Site Investigation Report

Amberg Oil Tank Farm 511 1st Avenue W Menomonie, Wisconsin

August 14, 2018
By METCO
WDNR BRRTS #: 02-17-152462
PECFA Claim #: 54751-9999-11-A



This document was prepared by:

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August 14, 2018

BRRTS #: 02-17-152462 PECFA Claim #: 54751-9999-11-A

Jessica Amberg Estate of Steve Amberg 300 Ford Road #7 St. Louis Park, MN 55426

Dear Ms. Amberg,

Enclosed is our "Site Investigation Report" concerning the former Amberg Oil Tank Farm site at 511 1st Avenue W in Menomonie, 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.

It is the recommendation of METCO that this site be reviewed for the possibility of closure for the following reasons: 1) The extent and degree of petroleum contamination in soil and groundwater has been adequately defined. 2) Soil contamination exceeding the NR720 Non-Industrial Direct Contact RCLs values does not appear to be present at this site. 3) Free product had never been encountered at this site. 4) Only three groundwater samples (G-1-W, G-7-W, & G-9-W) showed NR140 Enforcement Standard exceedances, for Naphthalene and/or Trimethylbenzenes only and only one groundwater sample (G-1-W) showed a detect for Benzene. 5) Based on the receptor survey, groundwater contamination does not appear to pose a risk to any municipal or private wells, surface waters, or risk of contaminant migration along utility corridors. 6) Vapor intrusion does not appear to pose a risk to the on-site structures.

The Case Closure – GIS Registry Packet (NR4400-202) is also being submitted along with this report.

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

Sincerely,

Jason T. Powell Staff Scientist

C: Patrick Collins - WDNR

Ten T. Powell

EXECUTIVE SUMMARY

A bulk petroleum storage facility operated on the property from at least the 1930s until the1980s. The property has been vacant since the 1980s. In 1985, five above ground storage tanks (ASTs) were removed from the subject property. The ASTs consisted of two 6,000-gallon leaded gasoline, two 6,000-gallon fuel oil, and one 6,000-gallon diesel.

On April 13, 1995, Cedar Corporation conducted a Phase 1 Investigation for Hunt-Wesson Foods. During the Phase 1 Investigation, three soil borings (B-1, B-2, and B-3) were completed on the Amberg Oil property. Two soil samples were collected from each soil boring for laboratory analysis (DRO, GRO, VOC, Lead, and Cadmium). Petroleum compounds were detected in four of the soil samples and subsequently reported to the WDNR, who then required that a site investigation be conducted.

The site investigation consisted of a Geoprobe project. The results of the investigation clearly show that released petroleum products have impacted the local soil and groundwater. Results of the investigation are as follows:

- Geologic material in the area of investigation generally consists of
 - A very fine to coarse grained sand with varying amounts of gravel was encountered from ground surface to depths ranging from 7 to 10 feet bgs.
 - Weathered sandstone was encountered at depths ranging from 7 to 9.5 feet bgs and extending to 9 to 10 feet bgs.
- Competent sandstone bedrock appears to exist at depths ranging from 9 to 10 feet bgs based on the Geoprobe boring refusal depths.
- According to data collected from the Geoprobe project, the depth to groundwater appears to range from approximately 7.5 to 8 feet bgs depending on boring location. Based on data, for monitoring wells near the subject property, from the GIS Registry for the nearby closed Hunt Wesson MGP Coal Gas Plant Menomonie ERP site (BRRTS# 02-17-000328), the depth to groundwater appears to range from 6.75 to 15.73 feet bgs depending on well location and time of year.
- Monitoring wells were not installed as art of this site investigation. Based on data from the GIS
 Registry for the nearby closed Hunt Wesson MGP Coal Gas Plant Menomonie ERP site
 (BRRTS# 02-17-000328), the regional groundwater flow appears to be towards the west to
 slightly southwest.
- An area of unsaturated soil contamination, which exceeds the NR720 Groundwater RCL values exists in the area of the former bulk oil tanks, oil warehouse, and former loading area. This irregularly shaped area appears to measure up to 142 feet long, 56 feet wide, and up to 8 feet thick.
- Soil contamination exceeding the NR720 Non-Industrial Direct Contact RCL values does not appear to be present at this site.
- Dissolved phase contaminant plumes exceeding the NR140 ES and PAL have formed at the watertable in the area of the former loading area (G-1 & G-7) and in the area of the former bulk oil tanks (G-9) and have migrated toward the west. The plume in the area of the former loading

area is approximately 40 feet long and 32 feet wide and the plume in the area of the former bulk oil tanks is approximately 22 feet long and 22 feet wide.

- Based on the Geoprobe project groundwater analytical results, three groundwater samples (G-1-W, G-7-W, and G-9-W) currently show NR140 ES exceedances for petroleum compounds (PVOC's or Naphthalene). The other twelve groundwater samples currently either show no exceedances of the NR140 ES or PAL (G-2-W, G-3-W, G-4-W, G-6-W, & G-8-W) or show no detects (G-5-W, G-10-W through G-13-W, G-16-W, & G-18-W) for PVOC's or Naphthalene.
- Based on the receptor survey, groundwater contamination does not appear to pose a risk to any
 municipal or private wells. Vapor intrusion does not appear to pose a risk to the on-site
 structures. There does not appear to be any risk to any surface waters or risk of contaminant
 migration along utility corridors.
- According to the data collected during the investigation, it is the conclusion of METCO that
 under existing conditions and limitations, the extent and degree of petroleum contamination has
 been adequately defined in soil and groundwater to warrant a completed investigation as
 defined by the WDNR guidelines and regulations.

It is the recommendation of METCO that this site be reviewed for the possibility of closure for the following reasons: 1) The extent and degree of petroleum contamination in soil and groundwater has been adequately defined. 2) Soil contamination exceeding the NR720 Non-Industrial Direct Contact RCLs values does not appear to be present at this site. 3) Free product had never been encountered at this site. 4) Only three groundwater samples (G-1-W, G-7-W, & G-9-W) showed NR140 Enforcement Standard exceedances, for Naphthalene and/or Trimethylbenzenes only and only one groundwater sample (G-1-W) showed a detect for Benzene. 5) Based on the receptor survey, groundwater contamination does not appear to pose a risk to any municipal or private wells, surface waters, or risk of contaminant migration along utility corridors. 6) Vapor intrusion does not appear to pose a risk to the on-site structures.

The Case Closure - GIS Registry Packet (NR4400-202) is also being submitted along with this report.

LIST OF ACRONYMS

AST - Aboveground Storage Tank

ASTM - American Society for Testing and Materials

Cd - Cadmium

DOT - Department of Transportation

DRO - Diesel Range Organics

ES - Enforcement Standards

gpm - gallons per minute

GRO - Gasoline Range Organics

HNU - brand name for Photoionization Detector

ID - inside-diameter

LAST - Leaking Aboveground Storage Tank

LUST - Leaking Underground Storage Tank

MSL - Mean Sea Level

MTBE - Methyl-tert-butyl ether

MW - Monitoring Well

NIOSH - National Institute for Occupational Safety & Health

NR - Natural Resources

OD - outside-diameter

PAH - Polynuclear Aromatic Hydrocarbons

PAL - Preventive Action Limits

Pb - Lead

PECFA - Petroleum Environmental Cleanup Fund

PID - Photoionization Detector

POTW - Publicly Owned Treatment Works

ppb ug/kg - parts per billion

ppm mg/kg - parts per million

psi - pounds per square inch

PVC - Polyvinyl Chloride

PVOC - Petroleum Volatile Organic Compounds

RAP - Remedial Action Plan

scfm - standard cubic feet per minute

SVE - Soil Vapor Extraction

USCS - Unified Soil Classification System

USGS - United States Geological Survey

UST - Underground Storage Tank

VOC - Volatile Organic Compounds

WDNR - Wisconsin Department of Natural Resources

WPDES - Wisconsin Pollutant Discharge Elimination System

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1.0 INTRODUCTION AND BACKGROUND

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

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

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

1.1 Responsible Party Information

Jessica Amberg Estate of Steve Amberg 300 Ford Road #7 St. Louis Park, MN 55426 (612) 306-0377

1.2 Consultant Information

Consultant

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

Subcontractors

Geiss Soil & Samples, LLC E4490 Pope Road Merrill, WI 54452 (715) 539-3928 Synergy Environmental Lab 1990 Prospect Court Appleton, WI 54914 (920) 830-2455

1.3 Site Location

Site Address: 511 1st Avenue W Menomonie, Wisconsin

Please note, The WDNR BRRTS site incorrectly lists the address for the site as 503 1st Avenue W, which is the address for the adjacent property to the east. The address above is the correct site address.

Latitude and Longitude: 44° 52' 55" N and 91° 56' 6" W

WTM Coordinates: 367160, 491674

Please note, the WDNR RR Sites Map currently shows the location of this site on the neighboring property to the east.

Township/Range:

SE 1/4, NE 1/4, Section 27, Township 28 North, Range 13 West, Dunn County

1.4 Site History

A bulk petroleum storage facility operated on the property from at least the 1930s until the 1980s. The property has been vacant since the 1980s. In 1985, five above ground storage tanks (ASTs) were removed from the subject property. The ASTs consisted of two 6,000-gallon leaded gasoline, two 6,000-gallon fuel oil, and one 6,000-gallon diesel.

On April 13, 1995, Cedar Corporation conducted a Phase 1 Investigation for Hunt-Wesson Foods. During the Phase 1 Investigation, three soil borings (B-1, B-2, and B-3) were completed on the Amberg Oil property. Two soil samples were collected from each soil boring for laboratory analysis (DRO, GRO, VOC, Lead, and Cadmium). Petroleum compounds were detected in four of the soil samples and subsequently reported to the WDNR, who then required that a site investigation be conducted.

Numerous other LUST, ERP, and Spill sites exist within the City of Menomonie, the closest being the Hunt-Wesson MGP Coal Gas Plant – Menomonie site which is located immediately to the south across 1st Avenue W. The Hunt-Wesson MGP site was closed by the WDNR on April 29, 2008 with residual soil and groundwater contamination. Remaining contaminants at the Hunt-Wesson site include VOCs, PAHs, and Metals.

2.0 GEOLOGY AND RECEPTORS

2.1 Regional and Local Geology and Hydrogeology

Topography and Regional Setting

According to the USGS Hydrologic Atlas, Menomonie is located in the southwestern portion of the Chippewa River Basin. This area is characterized by flat topped and steep sided hills and deeply entrenched stream valleys with thick alluvial fill. Glacial drift is very thin except in valleys.

The elevation of the site is approximately 800 feet above Mean Sea Level (MSL). See Appendix A for site location.

Soil and Bedrock

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

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

- A tan to gray very fine to coarse grained sand with varying amounts of gravel was encountered from ground surface to depths ranging from 7 to 10 feet bgs.
- A tan to gray to red weathered sandstone was encountered at depths ranging from 7 to
 9.5 feet bgs and extending to 9 to 10 feet bgs.

Competent sandstone bedrock appears to exist at depths ranging from 9 to 10 feet bgs based on the Geoprobe boring refusal depths.

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 Geoprobe project, the depth to groundwater appears to range from approximately 7.5 to 8 feet bgs depending on boring location. Based on data, for monitoring wells near the subject property, from the GIS Registry for the nearby closed Hunt Wesson MGP Coal Gas Plant Menomonie ERP site (BRRTS# 02-17-000328), the depth to groundwater appears to range from 6.75 to 15.73 feet bgs depending on well location and time of year.

Monitoring wells were not installed as art of this site investigation. Based on data from the GIS Registry for the nearby closed Hunt Wesson MGP Coal Gas Plant Menomonie ERP site (BRRTS# 02-17-000328), the regional groundwater flow appears to be towards the west to slightly southwest.

A Groundwater Flow Direction Map from the closed Hunt Wesson MGP Coal Gas Plant Menomonie ERP site GIS Registry is presented in Section 6.

2.2 Receptors

Buildings, Basements, Sumps, and Utility Corridors

The extent of unsaturated soil contamination exceeding the NR720 Groundwater RCL values and groundwater contamination exceeding the NR140 Enforcement Standards and Preventive Action Limits extends beneath the on-site building. However, this structure is unoccupied and is elevated approximately 1-1.5 feet above the ground surface with a crawl space below the floor of the structure the area where the soil and groundwater contamination exists. Soil contamination in the area of the on-site structure exists at approximately 8 feet bgs and Benzene concentrations in groundwater in the area of the

building are below the NR140 Preventive Action Limit. Therefore, vapor intrusion into the onsite structure does not appear to be a risk at this site.

No utility lines are known to exist in the area of unsaturated soil contamination exceeding the NR720 RCL values or groundwater contamination exceeding the NR140 Enforcement Standards. One utility corridor (natural gas) appears to exist in the area of groundwater contamination exceeding the NR140 Preventive Action Limits. The exact depth of this utility line is not known; however, utility lines of this type are usually installed at depth less than 30 inches below ground surface. Based on this, it appears that this utility corridor is likely above the watertable and does not appear to be a preferential contaminant mitigation pathway.

Municipal and Private Water Supply Wells

The City of Menomonie has three active municipal wells which provide potable water throughout the city. The nearest municipal well is located 2,350 feet to the southeast of the subject property. There are seven permitted private wells within the city limits which are all used for non-potable purposes. The nearest private well is located approximately 3,600 feet to the west of the subject property.

Surface Waters

The nearest surface water is the Red Cedar River, which bounds the subject property to the northwest and is located between 40 and 100 feet west to northwest of the former bulk petroleum storage facility.

3.0 SITE INVESTIGATION RESULTS AND RISK CRITERIA

3.1 Methods of Investigation

Workscope

The workscope performed for the LUST Investigation included the following:

- 1) Collect site background information.
- 2) On February 6, 2017, METCO prepared a LUST Investigation Field Procedures Workplan.
- On May 15, 2017, METCO supervised the completion of eighteen Geoprobe borings.
 Fifty-two soil and fifteen groundwater samples were collected for field and/or laboratory analysis.

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 April 13, 1995, as part of a Phase 1 Environmental Site Assessment, three soil borings (B-1, B-2, & B-3) were completed with six soil samples collected for laboratory analysis (DRO, GRO, VOC, Cadmium, and Lead).

On May 15, 2017, during the Geoprobe project, eighteen Geoprobe borings (G-1 through G-18) with fifty-two soil samples collected for field and/or laboratory analysis (PID, VOC, PVOC, and/or Lead). One of the soil samples was also submitted for DRO, GRO, TCLP Benzene, and TCLP Lead analysis.

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

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

Groundwater Sampling Data

On May 15, 2017, as part of the Geoprobe project, groundwater samples were collected from fifteen Geoprobe borings (G-1 through G-13, G-16, & G-18) for laboratory analysis (PVOC and Naphthalene).

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

The Geoprobe boring locations are presented in the Detailed Site Map in Section 6. All data is presented in the data tables in Section 7. The lab reports are presented in Appendix B.

Laboratory Certification

Synergy Environmental Lab

Wisconsin Lab Certification #445037560

3.3 Permeability and Hydraulic Conductivity

Monitoring wells were not installed as part of this site investigation, however based on the soil boring logs, it appears that the watertable is located within a very fine to coarse grained sand with varying amounts of gravel. Book values for the hydraulic conductivity of sand range from 1X10⁻³ cm/sec to 1X10⁻¹ cm/sec. Based on April 9, 2003 Groundwater Flow Map for the nearby closed Hunt Wesson MGP Coal Gas Plant Menomonie ERP site (BRRTS# 02-17-000328), the hydraulic gradient for this site is approximately 8.57X10⁻². Using the

above values and assuming 30% porosity the groundwater flow velocity for this site appear to range from 90 to 9010 m/year for the unconsolidated materials.

3.4 Discussion of Results

Geologic material in the area of investigation generally consists of

- A very fine to coarse grained sand with varying amounts of gravel was encountered from ground surface to depths ranging from 7 to 9.5 feet bgs.
- Weathered sandstone was encountered at depths ranging from 7 to 9.5 feet bgs and extending to 9 to 10 feet bgs.

Competent sandstone bedrock appears to exist at depths ranging from 9 to 10 feet bgs based on the Geoprobe boring refusal depths.

According to data collected from the Geoprobe project, the depth to groundwater appears to range from approximately 7.5 to 8 feet bgs depending on boring location. Based on data for monitoring wells near the subject property from the GIS Registry for the nearby closed Hunt Wesson MGP Coal Gas Plant Menomonie ERP site (BRRTS# 02-17-000328), the depth to groundwater appears to range from 6.75 to 15.73 feet bgs depending on well location and time of year.

Monitoring wells were not installed as art of this site investigation. Based on data from the GIS Registry for the nearby closed Hunt Wesson MGP Coal Gas Plant Menomonie ERP site (BRRTS# 02-17-000328), the regional groundwater flow appears to be towards the west to slightly southwest.

An area of unsaturated soil contamination, which exceeds the NR720 Groundwater RCL values, exists in the area of the former bulk oil tanks, oil warehouse, and former loading area. This irregularly shaped area appears to measure up to 142 feet long, 56 feet wide, and up to 8 feet thick.

Soil contamination exceeding the NR720 Non-Industrial Direct Contact RCL values does not appear to be present at this site.

Dissolved phase contaminant plumes exceeding the NR140 ES and PAL have formed at the watertable in the area of the former loading area (G-1 & G-7) and in the area of the former bulk oil tanks (G-9) and have migrated toward the west. The plume in the area of the former loading area is approximately 40 feet long and 32 feet wide and the plume in the area of the former bulk oil tanks is approximately 22 feet long and 22 feet wide.

Based on the Geoprobe project groundwater analytical results, three groundwater samples (G-1-W, G-7-W, and G-9-W) currently show NR140 ES exceedances for petroleum compounds (PVOC's or Naphthalene). The other twelve groundwater samples currently either show no exceedances of the NR140 ES or PAL (G-2-W, G-3-W, G-4-W, G-6-W, & G-8-W) or show no detects (G-5-W, G-10-W through G-13-W, G-16-W, & G-18-W) for PVOC's or Naphthalene.

Based on the receptor survey, groundwater contamination does not appear to pose a risk to any municipal or private wells. Vapor intrusion does not appear to pose a risk to the on-site structures. There does not appear to be any risk to any surface waters or risk of contaminant migration along utility corridors.

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

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

3.5 Risk Assessment

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

- 1) Verified contaminant concentrations in a private or public potable well that exceeds the Preventive Action Limit established under Chapter, Stats. 160.
- 2) Petroleum product that is not in the dissolved phase (floating product) is present with a thickness of 0.01 feet or more, and verified by more than one sampling event.
- 3) An Enforcement Standard exceedance in groundwater within 1,000 feet of a well operated by a public utility, or within 100 feet of any other well used to provide water for human consumption.
- 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 Amberg Oil Tank Farm site is currently a "high risk" site, because of the NR140 Enforcement Standard exceedances in bedrock.

4.0 CONCLUSION

4.1 Investigation Summary

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

4.2 Recommendations

It is the recommendation of METCO that this site be reviewed for the possibility of closure for the following reasons: 1) The extent and degree of petroleum contamination in soil and groundwater has been adequately defined. 2) Soil contamination exceeding the NR720 Non-Industrial Direct Contact RCLs values does not appear to be present at this site. 3) Free product had never been encountered at this site. 4) Only three groundwater samples (G-1-W, G-7-W, & G-9-W) showed NR140 Enforcement Standard exceedances, for Naphthalene and/or Trimethylbenzenes only and only one groundwater sample (G-1-W) showed a detect for Benzene. 5) Based on the receptor survey, groundwater contamination

does not appear to pose a risk to any municipal or private wells, surface waters, or risk of contaminant migration along utility corridors. 6) Vapor intrusion does not appear to pose a risk to the on-site structures.

The Case Closure – GIS Registry Packet (NR4400-202) is also being submitted along with this report.

