kg	6.3	20	1	GRO95/8021		9/27/2012	CJR	1

Lab Code 524307II
Sample ID G-7-3
Sample Matrix Soil
Sample Date 9/18/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	95.8	%			1	5021		9/24/2012	MDK	1
Organic										

Project Name SMITH'S UNION 76 **Invoice #** E24307
Project #

Lab Code 524307II
Sample ID G-7-3
Sample Matrix Soil
Sample Date 9/18/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	1.6	5.2	1	GRO95/8021		9/27/2012	CJR	1
Benzene	< 25	ug/kg	2.9	9.3	1	GRO95/8021		9/27/2012	CJR	1
Ethylbenzene	< 25	ug/kg	2.6	8.2	1	GRO95/8021		9/27/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		9/27/2012	CJR	1
Naphthalene	< 25	ug/kg	8.4	27	1	GRO95/8021		9/27/2012	CJR	1
Toluene	38	ug/kg	3.6	11	1	GRO95/8021		9/27/2012	CJR	1
1,2,4-Trimethylbenzene	30.2	ug/kg	2.7	8.6	1	GRO95/8021		9/27/2012	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	3	9.6	1	GRO95/8021		9/27/2012	CJR	1
m&p-Xylene	< 50	ug/kg	5.2	17	1	GRO95/8021		9/27/2012	CJR	1
o-Xylene	< 25	ug/kg	6.3	20	1	GRO95/8021		9/27/2012	CJR	1

Lab Code 524307JJ
Sample ID G-7-4
Sample Matrix Soil
Sample Date 9/18/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	85.5	%			1	5021		9/24/2012	MDK	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	1.6	5.2	1	GRO95/8021		9/27/2012	CJR	1
Benzene	< 25	ug/kg	2.9	9.3	1	GRO95/8021		9/27/2012	CJR	1
Ethylbenzene	< 25	ug/kg	2.6	8.2	1	GRO95/8021		9/27/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		9/27/2012	CJR	1
Naphthalene	< 25	ug/kg	8.4	27	1	GRO95/8021		9/27/2012	CJR	1
Toluene	< 25	ug/kg	3.6	11	1	GRO95/8021		9/27/2012	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	2.7	8.6	1	GRO95/8021		9/27/2012	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	3	9.6	1	GRO95/8021		9/27/2012	CJR	1
m&p-Xylene	< 50	ug/kg	5.2	17	1	GRO95/8021		9/27/2012	CJR	1
o-Xylene	< 25	ug/kg	6.3	20	1	GRO95/8021		9/27/2012	CJR	1

Lab Code 524307KK
Sample ID G-7-W
Sample Matrix Water
Sample Date 9/18/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	2.97	ug/l	0.46	1.5	1	GRO95/8021		9/28/2012	CJR	1
Ethylbenzene	< 0.46	ug/l	0.46	1.5	1	GRO95/8021		9/28/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.57	ug/l	0.57	1.8	1	GRO95/8021		9/28/2012	CJR	1
Naphthalene	< 2.3	ug/l	2.3	7.2	1	GRO95/8021		9/28/2012	CJR	1
Toluene	< 0.48	ug/l	0.48	1.5	1	GRO95/8021		9/28/2012	CJR	1
1,2,4-Trimethylbenzene	< 0.78	ug/l	0.78	2.5	1	GRO95/8021		9/28/2012	CJR	1
1,3,5-Trimethylbenzene	< 0.79	ug/l	0.79	2.5	1	GRO95/8021		9/28/2012	CJR	1
m&p-Xylene	< 0.71	ug/l	0.71	2.3	1	GRO95/8021		9/28/2012	CJR	1
o-Xylene	< 0.74	ug/l	0.74	2.3	1	GRO95/8021		9/28/2012	CJR	1

Project Name SMITH'S UNION 76 **Invoice #** E24307
Project #

Lab Code 524307LL
Sample ID G-8-1
Sample Matrix Soil
Sample Date 9/19/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	97.5	%			1	5021		9/24/2012	MDK	1
Inorganic										
Metals										
Lead, Total	6.72	mg/Kg	0.6	1.92	2	6010B		9/26/2012	CWT	1 49
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	1.6	5.2	1	GRO95/8021		9/27/2012	CJR	1
Benzene	< 25	ug/kg	2.9	9.3	1	GRO95/8021		9/27/2012	CJR	1
Ethylbenzene	< 25	ug/kg	2.6	8.2	1	GRO95/8021		9/27/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		9/27/2012	CJR	1
Naphthalene	< 25	ug/kg	8.4	27	1	GRO95/8021		9/27/2012	CJR	1
Toluene	< 25	ug/kg	3.6	11	1	GRO95/8021		9/27/2012	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	2.7	8.6	1	GRO95/8021		9/27/2012	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	3	9.6	1	GRO95/8021		9/27/2012	CJR	1
m&p-Xylene	< 50	ug/kg	5.2	17	1	GRO95/8021		9/27/2012	CJR	1
o-Xylene	< 25	ug/kg	6.3	20	1	GRO95/8021		9/27/2012	CJR	1

Lab Code 524307MM
Sample ID G-8-2
Sample Matrix Soil
Sample Date 9/19/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	87.7	%			1	5021		9/24/2012	MDK	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	24	mg/kg	1.6	5.2	1	GRO95/8021		9/28/2012	CJR	1
Benzene	212	ug/kg	2.9	9.3	1	GRO95/8021		9/28/2012	CJR	1
Ethylbenzene	530	ug/kg	2.6	8.2	1	GRO95/8021		9/28/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		9/28/2012	CJR	1
Naphthalene	132	ug/kg	8.4	27	1	GRO95/8021		9/28/2012	CJR	1
Toluene	500	ug/kg	3.6	11	1	GRO95/8021		9/28/2012	CJR	1
1,2,4-Trimethylbenzene	2440	ug/kg	2.7	8.6	1	GRO95/8021		9/28/2012	CJR	1
1,3,5-Trimethylbenzene	1390	ug/kg	3	9.6	1	GRO95/8021		9/28/2012	CJR	1
m&p-Xylene	2690	ug/kg	5.2	17	1	GRO95/8021		9/28/2012	CJR	1
o-Xylene	910	ug/kg	6.3	20	1	GRO95/8021		9/28/2012	CJR	1

Lab Code 524307NN
Sample ID G-8-3
Sample Matrix Soil
Sample Date 9/19/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	93.2	%			1	5021		9/24/2012	MDK	1
Organic										

Project Name SMITH'S UNION 76 **Invoice #** E24307
Project #

Lab Code 524307NN
Sample ID G-8-3
Sample Matrix Soil
Sample Date 9/19/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	1.6	5.2	1	GRO95/8021		10/1/2012	CJR	1
Benzene	< 25	ug/kg	2.9	9.3	1	GRO95/8021		10/1/2012	CJR	1
Ethylbenzene	< 25	ug/kg	2.6	8.2	1	GRO95/8021		10/1/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		10/1/2012	CJR	1
Naphthalene	48	ug/kg	8.4	27	1	GRO95/8021		10/1/2012	CJR	1
Toluene	31.1	ug/kg	3.6	11	1	GRO95/8021		10/1/2012	CJR	1
1,2,4-Trimethylbenzene	145	ug/kg	2.7	8.6	1	GRO95/8021		10/1/2012	CJR	1
1,3,5-Trimethylbenzene	62	ug/kg	3	9.6	1	GRO95/8021		10/1/2012	CJR	1
m&p-Xylene	102	ug/kg	5.2	17	1	GRO95/8021		10/1/2012	CJR	1
o-Xylene	49	ug/kg	6.3	20	1	GRO95/8021		10/1/2012	CJR	1

Lab Code 524307OO
Sample ID G-8-5
Sample Matrix Soil
Sample Date 9/19/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	81.3	%			1	5021		9/24/2012	MDK	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	12	mg/kg	1.6	5.2	1	GRO95/8021		9/28/2012	CJR	1
Benzene	123	ug/kg	2.9	9.3	1	GRO95/8021		9/28/2012	CJR	1
Ethylbenzene	< 25	ug/kg	2.6	8.2	1	GRO95/8021		9/28/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		9/28/2012	CJR	1
Naphthalene	< 25	ug/kg	8.4	27	1	GRO95/8021		9/28/2012	CJR	1
Toluene	< 25	ug/kg	3.6	11	1	GRO95/8021		9/28/2012	CJR	1
1,2,4-Trimethylbenzene	36	ug/kg	2.7	8.6	1	GRO95/8021		9/28/2012	CJR	1
1,3,5-Trimethylbenzene	63	ug/kg	3	9.6	1	GRO95/8021		9/28/2012	CJR	1
m&p-Xylene	< 50	ug/kg	5.2	17	1	GRO95/8021		9/28/2012	CJR	1
o-Xylene	< 25	ug/kg	6.3	20	1	GRO95/8021		9/28/2012	CJR	1

Lab Code 524307PP
Sample ID G-8-W
Sample Matrix Water
Sample Date 9/19/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	34	ug/l	0.46	1.5	1	GRO95/8021		9/28/2012	CJR	1
Ethylbenzene	0.52 "J"	ug/l	0.46	1.5	1	GRO95/8021		9/28/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.57	ug/l	0.57	1.8	1	GRO95/8021		9/28/2012	CJR	1
Naphthalene	< 2.3	ug/l	2.3	7.2	1	GRO95/8021		9/28/2012	CJR	1
Toluene	1.82	ug/l	0.48	1.5	1	GRO95/8021		9/28/2012	CJR	1
1,2,4-Trimethylbenzene	< 0.78	ug/l	0.78	2.5	1	GRO95/8021		9/28/2012	CJR	1
1,3,5-Trimethylbenzene	< 0.79	ug/l	0.79	2.5	1	GRO95/8021		9/28/2012	CJR	1
m&p-Xylene	1.81 "J"	ug/l	0.71	2.3	1	GRO95/8021		9/28/2012	CJR	1
o-Xylene	< 0.74	ug/l	0.74	2.3	1	GRO95/8021		9/28/2012	CJR	1

Project Name SMITH'S UNION 76 **Invoice #** E24307
Project #

Lab Code 524307QQ
Sample ID G-9-1
Sample Matrix Soil
Sample Date 9/19/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	96.6	%			1	5021		9/24/2012	MDK	1
Inorganic										
Metals										
Lead, Total	2.55	mg/Kg	0.6	1.92	2	6010B		9/26/2012	CWT	1 49
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	1.6	5.2	1	GRO95/8021		10/1/2012	CJR	1
Benzene	< 25	ug/kg	2.9	9.3	1	GRO95/8021		10/1/2012	CJR	1
Ethylbenzene	< 25	ug/kg	2.6	8.2	1	GRO95/8021		10/1/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		10/1/2012	CJR	1
Naphthalene	< 25	ug/kg	8.4	27	1	GRO95/8021		10/1/2012	CJR	1
Toluene	< 25	ug/kg	3.6	11	1	GRO95/8021		10/1/2012	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	2.7	8.6	1	GRO95/8021		10/1/2012	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	3	9.6	1	GRO95/8021		10/1/2012	CJR	1
m&p-Xylene	< 50	ug/kg	5.2	17	1	GRO95/8021		10/1/2012	CJR	1
o-Xylene	< 25	ug/kg	6.3	20	1	GRO95/8021		10/1/2012	CJR	1

Lab Code 524307RR
Sample ID G-9-2
Sample Matrix Soil
Sample Date 9/19/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	92.5	%			1	5021		9/24/2012	MDK	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	1.6	5.2	1	GRO95/8021		10/1/2012	CJR	1
Benzene	66	ug/kg	2.9	9.3	1	GRO95/8021		10/1/2012	CJR	1
Ethylbenzene	105	ug/kg	2.6	8.2	1	GRO95/8021		10/1/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		10/1/2012	CJR	1
Naphthalene	< 25	ug/kg	8.4	27	1	GRO95/8021		10/1/2012	CJR	1
Toluene	88	ug/kg	3.6	11	1	GRO95/8021		10/1/2012	CJR	1
1,2,4-Trimethylbenzene	196	ug/kg	2.7	8.6	1	GRO95/8021		10/1/2012	CJR	1
1,3,5-Trimethylbenzene	72	ug/kg	3	9.6	1	GRO95/8021		10/1/2012	CJR	1
m&p-Xylene	350	ug/kg	5.2	17	1	GRO95/8021		10/1/2012	CJR	1
o-Xylene	167	ug/kg	6.3	20	1	GRO95/8021		10/1/2012	CJR	1

Lab Code 524307SS
Sample ID G-9-3
Sample Matrix Soil
Sample Date 9/19/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	90.8	%			1	5021		9/24/2012	MDK	1
Organic										

Project Name SMITH'S UNION 76 **Invoice #** E24307
Project #

Lab Code 524307SS
Sample ID G-9-3
Sample Matrix Soil
Sample Date 9/19/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
GRO/PVOC + Naphthalene										
Gasoline Range Organics	33	mg/kg	1.6	5.2	1	GRO95/8021		10/1/2012	CJR	1
Benzene	226	ug/kg	2.9	9.3	1	GRO95/8021		10/1/2012	CJR	1
Ethylbenzene	1900	ug/kg	2.6	8.2	1	GRO95/8021		10/1/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		10/1/2012	CJR	1
Naphthalene	267	ug/kg	8.4	27	1	GRO95/8021		10/1/2012	CJR	1
Toluene	640	ug/kg	3.6	11	1	GRO95/8021		10/1/2012	CJR	1
1,2,4-Trimethylbenzene	3800	ug/kg	2.7	8.6	1	GRO95/8021		10/1/2012	CJR	1
1,3,5-Trimethylbenzene	1220	ug/kg	3	9.6	1	GRO95/8021		10/1/2012	CJR	1
m&p-Xylene	6900	ug/kg	5.2	17	1	GRO95/8021		10/1/2012	CJR	1
o-Xylene	2100	ug/kg	6.3	20	1	GRO95/8021		10/1/2012	CJR	1

Lab Code 524307TT
Sample ID G-9-4
Sample Matrix Soil
Sample Date 9/19/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	87.1	%			1	5021		9/24/2012	MDK	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	1480	mg/kg	16	52	10	GRO95/8021		10/2/2012	CJR	1
Benzene	2770	ug/kg	29	93	10	GRO95/8021		10/2/2012	CJR	1
Ethylbenzene	31200	ug/kg	26	82	10	GRO95/8021		10/2/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 250	ug/kg	81	260	10	GRO95/8021		10/2/2012	CJR	1
Naphthalene	26000	ug/kg	84	270	10	GRO95/8021		10/2/2012	CJR	1
Toluene	3500	ug/kg	36	110	10	GRO95/8021		10/2/2012	CJR	1
1,2,4-Trimethylbenzene	137000	ug/kg	27	86	10	GRO95/8021		10/2/2012	CJR	1
1,3,5-Trimethylbenzene	52000	ug/kg	30	96	10	GRO95/8021		10/2/2012	CJR	1
m&p-Xylene	124000	ug/kg	52	170	10	GRO95/8021		10/2/2012	CJR	1
o-Xylene	38000	ug/kg	63	200	10	GRO95/8021		10/2/2012	CJR	1

Lab Code 524307UU
Sample ID G-9-W
Sample Matrix Water
Sample Date 9/19/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	39	ug/l	4.6	15	10	GRO95/8021		9/27/2012	CJR	1
Ethylbenzene	1150	ug/l	4.6	15	10	GRO95/8021		9/27/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 5.7	ug/l	5.7	18	10	GRO95/8021		9/27/2012	CJR	1
Naphthalene	630	ug/l	23	72	10	GRO95/8021		9/27/2012	CJR	1
Toluene	91	ug/l	4.8	15	10	GRO95/8021		9/27/2012	CJR	1
1,2,4-Trimethylbenzene	2280	ug/l	7.8	25	10	GRO95/8021		9/27/2012	CJR	1
1,3,5-Trimethylbenzene	720	ug/l	7.9	25	10	GRO95/8021		9/27/2012	CJR	1
m&p-Xylene	4300	ug/l	7.1	23	10	GRO95/8021		9/27/2012	CJR	1
o-Xylene	1410	ug/l	7.4	23	10	GRO95/8021		9/27/2012	CJR	1

Project Name SMITH'S UNION 76 **Invoice #** E24307
Project #

Lab Code 524307VV
Sample ID G-10-1
Sample Matrix Soil
Sample Date 9/19/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	97.4	%			1	5021		9/24/2012	MDK	1
Inorganic										
Metals										
Lead, Total	22.6	mg/Kg	0.6	1.92	2	6010B		9/26/2012	CWT	149
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	1.6	5.2	1	GRO95/8021		10/1/2012	CJR	1
Benzene	< 25	ug/kg	2.9	9.3	1	GRO95/8021		10/1/2012	CJR	1
Ethylbenzene	< 25	ug/kg	2.6	8.2	1	GRO95/8021		10/1/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		10/1/2012	CJR	1
Naphthalene	< 25	ug/kg	8.4	27	1	GRO95/8021		10/1/2012	CJR	1
Toluene	< 25	ug/kg	3.6	11	1	GRO95/8021		10/1/2012	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	2.7	8.6	1	GRO95/8021		10/1/2012	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	3	9.6	1	GRO95/8021		10/1/2012	CJR	1
m&p-Xylene	< 50	ug/kg	5.2	17	1	GRO95/8021		10/1/2012	CJR	1
o-Xylene	< 25	ug/kg	6.3	20	1	GRO95/8021		10/1/2012	CJR	1

Lab Code 524307WW
Sample ID G-10-2
Sample Matrix Soil
Sample Date 9/19/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	93.5	%			1	5021		9/24/2012	MDK	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	1.6	5.2	1	GRO95/8021		10/1/2012	CJR	1
Benzene	< 25	ug/kg	2.9	9.3	1	GRO95/8021		10/1/2012	CJR	1
Ethylbenzene	< 25	ug/kg	2.6	8.2	1	GRO95/8021		10/1/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		10/1/2012	CJR	1
Naphthalene	< 25	ug/kg	8.4	27	1	GRO95/8021		10/1/2012	CJR	1
Toluene	< 25	ug/kg	3.6	11	1	GRO95/8021		10/1/2012	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	2.7	8.6	1	GRO95/8021		10/1/2012	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	3	9.6	1	GRO95/8021		10/1/2012	CJR	1
m&p-Xylene	< 50	ug/kg	5.2	17	1	GRO95/8021		10/1/2012	CJR	1
o-Xylene	< 25	ug/kg	6.3	20	1	GRO95/8021		10/1/2012	CJR	1

Lab Code 524307XX
Sample ID G-10-3
Sample Matrix Soil
Sample Date 9/19/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	94.6	%			1	5021		9/24/2012	MDK	1
Organic										

Project Name SMITH'S UNION 76 **Invoice #** E24307
Project #

Lab Code 524307XX
Sample ID G-10-3
Sample Matrix Soil
Sample Date 9/19/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	1.6	5.2	1	GRO95/8021		10/1/2012	CJR	1
Benzene	< 25	ug/kg	2.9	9.3	1	GRO95/8021		10/1/2012	CJR	1
Ethylbenzene	< 25	ug/kg	2.6	8.2	1	GRO95/8021		10/1/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		10/1/2012	CJR	1
Naphthalene	< 25	ug/kg	8.4	27	1	GRO95/8021		10/1/2012	CJR	1
Toluene	< 25	ug/kg	3.6	11	1	GRO95/8021		10/1/2012	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	2.7	8.6	1	GRO95/8021		10/1/2012	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	3	9.6	1	GRO95/8021		10/1/2012	CJR	1
m&p-Xylene	< 50	ug/kg	5.2	17	1	GRO95/8021		10/1/2012	CJR	1
o-Xylene	< 25	ug/kg	6.3	20	1	GRO95/8021		10/1/2012	CJR	1

Lab Code 524307YY
Sample ID G-10-4
Sample Matrix Soil
Sample Date 9/19/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	83.7	%			1	5021		9/24/2012	MDK	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	690	mg/kg	16	52	10	GRO95/8021		10/2/2012	CJR	1
Benzene	40000	ug/kg	29	93	10	GRO95/8021		10/2/2012	CJR	1
Ethylbenzene	1120	ug/kg	26	82	10	GRO95/8021		10/2/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 250	ug/kg	81	260	10	GRO95/8021		10/2/2012	CJR	1
Naphthalene	2930	ug/kg	84	270	10	GRO95/8021		10/2/2012	CJR	1
Toluene	640	ug/kg	36	110	10	GRO95/8021		10/2/2012	CJR	1
1,2,4-Trimethylbenzene	5700	ug/kg	27	86	10	GRO95/8021		10/2/2012	CJR	1
1,3,5-Trimethylbenzene	2670	ug/kg	30	96	10	GRO95/8021		10/2/2012	CJR	1
m&p-Xylene	3800	ug/kg	52	170	10	GRO95/8021		10/2/2012	CJR	1
o-Xylene	2150	ug/kg	63	200	10	GRO95/8021		10/2/2012	CJR	1

Lab Code 524307ZZ
Sample ID G-10-W
Sample Matrix Water
Sample Date 9/19/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	4.1	ug/l	0.46	1.5	1	GRO95/8021		9/28/2012	CJR	1
Ethylbenzene	4.5	ug/l	0.46	1.5	1	GRO95/8021		9/28/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.57	ug/l	0.57	1.8	1	GRO95/8021		9/28/2012	CJR	1
Naphthalene	3.01 "J"	ug/l	2.3	7.2	1	GRO95/8021		9/28/2012	CJR	1
Toluene	0.52 "J"	ug/l	0.48	1.5	1	GRO95/8021		9/28/2012	CJR	1
1,2,4-Trimethylbenzene	2.53	ug/l	0.78	2.5	1	GRO95/8021		9/28/2012	CJR	1
1,3,5-Trimethylbenzene	< 0.79	ug/l	0.79	2.5	1	GRO95/8021		9/28/2012	CJR	1
m&p-Xylene	5.7	ug/l	0.71	2.3	1	GRO95/8021		9/28/2012	CJR	1
o-Xylene	3.2	ug/l	0.74	2.3	1	GRO95/8021		9/28/2012	CJR	1

Project Name SMITH'S UNION 76 **Invoice #** E24307
Project #

Lab Code 54307AAA
Sample ID MW-6-5
Sample Matrix Soil
Sample Date 9/19/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	85.8	%			1	5021		9/24/2012	MDK	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	1690	mg/kg	16	52	10	GRO95/8021		10/2/2012	CJR	1
Benzene	6700	ug/kg	29	93	10	GRO95/8021		10/2/2012	CJR	1
Ethylbenzene	52000	ug/kg	26	82	10	GRO95/8021		10/2/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 250	ug/kg	81	260	10	GRO95/8021		10/2/2012	CJR	1
Naphthalene	9800	ug/kg	84	270	10	GRO95/8021		10/2/2012	CJR	1
Toluene	89000	ug/kg	36	110	10	GRO95/8021		10/2/2012	CJR	1
1,2,4-Trimethylbenzene	86000	ug/kg	27	86	10	GRO95/8021		10/2/2012	CJR	1
1,3,5-Trimethylbenzene	35000	ug/kg	30	96	10	GRO95/8021		10/2/2012	CJR	1
m&p-Xylene	180000	ug/kg	52	170	10	GRO95/8021		10/2/2012	CJR	1
o-Xylene	65000	ug/kg	63	200	10	GRO95/8021		10/2/2012	CJR	1

Lab Code 54307BBB
Sample ID MW-5-5
Sample Matrix Soil
Sample Date 9/19/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	76.6	%			1	5021		9/24/2012	MDK	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	253	mg/kg	1.6	5.2	1	GRO95/8021		10/2/2012	CJR	1
Benzene	520	ug/kg	2.9	9.3	1	GRO95/8021		10/2/2012	CJR	1
Ethylbenzene	600	ug/kg	2.6	8.2	1	GRO95/8021		10/2/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		10/2/2012	CJR	1
Naphthalene	1030	ug/kg	8.4	27	1	GRO95/8021		10/2/2012	CJR	1
Toluene	690	ug/kg	3.6	11	1	GRO95/8021		10/2/2012	CJR	1
1,2,4-Trimethylbenzene	12400	ug/kg	2.7	8.6	1	GRO95/8021		10/2/2012	CJR	1
1,3,5-Trimethylbenzene	6000	ug/kg	3	9.6	1	GRO95/8021		10/2/2012	CJR	1
m&p-Xylene	2030	ug/kg	5.2	17	1	GRO95/8021		10/2/2012	CJR	1
o-Xylene	1130	ug/kg	6.3	20	1	GRO95/8021		10/2/2012	CJR	1

Project Name SMITH'S UNION 76 **Invoice #** E24307
Project #

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

Code	*Comment*
1	Laboratory QC within limits.
4	The continuing calibration standard not within established limits.
13	Sample does not meet method specific weight requirements.
49	Sample diluted to compensate for matrix interference.

CWT denotes sub contract lab - Certification #445126660

ESC denotes sub contract lab - Certification #998093910

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

Authorized Signature Michael J. Ricker

CHAIN OF CUSTODY RECORD

Synergy Environmental Lab, Inc.

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

Chain # No 1599

Page 1 of 6

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. Powell

Project (Name / Location): Smith's Union 76

Reports To: Adam Bachand	Invoice To: Adam Bachand c/o Jason Powell
Company	Company METCO
Address 1406 Belknap St	Address 709 Gillette St, #3
City State Zip Superior, WI 54880	City State Zip La Crosse, WI 54603
Phone (715) 394-6637	Phone (608) 781-8879
FAX	FAX 8893

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)	IRON	LEAD	NITRATE / NITRITE	PAH (EPA 8270)	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	VOC DW (EPA 524.2)	VOC (EPA 8260)	8-RCRA METALS	PID/ FID
502430-7A	Meth Blank	9/8/12					1		MEOH		X						X					
B	Trip Blank						1		HCl								X					
C	Potable Well		1:00		X	N	3	GW DW	HCl										X			
D	G-1-1		1:15				3	S	MEOH/None		X		X				X					
E	G-1-2		1:20				2	S			X						X					
F	G-1-3		1:25				2	S			X						X					
G	G-1-4		1:30				2	S			X						X					
H	G-1-W		1:50			N	3	GW	HCl								X					
I	G-2-1		2:05				3	S	MEOH/None		X		X				X					
J	G-2-2		2:10				2	S	"		X						X					

Analysis Requested | 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.

Use Rates, Agent Status

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

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
E. Powell	10:00AM	9/21/12			

Received in Laboratory By: [signature] Time: 10:00 Date: 9/22/12

CHAIN OF CUSTODY RECORD

Synergy Environmental Lab, Inc.

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

Chain # No 1600
Page 2 of 6

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 Dane
Project (Name / Location):	Smith's Union 76
Reports To:	See Page 1
Company	
Address	
City State Zip	
Phone	
FAX	
Invoice To:	→
Company	
Address	
City State Zip	
Phone	
FAX	

Lab I.D.	Sample I.D.	Collection Date	Collection Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	IRON	LEAD	NITRATE / NITRITE	PAH (EPA 8270)	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	VOC DW (EPA 524.2)	VOC (EPA 8260)	8 RCRA METALS	PID/ FID
502307-K	G-2-3	9/13/12	2:15		X		2	S	MEOH		X						X					
L	G-2-4		2:20				2	S	MEOH		X						X					
M	G-2-W		2:25			N	3	GW	HCl								X					
N	G-3-1		2:30				3	S	MEOH/None		X		X				X					
O	G-3-2		2:35				2				X						X					
P	G-3-3		2:40				2				X						X					
Q	G-3-4		2:45				3		/None		X		X							X		
R	G-4-1		2:55				3		/None		X		X				X					
S	G-4-2		3:00				2				X						X					
T	G-4-3		3:05				2				X						X					

Analysis Requested | Other Analysis

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

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

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

Received in Laboratory By: [signature] Time: 10:00 Date: 9/14/12

CHAIN OF CUSTODY RECORD

Synergy Environmental Lab, Inc.

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

Chain # No 1601
Page 3 of 6

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 Dec
Project (Name / Location):	Smith's Union 76
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	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	IRON	LEAD	NITRATE / NITRITE	PAH (EPA 8270)	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	VOC DW (EPA 524.2)	VOC (EPA 8260)	8-RCRA METALS	PID/FID
S02130TM	G-4-4	9/12/12	3:10		X		2	S	MEOH		X						X					
V	G-4-W		3:15			N	3	GW	HCl								X					
W	G-5-1		3:25				3	S	MEOH/MeNc		X		X				X					
X	G-5-2		3:30				2				X						X					
Y	G-5-3		3:35				2				X						X					
Z	G-5-4		3:40				2	↓	↓		X						X					
S24307AH	G-5-W		3:50			N	3	GW	HCl								X					
BB	G-6-1		3:55				3	S	MEOH/MeNc		X		X				X					
CC	G-6-2		4:00				2				X						X					
DD	G-6-3	↓	4:05		↓		2	↓	↓		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: Driven
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

Received in Laboratory By: [signature] Time: 10:00 Date: 9/22/12

CHAIN OF CUSTODY RECORD

Synergy Environmental Lab, Inc.

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

Chain # No 1602
Page 4 of 6

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): Smith's Union 76

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 95)	IRON	LEAD	NITRATE / NITRITE	PAH (EPA 8270)	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	VOC DW (EPA 524.2)	VOC (EPA 8260)	8-RCRA METALS	PID/ FID
524307 EE	G-6-4	9/18/12	4:10		X		2	S	MeOH		X						X					
FF	G-6-W		4:15			N	3	GW	HCl								X					
GG	G-7-1		4:20				3	S	MeOH/Na		X		X				X					
HH	G-7-2		4:25				2	S			X						X					
II	G-7-3		4:30				2	S			X						X					
JJ	G-7-4		4:35				2	S			X						X					
KK	G-7-W		4:40			N	3	GW	HCl								X					
LL	G-8-1	9/19/12	8:40				3	S	MeOH/Na		X		X				X					
MM	G-8-2		8:45				2	S			X						X					
NN	G-8-3		8:50				2	S			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: Delivered
Temp. of Temp. Blank: ___ °C On Ice: Y
Cooler seal intact upon receipt: ___ Yes ___ No

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

Received in Laboratory By: [signature] Time: 10:00 Date: 9/22/12

CHAIN OF CUSTODY RECORD

Synergy Environmental Lab, Inc.

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Chain # No 1603
Page 5 of 6

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 Dow
Project (Name / Location): Smiths Union 76

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	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	IRON	LEAD	NITRATE / NITRITE	PAH (EPA 8270)	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	VOC DW (EPA 524.2)	VOC (EPA 8260)	8-RCRA METALS	PID/ FID
52430100	G-8-5	9/6/11	8:55		X		2	S	MeOH		X						X					
PP	G-8-W		9:00			N	3	GW	HCl								X					
QQ	G-9-1		9:05				3	S	MeOH/None		X		X				X					
RR	G-9-2		9:10				2	S	↓		X						X					
SS	G-9-3		9:15				2	S			X						X					
TT	G-9-4		9:20				2	S			X						X					
UU	G-9-W		9:35			N	3	GW	HCl								X					
VV	G-10-1		9:40				3	S	MeOH/None		X		X				X					
WW	G-10-2		9:45				2	S	↓		X						X					
XX	G-10-3	↓	9:50		↓		2	S	↓		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: Driven
Temp. of Temp. Blank ____ °C On Ice: Y
Cooler seal intact upon receipt: ____ Yes ____ No

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

Received in Laboratory By: [signature] Time: 10:00 Date: 9/12/11

CHAIN OF CUSTODY RECORD

Synergy Environmental Lab, Inc.