5.0 REFERENCES

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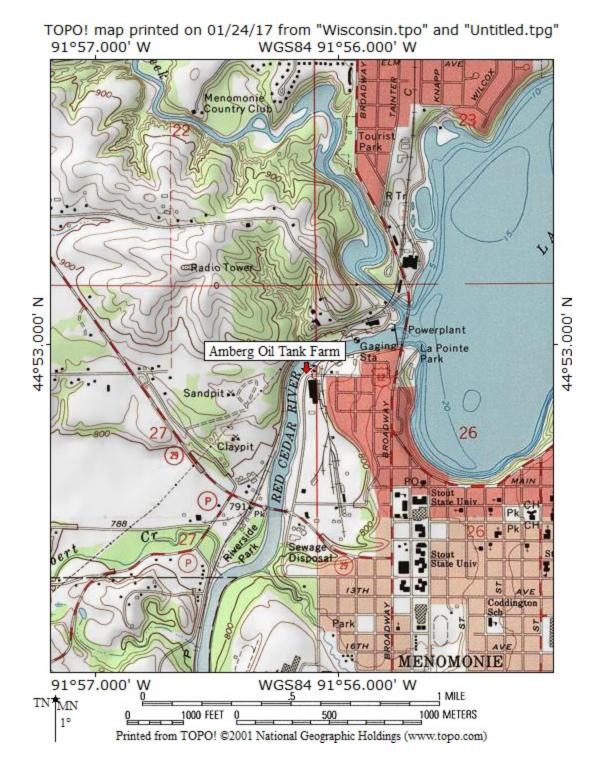
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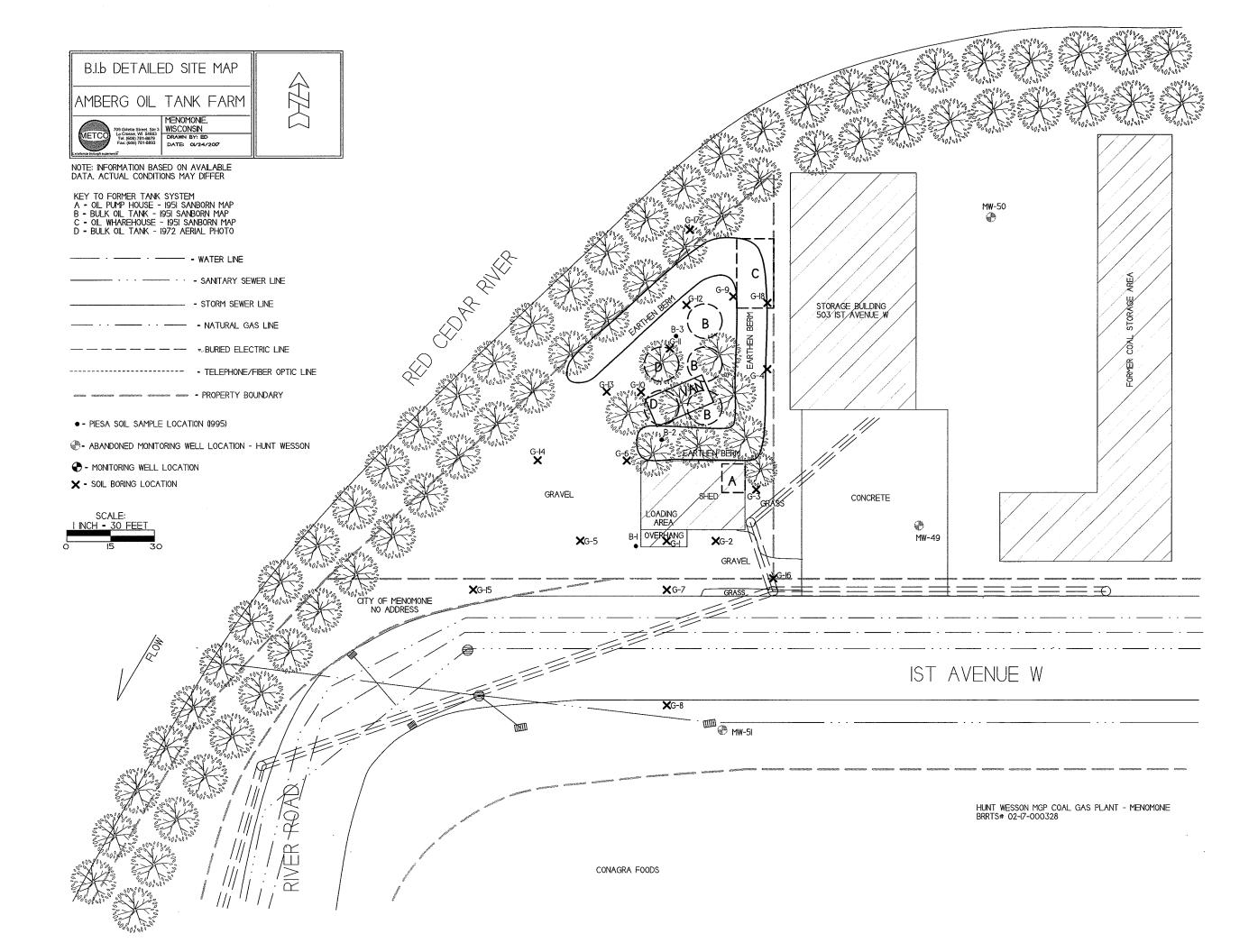
Young, H.L. and Hindall, S.M., 1972, Water Resources of Wisconsin – Chippewa River Basin, Hydrologic Investigations, Atlas HA-386, U.S. Geological Survey, Washington D.C.

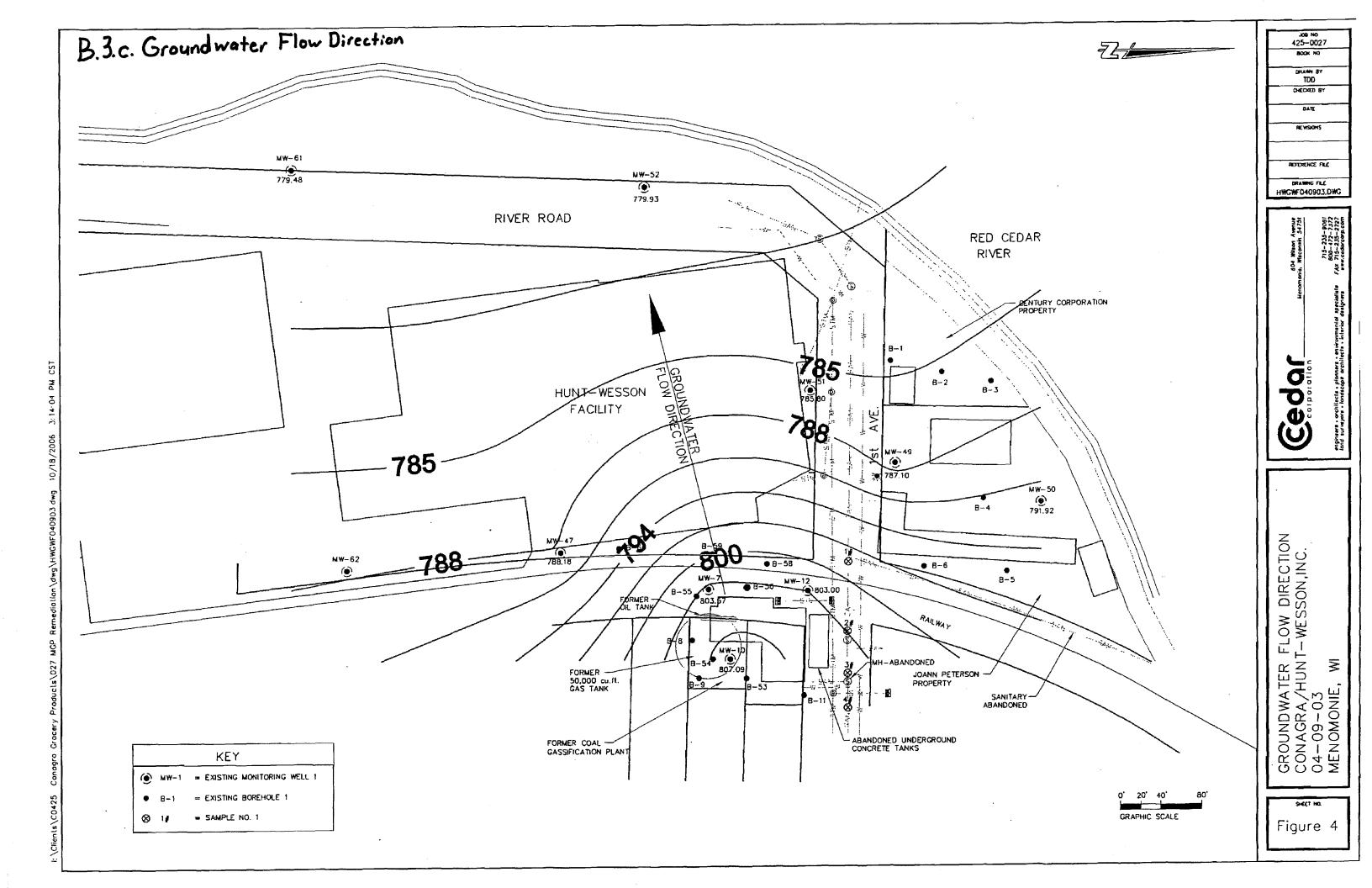
Other information and data was collected from Dunn County, City of Menomonie, Diggers Hotline, Geiss Soil & Samples, LLC, Synergy Environmental Lab, Wisconsin Department of Natural Resources, and local people.

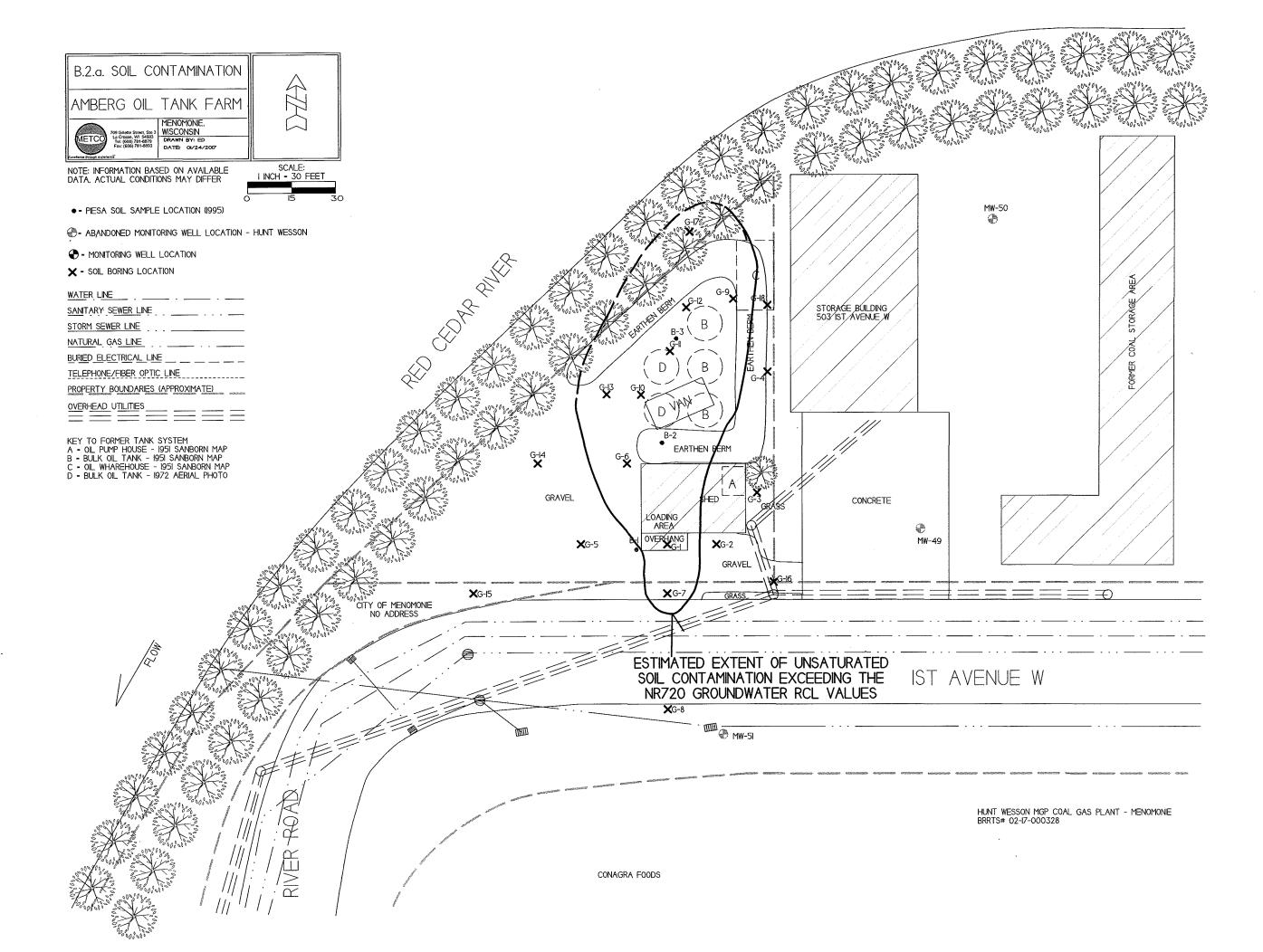
6.0 FIGURES

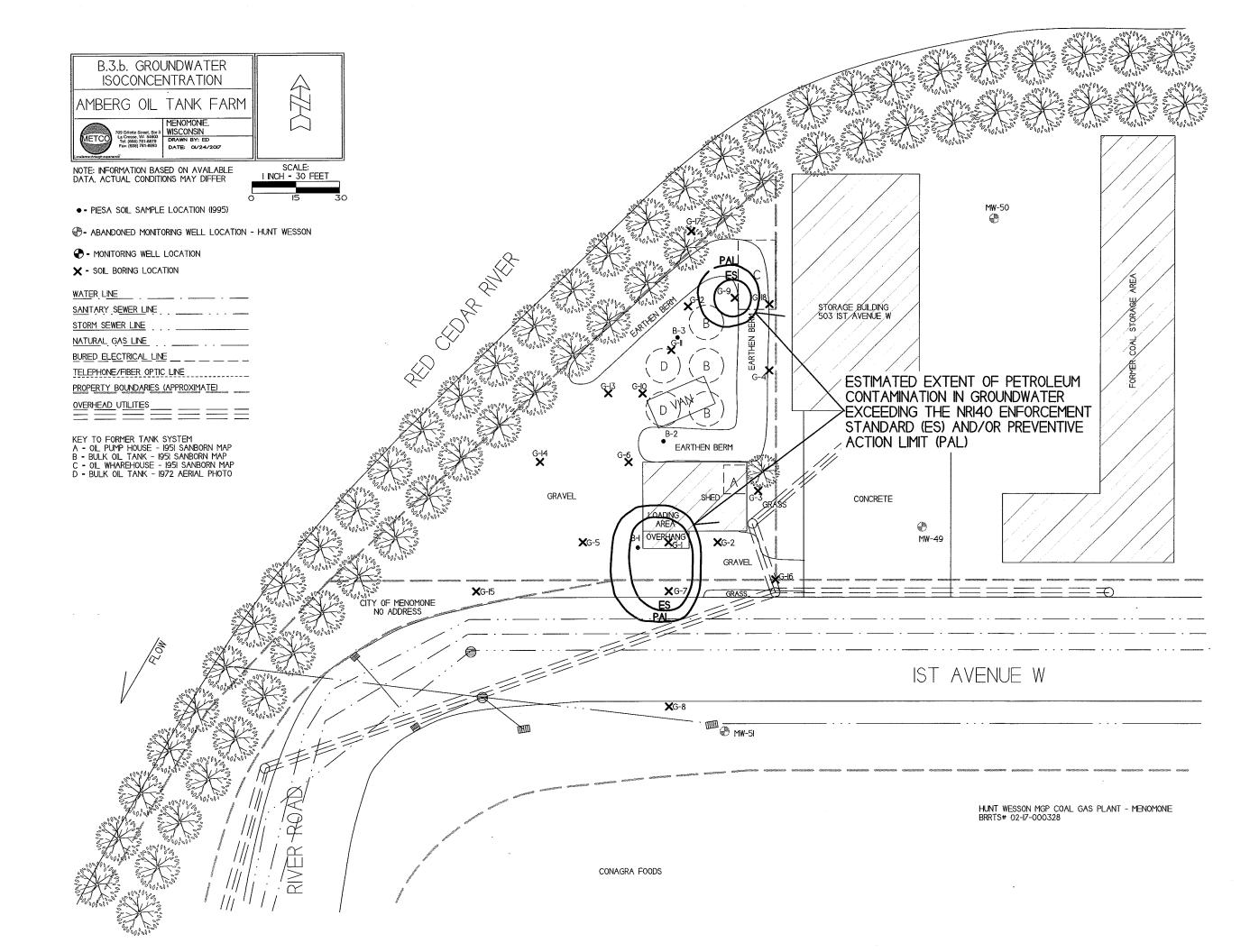


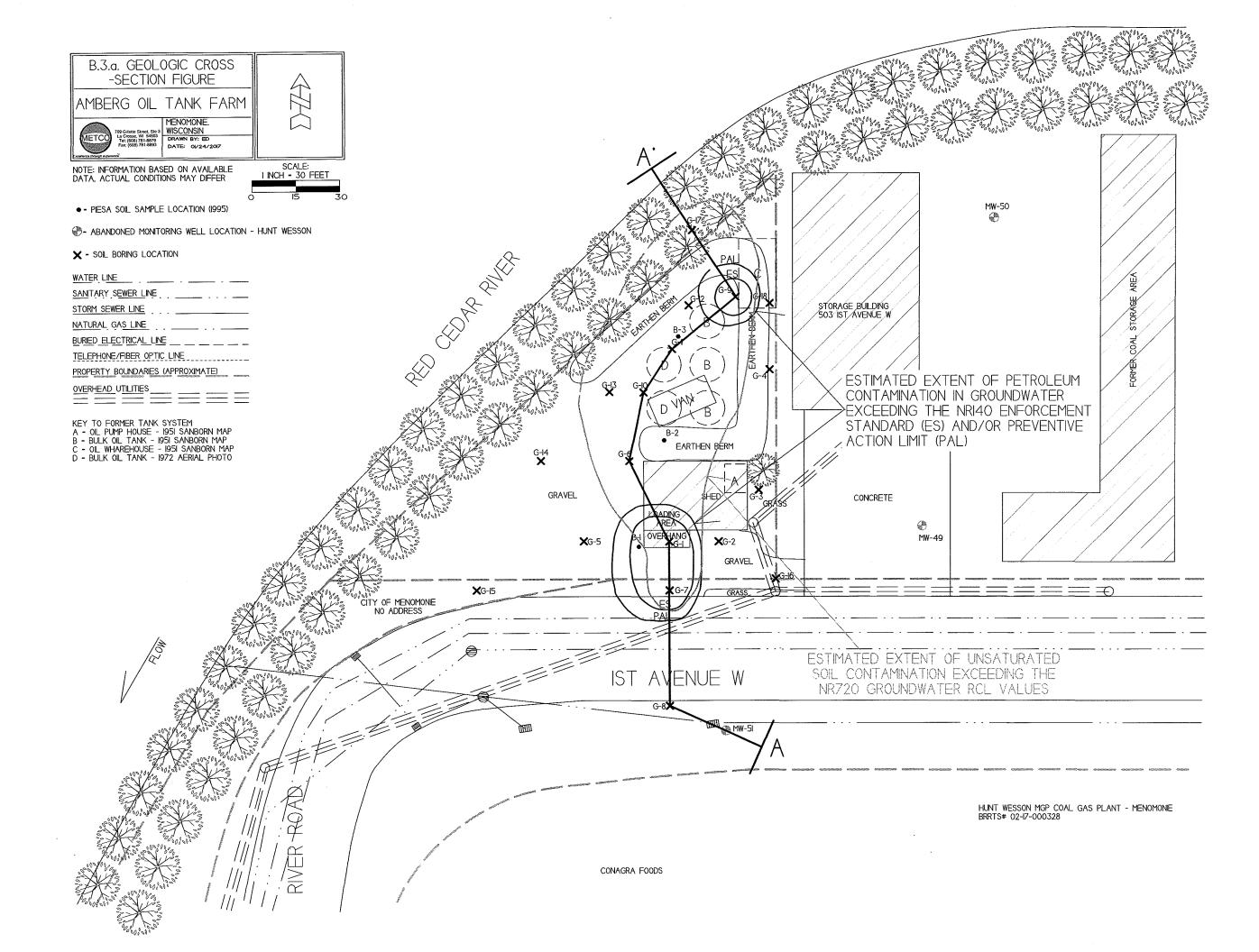
B.1.a LOCATION MAP CONTOUR INTERVAL 20 FEET AMBERG OIL TANK FARM – MENOMONIE, WI SEAMLESS USGS TOPOGRAPHIC MAPS ON CD-ROM

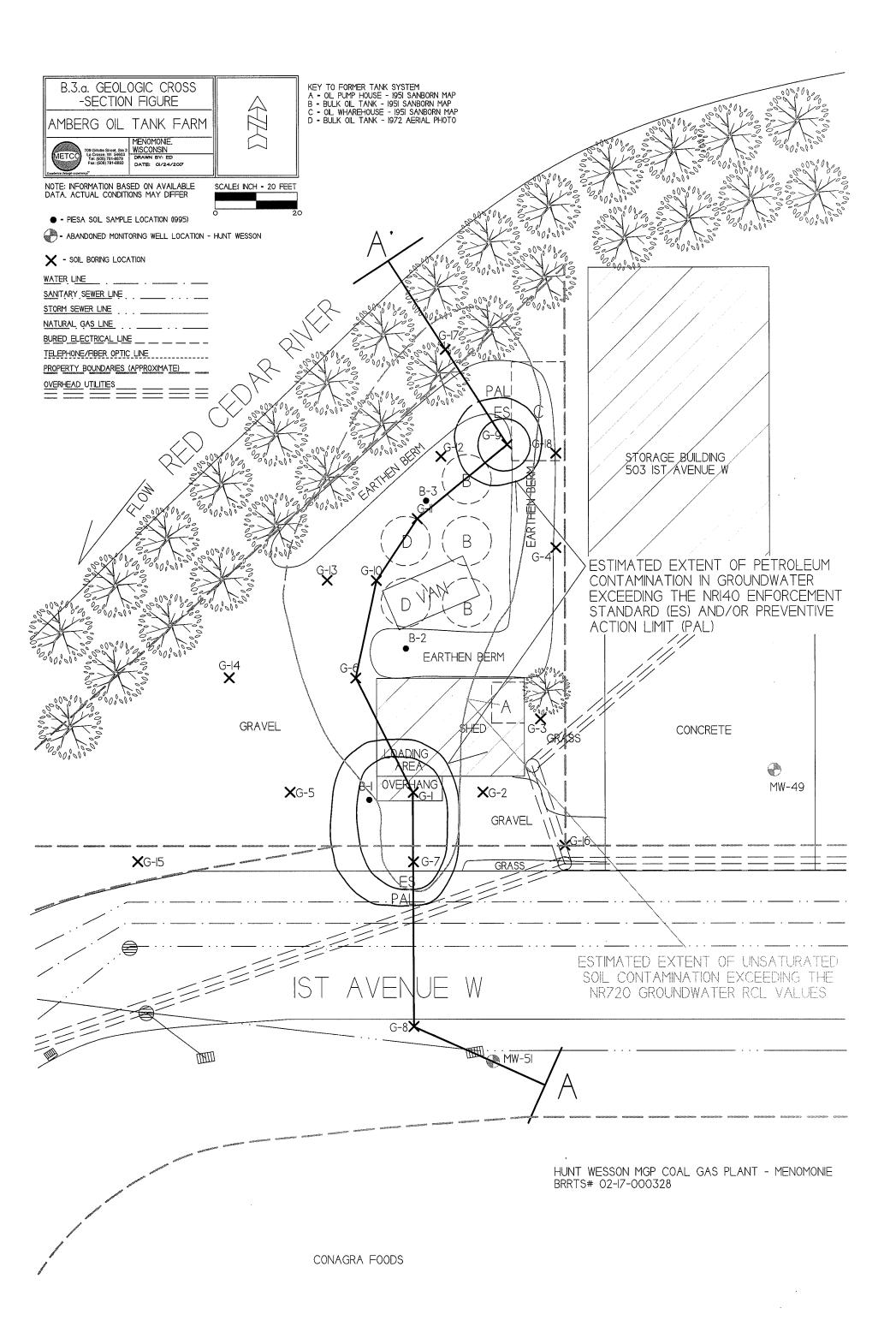


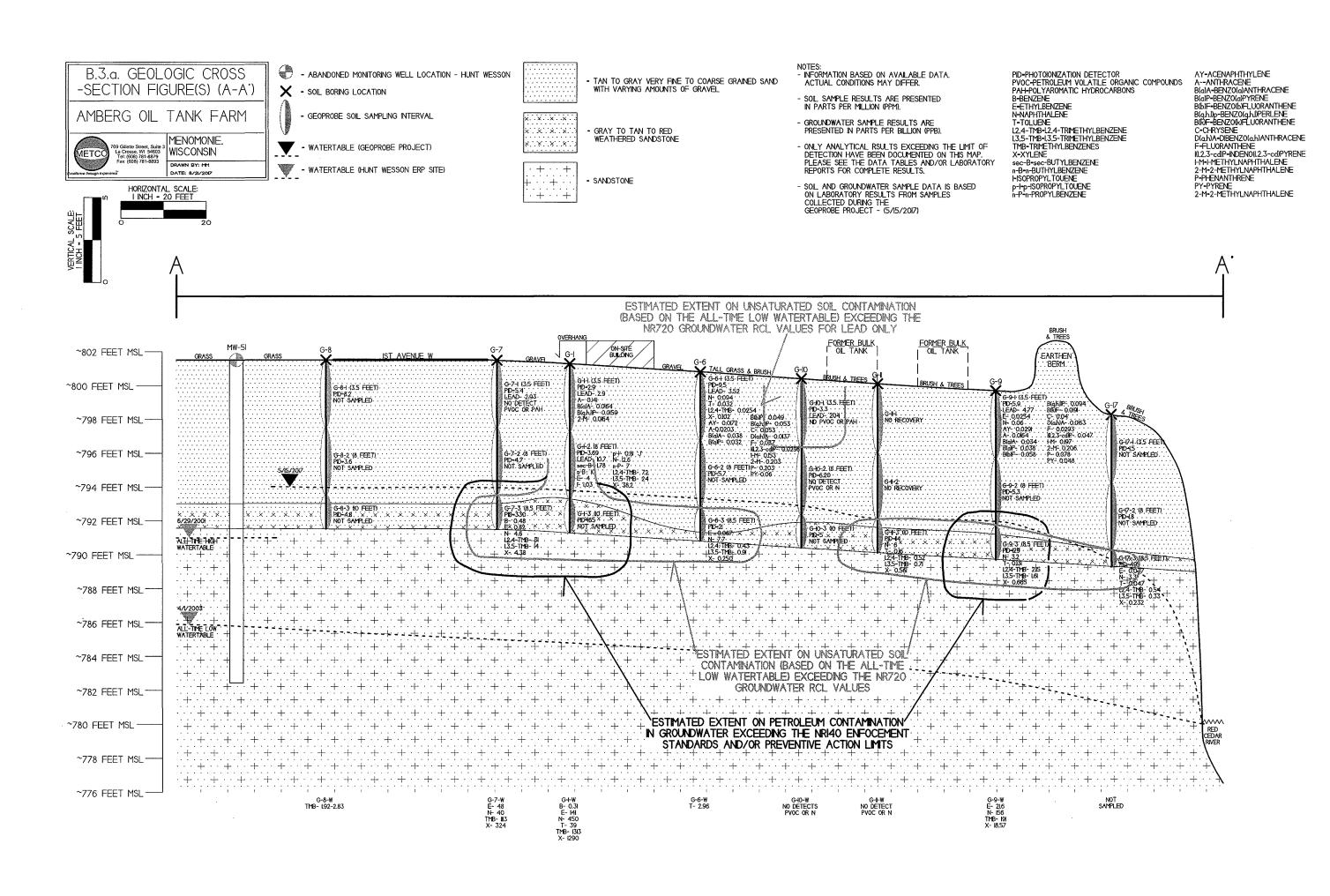












7.0 DATA TABLES, GRAPHS, AND STATISTICAL ANALYSIS

A.2 Soil Analytical Results Table Amberg Oil Tank Farm BRRTS #02-17-152462

			T = :					,			1	T	1	1 / A = = :	34.1	1 00 1/00/			AH COMBINE
Sample ID	Depth (feet)	Saturation U/S	Date	PID	Lead (ppm)	DRO (ppm)	GRO (ppm)	Benzene	Ethyl Benzene	MTBE	Naph- thalene	Toluene	1,2,4-Trime- thylbenzene	1,3,5-Trime- thylbenzene	Xylene (Total)	Other VOC's (ppb)	Exeedance	Hazard	Cumulativ Cancer
								(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)		Count	Index	Risk
B1	5-7	U	04/19/95	NM	12.5	<10	<10	<0.025	<0.025	NS	<0.050	<0.025	NS	NS	<0.025	SEE VOC SHEET			
B1	7.5-9.5	U	04/19/95	NM	8.8	<10	<10	<0.025	<0.025	NS	0.099	<0.025	NS	NS	<0.025	SEE VOC SHEET			
B2 B2	5-7 7.5-9.5	U	04/19/95	NM NM	5.3 7.1	220 860	<10 110	<0.025 <0.025	<0.025 <0.025	NS NS	<0.050 0.22	<0.025 <0.025	NS NS	NS NS	<0.025 <0.025	SEE VOC SHEET SEE VOC SHEET			
B3	5-7	- U	04/19/95	NM	6.2	54	<10	<0.025	<0.025	NS	<0.050	<0.025	NS	NS NS	<0.025	SEE VOC SHEET			
B3	7.5-9.5	J	04/19/95	NM	4.6	3200	46	<0.025	<0.025	NS	<0.050	<0.025	NS	NS	<0.025	SEE VOC SHEET			
G-1-1	3.5	J	05/15/17	2.90	2.46	NS	NS	<0.025	<0.025	<0.025	<0.0153	<0.025	<0.025	<0.025	<0.075	NS	0	0.0001	1.4E-0
G-1-2	8.0	U	05/15/17	369.00	10.7	364_	960	<0.030	4.0	<0.5	12.6	<0.32	72	24	38.2	TCLP LEAD <0.1 TCLP BENZENE <0.05 SEE VOC SHEET			
G-1-3	10.0	U	05/15/17	165.00		,			,		SAMPLED		y			NS			
G-2-1	3.5	U	05/15/17	1.10	2.31	NS	NS	<0.025	<0.025		<0.0153		<0.025	<0.025	<0.075	NS NS	0		
G-2-2 G-2-3	8.0 8.5	U	05/15/17	1.80 27.00	NS	NS	NS	<0.025	<0.025		SAMPLED 0.050	<0.025	0.050	0.032	<0.075	NS NS			
G-2-3 G-3-1	3.5	U	05/15/17	5.60	2.87	NS NS	NS	<0.025	<0.025	<0.025		<0.025	<0.025	<0.032	<0.075	NS NS	0		
G-3-1	7.0	υ	05/15/17	8.20	NS	NS	NS	<0.025	<0.025			<0.025	<0.025	<0.025	<0.075	NS NS	J		
G-3-3	9.0	Ü	05/15/17	10.40						NOT:	SAMPLED					NS			
G-4-1	3.5	U	05/15/17	12.30	2.74	NS	NS	<0.025	<0.025	<0.025	<0.0153	<0.025	<0.025	<0.025	<0.075	NS	0		
G-4-2	7.5	U	05/15/17	5.70	NS	NS	NS	<0.025	<0.025	<0.025		<0.025	<0.025	<0.025	<0.075	NS			
G-4-3	10.0	U	05/15/17	6.40	1		NO.	-0.00F	×0.005		SAMPLED		-0.005	-0.00F	<0.075	NS NS		0.0000	4.50
G-5-1 G-5-2	3.5 8.0	U	05/15/17 05/15/17	5.30 4.10	11.1 NS	NS_	NS NS	<0.025 <0.025	<0.025 <0.025	<0.025 <0.025	<0.0153 <0.025	<0.025 <0.025	<0.025 <0.025	<0.025 <0.025	<0.075 <0.075	NS NS	0	0.0008	1.4E-0
G-5-2 G-5-3	10.0	U	05/15/17	5.10	INO	142	GVI I	1 ~0.025	_ \0.025		SAMPLED		1 ~0.025		~0.075	NS NS			
G-6-1	3.5	Ü	05/15/17	9.50	3.52	NS	NS	<0.025	<0.025			0.032	0.0254	<0.025	0.102	NS NS	0	0.0035	5.3E-0
G-6-2	8.0	U	05/15/17	5.70						NOT	SAMPLED)				NS			
G-6-3	8.5	U	05/15/17	21.00	NS	NS	NS	<0.025	0.067	<0.025		<0.025	0.43	0.91	0.250	NS			
G-7-1	3.5	U	05/15/17	5.40	2.93	NS_	NS	<0.025	<0.025		<0.0153		<0.025	<0.025	<0.075	NS	0		
G-7-2 G-7-3	8.0 8.5	U	05/15/17 05/15/17	4.70 330.00	NS	NS	NS	0.48	0.82	<0.25	SAMPLED 4.6	<0.25	31	14	4.38	NS NS			
G-8-1	3.5	U	05/15/17	8.20	140	140_	110	0.40	0.02		SAMPLED		J 31	1-4	4.30	NS NS	0		
G-8-2	8.0	Ü	05/15/17	3.60							SAMPLED					NS			
G-8-3	10.0	U	05/15/17	4.80							SAMPLED					NS			
G-9-1	3.5	U	05/15/17	5.90	4.77	NS	NS	<0.025	0.0254			<0.025	<0.025	<0.025	<0.075	NS	0	0.0034	6.2E-07
G-9-2	8.0	U	05/15/17	5.30		1 1/0		1 .0 .05			SAMPLED				0.005	NS			
G-9-3	8.5 3.5	U	05/15/17		NS 204	NS NS	NS NS	<0.125 <0.025	<0.125 <0.025		3.2 <0.0153	0.131 <0.025	2.15 <0.025	1,61 <0.025	0.665 <0.075	NS NS	0	0.5100	
G-10-1 G-10-2	8.0	Ü	05/15/17	3.30 6.20	NS NS	NS	NS	<0.025	<0.025		<0.0153		<0.025	<0.025	<0.075	NS NS	U	0.5100	
G-10-2 G-10-3	10.0	Ū	05/15/17		INO	1 143	I NO	1 40.020	1 -0.023		SAMPLED		1 40.023	1 10.025	٦٥.075	NS NS			
G-11-1	10.0		1 001 101 11	0.00				NO RI	COVERY					***************************************		NS			
G-11-2									COVERY							NS			
G-11-3	10.0	U	05/15/17		NS	NS_	NS	<0.125		<0.125	6.0	0.16	0.52	0.71	0.561	NS		0.4=00	
G-12-1	3.5	U	05/15/17	2.00	66.7	NS	NS	<0.025	<0.025			<0.025	<0.025	<0.025	<0.075	NS	0	0.1720	9.1E-0
G-12-2 G-12-3	8.0 8.5	U	05/15/17 05/15/17	5.00 19.00	NS	NS	NS	<0.025	<0.025	<0.025	SAMPLED 0.93	<0.025	<0.025	<0.025	<0.075	NS NS			
G-12-3 G-13-1	3.5	Ü	05/15/17	1.40	90.2	NS	NS	<0.025	<0.025		<0.0153		<0.025	<0.025	<0.075	NS NS	0	0.2255	1.2E-0
G-13-2	8.0	Ü	05/15/17	1.80				,	,		SAMPLED					NS			
G-13-3	8.5	U	05/15/17	1.30	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-14-1	3.5	Ų	05/15/17	2.10							SAMPLED					NS	0		
G-14-2	8.0	U	05/15/17	1.60		1 1/2		1 10 225	10.555		SAMPLED		1 10 222	10 005	-0.075	NS			
G-14-3	10.0	U	05/15/17	1.10	NS	NS	NS	<0.025	<0.025		<0.025 SAMPLED		<0.025	<0.025	<0.075	NS NS	0		
G-15-1 G-15-2	3.5 8.0	U	05/15/17	3.00							SAMPLED					NS NS	U		<u> </u>
G-15-3	9.0	Ü	05/15/17		NS	NS	NS	<0.025	<0.025		<0.025		<0.025	<0.025	<0.075	NS NS			
G-16-1	3.5	Ü	05/15/17								SAMPLED					NS	0		
G-16-2	8.0	U	05/15/17								SAMPLED					NS			
G-16-3	10.0	U	05/15/17			·					SAMPLED					NS			
G-17-1	3.5	U	05/15/17								SAMPLED SAMPLED					NS NS	0		
G-17-2 G-17-3	8.0 8.5	U	05/15/17 05/15/17		NS	NS	NS	<0.025	0.037		3.3	0.047	0.54	0.33	0.232	NS NS			
G-18-1	3.5	U	05/15/17	ļ	110	1 110	,,,0	1 -0.023	1 0.007		SAMPLED		1. 0.04	0.00	0.202	NS	0		
G-18-2	8.0	Ü	05/15/17		 						SAMPLED					NS NS	<u> </u>		
G-18-3	9.0	Ü	05/15/17								SAMPLED					NS			
roundwat					27		-	0.00512	1.57	0.027	0.6582	1.11		38	3.96	-		1 005	
		Contact R	CL		400		-	(7.07)	8.02	63.8	5.52	818	219	182	260	-		1.00E+00	1.00E-0
		tact RCL	` ca+*		(800)			(7.07)	(35.4)	(282)	(24.1)	(818) 818*	(219) 219*	(182)	(258) 258*	-		1.00E+00	1.00E-0
		entration (C			<u> </u>	<u> </u>		1820*	480*	8870*		010	219	182*	230				

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

Italics = Industrial Direct Contact RCL NS = Not Sampled

NM = Not Measured ND = No Detects

NS = Not Sampled
(ppm) = parts per million
DRO = Diesel Range Organics
GRO = Gasoline Range Organics
PID = Photoionization Detector

PVOC's = Petroleum Volatile Organic Compounds
VOC's = Volatile Organic Compounds
Note: Non-Industrial RCLs apply to this site.

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

A.2 Soil Analytical Results Table (PAH) Amberg Oil Tank Farm BRRTS #02-17-152462

		DKK13 #02-1																				DIRECT CONT	ACT PVOC & P.	AH COMBINED
	Depth	Saturation		Acenaph-	Acenaph-		Benzo(a)	Benzo(a)	Benzo(b)	Benzo(g,h,1)	Benzo(k)		Dibenzo(a,h)			Indeno(1,2,3-cd)	1-Methyl-	2-Methyl-	Naph-	Phenan-				Cumulative
Sample	(feet)	U/S	Date	thene	thylene	Anthracene	anthracene	pyrene	fluoranthene	perylene	fluoranthene	Chrysene	anthracene	Fluoranthene	Fluorene	pyrene	naphthalene	naphthalene	thalene	threne	Pyrene	Exeedance	Hazard	Cancer
				(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	Count	Index	Risk
G-1-1	3.5	U	05/15/17	<0.0151	<0.0159	0.141	0.0164	<0.0113	<0.013	0.0159	<0.0147	<0.0121	<0.0078	<0.0147	<0.0179	<0.0114	<0.0203	0.0164	<0.0153	0.0125	<0.0153	0	0.0001	1.4E-08
G-2-1	3.5	U	05/15/17	<0.0151	<0.0159	<0.0109	<0.0116	< 0.0113	<0.013	<0.0114	<0.0147	<0.0121	<0.0078	<0.0147	<0.0179	<0.0114	<0.0203	<0.0113	<0.0153	<0.0111	<0.0153	0		
G-3-1	3.5	U	05/15/17	<0.0151	<0.0159	<0.0109	<0.0116	< 0.0113	<0.013	<0.0114	<0.0147	<0.0121	<0.0078	<0.0147	<0.0179	<0.0114	<0.0203	<0.0113	<0.0153	<0.0111	<0.0153	0		
G-4-1	3.5	U	05/15/17	<0.0151	< 0.0159	<0.0109	<0.0116	< 0.0113	<0.013	<0.0114	<0.0147	<0.0121	<0.0078	<0.0147	<0.0179	<0.0114	<0.0203	< 0.0113	<0.0153	<0.0111	<0.0153	0		
G-5-1	3.5	U	05/15/17	< 0.0151	<0.0159	<0.0109	0.0176	0.0119	0.0189	0.0216	<0.0147	0.0207	<0.0078	<0.0147	<0.0179	<0.0114	<0.0203	0.0191	<0.0153	0.0307	0.0241	0	0.0008	1.4E-07
G-6-1	3.5	U	05/15/17	<0.0151	0.0172	0.0203	0.038	0.032	0.049	0.053	<0.0147	0.053	0.0137	0.037	<0.0179	0.0298	0.153	0.203	0.094	0.133	0.06	0	0.0035	5.3E-07
G-7-1	3.5	U	05/15/17	<0.0151	<0.0159	<0.0109	<0.0116	<0.0113	<0.013	<0.0114	<0.0147	<0.0121	<0.0078	<0.0147	<0.0179	<0.0114	<0.0203	< 0.0113	<0.0153	<0.0111	<0.0153	0		
G-9-1	3.5	U	05/15/17	<0.0151	0.0291	0.0164	0.034	0.038	0.058	0.094	0.0191	0.04	0.0163	0.0293	<0.0179	0.047	0.197	0.206	0.06	0.078	0.048	0	0.0034	6.2E-07
G-10-1	3.5	U	05/15/17	<0.0151	<0.0159	<0.0109	<0.0116	< 0.0113	<0.013	<0.0114	<0.0147	<0.0121	<0.0078	<0.0147	<0.0179	<0.0114	<0.0203	< 0.0113	<0.0153	<0.0111	<0.0153	0	0.5100	
G-12-1	3.5	U	05/15/17	<0.0151	0.03	0.0219	0.046	0.064	0.074	0.128	0.0182	0.062	0.0192	0.045	<0.0179	0.064	0.159	0.24	0.094	0.113	0.079	0	0.1720	9.1E-07
G-13-1	3.5	U	05/15/17	<0.0151	<0.0159	<0.0109	0.0139	<0.0113	< 0.013	<0.0114	<0.0147	<0.0121	<0.0078	<0.0147	<0.0179	<0.0114	<0.0203	<0.0113	<0.0153	<0.0111	<0.0153	0	0.2255	1.2E-08
Groundwat	er RCL					197		0.47	0.4793			0.145		88.8	14.8				0.6582		54.5			
Non-Indust	rial Direct C	Contact RCL	-	3590		17900	1.140	<u>0.1150</u>	<u>1.150</u>		<u>11.50</u>	<u>115</u>	<u>0.1150</u>	<u>2390</u>	2390	<u>1.150</u>	<u>17.6</u>	239	5.52		1790		1.00E+00	1.00E-05
ndustrial [irect Conta	ct RCL		(45200)		(100000)	(20.8)	(2.11)	(21.1)		(211)	(2110)	(2.11)	(30100)	(30100)	(21.1)	(72.7)	(3010)	(24.1)		(22600)			
Soil Satura	tion Concer	ntration (C-sat)*																					
14 - O		CL Excoodance			•		•		•		•		•	•										