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Chain # No 1,604
Page 6 of 6

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 Dale

Project (Name / Location): Smiths Union 76

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	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	IRON	LEAD	NITRATE / NITRITE	PAH (EPA 8270)	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	VOC DW (EPA 524.2)	VOC (EPA 8260)	8-RCRA METALS	PID/FID
21	G-10-4	9/19/12	9:55		X		2	S	MEOH		X						X					
22	G-10-W	↓	10:05		↓	N	3	GW	HCl								X					
BAA	MW-6-5		10:50				2	S	MEOH		X						X					
BBB	MW-5-5		1:20				2	S	MEOH		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: Driven
Temp. of Temp. Blank ___ °C On Ice: Y
Cooler seal intact upon receipt: Y Yes ___ No

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

Received in Laboratory By: [signature] Time: 10:00 Date: 9/22/12

Synergy Environmental Lab,

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

ADAM BACHAND
ADAM BACHAND
1406 BELKNAP STREET
SUPERIOR, WI 54880

Report Date *15-Oct-12*

Project Name SMITH'S UNION 76 **Invoice #** E24355
Project #

Lab Code 5024355A
Sample ID MW-3
Sample Matrix Water
Sample Date 10/2/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Iron, Dissolved	< 60	ug/l	60	210	1	200.7		10/10/2012	CWT	1
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		10/5/2012	CWT	1
Manganese, Dissolved	23.2	ug/L	4.8	15.4	1	200.7		10/10/2012	CWT	1
Organic										
VOC's										
Benzene	< 0.5	ug/l	0.5	1.6	1	8260B		10/11/2012	CJR	1
Bromobenzene	< 0.74	ug/l	0.74	2.4	1	8260B		10/11/2012	CJR	1
Bromodichloromethane	< 0.68	ug/l	0.68	2.2	1	8260B		10/11/2012	CJR	1
Bromoform	< 0.43	ug/l	0.43	1.4	1	8260B		10/11/2012	CJR	1
tert-Butylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		10/11/2012	CJR	1
sec-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		10/11/2012	CJR	1
n-Butylbenzene	< 0.9	ug/l	0.9	2.9	1	8260B		10/11/2012	CJR	1
Carbon Tetrachloride	< 0.47	ug/l	0.47	1.5	1	8260B		10/11/2012	CJR	1
Chlorobenzene	< 0.51	ug/l	0.51	1.6	1	8260B		10/11/2012	CJR	1
Chloroethane	< 1.4	ug/l	1.4	4.5	1	8260B		10/11/2012	CJR	1
Chloroform	< 0.49	ug/l	0.49	1.5	1	8260B		10/11/2012	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6.1	1	8260B		10/11/2012	CJR	1
2-Chlorotoluene	< 0.7	ug/l	0.7	2.2	1	8260B		10/11/2012	CJR	1
4-Chlorotoluene	< 0.44	ug/l	0.44	1.4	1	8260B		10/11/2012	CJR	1
1,2-Dibromo-3-chloropropane	< 2.8	ug/l	2.8	8.9	1	8260B		10/11/2012	CJR	1
Dibromochloromethane	< 0.55	ug/l	0.55	1.8	1	8260B		10/11/2012	CJR	1
1,4-Dichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		10/11/2012	CJR	1
1,3-Dichlorobenzene	< 0.87	ug/l	0.87	2.8	1	8260B		10/11/2012	CJR	1
1,2-Dichlorobenzene	< 0.76	ug/l	0.76	2.4	1	8260B		10/11/2012	CJR	1
Dichlorodifluoromethane	< 1.8	ug/l	1.8	5.9	1	8260B		10/11/2012	CJR	1
1,2-Dichloroethane	< 0.5	ug/l	0.5	1.6	1	8260B		10/11/2012	CJR	1
1,1-Dichloroethane	< 0.98	ug/l	0.98	3.1	1	8260B		10/11/2012	CJR	1
1,1-Dichloroethene	< 0.6	ug/l	0.6	1.9	1	8260B		10/11/2012	CJR	1

Project Name SMITH'S UNION 76 **Invoice #** E24355
Project #

Lab Code 5024355A
Sample ID MW-3
Sample Matrix Water
Sample Date 10/2/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
cis-1,2-Dichloroethene	< 0.74	ug/l	0.74	2.4	1	8260B		10/11/2012	CJR	1
trans-1,2-Dichloroethene	< 0.79	ug/l	0.79	2.5	1	8260B		10/11/2012	CJR	1
1,2-Dichloropropane	< 0.4	ug/l	0.4	1.3	1	8260B		10/11/2012	CJR	1
2,2-Dichloropropane	< 1.9	ug/l	1.9	5.9	1	8260B		10/11/2012	CJR	1
1,3-Dichloropropane	< 0.71	ug/l	0.71	2.3	1	8260B		10/11/2012	CJR	1
Di-isopropyl ether	< 0.69	ug/l	0.69	2.2	1	8260B		10/11/2012	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		10/11/2012	CJR	1
Ethylbenzene	< 0.78	ug/l	0.78	2.5	1	8260B		10/11/2012	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	6.8	1	8260B		10/11/2012	CJR	1
Isopropylbenzene	< 0.92	ug/l	0.92	2.9	1	8260B		10/11/2012	CJR	1
p-Isopropyltoluene	< 0.92	ug/l	0.92	2.9	1	8260B		10/11/2012	CJR	1
Methylene chloride	< 1.1	ug/l	1.1	3.4	1	8260B		10/11/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.8	ug/l	0.8	2.5	1	8260B		10/11/2012	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.8	1	8260B		10/11/2012	CJR	1
n-Propylbenzene	< 0.59	ug/l	0.59	1.9	1	8260B		10/11/2012	CJR	1
1,1,2,2-Tetrachloroethane	< 0.53	ug/l	0.53	1.7	1	8260B		10/11/2012	CJR	1
1,1,1,2-Tetrachloroethane	< 1	ug/l	1	3.2	1	8260B		10/11/2012	CJR	1
Tetrachloroethene	< 0.44	ug/l	0.44	1.4	1	8260B		10/11/2012	CJR	8
Toluene	< 0.53	ug/l	0.53	1.7	1	8260B		10/11/2012	CJR	1
1,2,4-Trichlorobenzene	< 1.5	ug/l	1.5	4.6	1	8260B		10/11/2012	CJR	1
1,2,3-Trichlorobenzene	< 1.3	ug/l	1.3	4.2	1	8260B		10/11/2012	CJR	1
1,1,1-Trichloroethane	< 0.85	ug/l	0.85	2.7	1	8260B		10/11/2012	CJR	1
1,1,2-Trichloroethane	< 0.47	ug/l	0.47	1.5	1	8260B		10/11/2012	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		10/11/2012	CJR	1
Trichlorofluoromethane	< 1.7	ug/l	1.7	5.3	1	8260B		10/11/2012	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.5	1	8260B		10/11/2012	CJR	1
1,3,5-Trimethylbenzene	< 0.74	ug/l	0.74	2.4	1	8260B		10/11/2012	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.56	1	8260B		10/11/2012	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.5	1	8260B		10/11/2012	CJR	1
o-Xylene	< 0.8	ug/l	0.8	2.6	1	8260B		10/11/2012	CJR	1
SUR - 1,2-Dichloroethane-d4	105	REC %			1	8260B		10/11/2012	CJR	1
SUR - 4-Bromofluorobenzene	100	REC %			1	8260B		10/11/2012	CJR	1
SUR - Dibromofluoromethane	106	REC %			1	8260B		10/11/2012	CJR	1
SUR - Toluene-d8	106	REC %			1	8260B		10/11/2012	CJR	1
Wet Chemistry										
General										
Nitrite Plus Nitrate, Dissolved	0.73	mg/l	0.1	0.31	1	4500B/F		10/4/2012	CWT	1
Sulfate, Dissolved	12.0	mg/l	3.4	10.6	2	300.0		10/8/2012	CWT	1

Lab Code 5024355B
Sample ID MW-4
Sample Matrix Water
Sample Date 10/2/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Iron, Dissolved	80 "J"	ug/l	60	210	1	200.7		10/10/2012	CWT	1
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		10/5/2012	CWT	1
Manganese, Dissolved	78.7	ug/L	4.8	15.4	1	200.7		10/10/2012	CWT	1
Organic										
VOC's										

Project Name SMITH'S UNION 76 **Invoice #** E24355
Project #

Lab Code 5024355B
Sample ID MW-4
Sample Matrix Water
Sample Date 10/2/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Benzene	< 0.5	ug/l	0.5	1.6	1	8260B		10/11/2012	CJR	1
Bromobenzene	< 0.74	ug/l	0.74	2.4	1	8260B		10/11/2012	CJR	1
Bromodichloromethane	< 0.68	ug/l	0.68	2.2	1	8260B		10/11/2012	CJR	1
Bromoform	< 0.43	ug/l	0.43	1.4	1	8260B		10/11/2012	CJR	1
tert-Butylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		10/11/2012	CJR	1
sec-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		10/11/2012	CJR	1
n-Butylbenzene	< 0.9	ug/l	0.9	2.9	1	8260B		10/11/2012	CJR	1
Carbon Tetrachloride	< 0.47	ug/l	0.47	1.5	1	8260B		10/11/2012	CJR	1
Chlorobenzene	< 0.51	ug/l	0.51	1.6	1	8260B		10/11/2012	CJR	1
Chloroethane	< 1.4	ug/l	1.4	4.5	1	8260B		10/11/2012	CJR	1
Chloroform	< 0.49	ug/l	0.49	1.5	1	8260B		10/11/2012	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6.1	1	8260B		10/11/2012	CJR	1
2-Chlorotoluene	< 0.7	ug/l	0.7	2.2	1	8260B		10/11/2012	CJR	1
4-Chlorotoluene	< 0.44	ug/l	0.44	1.4	1	8260B		10/11/2012	CJR	1
1,2-Dibromo-3-chloropropane	< 2.8	ug/l	2.8	8.9	1	8260B		10/11/2012	CJR	1
Dibromochloromethane	< 0.55	ug/l	0.55	1.8	1	8260B		10/11/2012	CJR	1
1,4-Dichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		10/11/2012	CJR	1
1,3-Dichlorobenzene	< 0.87	ug/l	0.87	2.8	1	8260B		10/11/2012	CJR	1
1,2-Dichlorobenzene	< 0.76	ug/l	0.76	2.4	1	8260B		10/11/2012	CJR	1
Dichlorodifluoromethane	< 1.8	ug/l	1.8	5.9	1	8260B		10/11/2012	CJR	1
1,2-Dichloroethane	< 0.5	ug/l	0.5	1.6	1	8260B		10/11/2012	CJR	1
1,1-Dichloroethane	< 0.98	ug/l	0.98	3.1	1	8260B		10/11/2012	CJR	1
1,1-Dichloroethene	< 0.6	ug/l	0.6	1.9	1	8260B		10/11/2012	CJR	1
cis-1,2-Dichloroethene	< 0.74	ug/l	0.74	2.4	1	8260B		10/11/2012	CJR	1
trans-1,2-Dichloroethene	< 0.79	ug/l	0.79	2.5	1	8260B		10/11/2012	CJR	1
1,2-Dichloropropane	< 0.4	ug/l	0.4	1.3	1	8260B		10/11/2012	CJR	1
2,2-Dichloropropane	< 1.9	ug/l	1.9	5.9	1	8260B		10/11/2012	CJR	1
1,3-Dichloropropane	< 0.71	ug/l	0.71	2.3	1	8260B		10/11/2012	CJR	1
Di-isopropyl ether	< 0.69	ug/l	0.69	2.2	1	8260B		10/11/2012	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		10/11/2012	CJR	1
Ethylbenzene	< 0.78	ug/l	0.78	2.5	1	8260B		10/11/2012	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	6.8	1	8260B		10/11/2012	CJR	1
Isopropylbenzene	< 0.92	ug/l	0.92	2.9	1	8260B		10/11/2012	CJR	1
p-Isopropyltoluene	< 0.92	ug/l	0.92	2.9	1	8260B		10/11/2012	CJR	1
Methylene chloride	< 1.1	ug/l	1.1	3.4	1	8260B		10/11/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.8	ug/l	0.8	2.5	1	8260B		10/11/2012	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.8	1	8260B		10/11/2012	CJR	1
n-Propylbenzene	< 0.59	ug/l	0.59	1.9	1	8260B		10/11/2012	CJR	1
1,1,2,2-Tetrachloroethane	< 0.53	ug/l	0.53	1.7	1	8260B		10/11/2012	CJR	1
1,1,1,2-Tetrachloroethane	< 1	ug/l	1	3.2	1	8260B		10/11/2012	CJR	1
Tetrachloroethene	< 0.44	ug/l	0.44	1.4	1	8260B		10/11/2012	CJR	8
Toluene	< 0.53	ug/l	0.53	1.7	1	8260B		10/11/2012	CJR	1
1,2,4-Trichlorobenzene	< 1.5	ug/l	1.5	4.6	1	8260B		10/11/2012	CJR	1
1,2,3-Trichlorobenzene	< 1.3	ug/l	1.3	4.2	1	8260B		10/11/2012	CJR	1
1,1,1-Trichloroethane	< 0.85	ug/l	0.85	2.7	1	8260B		10/11/2012	CJR	1
1,1,2-Trichloroethane	< 0.47	ug/l	0.47	1.5	1	8260B		10/11/2012	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		10/11/2012	CJR	1
Trichlorofluoromethane	< 1.7	ug/l	1.7	5.3	1	8260B		10/11/2012	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.5	1	8260B		10/11/2012	CJR	1
1,3,5-Trimethylbenzene	< 0.74	ug/l	0.74	2.4	1	8260B		10/11/2012	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.56	1	8260B		10/11/2012	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.5	1	8260B		10/11/2012	CJR	1

Project Name SMITH'S UNION 76 **Invoice #** E24355
Project #

Lab Code 5024355B
Sample ID MW-4
Sample Matrix Water
Sample Date 10/2/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
o-Xylene	< 0.8	ug/l	0.8	2.6	1	8260B		10/11/2012	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			1	8260B		10/11/2012	CJR	1
SUR - 4-Bromofluorobenzene	97	REC %			1	8260B		10/11/2012	CJR	1
SUR - Dibromofluoromethane	97	REC %			1	8260B		10/11/2012	CJR	1
SUR - Toluene-d8	101	REC %			1	8260B		10/11/2012	CJR	1
Wet Chemistry										
General										
Nitrite Plus Nitrate, Dissolved	0.16 "J"	mg/l	0.1	0.31	1	4500B/F		10/4/2012	CWT	1
Sulfate, Dissolved	6.72 "J"	mg/l	3.4	10.6	2	300.0		10/8/2012	CWT	1

Lab Code 5024355C
Sample ID MW-5
Sample Matrix Water
Sample Date 10/2/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Iron, Dissolved	6660	ug/l	60	210	1	200.7		10/10/2012	CWT	1
Lead, Dissolved	9.8	ug/L	0.7	2.5	1	7421		10/5/2012	CWT	1
Manganese, Dissolved	414	ug/L	4.8	15.4	1	200.7		10/10/2012	CWT	1
Organic										
VOC's										
Benzene	< 5	ug/l	5	16	10	8260B		10/12/2012	CJR	1
Bromobenzene	< 7.4	ug/l	7.4	24	10	8260B		10/12/2012	CJR	1
Bromodichloromethane	< 6.8	ug/l	6.8	22	10	8260B		10/12/2012	CJR	1
Bromoform	< 4.3	ug/l	4.3	14	10	8260B		10/12/2012	CJR	1
tert-Butylbenzene	< 7.1	ug/l	7.1	23	10	8260B		10/12/2012	CJR	1
sec-Butylbenzene	12.4 "J"	ug/l	10	33	10	8260B		10/12/2012	CJR	1
n-Butylbenzene	63	ug/l	9	29	10	8260B		10/12/2012	CJR	1
Carbon Tetrachloride	< 4.7	ug/l	4.7	15	10	8260B		10/12/2012	CJR	1
Chlorobenzene	< 5.1	ug/l	5.1	16	10	8260B		10/12/2012	CJR	1
Chloroethane	< 14	ug/l	14	45	10	8260B		10/12/2012	CJR	1
Chloroform	< 4.9	ug/l	4.9	15	10	8260B		10/12/2012	CJR	1
Chloromethane	< 19	ug/l	19	61	10	8260B		10/12/2012	CJR	1
2-Chlorotoluene	< 7	ug/l	7	22	10	8260B		10/12/2012	CJR	1
4-Chlorotoluene	< 4.4	ug/l	4.4	14	10	8260B		10/12/2012	CJR	1
1,2-Dibromo-3-chloropropane	< 28	ug/l	28	89	10	8260B		10/12/2012	CJR	1
Dibromochloromethane	< 5.5	ug/l	5.5	18	10	8260B		10/12/2012	CJR	1
1,4-Dichlorobenzene	< 9.8	ug/l	9.8	31	10	8260B		10/12/2012	CJR	1
1,3-Dichlorobenzene	< 8.7	ug/l	8.7	28	10	8260B		10/12/2012	CJR	1
1,2-Dichlorobenzene	< 7.6	ug/l	7.6	24	10	8260B		10/12/2012	CJR	1
Dichlorodifluoromethane	< 18	ug/l	18	59	10	8260B		10/12/2012	CJR	1
1,2-Dichloroethane	< 5	ug/l	5	16	10	8260B		10/12/2012	CJR	1
1,1-Dichloroethane	< 9.8	ug/l	9.8	31	10	8260B		10/12/2012	CJR	1
1,1-Dichloroethene	< 6	ug/l	6	19	10	8260B		10/12/2012	CJR	1
cis-1,2-Dichloroethene	< 7.4	ug/l	7.4	24	10	8260B		10/12/2012	CJR	1
trans-1,2-Dichloroethene	< 7.9	ug/l	7.9	25	10	8260B		10/12/2012	CJR	1
1,2-Dichloropropane	< 4	ug/l	4	13	10	8260B		10/12/2012	CJR	1
2,2-Dichloropropane	< 19	ug/l	19	59	10	8260B		10/12/2012	CJR	1
1,3-Dichloropropane	< 7.1	ug/l	7.1	23	10	8260B		10/12/2012	CJR	1
Di-isopropyl ether	< 6.9	ug/l	6.9	22	10	8260B		10/12/2012	CJR	1

Project Name SMITH'S UNION 76 **Invoice #** E24355
Project #

Lab Code 5024355C
Sample ID MW-5
Sample Matrix Water
Sample Date 10/2/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
EDB (1,2-Dibromoethane)	< 6.3	ug/l	6.3	20	10	8260B		10/12/2012	CJR	1
Ethylbenzene	34	ug/l	7.8	25	10	8260B		10/12/2012	CJR	1
Hexachlorobutadiene	< 22	ug/l	22	68	10	8260B		10/12/2012	CJR	1
Isopropylbenzene	19.2 "J"	ug/l	9.2	29	10	8260B		10/12/2012	CJR	1
p-Isopropyltoluene	13 "J"	ug/l	9.2	29	10	8260B		10/12/2012	CJR	1
Methylene chloride	< 11	ug/l	11	34	10	8260B		10/12/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 8	ug/l	8	25	10	8260B		10/12/2012	CJR	1
Naphthalene	24.6 "J"	ug/l	21	68	10	8260B		10/12/2012	CJR	1
n-Propylbenzene	96	ug/l	5.9	19	10	8260B		10/12/2012	CJR	1
1,1,2,2-Tetrachloroethane	< 5.3	ug/l	5.3	17	10	8260B		10/12/2012	CJR	1
1,1,1,2-Tetrachloroethane	< 10	ug/l	10	32	10	8260B		10/12/2012	CJR	1
Tetrachloroethene	< 4.4	ug/l	4.4	14	10	8260B		10/12/2012	CJR	8
Toluene	< 5.3	ug/l	5.3	17	10	8260B		10/12/2012	CJR	1
1,2,4-Trichlorobenzene	< 15	ug/l	15	46	10	8260B		10/12/2012	CJR	1
1,2,3-Trichlorobenzene	< 13	ug/l	13	42	10	8260B		10/12/2012	CJR	1
1,1,1-Trichloroethane	< 8.5	ug/l	8.5	27	10	8260B		10/12/2012	CJR	1
1,1,2-Trichloroethane	< 4.7	ug/l	4.7	15	10	8260B		10/12/2012	CJR	1
Trichloroethene (TCE)	< 4.7	ug/l	4.7	15	10	8260B		10/12/2012	CJR	1
Trichlorofluoromethane	< 17	ug/l	17	53	10	8260B		10/12/2012	CJR	1
1,2,4-Trimethylbenzene	730	ug/l	8	25	10	8260B		10/12/2012	CJR	1
1,3,5-Trimethylbenzene	272	ug/l	7.4	24	10	8260B		10/12/2012	CJR	1
Vinyl Chloride	< 1.8	ug/l	1.8	5.6	10	8260B		10/12/2012	CJR	1
m&p-Xylene	179	ug/l	11	35	10	8260B		10/12/2012	CJR	1
o-Xylene	< 8	ug/l	8	26	10	8260B		10/12/2012	CJR	1
SUR - Dibromofluoromethane	97	REC %			10	8260B		10/12/2012	CJR	1
SUR - Toluene-d8	107	REC %			10	8260B		10/12/2012	CJR	1
SUR - 4-Bromofluorobenzene	100	REC %			10	8260B		10/12/2012	CJR	1
SUR - 1,2-Dichloroethane-d4	104	REC %			10	8260B		10/12/2012	CJR	1
Wet Chemistry										
General										
Nitrite Plus Nitrate, Dissolved	0.38	mg/l	0.1	0.31	1	4500B/F		10/4/2012	CWT	1
Sulfate, Dissolved	7.24 "J"	mg/l	3.4	10.6	2	300.0		10/8/2012	CWT	1

Lab Code 5024355D
Sample ID MW-6
Sample Matrix Water
Sample Date 10/2/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Iron, Dissolved	32500	ug/l	60	210	1	200.7		10/10/2012	CWT	1
Lead, Dissolved	7.0	ug/L	0.7	2.5	1	7421		10/5/2012	CWT	1
Manganese, Dissolved	1760	ug/L	4.8	15.4	1	200.7		10/10/2012	CWT	1
Organic										
VOC's										
Benzene	2420	ug/l	100	320	200	8260B		10/12/2012	CJR	1
Bromobenzene	< 148	ug/l	148	480	200	8260B		10/12/2012	CJR	1
Bromodichloromethane	< 136	ug/l	136	440	200	8260B		10/12/2012	CJR	1
Bromoform	< 86	ug/l	86	280	200	8260B		10/12/2012	CJR	1
tert-Butylbenzene	< 142	ug/l	142	460	200	8260B		10/12/2012	CJR	1
sec-Butylbenzene	< 200	ug/l	200	660	200	8260B		10/12/2012	CJR	1

Project Name SMITH'S UNION 76 **Invoice #** E24355
Project #

Lab Code 5024355D
Sample ID MW-6
Sample Matrix Water
Sample Date 10/2/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
n-Butylbenzene	< 180	ug/l	180	580	200	8260B		10/12/2012	CJR	1
Carbon Tetrachloride	< 94	ug/l	94	300	200	8260B		10/12/2012	CJR	1
Chlorobenzene	< 102	ug/l	102	320	200	8260B		10/12/2012	CJR	1
Chloroethane	< 280	ug/l	280	900	200	8260B		10/12/2012	CJR	1
Chloroform	< 98	ug/l	98	300	200	8260B		10/12/2012	CJR	1
Chloromethane	< 380	ug/l	380	1220	200	8260B		10/12/2012	CJR	1
2-Chlorotoluene	< 140	ug/l	140	440	200	8260B		10/12/2012	CJR	1
4-Chlorotoluene	< 88	ug/l	88	280	200	8260B		10/12/2012	CJR	1
1,2-Dibromo-3-chloropropane	< 560	ug/l	560	1780	200	8260B		10/12/2012	CJR	1
Dibromochloromethane	< 110	ug/l	110	360	200	8260B		10/12/2012	CJR	1
1,4-Dichlorobenzene	< 196	ug/l	196	620	200	8260B		10/12/2012	CJR	1
1,3-Dichlorobenzene	< 174	ug/l	174	560	200	8260B		10/12/2012	CJR	1
1,2-Dichlorobenzene	< 152	ug/l	152	480	200	8260B		10/12/2012	CJR	1
Dichlorodifluoromethane	< 360	ug/l	360	1180	200	8260B		10/12/2012	CJR	1
1,2-Dichloroethane	< 100	ug/l	100	320	200	8260B		10/12/2012	CJR	1
1,1-Dichloroethane	< 196	ug/l	196	620	200	8260B		10/12/2012	CJR	1
1,1-Dichloroethene	< 120	ug/l	120	380	200	8260B		10/12/2012	CJR	1
cis-1,2-Dichloroethene	< 148	ug/l	148	480	200	8260B		10/12/2012	CJR	1
trans-1,2-Dichloroethene	< 158	ug/l	158	500	200	8260B		10/12/2012	CJR	1
1,2-Dichloropropane	< 80	ug/l	80	260	200	8260B		10/12/2012	CJR	1
2,2-Dichloropropane	< 380	ug/l	380	1180	200	8260B		10/12/2012	CJR	1
1,3-Dichloropropane	< 142	ug/l	142	460	200	8260B		10/12/2012	CJR	1
Di-isopropyl ether	< 138	ug/l	138	440	200	8260B		10/12/2012	CJR	1
EDB (1,2-Dibromoethane)	< 126	ug/l	126	400	200	8260B		10/12/2012	CJR	1
Ethylbenzene	4700	ug/l	156	500	200	8260B		10/12/2012	CJR	1
Hexachlorobutadiene	< 440	ug/l	440	1360	200	8260B		10/12/2012	CJR	1
Isopropylbenzene	< 184	ug/l	184	580	200	8260B		10/12/2012	CJR	1
p-Isopropyltoluene	< 184	ug/l	184	580	200	8260B		10/12/2012	CJR	1
Methylene chloride	< 220	ug/l	220	680	200	8260B		10/12/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 160	ug/l	160	500	200	8260B		10/12/2012	CJR	1
Naphthalene	680 "J"	ug/l	420	1360	200	8260B		10/12/2012	CJR	1
n-Propylbenzene	520	ug/l	118	380	200	8260B		10/12/2012	CJR	1
1,1,2,2-Tetrachloroethane	< 106	ug/l	106	340	200	8260B		10/12/2012	CJR	1
1,1,1,2-Tetrachloroethane	< 200	ug/l	200	640	200	8260B		10/12/2012	CJR	1
Tetrachloroethene	< 88	ug/l	88	280	200	8260B		10/12/2012	CJR	8
Toluene	23200	ug/l	106	340	200	8260B		10/12/2012	CJR	1
1,2,4-Trichlorobenzene	< 300	ug/l	300	920	200	8260B		10/12/2012	CJR	1
1,2,3-Trichlorobenzene	< 260	ug/l	260	840	200	8260B		10/12/2012	CJR	1
1,1,1-Trichloroethane	< 170	ug/l	170	540	200	8260B		10/12/2012	CJR	1
1,1,2-Trichloroethane	< 94	ug/l	94	300	200	8260B		10/12/2012	CJR	1
Trichloroethene (TCE)	< 94	ug/l	94	300	200	8260B		10/12/2012	CJR	1
Trichlorofluoromethane	< 340	ug/l	340	1060	200	8260B		10/12/2012	CJR	1
1,2,4-Trimethylbenzene	3300	ug/l	160	500	200	8260B		10/12/2012	CJR	1
1,3,5-Trimethylbenzene	880	ug/l	148	480	200	8260B		10/12/2012	CJR	1
Vinyl Chloride	< 36	ug/l	36	112	200	8260B		10/12/2012	CJR	1
m&p-Xylene	16600	ug/l	220	700	200	8260B		10/12/2012	CJR	1
o-Xylene	7000	ug/l	160	520	200	8260B		10/12/2012	CJR	1
SUR - 4-Bromofluorobenzene	98	REC %			200	8260B		10/12/2012	CJR	1
SUR - Toluene-d8	102	REC %			200	8260B		10/12/2012	CJR	1
SUR - Dibromofluoromethane	105	REC %			200	8260B		10/12/2012	CJR	1
SUR - 1,2-Dichloroethane-d4	109	REC %			200	8260B		10/12/2012	CJR	1

Wet Chemistry

Project Name SMITH'S UNION 76 **Invoice #** E24355
Project #

Lab Code 5024355D
Sample ID MW-6
Sample Matrix Water
Sample Date 10/2/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
Nitrite Plus Nitrate, Dissolved	0.29 "J"	mg/l	0.1	0.31	1	4500B/F		10/4/2012	CWT	1
Sulfate, Dissolved	4.44 "J"	mg/l	3.4	10.6	2	300.0		10/8/2012	CWT	1

Lab Code 5024355E
Sample ID MW-1
Sample Matrix Water
Sample Date 10/2/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Iron, Dissolved	1970	ug/l	60	210	1	200.7		10/10/2012	CWT	1
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		10/5/2012	CWT	1
Manganese, Dissolved	75.3	ug/L	4.8	15.4	1	200.7		10/10/2012	CWT	1
Organic										
VOC's										
Benzene	< 0.5	ug/l	0.5	1.6	1	8260B		10/11/2012	CJR	1
Bromobenzene	< 0.74	ug/l	0.74	2.4	1	8260B		10/11/2012	CJR	1
Bromodichloromethane	< 0.68	ug/l	0.68	2.2	1	8260B		10/11/2012	CJR	1
Bromoform	< 0.43	ug/l	0.43	1.4	1	8260B		10/11/2012	CJR	1
tert-Butylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		10/11/2012	CJR	1
sec-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		10/11/2012	CJR	1
n-Butylbenzene	4.3	ug/l	0.9	2.9	1	8260B		10/11/2012	CJR	1
Carbon Tetrachloride	< 0.47	ug/l	0.47	1.5	1	8260B		10/11/2012	CJR	1
Chlorobenzene	< 0.51	ug/l	0.51	1.6	1	8260B		10/11/2012	CJR	1
Chloroethane	< 1.4	ug/l	1.4	4.5	1	8260B		10/11/2012	CJR	1
Chloroform	< 0.49	ug/l	0.49	1.5	1	8260B		10/11/2012	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6.1	1	8260B		10/11/2012	CJR	1
2-Chlorotoluene	< 0.7	ug/l	0.7	2.2	1	8260B		10/11/2012	CJR	1
4-Chlorotoluene	< 0.44	ug/l	0.44	1.4	1	8260B		10/11/2012	CJR	1
1,2-Dibromo-3-chloropropane	< 2.8	ug/l	2.8	8.9	1	8260B		10/11/2012	CJR	1
Dibromochloromethane	< 0.55	ug/l	0.55	1.8	1	8260B		10/11/2012	CJR	1
1,4-Dichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		10/11/2012	CJR	1
1,3-Dichlorobenzene	< 0.87	ug/l	0.87	2.8	1	8260B		10/11/2012	CJR	1
1,2-Dichlorobenzene	< 0.76	ug/l	0.76	2.4	1	8260B		10/11/2012	CJR	1
Dichlorodifluoromethane	< 1.8	ug/l	1.8	5.9	1	8260B		10/11/2012	CJR	1
1,2-Dichloroethane	< 0.5	ug/l	0.5	1.6	1	8260B		10/11/2012	CJR	1
1,1-Dichloroethane	< 0.98	ug/l	0.98	3.1	1	8260B		10/11/2012	CJR	1
1,1-Dichloroethene	< 0.6	ug/l	0.6	1.9	1	8260B		10/11/2012	CJR	1
cis-1,2-Dichloroethene	< 0.74	ug/l	0.74	2.4	1	8260B		10/11/2012	CJR	1
trans-1,2-Dichloroethene	< 0.79	ug/l	0.79	2.5	1	8260B		10/11/2012	CJR	1
1,2-Dichloropropane	< 0.4	ug/l	0.4	1.3	1	8260B		10/11/2012	CJR	1
2,2-Dichloropropane	< 1.9	ug/l	1.9	5.9	1	8260B		10/11/2012	CJR	1
1,3-Dichloropropane	< 0.71	ug/l	0.71	2.3	1	8260B		10/11/2012	CJR	1
Di-isopropyl ether	< 0.69	ug/l	0.69	2.2	1	8260B		10/11/2012	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		10/11/2012	CJR	1
Ethylbenzene	< 0.78	ug/l	0.78	2.5	1	8260B		10/11/2012	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	6.8	1	8260B		10/11/2012	CJR	1
Isopropylbenzene	< 0.92	ug/l	0.92	2.9	1	8260B		10/11/2012	CJR	1
p-Isopropyltoluene	< 0.92	ug/l	0.92	2.9	1	8260B		10/11/2012	CJR	1
Methylene chloride	< 1.1	ug/l	1.1	3.4	1	8260B		10/11/2012	CJR	1