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

NS = Not Sampled

(ppm) = parts per million
PAH = Polynuclear Aromatic Hydrocarbons

PID = Photoionization Detector

VOC's = Volatile Organic Compounds

ND = No Detects

NM = Not Measured

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

								Bold = Groundwater	Bold = Non- Industrial Direct	(Parenthesis & Bold) = Industrial Direct	Asteric * & Bold =Soil Saturation (C-
VOC's								RCL	Contact RCL	Contact RCL	sat) RCL
Sample ID# Sample Depth/ft.	B1 5-7	B1 7.5-9.5	B2 5-7	B2 7.5-9.5	B3 5-7	B3 7.5-9.5	G-1-2 8				
Sampling Date	04/19/95	04/19/95	04/19/95	04/19/95	04/19/95	04/19/95	05/15/17				
Solids Percent	NR	NR	NR	NR	NR	NR	84.3				
Lead/ppm	12.5	8.8	5.2	7.1	5.2	4.6	10.7	27	<u>400</u>	(800)	= =
Cadmium/ppm	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NS	0.752	71.1	(985)	
Benzene/ppm	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	< 0.30	0.00512	1.6	(7.07)	1820*
Bromobenzene/ppm	NR	NR	NR	NR	NR	NR	< 0.25	= =	342	(679)	= =
Bromodichloromethane/ppm	NR	NR	NR	NR	NR	NR	< 0.74	0.000326	0.418	(1.83)	= =
Bromoform/ppm	NR	NR	NR	NR	NR	NR	< 0.29	0.00233	25.4	(113)	= =
tert-Butylbenzene/ppm	NR	NR	NR	NR	NR	NR	< 0.26		183	(183)	183*
sec-Butylbenzene/ppm n-Butylbenzene/ppm	<0.025 <0.025	<0.025 <0.025	<0.025 <0.025	0.15 0.23	<0.025 <0.025	<0.025 <0.025	1.78 10	= = = = 0.00388	145 108	(145) (108)	145* 108* = =
Carbon Tetrachloride/ppm Chlorobenzene/ppm Chloroethane/ppm	NR NR NR	NR NR NR	NR NR NR	NR NR NR	NR NR NR	NR NR NR	< 0.16 < 0.13 < 0.91	0.00388 = = 0.227	0.916 370 = =	(4.03) (761) = =	761* = =
Chloroform/ppm Chloromethane/ppm	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	< 0.35 < 0.76	0.0033 0.0155	0.454 159 = =	(1.98) (669)	= = = = = =
2-Chlorotoluene/ppm	NR	NR	NR	NR	NR	NR	< 0.15	= =	= =	= =	= =
4-Chlorotoluene/ppm	NR	NR	NR	NR	NR	NR	< 0.18	= =	= =	= =	= =
1,2-Dibromo-3-chloropropane/ppm	NR	NR	NR	NR	NR	NR	< 0.58	0.000173	0.008	(0.092)	= =
Dibromochloromethane/ppm	NR	NR	NR	NR	NR	NR	< 0.25	0.032	8.28	(38.9)	==
1,4-Dichlorobenzene/ppm	NR	NR	NR	NR	NR	NR	< 0.37	0.144	3.74	(16.4)	
1,3-Dichlorobenzene/ppm	NR	NR	NR	NR	NR	NR	< 0.37	1.1528	<u>297</u>	(193)	297*
1,2-Dichlorobenzene/ppm	NR	NR	NR	NR	NR	NR	< 0.28	1.168	<u>376</u>	(376)	376*
Dichlorodifluoromethane/ppm	NR	NR	NR	NR	NR	NR	< 0.48	3.0863	126	(530)	= =
1,2-Dichloroethane/ppm	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	< 0.38	0.00284	0.652	(2.87)	540*
1,1-Dichloroethane/ppm	NR	NR	NR	NR	NR	NR	< 0.34	0.4834	5.06	(22.2)	= =
1,1-Dichloroethene/ppm	NR	NR	NR	NR	NR	NR	< 0.22	0.00502	<u>320</u>	(1190)	1190 *
cis-1,2-Dichloroethene/ppm	NR	NR	NR	NR	NR	NR	< 0.32	0.0412	<u>156</u>	(2340)	= =
trans-1,2-Dichloroethene/ppm	NR	NR	NR	NR	NR	NR	< 0.28	0.626	1560	(1850)	= =
1,2-Dichloropropane/ppm	NR	NR	NR	NR	NR	NR	< 0.35	0.00332	0.406	(1.78)	= =
1,3-Dichloropropane/ppm	NR	NR	NR	NR	NR	NR	< 0.25	= =	1490	(1490)	1490*
trans-1,3-Dichloropropene/ppm	NR	NR	NR	NR	NR	NR	< 0.22	0.001	<u>1510</u>	(1510)	= =
cis-1,3-Dichloropropene/ppm	NR	NR	NR	NR	NR	NR	< 0.39		<u>1210</u>	(1210)	= =
Di-isopropyl ether/ppm	NR	NR	NR	NR	NR	NR	< 0.1		2260	(2260)	2260*
EDB (1,2-Dibromoethane)/ppm	NR	NR	NR	NR	NR	NR	< 0.23	0.0000282	0.05	(0.221)	= =
Ethylbenzene/ppm	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	4	1.57	8.02	(35.4)	480*
Hexachlorobutadiene/ppm	NR	NR	NR	NR	NR	NR	< 0.85	==	<u>1.63</u>	(7.19)	= =
Isopropylbenzene/ppm	NR	NR	NR	NR	NR	NR	1.03 "J"		= =	= =	= =
p-Isopropyltoluene/ppm	<0.025	<0.025	<0.025	0.78	<0.025	<0.025	0.81 "J"		162	(162)	162*
Methylene chloride/ppm	NR	NR	NR	NR	NR	NR	< 1.5	0.00256	61.8	(1150)	= =
Methyl tert-butyl ether (MTBE)/ppm	NR	NR	NR	NR	NR	NR	< 0.5	0.027	63.8	(282)	8870*
Naphthalene/ppm	<0.050	0.099	<0.050	0.22	<0.050	<0.050	12.6	0.6582	<u>5.52</u>	(24.1)	= =
n-Propylbenzene/ppm	<0.025	<0.025	<0.025	0.053	<0.025	<0.025	7	= =	= =	= =	= =
1,1,2,2-Tetrachloroethane/ppm	<0.025	<0.025	<0.025	0.49	<0.025	<0.025	< 0.28	0.000156	0.81	(3.6)	= =
1,1,1,2-Tetrachloroethane/ppm Tetrachloroethene (PCE)/ppm	NR	NR	NR	NR	NR	NR	< 0.28	0.0534	2.78	(12.3)	= =
	NR	NR	NR	NR	NR	NR	< 0.32	0.00454	33	(145)	= =
Toluene/ppm 1,2,4-Trichlorobenzene/ppm 1,2,3-Trichlorobenzene/ppm	NR	NR	NR	NR	NR	NR	< 0.32	1.11	<u>818</u>	(818)	818*
	NR	NR	NR	NR	NR	NR	< 0.64	0.408	<u>24</u>	(113)	= =
	NR	NR	NR	NR	NR	NR	< 0.66	= =	<u>62.6</u>	(934)	= =
1,1,1-Trichloroethane/ppm	NR	NR	NR	NR	NR	NR	< 0.3	0.1402	= =	= =	==
1,1,2-Trichloroethane/ppm	<0.025	<0.025	<0.025	0.035	<0.025	<0.025	< 0.33	0.00324	<u>1.59</u>	(7.01)	
Trichloroethene (TCE)/ppm Trichlorofluoromethane/ppm 1,2,4-Trimethylbenzene/ppm	NR NR <0.025	NR NR <0.025	NR NR <0.025	NR NR 0.17	NR NR <0.025	NR NR <0.025	< 0.41 < 0.41 72	0.00358 2.2387	<u>1.3</u> <u>1230</u> 219	(8.41) (1230) (219)	= = 1230* 219*
1,3,5-Trimethylbenzene/ppm Vinyl Chloride/ppm	<0.025 <0.025 NR	<0.025 <0.025 NR	<0.025 <0.025 NR	0.49 NR	<0.025 <0.025 NR	<0.025 <0.025 NR	24 < 0.19	1.38 0.000138	182 0.07	(182) (2.08)	182* ==
m&p-Xylene/ppm o-Xylene/ppm	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	27.5 10.7	3.96	<u>260</u>	(260)	258*

NS = not sampled, NM = Not Measured

NR = not recorded
(ppm) = parts per million
= = No Exceedences
"J" Flag: Analyte detected between LOD and LOQ LOD Limit of Detection LOQ Limit of Quantitation

A.1 Groundwater Analytical Table (Geoprobe) Amberg Oil Tank Farm BRRTS #02-17-152462

Sample			Ethyl		Naph-		Trimethyl-	Xylene
ID	Date	Benzene	Benzene	MTBE	thalene	Toluene	benzenes	(Total)
		(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
G-1-W	05/15/17	0.31	141	<0.82	450	39	1313	1290
G-2-W	05/15/17	<0.17	<0.2	<0.82	<2.17	5.0	<2.05	<1.95
G-3-W	05/15/17	<0.85	<1	<4.1	<10.85	4.8	<10.25	<9.75
G-4-W	05/15/17	<0.17	<0.2	<0.82	<2.17	3.4	<2.05	<1.95
G-5-W	05/15/17	<0.85	<1	<4.1	<10.85	<3.35	<10.25	<9.75
G-6-W	05/15/17	<0.17	<0.2	<0.82	<2.17	2.96	<2.05	<1.95
G-7-W	05/15/17	<1.7	48	<8.2	40	<6.7	1113	324
G-8-W	05/15/17	<0.17	<0.2	<0.82	<2.17	< 0.67	1.92-2.83	<1.95
G-9-W	05/15/17	<0.17	21.6	<0.82	156	<0.67	191	18.57
G-10-W	05/15/17	<0.17	<0.2	<0.82	<2.17	< 0.67	<2.05	<1.95
G-11-W	05/15/17	<0.17	<0.2	<0.82	<2.17	< 0.67	<2.05	<1.95
G-12-W	05/15/17	<0.17	<0.2	<0.82	<2.17	< 0.67	<2.05	<1.95
G-13-W	05/15/17	<0.17	<0.2	<0.82	<2.17	<0.67	<2.05	<1.95
G-14-W	05/15/17			N	O RECOVE	₹Y		
G-15-W	05/15/17			N	O RECOVE	RY		
G-16-W	05/15/17	<0.17	<0.2	<0.82	<2.17	<0.67	<2.05	<1.95
G-17-W	05/15/17			N	O RECOVE	RY		
G-18-W	05/15/17	<0.17	<0.2	<0.82	<2.17	<0.67	<2.05	<1.95
ENFORCE MENT STAND	NFORCE MENT STANDARD ES = Bold			60	100	800	480	2000
PREVENTIVE ACTION LI	PREVENTIVE ACTION LIMIT PAL = Italics			12	10	160	96	400

NS = Not Sampled

(ppb) = parts per billion

(ppm) = parts per million

DRO = Diesel Range Organics
GRO = Gasoline Range Organics

A.7 Other Horizontal Flow Velocity Calculations - Unconsolidated Amberg Oil Tank Farm BRRTS# 02-17-152462

High				
	ft/s	ft/year	cm/s	m/yr
κ	1.97E-02	6.21E+05	6.00E-01	1.89E+05
Low				
	ft/s	ft/year	cm/s	m/yr
κ	6.56E-07	2.07E+01	2.00E-05	6.31
Date 04/09/2003	Elv. (High) 800.00	Elv. (Low) 785.00	Distance (ft) 205 Min Max Average	Hyd Grad (I) 7.32E-02 7.32E-02 7.32E-02 7.32E-02
High Low	K (m/yr) 1.89E+05 6.31E+00	Average Hyd Grad (I) 7.32E-02 7.32E-02	Porosity (n) 0.3 0.3	Flow Velocity (m/yr) 4.62E+04 1.54E+00
	3.0.2.00	71022 02	Min	1.54E+00
			Max	4.62E+04

2.31E+04

Average

A.7 Other Amberg Oil Tank Farm Hydraulic Conductivity Calculations

Book Values for Sand

	cm/s	m/yr		
K (low)	1.0E-03	315.36		
K (high)	1.0E-01	31536.00		
Date	Elv. (High)	Elv. (Low)	Distance (ft)	Hyd Grad (I)
04/09/2003	806.00	782.00	280	8.57E-02
	'K (m/yr)	1	n	Flow Velocity (m/yr)
K (low)	315.36	0.0857142	0.3	90
K (high)	31536	0.0857142	0.3	9010

8.0 PHOTOS

Site Investigation Report - METCO Amberg Oil Tank Farm Photo #1: Former loading rack, looking east.



Photo #2: Former loading rack, looking north.



Environmental Consulting, Fuel System Design, Installation and Service

Site Investigation Report - METCO Amberg Oil Tank Farm Photo #3: Berm on eastern side of the property, looking north.



Photo #4: Area of former ASTs, looking west-northwest.



Environmental Consulting, Fuel System Design, Installation and Service

Site Investigation Report - METCO Amberg Oil Tank Farm Photo #5: Area of former ASTs, looking west-southwest.



Photo #6: Area of former ASTs, looking southwest.



Environmental Consulting, Fuel System Design, Installation and Service

APPENDIX A/ METHODS OF INVESTIGATION

Site Investigation Report - METCO Amberg Oil Tank Farm Geoprobe Project

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

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

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

Geoprobe Soil Sampling

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

Geoprobe Groundwater Sampling

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

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.

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.

Site Investigation Report - METCO Amberg Oil Tank Farm 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

No investigative waste was generated as part of this site investigation.

Site Investigation Report - METCO Amberg Oil Tank Farm

APPENDIX B/ ANALYTICAL METHODS & LABORATORY DATA REPORTS

Synergy Environmental Lab,

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

JESSICA AMBERG **ESTATE OF STEVEN AMBERG** 300 FORD RD, #7 ST LOUIS PARK, MN 55426

Report Date 30-May-17

Project Name AMBERG OIL

Invoice # E32925

Project #

Lab Code

5032925A

Lab Code5032925ASample IDMETH BLANK

Sample Matrix Soil

Sample Date 5/15/2017

Sample Date	3/13/2017										
_		Result	Unit	LOD L	OQ Di	i	Method	Ext Date	Run Date	Analyst	Code
Organic											
PVOC + Napl	nthalene										
Benzene		< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		5/22/2017	TCC	1
Ethylbenzene		< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		5/22/2017	TCC	1
Methyl tert-butyl e	ther (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		5/22/2017	TCC	1
Naphthalene		< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		5/22/2017	TCC	1
Toluene		< 0.025	mg/kg	0.014	0.046	I	GRO95/8021		5/22/2017	TCC	1
1,2,4-Trimethylber	nzene	< 0.025	mg/kg	10.0	0.032	1	GRO95/8021		5/22/2017	TCC	İ
1,3,5-Trimethylber	nzene	< 0.025	mg/kg	0.011	0.036	l	GRO95/8021		5/22/2017	TCC	1
m&p-Xylene		< 0.05	mg/kg	0.012	0.037	1	GRO95/8021		5/22/2017	TCC	1
o-Xylene		< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		5/22/2017	TCC	1

Project #

Lab Code

Sample ID

5032925B G-I-1

Sample Matrix Soil Sample Date 5/15/2017

Sample Date	5/15/2017	Result	Unit	LOD I	LOQ D	il	Method	Ext Date	Run Date	Analyst	Code
General											
General											
Solids Percent		97.0	%			1	5021		5/18/2017	NJC	1
-											
Inorganic											
Metals				0.17	0.50	1	(010D		5/25/2017	CWT	1
Lead, Total		2.46	mg/Kg	0.17	0.58	1	6010B		3/23/2017	CWI	1
Organic											
PAH SIM											
Acenaphthene		< 0.0151	mg/kg	0.0151	0.0481	1	M8270C	5/23/2017	5/25/2017	NJC	l
Acenaphthylene		< 0.0159	mg/kg	0.0159	0.0508	-1	M8270C	5/23/2017	5/25/2017	NJC	1
Anthracene		0.141	mg/kg	0.0109	0.0345	I	M8270C	5/23/2017	5/25/2017	NJC	1
Benzo(a)anthracen	e	0.0164 "J"	mg/kg	0.0116	0.037	l	M8270C	5/23/2017	5/25/2017	NJC	1
Benzo(a)pyrene		< 0.0113	mg/kg	0.0113	0.0359	1	M8270C	5/23/2017	5/25/2017	NJC	l •
Benzo(b)fluoranthe	ene	< 0.013	mg/kg	0.013	0.041	1	M8270C	5/23/2017	5/25/2017	NJC	j
Benzo(g,h,i)peryle	ne	0.0159 "J"	mg/kg	0.0114	0.036	1	M8270C	5/23/2017	5/25/2017	NJC	i .
Benzo(k)fluoranthe	ene	< 0.0147	mg/kg	0.0147	0.0469	1	M8270C	5/23/2017	5/25/2017	NJC	J
Chrysene		< 0.0121	mg/kg	0.0121	0.0383	1	M8270C	5/23/2017	5/25/2017	NJC	J
Dibenzo(a,h)anthra	acene	< 0.0078	mg/kg	0.0078	0.0251	1	M8270C	5/23/2017	5/25/2017	NJC	l ,
Fluoranthene		< 0.0147	mg/kg	0.0147	0.0469	1	M8270C	5/23/2017	5/25/2017	NJC	!
Fluorene		< 0.0179	mg/kg	0.0179	0.057	1	M8270C	5/23/2017	5/25/2017	NJC	ł
Indeno(1,2,3-cd)py	rene/rene	< 0.0114	mg/kg	0.0114	0.0362	1	M8270C	5/23/2017	5/25/2017	NJC	l 1
I-Methyl naphthai		< 0.0203	mg/kg	0.0203	0.0645	1	M8270C	5/23/2017	5/25/2017	NJC	, I
2-Methyl naphthal	ene	0.0164 "J"	mg/kg	0.0113	0.0358	Ţ	M8270C	5/23/2017	5/25/2017	NJC	1
Naphthalene		< 0.0153	mg/kg	0.0153	0.0486	1	M8270C	5/23/2017	5/25/2017	NJC	J.
Phenanthrene		0.0125 "J"	mg/kg	0.0111	0.0352	1	M8270C	5/23/2017	5/25/2017	NJC	1
Pyrene		< 0.0153	mg/kg	0.0153	0.0487	ı	M8270C	5/23/2017	5/25/2017	NJC	f
PVOC											_
Benzene		< 0.025	mg/kg	0.019	0.06	I	GRO95/8021		5/22/2017	TCC	1
Ethylbenzene		< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		5/22/2017	TCC	I
Methyl tert-butyl e	ther (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		5/22/2017	TCC]
Toluene		< 0.025	mg/kg	0.014	0.046	l	GRO95/8021		5/22/2017	TCC	1
1,2,4-Trimethylber	izene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		5/22/2017	TCC	l
1,3,5-Trimethylber	nzene	< 0.025	mg/kg	0.011	0.036	I	GRO95/8021		5/22/2017	TCC	1
m&p-Xylene		< 0.05	mg/kg	0.012	0.037	l	GRO95/8021		5/22/2017	TCC	i
o-Xylene		< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		5/22/2017	TCC	ı

Project #

Lab Code5032925CSample IDG-1-2Sample MatrixSoilSample Date5/15/2017

Sample Date	5/15/2017	n	14	11:4	LOD	1.00	n:	F	Method	Ext Data	Run Date	Analyst	Code
C1		Res	uit	Unit	LUD	roq	וע	I	Method	Ext Date	Kun Date	Anaiyst	Code
General													
General											500/2017	MIC	•
Solids Percent		84.3		%]	5021		5/19/2017	NJC	i
Inorganic													
Metals													
Lead, Total		10.7		mg/Kg	0.1	7 0	.58	1	6010B		5/25/2017	CWT	1
TCLP Lead		10.7	< 0.1	mg/l	0.1		0.1	i	6010B		5/29/2017	ESC	1
			. 0.7	1116/1			Ų	•	00.02				
Organic													
General											- (-0.0015) II G	
Diesel Range Orga	nics	364		mg/kg	1.16		3.7	I	DRO95		5/23/2017	NJC	1
Gasoline Range Or	ganics	960		mg/kg	10.	7 3	4.1	10	GRO95/8021		5/23/2017	TCC	1
TCLP													
TCLP Benzene			< 0.05	mg/l	0.0	5		i	8260B		5/28/2017	ESC	1
VOC's													
Benzene			< 0.30	ug/kg	0.3	3 0	.96	10	8260B		5/25/2017	CJR	ł
Bromobenzene			< 0.25	mg/kg	0.23		.81	10	8260B		5/25/2017	CJR	I
Bromodichloromet	hane		< 0.74	mg/kg	0.74	1	2.4	10	8260B		5/25/2017	CJR	1
Bromoform			< 0.29	mg/kg	0.29	9 0	.92	10	8260B		5/25/2017	CJR	1
tert-Butylbenzene			< 0.26	mg/kg	0.20	5 0	.84	10	8260B		5/25/2017	CJR	ŀ
sec-Butylbenzene		1.78		mg/kg	0.33		1	10	8260B		5/25/2017	CJR	1
n-Butylbenzene		10		mg/kg	0.4		1.3	10	8260B		5/25/2017	CJR	l
Carbon Tetrachlori	de		< 0.16	mg/kg	0.1		1.53	10	8260B		5/25/2017	CJR	1
Chlorobenzene			< 0.13	mg/kg	0.13		0.4	01	8260B		5/25/2017	CJR	l I
Chloroethane			< 0.91	mg/kg	0.9		2.9	10			5/25/2017	CJR	1
Chloroform			< 0.35	mg/kg	0.33		1.1	10	8260B		5/25/2017	CJR CJR	1
Chloromethane			< 0.76	mg/kg	0.70		2.4	10	8260B		5/25/2017 5/25/2017	CJR	1
2-Chlorotoluene			< 0.15	mg/kg	0.1:		.47	10 10	8260B 8260B		5/25/2017	CJR	1
4-Chlorotoluene			< 0.18	mg/kg	0.13 0.58		1.57 1.8	10	8260B		5/25/2017	CJR	i
1,2-Dibromo-3-chl			< 0.58 < 0.25	mg/kg mg/kg	0.30		1.0	10			5/25/2017	CJR	
Dibromochloromet			< 0.23	mg/kg	0.2		1.2	10	8260B		5/25/2017	CJR	1
1,4-Dichlorobenzer			< 0.37	mg/kg	0.3		1.2	10	8260B		5/25/2017	CJR	1
1,3-Dichlorobenzer			< 0.28	mg/kg	0.28		.88		8260B		5/25/2017	CJR]
Dichlorodifluorom			< 0.48	mg/kg	0.4		1.5	10	8260B		5/25/2017	CJR	1
1.2-Dichloroethane			< 0.38	mg/kg	0.3		1.2	10	8260B		5/25/2017	CJR	1
1,1-Dichloroethane			< 0.34	mg/kg	0.34		1.1	10	8260B		5/25/2017	CJR	i
1.1-Dichloroethene			< 0.22	mg/kg	0.22		.69	10	8260B		5/25/2017	CJR	1
cis-1,2-Dichloroeth			< 0.32	mg/kg	0.32	2	l	10	8260B		5/25/2017	CJR	1
trans-1,2-Dichloroe			< 0.28	mg/kg	0.28	8	0.9	01	8260B		5/25/2017	CJR	1
1,2-Dichloropropar			< 0.35	mg/kg	0.33	5	1,1	10	8260B		5/25/2017	CJR	1
1,3-Dichloropropar			< 0.25	mg/kg	0.23	5 0	.79	10			5/25/2017	CJR	1
trans-1,3-Dichloro			< 0.22	mg/kg	0.22		.68	10			5/25/2017	CJR	1
cis-1,3-Dichloropro			< 0.39	mg/kg	0.39		1.2	10	8260B		5/25/2017	CJR]
Di-isopropyl ether			< 0.1	mg/kg	0.1		.32	10			5/25/2017	CJR	1
EDB (1,2-Dibromo	ethane)		< 0.23	mg/kg	0.23	_	.72	10			5/25/2017	CJR	Ĭ 1
Ethylbenzene		4.0		mg/kg	0.3:		1.1	10	8260B		5/25/2017	CJR	1 1
Hexachlorobutadie	ne		< 0.85	mg/kg	0.83		2.7		8260B		5/25/2017	CJR CJR]]
Isopropylbenzene		1.03	"]"	mg/kg	0.34		1.1	10	8260B		5/25/2017 5/25/2017	CJR CJR	1
p-Isopropyltoluene		0.81		mg/kg	0.29		.93	10	8260B		5/25/2017	CJR CJR	1
Methylene chloride	•		< 1.5	mg/kg	1)	4.6	ιU	8260B		3/23/2017	CJI	1

Project #

Lab Code 5032925C Sample ID G-1-2 Sample Matrix Soil

Sample Date 5/15/2017

•	Result	Unit	LOD	LOQ D	il	Method	Ext Date	Run Date	Analyst	Code
Methyl tert-butyl ether (MTBE)	< 0.5	mg/kg	0.5	1.6	10	8260B		5/25/2017	CJR	1
Naphthalene	12.6	mg/kg	0.94	3	10	8260B		5/25/2017	CJR	1
n-Propylbenzene	7.0	mg/kg	0.33	1	10	8260B		5/25/2017	CJR	1
1,1,2,2-Tetrachloroethane	< 0.28	mg/kg	0.28	8.8	10	8260B		5/25/2017	CJR	ł
I,1,1,2-Tetrachloroethane	< 0.28	mg/kg	0.28	0.9	10	8260B		5/25/2017	CJR	[
Tetrachloroethene	< 0.32	mg/kg	0.32	1	10	8260B		5/25/2017	CJR	1
Toluene	< 0.32	e mg/kg	0.32	l	10	8260B		5/25/2017	CJR	1
1,2,4-Trichlorobenzene	< 0.64	mg/kg	0.64	2	10	8260B		5/25/2017	CJR	1
1,2,3-Trichlorobenzene	< 0.66	mg/kg	0.66	2.1	10	8260B		5/25/2017	CJR	1
1,1,1-Trichloroethane	< 0.3	mg/kg	0.3	9.6	10	8260B		5/25/2017	CJR	1
I,1,2-Trichloroethane	< 0.33	mg/kg	0.33	1.1	10	8260B		5/25/2017	CJR	1
Trichloroethene (TCE)	< 0.41	mg/kg	0.41	1.3	01	8260B		5/25/2017	CJR	1
Trichlorofluoromethane	< 0.41	mg/kg	0.41	1.3	10	8260B		5/25/2017	CJR	1
1,2,4-Trimethylbenzene	72	mg/kg	0.25	0.8	10	8260B		5/25/2017	CJR	1
1,3,5-Trimethylbenzene	24	mg/kg	0.32	1	10	8260B	•	5/25/2017	CJR	i
Vinyl Chloride	< 0.19	mg/kg	0.19	0.62	10	8260B		5/25/2017	CJR	1
m&p-Xylene	27.5	mg/kg	0.72	2.3	10	8260B		5/25/2017	CJR	1
o-Xylene	10.7	mg/kg	0.44	1.4	01	8260B		5/25/2017	CJR	1
SUR - 1,2-Dichloroethane-d4	103	Rec %			10	8260B		5/25/2017	CJR	1
SUR - Dibromofluoromethane	100	Rec %			10	8260B		5/25/2017	CJR	i
SUR - Toluene-d8	105	Rec %			10	8260B		5/25/2017	CJR	t
SUR - 4-Bromofluorobenzene	104	Rec %			10	8260B		5/25/2017	CJR	1

Invoice # E32925

Project Name AMBERG OIL Project #

5032925D

Lab Code Sample ID

G-2-1

Sample Matrix Soil

-	5011										
Sample Date	5/15/2017										
		Result	Unit	LOD	LOQ D	il	Method	Ext Date	Run Date	Analyst	Code
General											
General											
Solids Percent		93.2	%			1	5021		5/19/2017	NJC	1
Inorganic											
Metals											
Lead, Total		2.31	mg/Kg	0.17	0.58	ſ	6010B		5/25/2017	CWT	1
Organic											
PAH SIM											
Acenaphthene		< 0.0151	mg/kg	0.0151	1840.0	1	M8270C	5/23/2017	5/25/2017	NJC	1
Acenaphthylene		< 0.0159	mg/kg	0.0151	0.0508	i	M8270C	5/23/2017	5/25/2017	NJC	1
Anthracene		< 0.0109	mg/kg	0.0109	0.0345	ì	M8270C	5/23/2017	5/25/2017	NJC	1
Benzo(a)anthracene		< 0.0116	mg/kg	0.0116	0.037	l	M8270C	5/23/2017	5/25/2017	NJC	
Benzo(a)pyrene	-	< 0.0113	mg/kg	0.0113	0.0359	i	M8270C	5/23/2017	5/25/2017	NJC	1
Benzo(b)fluoranthene	ь.	< 0.0113	mg/kg	0.013	0.0333	1	M8270C M8270C	5/23/2017	5/25/2017	NJC	1
Benzo(g,h,i)perylene		< 0.0114	mg/kg	0.0114	0.036	1	M8270C	5/23/2017	5/25/2017	NJC	1
Benzo(k)fluoranthene		< 0.0114	mg/kg	0.0117	0.0469	i	M8270C	5/23/2017	5/25/2017	NJC	i
Chrysene	_	< 0.0121	mg/kg	0.0121	0.0383	ī	M8270C	5/23/2017	5/25/2017	NJC	i
Dibenzo(a,h)anthrace	ne	< 0.0078	mg/kg	0.0078	0.0251	i	M8270C	5/23/2017	5/25/2017	NJC	i
Fluoranthene		< 0.0147	mg/kg	0.0147	0.0469	i	M8270C	5/23/2017	5/25/2017	NJC	i
Fluorene		< 0.0179	mg/kg	0.0179	0.057	1	M8270C	5/23/2017	5/25/2017	NJC	i 1
Indeno(1,2,3-cd)pyre	ne	< 0.0114	mg/kg	0.0114	0.0362	ī	M8270C	5/23/2017	5/25/2017	NJC	. i
1-Methyl naphthalene		< 0.0203	mg/kg	0.0203	0.0645	Ī	M8270C	5/23/2017	5/25/2017	NJC	Ī
2-Methyl naphthalene		< 0.0113	mg/kg	0.0113	0.0358	1	M8270C	5/23/2017	5/25/2017	NJC	i
Naphthalene		< 0.0153	mg/kg	0.0153	0.0486	1	M8270C	5/23/2017	5/25/2017	NJC	1
Phenanthrene		< 0.0111	mg/kg	0.0111	0.0352	1	M8270C	5/23/2017	5/25/2017	NJC	1
Pyrene		< 0.0153	mg/kg	0.0153	0.0487	1	M8270C	5/23/2017	5/25/2017	NJC]
PVOC											
Benzene		< 0.025	mg/kg	0.019	0.06	}	GRO95/8021		5/22/2017	TCC	ı
Ethylbenzene		< 0.025	mg/kg	0.01	0.032	l	GRO95/8021		5/22/2017	TCC	1
Methyl tert-butyl ethe	er (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		5/22/2017	TCC	1
Toluene	,	< 0.025	mg/kg	0.014	0.046	J	GRO95/8021		5/22/2017	TCC	1
1,2,4-Trimethylbenze	ene	< 0.025	mg/kg	0.01	0.032]	GRO95/8021		5/22/2017	TCC	i
1,3,5-Trimethylbenze		< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		5/22/2017	TCC	t
m&p-Xylene		< 0.05	mg/kg	0.012	0.037	I	GRO95/8021		5/22/2017	TCC	1
o-Xylene		< 0.025	mg/kg	0.015	0.047	l	GRO95/8021		5/22/2017	TCC	1

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Project Name AMBERG OIL Invoice # E32925

Project #

Lab Code5032925ESample IDG-2-3Sample MatrixSoilSample Date5/15/2017

Sample Date .	7/13/2017										
		Result	Unit	LOD	LOQ D	il	Method	Ext Date	Run Date	Analyst	Code
General											
General											
Solids Percent		86.6	%			1	5021		5/19/2017	NJC	1
Organic											
PVOC + Naphth	alene										
Benzene		< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		5/22/2017	TCC	1
Ethylbenzene		< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		5/22/2017	TCC	1
Methyl tert-butyl ethe	r (MTBE)	< 0.025	mg/kg	0.0079	0.025	I	GRO95/8021		5/22/2017	TCC	i
Naphthalene		0.050 "J"	mg/kg	0.022	0.07	1	GRO95/8021		5/22/2017	TCC	I
Toluene		< 0.025	mg/kg	0.014	0.046]	GRO95/8021		5/22/2017	TCC	I
1,2,4-Trimethylbenze	ne	0.050	mg/kg	0.01	0.032	1	GRO95/8021		5/22/2017	TCC	1
1,3,5-Trimethylbenze	ne	0.032 "J"	mg/kg	110.0	0.036	1	GRO95/8021		5/22/2017	TCC	1
m&p-Xylene		< 0.05	mg/kg	0.012	0.037	I	GRO95/8021		5/22/2017	TCC	1
o-Xylene		< 0.025	mg/kg	0.015	0.047	l	GRO95/8021		5/22/2017	TCC	1

Project #

Lab Code5032925FSample IDG-3-1Sample MatrixSoilSample Date5/15/2017

Sample Date	3/13/2017	Result	Unit	LOD	LOQ D	i	Method	Ext Date	Run Date	Analyst	Code
General											
General											
Solids Percent		90.7	%			I	5021		5/19/2017	NJC	I
Inorganic											
Metals											
		207	mall/a	0.17	0.58	1	6010B		5/25/2017	CWT	Ì
Lead, Total		2.87	mg/Kg	0.17	0.56	1	GOTOD		312312011	CWI	•
Organic											
PAH SIM											
Acenaphthene		< 0.0151	mg/kg	0.0151	0.0481	1	M8270C	5/23/2017	5/25/2017	NJC	Į.
Acenaphthylene		< 0.0159	mg/kg	0.0159	0.0508	1	M8270C	5/23/2017	5/25/2017	NJC	1
Anthracene		< 0.0109	mg/kg	0.0109	0.0345	1	M8270C	5/23/2017	5/25/2017	NJC	1
Benzo(a)anthracene		< 0.0116	mg/kg	0.0116	0.037	1	M8270C	5/23/201-7	5/25/2017	NJC	!
Benzo(a)pyrene		< 0.0113	mg/kg	0.0113	0.0359	I	M8270C	5/23/2017	5/25/2017	NJC	1
Benzo(b)fluoranther	ie	< 0.013	mg/kg	0.013	0.041	1	M8270C	5/23/2017	5/25/2017	NJC	!
Benzo(g,h,i)perylene	3	< 0.0114	mg/kg	0.0114	0.036	i	M8270C	5/23/2017	5/25/2017	NJC	1
Benzo(k)fluoranther	ie	< 0.0147	mg/kg	0.0147	0.0469	l	M8270C	5/23/2017	5/25/2017	NJC	1
Chrysene		< 0.0121	mg/kg	0.0121	0.0383	1	M8270C	5/23/2017	5/25/2017	NJC	1
Dibenzo(a,h)anthrac	ene	< 0.0078	mg/kg	0.0078	0.0251	1	M8270C	5/23/2017	5/25/2017	NJC]
Fluoranthene		< 0.0147	mg/kg	0.0147	0.0469	1.	M8270C	5/23/2017	5/25/2017	NJC	1
Fluorene		< 0.0179	mg/kg	0.0179	0.057	1	M8270C	5/23/2017	5/25/2017	NJC	1
Indeno(1,2,3-cd)pyr		< 0.0114	mg/kg	0.0114	0.0362	Į.	M8270C	5/23/2017	5/25/2017	NJC	j j
1-Methyl naphthaler		< 0.0203	mg/kg	0.0203	0.0645	1	M8270C	5/23/2017	5/25/2017	NJC	l I
2-Methyl naphthaler	ne	< 0.0113	mg/kg	0.0113	0.0358	1	M8270C	5/23/2017	5/25/2017	NJC	1
Naphthalene		< 0.0153	mg/kg	0.0153	0.0486	ı	M8270C	5/23/2017	5/25/2017	NJC NJC	J T
Phenanthrene		< 0.0111	mg/kg	1110.0	0.0352	1	M8270C	5/23/2017	5/25/2017		1
Pyrene		< 0.0153	mg/kg	0.0153	0.0487	ŧ	M8270C	5/23/2017	5/25/2017	NJC	1
PVOC											
Benzene		< 0.025	mg/kg	0.019	0.06	ì	GRO95/8021		5/24/2017	TCC	1
Ethylbenzene		< 0.025	mg/kg	10.0	0.032	l	GRO95/8021		5/24/2017	TCC	1
Methyl tert-butyl eth	er (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		5/24/2017	TCC	I
Toluene		< 0.025	mg/kg	0.014	0.046	ĺ	GRO95/8021		5/24/2017	TCC	1
1,2,4-Trimethylbenz	ene	< 0.025	mg/kg	10.0	0.032	1	GRO95/8021		5/24/2017	TCC	1
1,3,5-Trimethylbenz		< 0.025	mg/kg	0.011	0.036	ì	GRO95/8021		5/24/2017	TCC	1
m&p-Xylene		< 0.05	mg/kg	0.012	0.037	I	GRO95/8021		5/24/2017	TCC	1
o-Xylene		< 0.025	mg/kg	0.015	0.047	J	GRO95/8021		5/24/2017	TCC	1

Project Name AMBERG OIL Invoice # E32925

Project #

Lab Code5032925GSample IDG-3-2Sample MatrixSoilSample Date5/15/2017

July 10 Date 5, 1	2,201,										
		Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										•	
General											
Solids Percent		84.4	%			1	5021		5/19/2017	NJC	1
Organic											
PVOC + Naphthale	ene										
Benzene		< 0.025	mg/kg	0.019	0.0	6 I	GRO95/8021		5/23/2017	TCC	1
Ethylbenzene		< 0.025	mg/kg	0.01	0.032	2 1	GRO95/8021		5/23/2017	TCC	i
Methyl tert-butyl ether (I	MTBE)	< 0.025	mg/kg	0.0079	0.025	5 1	GRO95/8021		5/23/2017	TCC	1
Naphthalene		< 0.025	mg/kg	0.022	0.07	7 I	GRO95/8021		5/23/2017	TCC	i
Toluene		< 0.025	mg/kg	0.014	0.046	5 1	GRO95/8021		5/23/2017	TCC	1
I,2,4-Trimethylbenzene		< 0.025	mg/kg	0.01	0.032	2 1	GRO95/8021		5/23/2017	TCC	i
1,3,5-Trimethylbenzene		< 0.025	mg/kg	0.011	0.036	5 [GRO95/8021		5/23/2017	TCC	1
m&p-Xylene		< 0.05	mg/kg	0.012	0.037	7 1	GRO95/8021		5/23/2017	TCC	i
o-Xylene		< 0.025	mg/kg	0.015	0.047	7 1	GRO95/8021		5/23/2017	TCC	i

Invoice # E32925

Project Name AMBERG OIL Project #

5032925H G-4-1

Lab Code

Sample ID G-4-Sample Matrix Soil Sample Date 5/15/

5/15/2017

C1	
General	
General	
Solids Percent 92.2 % 1 5021 5/19/2017 NJC	1
Inorganic	
Metals	
Lead, Total 2.74 mg/Kg 0.17 0.58 1 6010B 5/25/2017 CWT	1
Organic Size 2.7. Ingrig 6.17 6.56 1 60105	,
· ·	
PAH SIM	
Acenaphthene < 0.0151 mg/kg 0.0151 0.0481 I M8270C 5/23/2017 5/25/2017 NJC	1
Acenaphthylene < 0.0159 mg/kg 0.0159 0.0508 1 M8270C 5/23/2017 5/25/2017 NJC	1
Anthracene < 0.0109 mg/kg 0.0109 0.0345 l M8270C 5/23/2017 5/25/2017 NJC	1
Benzo(a)anthracene < 0.0116 mg/kg 0.0116 0.037 l M8270C 5/23/2017 5/25/2017 NJC	1
Benzo(a)pyrene < 0.0113 mg/kg 0.0113 0.0359 l M8270C 5/23/2017 5/25/2017 NJC	[
Benzo(b)fluoranthene < 0.013 mg/kg 0.013 0.041 ! M8270C 5/23/2017 5/25/2017 NJC	I
Benzo(g,h,i)perylene < 0.0114 mg/kg 0.0114 0.036 l M8270C 5/23/2017 5/25/2017 NJC	1
Benzo(k)fluoranthene < 0.0147 mg/kg 0.0147 0.0469 1 M8270C 5/23/2017 5/25/2017 NJC	1
Chrysene < 0.0121 mg/kg 0.0121 0.0383 1 M8270C 5/23/2017 5/25/2017 NJC	1
Dibenzo(a,h)anthracene < 0.0078 mg/kg 0.0078 0.0251 1 M8270C 5/23/2017 5/25/2017 NJC	l
Fluoranthene < 0.0147 mg/kg 0.0147 0.0469 1 M8270C 5/23/2017 5/25/2017 NJC	l
Fluorene < 0.0179 mg/kg 0.0179 0.057 I M8270C 5/23/2017 5/25/2017 NJC	1
Indeno(1,2,3-cd)pyrene < 0.0114 mg/kg 0.0114 0.0362 1 M8270C 5/23/2017 5/25/2017 NJC	1
1-Methyl naphthalene < 0.0203 mg/kg 0.0203 0.0645 1 M8270C 5/23/2017 5/25/2017 NJC	i
2-Methyl naphthalene < 0.0113 mg/kg 0.0113 0.0358 1 M8270C 5/23/2017 5/25/2017 NJC	l
Naphthalene < 0.0153 mg/kg 0.0153 0.0486 1 M8270C 5/23/2017 5/25/2017 NJC	1
Phenanthrene < 0.0111 mg/kg 0.0111 0.0352 ! M8270C 5/23/2017 5/25/2017 NJC	1
Pyrene < 0.0153 mg/kg 0.0153 0.0487 l M8270C 5/23/2017 5/25/2017 NJC	1
PVOC	
Benzene < 0.025 mg/kg 0.019 0.06 1 GRO95/8021 5/22/2017 TCC	1
Ethylbenzene < 0.025 mg/kg 0.01 0.032 1 GRO95/8021 5/22/2017 TCC	1
Methyl tert-butyl ether (MTBE) < 0.025 mg/kg 0.0079 0.025 l GRO95/8021 5/22/2017 TCC	1
Toluene < 0.025 mg/kg 0.014 0.046 l GRO95/8021 5/22/2017 TCC	ì
1,2,4-Trimethylbenzene < 0.025 mg/kg 0.01 0.032 1 GRO95/8021 5/22/2017 TCC	i
1,3,5-Trimethylbenzene < 0.025 mg/kg 0.011 0.036 l GRO95/8021 5/22/2017 TCC	1
m&p-Xylene < 0.05 mg/kg 0.012 0.037 l GRO95/8021 5/22/2017 TCC	1
o-Xylene < 0.025 mg/kg 0.015 0.047 1 GRO95/8021 5/22/2017 TCC	1

Project Name AMBERG OIL Invoice # E32925

Project #

Lab Code 50329251 Sample ID G-4-2 Sample Matrix Soil

Sample Date 5/15/2017

•	Result	Unit	LOD I	LOQ D	il	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	84.5	%			I	5021		5/19/2017	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		5/22/2017	TCC	1
Ethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		5/22/2017	TCC]
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	E	GRO95/8021		5/22/2017	TCC	1
Naphthalene	< 0.025	mg/kg	0.022	0.07	l	GRO95/8021		5/22/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		5/22/2017	TCC	l
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		5/22/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		5/22/2017	TCC	l
m&p-Xylene	< 0.05	mg/kg	0.012	0.037	1	GRO95/8021		5/22/2017	TCC	1
o-Xylene	< 0.025	mg/kg	0.015	0.047	t	GRO95/8021		5/22/2017	TCC	į

Project #

Lab Code

5032925J

Sample ID G-5-1

Sample Matrix Soil
Sample Date 5/15/ 5/15/2017

Sample Date 3/	13/2017	Result	Unit	LOD I	OQ D	il	Method	Ext Date	Run Date	Analyst	Code
General					-						
General											
Solids Percent		93.3	%			ì	5021		5/19/2017	NJC	1
		75.5	70			-					
Inorganic											
Metals										ć	_
Lead, Total		11.1	mg/Kg	0.17	0.58	I	6010B		5/25/2017	CWT	1
Organic											
PAH SIM											
Acenaphthene		< 0.0151	mg/kg	0.0151	0.0481	ļ	M8270C	5/23/2017	5/25/2017	NJC	1
Acenaphthylene		< 0.0159	mg/kg	0.0159	0.0508	1	M8270C	5/23/2017	5/25/2017	NJC	ł
Anthracene		< 0.0109	mg/kg	0.0109	0.0345	1	M8270C	5/23/2017	5/25/2017	NJC	i
Benzo(a)anthracene		0.0176 "J"	mg/kg	0.0116	0.037	1	M8270C	5/23/2017	5/25/2017	NJC	1
Benzo(a)pyrene		0.0119 "J"	mg/kg	0.0113	0.0359	ı	M8270C	5/23/2017	5/25/2017	NJC	1
Benzo(b)fluoranthene		0.0189 "J"	mg/kg	0.013	0.041	1	M8270C	5/23/2017	5/25/2017	NJC	l
Benzo(g,h,i)perylene		0.0216 "J"	mg/kg	0.0114	0.036	1	M8270C	5/23/2017	5/25/2017	NJC	1
Benzo(k)fluoranthene		< 0.0147	mg/kg	0.0147	0.0469	1	M8270C	5/23/2017	5/25/2017	NJC	1
Chrysene		0.0207 "J"	mg/kg	0.0121	0.0383]	M8270C	5/23/2017	5/25/2017	NJC	l
Dibenzo(a,h)anthracene	;	< 0.0078	mg/kg	0.0078	0.0251	i	M8270C	5/23/2017	5/25/2017	NJC	1
Fluoranthene		< 0.0147	mg/kg	0.0147	0.0469	I	M8270C	5/23/2017	5/25/2017	NJC	I
Fluorene		< 0.0179	mg/kg	0.0179	0.057	1	M8270C	5/23/2017	5/25/2017	NJC	l l
Indeno(1,2,3-cd)pyrene	;	< 0.0114	mg/kg	0.0114	0.0362	Ī	M8270C	5/23/2017	5/25/2017	NJC	1
1-Methyl naphthalene		< 0.0203	mg/kg	0.0203	0.0645	- 1	M8270C	5/23/2017	5/25/2017	NJC	I
2-Methyl naphthalene		0.0191 "J"	mg/kg	0.0113	0.0358	1	M8270C	5/23/2017	5/25/2017	NJC	1
Naphthalene		< 0.0153	mg/kg	0.0153	0.0486	ł	M8270C	5/23/2017	5/25/2017	NJC	1
Phenanthrene		0.0307 "J"	mg/kg	1110.0	0.0352	- 1	M8270C	5/23/2017	5/25/2017	NJC	1
Pyrene		0.0241 "J"	mg/kg	0.0153	0.0487]	M8270C	5/23/2017	5/25/2017	NJC	1
PVOC											
Benzene		< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		5/22/2017	TCC	
Ethylbenzene		< 0.025	mg/kg	10.0	0.032	ł	GRO95/8021		5/22/2017	TCC	1
Methyl tert-butyl ether	(MTBE)	< 0.025	mg/kg	0.0079	0.025	I	GRO95/8021		5/22/2017	TCC	Ī
Toluene	(/	< 0.025	mg/kg	0.014	0.046]	GRO95/8021		5/22/2017	TCC	J
1,2,4-Trimethylbenzene		< 0.025	mg/kg	0.01	0.032	ł	GRO95/8021		5/22/2017	TCC	1
1,3,5-Trimethylbenzene		< 0.025	mg/kg	110.0	0.036	- 1	GRO95/8021		5/22/2017	TCC	1
m&p-Xylene		< 0.05	mg/kg	0.012	0.037	1	GRO95/8021		5/22/2017	TCC	1
o-Xylene		< 0.025	mg/kg	0.015	0.047	Į	GRO95/8021		5/22/2017	TCC	i
•											