Project Name SMITH'S UNION 76 **Invoice #** E24355
Project #

Lab Code 5024355E
Sample ID MW-1
Sample Matrix Water
Sample Date 10/2/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Methyl tert-butyl ether (MTBE)	< 0.8	ug/l	0.8	2.5	1	8260B		10/11/2012	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.8	1	8260B		10/11/2012	CJR	1
n-Propylbenzene	< 0.59	ug/l	0.59	1.9	1	8260B		10/11/2012	CJR	1
1,1,2,2-Tetrachloroethane	< 0.53	ug/l	0.53	1.7	1	8260B		10/11/2012	CJR	1
1,1,1,2-Tetrachloroethane	< 1	ug/l	1	3.2	1	8260B		10/11/2012	CJR	1
Tetrachloroethene	< 0.44	ug/l	0.44	1.4	1	8260B		10/11/2012	CJR	8
Toluene	< 0.53	ug/l	0.53	1.7	1	8260B		10/11/2012	CJR	1
1,2,4-Trichlorobenzene	< 1.5	ug/l	1.5	4.6	1	8260B		10/11/2012	CJR	1
1,2,3-Trichlorobenzene	< 1.3	ug/l	1.3	4.2	1	8260B		10/11/2012	CJR	1
1,1,1-Trichloroethane	< 0.85	ug/l	0.85	2.7	1	8260B		10/11/2012	CJR	1
1,1,2-Trichloroethane	< 0.47	ug/l	0.47	1.5	1	8260B		10/11/2012	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		10/11/2012	CJR	1
Trichlorofluoromethane	< 1.7	ug/l	1.7	5.3	1	8260B		10/11/2012	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.5	1	8260B		10/11/2012	CJR	1
1,3,5-Trimethylbenzene	< 0.74	ug/l	0.74	2.4	1	8260B		10/11/2012	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.56	1	8260B		10/11/2012	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.5	1	8260B		10/11/2012	CJR	1
o-Xylene	< 0.8	ug/l	0.8	2.6	1	8260B		10/11/2012	CJR	1
SUR - 1,2-Dichloroethane-d4	102	REC %			1	8260B		10/11/2012	CJR	1
SUR - 4-Bromofluorobenzene	99	REC %			1	8260B		10/11/2012	CJR	1
SUR - Dibromofluoromethane	104	REC %			1	8260B		10/11/2012	CJR	1
SUR - Toluene-d8	106	REC %			1	8260B		10/11/2012	CJR	1
Wet Chemistry										
General										
Nitrite Plus Nitrate, Dissolved	0.39	mg/l	0.1	0.31	1	4500B/F		10/4/2012	CWT	1
Sulfate, Dissolved	8.12 "J"	mg/l	3.4	10.6	2	300.0		10/8/2012	CWT	1

Lab Code 5024355F
Sample ID MW-2
Sample Matrix Water
Sample Date 10/2/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Iron, Dissolved	2290	ug/l	60	210	1	200.7		10/10/2012	CWT	1
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		10/5/2012	CWT	1
Manganese, Dissolved	106	ug/L	4.8	15.4	1	200.7		10/10/2012	CWT	1
Organic										
VOC's										
Benzene	< 25	ug/l	25	80	50	8260B		10/12/2012	CJR	1
Bromobenzene	< 37	ug/l	37	120	50	8260B		10/12/2012	CJR	1
Bromodichloromethane	< 34	ug/l	34	110	50	8260B		10/12/2012	CJR	1
Bromoform	< 21.5	ug/l	21.5	70	50	8260B		10/12/2012	CJR	1
tert-Butylbenzene	< 35.5	ug/l	35.5	115	50	8260B		10/12/2012	CJR	1
sec-Butylbenzene	< 50	ug/l	50	165	50	8260B		10/12/2012	CJR	1
n-Butylbenzene	59 "J"	ug/l	45	145	50	8260B		10/12/2012	CJR	1
Carbon Tetrachloride	< 23.5	ug/l	23.5	75	50	8260B		10/12/2012	CJR	1
Chlorobenzene	< 25.5	ug/l	25.5	80	50	8260B		10/12/2012	CJR	1
Chloroethane	< 70	ug/l	70	225	50	8260B		10/12/2012	CJR	1
Chloroform	< 24.5	ug/l	24.5	75	50	8260B		10/12/2012	CJR	1
Chloromethane	< 95	ug/l	95	305	50	8260B		10/12/2012	CJR	1

Project Name SMITH'S UNION 76 **Invoice #** E24355
Project #

Lab Code 5024355F
Sample ID MW-2
Sample Matrix Water
Sample Date 10/2/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
2-Chlorotoluene	< 35	ug/l	35	110	50	8260B		10/12/2012	CJR	1
4-Chlorotoluene	< 22	ug/l	22	70	50	8260B		10/12/2012	CJR	1
1,2-Dibromo-3-chloropropane	< 140	ug/l	140	445	50	8260B		10/12/2012	CJR	1
Dibromochloromethane	< 27.5	ug/l	27.5	90	50	8260B		10/12/2012	CJR	1
1,4-Dichlorobenzene	< 49	ug/l	49	155	50	8260B		10/12/2012	CJR	1
1,3-Dichlorobenzene	< 43.5	ug/l	43.5	140	50	8260B		10/12/2012	CJR	1
1,2-Dichlorobenzene	< 38	ug/l	38	120	50	8260B		10/12/2012	CJR	1
Dichlorodifluoromethane	< 90	ug/l	90	295	50	8260B		10/12/2012	CJR	1
1,2-Dichloroethane	< 25	ug/l	25	80	50	8260B		10/12/2012	CJR	1
1,1-Dichloroethane	< 49	ug/l	49	155	50	8260B		10/12/2012	CJR	1
1,1-Dichloroethene	< 30	ug/l	30	95	50	8260B		10/12/2012	CJR	1
cis-1,2-Dichloroethene	< 37	ug/l	37	120	50	8260B		10/12/2012	CJR	1
trans-1,2-Dichloroethene	< 39.5	ug/l	39.5	125	50	8260B		10/12/2012	CJR	1
1,2-Dichloropropane	< 20	ug/l	20	65	50	8260B		10/12/2012	CJR	1
2,2-Dichloropropane	< 95	ug/l	95	295	50	8260B		10/12/2012	CJR	1
1,3-Dichloropropane	< 35.5	ug/l	35.5	115	50	8260B		10/12/2012	CJR	1
Di-isopropyl ether	< 34.5	ug/l	34.5	110	50	8260B		10/12/2012	CJR	1
EDB (1,2-Dibromoethane)	< 31.5	ug/l	31.5	100	50	8260B		10/12/2012	CJR	1
Ethylbenzene	228	ug/l	39	125	50	8260B		10/12/2012	CJR	1
Hexachlorobutadiene	< 110	ug/l	110	340	50	8260B		10/12/2012	CJR	1
Isopropylbenzene	< 46	ug/l	46	145	50	8260B		10/12/2012	CJR	1
p-Isopropyltoluene	< 46	ug/l	46	145	50	8260B		10/12/2012	CJR	1
Methylene chloride	< 55	ug/l	55	170	50	8260B		10/12/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 40	ug/l	40	125	50	8260B		10/12/2012	CJR	1
Naphthalene	< 105	ug/l	105	340	50	8260B		10/12/2012	CJR	1
n-Propylbenzene	260	ug/l	29.5	95	50	8260B		10/12/2012	CJR	1
1,1,2,2-Tetrachloroethane	< 26.5	ug/l	26.5	85	50	8260B		10/12/2012	CJR	1
1,1,1,2-Tetrachloroethane	< 50	ug/l	50	160	50	8260B		10/12/2012	CJR	1
Tetrachloroethene	< 22	ug/l	22	70	50	8260B		10/12/2012	CJR	8
Toluene	40 "J"	ug/l	26.5	85	50	8260B		10/12/2012	CJR	1
1,2,4-Trichlorobenzene	< 75	ug/l	75	230	50	8260B		10/12/2012	CJR	1
1,2,3-Trichlorobenzene	< 65	ug/l	65	210	50	8260B		10/12/2012	CJR	1
1,1,1-Trichloroethane	< 42.5	ug/l	42.5	135	50	8260B		10/12/2012	CJR	1
1,1,2-Trichloroethane	< 23.5	ug/l	23.5	75	50	8260B		10/12/2012	CJR	1
Trichloroethene (TCE)	< 23.5	ug/l	23.5	75	50	8260B		10/12/2012	CJR	1
Trichlorofluoromethane	< 85	ug/l	85	265	50	8260B		10/12/2012	CJR	1
1,2,4-Trimethylbenzene	1100	ug/l	40	125	50	8260B		10/12/2012	CJR	1
1,3,5-Trimethylbenzene	400	ug/l	37	120	50	8260B		10/12/2012	CJR	1
Vinyl Chloride	< 9	ug/l	9	28	50	8260B		10/12/2012	CJR	1
m&p-Xylene	940	ug/l	55	175	50	8260B		10/12/2012	CJR	1
o-Xylene	370	ug/l	40	130	50	8260B		10/12/2012	CJR	1
SUR - 1,2-Dichloroethane-d4	100	REC %			50	8260B		10/12/2012	CJR	1
SUR - 4-Bromofluorobenzene	100	REC %			50	8260B		10/12/2012	CJR	1
SUR - Dibromofluoromethane	100	REC %			50	8260B		10/12/2012	CJR	1
SUR - Toluene-d8	101	REC %			50	8260B		10/12/2012	CJR	1
Wet Chemistry										
General										
Nitrite Plus Nitrate, Dissolved	0.39	mg/l	0.1	0.31	1	4500B/F		10/4/2012	CWT	1
Sulfate, Dissolved	6.37 "J"	mg/l	3.4	10.6	2	300.0		10/8/2012	CWT	1

Project Name SMITH'S UNION 76 **Invoice #** E24355
Project #

Lab Code 5024355G
Sample ID TB
Sample Matrix Water
Sample Date 10/2/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.5	ug/l	0.5	1.6	1	8260B		10/11/2012	CJR	1
Bromobenzene	< 0.74	ug/l	0.74	2.4	1	8260B		10/11/2012	CJR	1
Bromodichloromethane	< 0.68	ug/l	0.68	2.2	1	8260B		10/11/2012	CJR	1
Bromoform	< 0.43	ug/l	0.43	1.4	1	8260B		10/11/2012	CJR	1
tert-Butylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		10/11/2012	CJR	1
sec-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		10/11/2012	CJR	1
n-Butylbenzene	< 0.9	ug/l	0.9	2.9	1	8260B		10/11/2012	CJR	1
Carbon Tetrachloride	< 0.47	ug/l	0.47	1.5	1	8260B		10/11/2012	CJR	1
Chlorobenzene	< 0.51	ug/l	0.51	1.6	1	8260B		10/11/2012	CJR	1
Chloroethane	< 1.4	ug/l	1.4	4.5	1	8260B		10/11/2012	CJR	1
Chloroform	< 0.49	ug/l	0.49	1.5	1	8260B		10/11/2012	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6.1	1	8260B		10/11/2012	CJR	1
2-Chlorotoluene	< 0.7	ug/l	0.7	2.2	1	8260B		10/11/2012	CJR	1
4-Chlorotoluene	< 0.44	ug/l	0.44	1.4	1	8260B		10/11/2012	CJR	1
1,2-Dibromo-3-chloropropane	< 2.8	ug/l	2.8	8.9	1	8260B		10/11/2012	CJR	1
Dibromochloromethane	< 0.55	ug/l	0.55	1.8	1	8260B		10/11/2012	CJR	1
1,4-Dichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		10/11/2012	CJR	1
1,3-Dichlorobenzene	< 0.87	ug/l	0.87	2.8	1	8260B		10/11/2012	CJR	1
1,2-Dichlorobenzene	< 0.76	ug/l	0.76	2.4	1	8260B		10/11/2012	CJR	1
Dichlorodifluoromethane	< 1.8	ug/l	1.8	5.9	1	8260B		10/11/2012	CJR	1
1,2-Dichloroethane	< 0.5	ug/l	0.5	1.6	1	8260B		10/11/2012	CJR	1
1,1-Dichloroethane	< 0.98	ug/l	0.98	3.1	1	8260B		10/11/2012	CJR	1
1,1-Dichloroethene	< 0.6	ug/l	0.6	1.9	1	8260B		10/11/2012	CJR	1
cis-1,2-Dichloroethene	< 0.74	ug/l	0.74	2.4	1	8260B		10/11/2012	CJR	1
trans-1,2-Dichloroethene	< 0.79	ug/l	0.79	2.5	1	8260B		10/11/2012	CJR	1
1,2-Dichloropropane	< 0.4	ug/l	0.4	1.3	1	8260B		10/11/2012	CJR	1
2,2-Dichloropropane	< 1.9	ug/l	1.9	5.9	1	8260B		10/11/2012	CJR	1
1,3-Dichloropropane	< 0.71	ug/l	0.71	2.3	1	8260B		10/11/2012	CJR	1
Di-isopropyl ether	< 0.69	ug/l	0.69	2.2	1	8260B		10/11/2012	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		10/11/2012	CJR	1
Ethylbenzene	< 0.78	ug/l	0.78	2.5	1	8260B		10/11/2012	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	6.8	1	8260B		10/11/2012	CJR	1
Isopropylbenzene	< 0.92	ug/l	0.92	2.9	1	8260B		10/11/2012	CJR	1
p-Isopropyltoluene	< 0.92	ug/l	0.92	2.9	1	8260B		10/11/2012	CJR	1
Methylene chloride	< 1.1	ug/l	1.1	3.4	1	8260B		10/11/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.8	ug/l	0.8	2.5	1	8260B		10/11/2012	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.8	1	8260B		10/11/2012	CJR	1
n-Propylbenzene	< 0.59	ug/l	0.59	1.9	1	8260B		10/11/2012	CJR	1
1,1,2,2-Tetrachloroethane	< 0.53	ug/l	0.53	1.7	1	8260B		10/11/2012	CJR	1
1,1,1,2-Tetrachloroethane	< 1	ug/l	1	3.2	1	8260B		10/11/2012	CJR	1
Tetrachloroethene	< 0.44	ug/l	0.44	1.4	1	8260B		10/11/2012	CJR	8
Toluene	< 0.53	ug/l	0.53	1.7	1	8260B		10/11/2012	CJR	1
1,2,4-Trichlorobenzene	< 1.5	ug/l	1.5	4.6	1	8260B		10/11/2012	CJR	1
1,2,3-Trichlorobenzene	< 1.3	ug/l	1.3	4.2	1	8260B		10/11/2012	CJR	1
1,1,1-Trichloroethane	< 0.85	ug/l	0.85	2.7	1	8260B		10/11/2012	CJR	1
1,1,2-Trichloroethane	< 0.47	ug/l	0.47	1.5	1	8260B		10/11/2012	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		10/11/2012	CJR	1
Trichlorofluoromethane	< 1.7	ug/l	1.7	5.3	1	8260B		10/11/2012	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.5	1	8260B		10/11/2012	CJR	1
1,3,5-Trimethylbenzene	< 0.74	ug/l	0.74	2.4	1	8260B		10/11/2012	CJR	1

Project Name SMITH'S UNION 76 **Invoice #** E24355
Project #

Lab Code 5024355G
Sample ID TB
Sample Matrix Water
Sample Date 10/2/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Vinyl Chloride	< 0.18	ug/l	0.18	0.56	1	8260B		10/11/2012	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.5	1	8260B		10/11/2012	CJR	1
o-Xylene	< 0.8	ug/l	0.8	2.6	1	8260B		10/11/2012	CJR	1
SUR - Toluene-d8	101	REC %			1	8260B		10/11/2012	CJR	1
SUR - 1,2-Dichloroethane-d4	104	REC %			1	8260B		10/11/2012	CJR	1
SUR - 4-Bromofluorobenzene	96	REC %			1	8260B		10/11/2012	CJR	1
SUR - Dibromofluoromethane	106	REC %			1	8260B		10/11/2012	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.
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 J. Ricker

CHAIN OF CUSTODY RECORD

Synergy Environmental Lab, Inc.

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

Chain # No 624

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) Matthew C Mickelson

Project (Name / Location): Smith's Union 76 Station - Solon Springs

Reports To: Adam Bachand	Invoice To: A. Bachand c/o METCO
Company	Company METCO
Address 1406 Belknap St	Address 709 Gillette St Suite 3
City State Zip Superior, WI 54880	City State Zip LaCrosse, WI 54602
Phone (715) 394-6637	Phone (608) 781-8879
FAX	FAX

Lab I.D.	Sample I.D.	Collection Date	Collection Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	IRON	LEAD	NITRATE / NITRITE	PAH (EPA 8270)	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	VOC DW (EPA 524.2)	VOC (EPA 8260)	8-RCRA METALS	Manganese	PID/ FID
502531	MW-3	10/2	10:15		X	Y	6	GW	HCl Nitric Acid			X	X	X				X		X		X	
B	MW-4		10:55																				
C	MW-5		11:20																				
D	MW-6		11:45																				
E	MW-1		12:50																				
F	MW-2		1:10																				
G	TB						1																

Analysis Requested | Other Analysis

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

Note U&C Rates Apply — Agent Status

Lab to send copy of report to METCO/Jason P. (Invoice to METCO)

Sample Integrity - To be completed by receiving lab.
Method of Shipment: UPS Ground
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
Matthew C Mickelson	9:30	10/3			

Received in Laboratory By: [signature] Time: 8:45 Date: 10-4-12

Synergy Environmental Lab,

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

ADAM BACHAND
ADAM BACHAND
1406 BELKNAP STREET
SUPERIOR, WI 54880

Report Date *21-Nov-13*

Project Name SMITH'S UNION 76/SOLON SPRINGS **Invoice #** E26090
Project #

Lab Code 5026090A
Sample ID MW-7
Sample Matrix water
Sample Date 11/7/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Iron, Dissolved	14.3	mg/l	0.06	0.21	1	200.7		11/18/2013	CWT	1
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		11/14/2013	CWT	1
Manganese, Dissolved	1110	ug/L	4.8	15.4	1	200.7		11/18/2013	CWT	1
Organic										
VOC's										
Benzene	116	ug/l	2.4	7.7	10	8260B		11/16/2013	CJR	1
Bromobenzene	< 3.2	ug/l	3.2	10	10	8260B		11/16/2013	CJR	1
Bromodichloromethane	< 3.7	ug/l	3.7	12	10	8260B		11/16/2013	CJR	1
Bromoform	< 3.5	ug/l	3.5	11	10	8260B		11/16/2013	CJR	1
tert-Butylbenzene	< 3.6	ug/l	3.6	12	10	8260B		11/16/2013	CJR	1
sec-Butylbenzene	10.8	ug/l	3.3	10	10	8260B		11/16/2013	CJR	1
n-Butylbenzene	32	ug/l	3.5	11	10	8260B		11/16/2013	CJR	1
Carbon Tetrachloride	< 3.3	ug/l	3.3	11	10	8260B		11/16/2013	CJR	1
Chlorobenzene	< 2.4	ug/l	2.4	7.7	10	8260B		11/16/2013	CJR	1
Chloroethane	< 6.3	ug/l	6.3	20	10	8260B		11/16/2013	CJR	1
Chloroform	< 2.8	ug/l	2.8	8.8	10	8260B		11/16/2013	CJR	1
Chloromethane	< 8.1	ug/l	8.1	26	10	8260B		11/16/2013	CJR	1
2-Chlorotoluene	< 2.1	ug/l	2.1	6.6	10	8260B		11/16/2013	CJR	1
4-Chlorotoluene	< 2.1	ug/l	2.1	6.8	10	8260B		11/16/2013	CJR	1
1,2-Dibromo-3-chloropropane	< 8.8	ug/l	8.8	28	10	8260B		11/16/2013	CJR	1
Dibromochloromethane	< 2.2	ug/l	2.2	7	10	8260B		11/16/2013	CJR	1
1,4-Dichlorobenzene	< 3	ug/l	3	9.6	10	8260B		11/16/2013	CJR	1
1,3-Dichlorobenzene	< 2.8	ug/l	2.8	8.9	10	8260B		11/16/2013	CJR	1
1,2-Dichlorobenzene	< 3.6	ug/l	3.6	12	10	8260B		11/16/2013	CJR	1
Dichlorodifluoromethane	< 4.4	ug/l	4.4	14	10	8260B		11/16/2013	CJR	1
1,2-Dichloroethane	< 4.1	ug/l	4.1	13	10	8260B		11/16/2013	CJR	1
1,1-Dichloroethane	< 3	ug/l	3	9.7	10	8260B		11/16/2013	CJR	1
1,1-Dichloroethene	< 4	ug/l	4	13	10	8260B		11/16/2013	CJR	1
cis-1,2-Dichloroethene	< 3.8	ug/l	3.8	12	10	8260B		11/16/2013	CJR	1
trans-1,2-Dichloroethene	< 3.5	ug/l	3.5	11	10	8260B		11/16/2013	CJR	1
1,2-Dichloropropane	< 3.2	ug/l	3.2	10	10	8260B		11/16/2013	CJR	1
2,2-Dichloropropane	< 3.6	ug/l	3.6	12	10	8260B		11/16/2013	CJR	8

Project Name SMITH'S UNION 76/SOLON SPRINGS **Invoice #** E26090
Project #

Lab Code 5026090A
Sample ID MW-7
Sample Matrix water
Sample Date 11/7/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3-Dichloropropane	< 3.3	ug/l	3.3	10	10	8260B		11/16/2013	CJR	1
Di-isopropyl ether	< 2.3	ug/l	2.3	7.3	10	8260B		11/16/2013	CJR	1
EDB (1,2-Dibromoethane)	< 4.4	ug/l	4.4	14	10	8260B		11/16/2013	CJR	1
Ethylbenzene	430	ug/l	5.5	17	10	8260B		11/16/2013	CJR	1
Hexachlorobutadiene	< 15	ug/l	15	48	10	8260B		11/16/2013	CJR	1
Isopropylbenzene	45	ug/l	3	9.6	10	8260B		11/16/2013	CJR	1
p-Isopropyltoluene	3.9 "J"	ug/l	3.1	9.8	10	8260B		11/16/2013	CJR	1
Methylene chloride	< 5	ug/l	5	16	10	8260B		11/16/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 2.3	ug/l	2.3	7.4	10	8260B		11/16/2013	CJR	1
Naphthalene	134	ug/l	17	55	10	8260B		11/16/2013	CJR	1
n-Propylbenzene	204	ug/l	2.5	8.1	10	8260B		11/16/2013	CJR	1
1,1,2,2-Tetrachloroethane	< 4.5	ug/l	4.5	14	10	8260B		11/16/2013	CJR	1
1,1,1,2-Tetrachloroethane	< 3.3	ug/l	3.3	11	10	8260B		11/16/2013	CJR	1
Tetrachloroethene	< 3.3	ug/l	3.3	11	10	8260B		11/16/2013	CJR	1
Toluene	16.6 "J"	ug/l	6.9	22	10	8260B		11/16/2013	CJR	1
1,2,4-Trichlorobenzene	< 9.8	ug/l	9.8	31	10	8260B		11/16/2013	CJR	1
1,2,3-Trichlorobenzene	< 18	ug/l	18	58	10	8260B		11/16/2013	CJR	1
1,1,1-Trichloroethane	< 3.3	ug/l	3.3	10	10	8260B		11/16/2013	CJR	1
1,1,2-Trichloroethane	< 3.4	ug/l	3.4	11	10	8260B		11/16/2013	CJR	1
Trichloroethene (TCE)	< 3.3	ug/l	3.3	10	10	8260B		11/16/2013	CJR	1
Trichlorofluoromethane	< 7.1	ug/l	7.1	23	10	8260B		11/16/2013	CJR	1
1,2,4-Trimethylbenzene	980	ug/l	22	69	10	8260B		11/16/2013	CJR	1
1,3,5-Trimethylbenzene	287	ug/l	14	45	10	8260B		11/16/2013	CJR	1
Vinyl Chloride	< 1.8	ug/l	1.8	5.7	10	8260B		11/16/2013	CJR	1
m&p-Xylene	1510	ug/l	6.9	22	10	8260B		11/16/2013	CJR	1
o-Xylene	54	ug/l	6.3	20	10	8260B		11/16/2013	CJR	1
SUR - 1,2-Dichloroethane-d4	98	REC %			10	8260B		11/16/2013	CJR	1
SUR - 4-Bromofluorobenzene	98	REC %			10	8260B		11/16/2013	CJR	1
SUR - Dibromofluoromethane	99	REC %			10	8260B		11/16/2013	CJR	1
SUR - Toluene-d8	100	REC %			10	8260B		11/16/2013	CJR	1
Wet Chemistry										
General										
Nitrite Plus Nitrate, Dissolved	0.4	mg/l	0.1	0.31	1	4500B/F		11/13/2013	CWT	1
Sulfate, Dissolved	< 3.4	mg/l	3.4	10.6	2	300.0		11/14/2013	CWT	1

Project Name SMITH'S UNION 76/SOLON SPRINGS **Invoice #** E26090
Project #

Lab Code 5026090B
Sample ID MW-8
Sample Matrix water
Sample Date 11/7/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Iron, Dissolved	0.35	mg/l	0.06	0.21	1	200.7		11/18/2013	CWT	1
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		11/14/2013	CWT	1
Manganese, Dissolved	104	ug/L	4.8	15.4	1	200.7		11/18/2013	CWT	1
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/15/2013	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		11/15/2013	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		11/15/2013	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		11/15/2013	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/15/2013	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		11/15/2013	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		11/15/2013	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		11/15/2013	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/15/2013	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		11/15/2013	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		11/15/2013	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		11/15/2013	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		11/15/2013	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		11/15/2013	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		11/15/2013	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		11/15/2013	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/15/2013	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		11/15/2013	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/15/2013	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		11/15/2013	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		11/15/2013	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		11/15/2013	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		11/15/2013	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		11/15/2013	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		11/15/2013	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		11/15/2013	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		11/15/2013	CJR	8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		11/15/2013	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		11/15/2013	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		11/15/2013	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		11/15/2013	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		11/15/2013	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/15/2013	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		11/15/2013	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		11/15/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		11/15/2013	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		11/15/2013	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		11/15/2013	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/15/2013	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		11/15/2013	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		11/15/2013	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		11/15/2013	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		11/15/2013	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		11/15/2013	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		11/15/2013	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		11/15/2013	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		11/15/2013	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		11/15/2013	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		11/15/2013	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		11/15/2013	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		11/15/2013	CJR	1

Project Name SMITH'S UNION 76/SOLON SPRINGS **Invoice #** E26090
Project #

Lab Code 5026090B
Sample ID MW-8
Sample Matrix water
Sample Date 11/7/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
m&p-Xylene	1.56 "J"	ug/l	0.69	2.2	1	8260B		11/15/2013	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		11/15/2013	CJR	1
SUR - 1,2-Dichloroethane-d4	97	REC %			1	8260B		11/15/2013	CJR	1
SUR - 4-Bromofluorobenzene	104	REC %			1	8260B		11/15/2013	CJR	1
SUR - Dibromofluoromethane	98	REC %			1	8260B		11/15/2013	CJR	1
SUR - Toluene-d8	99	REC %			1	8260B		11/15/2013	CJR	1
Wet Chemistry										
General										
Nitrite Plus Nitrate, Dissolved	< 0.1	mg/l	0.1	0.31	1	4500B/F		11/13/2013	CWT	1
Sulfate, Dissolved	10.6	mg/l	3.4	10.6	2	300.0		11/14/2013	CWT	1

Lab Code 5026090C
Sample ID MW-3
Sample Matrix water
Sample Date 11/7/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Iron, Dissolved	0.06 "J"	mg/l	0.06	0.21	1	200.7		11/18/2013	CWT	1
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		11/14/2013	CWT	1
Manganese, Dissolved	24.5	ug/L	4.8	15.4	1	200.7		11/18/2013	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.27	ug/l	0.27	0.85	1	GRO95/8021		11/11/2013	CJR	1
Ethylbenzene	< 0.82	ug/l	0.82	2.6	1	GRO95/8021		11/11/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.37	ug/l	0.37	1.2	1	GRO95/8021		11/11/2013	CJR	1
Naphthalene	< 1.2	ug/l	1.2	3.8	1	GRO95/8021		11/11/2013	CJR	1
Toluene	< 0.8	ug/l	0.8	2.6	1	GRO95/8021		11/11/2013	CJR	1
1,2,4-Trimethylbenzene	< 0.83	ug/l	0.83	2.6	1	GRO95/8021		11/11/2013	CJR	1
1,3,5-Trimethylbenzene	< 0.86	ug/l	0.86	2.7	1	GRO95/8021		11/11/2013	CJR	1
m&p-Xylene	< 1.6	ug/l	1.6	5.2	1	GRO95/8021		11/11/2013	CJR	1
o-Xylene	< 0.81	ug/l	0.81	2.6	1	GRO95/8021		11/11/2013	CJR	1
Wet Chemistry										
General										
Nitrite Plus Nitrate, Dissolved	0.3 "J"	mg/l	0.1	0.31	1	4500B/F		11/13/2013	CWT	1
Sulfate, Dissolved	6.82 "J"	mg/l	3.4	10.6	2	300.0		11/14/2013	CWT	1

Project Name SMITH'S UNION 76/SOLON SPRINGS **Invoice #** E26090
Project #

Lab Code 5026090D
Sample ID MW-4
Sample Matrix water
Sample Date 11/7/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Iron, Dissolved	0.16 "J"	mg/l	0.06	0.21	1	200.7		11/18/2013	CWT	1
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		11/14/2013	CWT	1
Manganese, Dissolved	194	ug/L	4.8	15.4	1	200.7		11/18/2013	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.27	ug/l	0.27	0.85	1	GRO95/8021		11/11/2013	CJR	1
Ethylbenzene	< 0.82	ug/l	0.82	2.6	1	GRO95/8021		11/11/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.37	ug/l	0.37	1.2	1	GRO95/8021		11/11/2013	CJR	1
Naphthalene	< 1.2	ug/l	1.2	3.8	1	GRO95/8021		11/11/2013	CJR	1
Toluene	< 0.8	ug/l	0.8	2.6	1	GRO95/8021		11/11/2013	CJR	1
1,2,4-Trimethylbenzene	< 0.83	ug/l	0.83	2.6	1	GRO95/8021		11/11/2013	CJR	1
1,3,5-Trimethylbenzene	< 0.86	ug/l	0.86	2.7	1	GRO95/8021		11/11/2013	CJR	1
m&p-Xylene	< 1.6	ug/l	1.6	5.2	1	GRO95/8021		11/11/2013	CJR	1
o-Xylene	< 0.81	ug/l	0.81	2.6	1	GRO95/8021		11/11/2013	CJR	1
Wet Chemistry										
General										
Nitrite Plus Nitrate, Dissolved	0.5	mg/l	0.1	0.31	1	4500B/F		11/13/2013	CWT	1
Sulfate, Dissolved	7.62 "J"	mg/l	3.4	10.6	2	300.0		11/14/2013	CWT	1

Lab Code 5026090E
Sample ID MW-1
Sample Matrix water
Sample Date 11/7/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Iron, Dissolved	0.16 "J"	mg/l	0.06	0.21	1	200.7		11/18/2013	CWT	1
Lead, Dissolved	1.2 "J"	ug/L	0.7	2.5	1	7421		11/14/2013	CWT	1
Manganese, Dissolved	27.8	ug/L	4.8	15.4	1	200.7		11/18/2013	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	44	ug/l	0.27	0.85	1	GRO95/8021		11/11/2013	CJR	1
Ethylbenzene	1.36 "J"	ug/l	0.82	2.6	1	GRO95/8021		11/11/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.37	ug/l	0.37	1.2	1	GRO95/8021		11/11/2013	CJR	1
Naphthalene	< 1.2	ug/l	1.2	3.8	1	GRO95/8021		11/11/2013	CJR	1
Toluene	2.22 "J"	ug/l	0.8	2.6	1	GRO95/8021		11/11/2013	CJR	1
1,2,4-Trimethylbenzene	< 0.83	ug/l	0.83	2.6	1	GRO95/8021		11/11/2013	CJR	1
1,3,5-Trimethylbenzene	1.43 "J"	ug/l	0.86	2.7	1	GRO95/8021		11/11/2013	CJR	1
m&p-Xylene	1.75 "J"	ug/l	1.6	5.2	1	GRO95/8021		11/11/2013	CJR	1
o-Xylene	< 0.81	ug/l	0.81	2.6	1	GRO95/8021		11/11/2013	CJR	1
Wet Chemistry										
General										
Nitrite Plus Nitrate, Dissolved	< 0.1	mg/l	0.1	0.31	1	4500B/F		11/13/2013	CWT	1
Sulfate, Dissolved	6.92 "J"	mg/l	3.4	10.6	2	300.0		11/14/2013	CWT	1

Project Name SMITH'S UNION 76/SOLON SPRINGS **Invoice #** E26090
Project #

Lab Code 5026090F
Sample ID MW-5
Sample Matrix water
Sample Date 11/7/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Iron, Dissolved	6.23	mg/l	0.06	0.21	1	200.7		11/18/2013	CWT	1
Lead, Dissolved	2.4 "J"	ug/L	0.7	2.5	1	7421		11/14/2013	CWT	1
Manganese, Dissolved	287	ug/L	4.8	15.4	1	200.7		11/18/2013	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	0.64 "J"	ug/l	0.27	0.85	1	GRO95/8021		11/12/2013	CJR	1
Ethylbenzene	4.8	ug/l	0.82	2.6	1	GRO95/8021		11/12/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.37	ug/l	0.37	1.2	1	GRO95/8021		11/12/2013	CJR	1
Naphthalene	2.44 "J"	ug/l	1.2	3.8	1	GRO95/8021		11/12/2013	CJR	1
Toluene	< 0.8	ug/l	0.8	2.6	1	GRO95/8021		11/12/2013	CJR	1
1,2,4-Trimethylbenzene	26	ug/l	0.83	2.6	1	GRO95/8021		11/12/2013	CJR	1
1,3,5-Trimethylbenzene	10.4	ug/l	0.86	2.7	1	GRO95/8021		11/12/2013	CJR	1
m&p-Xylene	21.6	ug/l	1.6	5.2	1	GRO95/8021		11/12/2013	CJR	1
o-Xylene	1.89 "J"	ug/l	0.81	2.6	1	GRO95/8021		11/12/2013	CJR	1
Wet Chemistry										
General										
Nitrite Plus Nitrate, Dissolved	< 0.1	mg/l	0.1	0.31	1	4500B/F		11/13/2013	CWT	1
Sulfate, Dissolved	4.62 "J"	mg/l	3.4	10.6	2	300.0		11/14/2013	CWT	1

Lab Code 5026090G
Sample ID MW-2
Sample Matrix water
Sample Date 11/7/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Iron, Dissolved	2.32	mg/l	0.06	0.21	1	200.7		11/18/2013	CWT	1
Lead, Dissolved	0.9 "J"	ug/L	0.7	2.5	1	7421		11/14/2013	CWT	1
Manganese, Dissolved	68.4	ug/L	4.8	15.4	1	200.7		11/18/2013	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	3.14	ug/l	0.27	0.85	1	GRO95/8021		11/12/2013	CJR	1
Ethylbenzene	22.7	ug/l	0.82	2.6	1	GRO95/8021		11/12/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.37	ug/l	0.37	1.2	1	GRO95/8021		11/12/2013	CJR	1
Naphthalene	6.0	ug/l	1.2	3.8	1	GRO95/8021		11/12/2013	CJR	1
Toluene	3.2	ug/l	0.8	2.6	1	GRO95/8021		11/12/2013	CJR	1
1,2,4-Trimethylbenzene	83	ug/l	0.83	2.6	1	GRO95/8021		11/12/2013	CJR	1
1,3,5-Trimethylbenzene	38	ug/l	0.86	2.7	1	GRO95/8021		11/12/2013	CJR	1
m&p-Xylene	83	ug/l	1.6	5.2	1	GRO95/8021		11/12/2013	CJR	1
o-Xylene	35	ug/l	0.81	2.6	1	GRO95/8021		11/12/2013	CJR	1
Wet Chemistry										
General										
Nitrite Plus Nitrate, Dissolved	0.3 "J"	mg/l	0.1	0.31	1	4500B/F		11/13/2013	CWT	1
Sulfate, Dissolved	5.60 "J"	mg/l	3.4	10.6	2	300.0		11/14/2013	CWT	1

Project Name SMITH'S UNION 76/SOLON SPRINGS **Invoice #** E26090
Project #

Lab Code 5026090H
Sample ID MW-6
Sample Matrix water
Sample Date 11/7/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Iron, Dissolved	39.6	mg/l	0.06	0.21	1	200.7		11/18/2013	CWT	1
Lead, Dissolved	25.6	ug/L	0.7	2.5	1	7421		11/14/2013	CWT	1
Manganese, Dissolved	4230	ug/L	4.8	15.4	1	200.7		11/18/2013	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	21.8	ug/l	0.27	0.85	1	GRO95/8021		11/12/2013	CJR	1
Ethylbenzene	39	ug/l	0.82	2.6	1	GRO95/8021		11/12/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.37	ug/l	0.37	1.2	1	GRO95/8021		11/12/2013	CJR	1
Naphthalene	5.9	ug/l	1.2	3.8	1	GRO95/8021		11/12/2013	CJR	1
Toluene	175	ug/l	0.8	2.6	1	GRO95/8021		11/12/2013	CJR	1
1,2,4-Trimethylbenzene	29.2	ug/l	0.83	2.6	1	GRO95/8021		11/12/2013	CJR	1
1,3,5-Trimethylbenzene	10.3	ug/l	0.86	2.7	1	GRO95/8021		11/12/2013	CJR	1
m&p-Xylene	128	ug/l	1.6	5.2	1	GRO95/8021		11/12/2013	CJR	1
o-Xylene	54	ug/l	0.81	2.6	1	GRO95/8021		11/12/2013	CJR	1
Wet Chemistry										
General										
Nitrite Plus Nitrate, Dissolved	< 0.1	mg/l	0.1	0.31	1	4500B/F		11/13/2013	CWT	1
Sulfate, Dissolved	< 3.4	mg/l	3.4	10.6	2	300.0		11/14/2013	CWT	1

Project Name SMITH'S UNION 76/SOLON SPRINGS **Invoice #** E26090
Project #

Lab Code 5026090I
Sample ID TB
Sample Matrix water
Sample Date 11/7/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/15/2013	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		11/15/2013	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		11/15/2013	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		11/15/2013	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/15/2013	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		11/15/2013	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		11/15/2013	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		11/15/2013	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		11/15/2013	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		11/15/2013	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		11/15/2013	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		11/15/2013	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		11/15/2013	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		11/15/2013	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		11/15/2013	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		11/15/2013	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/15/2013	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		11/15/2013	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		11/15/2013	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		11/15/2013	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		11/15/2013	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		11/15/2013	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		11/15/2013	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		11/15/2013	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		11/15/2013	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		11/15/2013	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		11/15/2013	CJR	8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		11/15/2013	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		11/15/2013	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		11/15/2013	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		11/15/2013	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		11/15/2013	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		11/15/2013	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		11/15/2013	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		11/15/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		11/15/2013	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		11/15/2013	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		11/15/2013	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		11/15/2013	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		11/15/2013	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		11/15/2013	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		11/15/2013	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		11/15/2013	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		11/15/2013	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		11/15/2013	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		11/15/2013	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		11/15/2013	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		11/15/2013	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		11/15/2013	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		11/15/2013	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		11/15/2013	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		11/15/2013	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		11/15/2013	CJR	1
SUR - 1,2-Dichloroethane-d4	97	REC %			1	8260B		11/15/2013	CJR	1
SUR - 4-Bromofluorobenzene	100	REC %			1	8260B		11/15/2013	CJR	1
SUR - Dibromofluoromethane	99	REC %			1	8260B		11/15/2013	CJR	1
SUR - Toluene-d8	100	REC %			1	8260B		11/15/2013	CJR	1

Project Name SMITH'S UNION 76/SOLON SPRINGS **Invoice #** E26090
Project #

Lab Code 5026090J
Sample ID 11427 BUS HWY 53
Sample Matrix Drinking Water
Sample Date 11/7/2013

	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		11/14/2013	CWT	1
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	524.2		11/19/2013	CJR	1
Bromobenzene	< 0.33	ug/l	0.33	1	1	524.2		11/19/2013	CJR	1
Bromodichloromethane	< 0.27	ug/l	0.27	0.85	1	524.2		11/19/2013	CJR	1
Bromoform	< 0.34	ug/l	0.34	1.1	1	524.2		11/19/2013	CJR	1
Bromomethane	< 0.98	ug/l	0.98	3.1	1	524.2		11/19/2013	CJR	1
Carbon Tetrachloride	< 0.25	ug/l	0.25	0.81	1	524.2		11/19/2013	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	524.2		11/19/2013	CJR	1
Chloroethane	< 0.62	ug/l	0.62	2	1	524.2		11/19/2013	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	524.2		11/19/2013	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	524.2		11/19/2013	CJR	1
2-Chlorotoluene	< 0.35	ug/l	0.35	1.1	1	524.2		11/19/2013	CJR	1
4-Chlorotoluene	< 0.29	ug/l	0.29	0.91	1	524.2		11/19/2013	CJR	1
Dibromochloromethane	< 0.2	ug/l	0.2	0.64	1	524.2		11/19/2013	CJR	1
Dibromomethane	< 0.41	ug/l	0.41	1.3	1	524.2		11/19/2013	CJR	1
1,4-Dichlorobenzene	< 0.25	ug/l	0.25	0.8	1	524.2		11/19/2013	CJR	1
1,3-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	524.2		11/19/2013	CJR	1
1,2-Dichlorobenzene	< 0.28	ug/l	0.28	0.88	1	524.2		11/19/2013	CJR	1
Dichlorodifluoromethane	< 0.27	ug/l	0.27	0.85	1	524.2		11/19/2013	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	524.2		11/19/2013	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	524.2		11/19/2013	CJR	7
1,1-Dichloroethene	< 0.31	ug/l	0.31	0.99	1	524.2		11/19/2013	CJR	1
cis-1,2-Dichloroethene	< 0.32	ug/l	0.32	1	1	524.2		11/19/2013	CJR	1
trans-1,2-Dichloroethene	< 0.25	ug/l	0.25	0.8	1	524.2		11/19/2013	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	524.2		11/19/2013	CJR	1
2,2-Dichloropropane	< 0.45	ug/l	0.45	1.4	1	524.2		11/19/2013	CJR	8
1,3-Dichloropropane	< 0.26	ug/l	0.26	0.82	1	524.2		11/19/2013	CJR	1
trans-1,3-Dichloropropene	< 0.22	ug/l	0.22	0.69	1	524.2		11/19/2013	CJR	1
cis-1,3-Dichloropropene	< 0.2	ug/l	0.2	0.63	1	524.2		11/19/2013	CJR	1
1,1-Dichloropropene	< 0.34	ug/l	0.34	1.1	1	524.2		11/19/2013	CJR	1
Ethylbenzene	< 0.27	ug/l	0.27	0.86	1	524.2		11/19/2013	CJR	1
Hexachlorobutadiene	< 0.48	ug/l	0.48	1.5	1	524.2		11/19/2013	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	524.2		11/19/2013	CJR	1
p-Isopropyltoluene	< 0.3	ug/l	0.3	0.94	1	524.2		11/19/2013	CJR	1
Methylene chloride	< 0.35	ug/l	0.35	1.1	1	524.2		11/19/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.26	ug/l	0.26	0.82	1	524.2		11/19/2013	CJR	1
Naphthalene	< 0.49	ug/l	0.49	1.6	1	524.2		11/19/2013	CJR	1
Styrene	< 0.23	ug/l	0.23	0.72	1	524.2		11/19/2013	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	524.2		11/19/2013	CJR	1
1,1,1,2-Tetrachloroethane	< 0.29	ug/l	0.29	0.91	1	524.2		11/19/2013	CJR	1
Tetrachloroethene	< 0.27	ug/l	0.27	0.85	1	524.2		11/19/2013	CJR	1
Toluene	< 0.24	ug/l	0.24	0.75	1	524.2		11/19/2013	CJR	1
1,2,4-Trichlorobenzene	< 0.24	ug/l	0.24	0.76	1	524.2		11/19/2013	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	524.2		11/19/2013	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	524.2		11/19/2013	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.96	1	524.2		11/19/2013	CJR	1
Trichlorofluoromethane	< 0.26	ug/l	0.26	0.84	1	524.2		11/19/2013	CJR	1
1,2,3-Trichloropropane	< 0.91	ug/l	0.91	2.9	1	524.2		11/19/2013	CJR	1
Trichlorotrifluoroethane	< 0.41	ug/l	0.41	1.3	1	524.2		11/19/2013	CJR	1
1,2,4-Trimethylbenzene	< 0.31	ug/l	0.31	0.98	1	524.2		11/19/2013	CJR	1
1,3,5-Trimethylbenzene	< 0.26	ug/l	0.26	0.83	1	524.2		11/19/2013	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	524.2		11/19/2013	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	524.2		11/19/2013	CJR	1
o-Xylene	< 0.25	ug/l	0.25	0.79	1	524.2		11/19/2013	CJR	1

Project Name SMITH'S UNION 76/SOLON SPRINGS **Invoice #** E26090
Project #

Lab Code 5026090K
Sample ID 114235 BUS HWY 53
Sample Matrix Drinking Water
Sample Date 11/7/2013

	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		11/14/2013	CWT	1
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	524.2		11/19/2013	CJR	1
Bromobenzene	< 0.33	ug/l	0.33	1	1	524.2		11/19/2013	CJR	1
Bromodichloromethane	< 0.27	ug/l	0.27	0.85	1	524.2		11/19/2013	CJR	1
Bromoform	< 0.34	ug/l	0.34	1.1	1	524.2		11/19/2013	CJR	1
Bromomethane	< 0.98	ug/l	0.98	3.1	1	524.2		11/19/2013	CJR	1
Carbon Tetrachloride	< 0.25	ug/l	0.25	0.81	1	524.2		11/19/2013	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	524.2		11/19/2013	CJR	1
Chloroethane	< 0.62	ug/l	0.62	2	1	524.2		11/19/2013	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	524.2		11/19/2013	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	524.2		11/19/2013	CJR	1
2-Chlorotoluene	< 0.35	ug/l	0.35	1.1	1	524.2		11/19/2013	CJR	1
4-Chlorotoluene	< 0.29	ug/l	0.29	0.91	1	524.2		11/19/2013	CJR	1
Dibromochloromethane	< 0.2	ug/l	0.2	0.64	1	524.2		11/19/2013	CJR	1
Dibromomethane	< 0.41	ug/l	0.41	1.3	1	524.2		11/19/2013	CJR	1
1,4-Dichlorobenzene	< 0.25	ug/l	0.25	0.8	1	524.2		11/19/2013	CJR	1
1,3-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	524.2		11/19/2013	CJR	1
1,2-Dichlorobenzene	< 0.28	ug/l	0.28	0.88	1	524.2		11/19/2013	CJR	1
Dichlorodifluoromethane	< 0.27	ug/l	0.27	0.85	1	524.2		11/19/2013	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	524.2		11/19/2013	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	524.2		11/19/2013	CJR	7
1,1-Dichloroethene	< 0.31	ug/l	0.31	0.99	1	524.2		11/19/2013	CJR	1
cis-1,2-Dichloroethene	< 0.32	ug/l	0.32	1	1	524.2		11/19/2013	CJR	1
trans-1,2-Dichloroethene	< 0.25	ug/l	0.25	0.8	1	524.2		11/19/2013	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	524.2		11/19/2013	CJR	1
2,2-Dichloropropane	< 0.45	ug/l	0.45	1.4	1	524.2		11/19/2013	CJR	8
1,3-Dichloropropane	< 0.26	ug/l	0.26	0.82	1	524.2		11/19/2013	CJR	1
trans-1,3-Dichloropropene	< 0.22	ug/l	0.22	0.69	1	524.2		11/19/2013	CJR	1
cis-1,3-Dichloropropene	< 0.2	ug/l	0.2	0.63	1	524.2		11/19/2013	CJR	1
1,1-Dichloropropene	< 0.34	ug/l	0.34	1.1	1	524.2		11/19/2013	CJR	1
Ethylbenzene	< 0.27	ug/l	0.27	0.86	1	524.2		11/19/2013	CJR	1
Hexachlorobutadiene	< 0.48	ug/l	0.48	1.5	1	524.2		11/19/2013	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	524.2		11/19/2013	CJR	1
p-Isopropyltoluene	< 0.3	ug/l	0.3	0.94	1	524.2		11/19/2013	CJR	1
Methylene chloride	< 0.35	ug/l	0.35	1.1	1	524.2		11/19/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.26	ug/l	0.26	0.82	1	524.2		11/19/2013	CJR	1
Naphthalene	< 0.49	ug/l	0.49	1.6	1	524.2		11/19/2013	CJR	1
Styrene	< 0.23	ug/l	0.23	0.72	1	524.2		11/19/2013	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	524.2		11/19/2013	CJR	1
1,1,1,2-Tetrachloroethane	< 0.29	ug/l	0.29	0.91	1	524.2		11/19/2013	CJR	1
Tetrachloroethene	< 0.27	ug/l	0.27	0.85	1	524.2		11/19/2013	CJR	1
Toluene	< 0.24	ug/l	0.24	0.75	1	524.2		11/19/2013	CJR	1
1,2,4-Trichlorobenzene	< 0.24	ug/l	0.24	0.76	1	524.2		11/19/2013	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	524.2		11/19/2013	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	524.2		11/19/2013	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.96	1	524.2		11/19/2013	CJR	1
Trichlorofluoromethane	< 0.26	ug/l	0.26	0.84	1	524.2		11/19/2013	CJR	1
1,2,3-Trichloropropane	< 0.91	ug/l	0.91	2.9	1	524.2		11/19/2013	CJR	1
Trichlorotrifluoroethane	< 0.41	ug/l	0.41	1.3	1	524.2		11/19/2013	CJR	1
1,2,4-Trimethylbenzene	< 0.31	ug/l	0.31	0.98	1	524.2		11/19/2013	CJR	1
1,3,5-Trimethylbenzene	< 0.26	ug/l	0.26	0.83	1	524.2		11/19/2013	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	524.2		11/19/2013	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	524.2		11/19/2013	CJR	1
o-Xylene	< 0.25	ug/l	0.25	0.79	1	524.2		11/19/2013	CJR	1

Project Name SMITH'S UNION 76/SOLON SPRINGS **Invoice #** E26090
Project #

Lab Code 5026090L
Sample ID 9182 E HUGHES
Sample Matrix Drinking Water
Sample Date 11/7/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	3.2	ug/L	0.7	2.5	1	7421		11/14/2013	CWT	1
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	524.2		11/19/2013	CJR	1
Bromobenzene	< 0.33	ug/l	0.33	1	1	524.2		11/19/2013	CJR	1
Bromodichloromethane	< 0.27	ug/l	0.27	0.85	1	524.2		11/19/2013	CJR	1
Bromoform	< 0.34	ug/l	0.34	1.1	1	524.2		11/19/2013	CJR	1
Bromomethane	< 0.98	ug/l	0.98	3.1	1	524.2		11/19/2013	CJR	1
Carbon Tetrachloride	< 0.25	ug/l	0.25	0.81	1	524.2		11/19/2013	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	524.2		11/19/2013	CJR	1
Chloroethane	< 0.62	ug/l	0.62	2	1	524.2		11/19/2013	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	524.2		11/19/2013	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	524.2		11/19/2013	CJR	1
2-Chlorotoluene	< 0.35	ug/l	0.35	1.1	1	524.2		11/19/2013	CJR	1
4-Chlorotoluene	< 0.29	ug/l	0.29	0.91	1	524.2		11/19/2013	CJR	1
Dibromochloromethane	< 0.2	ug/l	0.2	0.64	1	524.2		11/19/2013	CJR	1
Dibromomethane	< 0.41	ug/l	0.41	1.3	1	524.2		11/19/2013	CJR	1
1,4-Dichlorobenzene	< 0.25	ug/l	0.25	0.8	1	524.2		11/19/2013	CJR	1
1,3-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	524.2		11/19/2013	CJR	1
1,2-Dichlorobenzene	< 0.28	ug/l	0.28	0.88	1	524.2		11/19/2013	CJR	1
Dichlorodifluoromethane	< 0.27	ug/l	0.27	0.85	1	524.2		11/19/2013	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	524.2		11/19/2013	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	524.2		11/19/2013	CJR	7
1,1-Dichloroethene	< 0.31	ug/l	0.31	0.99	1	524.2		11/19/2013	CJR	1
cis-1,2-Dichloroethene	< 0.32	ug/l	0.32	1	1	524.2		11/19/2013	CJR	1
trans-1,2-Dichloroethene	< 0.25	ug/l	0.25	0.8	1	524.2		11/19/2013	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	524.2		11/19/2013	CJR	1
2,2-Dichloropropane	< 0.45	ug/l	0.45	1.4	1	524.2		11/19/2013	CJR	8
1,3-Dichloropropane	< 0.26	ug/l	0.26	0.82	1	524.2		11/19/2013	CJR	1
trans-1,3-Dichloropropene	< 0.22	ug/l	0.22	0.69	1	524.2		11/19/2013	CJR	1
cis-1,3-Dichloropropene	< 0.2	ug/l	0.2	0.63	1	524.2		11/19/2013	CJR	1
1,1-Dichloropropene	< 0.34	ug/l	0.34	1.1	1	524.2		11/19/2013	CJR	1
Ethylbenzene	< 0.27	ug/l	0.27	0.86	1	524.2		11/19/2013	CJR	1
Hexachlorobutadiene	< 0.48	ug/l	0.48	1.5	1	524.2		11/19/2013	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	524.2		11/19/2013	CJR	1
p-Isopropyltoluene	< 0.3	ug/l	0.3	0.94	1	524.2		11/19/2013	CJR	1
Methylene chloride	< 0.35	ug/l	0.35	1.1	1	524.2		11/19/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.26	ug/l	0.26	0.82	1	524.2		11/19/2013	CJR	1
Naphthalene	< 0.49	ug/l	0.49	1.6	1	524.2		11/19/2013	CJR	1
Styrene	< 0.23	ug/l	0.23	0.72	1	524.2		11/19/2013	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	524.2		11/19/2013	CJR	1
1,1,1,2-Tetrachloroethane	< 0.29	ug/l	0.29	0.91	1	524.2		11/19/2013	CJR	1
Tetrachloroethene	< 0.27	ug/l	0.27	0.85	1	524.2		11/19/2013	CJR	1
Toluene	< 0.24	ug/l	0.24	0.75	1	524.2		11/19/2013	CJR	1
1,2,4-Trichlorobenzene	< 0.24	ug/l	0.24	0.76	1	524.2		11/19/2013	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	524.2		11/19/2013	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	524.2		11/19/2013	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.96	1	524.2		11/19/2013	CJR	1
Trichlorofluoromethane	< 0.26	ug/l	0.26	0.84	1	524.2		11/19/2013	CJR	1
1,2,3-Trichloropropane	< 0.91	ug/l	0.91	2.9	1	524.2		11/19/2013	CJR	1
Trichlorotrifluoroethane	< 0.41	ug/l	0.41	1.3	1	524.2		11/19/2013	CJR	1
1,2,4-Trimethylbenzene	< 0.31	ug/l	0.31	0.98	1	524.2		11/19/2013	CJR	1
1,3,5-Trimethylbenzene	< 0.26	ug/l	0.26	0.83	1	524.2		11/19/2013	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	524.2		11/19/2013	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	524.2		11/19/2013	CJR	1
o-Xylene	< 0.25	ug/l	0.25	0.79	1	524.2		11/19/2013	CJR	1

Project Name SMITH'S UNION 76/SOLON SPRINGS **Invoice #** E26090
Project #

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

Code	*Comment*
1	Laboratory QC within limits.
7	The LCS 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 # № 269(

Page 1 of 2

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

Lab I.D. #

Account No. : | Quote No.:

Project #:

Sampler: (signature) Matthew C Michalski

Project (Name / Location): Smith's Union 76 / Solon Springs

Reports To: Adam Bechand	Invoice To: A. Bechand c/o METCO
Company	Company METCO
Address 1406 Belknap St.	Address 709 Gillette St, Ste 3
City State Zip Superior, WI 54880	City State Zip La Crosse, WI 54603
Phone (715) 394-6637	Phone (608) 781-8879
FAX	FAX

Analysis Requested / Other Analysis

Lab I.D.	Sample I.D.	Collection Date	Collection Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 524.2)	VOC (EPA 8260)	8-RCRA METALS	Iron+Manganese (Dissolved)	PID/FID
5026090A	MW-7	11/7	1:40		X	Y	6	GW	HCL, H_2SO_4, HNO_3			X	X					X			X		X	
B	MW-8	↓	1:20		↓	Y	6	GW				X	X					X			X		X	
C	MW-3	↓	2:30		↓							↓	↓				X	↓					↓	
D	MW-4	↓	3:00		↓							↓	↓				X	↓					↓	
E	MW-1	↓	4:00		↓							↓	↓				↓	↓					↓	
F	MW-5	↓	3:20		↓							↓	↓				↓	↓					↓	
G	MW-2	↓	4:20		↓							↓	↓				↓	↓					↓	
H	MW-6	↓	3:40		↓							↓	↓				↓	↓					↓	
I	TB					N	1																	
J	11427 S Booth, St	11/7	2:45		X	Y	4	GW	HCL, HNO_3			X								X				

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

Note: U&C Rates Apply but bill trip blank as VOC (Method 8260)

"Agent Status"

Analyze 6090 J&L Leads as DW, VOCs as DW per J. Powell 11/11/13 CXR

Lab to send copy of Report to METCO/Jason P (Invoice to METCO)

Sample Integrity - To be completed by receiving lab.

Method of Shipment: Dropped

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
Matthew C Michalski	10:30	11/8/13			

Received in Laboratory By: [signature] Time: 10:00 Date: 11/8/13

CHAIN OF CUSTODY RECORD

Synergy Environmental Lab, Inc.

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

Chain # No 269

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) Mike Mills

Project (Name / Location): Smith's Union 76 / Solon Springs

Reports To: Adam Beckand	Invoice To: A. Beckand c/o METCO
Company	Company METCO
Address See Page 1	Address
City State Zip	City State Zip See Page 1
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
502610C	119235 Hwy 53	11/7	2:16		X	Y	4	GW	HCl, HNO3
L	9181 E Hughes	11/7	2:30		X	Y	4	GW	↓

Analysis Requested

DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 542.2)	VOC (EPA 8260)	8-RCRA METALS										PID/ FID
		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.)

See Page 1

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

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
Mike Mills	10:30	11/8/13			

Received in Laboratory By: [signature] Time: 10:00 Date: 11/9/13

Synergy Environmental Lab,

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

ADAM BACHAND
ADAM BACHAND
1406 BELKNAP STREET
SUPERIOR, WI 54880

Report Date *04-Mar-14*

Project Name SMITH'S UNION 76 STATION **Invoice #** E26559
Project #

Lab Code 5026559A
Sample ID 9182 E. HUGHS
Sample Matrix Water
Sample Date 2/19/2014

	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		2/25/2014	CWT	1

Lab Code 5026559B
Sample ID MW-3
Sample Matrix Water
Sample Date 2/19/2014

	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		2/25/2014	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.27	ug/l	0.27	0.85	1	GRO95/8021		2/27/2014	CJR	1
Ethylbenzene	< 0.82	ug/l	0.82	2.6	1	GRO95/8021		2/27/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.37	ug/l	0.37	1.2	1	GRO95/8021		2/27/2014	CJR	1
Naphthalene	< 1.2	ug/l	1.2	3.8	1	GRO95/8021		2/27/2014	CJR	1
Toluene	< 0.8	ug/l	0.8	2.6	1	GRO95/8021		2/27/2014	CJR	1
1,2,4-Trimethylbenzene	< 0.83	ug/l	0.83	2.6	1	GRO95/8021		2/27/2014	CJR	1
1,3,5-Trimethylbenzene	< 0.86	ug/l	0.86	2.7	1	GRO95/8021		2/27/2014	CJR	1
m&p-Xylene	< 1.6	ug/l	1.6	5.2	1	GRO95/8021		2/27/2014	CJR	1
o-Xylene	< 0.81	ug/l	0.81	2.6	1	GRO95/8021		2/27/2014	CJR	1

Project Name SMITH'S UNION 76 STATION **Invoice #** E26559
Project #

Lab Code 5026559C
Sample ID MW-2
Sample Matrix Water
Sample Date 2/19/2014

	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		2/25/2014	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	23.5	ug/l	2.7	8.5	10	GRO95/8021		2/27/2014	CJR	1
Ethylbenzene	138	ug/l	8.2	26	10	GRO95/8021		2/27/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 3.7	ug/l	3.7	12	10	GRO95/8021		2/27/2014	CJR	1
Naphthalene	54	ug/l	12	38	10	GRO95/8021		2/27/2014	CJR	1
Toluene	13.8 "J"	ug/l	8	26	10	GRO95/8021		2/27/2014	CJR	1
1,2,4-Trimethylbenzene	540	ug/l	8.3	26	10	GRO95/8021		2/27/2014	CJR	1
1,3,5-Trimethylbenzene	235	ug/l	8.6	27	10	GRO95/8021		2/27/2014	CJR	1
m&p-Xylene	540	ug/l	16	52	10	GRO95/8021		2/27/2014	CJR	1
o-Xylene	200	ug/l	8.1	26	10	GRO95/8021		2/27/2014	CJR	1

Lab Code 5026559D
Sample ID MW-5
Sample Matrix Water
Sample Date 2/19/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	2.7	ug/L	0.7	2.5	1	7421		2/25/2014	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	< 2.7	ug/l	2.7	8.5	10	GRO95/8021		2/27/2014	CJR	1
Ethylbenzene	20.9 "J"	ug/l	8.2	26	10	GRO95/8021		2/27/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 3.7	ug/l	3.7	12	10	GRO95/8021		2/27/2014	CJR	3
Naphthalene	20.2 "J"	ug/l	12	38	10	GRO95/8021		2/27/2014	CJR	1
Toluene	< 8	ug/l	8	26	10	GRO95/8021		2/27/2014	CJR	1
1,2,4-Trimethylbenzene	195	ug/l	8.3	26	10	GRO95/8021		2/27/2014	CJR	1
1,3,5-Trimethylbenzene	46	ug/l	8.6	27	10	GRO95/8021		2/27/2014	CJR	1
m&p-Xylene	65	ug/l	16	52	10	GRO95/8021		2/27/2014	CJR	1
o-Xylene	< 8.1	ug/l	8.1	26	10	GRO95/8021		2/27/2014	CJR	1

Project Name SMITH'S UNION 76 STATION **Invoice #** E26559
Project #

Lab Code 5026559E
Sample ID MW-7
Sample Matrix Water
Sample Date 2/19/2014

	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		2/25/2014	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	23.7	ug/l	0.27	0.85	1	GRO95/8021		2/28/2014	CJR	1
Ethylbenzene	49	ug/l	0.82	2.6	1	GRO95/8021		2/28/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.37	ug/l	0.37	1.2	1	GRO95/8021		2/28/2014	CJR	1
Naphthalene	9.8	ug/l	1.2	3.8	1	GRO95/8021		2/28/2014	CJR	1
Toluene	2.41 "J"	ug/l	0.8	2.6	1	GRO95/8021		2/28/2014	CJR	1
1,2,4-Trimethylbenzene	57	ug/l	0.83	2.6	1	GRO95/8021		2/28/2014	CJR	1
1,3,5-Trimethylbenzene	17	ug/l	0.86	2.7	1	GRO95/8021		2/28/2014	CJR	1
m&p-Xylene	178	ug/l	1.6	5.2	1	GRO95/8021		2/28/2014	CJR	1
o-Xylene	7.0	ug/l	0.81	2.6	1	GRO95/8021		2/28/2014	CJR	1

Lab Code 5026559F
Sample ID MW-6
Sample Matrix Water
Sample Date 2/19/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	33.0	ug/L	1.4	5	2	7421		2/25/2014	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	304	ug/l	27	85	100	GRO95/8021		2/27/2014	CJR	1
Ethylbenzene	3200	ug/l	82	260	100	GRO95/8021		2/27/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 37	ug/l	37	120	100	GRO95/8021		2/27/2014	CJR	1
Naphthalene	2540	ug/l	120	380	100	GRO95/8021		2/27/2014	CJR	1
Toluene	3300	ug/l	80	260	100	GRO95/8021		2/27/2014	CJR	1
1,2,4-Trimethylbenzene	4000	ug/l	83	260	100	GRO95/8021		2/27/2014	CJR	1
1,3,5-Trimethylbenzene	1280	ug/l	86	270	100	GRO95/8021		2/27/2014	CJR	1
m&p-Xylene	11500	ug/l	160	520	100	GRO95/8021		2/27/2014	CJR	1
o-Xylene	3040	ug/l	81	260	100	GRO95/8021		2/27/2014	CJR	1

Lab Code 5026559G
Sample ID TB
Sample Matrix Water
Sample Date 2/19/2014

	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		2/27/2014	CJR	1
Ethylbenzene	< 0.82	ug/l	0.82	2.6	1	GRO95/8021		2/27/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.37	ug/l	0.37	1.2	1	GRO95/8021		2/27/2014	CJR	1
Naphthalene	< 1.2	ug/l	1.2	3.8	1	GRO95/8021		2/27/2014	CJR	1
Toluene	< 0.8	ug/l	0.8	2.6	1	GRO95/8021		2/27/2014	CJR	1
1,2,4-Trimethylbenzene	< 0.83	ug/l	0.83	2.6	1	GRO95/8021		2/27/2014	CJR	1
1,3,5-Trimethylbenzene	< 0.86	ug/l	0.86	2.7	1	GRO95/8021		2/27/2014	CJR	1
m&p-Xylene	< 1.6	ug/l	1.6	5.2	1	GRO95/8021		2/27/2014	CJR	1
o-Xylene	< 0.81	ug/l	0.81	2.6	1	GRO95/8021		2/27/2014	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.
3	The matrix spike 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 CUSTODY RECORD

Synergy Environmental Lab, Inc.