Project Name AMBERG OIL Invoice # E32925

Project #

Lab Code5032925KSample IDG-5-2Sample MatrixSoilSample Date5/15/2017

Dampie Date 3/13/20	11/									
·	Result	Unit	LOD L	OQ Dil		Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	94.0	%			1	5021		5/19/2017	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.019	0.06	I	GRO95/8021		5/22/2017	TCC	I
Ethylbenzene	< 0.025	mg/kg	0.01	0.032	l	GRO95/8021		5/22/2017	TCC	1
Methyl tert-butyl ether (MTB)	E) < 0.025	mg/kg	0.0079	0.025	ĺ	GRO95/8021		5/22/2017	TCC	j
Naphthalene	< 0.025	mg/kg	0.022	0.07	l	GRO95/8021		5/22/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		5/22/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.01	0.032		GRO95/8021		5/22/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	ı	GRO95/8021		5/22/2017	TCC	1
m&p-Xylene	< 0.05	mg/kg	0.012	0.037	ŀ	GRO95/8021		5/22/2017	TCC	ì
o-Xylene	< 0.025	mg/kg	0.015	0.047		GRO95/8021		5/22/2017	TCC	1

Project #

Lab Code5032925LSample IDG-6-1Sample MatrixSoilSample Date5/15/2017

•	Result	Unit	LOD	LOQ I)il	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	91.5	%			1	5021		5/19/2017	NJC	į
Inorganic	7	, ,			-	002.		511772011	. 1,00	•
_										
Metals										
Lead, Total	3.52	mg/Kg	0.17	0.58	1	6010B		5/25/2017	CWT	j
Organic										
PAH SIM										
Acenaphthene	< 0.0151	mg/kg	0.0151	0.0481	1	M8270C	5/23/2017	5/25/2017	NJC	1
Aceпaphthylene	0.0172 "J"	mg/kg	0.0159	0.0508	i	M8270C	5/23/2017	5/25/2017	NJC	i
Anthracene	0.0203 "J"	mg/kg	0.0109	0.0345	1	M8270C	5/23/2017	5/25/2017	NJC	į
Benzo(a)anthracene	0.038	mg/kg	0.0116	0.037	1	M8270C	5/23/2017	5/25/2017	NJC	1
Benzo(a)pyrene	0.032 "J"	mg/kg	0.0113	0.0359	1	M8270C	5/23/2017	5/25/2017	NJC	1
Benzo(b)fluoranthene	0.049	mg/kg	0.013	0.041	1	M8270C	5/23/2017	5/25/2017	NJC	1
Benzo(g,h,i)perylene	0.053	mg/kg	0.0114	0.036	1	M8270C	5/23/2017	5/25/2017	NJC	ł
Benzo(k)fluoranthene	< 0.0147	mg/kg	0.0147	0.0469	1	M8270C	5/23/2017	5/25/2017	NJC	l
Chrysene	0.053	mg/kg	0.0121	0.0383	1	M8270C	5/23/2017	5/25/2017	NJC	1
Dibenzo(a,h)anthracene	0.0137 "J"	mg/kg	0.0078	0.0251	i	M8270C	5/23/2017	5/25/2017	NJC]
Fluoranthene	0.037 "J"	mg/kg	0.0147	0.0469	1	M8270C	5/23/2017	5/25/2017	NJC	1
Fluorene	< 0.0179	mg/kg	0.0179	0.057	1	M8270C	5/23/2017	5/25/2017	NJC	ľ
Indeno(1,2,3-cd)pyrene	0.0298 "J"	mg/kg	0.0114	0.0362	1	M8270C	5/23/2017	5/25/2017	NJC	- 1
1-Methyl naphthalene	0.153	mg/kg	0.0203	0.0645	1	M8270C	5/23/2017	5/25/2017	NJC	1
2-Methyl naphthalene	0.203	mg/kg	0.0113	0.0358	İ	M8270C	5/23/2017	5/25/2017	NJC	1
Naphthalene	0.094	mg/kg	0.0153	0.0486	1	M8270C	5/23/2017	5/25/2017	NJC	1
Phenanthrene	0.133	mg/kg	0.0111	0.0352	l	M8270C	5/23/2017	5/25/2017	NJC	Ī
Pyrene	0.06	mg/kg	0.0153	0.0487]	M8270C	5/23/2017	5/25/2017	NJC	ı
PVOC										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		5/22/2017	TCC	1
Ethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		5/22/2017	TCC	I
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	ı	GRO95/8021		5/22/2017	TCC	I
Toluene	0.032 "J"	mg/kg	0.014	0.046	1	GRO95/8021		5/22/2017	TCC	1
1,2,4-Trimethylbenzene	0.0254 "J"	mg/kg	0.01	0.032	1	GRO95/8021		5/22/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		5/22/2017	TCC	1
m&p-Xylene	0.063	mg/kg	0.012	0.037	1	GRO95/8021		5/22/2017	TCC	l
o-Xylene	0.039 "J"	mg/kg	0.015	0.047	1	GRO95/8021		5/22/2017	TCC	1

Project Name AMBERG OIL Invoice # E32925

Project #

Lab Code 5032925M Sample ID G-6-3 Sample Matrix Soil

Sample Date 5/15/2017

•	Result	Unit	LOD I	.OQ Di]	Method	Ext Date	Run Date	Analyst	Code
General							4			
General										
Solids Percent	86.9	%			ſ	5021		5/19/2017	NJC]
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		5/23/2017	TCC	1
Ethylbenzene	0.067	mg/kg	0.01	0.032	ì	GRO95/8021		5/23/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		5/23/2017	TCC	1
Naphthalene	7.7	mg/kg	0.022	0.07	l	GRO95/8021		5/23/2017	TCC	I
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		5/23/2017	TCC	l
1,2,4-Trimethylbenzene	0.43	mg/kg	0.01	0.032	1	GRO95/8021		5/23/2017	TCC	1
1,3,5-Trimethylbenzene	0.91	mg/kg	0.011	0.036	j	GRO95/8021		5/23/2017	TCC	1
m&p-Xylene	0.138	mg/kg	0.012	0.037	1	GRO95/8021		5/23/2017	TCC	1
o-Xylene	0.112	mg/kg	0.015	0.047	1	GRO95/8021		5/23/2017	TCC	Ţ

Invoice# E32925

Project Name AMBERG OIL

Project #

Lab Code

5032925N

Sample ID G-7-1 Sample Matrix Soil

Sample Date 5/15/2017

Sample Date 3/1	5,201,	Result	Unit	LOD I	LOQ D	il	Method	Ext Date	Run Date	Analyst	Code
General											
General											
Solids Percent		94.9	%			1	5021		5/19/2017	NJC	1
Inorganic											
Metals											
		2.02		0.17	0.50		6010B		5/05/0017	CWT	1
Lead, Total		2.93	mg/Kg	0.17	0.58	1	0010B		5/25/2017	CWI	1
Organic											
PAH SIM											
Acenaphthene		< 0.0151	mg/kg	0.0151	0.0481	1	M8270C	5/23/2017	5/25/2017	NJC	ī
Acenaphthylene		< 0.0159	mg/kg	0.0159	0.0508	l	M8270C	5/23/2017	5/25/2017	NJC	ı
Anthracene		< 0.0109	mg/kg	0.0109	0.0345	1	M8270C	5/23/2017	5/25/2017	NJC	1
Benzo(a)anthracene		< 0.0116	mg/kg	0.0116	0.037	1	M8270C	5/23/2017	5/25/2017	NJC	1
Benzo(a)pyrene		< 0.0113	mg/kg	0.0113	0.0359	I	M8270C	5/23/2017	5/25/2017	NJC	1
Benzo(b)fluoranthene		< 0.013	mg/kg	0.013	0.041	l	M8270C	5/23/2017	5/25/2017	NJC	ì
Benzo(g,h,i)perylene		< 0.0114	mg/kg	0.0114	0.036	1	M8270C	5/23/2017	5/25/2017	NJC	1
Benzo(k)fluoranthene		< 0.0147	mg/kg	0.0147	0.0469	1	M8270C	5/23/2017	5/25/2017	NJC	l
Chrysene		< 0.0121	mg/kg	0.0121	0.0383	1	M8270C	5/23/2017	5/25/2017	NJC	1
Dibenzo(a,h)anthracene		< 0.0078	mg/kg	0.0078	0.0251	1	M8270C	5/23/2017	5/25/2017	NJC	1
Fluoranthene		< 0.0147	mg/kg	0.0147	0.0469	1	M8270C	5/23/2017	5/25/2017	NJC	1
Fluorene		< 0.0179	mg/kg	0.0179	0.057	I	M8270C	5/23/2017	5/25/2017	NJC	1
Indeno(1,2,3-cd)pyrene		< 0.0114	mg/kg	0.0114	0.0362	1	M8270C	5/23/2017	5/25/2017	ИJС	1
1-Methyl naphthalene		< 0.0203	mg/kg	0.0203	0.0645	1	M8270C	5/23/2017	5/25/2017	ИЗС	1
2-Methyl naphthalene		< 0.0113	mg/kg	0.0113	0.0358	ı	M8270C	5/23/2017	5/25/2017	NJC	l
Naphthalene		< 0.0153	mg/kg	0.0153	0.0486	1	M8270C	5/23/2017	5/25/2017	NJC	1
Phenanthrene		< 0.0111	mg/kg	0.0111	0.0352	1	M8270C	5/23/2017	5/25/2017	NJC	1
Pyrene		< 0.0153	mg/kg	0.0153	0.0487	1	M8270C	5/23/2017	5/25/2017	NJC	1
PVOC											
Benzene		< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		5/23/2017	TCC	ł
Ethylbenzene		< 0.025	mg/kg	0.01	0.032	1	GRQ95/8021		5/23/2017	TCC	Į
Methyl tert-butyl ether (N	ATBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		5/23/2017	TCC	1
Toluene		< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		5/23/2017	TCC	1
1,2,4-Trimethylbenzene		< 0.025	mg/kg	0.01	0.032	į	GRO95/8021		5/23/2017	TCC]
1,3,5-Trimethylbenzene		< 0.025	mg/kg	0.011	0.036	I	GRO95/8021		5/23/2017	TCC	1
m&p-Xylene		< 0.05	mg/kg	0.012	0.037	1	GRO95/8021		5/23/2017	TCC	l
o-Xylene		< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		5/23/2017	TCC	1

Invoice # E32925

Project Name AMBERG OIL

Project #

Lab Code 50329250 Sample ID G-7-3 Sample Matrix Soil Sample Date 5/15/2017

Sample Date	5/15/2017										
-		Result	Unit	LOD	LOQ D	il	Method	Ext Date	Run Date	Analyst	Code
General											
General											
Solids Percent		88.0	%			1	5021		5/19/2017	NJC	1
Organic											
PVOC + Napl	nthalene										
Benzene		0.48 "J"	mg/kg	0.19	0.6	10	GRO95/8021		5/23/2017	TCC	1
Ethylbenzene		0.82	mg/kg	0.1	0.32	10	GRO95/8021		5/23/2017	TCC	l
Methyl tert-butyl e	ther (MTBE)	< 0.25	mg/kg	0.079	0.25	10	GRO95/8021		5/23/2017	TCC	1
Naphthalene	, ,	4.6	mg/kg	0.22	0.7	10	GRO95/8021		5/23/2017	TCC	1
Toluene		< 0.25	mg/kg	0.14	0.46	10	GRO95/8021		5/23/2017	TCC	1
1,2,4-Trimethylber	nzene	31	mg/kg	0.1	0.32	10	GRO95/8021		5/23/2017	TCC	1
1,3,5-Trimethylber	nzene	14	mg/kg	0.11	0.36	10	GRO95/8021		5/23/2017	TCC	1
m&p-Xylene		3.5	mg/kg	0.12	0.37	10	GRO95/8021		5/23/2017	TCC	1
o-Xylene		0.88	mg/kg	0.15	0.47	10	GRO95/8021		5/23/2017	TCC	1

Project #

Lab Code 5032925P G-9-1 Sample ID Sample Matrix Soil
Sample Date 5/15/ 5/15/2017

Sample Date	3/13/2017	Result	Unit	LOD I	LOQ D	i l	Method	Ext Date	Run Date	Analyst	Code
General		***************************************								-	
General											
		94.9	%			1	5021		5/19/2017	NJC	1
Solids Percent		94.9	70			•	3021		5775-577		
Inorganic											
Metals											
Lead, Total		4.77	mg/Kg	0.17	0.58	ł	6010B		5/25/2017	CWT	1
Organic											
PAH SIM											
Acenaphthene		< 0.0151	mg/kg	0.0151	0.0481	1	M8270C	5/23/2017	5/26/2017	NJC	1
Acenaphthylene		0.0291 "J"	mg/kg	0.0159	0.0508	1	M8270C	5/23/2017	5/26/2017	NJC	1
Anthracene		0.0164 "J"	mg/kg	0.0109	0.0345	1	M8270C	5/23/2017	5/26/2017	NJC	1
Benzo(a)anthracene		0.034 "J"	mg/kg	0.0116	0.037	I	M8270C	5/23/2017	5/26/2017	NJC	1
Benzo(a)pyrene		0.038	mg/kg	0.0113	0.0359	1	M8270C	5/23/2017	5/26/2017	NJC	1
Benzo(b)fluoranther	зе	0.058	mg/kg	0.013	0.041]	M8270C	5/23/2017	5/26/2017	NJC	1
Benzo(g,h,i)perylen		0.094	mg/kg	0.0114	0.036	1	M8270C	5/23/2017	5/26/2017	NJC	1
Benzo(k)fluoranther		0.0191 "J"	mg/kg	0.0147	0.0469	l	M8270C	5/23/2017	5/26/2017	NJC	l
Chrysene		0.04	mg/kg	0.0121	0.0383	1	M8270C	5/23/2017	5/26/2017	NJC	i
Dibenzo(a,h)anthrac	ene	0.0163 "J"	mg/kg	0.0078	0.0251	1	M8270C	5/23/2017	5/26/2017	NJC	<u> </u>
Fluoranthene		0.0293 "J"	mg/kg	0.0147	0.0469	ł	M8270C	5/23/2017	5/26/2017	NJC	1
Fluorene		< 0.0179	mg/kg	0.0179	0.057	l	M8270C	5/23/2017	5/26/2017	NJC	J
Indeno(1,2,3-cd)pyr	ene	0.047	mg/kg	0.0114	0.0362	1	M8270C	5/23/2017	5/26/2017	NJC	ž
1-Methyl naphthaler		0.197	mg/kg	0.0203	0.0645	ł	M8270C	5/23/2017	5/26/2017	NJC	1
2-Methyl naphthaler		0.206	mg/kg	0.0113	0.0358	- 1	M8270C	5/23/2017	5/26/2017	NJC	1
Naphthalene		0.06	mg/kg	0.0153	0.0486	1	M8270C	5/23/2017	5/26/2017	NJC	1
Phenanthrene		0.078	mg/kg	0.0111	0.0352	1	M8270C	5/23/2017	5/26/2017	NJC	l
Pyrene		0.048 "J"	mg/kg	0.0153	0.0487	ł	M8270C	5/23/2017	5/26/2017	NJC	1
PVOC											
Benzene		< 0.025	mg/kg	0.019	0.06	- 1	GRO95/8021		5/24/2017	TCC	Į.
Ethylbenzene		0.0254 "J"	mg/kg	0.01	0.032	Ī	GRO95/8021		5/24/2017	TCC	1
Methyl tert-butyl etl	ner (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		5/24/2017	TCC	1
Toluene	101 (22)	< 0.025	mg/kg	0.014	0.046	- 1	GRO95/8021		5/24/2017	TCC	!
1,2,4-Trimethylbenz	ene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		- 5/24/2017	TCC	1
1,3,5-Trimethylbenz		< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		5/24/2017	TCC	1
m&p-Xylene		< 0.05	mg/kg	0.012	0.037	1	GRO95/8021		5/24/2017	TCC	1
o-Xylene		< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		5/24/2017	TCC	i

Project #

Lab Code

5032925Q

Sample ID G-9-3 Sample Matrix Soil

Sample Date 5/15/2017

Sample Date 5/15/	Result	Unit	LOD L	OQ D	il	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	84.9	%			l	5021		5/19/2017	. NJC	1
Organic										
PVOC + Naphthalen	e									
Benzene	< 0.125	mg/kg	0.095	0.3	5	GRO95/8021		5/25/2017	TCC	1
Ethylbenzene	< 0.125	mg/kg	0.05	0.16	5	GRO95/8021		5/25/2017	TCC	i
Methyl tert-butyl ether (M)	(BE) < 0.125	mg/kg	0.0395	0.125	5	GRO95/8021		5/25/2017	TCC	[
Naphthalene	3.2	mg/kg	0.11	0.35	5	GRO95/8021		5/25/2017	TCC	l
Toluene	0.131 "J"	mg/kg	0.07	0.23	5	GRO95/8021		5/25/2017	TCC	1
1,2,4-Trimethylbenzene	2,15	mg/kg	0.05	0.16	5	GRO95/8021		5/25/2017	TCC	l
1,3,5-Trimethylbenzene	1.61	mg/kg	0.055	0.18	5	GRO95/8021		5/25/2017	TCC	l
m&p-Xylene	0.49	mg/kg	0.06	0.185	5	GRO95/8021		5/25/2017	TCC	1
o-Xylene	0.175 "J"	mg/kg	0.075	0.235	5	GRO95/8021		5/25/2017	TCC	1

Project #

Lab Code

5032925R

Sample ID Sample Matrix Soil

G-10-1

Sample Date 5/15/2017

Sumple Date 3/10/2011	Result	Unit	LOD I	LOQ D	il	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	94.0	%			1	5021		5/19/2017	NJC	1
Inorganic										
Metals										
Lead, Total	204	mg/Kg	0.17	0.58	1	6010B		5/25/2017	CWT	1
Organic										
PAH SIM										
Acenaphthene	< 0.0151	mg/kg	0.0151	0.0481	1	M8270C	5/23/2017	5/26/2017	NJC	1
Acenaphthylene	< 0.0159	mg/kg	0.0159	0.0508	i	M8270C	5/23/2017	5/26/2017	NJC	1
Anthracene	< 0.0109	mg/kg	0.0109	0.0345	1	M8270C	5/23/2017	5/26/2017	NJC	l
Benzo(a)anthracene	< 0.0116	mg/kg	0.0116	0.037	1	M8270C	5/23/2017	5/26/2017	NJC	1
Benzo(a)pyrene	< 0.0113	mg/kg	0.0113	0.0359	1	M8270C	5/23/2017	5/26/2017	NJC	1
Benzo(b)fluoranthene	< 0.013	mg/kg	0.013	0.041	1	M8270C	5/23/2017	5/26/2017	NJC	1
Benzo(g,h,i)perylene	< 0.0114	mg/kg	0.0114	0.036	1	M8270C	5/23/2017	5/26/2017	NJC]
Benzo(k)fluoranthene	< 0.0147	mg/kg	0.0147	0.0469	1	M8270C	5/23/2017	5/26/2017	NJC	1
Chrysene	< 0.0121	mg/kg	0.0121	0.0383	1	M8270C	5/23/2017	5/26/2017	NJC]
Dibenzo(a,h)anthracene	< 0.0078	mg/kg	0.0078	0.0251	i	M8270C	5/23/2017	5/26/2017	NJC	1
Fluoranthene	< 0.0147	mg/kg	0.0147	0.0469	1	M8270C	5/23/2017	5/26/2017	NJC	1
Fluorene	< 0.0179	mg/kg	0.0179	0.057	[M8270C	5/23/2017	5/26/2017	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0114	mg/kg	0.0114	0.0362	l	M8270C	5/23/2017	5/26/2017	ИЈС	J
1-Methyl naphthalene	< 0.0203	mg/kg	0.0203	0.0645	l	M8270C	5/23/2017	5/26/2017	NJC	1
2-Methyl naphthalene	< 0.0113	mg/kg	0.0113	0.0358	1	M8270C	5/23/2017	5/26/2017	NJC	1
Naphthalene	< 0.0153	mg/kg	0.0153	0.0486	l	M8270C	5/23/2017	5/26/2017	NJC	1
Phenanthrene	< 0.0111	mg/kg	0.0111	0.0352	l	M8270C	5/23/2017	5/26/2017	NJC	1
Pyrene	< 0.0153	mg/kg	0.0153	0.0487	1	M8270C	5/23/2017	5/26/2017	NJC	1
PVOC		<i>- - - - - - - - - -</i>								
Benzene	< 0.025	mg/kg	0.019	0.06	- 1	GRQ95/8021		5/24/2017	TCC	1
Ethylbenzene	< 0.025	mg/kg	0.01	0.032	i	GRO95/8021		5/24/2017	TCC	}
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		5/24/2017	TCC	ŀ
Toluene	< 0.025	mg/kg	0.014	0.046	í	GRQ95/8021		5/24/2017	TCC	t
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.01	0.032	í	GRO95/8021		5/24/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	110.0	0.036	1	GRO95/8021		5/24/2017	TCC	1
m&p-Xylene	< 0.023	mg/kg	0.011	0.037	i	GRO95/8021		5/24/2017	TCC	l
o-Xylene	< 0.025	mg/kg	0.012	0.047	i	GRO95/8021		5/24/2017	TCC	1
U-Aylene	~ V.VZJ	<i>8</i> ~ 8	0.015	5.577	•					