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

Chain # № 2530

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)

Project (Name / Location): Smith's Union 76 Station - Solon Springs

Reports To: Adam Backlund	Invoice To: A. Backlund c/o METCO
Company	Company METCO
Address 1406 Belknap St.	Address 707 Gillette St., Ste 3
City State Zip Superior, WI 54880	City State Zip La Crosse, WI 54603
Phone (715) 394-6637	Phone (608) 781-8879
FAX	FAX

Analysis Requested | **Other Analysis**

Lab I.D.	Sample I.D.	Collection Date	Collection Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 542.2)	VOC (EPA 8260)	8-RCRA METALS	PID/ FID
592655918	918 E. Hughes	2-19	10:55		X	Y	1	GW	HNO_3			X					X						
B	MW-3		11:50				4		HNO_3/HCl														
C	MW-2		2:10																				
D	MW-5		2:20																				
E	MW-7		3:05																				
F	MW-6		2:40																				
G	TB						1										X						

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

Note: U&C Rates Apply "Agent States"

Lab to send copy of Report to METCO/Jason P. (Invoice to METCO)
Special Pricing on (918 E. Hughes) per JBrow on 2-21-14

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
	1013am	2-20-14			

Received In Laboratory By: Time: 8:15 Date: 2.21.14

Synergy Environmental Lab,

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

ADAM BACHAND
ADAM BACHAND
1406 BELKNAP STREET
SUPERIOR, WI 54880

Report Date *30-May-14*

Project Name SMITH'S UNION 76 **Invoice #** E27030
Project #

Lab Code 5027030A
Sample ID MW-3
Sample Matrix Water
Sample Date 5/21/2014

	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		5/29/2014	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.27	ug/l	0.27	0.85	1	GRO95/8021		5/27/2014	CJR	1
Ethylbenzene	< 0.82	ug/l	0.82	2.6	1	GRO95/8021		5/27/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.37	ug/l	0.37	1.2	1	GRO95/8021		5/27/2014	CJR	1
Naphthalene	< 1.2	ug/l	1.2	3.8	1	GRO95/8021		5/27/2014	CJR	1
Toluene	< 0.8	ug/l	0.8	2.6	1	GRO95/8021		5/27/2014	CJR	1
1,2,4-Trimethylbenzene	< 0.83	ug/l	0.83	2.6	1	GRO95/8021		5/27/2014	CJR	1
1,3,5-Trimethylbenzene	< 0.86	ug/l	0.86	2.7	1	GRO95/8021		5/27/2014	CJR	1
m&p-Xylene	< 1.6	ug/l	1.6	5.2	1	GRO95/8021		5/27/2014	CJR	1
o-Xylene	< 0.81	ug/l	0.81	2.6	1	GRO95/8021		5/27/2014	CJR	1

Project Name SMITH'S UNION 76 **Invoice #** E27030
Project #

Lab Code 5027030B
Sample ID MW-4
Sample Matrix Water
Sample Date 5/21/2014

	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		5/29/2014	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.27	ug/l	0.27	0.85	1	GRO95/8021		5/27/2014	CJR	1
Ethylbenzene	< 0.82	ug/l	0.82	2.6	1	GRO95/8021		5/27/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.37	ug/l	0.37	1.2	1	GRO95/8021		5/27/2014	CJR	1
Naphthalene	< 1.2	ug/l	1.2	3.8	1	GRO95/8021		5/27/2014	CJR	1
Toluene	< 0.8	ug/l	0.8	2.6	1	GRO95/8021		5/27/2014	CJR	1
1,2,4-Trimethylbenzene	< 0.83	ug/l	0.83	2.6	1	GRO95/8021		5/27/2014	CJR	1
1,3,5-Trimethylbenzene	< 0.86	ug/l	0.86	2.7	1	GRO95/8021		5/27/2014	CJR	1
m&p-Xylene	< 1.6	ug/l	1.6	5.2	1	GRO95/8021		5/27/2014	CJR	1
o-Xylene	< 0.81	ug/l	0.81	2.6	1	GRO95/8021		5/27/2014	CJR	1

Lab Code 5027030C
Sample ID MW-8
Sample Matrix Water
Sample Date 5/21/2014

	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		5/29/2014	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.27	ug/l	0.27	0.85	1	GRO95/8021		5/27/2014	CJR	1
Ethylbenzene	< 0.82	ug/l	0.82	2.6	1	GRO95/8021		5/27/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.37	ug/l	0.37	1.2	1	GRO95/8021		5/27/2014	CJR	1
Naphthalene	< 1.2	ug/l	1.2	3.8	1	GRO95/8021		5/27/2014	CJR	1
Toluene	< 0.8	ug/l	0.8	2.6	1	GRO95/8021		5/27/2014	CJR	1
1,2,4-Trimethylbenzene	2.09 "J"	ug/l	0.83	2.6	1	GRO95/8021		5/27/2014	CJR	1
1,3,5-Trimethylbenzene	< 0.86	ug/l	0.86	2.7	1	GRO95/8021		5/27/2014	CJR	1
m&p-Xylene	4 "J"	ug/l	1.6	5.2	1	GRO95/8021		5/27/2014	CJR	1
o-Xylene	< 0.81	ug/l	0.81	2.6	1	GRO95/8021		5/27/2014	CJR	1

Project Name SMITH'S UNION 76 **Invoice #** E27030
Project #

Lab Code 5027030D
Sample ID MW-5
Sample Matrix Water
Sample Date 5/21/2014

	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		5/29/2014	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	< 2.7	ug/l	2.7	8.5	10	GRO95/8021		5/27/2014	CJR	1
Ethylbenzene	24.8 "J"	ug/l	8.2	26	10	GRO95/8021		5/27/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 3.7	ug/l	3.7	12	10	GRO95/8021		5/27/2014	CJR	1
Naphthalene	< 12	ug/l	12	38	10	GRO95/8021		5/27/2014	CJR	1
Toluene	< 8	ug/l	8	26	10	GRO95/8021		5/27/2014	CJR	1
1,2,4-Trimethylbenzene	107	ug/l	8.3	26	10	GRO95/8021		5/27/2014	CJR	1
1,3,5-Trimethylbenzene	46	ug/l	8.6	27	10	GRO95/8021		5/27/2014	CJR	1
m&p-Xylene	135	ug/l	16	52	10	GRO95/8021		5/27/2014	CJR	1
o-Xylene	< 8.1	ug/l	8.1	26	10	GRO95/8021		5/27/2014	CJR	1

Lab Code 5027030E
Sample ID MW-2
Sample Matrix Water
Sample Date 5/21/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	5.9	ug/L	0.7	2.5	1	7421		5/29/2014	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	52	ug/l	13.5	42.5	50	GRO95/8021		5/27/2014	CJR	1
Ethylbenzene	330	ug/l	41	130	50	GRO95/8021		5/27/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 18.5	ug/l	18.5	60	50	GRO95/8021		5/27/2014	CJR	1
Naphthalene	65 "J"	ug/l	60	190	50	GRO95/8021		5/27/2014	CJR	1
Toluene	< 40	ug/l	40	130	50	GRO95/8021		5/27/2014	CJR	1
1,2,4-Trimethylbenzene	900	ug/l	41.5	130	50	GRO95/8021		5/27/2014	CJR	1
1,3,5-Trimethylbenzene	370	ug/l	43	135	50	GRO95/8021		5/27/2014	CJR	1
m&p-Xylene	1300	ug/l	80	260	50	GRO95/8021		5/27/2014	CJR	1
o-Xylene	500	ug/l	40.5	130	50	GRO95/8021		5/27/2014	CJR	1

Project Name SMITH'S UNION 76 **Invoice #** E27030
Project #

Lab Code 5027030F
Sample ID MW-1
Sample Matrix Water
Sample Date 5/21/2014

	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		5/29/2014	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	52	ug/l	0.27	0.85	1	GRO95/8021		5/27/2014	CJR	1
Ethylbenzene	0.88 "J"	ug/l	0.82	2.6	1	GRO95/8021		5/27/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.37	ug/l	0.37	1.2	1	GRO95/8021		5/27/2014	CJR	1
Naphthalene	< 1.2	ug/l	1.2	3.8	1	GRO95/8021		5/27/2014	CJR	1
Toluene	1.38 "J"	ug/l	0.8	2.6	1	GRO95/8021		5/27/2014	CJR	1
1,2,4-Trimethylbenzene	< 0.83	ug/l	0.83	2.6	1	GRO95/8021		5/27/2014	CJR	1
1,3,5-Trimethylbenzene	< 0.86	ug/l	0.86	2.7	1	GRO95/8021		5/27/2014	CJR	1
m&p-Xylene	< 1.6	ug/l	1.6	5.2	1	GRO95/8021		5/27/2014	CJR	1
o-Xylene	< 0.81	ug/l	0.81	2.6	1	GRO95/8021		5/27/2014	CJR	1

Lab Code 5027030G
Sample ID MW-7
Sample Matrix Water
Sample Date 5/21/2014

	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		5/29/2014	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	0.87	ug/l	0.27	0.85	1	GRO95/8021		5/27/2014	CJR	1
Ethylbenzene	< 0.82	ug/l	0.82	2.6	1	GRO95/8021		5/27/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.37	ug/l	0.37	1.2	1	GRO95/8021		5/27/2014	CJR	1
Naphthalene	< 1.2	ug/l	1.2	3.8	1	GRO95/8021		5/27/2014	CJR	1
Toluene	< 0.8	ug/l	0.8	2.6	1	GRO95/8021		5/27/2014	CJR	1
1,2,4-Trimethylbenzene	< 0.83	ug/l	0.83	2.6	1	GRO95/8021		5/27/2014	CJR	1
1,3,5-Trimethylbenzene	< 0.86	ug/l	0.86	2.7	1	GRO95/8021		5/27/2014	CJR	1
m&p-Xylene	< 1.6	ug/l	1.6	5.2	1	GRO95/8021		5/27/2014	CJR	1
o-Xylene	< 0.81	ug/l	0.81	2.6	1	GRO95/8021		5/27/2014	CJR	1

Project Name SMITH'S UNION 76 **Invoice #** E27030
Project #

Lab Code 5027030H
Sample ID MW-6
Sample Matrix Water
Sample Date 5/21/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	19.3	ug/L	0.7	2.5	1	7421		5/29/2014	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	2790	ug/l	135	425	500	GRO95/8021		5/27/2014	CJR	1
Ethylbenzene	4900	ug/l	410	1300	500	GRO95/8021		5/27/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 185	ug/l	185	600	500	GRO95/8021		5/27/2014	CJR	1
Naphthalene	750 "J"	ug/l	600	1900	500	GRO95/8021		5/27/2014	CJR	1
Toluene	21000	ug/l	400	1300	500	GRO95/8021		5/27/2014	CJR	1
1,2,4-Trimethylbenzene	3600	ug/l	415	1300	500	GRO95/8021		5/27/2014	CJR	1
1,3,5-Trimethylbenzene	1070 "J"	ug/l	430	1350	500	GRO95/8021		5/27/2014	CJR	1
m&p-Xylene	17400	ug/l	800	2600	500	GRO95/8021		5/27/2014	CJR	1
o-Xylene	6400	ug/l	405	1300	500	GRO95/8021		5/27/2014	CJR	1

Lab Code 5027030I
Sample ID TB
Sample Matrix Water
Sample Date 5/21/2014

	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		5/27/2014	CJR	1
Ethylbenzene	< 0.82	ug/l	0.82	2.6	1	GRO95/8021		5/27/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.37	ug/l	0.37	1.2	1	GRO95/8021		5/27/2014	CJR	1
Naphthalene	< 1.2	ug/l	1.2	3.8	1	GRO95/8021		5/27/2014	CJR	1
Toluene	< 0.8	ug/l	0.8	2.6	1	GRO95/8021		5/27/2014	CJR	1
1,2,4-Trimethylbenzene	< 0.83	ug/l	0.83	2.6	1	GRO95/8021		5/27/2014	CJR	1
1,3,5-Trimethylbenzene	< 0.86	ug/l	0.86	2.7	1	GRO95/8021		5/27/2014	CJR	1
m&p-Xylene	< 1.6	ug/l	1.6	5.2	1	GRO95/8021		5/27/2014	CJR	1
o-Xylene	< 0.81	ug/l	0.81	2.6	1	GRO95/8021		5/27/2014	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.

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 CUSTODY RECORD

Synergy Environmental Lab, Inc.

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

Chain # No 249

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) Matthew C Metko

Project (Name / Location): Smith's Union 761

Reports To: Adam Bachand	Invoice To: A. Bachand c/o METCO
Company	Company METCO
Address 1406 Belknap St.	Address 705 Gillette St., Ste 3
City State Zip Superior, WI 54880	City State Zip La Crosse, WI 54603
Phone (715) 394-6637	Phone (608) 781-8879
FAX	FAX

Analysis Requested | **Other Analysis**

Lab I.D.	Sample I.D.	Collection Date	Collection Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 542.2)	VOC (EPA 8260)	8-RCRA METALS								PID/ FID
S0270301	MW-3	5-21	11:06		X	Y	4	GW	HCl/HNO3			X					X													
B	MW-4		11:25																												
C	MW-8		12:06																												
D	MW-5		12:30																												
E	MW-2		1:00																												
F	MW-1		1:25																												
G	MW-7		1:40																												
H	MW-6		2:30																												
I	TB						1										X														

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

Note: UST Rates Apply

"Agent Status"

Lab to send copy of Report to METCO/Jason P. (Invoice to METCO)

Sample Integrity - To be completed by receiving lab.

Method of Shipment: Driven

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

Cooler seal intact upon receipt: X Yes ____ No

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
Matthew C Metko	9:15am	5-23-14			

Received in Laboratory By: Christina Nelson Time: 8:00 Date: 5/24/14

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)
Smith's Union 76 Station	816029940		9/4/2014	B. Walker/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
			170822.62	X																	
VN065	MW-7		218454.38	X		9/25/2013	2	P	1069.57	1069.91	X		1063.57	10.25	16	10	11/mw	A	X	D	200
			170753.12	X																	
VN066	MW-8		218455.17	X		9/25/2013	2	P	1064.48	1064.88	X		1060.48	5.81	14	10	11/mw	A	X	D	205
			170814.48	X																	
VV630	MW-6		218328.59	X		9/19/2012	2	P	1076.78	1077.21	X		1074.78	15.75	22	10	11/mw	A	X	D	75
			170748.79	X																	
VV631	MW-5		218330.24	X		9/19/2012	2	P	1074.47	1074.94	X		1064.47	12.98	20	10	11/mw	A	X	D	95
			170743.46	X																	
VV632	MW-4		218260.42	X		9/19/2012	2	P	1075.13	1075.52	X		1065.13	13.54	20	10	11/mw	A	X	S	55
			170794.82	X																	
VV633	MW-3		218195.68	X		9/19/2012	2	P	1076.55	1076.87	X		1065.55	13.45	21	10	11/mw	A	X	U	60
			170791.52	X																	
VV634	MW-1		218245.69	X		9/20/2012	2	P	1076.09	1076.54	X		1065.09	14.64	21	10	11/mw	A	X		10
			170797.94	X																	
VV635	MW-2		218263.96	X		9/20/2012	2	P	1076.01	1076.64	X		1066.01	14.61	20	10	11/mw	A	X		10

Location Coordinates Are:

☐ State Plane Coordinate ☐ Northern ☐ Central ☐ Southern [X] Local Grid System

Grid Origin Location: (Check if estimated: ☐)

Lat. 46 ° 21 ' 5.9 " Long. 91 ° 49 ' 14.1 " 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 than $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

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
Smiths Union 76 Station		G-1

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Cory Last: Johnson	09/18/2012	09/18/2012	Geoprobe
Firm: Soil Essentials	MM/ DD/ YYYY	MM /DD/ YYYY	

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

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 46° 21 ' 5.9 " N	N E
NE ¼ of SE ¼ of Section 26 , T45N, R12W	Long 91° 49 ' 14.1" W	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
816029940	Douglas	16	Solon Springs

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-1-1 (0'-4')	36		2–4	Brown fine to course grained sand with gravel	SP			0		M				No petro odor
G-1-2 (4'-8')	24		6–8	Brown fine to course grained sand with gravel	SP			0		M				No petro odor
G-1-3 (8'-12')	24		10–12	Brown fine to course grained sand with gravel	SP			0		M				No petro odor
G-1-4 (12'-16')	36		14–16	Brown fine to course grained sand with gravel	SP			0		M/W				No petro odor
G-1-5 (16'-18')			18	Brown fine to course grained sand with gravel	SP			0		W				No petro odor
			20	EOB at 18 feet. Borehole abandoned. Groundwater sample G-1-W collected at 14-18 feet										
			22											

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

Signature: Firm: **METCO**

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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
Smiths Union 76 Station		G-2

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Cory Last: Johnson Firm: Soil Essentials	09/18/2012 MM/ DD/ YYYY	09/18/2012 MM /DD/ YYYY	Geoprobe

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

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 46° 21 ' 5.9 " N	N E
NE ¼ of SE ¼ of Section 26 , T45N, R12W	Long 91° 49 ' 14.1" W	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
816029940	Douglas	16	Solon Springs

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-2-1 (0'-4')	36		2 4	Brown fine to course grained sand	SP			0		M				No petro odor
G-2-2 (4'-8')	24		6 8	Brown fine to course grained sand	SP			0		M				No petro odor
G-2-3 (8'-12')	30		10 12	Brown fine to course grained sand	SP			20		M				Slight petro odor
G-2-4 (12'-16')	30		14 16	Brown very fine to medium grained sand	SP			700		M/W				Petro odor
G-2-5 (16'-18')	20		18	Brown fine to course grained sand with gravel EOB at 18 feet. Borehole abandoned. Groundwater sample G-2-W collected at 14-18 feet	SP			10		W				No petro odor
			20 22											

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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
Smiths Union 76 Station		G-3

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Cory Last: Johnson Firm: Soil Essentials	09/18/2012 MM/ DD/ YYYY	09/18/2012 MM /DD/ YYYY	Geoprobe/HSA

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
VV634		MW-2			8"

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 46° 21 ' 5.9 " N	N E
NE ¼ of SE ¼ of Section 26 , T45N, R12W	Long 91° 49 ' 14.1" W	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
816029940	Douglas	16	Solon Springs

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-3-1 (0'-4')	36		2–4	Brown fine to course grained sand with gravel	SP		See Well Construction Form	0		M				No petro odor
G-3-2 (4'-8')	24		6–8	Brown fine to course grained sand with gravel	SP			0		M				No petro odor
G-3-3 (8'-12')	24		10–12	Brown fine to course grained sand with gravel	SP			15		M				Slight petro odor
G-3-4 (12'-16')	36		14–16	Brown fine t o course grained sand with gravel	SP			3000		M/W				Petro odor
G-3-5 (16'-18')			18	Brown fine to course grained sand with gravel	SP			180		W				Petro odor
			20											
			22	EOB at 22 feet. Installed MW-2 to 21 feet.										

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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
Smiths Union 76 Station		G-4

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Cory Last: Johnson Firm: Soil Essentials	09/18/2012 MM/ DD/ YYYY	09/18/2012 MM /DD/ YYYY	Geoprobe

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

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 46° 21 ' 5.9 " N	N E
NE ¼ of SE ¼ of Section 26 , T45N, R12W	Long 91° 49 ' 14.1" W	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
816029940	Douglas	16	Solon Springs

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-4-1 (0'-4')	42		2 4 6	Brown fine to course grained sand with gravel	SP			0		M				No petro odor
G-4-2 (4'-8')	24		8 10	Brown fine to course grained sand with gravel	SP			0		M				No petro odor
G-4-3 (8'-12')	24		12 14	Brown fine to course grained sand with gravel	SP			0		M				No petro odor
G-4-4 (12'-16')	30		16	Brown fine to course grained sand with gravel	SP			190		M/W				Petro odor
G-4-5 (16'-18')	24		18	Brown fine to course grained sand with gravel	SP			140		W				Petro odor
			20 22	EOB at 18 feet. Borehole abandoned. Groundwater sample G-4-W collected at 14-18 feet										

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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
Smiths Union 76 Station		G-5

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Cory Last: Johnson Firm: Soil Essentials	09/18/2012 MM/ DD/ YYYY	09/18/2012 MM /DD/ YYYY	Geoprobe/HSA

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
VV633		MW-3			8"

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 46° 21 ' 5.9 " N	N E
NE ¼ of SE ¼ of Section 26 , T45N, R12W	Long 91° 49 ' 14.1" W	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
816029940	Douglas	16	Solon Springs

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')	30		2 4 6	Brown to red fine to course grained sand with gravel	SP		See Well Construction Form	0		M				No petro odor
G-5-2 (4'-8')	12		8 10	Brown to red fine to course grained sand with gravel	SP			0		M				No petro odor
G-5-3 (8'-12')	3		12	Broken rocks and concrete	FILL			0		M				
G-5-4 (12'-16')	24		14 16	Brown fine to course grained sand with gravel	SP			0		M/W				No petro odor
G-5-5 (16'-18')	12		18	Brown fine to course grained sand with gravel	SP			0		W				No petro odor
				Groundwater sample G-5-W collected at 14-18 feet										
			20											
			22	EOB at 22 feet. Installed MW-3 to 21 feet.										

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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
Smiths Union 76 Station		G-6

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Cory Last: Johnson Firm: Soil Essentials	09/18/2012 MM/ DD/ YYYY	09/18/2012 MM /DD/ YYYY	Geoprobe

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

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 46° 21 ' 5.9 " N	N E
NE ¼ of SE ¼ of Section 26 , T45N, R12W	Long 91° 49 ' 14.1" W	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
816029940	Douglas	16	Solon Springs

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-6-1 (0'-4')	36		2 4	Brown fine to course grained sand with gravel	SP			0		M				No petro odor
G-6-2 (4'-8')	24		6 8	Brown fine to course grained sand with gravel	SP			0		M				No petro odor
G-6-3 (8'-12')	24		10 12	Brown fine to course grained sand with gravel	SP			0		M				
G-6-4 (12'-16')	24		14 16	Brown fine to course grained sand with gravel	SP			0		M/W				No petro odor
G-6-5 (16'-18')			18	No recovery, pushed rock				0		W				
				EOB at 18 feet. Borehole abandoned. Groundwater sample G-6-W collected at 14-18 feet										
			20 22											

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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
Smiths Union 76 Station		G-7

Boring Drilled By: Name of crew chief (irst, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Cory Last: Johnson Firm: Soil Essentials	09/18/2012 MM/ DD/ YYYY	09/18/2012 MM /DD/ YYYY	Geoprobe

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

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 46° 21 ' 5.9 " N	N E
NE ¼ of SE ¼ of Section 26 , T45N, R12W	Long 91° 49 ' 14.1" W	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
816029940	Douglas	16	Solon Springs

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-7-1 (0'-4')	30		2 4	Brown fine to course grained sand with gravel	SP			0		DRY				No petro odor
G-7-2 (4'-8')	12		6 8	Brown fine to course grained sand with gravel	SP			0		DRY				No petro odor
G-7-3 (8'-12')	12		10 12	Brown fine to course grained sand with gravel	SP			0		M				
G-7-4 (12'-16')	30		14 16	Brown fine to course grained sand with gravel	SP			0		M/W				No petro odor
G-7-5 (16'-18')	24		18	Brown fine to course grained sand with gravel	SP			0		W				No petro odor
			20 22	EOB at 18 feet. Borehole abandoned. Groundwater sample G-7-W collected at 14-18 feet										

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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
Smiths Union 76 Station		G-8

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Cory Last: Johnson Firm: Soil Essentials	09/19/2012 MM/ DD/ YYYY	09/19/2012 MM /DD/ YYYY	Geoprobe

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

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 46° 21 ' 5.9 " N	N E
NE ¼ of SE ¼ of Section 26 , T45N, R12W	Long 91° 49 ' 14.1" W	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
816029940	Douglas	16	Solon Springs

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-8-1 (0'-4')	36		2, 4, 6	Brown fine to course grained sand with gravel	SP			0		DRY				No petro odor
G-8-2 (4'-8')	24		8, 10	Brown fine to course grained sand with gravel	SP			0		M				No petro odor
G-8-3 (8'-12')	24		12, 14	Brown fine to course grained sand with gravel	SP			0		M				No petro odor
G-8-4 (12'-16')	30		16	Brown fine to course grained sand with gravel	SP			0		M/W				No petro odor
G-8-5 (16'-18')	12		18	Brown fine to course grained sand with gravel	SP			30		W				Slight petro odor
			20, 22	EOB at 18 feet. Borehole abandoned. Groundwater sample G-8-W collected at 14-18 feet										

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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
Smiths Union 76 Station		G-9

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Cory Last: Johnson Firm: Soil Essentials	09/19/2012 MM/ DD/ YYYY	09/19/2012 MM /DD/ YYYY	Geoprobe

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

Local Grid Origin (estimated X) or Boring Location		Local Grid Location	
State Plane N, E	Lat 46° 21 ' 5.9 " N	N	E
NE ¼ of SE ¼ of Section 26 , T45N, R12W	Long 91° 49 ' 14.1" W	Feet S	Feet W

Facility ID	County	County Code	Civil Town / City / Village
816029940	Douglas	16	Solon Springs

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-9-1 (0'-4')	36		2–4	Brown fine to course grained sand with gravel	SP			0		DRY				No petro odor
G-9-2 (4'-8')	24		6–8	Brown fine to course grained sand with gravel	SP			0		M				No petro odor
G-9-3 (8'-12')	12		10–12	Brown fine to course grained sand with gravel	SP			15		M				Slight petro odor
G-9-4 (12'-16')	24		14–16	Brown fine to course grained sand with gravel	SP			350		M/W				Petro odor
G-9-5 (16'-18')	12		18	Red silty sand with gravel	SM			70		W				Slight petro odor
G-9-6 (18'-20')			20	No Recovery										
			22	EOB at 20 feet. Borehole abandoned. Groundwater sample G-9-W collected at 16-20 feet										

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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
Smiths Union 76 Station		G-10

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Cory Last: Johnson Firm: Soil Essentials	09/19/2012 MM/ DD/ YYYY	09/19/2012 MM /DD/ YYYY	Geoprobe

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

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 46° 21 ' 5.9 " N	N E
NE ¼ of SE ¼ of Section 26 , T45N, R12W	Long 91° 49 ' 14.1" W	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
816029940	Douglas	16	Solon Springs

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-10-1 (0'-4')	36		2 4	Brown fine to course grained sand with gravel	SP			0		DRY				No petro odor
G-10-2 (4'-8')	18		6 8	Brown fine to course grained sand with gravel	SP			0		M				No petro odor
G-10-3 (8'-12')	18		10 12	Brown fine to course grained sand with gravel	SP			0		M				No petro odor
G-10-4 (12'-16')	24		14 16	Brown fine to course grained sand with gravel	SP			0		M/W				Petro odor from 15.5' to 15.75'
G-10-5 (16'-18')	20		18	Brown fine to course grained sand with gravel EOB at 18 feet. Borehole abandoned. Groundwater sample G-10-W collected at 14-18 feet	SP			30		W				Slight petro odor
			20 22											

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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
Smiths Union 76 Station		MW-1

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Cory Last: Johnson Firm: Soil Essentials	09/19/2012 MM/ DD/ YYYY	09/19/2012 MM /DD/ YYYY	Geoprobe/HSA

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
VV635		MW-1			8"

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 46° 21 ' 5.9 " N	N E
NE ¼ of SE ¼ of Section 26 , T45N, R12W	Long 91° 49 ' 14.1" W	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
816029940	Douglas	16	Solon Springs

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
			2 4 6 8 10 12 14 16 18 20 22	Blind drilled EOB at 21 feet. Installed MW-1 to 20 feet.			See Well Construction Form							

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
Smiths Union 76 Station		MW-4

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Cory Last: Johnson Firm: Soil Essentials	09/19/2012 MM/ DD/ YYYY	09/19/2012 MM /DD/ YYYY	Geoprobe/HSA

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
	VV632	MW-4			8"

Local Grid Origin (estimated X) or Boring Location		Local Grid Location	
State Plane N, E	Lat 46° 21 ' 5.9 " N	N	E
NE ¼ of SE ¼ of Section 26 , T45N, R12W	Long 91° 49 ' 14.1" W	Feet S	Feet W

Facility ID	County	County Code	Civil Town / City / Village
816029940	Douglas	16	Solon Springs

Sample: Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	Soil Properties: USCS	Graphic Log	Well Diagram	PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
MW-4-1 (0'-4')	36		2–4	Brown fine to course grained sand with gravel	SP		See Well Construction Form	0		DRY				No petro odor
MW-4-2 (4'-8')	24		6–8	Brown fine to course grained sand with gravel	SP			0		M				No petro odor
MW-4-3 (8'-12')	24		10–12	Brown fine to course grained sand with gravel	SP			0		M				No petro odor
MW-4-4 (12'-16')	24		14–16	Brown fine to course grained sand with gravel	SP			100		M/W				No petro odor
MW-4-5 (16'-20')	30		18–20	Brown fine to course grained sand with gravel EOB at 21 feet. Installed MW-4 to 20 feet.	SP			220		W				No petro odor
			22											

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

Signature: Firm: **METCO**

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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
Smiths Union 76 Station		MW-5

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Cory Last: Johnson Firm: Soil Essentials	09/19/2012 MM/ DD/ YYYY	09/19/2012 MM /DD/ YYYY	GeoprobeHSA

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
VV631		MW-5			8"

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 46° 21 ' 5.9 " N	N E
NE ¼ of SE ¼ of Section 26 , T45N, R12W	Long 91° 49 ' 14.1" W	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
816029940	Douglas	16	Solon Springs

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 (0'-4')	42		2 4	Brown fine to course grained sand with gravel	SP		See Well Construction Form	0		DRY				No petro odor
MW-5-2 (4'-8')	36		6 8	Brown fine to course grained sand with gravel	SP			0		M				No petro odor
MW-5-3 (8'-12')	24		10 12	Brown fine to course grained sand with gravel	SP			0		M				No petro odor
MW-5-4 (12'-16')	18		14 16	Brown fine to course grained sand with gravel	SP			100		M/W				Petro odor from 15.75' to 16'
MW-5-5 (16'-20')	24		18 20	Brown to gray fine to course grained sand with gravel	SP			220		W				Petro odor
			22	EOB at 21 feet. Installed MW-5 to 20 feet.										