Ext Date Run Date Analyst Code

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5/24/2017

Project Name AMBERG OIL Project # Lab Code 5032925S Sample ID G-10-2 Sample Matrix Soil Sample Date 5/15/2017 Unit LOD LOQ Dil Method Result General General Solids Percent 87.1 % 5021 Organic PVOC + Naphthalene Benzene < 0.025 mg/kg 0.019 0.06 I GRO95/8021 Ethylbenzene GRO95/8021 < 0.025 0.01 0.032 mg/kg 1 Methyl tert-butyl ether (MTBE) < 0.025 0.0079 0.025 GRO95/8021 mg/kg 1 Naphthalene < 0.025 mg/kg 0.022 0.07 1 GRO95/8021 Toluene < 0.025 mg/kg 0.014 0.046 GRO95/8021 1 1,2,4-Trimethylbenzene mg/kg GRO95/8021 < 0.025 10.0 0.032 1,3,5-Trimethylbenzene < 0.025 mg/kg 0.011 0.036 GRO95/8021 1 m&p-Xylene < 0.05 mg/kg 0.012 0.037 1 GRO95/8021 o-Xylene < 0.025 mg/kg 0.015 0.047 1 GRO95/8021

Sample Date	3/13/2017										
		Result	Unit	LOD I	LOQ J	Dil	Method	Ext Date	Run Date	Analyst	Code
General	•										
General											
Solids Percent		85.9	%			1	5021		5/19/2017	NJC	1
Organic											
PVOC + Naph	ithalene										
Benzene		< 0.125	mg/kg	0.095	0.3	5	GRO95/8021		5/25/2017	TCC	1
Ethylbenzene		< 0.125	mg/kg	0.05	0.16	5	GRO95/8021		5/25/2017	TCC	1
Methyl tert-butyl e	ther (MTBE)	< 0.125	mg/kg	0.0395	0.125	5	GRO95/8021		5/25/2017	TCC	1
Naphthalene		6.0	mg/kg	0.11	0.35	5	GRO95/8021		5/25/2017	TCC	1
Toluene		"U" 61.0	mg/kg	0.07	0.23	5	GRO95/8021		5/25/2017	TCC	1
1,2,4-Trimethylben	izene	0.52	mg/kg	0.05	0.16	5	GRO95/8021		5/25/2017	TCC	1
1,3,5-Trimethylben	izene	0.71	mg/kg	0.055	0.18	5	GRO95/8021		5/25/2017	TCC	1
m&p-Xylene		0.40	mg/kg	0.06	0.185	5	GRO95/8021		5/25/2017	TCC	1
o-Xylene		0.161 "J"	mg/kg	0.075	0.235	5	GRO95/8021		5/25/2017	TCC	1

Project #

Lab Code 5032925U Sample ID G-12-1 Sample Matrix Soil
Sample Date 5/15 5/15/2017

Sample Date	5/15/2017	Result	Unit	LOD	LOQ Di	1	Method	Ext Date	Run Date	Analyst	Code
General											
General											
Solids Percent		91.2	%			1	5021		5/19/2017	NJC	I
Inorganic											
-											
Metals		66.7	mg/Kg	0.17	0.58	1	6010B		5/25/2017	CWT	i
Lead, Total		66.7	mg/Kg	0.17	0.50	•	00101		3,23,20.,	•	•
Organic											
PAH SIM											
Acenaphthene		< 0.0151	mg/kg	0.0151	0.0481	1	M8270C	5/23/2017	5/26/2017	NJC	l 1
Acenaphthylene		0,03 "J"	mg/kg	0.0159		1	M8270C	5/23/2017	5/26/2017	NJC	1
Anthracene		0.0219 "J"	mg/kg	0.0109	0.0345	ŀ	M8270C	5/23/2017	5/26/2017	NJC NJC	1
Benzo(a)anthracen	e	0.046	mg/kg	0.0116	0.037	1	M8270C	5/23/2017	5/26/2017	NJC	1
Benzo(a)pyrene		0.064	mg/kg	0.0113	0.0359	Į.	M8270C	5/23/2017	5/26/2017	NJC	1
Benzo(b)fluoranthe		0.074	mg/kg	0.013	0.041	ı.	M8270C	5/23/2017	5/26/2017 5/26/2017	NJC] }
Benzo(g,h,i)perylei		0.128	mg/kg	0.0114	0.036	1	M8270C	5/23/2017 5/23/2017	5/26/2017	NJC NJC	I I
Benzo(k)fluoranthe	ene	0.0182 "J"	mg/kg	0.0147	0.0469	ı	M8270C M8270C	5/23/2017	5/26/2017	NJC	1
Chrysene		0.062	mg/kg	0.0121	0.0383	ı.	M8270C M8270C	5/23/2017	5/26/2017	NJC	,
Dibenzo(a,h)anthra	icene	0.0192 "J"	mg/kg	0.0078	0.0251	1	M8270C M8270C	5/23/2017	5/26/2017	NJC	1
Fluoranthene		0.045 "J"	mg/kg	0.0147	0.0469 0.057	j į	M8270C M8270C	5/23/2017	5/26/2017	NJC	ı İ
Fluorene		< 0.0179	mg/kg	0.0179	0.037	1	M8270C M8270C	5/23/2017	5/26/2017	NJC	1 .
Indeno(1,2,3-cd)py		0.064	mg/kg	0.0114	0.0362	1	M8270C M8270C	5/23/2017	5/26/2017	NJC	i
1-Methyl naphthale		0.159	mg/kg	0.0203	0.0043	1	M8270C M8270C	5/23/2017	5/26/2017	NJC	İ
2-Methyl naphthale	ene	0.24	mg/kg	0.0113	0.0338	,	M8270C	5/23/2017	5/26/2017	NJC	i
Naphthalene		0.094 0.113	mg/kg mg/kg	0.0133	0.0480	i	M8270C	5/23/2017	5/26/2017	NJC	i
Phenanthrene		0.079	mg/kg	0.0111	0.0332	i	M8270C	5/23/2017	5/26/2017	NJC	i
Pyrene		0.079	mg/kg	0.0133	0.0407	,	14102700	512372017	2.20,		
PVOC			a	0.010	0.07		CD 005/0031		5/24/2017	TCC	1
Benzene		< 0.025	mg/kg	0.019		l 1	GRO95/8021 GRO95/8021		5/24/2017	TCC	ş
Ethylbenzene		< 0.025	mg/kg	10.0	0.032	1	GRO95/8021		5/24/2017	TCC	i I
Methyl tert-butyl e	ther (MTBE)	< 0.025	mg/kg	0.0079	0.025 0.046	1	GRO95/8021		5/24/2017	TCC	i
Toluene		< 0.025	mg/kg	0.014 0.01	0.040	1	GRO95/8021		5/24/2017	TCC	i
1,2,4-Trimethylben		< 0.025 < 0.025	mg/kg	0.01	0.032	1	GRO95/8021		5/24/2017	TCC	i
1,3,5-Trimethylben	izene	< 0.023	mg/kg mg/kg	0.011	0.030	ī	GRO95/8021		5/24/2017	TCC	i
m&p-Xylene		< 0.05	mg/kg	0.012	0.037	i	GRO95/8021		5/24/2017	TCC	i
o-Xylene		< 0.025	mg/kg	0.015	0.047	•	G11075/0021		5.2.,2011		

Project Name AMBERG OIL Invoice # E32925

Project #

Lab Code5032925VSample IDG-12-3Sample MatrixSoilSample Date5/15/2017

•	Result	Unit	LOD I	LOQ D	il	Method	Ext Date	Run Date	Analyst	Code
General									, many se	Couc
General										
Solids Percent	87.2	%]	5021		5/19/2017	NJC	1
Organic										•
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.019	0.06	ı	GRO95/8021		5/26/2017	TCC	1
Ethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		5/26/2017	TCC	i
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		5/26/2017	TCC	1
Naphthalene	0.93	mg/kg	0.022	0.07	1	GRO95/8021		5/26/2017	TCC	i
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		5/26/2017	TCC	Ī
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		5/26/2017	TCC	i
I,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		5/26/2017	TCC	ī
m&p~Xylene	< 0.05	mg/kg	0.012	0.037]	GRO95/8021		5/26/2017	TCC	i
o-Xylene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		5/26/2017	TCC	j

Project #

Lab Code Sample ID 5032925W

G-13-1 Sample Matrix Soil
Sample Date 5/15 5/15/2017

Sample Date 3/13/2017	Result	Unit	LOD I	LOQ D	il	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	93.1	%			1	5021		5/19/2017	NJC	1
	,,,,									
Inorganic										
Metals			0.15	0.50		(010t)		c /0 c /0 0 1 7	CWT	1
Lead, Total	90.2	mg/Kg	0.17	0.58	ı	6010B		5/25/2017	CWI	
Organic										
PAH SIM										
Acenaphthene	< 0.0151	mg/kg	0.0151	0.0481	1	M8270C	5/23/2017	5/26/2017	NJC	1
Acenaphthylene	< 0.0159	mg/kg	0.0159	0.0508	1	M8270C	5/23/2017	5/26/2017	NJC	1
Anthracene	< 0.0109	mg/kg	0.0109	0.0345	1	M8270C	5/23/2017	5/26/2017	NJC	1
Benzo(a)anthracene	0.0139 "J"	mg/kg	0.0116	0.037	1	M8270C	5/23/2017	5/26/2017	NJC	1
Benzo(a)pyrene	< 0.0113	mg/kg	0.0113	0.0359	1	M8270C	5/23/2017	5/26/2017	NJC	l
Benzo(b)fluoranthene	< 0.013	mg/kg	0.013	0.041	1	M8270C	5/23/2017	5/26/2017	NJC	1
Benzo(g,h,i)perylene	< 0.0114	mg/kg	0.0114	0.036	1	M8270C	5/23/2017	5/26/2017	NJC	l ,
Benzo(k)fluoranthene	< 0.0147	mg/kg	0.0147	0.0469	L	M8270C	5/23/2017	5/26/2017	NJC	1
Chrysene	< 0.0121	mg/kg	0.0121	0.0383	1	M8270C	5/23/2017	5/26/2017	NJC	į.
Dibenzo(a,h)anthracene	< 0.0078	mg/kg	0.0078	0.0251	1	M8270C	5/23/2017	5/26/2017	NJC	!
Fluoranthene	< 0.0147	mg/kg	0.0147	0.0469	1	M8270C	5/23/2017	5/26/2017	NJC	1
Fluorene	< 0.0179	mg/kg	0.0179	0.057		M8270C	5/23/2017	5/26/2017	NJC NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0114	mg/kg	0.0114	0.0362	I	M8270C	5/23/2017	5/26/2017 5/26/2017	NJC	í
1-Methyl naphthalene	< 0.0203	mg/kg	0.0203	0.0645	ı,	M8270C	5/23/2017	5/26/2017	NJC	1
2-Methyl naphthalene	< 0.0113	mg/kg	0.0113	0.0358	1	M8270C	5/23/2017 5/23/2017	5/26/2017	NJC	1
Naphthalene	< 0.0153	mg/kg	0.0153	0.0486	ì	M8270C M8270C	5/23/2017	5/26/2017	NJC	1
Phenanthrene	< 0.0111	mg/kg	0.0111	0.0352 0.0487	l I	M8270C M8270C	5/23/2017	5/26/2017	NJC	,
Pyrene	< 0.0153	mg/kg	0.0153	0.0467	ı	1V16270C	312312017	3/20/2017	1430	•
PVOC								- /2 / /2 / / 7	moc.	,
Benzene	< 0.025	mg/kg	0.019	0.06	ł	GRO95/8021		5/24/2017	TCC TCC	1
Ethylbenzene	< 0.025	mg/kg	0.01	0.032	l ,	GRO95/8021		5/24/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	!	GRO95/8021		5/24/2017 5/24/2017	TCC	
Toluene	< 0.025	mg/kg	0.014	0.046	l 1	GRO95/8021		5/24/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		5/24/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	l 1	GRO95/8021 GRO95/8021		5/24/2017	TCC	ŀ
m&p-Xylene	< 0.05	mg/kg	0.012	0.037 0.047	l 1	GRO95/8021		5/24/2017	TCC	i
o-Xylene	< 0.025	mg/kg	0.015	0.047	1	GROS3/8021		312412017	100	,

Project #

m&p-Xylene o-Xylene

Lab Code 5032925X Sample ID G-13-3 Sample Matrix Soil Sample Date 5/15/2017

Sample Date	5/15/2017										
		Result	Unit	LOD 1	LOQ Dil		Method	Ext Date	Run Date	Analyst	Code
General										•	
General											
Solids Percent		86.3	%]	5021		5/19/2017	NJC	1
Organic											
PVOC + Naph	thalene										
Benzene		< 0.025	mg/kg	0.019	0.06	l	GRO95/8021		5/24/2017	TCC	ì
Ethylbenzene		< 0.025	mg/kg	0.01	0.032	l	GRO95/8021		5/24/2017	TCC	ı
Methyl tert-butyl e	ther (MTBE)	< 0.025	mg/kg	0.0079	0.025	l	GRO95/8021		5/24/2017	TCC	1
Naphthalene		< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		5/24/2017	TCC	1
Toluene		< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		5/24/2017	TCC	1
1,2,4-Trimethylber		< 0.025	mg/kg	10.0	0.032	I	GRO95/8021		5/24/2017	TCC	1
1,3,5-Trimethylber	izene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		5/24/2017	TCC	ì
m&p-Xylene		< 0.05	mg/kg	0.012	0.037	1	GRO95/8021		5/24/2017	TCC	1
o-Xylene		< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		5/24/2017	TCC	1
Lab Code Sample ID Sample Matrix	5032925Y G-14-3 Soil										
Sample Date	5/15/2017										
		Result	Unit	LOD I	LOQ Dil		Method	Ext Date	Run Date	Analyst	Code
General										*	
General											
Solids Percent		84.4	%			1	5021		5/19/2017	NJC	1
Organic											
PVOC + Naph	thalene										
Benzene		< 0.025	mg/kg	0.019	0.06	[GRO95/8021		5/24/2017	TCC	i
Ethylbenzene		< 0.025	mg/kg	0.01	0.032	I	GRO95/8021		5/24/2017	TCC	1
Methyl tert-butyl et	ther (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		5/24/2017	TCC	1
Naphthalene		< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		5/24/2017	TCC	I
Toluene		< 0.025	mg/kg	0.014	0.046]	GRO95/8021		5/24/2017	TCC	1
1,2,4-Trimethylben		< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		5/24/2017	TCC	1
1,3,5-Trimethylben	zene	< 0.025	mg/kg	0.011	0.036	l	GRO95/8021		5/24/2017	TCC	į.
m&n-Xylene		< 0.05	mo/ko	0.012	0.037	1	GRO95/8021		5/24/2017	TCC	1

mg/kg mg/kg mg/kg

0.012

0.015

0.037

I GRO95/8021

0.047 1 GRO95/8021

< 0.05

< 0.025

TCC TCC

TCC

5/24/2017

5/24/2017

Project Name AMBERG OIL
Project #

Lab Code 5032925Z
Sample ID G-15-3
Sample Matrix Soil
Sample Date 5/15/2017

R
General

	Result	Unit	LOD I	.OQ Dil	OQ Dil Method		Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	85.6	%			1	5021		5/19/2017	NJC	l
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.019	0.06	l	GRO95/8021		5/24/2017	TCC	1
Ethylbenzene	< 0.025	mg/kg	0.01	0.032	l	GRO95/8021		5/24/2017	TCC	I
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		5/24/2017	TCC	1
Naphthalene	< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		5/24/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	Ī	GRO95/8021		5/24/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.01	0.032	E	GRO95/8021	•	5/24/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	ı	GRO95/8021		5/24/2017	TCC	1
m&p-Xylene	< 0.05	mg/kg	0.012	0.037	1	GRO95/8021		5/24/2017	TCC	1
o-Xylene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		5/24/2017	TCC	l

Lab Code532925AASample IDG-17-3Sample MatrixSoilSample Date5/15/2017

TS 14									
Result	Unit	LOD L	LOD LOQ Dil M		Method	Ext Date	Run Date	Analyst	Code
	•								
84.2	%			ŀ	5021		5/19/2017	NJC	1
e									
< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		5/26/2017	TCC	1
0.037	mg/kg	0.01	0.032	1	GRO95/8021		5/26/2017	TCC	1
TBE) < 0.025	mg/kg	0.0079	0.025	3	GRO95/8021		5/26/2017	TCC	1
3.3	mg/kg	0.022	0.07	Į	GRO95/8021		5/26/2017	TCC	J
0.047	mg/kg	0.014	0.046	1	GRO95/8021		5/26/2017	TCC	1
0.54	mg/kg	0.01	0.032	- 1	GRO95/8021		5/26/2017	TCC	1
0.33	mg/kg	0.011	0.036	- 1	GRO95/8021		5/26/2017	TCC	I
0.177	mg/kg	0.012	0.037	1	GRO95/8021		5/26/2017	TCC	l
0.055	mg/kg	0.015	0.047	1	GRO95/8021		5/26/2017	TCC	- 1
	e < 0.025 0.037 (0.025 3.3 0.047 0.54 0.33 0.177	84.2 % e < 0.025 mg/kg 0.037 mg/kg 7BE) < 0.025 mg/kg 3.3 mg/kg 0.047 mg/kg 0.54 mg/kg 0.33 mg/kg 0.177 mg/kg 	84.2 % e < 0.025 mg/kg 0.019 0.037 mg/kg 0.01 TBE) < 0.025 mg/kg 0.0079 3.3 mg/kg 0.022 0.047 mg/kg 0.014 0.54 mg/kg 0.01 0.33 mg/kg 0.011 0.177 mg/kg 0.012 	84.2 % e 	84.2 % I e < 0.025 mg/kg 0.019 0.06 1 mg/kg 0.007 mg/kg 0.01 0.032 1 mg/kg 0.0079 0.025 1 mg/kg 0.0079 0.025 1 mg/kg 0.022 0.07 1 mg/kg 0.014 0.046 1 0.54 mg/kg 0.01 0.032 1 0.33 mg/kg 0.01 0.032 1 0.33 mg/kg 0.01 0.036 1 mg/kg 0.0177 mg/kg 0.012 0.037 1 	84.2	84.2 % I 5021 e < 0.025 mg/kg 0.019 0.06 1 GRO95/8021 0.037 mg/kg 0.01 0.032 1 GRO95/8021 (0.025 mg/kg 0.0079 0.025 1 GRO95/8021 (3.3 mg/kg 0.022 0.07 I GRO95/8021 (0.047 mg/kg 0.014 0.046 I GRO95/8021 (0.54 mg/kg 0.01 0.032 I GRO95/8021 (0.33 mg/kg 0.011 0.036 I GRO95/8021 (0.33 mg/kg 0.011 0.036 I GRO95/8021 (0.37 mg/kg 0.012 0.037 I GRO95/8021 	84.2 % I 5021 5/19/2017 e	84.2 % I 5021 5/19/2017 NJC e < 0.025 mg/kg 0.019 0.06 1 GRO95/8021 5/26/2017 TCC 0.037 mg/kg 0.01 0.032 1 GRO95/8021 5/26/2017 TCC TBE) < 0.025 mg/kg 0.0079 0.025 1 GRO95/8021 5/26/2017 TCC 3.3 mg/kg 0.022 0.07 1 GRO95/8021 5/26/2017 TCC 0.047 mg/kg 0.014 0.046 1 GRO95/8021 5/26/2017 TCC 0.54 mg/kg 0.01 0.032 1 GRO95/8021 5/26/2017 TCC 0.54 mg/kg 0.01 0.032 1 GRO95/8021 5/26/2017 TCC 0.33 mg/kg 0.01 0.032 1 GRO95/8021 5/26/2017 TCC 0.33 mg/kg 0.01 0.036 1 GRO95/8021 5/26/2017 TCC 0.177 mg/kg 0.012 0.037 1 GRO95/8021 5/26/2017 TCC

Project Name A	AMBERU O	IL				, III	nee			
Lab Code Sample ID Sample Matrix Sample Date	532925BB TRIP BLAN Water 5/15/2017	NK Result	Unit	LOD L	OO Dil	Method	Ext Date	Run Date	Analyst	Code
Organic		1100011	•						-	
PVOC + Naph	thalene									
Benzene Ethylbenzene Methyl tert-butyl et Naphthalene Toluene 1,2,4-Trimethylben 1,3,5-Trimethylben m&p-Xylene o-Xylene	her (MTBE) zene	< 0.17 < 0.2 < 0.82 < 2.17 < 0.67 < 1.14 < 0.91 < 1.56 < 0.39	ug/l ug/l ug/l ug/l ug/l ug/l ug/l	0.17 0.2 0.82 2.17 0.67 1.14 0.91 1.56 0.39	0.55 1 0.63 1 2.6 1 6.9 1 2.13 1 3.63 1 2.9 1 4.95 1 1.25 1	8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B		5/19/2017 5/19/2017 5/19/2017 5/19/2017 5/19/2017 5/19/2017 5/19/2017 5/19/2017	TCC TCC TCC TCC TCC TCC TCC TCC TCC TCC	1 1 1 1 1 1
Lab Code Sample ID Sample Matrix Sample Date	532925CC G-1-W Water 5/15/2017	Result	Unit	LOD L	OO Dil	Method	Ext Date	Run Date	Analyst	Code
Ousania		Result	OHIL	LOD E	OQ DII	Method	Ext Date	Run Bute	Timaryse	0000
Organic	thalana									
PVOC + Naph: Benzene Ethylbenzene Methyl tert-butyl et Naphthalene Toluene 1,2,4-Trimethylben: nt&p-Xylene o-Xylene	her (MTBE) zene	0.31 "J" 141 < 0.82 450 39 1030 283 810 480		0.17 2 0.82 21.7 6.7 11.4 9.1 15.6 3.9	0.55 1 6.3 10 2.6 1 69 10 21.3 10 36.3 10 29 10 49.5 10 12.5 10	8260B 8260B		5/19/2017 5/24/2017 5/19/2017 5/24/2017 5/24/2017 5/24/2017 5/24/2017 5/24/2017	TCC CJR TCC CJR CJR CJR CJR CJR CJR	1 1 1 1 1 1
Lab Code Sample ID Sample Matrix Sample Date	532925DD G-2-W Water 5/15/2017				00 74	7.5 A	End Date	Day Date	Amoleint	Code
		Result	Unit	LOD L	ווע טָט	Method	Ext Date	Run Date	Anaiyst	Coue
Organic PVOC + Naph Benzene Ethylbenzene Methyl tert-butyl et Naphthalenc Toluene 1,2,4-Trimethylben 1,3,5-Trimethylben m&p-Xylene o-Xylene	ther (MTBE) zene	<0.17 <0.2 <0.82 <2.17 5.0 <1.14 <0.91 <1.56 <0.39	සද/l පද/l පද/l පද/l පද/l පද/l පද/l පද/l	0.17 0.2 0.82 2.17 0.67 1.14 0.91 1.56 0.39	0.55 1 0.63 1 2.6 1 6.9 1 2.13 1 3.63 1 2.9 1 4.95 1 1.25 1	8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B	·	5/23/2017 5/23/2017 5/23/2017 5/23/2017 5/23/2017 5/23/2017 5/23/2017 5/23/2017	CJR CJR CJR CJR CJR CJR CJR CJR CJR CJR	1 1 1 1 1 1