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

Signature: Firm: **METCO**

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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
Smiths Union 76 Station		MW-6

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Cory Last: Johnson Firm: Soil Essentials	09/19/2012 MM/ DD/ YYYY	09/19/2012 MM /DD/ YYYY	Geoprobe/HSA

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
VV630		MW-6			8"

Local Grid Origin (estimated X) or Boring Location		Local Grid Location	
State Plane N, E	Lat 46° 21 ' 5.9 " N	N	E
NE ¼ of SE ¼ of Section 26 , T45N, R12W	Long 91° 49 ' 14.1" W	Feet S	Feet W

Facility ID	County	County Code	Civil Town / City / Village
816029940	Douglas	16	Solon Springs

Sample Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	Soil Properties: USCS	Graphic Log	Well Diagram	PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
MW-6-1 (0'-4')	36		2-4	Brown fine to course grained sand with gravel	SP		See Well Construction Form	0		M				No petro odor
MW-6-2 (4'-8')	24		6-8	Brown fine to course grained sand with gravel	SP			0		M				No petro odor
MW-6-3 (8'-12')	24		10-12	Brown fine to course grained sand with gravel	SP			0		M				No petro odor
Mw-6-4 (12'-16')	30		14-16	Brown to black fine to course grained sand with gravel	SP			120		M				Petro odor and staining From 15.5' to 16'
MW-6-5 (16'-20')	12		18-20	Grey fine to course grained sand with gravel	SP			250		W				Petro odor
MW-6-6 (20'-21')				Gray fine to course grained sand with gravel	SP			180		W				Petro odor
			22	EOB at 23 feet. Installed MW-6 to 22 feet.										
			24											

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

Signature: Firm: **METCO**

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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
Smiths Union 76 Station		MW-7

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Todd Last: Knuckey Firm: Range Environmental Drilling	09/25/2013 MM/ DD/ YYYY	09/25/2013 MM /DD/ YYYY	Geoprobe/HSA

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
VN065		MW-7			8.25 inches

Local Grid Origin (estimated X) or Boring Location		Local Grid Location	
State Plane N, E	Lat 46° 21 ' 5.9 " N	N	E
NE ¼ of SE ¼ of Section 26 , T45N, R12W	Long 91° 49 ' 14.1" W	Feet S	Feet W

Facility ID	County	County Code	Civil Town / City / Village
816029940	Douglas	16	Solon Springs

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-7-1 (0'-4')	48 3		2	Gray fine to medium grained sand with cobbles	SP		See Well Construction Form	0		Dry				No petro odor
MW-7-2 (4'-8')	48 24		4 6 8	Tan fine to course grained sand with gravel	SP			0		Moist/ Wet				No petro odor
MW-7-3 (8'-12')	48 0		10	No Recovery										
MW-7-4 (12'-16')	48 0		12 14	No Recovery										
			16	EOB at 16 feet. Installed MW-7 to 16 feet.										
			18 20 22 24											

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

Signature: Firm: **METCO**

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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
Smiths Union 76 Station		MW-8

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Todd Last: Knuckey Firm: Range Environmental Drilling	09/25/2013 MM/ DD/ YYYY	09/25/2013 MM /DD/ YYYY	Geoprobe/HSA

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
VN066		MW-8			8.25 inches

Local Grid Origin (estimated X) or Boring Location
State Plane N, E
NE ¼ of SE ¼ of Section 26 , T45N, R12W

Lat 46° 21 ' 5.9 " N
Long 91° 49 ' 14.1" W

Local Grid Location
N E
Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
816029940	Douglas	16	Solon Springs

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
MW-8-1 (0'-4')	48 8		2 4	Brown fine to coarse grained sand with gravel	SP		See Well Construction Form	0		Dry				No petro odor
MW-8-2 (4'-8')	48 24		6 8	Orange to gray fine to course grained sand with gravel and cobbles	SP			0		Moist/ Wet				No petro odor
MW-8-3 (8'-12')	48 42		10 12	Tan to gray fine to coarse grained sand with gravel	SP			50		Wet				Slight petro odor
			14 16 18 20 22 24	EOB at 14 feet. Installed MW-8 to 14 feet.										

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

Signature: Firm: **METCO**

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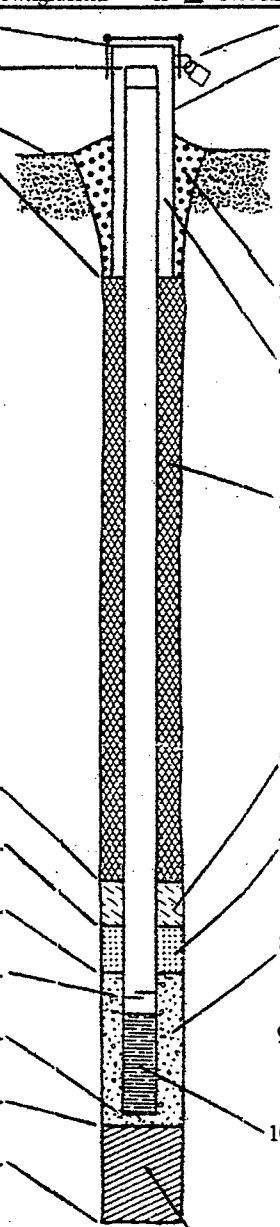
State of Wisconsin
Department of Natural Resources

Route to: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐ _____

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 4-90

Facility/Project Name: Smith Union 76	Local Grid Location of Well: _____ ft. ☐N ☐S _____ ft. ☐E ☐W	Well Name: MW-1
Facility License, Permit or Monitoring Number: _____	Grid Origin Location: Lat. _____ Long. _____ or	Wis. Unique Well Number: VV634 DNR Well Number: _____
Type of Well: Water Table Observation Well ☐ 11; Piezometer ☐ 12	St. Plane _____ ft. N, _____ ft. E.	Date Well Installed: 09/20/12 (m m d d y y)
Distance Well Is From Waste/Source Boundary: _____ ft.	Section Location of Waste/Source: ___1/4 of ___ 1/4 of Sec. ___, T. ___ N, R. ___ ☐E ☐W	Well Installed By: (Person's Name and Firm): Cory Johnson; Soil Essentials, LTC
Is Well A Point of Enforcement Std. Application? ☐ Yes ☐ No	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient; d ☐ Downgradient n ☐ Not Known	



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 1.0 ft.

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

13. Sieve analysis attached? ☐ 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): _____

E. Bentonite seal, top _____ ft. MSL or 1.0 ft.
F. Fine sand, top _____ ft. MSL or 7.4 ft.
G. Filter pack, top _____ ft. MSL or 9.1 ft.
H. Screen joint, top _____ ft. MSL or 11.0 ft.
I. Well bottom _____ ft. MSL or 21.0 ft.
J. Filter pack, bottom _____ ft. MSL or 21.6 ft.
K. Borehole, bottom _____ ft. MSL or 21.5 ft.
L. Borehole, diameter 8.3 in.
M. O.D. well casing 2.3 in.
N. I.D. well casing 2.0 in.

1. Cap and lock? ☐ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: Flush mt 9 in.
b. Length: 1 ft.
c. Material: Steel ☒ 04; Other ☐ _____
d. Additional protection? ☐ Yes ☐ No
If yes, describe: _____
3. Surface seal: Bentonite ☐ 30; Concrete ☒ 01; Other ☐ _____
4. Material between well casing and protective pipe: Bentonite ☒ 30; Annular space seal ☐ __; Other ☐ _____
5. Annular space seal: a. Granular Bentonite ☒ 33
b. _____ bs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. _____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. 3.25 Bags ft³ 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 pellets ☐ 32
c. _____ Other ☐ __
7. Fine sand material: Manufacturer, product name & mesh size
a. RW Sidley #4000
b. Volume added 1 Bag ft³
8. Filter pack material: Manufacturer, product name and mesh size
a. RW Sidley #5
b. Volume added 6 Bags ft³
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 Monoflex
c. Slot size: 0.010 in.
d. Slotted length: 10.0 ft.
11. Backfill material (below filter pack): None ☒ 14; Other ☐ _____

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

Signature: [signature] Firm: Soil Essentials LTC

Please complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144, 147 and 160, Wis. Stats., and ch. NR 141, Wis. Ad. Code. In accordance with ch.144, Wis Stats., failure to file this form may result in a forfeiture of not less than $10, nor more than $5000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than $10,000 for each day of violation. NOTE: Shaded areas are for DNR use only. See instructions for more information including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

Route to: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐ _____

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 4-90

Facility/Project Name: Smith Union 76	Local Grid Location of Well: _____ ft. ☐N ☐S _____ ft. ☐E ☐W	Well Name: MW-2
Facility License, Permit or Monitoring Number: _____	Grid Origin Location: Lat. _____ Long. _____ or	Wis. Unique Well Number: VV635 DNR Well Number: _____
Type of Well: Water Table Observation Well ☐ 11; Piezometer ☐ 12	St. Plane _____ ft. N, _____ ft. E.	Date Well Installed: 09/20/12 (m m d d y y)
Distance Well Is From Waste/Source Boundary: _____ ft.	Section Location of Waste/Source: ___1/4 of ___1/4 of Sec. ___, T. ___ N, R. ___ ☐E ☐W	Well Installed By: (Person's Name and Firm): Cory Johnson; Soil Essentials
Is Well A Point of Enforcement Std. Application? ☐ Yes ☐ No	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient; d ☐ Downgradient n ☐ Not Known	

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 10 ft.

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

13. Sieve analysis attached? ☐ 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):

E. Bentonite seal, top _____ ft. MSL or 10 ft.

F. Fine sand, top _____ ft. MSL or 62 ft.

G. Filter pack, top _____ ft. MSL or 79 ft.

H. Screen joint, top _____ ft. MSL or 100 ft.

I. Well bottom _____ ft. MSL or 200 ft.

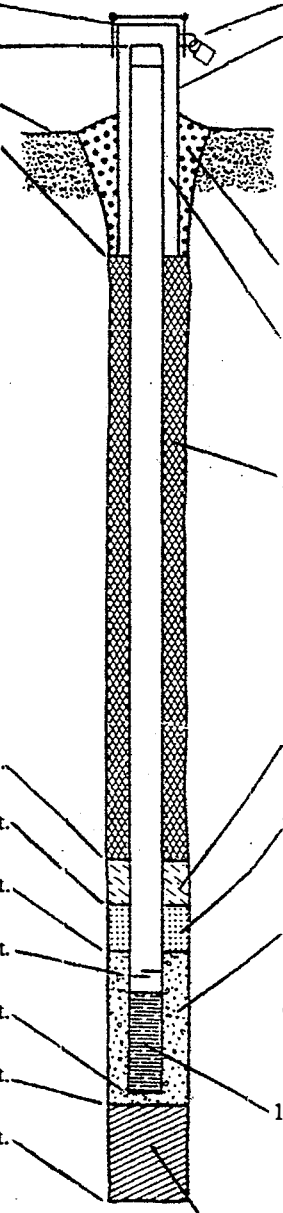
J. Filter pack, bottom _____ ft. MSL or 205 ft.

K. Borehole, bottom _____ ft. MSL or 205 ft.

L. Borehole diameter 8.3 in.

M. O.D. well casing 2.13 in.

N. I.D. well casing 2.0 in.



1. Cap and lock? ☐ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: Flushmt 9 in.
b. Length: 1 ft.
c. Material: Steel ☒ 04; Other ☐ ___
d. Additional protection? ☐ Yes ☐ No
If yes, describe: _____

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

4. Material between well casing and protective pipe: Bentonite ☒ 30; Annular space seal ☐ ___; Other ☐ ___

5. Annular space seal: a. Granular 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. 2.5 Bags ft³ 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 pellets ☐ 32
c. _____ Other ☐ ___

7. Fine sand material: Manufacturer, product name & mesh size
a. RW Sidley #4000
b. Volume added 1 Bag ft³

8. Filter pack material: Manufacturer, product name and mesh size
a. RW Sidley #5
b. Volume added 6 Bags ft³

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 ☐ 91; Other ☐ ___
b. Manufacturer Monoflex
c. Slot size: 0.010 in.
d. Slotted length: 10.0 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: Soil Essentials LLC

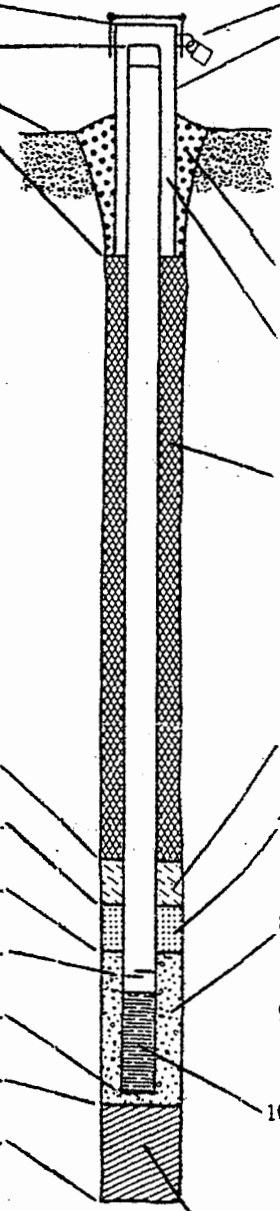
Please complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144, 147 and 160, Wis. Stats., and ch. NR 141, Wis. Ad. Code. In accordance with ch.144, Wis Stats., failure to file this form may result in a forfeiture of not less than $10, nor more than $5000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than $10,000 for each day of violation. NOTE: Shaded areas are for DNR use only. See instructions for more information including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

Route to: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐ _____

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 4-90

Facility/Project Name: Smith union 76	Local Grid Location of Well: _____ ft. ☐N ☐S _____ ft. ☐E ☐W	Well Name: MW-3
Facility License, Permit or Monitoring Number: _____	Grid Origin Location: Lat. _____ Long. _____ or St. Plane _____ ft. N, _____ ft. E.	Wis. Unique Well Number: VV633 DNR Well Number: _____
Type of Well: Water Table Observation Well ☐ 11; Piezometer ☐ 12	Section Location of Waste/Source: ___1/4 of ___ 1/4 of Sec. ___, T. ___ N, R. ___ ☐E ☐W	Date Well Installed: 09/19/12 (m m / d d / y y)
Distance Well Is From Waste/Source Boundary: _____ ft.	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient; d ☐ Downgradient n ☐ Not Known	Well Installed By: (Person's Name and Firm): Cory Johnson; Soil Essentials
Is Well A Point of Enforcement Std. Application? ☐ Yes ☐ No		



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 1.0 ft.

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

13. Sieve analysis attached? ☐ 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):

E. Bentonite seal, top _____ ft. MSL or 1.0 ft.
F. Fine sand, top _____ ft. MSL or 7.1 ft.
G. Filter pack, top _____ ft. MSL or 8.7 ft.
H. Screen joint, top _____ ft. MSL or 11.0 ft.
I. Well bottom _____ ft. MSL or 21.0 ft.
J. Filter pack, bottom _____ ft. MSL or 21.6 ft.
K. Borehole, bottom _____ ft. MSL or 21.5 ft.
L. Borehole diameter 8.3 in.
M. O.D. well casing 2.13 in.
N. I.D. well casing 2.0 in.

1. Cap and lock? ☐ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: Flush mt 9 in.
b. Length: 1 ft.
c. Material: Steel ☒ 04; Other ☐ ___
d. Additional protection? ☐ Yes ☐ No
If yes, describe: _____
3. Surface seal: Bentonite ☐ 30; Concrete ☒ 01; Other ☐ ___
4. Material between well casing and protective pipe: Bentonite ☒ 30; Annular space seal ☐ ___; Other ☐ ___
5. Annular space seal: a. Granular 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. 3 Bags Ft³ 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 pellets ☐ 32
c. _____ Other ☐ ___
7. Fine sand material: Manufacturer, product name & mesh size
a. RW Sidley #4100
b. Volume added 1 Bag ft³
8. Filter pack material: Manufacturer, product name and mesh size
a. RW Sidley #5
b. Volume added 6 Bags ft³
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 Monoflex
c. Slot size: 0.010 in.
d. Slotted length: 10.0 ft.
11. Backfill material (below filter pack): None ☒ 14; Other ☐ ___

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

Signature: [signature] Firm: Soil Essentials LTC

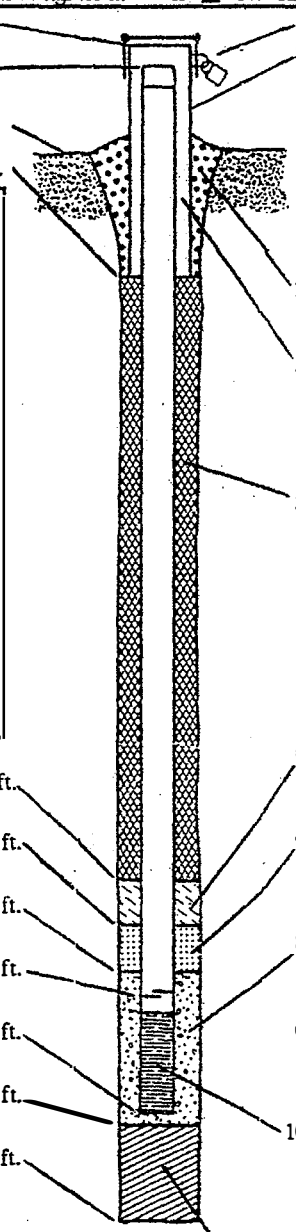
Please complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144, 147 and 160, Wis. Stats., and ch. NR 141, Wis. Ad. Code. In accordance with ch.144, Wis Stats., failure to file this form may result in a forfeiture of not less than $10, nor more than $5000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than $10,000 for each day of violation. NOTE: Shaded areas are for DNR use only. See instructions for more information including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

Route to: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐ _____

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 4-90

Facility/Project Name: Smith union 76	Local Grid Location of Well: _____ ft. ☐N ☐S _____ ft. ☐E ☐W	Well Name: MW-4
Facility License, Permit or Monitoring Number: _____	Grid Origin Location: Lat. _____ Long. _____ or St. Plane _____ ft. N, _____ ft. E.	Wis. Unique Well Number: UV632 DNR Well Number:
Type of Well: Water Table Observation Well ☐ 11; Piezometer ☐ 12		Date Well Installed: 09/19/12 (m m / d d / y y)
Distance Well Is From Waste/Source Boundary: _____ ft.	Section Location of Waste/Source: ___1/4 of ___ 1/4 of Sec. ___, T. ___ N, R. ___ ☐E ☐W	Well Installed By: (Person's Name and Firm): Cory Johnson; Soil Essentials
Is Well A Point of Enforcement Std. Application? ☐ Yes ☐ No	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient; d ☐ Downgradient n ☐ Not Known	



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 10 ft.

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

13. Sieve analysis attached? ☐ 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): _____

E. Bentonite seal, top _____ ft. MSL or 10 ft.
F. Fine sand, top _____ ft. MSL or 6.5 ft.
G. Filter pack, top _____ ft. MSL or 8.2 ft.
H. Screen joint, top _____ ft. MSL or 10.0 ft.
I. Well bottom _____ ft. MSL or 20.0 ft.
J. Filter pack, bottom _____ ft. MSL or 20.5 ft.
K. Borehole, bottom _____ ft. MSL or 20.5 ft.
L. Borehole diameter 8.3 in.
M. O.D. well casing 2.13 in.
N. I.D. well casing 2.0 in.

1. Cap and lock? ☐ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: Flush mt 9 in.
b. Length: 1 ft.
c. Material: Steel ☒ 04; Other ☐ _____
d. Additional protection? ☐ Yes ☐ No
If yes, describe _____
3. Surface seal: Bentonite ☐ 30; Concrete ☒ 01; Other ☐ _____
4. Material between well casing and protective pipe: Bentonite ☒ 30; Annular space seal ☐ __; Other ☐ _____
5. Annular space seal: a. Granular 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. 2.5 Bags Ft³ 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 pellets ☐ 32
c. _____ Other ☐ __
7. Fine sand material: Manufacturer, product name & mesh size
a. RW Sidley #4000 __
b. Volume added 1 Bag ft³
8. Filter pack material: Manufacturer, product name and mesh size
a. RW Sidley #5 __
b. Volume added 6 Bags ft³
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 Monoflex
c. Slot size: 0.010 in.
d. Slotted length: 10.0 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: [signature] Firm: Soil Essentials LTd

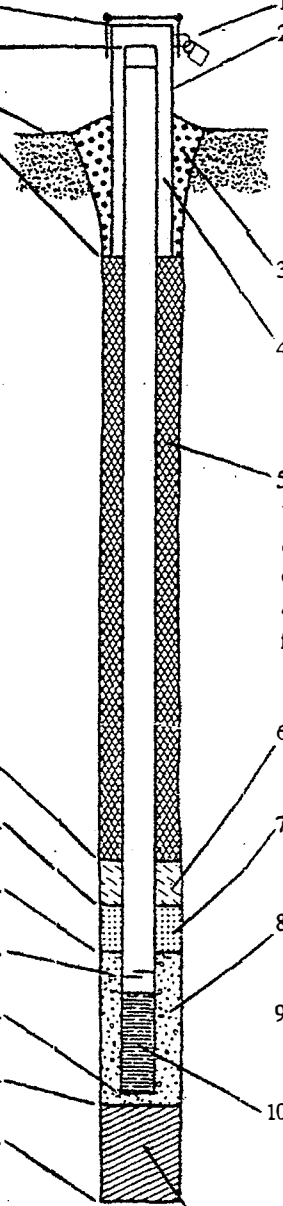
Please complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144, 147 and 160, Wis. Stats., and ch. NR 141, Wis. Ad. Code. In accordance with ch.144, Wis Stats., failure to file this form may result in a forfeiture of not less than $10, nor more than $5000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than $10,000 for each day of violation. NOTE: Shaded areas are for DNR use only. See instructions for more information including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

Route to: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐ _____

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 4-90

Facility/Project Name: Smith union 76	Local Grid Location of Well: _____ ft. ☐N ☐S _____ ft. ☐E ☐W	Well Name: MW-5
Facility License, Permit or Monitoring Number: _____	Grid Origin Location: Lat. _____ Long. _____ or St. Plane _____ ft. N, _____ ft. E.	Wis. Unique Well Number: VV631 DNR Well Number: _____
Type of Well: Water Table Observation Well ☐ 11; Piezometer ☐ 12		Date Well Installed: 09/19/12 (m m / d d / y y)
Distance Well Is From Waste/Source Boundary: _____ ft.	Section Location of Waste/Source: ___1/4 of ___1/4 of Sec. ___, T. ___ N, R. ___ ☐E ☐W	Well Installed By: (Person's Name and Firm): Cory Johnson, Soil Essentials
Is Well A Point of Enforcement Std. Application? ☐ Yes ☐ No	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient; d ☐ Downgradient n ☐ Not Known	



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 attached? ☐ 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):

E. Bentonite seal, top _____ ft. MSL or 10 ft.
F. Fine sand, top _____ ft. MSL or 62 ft.
G. Filter pack, top _____ ft. MSL or 78 ft.
H. Screen joint, top _____ ft. MSL or 10.0 ft.
I. Well bottom _____ ft. MSL or 20.0 ft.
J. Filter pack, bottom _____ ft. MSL or 20.5 ft.
K. Borehole, bottom _____ ft. MSL or 20.5 ft.
L. Borehole, diameter 8.3 in.
M. O.D. well casing 2.125 in.
N. I.D. well casing 2.0 in.

1. Cap and lock? ☐ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: Flush mt 9 in.
b. Length: 1 ft.
c. Material: Steel ☒ 04; Other ☐ __
d. Additional protection? ☐ Yes ☐ No
If yes, describe: _____
3. Surface seal: Bentonite ☐ 30; Concrete ☒ 01; Other ☐ __
4. Material between well casing and protective pipe: Bentonite ☒ 30; Annular space seal ☐ __; Other ☐ __
5. Annular space seal: a. Granular 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. 2.5 Bag Ft³ 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 pellets ☐ 32
c. _____ Other ☐ __
7. Fine sand material: Manufacturer, product name & mesh size
a. RW Sidley #4000
b. Volume added 1 Bag ft³
8. Filter pack material: Manufacturer, product name and mesh size
a. RW Sidley #5
b. Volume added 6 Bags ft³
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 Monoflex
c. Slot size: 0.010 in.
d. Slotted length: 10.0 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: [signature] Firm: Soil Essentials LTD

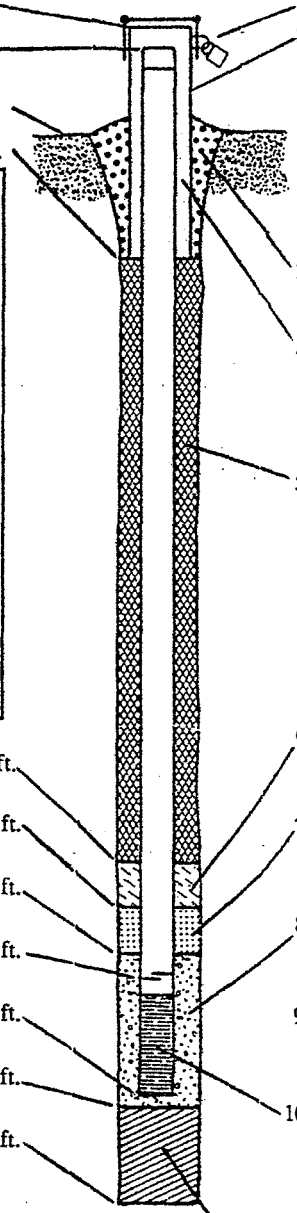
Please complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144, 147 and 160, Wis. Stats., and ch. NR 141, Wis. Ad. Code. In accordance with ch.144, Wis Stats., failure to file this form may result in a forfeiture of not less than $10, nor more than $5000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than $10,000 for each day of violation. NOTE: Shaded areas are for DNR use only. See instructions for more information including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

Route to: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐ _____

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 4-90

Facility/Project Name: Smith Union 76	Local Grid Location of Well: _____ ft. ☐N ☐S _____ ft. ☐E ☐W	Well Name: MW-6
Facility License, Permit or Monitoring Number: _____	Grid Origin Location: Lat. ____ Long. ____ or	Wis. Unique Well Number: VV630 DNR Well Number: ____
Type of Well: Water Table Observation Well ☐ 11; Piezometer ☐ 12	St. Plane _____ ft. N, _____ ft. E.	Date Well Installed: 09/19/12 (m m d d y y)
Distance Well Is From Waste/Source Boundary: _____ ft.	Section Location of Waste/Source: ___1/4 of ___ 1/4 of Sec. ___, T. ___ N, R. ___ ☐E ☐W	Well Installed By: (Person's Name and Firm) Soil Essentials LTD Cory Johnson
Is Well A Point of Enforcement Std. Application? ☐ Yes ☐ No	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	



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 1.0 ft.

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

13. Sieve analysis attached? ☐ 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):

E. Bentonite seal, top _____ ft. MSL or 1.0 ft.
F. Fine sand, top _____ ft. MSL or 6.3 ft.
G. Filter pack, top _____ ft. MSL or 10.0 ft.
H. Screen joint, top _____ ft. MSL or 12.0 ft.
I. Well bottom _____ ft. MSL or 22.0 ft.
J. Filter pack, bottom _____ ft. MSL or 22.5 ft.
K. Borehole, bottom _____ ft. MSL or 22.5 ft.
L. Borehole diameter 6.3 in.
M. O.D. well casing 2.13 in.
N. I.D. well casing 2.0 in.

1. Cap and lock? ☐ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 9 in.
b. Length: 1 ft.
c. Material: Steel ☒ 04; Other ☐ ____
d. Additional protection? ☐ Yes ☐ No
If yes, describe: _____
3. Surface seal: Bentonite ☐ 30; Concrete ☒ 01; Other ☐ ____
4. Material between well casing and protective pipe: Bentonite ☒ 30; Annular space seal ☐ ____; Other ☐ ____
5. Annular space seal: a. Granular 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. 3.5 Bags ft³ 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 pellets ☐ 32
c. _____ Other ☐ ____
7. Fine sand material: Manufacturer, product name & mesh size
a. RW Sidley #4100
b. Volume added 1 Bag ft³
8. Filter pack material: Manufacturer, product name and mesh size
a. RW Sidley #5
b. Volume added 6 Bags ft³
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 Monoflex
c. Slot size: 0.010 in.
d. Slotted length: 10.0 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: Soil Essentials LTD

Please complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144, 147 and 160, Wis. Stats., and ch. NR 141, Wis. Ad. Code. In accordance with ch.144, Wis Stats., failure to file this form may result in a forfeiture of not less than $10, nor more than $5000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than $10,000 for each day of violation. NOTE: Shaded areas are for DNR use only. See instructions for more information including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐
Smith's Union 76 Remediation/Redevelopment ☐ Other ☐

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

Facility/Project Name	Local Grid Location of Well ☐ ft. ☐ N. ☐ S. ☐ ft. ☐ E. ☐ W.	Well Name MW-7
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No. VN065 / DNR Well ID No.
Facility ID	St. Plane ft. N, ft. E. S/C/N	Date Well Installed 09/25/2013 (m m d d y y y y)
Type of Well Well Code /	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 TODD J. Knuckey Range Environmental Drilling
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 0 ft. MSL
D. Surface seal, bottom 0.50 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

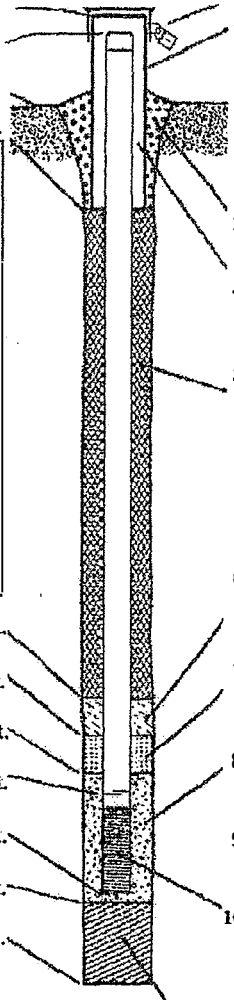
14. Drilling method used: Rotary ☐ 50 / Hollow Stem Auger ☐ 41 / Other ☐

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 1 ft. MSL or ft.
F. Fine sand, top 4 ft. MSL or ft.
G. Filter pack, top 5 ft. MSL or ft.
H. Screen joint, top 6 ft. MSL or ft.
I. Well bottom 16 ft. MSL or ft.
J. Filter pack, bottom 16 ft. MSL or ft.
K. Borehole, bottom 16 ft. MSL or ft.
L. Borehole, diameter 8.25 in.
M. O.D. well casing 2 in.
N. I.D. well casing 1.90 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: in.
b. Length: ft.
c. Material: At-Grade 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. Red Flint 30
b. Volume added 1 Bag
8. Filter pack material: Manufacturer, product name & mesh size
a. Red Flint #5-55
b. Volume added 10 Bags
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 Buffalo
c. Slot size: 0.10 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 Todd J. Knuckey Firm Range Environmental Drilling

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: Smith's Union 76

Facility License, Permit or Monitoring No.

Facility ID

Type of Well — Well Code 1

Distance from Waste/Source ft. | Enf. Stds. Apply ☐

Local Grid Location of Well ☐N. ☐S. ft. ☐E. ☐W.

Local Grid Origin ☐ (estimated: ☐) or Well Location ☐
Lat. ° ' " Long. ° ' " or

St. Plane ft. N, ft. E. S/C/N

Section Location of Waste/Source
1/4 of 1/4 of Sec. T. N, R. ☐E ☐W

Location of Well Relative to Waste/Source
u ☐ Upgradient s ☐ Sidegradient
d ☐ Downgradient n ☐ Not Known

Gov. Lot Number

Well Name: MW-8

Wis. Unique Well No.: JN066 | DNR Well ID No.:

Date Well Installed: 09/25/2013 (m m d d y y y y)

Well Installed By: Name (first, last) and Firm
Todd J. Knuckey
Range Environmental Drilling

A. Protective pipe, top elevation ft. MSL

B. Well casing, top elevation ft. MSL

C. Land surface elevation 0 ft. MSL

D. Surface seal, bottom 0.50 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 1 ft. MSL or ft.

F. Fine sand, top 2 ft. MSL or ft.

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

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

I. Well bottom 14 ft. MSL or ft.

J. Filter pack, bottom 14 ft. MSL or ft.

K. Borehole, bottom 14 ft. MSL or ft.

L. Borehole, diameter 8.25 in.

M. O.D. well casing 2 in.

N. I.D. well casing 1.90 in.

1. Cap and lock? ☒ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: in.
b. Length: ft.
c. Material: A7-Grade | 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. Ft³ 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. Red Flint 30
b. Volume added 1 Bag

8. Filter pack material: Manufacturer, product name & mesh size
a. Red Flint #5-55
b. Volume added 10 Bags

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

10. Screen material:
a. Screen type: Factory cut ☒ 11 | Continuous slot ☐ 01 | Other ☐
b. Manufacturer PVC
c. Slot size: 0.10 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 Todd J. Knuckey | Firm Range Environmental Drilling

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
Smiths Union 76 Station	DOUGLAS	MW-1

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well ID Number
816029940	16	VV635	

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	☒ 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 40 min.

4. Depth of well (from top of well casisng) 20 ft.

5. Inside diameter of well 2 in.

6. Volume of water in filter pack and well casing 5.8 gal.

7. Volume of water removed from well 50 gal.

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

9. Source of water added _____

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

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 14.64 ft.	14.65 ft.
Date	b. 09 / 20 / 2012 (m m d d y y y y)	9/20/2012 (m m d d y y y y)
Time	c. 10 : 10 ☒ a.m. ☐ p.m.	10 : 50 ☒ a.m. ☐ p.m.
12. Sediment in well bottom	____ inches	____ inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15	Clear ☒ 20 Turbid ☐ 25
(Describe)	Color: Brown; High Turbidity; Odor	Color: Clear; Low Turbidity; Odor

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: Adam Last Name: Bachand
Facility/Firm: _____
Street: 1406 Belknap St.
City/State/Zip: Superior WI 54880-

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

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

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

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

Facility/Project Name	County Name	Well Name
Smiths Union 76 Station	DOUGLAS	MW-2

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well ID Number
816029940	16	VV634	

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 30 min.

4. Depth of well (from top of well casisng) 21 ft.

5. Inside diameter of well 2 in.

6. Volume of water in filter pack and well casing 7 gal.

7. Volume of water removed from well 50 gal.

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

9. Source of water added _____

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

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 14.61 ft.	14.7 ft.
Date	b. 09 / 20 / 2012 (m m d d y y y y)	9/20/2012 (m m d d y y y y)
Time	c. 09 : 20 [X] a.m. ☐ p.m.	10 : 00 [X] a.m. ☐ p.m.
12. Sediment in well bottom	___ inches	___ inches
13. Water clarity	Clear ☐ 10 Turbid [X] 15	Clear [X] 20 Turbid ☐ 25
(Describe)	Color: Brown; High Turbidity; Odor	Color: Clear; Low Turbidity; Odor

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: Adam Last Name: Bachand
Facility/Firm: _____
Street: 1406 Belknap St.
City/State/Zip: Superior WI 54880-

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

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

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

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

Facility/Project Name	County Name	Well Name
Smiths Union 76 Station	DOUGLAS	MW-3

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well ID Number
816029940	16	VV633	

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 40 min.

4. Depth of well (from top of well casisng) 21 ft.

5. Inside diameter of well 2 in.

6. Volume of water in filter pack and well casing 7.2 gal.

7. Volume of water removed from well 50 gal.

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

9. Source of water added _____

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

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 13.45 ft.	13.7 ft.
Date	b. 09 / 20 / 2012 (m m d d y y y y)	9/ 20/ 2012 (m m d d y y y y)
Time	c. 08 : 25 X a.m. ☐ p.m.	09 : 05 X a.m. ☐ p.m.
12. Sediment in well bottom	___ inches	___ inches
13. Water clarity	Clear ☐ 10 Turbid X 15	Clear X 20 Turbid ☐ 25
(Describe)	Color: Brown; High Turbidity; No Odor	Color: Clear; Low Turbidity; No Odor

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: Adam Last Name: Bachand
Facility/Firm: _____
Street: 1406 Belknap St.
City/State/Zip: Superior WI 54880-

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

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

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

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

Facility/Project Name	County Name	Well Name
Smiths Union 76 Station	DOUGLAS	MW-4

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well ID Number
816029940	16	VV632	

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 40 min.

4. Depth of well (from top of well casisng) 20 ft.

5. Inside diameter of well 2 in.

6. Volume of water in filter pack and well casing 7.1 gal.

7. Volume of water removed from well 50 gal.

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

9. Source of water added _____

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

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 13.54 ft.	13.68 ft.
Date	b. 09 / 19 / 2012 (m m d d y y y y)	9/19/2012 (m m d d y y y y)
Time	c. 04 : 30 ☐ a.m. X p.m.	05 : 10 ☐ a.m. X p.m.
12. Sediment in well bottom	inches	inches
13. Water clarity	Clear ☐ 10 Turbid X 15	Clear X 20 Turbid ☐ 25
(Describe)	Color: Brown; High Turbidity; No Odor	Color: Clear; Low Turbidity; No Odor

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: Adam Last Name: Bachand
Facility/Firm: _____
Street: 1406 Belknap St.
City/State/Zip: Superior WI 54880-

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

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

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

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

Facility/Project Name	County Name	Well Name
Smiths Union 76 Station	DOUGLAS	MW-5

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well ID Number
816029940	16	VV631	

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 40 min.

4. Depth of well (from top of well casisng) 20 ft.

5. Inside diameter of well 2 in.

6. Volume of water in filter pack and well casing 7.7 gal.

7. Volume of water removed from well 50 gal.

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

9. Source of water added _____

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

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 12.98 ft.	13.69 ft.
Date	b. 09/19/2012 (m m / d d / y y y y)	9/19/2012
Time	c. 02 : 55 ☐ a.m. X p.m.	03 : 40 ☐ a.m. X p.m.
12. Sediment in well bottom	____ inches	____ inches
13. Water clarity	Clear ☐ 10 Turbid X 15	Clear X 20 Turbid ☐ 25
(Describe)	Color: Brown; High Turbidity; Odor	Color: Clear; Low Turbidity; Odor

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: Adam Last Name: Bachand
Facility/Firm: _____
Street: 1406 Belknap St.
City/State/Zip: Superior WI 54880-

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

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

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

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

Facility/Project Name	County Name	Well Name
Smiths Union 76 Station	DOUGLAS	MW-6

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well ID Number
816029940	16	VV630	

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	☒ 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 40 min.

4. Depth of well (from top of well casisng) 20 ft.

5. Inside diameter of well 2 in.

6. Volume of water in filter pack and well casing 6.2 gal.

7. Volume of water removed from well 50 gal.

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

9. Source of water added _____

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

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 15.75 ft.	15.82 ft.
Date	b. 09 / 19 / 2012 (m m d d y y y y)	9/ / 9/ /2012 (m m d d y y y y)
Time	c. 01 : 30 ☐ a.m. ☒ p.m.	02 : 10 ☐ a.m. ☒ p.m.
12. Sediment in well bottom	____ inches	____ inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15	Clear ☒ 20 Turbid ☐ 25
(Describe)	Color: Brown; High Turbidity; Odor	Color: Clear; Low Turbidity; Odor

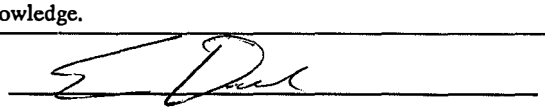
Fill in if drilling fluids were used and well is at solid waste facility:

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: Adam Last Name: Bachand
Facility/Firm: _____
Street: 1406 Belknap St.
City/State/Zip: Superior WI 54880-

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

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

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

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

Facility/Project Name	County Name	Well Name
Smith's Union 76	DOUGLAS	MW-7

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well ID Number
	16	VN065	

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 55 min.

4. Depth of well (from top of well casisng) 16 ft.

5. Inside diameter of well 2 in.

6. Volume of water in filter pack and well casing 6.3 gal.

7. Volume of water removed from well 60 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. 10.25 ft.	10.45 ft.
Date	b. 09 / 25 / 2013 (m m d d y y y y)	9/ /25/ /2013 (m m d d y y y y)
Time	c. 12 : 35 ☐ a.m. X p.m.	01 : 30 ☐ a.m. [X] p.m.
12. Sediment in well bottom	6 inches	inches
13. Water clarity	Clear ☐ 10 Turbid [X] 15	Clear [X] 20 Turbid ☐ 25
(Describe)	Brown	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: Adam Last Name: Bachand
Facility/Firm: Bachand Realty
Street: 1406 Belknap Street
City/State/Zip: Superior WI 54880-

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

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

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

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

Facility/Project Name	County Name	Well Name
Smith's Union 76	DOUGLAS	MW-8

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well ID Number
	16	VN066	

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	☒ 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 35 min.

4. Depth of well (from top of well casisng) 14 ft.

5. Inside diameter of well 2 in.

6. Volume of water in filter pack and well casing 9 gal.

7. Volume of water removed from well 50 gal.

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

9. Source of water added _____

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

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 5.81 ft.	6.44 ft.
Date	b. 09 / 25 / 2013 (m m / d d / y y y y)	9/ / 5/ / 013 (m m / d d / y y y y)
Time	c. 01 : 50 ☐ a.m. X p.m.	02 : 25 ☐ a.m. ☒ p.m.
12. Sediment in well bottom	6 inches	inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15	Clear ☒ 20 Turbid ☐ 25
(Describe)	Dark Gray	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: Adam Last Name: Bachand
Facility/Firm: Bachand Realty
Street: 1406 Belknap Street
City/State/Zip: Superior WI 54880-

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

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

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT

Form 3300-5 2/2000

Notice: Please complete Form 3300-5 and return it to the appropiate DNR office and bureau. Completion of this report 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 this form may result in a forteiture 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 the instructions for more information.

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

(1) GENERAL INFORMATION

WI Unique Well No. _ _ _ _ _ _ | DNR Well ID No. | County: DOUGLAS

Common Well Name: G-1 | Gov't Lot (If applicable): _____

Grid Location: NE 1/4 of SE 1/4 of Sec. 26 ; T. 45 N; R. 12 ☐ E [X] W

_____ ft. ☐ N. ☐ S., _____ ft. ☐ E. ☐ W.

Local Grid Origin ☐ (estimated: ☐) or Well Location ☐

Lat. 46 ° 21 ' 5.9 " Long 91 ° 49 ' 14.1 " or

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

Reason For Abandonment: Sampling complete

WI Unique Well No. of Replacement Well: _ _ _ _ _ _

(2) FACILITY / OWNER INFORMATION

Facility Name: Smiths Union 76 Station

Facility ID: 816029940 | License/Permit/Monitoring No.:

Street Address of Well: 11427 S BUS HWY 53

City, Village, or Town: Solon Springs

Present Well Owner: Adam Bachand | Original Owner: Adam Bachand

Street Address or Route of Owner: 1406 Belknap St.

City, State, Zip Code: Superior WI 54880-

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION

Original Construction Date: 9/18/2012

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

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 (ft.) (From groundsurface): 18 | Casing Diameter (in.): 2 | Casing Depth (ft.): _____

Lower Drillhole Diameter (in.): 2

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown

If Yes, To What Depth? _____ Feet

Depth to Water (Feet): 15

(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL

Pump & Piping Removed?	☐ Yes	☐ No	[X] Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	[X] Not Applicable
Screen Removed?	☐ Yes	☐ No	[X] Not Applicable
Casing Left in Place?	☐ Yes	☐ No	
Was Casing Cut Off Below Surface?	☐ Yes	☐ No	
Did Sealing Material Rise to Surface?	[X] Yes	☐ No	
Did Material Settle After 24 Hours?	☐ Yes	[X] No	
If Yes, Was Hole Retopped?	☐ Yes	☐ No	

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
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Bentonite-Sand Slurry " "
☐ Bentonite Chips

For monitoring wells and monitoring well boreholes only
[X] Bentonite Chips
☐ Granular Bentonite
☐ Bentonite - Cement Grout
☐ Bentonite - Sand Slurry

(5) Material Used To Fill Well/Drillhole

Material	From (Ft.)	To (Ft.)	lbs. Sealant	Mix Ratio or Mud Weight
Bentonite Chips	Surface	18	29	

(6) Comments: Abandoned by Soil Essentials under METCO supervision.

(7) Name of Person or Firm Doing Sealing Work: Eric Dahl (METCO) | Date of Abandonment: 9/18/2012

Signature of Person Doing Work | Date Signed: 10/3/12

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

City, State, Zip Code: LaCrosse WI 54603-

FOR DNR OR COUNTY USE ONLY

Date Received | Noted By

Comments

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT

Form 3300-5 2/2000

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

(1) GENERAL INFORMATION

WI Unique Well No. _ _ _ _ _ _ | DNR Well ID No. | County: DOUGLAS

Common Well Name: G-2 | Gov't Lot (If applicable): _____

Grid Location: NE 1/4 of SE 1/4 of Sec. 26 ; T. 45 N; R. 12 ☐ E [X] W

_____ ft. ☐ N. ☐ S., _____ ft. ☐ E. ☐ W.

Local Grid Origin ☐ (estimated: ☐) or Well Location ☐

Lat. 46 ° 21 ' 5.9 " Long 91 ° 49 ' 14.1 " or

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

Reason For Abandonment: Sampling complete

WI Unique Well No. of Replacement Well: _ _ _ _ _ _

(2) FACILITY / OWNER INFORMATION

Facility Name: Smiths Union 76 Station

Facility ID: 816029940 | License/Permit/Monitoring No.:

Street Address of Well: 11427 S BUS HWY 53

City, Village, or Town: Solon Springs

Present Well Owner: Adam Bachand | Original Owner: Adam Bachand

Street Address or Route of Owner: 1406 Belknap St.

City, State, Zip Code: Superior WI 54880-

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION

Original Construction Date: 9/18/2012

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

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 (ft.) 18 (From groundsurface) Casing Diameter (in.) 2

Casing Depth (ft.) _____

Lower Drillhole Diameter (in.) 2

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown

If Yes, To What Depth? _____ Feet

Depth to Water (Feet) 15

(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL

Pump & Piping Removed?	☐ Yes	☐ No	[X] Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	[X] Not Applicable
Screen Removed?	☐ Yes	☐ No	[X] Not Applicable
Casing Left in Place?	☐ Yes	☐ No	
Was Casing Cut Off Below Surface?	☐ Yes	☐ No	
Did Sealing Material Rise to Surface?	[X] Yes	☐ No	
Did Material Settle After 24 Hours?	☐ Yes	[X] No	
If Yes, Was Hole Retopped?	☐ Yes	☐ No	

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
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Bentonite-Sand Slurry " "
☐ Bentonite Chips

For monitoring wells and monitoring well boreholes only
[X] Bentonite Chips
☐ Granular Bentonite
☐ Bentonite - Cement Grout
☐ Bentonite - Sand Slurry

(5) Material Used To Fill Well/Drillhole

Material	From (Ft.)	To (Ft.)	lbs. Sealant	Mix Ratio or Mud Weight
Bentonite Chips	Surface	18	29	

(6) Comments: Abandoned by Soil Essentials under METCO supervision.

(7) Name of Person or Firm Doing Sealing Work: Eric Dahl (METCO)

Date of Abandonment: 9/18/2012

Signature of Person Doing Work: [signature] Date Signed: 10/3/12

Street or Route: 709 Gillette St. Ste. 3

Telephone Number: (608)781-8879

City, State, Zip Code: LaCrosse WI 54603-

FOR DNR OR COUNTY USE ONLY

Date Received | Noted By

Comments

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT

Form 3300-5 2/2000

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

(1) GENERAL INFORMATION

WI Unique Well No. _ _ _ _ _ _ | DNR Well ID No. | County: DOUGLAS

Common Well Name: G-4 | Gov't Lot (If applicable)

Grid Location: NE 1/4 of SE 1/4 of Sec. 26 ; T. 45 N; R. 12 ☐ E [X] W

_____ ft. ☐ N. ☐ S., _____ ft. ☐ E. ☐ W.

Local Grid Origin ☐ (estimated: ☐) or Well Location ☐

Lat. 46 ° 21 ' 5.9 " Long 91 ° 49 ' 14.1 " or

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

Reason For Abandonment: Sampling complete

WI Unique Well No. of Replacement Well _ _ _ _ _ _

(2) FACILITY / OWNER INFORMATION

Facility Name: Smiths Union 76 Station

Facility ID: 816029940 | License/Permit/Monitoring No.

Street Address of Well: 11427 S BUS HWY 53

City, Village, or Town: Solon Springs

Present Well Owner: Adam Bachand | Original Owner: Adam Bachand

Street Address or Route of Owner: 1406 Belknap St.

City, State, Zip Code: Superior WI 54880-

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION

Original Construction Date: 9/18/2012

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

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 (ft.) 18 (From groundsurface) | Casing Diameter (in.) 2 | Casing Depth (ft.) _____

Lower Drillhole Diameter (in.) 2

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown

If Yes, To What Depth? _____ Feet

Depth to Water (Feet) 15

(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL

Pump & Piping Removed?	☐ Yes	☐ No	[X] Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	[X] Not Applicable
Screen Removed?	☐ Yes	☐ No	[X] Not Applicable
Casing Left in Place?	☐ Yes	☐ No	
Was Casing Cut Off Below Surface?	☐ Yes	☐ No	
Did Sealing Material Rise to Surface?	[X] Yes	☐ No	
Did Material Settle After 24 Hours?	☐ Yes	[X] No	
If Yes, Was Hole Retopped?	☐ Yes	☐ No	

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
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Bentonite-Sand Slurry " "
☐ Bentonite Chips

For monitoring wells and monitoring well boreholes only
[X] Bentonite Chips
☐ Granular Bentonite
☐ Bentonite - Cement Grout
☐ Bentonite - Sand Slurry

(5) Material Used To Fill Well/Drillhole

Material	From (Ft.)	To (Ft.)	lbs. Sealant	Mix Ratio or Mud Weight
Bentonite Chips	Surface	18	29	

(6) Comments: Abandoned by Soil Essentials under METCO supervision.

(7) Name of Person or Firm Doing Sealing Work: Eric Dahl (METCO) | Date of Abandonment: 9/18/2012

Signature of Person Doing Work: Eric Dahl | Date Signed: 10/3/12

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

City, State, Zip Code: LaCrosse WI 54603-

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Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT

Form 3300-5 2/2000

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

(1) GENERAL INFORMATION

WI Unique Well No. _ _ _ _ _ _ | DNR Well ID No. | County: DOUGLAS

Common Well Name: G-6 | Gov't Lot (If applicable):

Grid Location: NE 1/4 of SE 1/4 of Sec. 26 ; T. 45 N; R. 12 ☐ E [X] W

_____ ft. ☐ N. ☐ S., _____ ft. ☐ E. ☐ W.

Local Grid Origin ☐ (estimated: ☐) or Well Location ☐

Lat. 46 ° 21 ' 5.9 " Long 91 ° 49 ' 14.1 " or

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

Reason For Abandonment: Sampling complete

WI Unique Well No. of Replacement Well: _ _ _ _ _ _

(2) FACILITY/OWNER INFORMATION

Facility Name: Smiths Union 76 Station

Facility ID: 816029940 | License/Permit/Monitoring No.:

Street Address of Well: 11427 S BUS HWY 53

City, Village, or Town: Solon Springs

Present Well Owner: Adam Bachand | Original Owner: Adam Bachand

Street Address or Route of Owner: 1406 Belknap St.

City, State, Zip Code: Superior WI 54880-

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION

Original Construction Date: 9/18/2012

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

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 (ft.) 18 (From groundsurface) Casing Diameter (in.) 2

Casing Depth (ft.) _____

Lower Drillhole Diameter (in.) 2

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown

If Yes, To What Depth? _____ Feet

Depth to Water (Feet) 15

(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL

Pump & Piping Removed?	☐ Yes	☐ No	[X] Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	[X] Not Applicable
Screen Removed?	☐ Yes	☐ No	[X] Not Applicable
Casing Left in Place?	☐ Yes	☐ No	
Was Casing Cut Off Below Surface?	☐ Yes	☐ No	
Did Sealing Material Rise to Surface?	[X] Yes	☐ No	
Did Material Settle After 24 Hours?	☐ Yes	[X] No	
If Yes, Was Hole Retopped?	☐ Yes	☐ No	

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
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Bentonite-Sand Slurry " "
☐ Bentonite Chips

For monitoring wells and monitoring well boreholes only
[X] Bentonite Chips
☐ Granular Bentonite
☐ Bentonite - Cement Grout
☐ Bentonite - Sand Slurry

(5) Material Used To Fill Well/Drillhole

Material	From (Ft.)	To (Ft.)	lbs. Sealant	Mix Ratio or Mud Weight
Bentonite Chips	Surface	18	29	

(6) Comments: Abandoned by Soil Essentials under METCO supervision.

(7) Name of Person or Firm Doing Sealing Work: Eric Dahl (METCO) | Date of Abandonment: 9/18/2012

Signature of Person Doing Work: [signature] | Date Signed: 10/3/12

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

City, State, Zip Code: LaCrosse WI 54603-

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Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT

Form 3300-5 2/2000

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

(1) GENERAL INFORMATION

WI Unique Well No. _ _ _ _ _ _ | DNR Well ID No. | County: DOUGLAS

Common Well Name: G-7 | Gov't Lot (If applicable):

Grid Location: NE 1/4 of SE 1/4 of Sec. 26 ; T. 45 N; R. 12 ☐ E [X] W

_____ ft. ☐ N. ☐ S., _____ ft. ☐ E. ☐ W.

Local Grid Origin ☐ (estimated: ☐) or Well Location ☐

Lat. 46 ° 21 ' 5.9 " Long 91 ° 49 ' 14.1 " or

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

Reason For Abandonment: Sampling complete

WI Unique Well No. of Replacement Well: _ _ _ _ _ _

(2) FACILITY / OWNER INFORMATION

Facility Name: Smiths Union 76 Station

Facility ID: 816029940 | License/Permit/Monitoring No.:

Street Address of Well: 11427 S BUS HWY 53

City, Village, or Town: Solon Springs

Present Well Owner: Adam Bachand | Original Owner: Adam Bachand

Street Address or Route of Owner: 1406 Belknap St.

City, State, Zip Code: Superior WI 54880-

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION

Original Construction Date: 9/18/2012

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

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 (ft.) 18 (From groundsurface) | Casing Diameter (in.) 2 | Casing Depth (ft.) _____

Lower Drillhole Diameter (in.) 2

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown

If Yes, To What Depth? _____ Feet

Depth to Water (Feet) 15

(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL

Pump & Piping Removed?	☐ Yes	☐ No	[X] Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	[X] Not Applicable
Screen Removed?	☐ Yes	☐ No	[X] Not Applicable
Casing Left in Place?	☐ Yes	☐ No	
Was Casing Cut Off Below Surface?	☐ Yes	☐ No	
Did Sealing Material Rise to Surface?	[X] Yes	☐ No	
Did Material Settle After 24 Hours?	☐ Yes	[X] No	
If Yes, Was Hole Retopped?	☐ Yes	☐ No	

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
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Bentonite-Sand Slurry " "
☐ Bentonite Chips

For monitoring wells and monitoring well boreholes only
[X] Bentonite Chips
☐ Granular Bentonite
☐ Bentonite - Cement Grout
☐ Bentonite - Sand Slurry

(5) Material Used To Fill Well/Drillhole	From (Ft.)	To (Ft.)	lbs. Sealant	Mix Ratio or Mud Weight
Bentonite Chips	Surface	18	29	

(6) Comments: Abandoned by Soil Essentials under METCO supervision.

(7) Name of Person or Firm Doing Sealing Work: Eric Dahl (METCO) | Date of Abandonment: 9/18/2012

Signature of Person Doing Work | Date Signed: 10/3/12

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

City, State, Zip Code: LaCrosse WI 54603-

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WELL/DRILLHOLE/BOREHOLE ABANDONMENT

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

(1) GENERAL INFORMATION

WI Unique Well No. _ _ _ _ _ _ | DNR Well ID No. | County: DOUGLAS

Common Well Name: G-8 | Gov't Lot (If applicable): _____

Grid Location: NE 1/4 of SE 1/4 of Sec. 26 ; T. 45 N; R. 12 ☐ E [X] W

_____ ft. ☐ N. ☐ S., _____ ft. ☐ E. ☐ W.

Local Grid Origin ☐ (estimated: ☐) or Well Location ☐

Lat. 46 ° 21 ' 5.9 " Long 91 ° 49 ' 14.1 " or

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

Reason For Abandonment: Sampling complete

WI Unique Well No. of Replacement Well: _ _ _ _ _ _

(2) FACILITY / OWNER INFORMATION

Facility Name: Smiths Union 76 Station

Facility ID: 816029940 | License/Permit/Monitoring No.:

Street Address of Well: 11427 S BUS HWY 53

City, Village, or Town: Solon Springs

Present Well Owner: Adam Bachand | Original Owner: Adam Bachand

Street Address or Route of Owner: 1406 Belknap St.

City, State, Zip Code: Superior WI 54880-

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION

Original Construction Date: 9/19/2012

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

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 (ft.) 18 (From groundsurface) | Casing Diameter (in.) 2 | Casing Depth (ft.) _____

Lower Drillhole Diameter (in.) 2

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown

If Yes, To What Depth? _____ Feet

Depth to Water (Feet) 15

(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL

Pump & Piping Removed?	☐ Yes	☐ No	[X] Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	[X] Not Applicable
Screen Removed?	☐ Yes	☐ No	[X] Not Applicable
Casing Left in Place?	☐ Yes	☐ No	
Was Casing Cut Off Below Surface?	☐ Yes	☐ No	
Did Sealing Material Rise to Surface?	[X] Yes	☐ No	
Did Material Settle After 24 Hours?	☐ Yes	[X] No	
If Yes, Was Hole Retopped?	☐ Yes	☐ No	

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
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Bentonite-Sand Slurry " "
☐ Bentonite Chips

For monitoring wells and monitoring well boreholes only
[X] Bentonite Chips
☐ Granular Bentonite
☐ Bentonite - Cement Grout
☐ Bentonite - Sand Slurry

(5) Material Used To Fill Well/Drillhole	From (Ft.)	To (Ft.)	lbs. Sealant	Mix Ratio or Mud Weight
Bentonite Chips	Surface	18	29	

(6) Comments: Abandoned by Soil Essentials under METCO supervision.

(7) Name of Person or Firm Doing Sealing Work: Eric Dahl (METCO) | Date of Abandonment: 9/19/2012

Signature of Person Doing Work | Date Signed: 10/3/12

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

City, State, Zip Code: LaCrosse WI 54603-

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

(1) GENERAL INFORMATION

WI Unique Well No. _ _ _ _ _ _ | DNR Well ID No. | County: DOUGLAS

Common Well Name: G-9 | Gov't Lot (If applicable):

Grid Location: NE 1/4 of SE 1/4 of Sec. 26 ; T. 45 N; R. 12 ☐ E [X] W

_____ ft. ☐ N. ☐ S., _____ ft. ☐ E. ☐ W.

Local Grid Origin ☐ (estimated: ☐) or Well Location ☐

Lat. 46 ° 21 ' 5.9 " Long 91 ° 49 ' 14.1 " or

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

Reason For Abandonment: Sampling complete

WI Unique Well No. of Replacement Well: _ _ _ _ _ _

(2) FACILITY/ OWNER INFORMATION

Facility Name: Smiths Union 76 Station

Facility ID: 816029940 | License/Permit/Monitoring No.:

Street Address of Well: 11427 S BUS HWY 53

City, Village, or Town: Solon Springs

Present Well Owner: Adam Bachand | Original Owner: Adam Bachand

Street Address or Route of Owner: 1406 Belknap St.

City, State, Zip Code: Superior WI 54880-

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION

Original Construction Date: 9/19/2012

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

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 (ft.) 20 (From groundsurface) | Casing Diameter (in.) 2 | Casing Depth (ft.) _____

Lower Drillhole Diameter (in.) 2

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown

If Yes, To What Depth? _____ Feet

Depth to Water (Feet) 15

(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL

Pump & Piping Removed?	☐ Yes	☐ No	[X] Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	[X] Not Applicable
Screen Removed?	☐ Yes	☐ No	[X] Not Applicable
Casing Left in Place?	☐ Yes	☐ No	
Was Casing Cut Off Below Surface?	☐ Yes	☐ No	
Did Sealing Material Rise to Surface?	[X] Yes	☐ No	
Did Material Settle After 24 Hours?	☐ Yes	[X] No	
If Yes, Was Hole Retopped?	☐ Yes	☐ No	

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
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Bentonite-Sand Slurry " "
☐ Bentonite Chips

For monitoring wells and monitoring well boreholes only
[X] Bentonite Chips
☐ Granular Bentonite
☐ Bentonite - Cement Grout
☐ Bentonite - Sand Slurry

(5) Material Used To Fill Well/Drillhole	From (Ft.)	To (Ft.)	lbs. Sealant	Mix Ratio or Mud Weight
Bentonite Chips	Surface	20	32	

(6) Comments: Abandoned by Soil Essentials under METCO supervision.

(7) Name of Person or Firm Doing Sealing Work: Eric Dahl (METCO) | Date of Abandonment: 9/19/2012

Signature of Person Doing Work | Date Signed: 10/3/12

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

City, State, Zip Code: LaCrosse WI 54603-

FOR DNR OR COUNTY USE ONLY

Date Received | Noted By

Comments

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT

Form 3300-5 2/2000

Notice: Please complete Form 3300-5 and return it to the appropiate DNR office and bureau. Completion of this report 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 this form may result in a forteiture 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 the instructions for more information.

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

(1) GENERAL INFORMATION

WI Unique Well No. _ _ _ _ _ _ | DNR Well ID No. | County: DOUGLAS

Common Well Name: G-10 | Gov't Lot (If applicable): _____

Grid Location: NE 1/4 of SE 1/4 of Sec. 26 ; T. 45 N; R. 12 ☐ E [X] W

_____ ft. ☐ N. ☐ S., _____ ft. ☐ E. ☐ W.

Local Grid Origin ☐ (estimated: ☐) or Well Location ☐

Lat. 46 ° 21 ' 5.9 " Long 91 ° 49 ' 14.1 " or

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

Reason For Abandonment: Sampling complete

WI Unique Well No. of Replacement Well: _ _ _ _ _ _

(2) FACILITY/ OWNER INFORMATION

Facility Name: Smiths Union 76 Station

Facility ID: 816029940 | License/Permit/Monitoring No.:

Street Address of Well: 11427 S BUS HWY 53

City, Village, or Town: Solon Springs

Present Well Owner: Adam Bachand | Original Owner: Adam Bachand

Street Address or Route of Owner: 1406 Belknap St.

City, State, Zip Code: Superior WI 54880-

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION

Original Construction Date: 9/19/2012

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

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 (ft.) 18 (From groundsurface) | Casing Diameter (in.) 2 | Casing Depth (ft.) _____

Lower Drillhole Diameter (in.) 2

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown

If Yes, To What Depth? _____ Feet

Depth to Water (Feet) 15

(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL

Pump & Piping Removed?	☐ Yes	☐ No	[X] Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	[X] Not Applicable
Screen Removed?	☐ Yes	☐ No	[X] Not Applicable
Casing Left in Place?	☐ Yes	☐ No	
Was Casing Cut Off Below Surface?	☐ Yes	☐ No	
Did Sealing Material Rise to Surface?	[X] Yes	☐ No	
Did Material Settle After 24 Hours?	☐ Yes	[X] No	
If Yes, Was Hole Retopped?	☐ Yes	☐ No	

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
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Bentonite-Sand Slurry " "
☐ Bentonite Chips

For monitoring wells and monitoring well boreholes only
[X] Bentonite Chips
☐ Granular Bentonite
☐ Bentonite - Cement Grout
☐ Bentonite - Sand Slurry

(5) Material Used To Fill Well/Drillhole

Material	From (Ft.)	To (Ft.)	lbs. Sealant	Mix Ratio or Mud Weight
Bentonite Chips	Surface	18	29	

(6) Comments: Abandoned by Soil Essentials under METCO supervision.

(7) Name of Person or Firm Doing Sealing Work: Eric Dahl (METCO) | Date of Abandonment: 9/19/2012

Signature of Person Doing Work | Date Signed: 10/3/12

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

City, State, Zip Code: LaCrosse WI 54603-

FOR DNR OR COUNTY 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

10-22 20 13

CUSTOMER

ADAM BACHAM % Metco
709 Gillette ST
La Crosse WI 54603

JOB NAME

Smith's Union 76
11427 S Business Hwy 53
Eau Claire WI

☐ CASH ☐ CHECK # _____ ☒ IN-HOUSE ACCOUNT

QUANTITY DATE	QUANTITY SHIPPED	DESCRIPTION	QTY.	UNIT PRICE	AMOUNT
	1	Mobilization	1	274 -	274 -
	5	Haul soil drums to Advanced Disposal	5	103 -	515 -
	4	Haul water drums to Advanced Disposal	4	40 10	160 40
				TOTAL	949 40

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

SIGNATURE _____

73

Waste Disposal
Reviewed 10/22/13
OK

APPENDIX E/ OTHER DOCUMENTATION

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

Abbreviations:

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

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

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

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

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

PCBs - Polychlorinated Biphenyls

Pb - Lead

SYNERGY ENVIRONMENTAL LAB – Sample Bottle Requirements

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

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

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

SYNERGY ENVIRONMENTAL LAB – Sample Bottle Requirements

TABLE 2
SAMPLE & PRESERVATION REQUIREMENTS FOR SOIL SAMPLES

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

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

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

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

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

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

Site Name:

Sample ID:

Contaminant	CAS Number	Ic RCL (mg/kg)	Csat (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	INPUT Site Data (mg/kg)	Risk if 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	-	0.36	0.36	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					

Comparison / Hazard Index / Cumulative Cancer Risk

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!

DRAFT

Residual Contaminant Levels Protective of Groundwater Quality

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

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF --> 2.00	INPUT NUMERIC Site Data Max (mg/kg)	Flag if 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; Bacteria; 1,3-DCB; Hydrogen Sulfide; Nitrate/Nitrite; Tetrahydrofuran; Perchlorate.

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

DRAFT

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

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF --> 2.00	INPUT NUMERIC Site Data Max (mg/kg)	Flag E = Individual Exceedance!	*Type BRRTS No. Here (If Known). Assess groundwater levels separately.*
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				

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

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

Site-specific

Resident Equation Inputs for Soil

Variable	Value
TR (target cancer risk) unitless	1.0E-6
ED_r (exposure duration - resident) year	30
ET_{re} (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

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$_{ws}$ (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

Resident Screening Levels (RSL) for Soil

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

Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF ($(mg/kg\text{-}day)^{-1}$)	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
Benzene	71-43-2	No	Yes	5.50E-02	I	7.80E-06	I	4.00E-03	I	3.00E-02	I	1	-	1
Cadmium (Diet)	7440-43-9	No	No	-		1.80E-03	I	1.00E-03	I	1.00E-05	A	0.025	0.001	1
Carbon Tetrachloride	56-23-5	No	Yes	7.00E-02	I	6.00E-06	I	4.00E-03	I	1.00E-01	I	1	-	1
Dibromoethane, 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
Dichloroethane, 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
Dichloroethylene, 1,1-	75-35-4	No	Yes	-		-		5.00E-02	I	2.00E-01	I	1	-	1
Dichloroethylene, 1,2-cis-	156-59-2	No	Yes	-		-		2.00E-03	I	-		1	-	1
Dichloroethylene, 1,2-trans-	156-60-5	No	Yes	-		-		2.00E-02	I	6.00E-02	P	1	-	1
Ethylbenzene	100-41-4	No	Yes	1.10E-02	C	2.50E-06	C	1.00E-01	I	1.00E+00	I	1	-	1
Lead and Compounds	7439-92-1	No	No	-		-		-		-		1	-	1
Methyl 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	1
Naphthalene	91-20-3	No	Yes	-		3.40E-05	C	2.00E-02	I	3.00E-03	I	1	0.13	1

Site-specific

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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-	7.11E+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-	3.88E+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

Site-specific

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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-	-	-	-	-	-	4.31E-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	3.36E+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	5.15E+00 ca*

Output generated 19DEC2013:11:10:03

Site-specific

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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
Nitropyrene, 4-	57835-92-4	No	No	1.20E+00	C	1.10E-04	C	-		-		1	0.13	1
Pyrene	129-00-0	No	Yes	-		-		3.00E-02	I	-		1	0.13	1
Tetrachloroethylene	127-18-4	No	Yes	2.10E-03	I	2.60E-07	I	6.00E-03	I	4.00E-02	I	1	-	1
Toluene	108-88-3	No	Yes	-		-		8.00E-02	I	5.00E+00	I	1	-	1
Trichloroethane, 1,1,1-	71-55-6	No	Yes	-		-		2.00E+00	I	5.00E+00	I	1	-	1
Trichloroethylene	79-01-6	Yes	Yes	4.60E-02	I	4.10E-06	I	5.00E-04	I	2.00E-03	I	1	-	1
Trimethylbenzene, 1,2,4-	95-63-6	No	Yes	-		-		-		7.00E-03	P	1	-	1
Trimethylbenzene, 1,3,5-	108-67-8	No	Yes	-		-		1.00E-02	X	-		1	-	1
Vinyl Chloride	75-01-4	Yes	Yes	7.20E-01	I	4.40E-06	I	3.00E-03	I	1.00E-01	I	1	-	1
Xylenes	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

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	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 sat
Trichloroethane, 1,1,1-	1.23E+04	1.46E+06	-	1.34E+04	1.32E+04	1.23E+04 sat
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 sat
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 sat

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

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

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 I 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

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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

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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

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Table 1 – Continued
Public Health Groundwater Quality Standards

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

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

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

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

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

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

[6] Xylene includes meta–, ortho–, and para–xylene combined.

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

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

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

Table 2
Public Welfare Groundwater Quality Standards

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

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

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

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

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

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

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

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

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

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

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

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

Smith's Union 76 Station
Slug Test Calculations

MW-1

	ft/s	cm/s	m/yr
K	2.17E-04	6.61E-03	2085.84
	sq ft/s	**sq cm/s**	
T	1.38E-03	1.28E+00	

MW-3

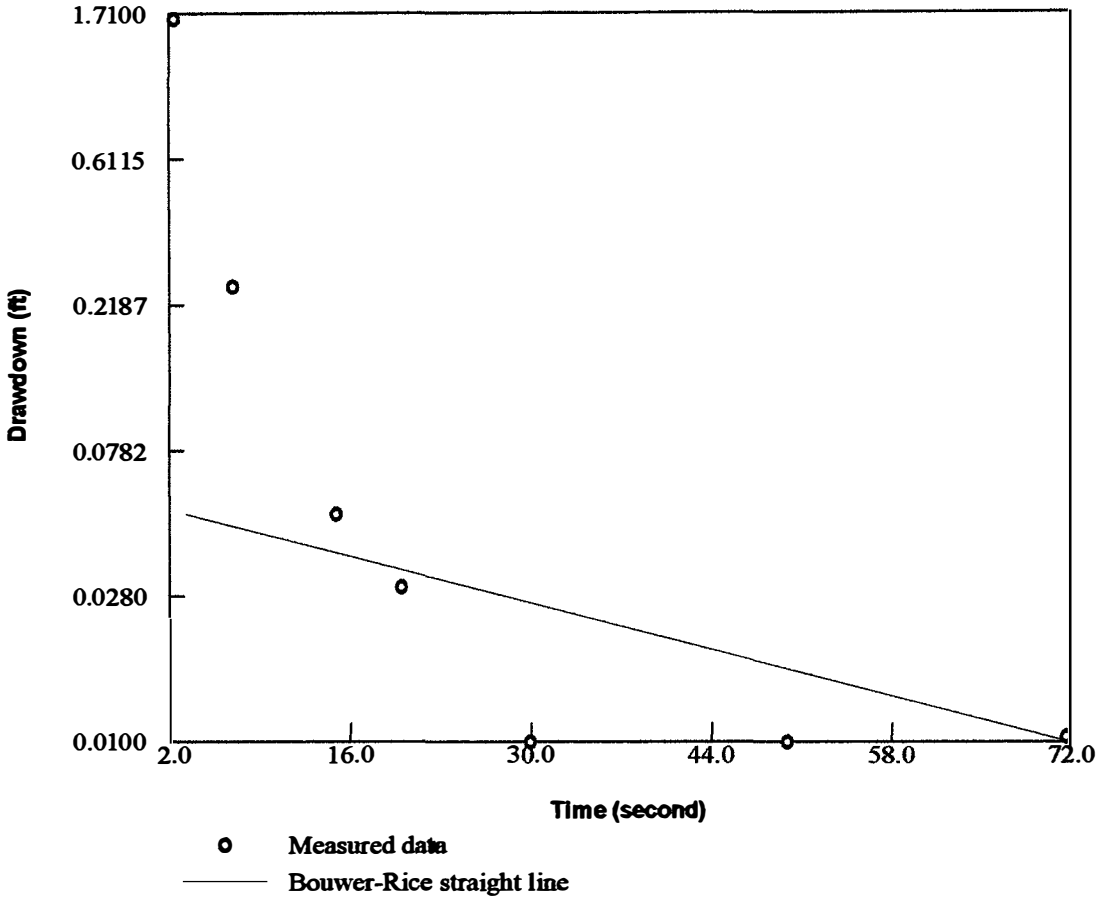
	ft/s	cm/s	m/yr
K	2.03E-05	6.19E-04	195.13
	sq ft/s	**sq cm/s**	
T	1.49E-04	1.38E-01	

MW-5

	ft/s	cm/s	m/yr
K	5.77E-06	1.76E-04	55.46
	sq ft/s	**sq cm/s**	
T	3.98E-05	3.70E-02	

Date	Elv. (High)	Elv. (Low)	Distance (ft)	Hyd Grad (I)
10/2/2012	1062.75	1061.25	92	0.0163043
11/7/2013	1062.50	1059.00	242	0.0144628
2/19/2014	1062.00	1060.00	179	0.0111732
5/21/2014	1063.50	1060.00	246	0.0142276
Average				0.0140420

	K (m/yr)	I	n	Flow Velocity (m/yr)
MW-1	2085.84	0.0140420	0.3	97.63122
MW-3	195.13	0.0140420	0.3	9.13338
MW-5	55.46	0.0140420	0.3	2.59590



Aquifer Parameters by the Bouwer and Rice Slug Test	
Hydraulic Conductivity (ft/s):	2.17e-004
Transmissivity (sq ft/s):	1.38e-003

Smith's Union 76 Station MW-1 Slug Out

Smith's Union 76 Station
Slug Out MW-1
SE20 0
Environmeal Logger
04/21 1 8:25

Unit# 281 Test 15

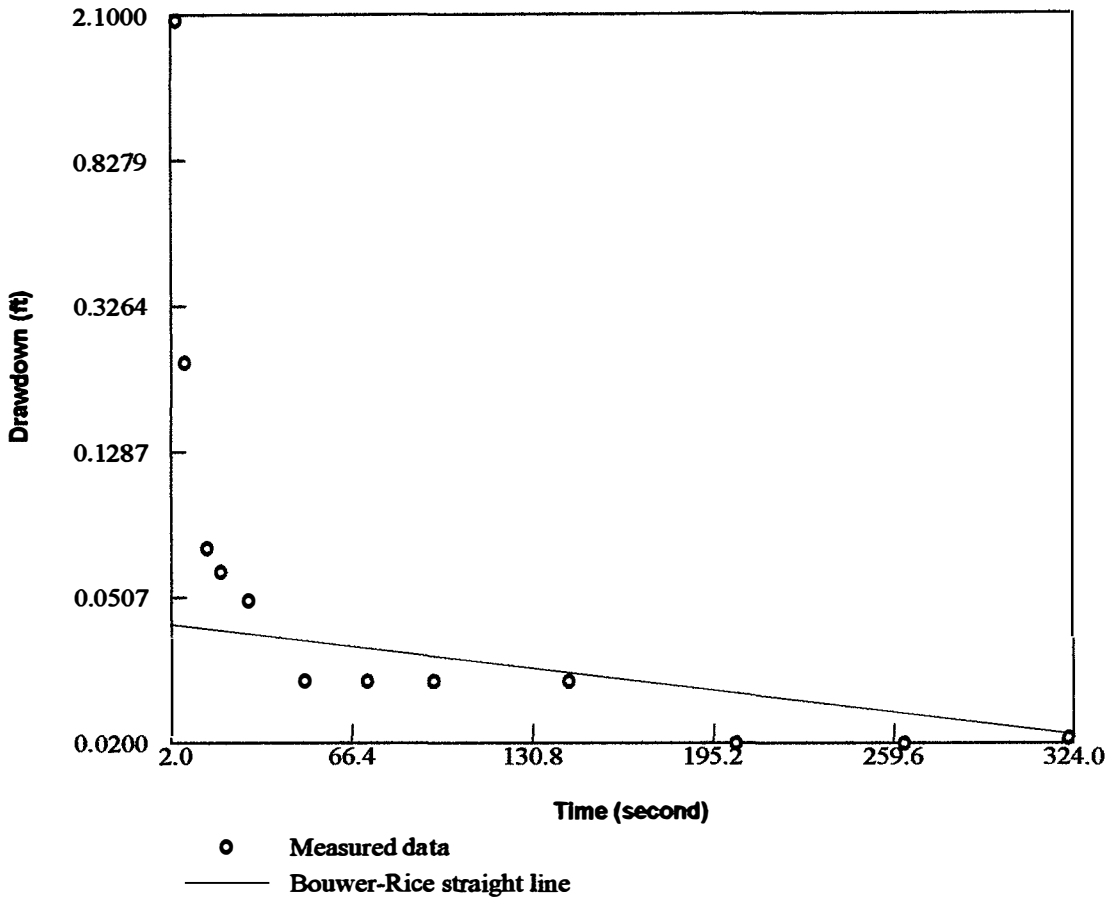
Setups:	INPUT 1
Type	Level (F)
Mode	TOC
I.D.	
Reference	14.65
PSI at Ref.	2.41
SG	1
Linearity	0
Scale facto	10.01
Offset	-0.01
Delay mSE(	50

Step 0 04/ 5:34:42

Elapsed TinINPUT 1		Time (s)	Drawdown
0	14.64	0	-0.01
0.01	14.64	0.5	-0.01
0.02	14.63	1	-0.02
0.03	17.88	1.5	3.23
0.03	16.36	2	1.71
0.04	16.3	2.5	1.65
0.05	15.97	3	1.32
0.06	15.7	3.5	1.05
0.07	15.48	4	0.83
0.08	15.31	4.5	0.66
0.08	15.17	5	0.52
0.09	15.08	5.5	0.43
0.1	15	6	0.35
0.11	14.94	6.5	0.29
0.12	14.9	7	0.25
0.13	14.86	7.5	0.21
0.13	14.84	8	0.19
0.14	14.82	8.5	0.17
0.15	14.8	9	0.15
0.16	14.78	9.5	0.13
0.17	14.77	10	0.12
0.18	14.76	10.5	0.11
0.18	14.75	11	0.1
0.19	14.74	11.5	0.09
0.2	14.73	12	0.08
0.21	14.73	12.5	0.07
0.22	14.72	13	0.07

0.23	14.72	13.5	0.07
0.23	14.71	14	0.06
0.24	14.71	14.5	0.06
0.25	14.7	15	0.05
0.26	14.7	15.5	0.05
0.27	14.7	16	0.05
0.28	14.69	16.5	0.04
0.28	14.69	17	0.04
0.29	14.69	17.5	0.04
0.3	14.68	18	0.03
0.31	14.68	18.5	0.03
0.32	14.68	19	0.03
0.33	14.68	19.5	0.03
0.33	14.68	20	0.03
0.35	14.67	21	0.02
0.37	14.67	22	0.02
0.38	14.67	23	0.02
0.4	14.67	24	0.01
0.42	14.67	25	0.01
0.43	14.66	26	0.01
0.45	14.66	27	0.01
0.47	14.66	28	0.01
0.48	14.66	29	0.01
0.5	14.66	30	0.01
0.52	14.66	31	0.01
0.53	14.66	32	0.01
0.55	14.66	33	0.01
0.57	14.65	34	0
0.58	14.66	35	0.01
0.6	14.65	36	0
0.62	14.65	37	0
0.63	14.65	38	0
0.65	14.65	39	0
0.67	14.65	40	0
0.68	14.65	41	0
0.7	14.65	42	0
0.72	14.65	43	0
0.73	14.65	44	0
0.75	14.65	45	0
0.77	14.65	46	0
0.78	14.65	47	0
0.8	14.65	48	0
0.82	14.65	49	0
0.83	14.66	50	0.01
0.85	14.66	51	0.01
0.87	14.66	52	0.01
0.88	14.66	53	0.01
0.9	14.66	54	0.01
0.92	14.66	55	0.01
0.93	14.66	56	0.01
0.95	14.66	57	0.01
0.97	14.66	58	0.01
0.98	14.66	59	0.01

1	14.66	60	0.01
1.2	14.66	72	0.01
1.4	14.64	84	-0.01
1.6	14.65	96	0
1.8	14.65	108	0
2	14.64	120	-0.01
2.2	14.65	132	0
2.4	14.66	144	0.01
2.6	14.64	156	-0.01
2.8	14.64	168	-0.01
3	14.65	180	0
3.2	14.65	192	0
3.4	14.65	204	0
3.6	14.64	216	-0.01
3.8	14.64	228	-0.01
4	14.64	240	-0.01
4.2	14.64	252	-0.01
4.4	14.65	264	0
4.6	14.65	276	0
4.8	14.65	288	0
5	14.65	300	0
5.2	14.64	312	-0.01
5.4	14.65	324	0
5.6	14.65	336	0
5.8	14.64	348	-0.01
6	14.65	360	0
6.2	14.66	372	0.01
6.4	14.65	384	0
6.6	14.64	396	-0.01
6.8	14.65	408	0
7	14.65	420	0
7.2	14.65	432	0
7.4	14.64	444	-0.01
7.6	14.64	456	-0.01
7.8	14.64	468	-0.01
8	14.64	480	-0.01
8.2	14.64	492	-0.01
8.4	14.64	504	-0.01
8.6	14.65	516	0
8.8	14.65	528	0
9	14.64	540	-0.01
9.2	14.65	552	0
9.4	14.65	564	0
9.6	14.64	576	-0.01
9.8	14.65	588	0
10	14.64	600	-0.01
11	14.65	660	0



Aquifer Parameters by the Bouwer and Rice Slug Test	
Hydraulic Conductivity (ft/s):	2.03e-005
Transmissivity (sq ft/s):	1.49e-004

Smith's Union 76 Station MW-3 Slug Out

Smith's Union 76 Station
Slug Out MW-3
SE20 0
Environmeal Logger
04/21 1 8:16

Unit# 281 Test 9

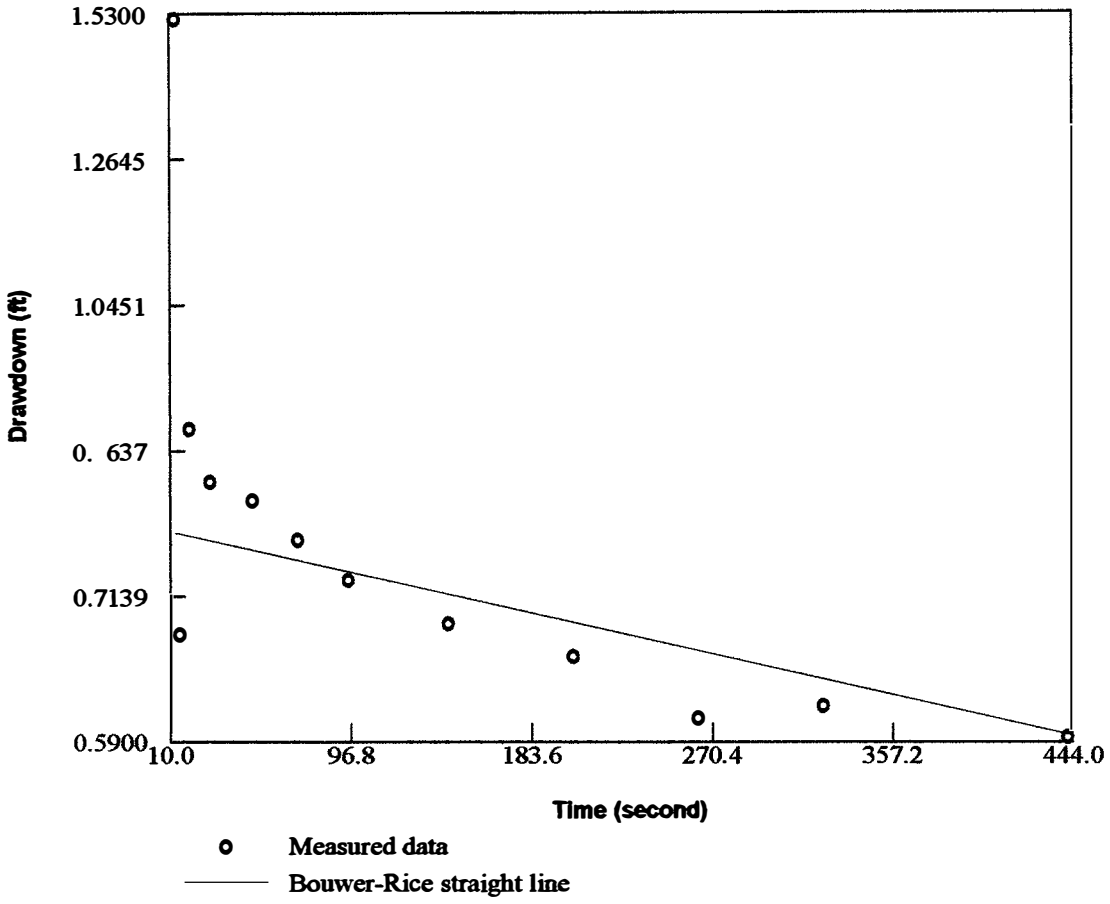
Setups:	INPUT 1
Type	Level (F)
Mode	TOC
I.D.	
Reference	13.63
PSI at Ref.	2.75
SG	1
Linearity	0
Scale facto	10.01
Offset	-0.01
Delay mSE(	50

Step 0 04/ 4:14:06

Elapsed Tir	INPUT 1	Time (s)	Drawdown
0	13.64	0	0.01
0.01	13.64	0.5	0.01
0.02	13.64	1	0.01
0.03	17.4	1.5	3.77
0.03	15.73	2	2.1
0.04	15.29	2.5	1.66
0.05	14.98	3	1.35
0.06	14.75	3.5	1.12
0.07	14.55	4	0.92
0.08	14.36	4.5	0.73
0.08	14.22	5	0.59
0.09	14.09	5.5	0.46
0.1	14	6	0.37
0.11	13.92	6.5	0.29
0.12	13.86	7	0.23
0.13	13.83	7.5	0.19
0.13	13.8	8	0.17
0.14	13.78	8.5	0.15
0.15	13.76	9	0.13
0.16	13.75	9.5	0.12
0.17	13.74	10	0.11
0.18	13.73	10.5	0.1

0.18	13.72	11	0.09
0.19	13.72	11.5	0.09
0.2	13.72	12	0.09
0.21	13.72	12.5	0.08
0.22	13.71	13	0.08
0.23	13.71	13.5	0.08
0.23	13.71	14	0.07
0.24	13.7	14.5	0.07
0.25	13.7	15	0.07
0.26	13.7	15.5	0.07
0.27	13.7	16	0.07
0.28	13.7	16.5	0.07
0.28	13.7	17	0.07
0.29	13.69	17.5	0.06
0.3	13.69	18	0.06
0.31	13.69	18.5	0.06
0.32	13.69	19	0.06
0.33	13.69	19.5	0.06
0.33	13.69	20	0.06
0.35	13.69	21	0.06
0.37	13.68	22	0.05
0.38	13.68	23	0.05
0.4	13.68	24	0.05
0.42	13.68	25	0.05
0.43	13.68	26	0.05
0.45	13.68	27	0.05
0.47	13.68	28	0.05
0.48	13.67	29	0.04
0.5	13.68	30	0.05
0.52	13.67	31	0.04
0.53	13.67	32	0.04
0.55	13.67	33	0.04
0.57	13.67	34	0.04
0.58	13.67	35	0.04
0.6	13.67	36	0.04
0.62	13.67	37	0.04
0.63	13.67	38	0.04
0.65	13.67	39	0.04
0.67	13.67	40	0.04
0.68	13.67	41	0.04
0.7	13.67	42	0.04
0.72	13.67	43	0.04
0.73	13.66	44	0.03
0.75	13.66	45	0.03
0.77	13.66	46	0.03
0.78	13.66	47	0.03
0.8	13.66	48	0.03
0.82	13.66	49	0.03

0.83	13.66	50	0.03
0.85	13.66	51	0.03
0.87	13.66	52	0.03
0.88	13.66	53	0.03
0.9	13.66	54	0.03
0.92	13.66	55	0.03
0.93	13.66	56	0.03
0.95	13.66	57	0.03
0.97	13.66	58	0.03
0.98	13.66	59	0.03
1	13.66	60	0.03
1.2	13.66	72	0.03
1.4	13.66	84	0.03
1.6	13.66	96	0.03
1.8	13.66	108	0.03
2	13.66	120	0.03
2.2	13.66	132	0.02
2.4	13.66	144	0.03
2.6	13.66	156	0.03
2.8	13.66	168	0.02
3	13.66	180	0.03
3.2	13.66	192	0.02
3.4	13.66	204	0.02
3.6	13.66	216	0.03
3.8	13.66	228	0.03
4	13.66	240	0.02
4.2	13.66	252	0.03
4.4	13.66	264	0.02
4.6	13.66	276	0.02
4.8	13.66	288	0.02
5	13.66	300	0.02
5.2	13.66	312	0.02
5.4	13.66	324	0.02
5.6	13.66	336	0.02
5.8	13.66	348	0.02
6	13.66	360	0.03
6.2	13.66	372	0.02
6.4	13.66	384	0.02
6.6	13.66	396	0.02
6.8	13.66	408	0.02



Aquifer Parameters by the Bouwer and Rice Slug Test	
Hydraulic Conductivity (ft/s):	5.77e-006
Transmissivity (sq ft/s):	3.98e-005

Smith's Union 76 Station MW-5 Slug In

Smith's Union 76 Station
Slug In MW-5
SE20 0
Environmeal Logger
04/21 1 8:20

Unit# 281 Test 12

Setups: INPUT 1
---------- ---------
Type Level (F)
Mode TOC
I.D.

Reference 13.11
PSI at Ref. 2.65
SG 1
Linearity 0
Scale facto 10.01
Offset -0.01
Delay mSE(50

Step 0 04/ 4:50:11

Elapsed Tir INPUT 1

		Time (s)	Drawdown
0	13.07	0	0.56
0.01	13.08	0.5	0.56
0.02	13.08	1	0.56
0.03	13.08	1.5	0.56
0.03	13.08	2	0.56
0.04	13.08	2.5	0.56
0.05	13.08	3	0.56
0.06	13.07	3.5	0.56
0.07	13.08	4	0.55
0.08	13.08	4.5	0.56
0.08	13.08	5	0.56
0.09	13.07	5.5	0.56
0.1	13.08	6	0.56
0.11	13.08	6.5	0.55
0.12	13.07	7	0.57
0.13	13.07	7.5	0.57
0.13	13.07	8	0.57
0.14	13.06	8.5	0.57
0.15	13.6	9	0.03
0.16	12.27	9.5	1.36
0.17	12.1	10	1.53
0.18	12.27	10.5	1.36

0.18	12.89	11	0.75
0.19	12.37	11.5	1.26
0.2	12.28	12	1.35
0.21	12.43	12.5	1.2
0.22	12.61	13	1.02
0.23	12.62	13.5	1.01
0.23	12.7	14	0.93
0.24	12.67	14.5	0.96
0.25	12.96	15	0.68
0.26	12.1	15.5	1.53
0.27	13.41	16	0.22
0.28	12.54	16.5	1.09
0.28	12.72	17	0.91
0.29	12.72	17.5	0.91
0.3	12.72	18	0.91
0.31	12.72	18.5	0.91
0.32	12.73	19	0.9
0.33	12.73	19.5	0.9
0.33	12.74	20	0.89
0.35	12.75	21	0.88
0.37	12.76	22	0.87
0.38	12.76	23	0.87
0.4	12.77	24	0.86
0.42	12.78	25	0.86
0.43	12.78	26	0.85
0.45	12.79	27	0.84
0.47	12.79	28	0.84
0.48	12.79	29	0.84
0.5	12.8	30	0.83
0.52	12.8	31	0.83
0.53	12.8	32	0.83
0.55	12.8	33	0.83
0.57	12.8	34	0.83
0.58	12.81	35	0.82
0.6	12.81	36	0.82
0.62	12.81	37	0.82
0.63	12.81	38	0.82
0.65	12.81	39	0.82
0.67	12.81	40	0.82
0.68	12.82	41	0.81
0.7	12.82	42	0.81
0.72	12.82	43	0.81
0.73	12.81	44	0.82
0.75	12.82	45	0.81
0.77	12.82	46	0.81
0.78	12.82	47	0.81
0.8	12.82	48	0.81
0.82	12.83	49	0.81

0.83	12.83	50	0.81
0.85	12.83	51	0.8
0.87	12.83	52	0.8
0.88	12.83	53	0.8
0.9	12.83	54	0.8
0.92	12.84	55	0.8
0.93	12.84	56	0.79
0.95	12.84	57	0.79
0.97	12.84	58	0.79
0.98	12.84	59	0.79
1	12.84	60	0.79
1.2	12.86	72	0.77
1.4	12.88	84	0.75
1.6	12.9	96	0.73
1.8	12.93	108	0.7
2	12.93	120	0.7
2.2	12.94	132	0.69
2.4	12.95	144	0.69
2.6	12.96	156	0.68
2.8	12.96	168	0.67
3	12.97	180	0.66
3.2	12.97	192	0.66
3.4	12.97	204	0.66
3.6	12.98	216	0.65
3.8	12.99	228	0.64
4	13	240	0.63
4.2	13.02	252	0.62
4.4	13.02	264	0.61
4.6	13.02	276	0.61
4.8	13.02	288	0.61
5	13.02	300	0.62
5.2	13	312	0.63
5.4	13.02	324	0.62
5.6	13.03	336	0.6
5.8	13.03	348	0.6
6	13.03	360	0.6
6.2	13.02	372	0.61
6.4	13.02	384	0.61
6.6	13.03	396	0.6
6.8	13.04	408	0.59
7	13.04	420	0.59
7.2	13.03	432	0.6
7.4	13.04	444	0.59
7.6	13.04	456	0.59
7.8	13.04	468	0.59
8	13.04	480	0.59
8.2	13.03	492	0.6
8.4	13.03	504	0.6

8.6	13.03	516	0.6
8.8	13.02	528	0.61
9	13.02	540	0.61
9.2	13.03	552	0.6
9.4	13.03	564	0.6
9.6	13.03	576	0.6
9.8	13.04	588	0.59
10	13.04	600	0.59

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).
- Member of the Geological Society of America

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.

Brandon A. Walker

Professional Title

- Staff Scientist

Credentials

- Registered through the Wisconsin Department of Safety and Professional Services as a PECFA consultant (#1052577).

Education

Includes B.S. in Geography and a minor in Environmental Studies from the University of Wisconsin- La Crosse. Applicable courses successfully completed include Water Resources, Ecology, Climate Systems, Earth Science, Zoology, Fundamentals of Cartography, Interpretation of Aerial Photography, Global Issues, Urban Geography, Environmental Sociology, and Environmental Studies.

Work Experience

With METCO since April 2007 as a Staff Scientist. Duties have included: soil and groundwater sampling, operation and maintenance of remedial systems, geoprobe projects (oversight, direction, and sampling), site mapping, data reduction and analysis, and reporting.

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.

APPENDIX G/ STANDARD OF CARE

Site Investigation Report - METCO
Smith's Union 76 Station

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

9/15/14
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

9/15/14
Date