Project # 532925EE Lab Code Sample ID G-3-W Sample Matrix Water 5/15/2017 Sample Date LOD LOQ Dil Method Ext Date Run Date Analyst Code Unit Result Organic PVOC + Naphthalene TCC 149 5/19/2017 5 8260B < 0.85 0.85 2.75 Benzene ug/l 1 49 3.15 5 8260B 5/19/2017 TCC Ethylbenzene < [ug/l TCC 1 49 5 8260B 5/19/2017 4.1 13 Methyl tert-butyl ether (MTBE) < 4.1 ug/l 5/19/2017 TCC 149 10.85 34.5 5 8260B < 10.85 ug/l Naphthalene TCC 149 8260B 5/19/2017 3.35 10.65 5 4.8 "J" ug/i Toluene 5/19/2017 TCC 1 49 18.15 5 8260B 1.2.4-Trimethylbenzene < 5.7 ug/l 5.7 5/19/2017 TCC 149 5 8260B 4.55 14.5 < 4.55 ug/l 1,3,5-Trimethylbenzene 5 5/19/2017 TCC 1 49 8260B 7.8 24.75 < 7.8 ug/l m&p-Xylene TCC 149 5/19/2017 < 1.95 ug/l 1.95 6.25 5 8260B o-Xylene 532925FF Lab Code G-4-W Sample ID Water Sample Matrix 5/15/2017 Sample Date Ext Date Run Date Analyst Code Unit LOD LOQ Dil Method Result Organic PVOC + Naphthalene CJR 8260B 5/23/2017 ł 0.55 1 < 0.17 ug/l 0.17 Benzene CJR 8260B 5/23/2017 1 0.2 0.63 i < 0.2 ug/l Ethylbenzene 0.82 1 8260B 5/23/2017 CJR < 0.82 ug/l 2.6 Methyl tert-butyl ether (MTBE) CJR 6.9 8260B 5/23/2017 1 2.17 - [Naphthalene < 2.17 ug/l 8260B 5/23/2017 CJR 2.13 1 3.4 ug/l 0.67 Toluene CJR 3.63 [8260B 5/23/2017 1 < 1.14 1.14 ug/l 1,2,4-Trimethylbenzene 5/23/2017 CJR 8260B 0.91 2.9 - 1 1,3,5-Trimethylbenzene < 0.91 ug/I 5/23/2017 CJR I 1.56 4.95 1 8260B < 1.56 ug/l m&p-Xylene 5/23/2017 CJR 0.39 1.25 1 8260B < 0.39 ug/l o-Xylene 532925GG Lab Code G-5-W Sample ID Sample Matrix Water Sample Date 5/15/2017 Ext Date Run Date Analyst Code Unit LOD LOQ Dil Method Result Organic PVOC + Naphthalene 1 49 TCC 5/19/2017 ug/l 0.85 2.75 5 8260B < 0.85 Benzene 5/19/2017 TCC 1 49 8260B 3.15 5 < 1 ug/i 1 Ethylbenzene TCC 5/19/2017 149 5 8260B 4.1 13 < 4 ug/l Methyl tert-butyl ether (MTBE) 5 5/19/2017 TCC 149 8260B < 10.85 ug/l 10.85 34.5 Naphthalene 1 49 5/19/2017 TCC 10.65 5 8260B < 3.35 ug/l 3.35 Toluene 8260B 5 5/19/2017 TCC 1 49 1,2,4-Trimethylbenzene < 5.7 ug/l 5.7 18.15 TCC 149 5/19/2017 < 4.55 ug/l 4.55 14.5 5 8260B 1,3,5-Trimethylbenzene 5 5/19/2017 TCC 1 49 8260B 24.75 < 7.8 ug/l 7.8 m&p-Xylene 5/19/2017 TCC 1 49 1.95 6.25 5 8260B < 1.95 ug/l

AMBERG OIL

Project Name

o-Xylene

Lab Code Sample ID Sample Matrix Sample Date Organic PVOC + Naphr Benzene Ethylbenzene Methyl tert-butyl et Naphthalene Toluene 1,2,4-Trimethylben: 1,3,5-Trimethylben: m&p-Xylene o-Xylene	5/15/2017 thalene her (MTBE)	<pre>< 0.17 < 0.2 < 0.82 < 2.17 2.96 < 1.14 < 0.91 < 1.56 < 0.39</pre>	Unit ug/I ug/I ug/I ug/I ug/I ug/I ug/I	0.17 0.2 0.82 2.17 0.67 1.14 0.91 1.56 0.39	0.55 0.63 0.63 0.69 1 2.13 1 3.63 1 2.9 1 4.95 1 1.25 1	Method 8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B	Ext Date	5/23/2017 5/23/2017 5/23/2017 5/23/2017 5/23/2017 5/23/2017 5/23/2017 5/23/2017 5/23/2017	Analyst CJR CJR CJR CJR CJR CJR CJR CJ	Code
Lab Code Sample ID Sample Matrix Sample Date	532925II G-7-W Water 5/15/2017	Result	Unit	LOD LO	oo bil	Method	Ext Date	Run Date	Analyst	Code
Organic PVOC + Naph Benzene Ethylbenzene Methyl tert-butyl et Naphthalene Toluene 1,2,4-Trimethylben 1,3,5-Trimethylben m&p-Xylene o-Xylene	her (MTBE) zene	< 1.7 48	ດຣົໄ] ກຣົໄ] ກຣົໄ] ກຣົໄ] ກຣົໄ] ກຣົໄ]	1.7 2 8.2 21.7 6.7 11.4 9.1 15.6 3.9	5.5 10 6.3 10 26 10 69 10 21.3 10 36.3 10 29 10 49.5 10	8260B 8260B 8260B 8260B	* K	5/20/2017 5/20/2017 5/20/2017 5/20/2017 5/20/2017 5/20/2017 5/20/2017 5/20/2017 5/20/2017	TCC TCC TCC TCC TCC TCC TCC TCC TCC	! 1 1 1 1 1
Lab Code Sample ID Sample Matrix Sample Date	532925JJ G-8-W Water 5/15/2017	Result	Unit	LOD LO	OQ Dil	Method	Ext Date	Run Date	Analyst	Code
Organic PVOC + Naph Benzene Ethylbenzene Methyl tert-butyl et Naphthalene Toluene 1,2,4-Trimethylben 1,3,5-Trimethylben m&p-Xylene o-Xylene	her (MTBE) zene	<0.17 <0.2 <0.82 <2.17 <0.67 1.92 "J" <0.91 <1.56 <0.39	ug/l ug/l ug/l ug/l ug/l ug/l	0.17 0.2 0.82 2.17 0.67 1.14 0.91 1.56 0.39	0.55 1 0.63 1 2.6 1 6.9 1 2.13 1 3.63 1 2.9 1 4.95 1 1.25 1	8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B		5/19/2017 5/19/2017 5/19/2017 5/19/2017 5/19/2017 5/19/2017 5/19/2017 5/19/2017	TCC TCC TCC TCC TCC TCC TCC TCC	1 1 1 1 1 1 1

Project #

Project #	TMIDERG O	iL								
Lab Code Sample ID Sample Matrix Sample Date	532925KK G-9-W Water 5/15/2017	Result	Unit	LOD LO	OO Dil	Method	Ext Date	Run Date	Analyst	Code
Organic		Kesuit	Omi	EOD EO	· · · · · · · · · · · · · · · · · · ·	111001101			3 * *	
PVOC + Naph	thalene									
Benzene		< 0.17	ug/l	0.17 0.2	0.55 1 0.63 1	8260B 8260B		5/23/2017 5/23/2017	CJR CJR] }
Ethylbenzene Methyl tert-butyl et	her (MTRE)	21.6 < 0.82	ug/l ug/l	0.82	2.6	8260B		5/23/2017	CJR	i
Naphthalene	inci (mribu)	156	ug/l	2.17	6.9 I	8260B		5/23/2017	CJR	1
Toluene	2000	< 0.67	ug/l ug/l	0.67 1.14	2,13 1 3,63 1	8260B 8260B		5/23/2017 5/23/2017	CJR CJR	1
1,2,4-Trimethylben 1,3,5-Trimethylben		118 73	ug/l	0.91	2.9	8260B		5/23/2017	CJR	t
m&p-Xylene		17.4	ug/l	1.56	4.95 I	8260B		5/23/2017	CJR CJR	l 1
o-Xylene		1.17 "J"	ug/l	0.39	1.25 1	8260B		5/23/2017	CJK	,
Lab Code	532925LL									
Sample ID	G-10-W -									
Sample Matrix	Water									
Sample Date	5/15/2017	Result	Unit	LOD LO	o Dil	Method	Ext Date	Run Date	Analyst	Code
Organic		Result	Ont	202 20					3	
PVOC + Naph	thalene									
Benzene		< 0.17	ug/l	0.17	0.55 1	8260B		5/19/2017	TCC	1
Ethylbenzene Methyl tert-butyl et	hor (MTDE)	< 0.2 < 0.82	ug/l ug/l	0.2 0.82	0.63 l 2.6 l	8260B 8260B		5/19/2017 5/19/2017	TCC TCC	1
Naphthalene	ilei (MITBL)	< 2.17	ug/l	2.17	6.9 l	8260B		5/19/2017	TCC	1
Toluene		< 0.67	ug/l	0.67	2.13 I 3.63 I	8260B 8260B		5/19/2017 5/19/2017	TCC TCC	Į.
1,2,4-Trimethylben 1,3,5-Trimethylben		< 1.14 < 0.91	սց/ Լ ս ջ/ Լ	1.14 0.91	2.9	8260B		5/19/2017	TCC	i
m&p-Xylene		< 1.56	ug/l	1.56	4.95 l	8260B		5/19/2017	TCC	l 1
o-Xylene		< 0.39	ug/l	0.39	1.25 1	8260B		5/19/2017	TCC	Ī
Lab Code Sample ID	532925MM G-11-W	I								
Sample Matrix										
Sample Date	5/15/2017	Result	Unit	LOD LO	O Dil	Method	Ext Date	Run Date	Analyst	Code
Organic		1100411							_	
PVOC + Naph	thalene									
Benzene		< 0.17	ug/l	0.17	0.55 1	8260B		5/19/2017 5/19/2017	TCC TCC	i 1
Ethylbenzene Methyl tert-butyl et	her (MTRF)	< 0.2 < 0.82	ug/l ug/l	0.2 0.82	0.63 I 2.6 I	8260B 8260B		5/19/2017	TCC	i
Naphthalene	anor (IVII DE)	< 2.17	ug/l	2.17	6.9 l	8260B		5/19/2017	TCC	1
Toluene		< 0.67	ug/l	0.67	2.13 1	8260B 8260B		5/19/2017 5/19/2017	TCC TCC	1
1,2,4-Trimethylben 1,3,5-Trimethylben		< 1.14 < 0.91	ug/l ug/l	1.14 0.91	3.63 1 2.9 I	8260B 8260B		5/19/2017	TCC	1
m&p-Xylene	20110	< 1.56	ug/l	1.56	4.95 I	8260B		5/19/2017	TCC	1
o-Xylene		< 0.39	ug/l	0.39	1,25 1	8260B		5/19/2017	TCC	1

Project Name Project #	AMBERG O	IL				Invoice	# E329	25		
Lab Code Sample ID Sample Matrix Sample Date	532925NN G-12-W Water 5/15/2017	Result	Unit	LOD LO	OO Dil	Method	Ext Date	Run Date	Analyst	Code
Organic PVOC + Naph	thalene								J	
Benzene Ethylbenzene Ethylbenzene Methyl tert-butyl et Naphthalene Toluene 1,2,4-Trimethylben 1,3,5-Trimethylben m&p-Xylene o-Xylene	her (MTBE) zene	< 0.17 < 0.2 < 0.82 < 2.17 < 0.67 < 1.14 < 0.91 < 1.56 < 0.39	ගදි/] nදි/] nදි/] nදි/] nදි/] nදි/] nදි/]	0.17 0.2 0.82 2.17 0.67 1.14 0.91 1.56 0.39	0.55 1 0.63 1 2.6 1 6.9 1 2.13 1 3.63 1 2.9 1 4.95 1 1.25 1	8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B		5/19/2017 5/19/2017 5/19/2017 5/19/2017 5/19/2017 5/19/2017 5/19/2017 5/19/2017	TCC TCC TCC TCC TCC TCC TCC TCC	; ; ; ; ; ; ; ; ;
Lab Code Sample ID Sample Matrix Sample Date	53292500 G-13-W Water 5/15/2017							D D .		
Organic		Result	Unit	LOD LO	JQ Dil	Method	Ext Date	Run Date	Analyst	Code
PVOC + Naph Benzene Ethylbenzene Methyl tert-butyl et Naphthalene Toluene 1,2,4-Trimethylben 1,3,5-Trimethylben m&p-Xylene o-Xylene	her (MTBE) zene	< 0.17 < 0.2 < 0.82 < 2.17 < 0.67 < 1.14 < 0.91 < 1.56 < 0.39	ຕຣີ/ ຕຣີ/ ຕຣີ/ ຕຣີ/ ກຣີ/ ກຣີ/	0.17 0.2 0.82 2.17 0.67 1.14 0.91 1.56 0.39	0.55 1 0.63 1 2.6 1 6.9 1 2.13 1 3.63 1 2.9 1 4.95 1 1.25 1	8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B		5/19/2017 5/19/2017 5/19/2017 5/19/2017 5/19/2017 5/19/2017 5/19/2017 5/19/2017	TCC TCC TCC TCC TCC TCC TCC TCC TCC	1 1 1 1 1 1
Lab Code Sample ID Sample Matrix Sample Date	532925PP G-16-W Water 5/15/2017	Result	Unit	LOD LO	OO Dil	Method	Ext Date	Run Date	Analyst	Code
Organic PVOC + Naphi Benzene Ethylbenzene Methyl tert-butyl et Naphthalene Toluene 1,2,4-Trimethylben: 1,3,5-Trimethylben: m&p-Xylene o-Xylene	her (MTBE) zene	< 0.17 < 0.2 < 0.82 < 2.17 < 0.67 < 1.14 < 0.91 < 1.56 < 0.39	ug/i ug/i ug/i ug/i ug/i ug/i	0.17 0.2 0.82 2.17 0.67 1.14 0.91 1.56 0.39	0.55 1	8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B		5/23/2017 5/23/2017 5/23/2017 5/23/2017 5/23/2017 5/23/2017 5/23/2017 5/23/2017	CJR CJR CJR CJR CJR CJR CJR CJR CJR CJR	1 1 1 1 1 1 1 1 1

Invoice # E32925

Project Name AMBERG OIL
Project #

Lab Code 532925QQ
Sample ID G-18-W

Sample ID G-18-W Sample Matrix Water Sample Date 5/15/2017

F	Result	Unit	t LOD LOQ Dil M			Method	Ext Date	Run Date	Analyst	Code	
Organic				•					-		
PVOC + Naphthalene											
Benzene	< 0.17	ug/l	0.17	0.55	1	8260B		5/23/2017	CJR	1	
Ethylbenzene	< 0.2	ug/l	0.2	0.63	1	8260B		5/23/2017	CJR	1	
Methyl tert-butyl ether (MTBE)	< 0.82	ug/l	0.82	2.6	1	8260B		5/23/2017	CJR	1	
Naphthalene	< 2.17	ug/l	2,17	6.9	E	8260B		5/23/2017	CJR	1	
Toluene	< 0.67	ug/l	0,67	2.13	l	8260B		5/23/2017	CJR	Į	
1,2,4-Trimethylbenzene	< 1.14	ug/l	1.14	3.63	l	8260B		5/23/2017	CJR	l	
1,3,5-Trimethylbenzene	< 0.91	ug/l	0.91	2.9	1	8260B		5/23/2017	CJR	1	
m&p-Xylene	< 1.56	ug/l	1.56	4.95	1	8260B		5/23/2017	CJR	1 ·	
o-Xylene	< 0.39	ug/l	0.39	1.25	1	8260B		5/23/2017	CJR	1	

[&]quot;J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection LO

LOQ Limit of Quantitation

Code	Comment
1	Laboratory QC within limits.
49	Sample diluted to compensate for matrix interference.
	CWT denotes sub contract lab - Certification #445126660
	ESC denotes sub contract lab - Certification #998093910

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

Authorized Signature

Michael Ricker



Chain # Nº 290

Page	1	ωf	5
Londe		131	

Lab I D # Account No. : Quote No.: Project #:

Environmental Lab, Inc.

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

Sample	Han	dling	Request	
Rush Ana			Required	•

(Rushes accepted only with prior authorization) X Normal Turn Around

Sampler: (aignes/get)					,	,				Ĺ											
Project (Name / Location): Amban Oil								is R	eque	stec	1	Mary and and and	Other Analysis								
Reports To: Dessica Ambers	Invoice To: `	Jassica Amb	e19								The second second										
company Estate of Steven Amberg	Company	IN METICO						rangame amberials And &			and to desire a result	8	,								
Address 300 Ford Ad #7	Address 7	09611eHe	St Sta	3	6	92)		St. P.C. P.C. Spensor			삨	SOLIDS								-	
City State ZipSt Louis Park, MN 55426	City State Zip	La Crose 1	NI 54	603	Sep 95)	e de	103	Construction of the Constr			ALE)						7				
Phone (612) 306-0377	Phone				DHO S	(Mod GRO Sep	E	끯	2	3021)	E	PENF	A 54	(092	ALS	- Land	3				
FAX	FAX				(Mod D	S Pod		GREASE	¥.	PA	AP 1	ш <u>і</u> й) di	2A 8£	ME	20				1 1	PID/ FID
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5352923 P Meth Blank 5/15/17				MEOH		į					X										
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66-1-2 9:05		3		More	X.	XX	,		X	17				X		X)	۸			-	
9 6-2-1 9:25 9 6-2-3 9120				/ NOAL		X			^	X	X^{\dagger}						+				
F G-2-3 9120 F 150			+	/Nore		$ \downarrow$		***********	X	X	A.į		+		-			1-1		-	
6-3-2 955		1 2		7 // // // //		^	Ť	*******	^		\mathbf{x}^{\dagger}					\dashv		-	-	+	
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G-4-2 10:20	·····	2		1 /	04*11/242	***************************************				10-5	X		*****								
SG-5-1 V 10:30	\v	4		V/Nore		$\perp \mid_{X}$	′		X	X	**			Ì							
Comments/Special Instructions (*Specify groundy	vater "GW", C	nnking Water "DW",	Waste Water	"WW", Soil "S"	. Air	*Α*, Ι	Oil, S	Slud	ge et	0.)							~~~~				***************************************
Lab to send copy of rep	rest to	METCO																			
Ue C Rates		• •																			
Agent Status		:																			
Sample integrity - To be completed by receiving		nquished By (sign)	ine commencement and an angular scale and a second and a second and a second and a second and a second and a s	Time 1: 40 P.A		Date 7/12			lved E	By: (Si	gn)			****	**************************************		1	Time		Dat	9
Method of Shipment. <u>57/17/19</u> 3)	to at the second	<u> </u>				<u> </u>	≛./		***************************************			te table an excession	***************************************								
Temp, of Temp, Blank°C On to	e: 🚣																				
Cooler seal intact upon receipt. 🗹 Yes 📧		eived in Laboratory By:	1/1/	100.	***************************************	CA	•	-			Tir	me.	C	ـــر ک	_ A		r	\		16.	וו

CHAIN OF JSTODY RECORD

Quote No.:

Labil.D.#

Project #:

Account No. :



Environmental Lab, Inc.

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

Chain #	Νö	290	X.,
Page_Z	of	5	

Sample Handling Request

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

X Normal Turn Around

Sampler: (signature)			920	J-03U-Z400	* FAX 920-7	رين ' -دند	1000		/AV.::			(40)mai Tum Aloung					1Q1			
Project (Name / Location): Amberg Oil Reports To: See Page 1 —	Tank F	ain		1/1000 000 000	41.000		Ar	alys	sis R	eque	ste	ted Oth			her Aı	her Analysis				
Reports To: See Page 1 -	lovoi ae Te :	>																		T
Company	Company	.3000						NAME OF TAXABLE PARTY AND ADDRESS OF TAXABLE				100	v	}						
Address	Address				AND THE RESERVE OF THE PARTY OF		95)	100000000000000000000000000000000000000	Alikin oo ossana			щ	SOLIOS	}						
City State Zip	City State 2	lip .				Sep 95)	Sep 9		Philipped Comments			AI EN	0	223	3					
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FAX	FAX					(Mod D	9 Po	EN	PEA	χ. ₹	EPA	NAP	μ <u>α</u>	¥ (EF	PA 82	ME				PID/ FID
Lati: D. Sample I.D. Collection Date Time	Comp Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation		GRO (Mod	NITRATE/NITRITE	OIL & GREASE	PAH (EFA 8270)	PVOC (EPA 8021)	PVOC.	SULFATE	VOC DV	VOC (EPA 8260)	8-RORA METALS		West to the second	- Apple 1	
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Project #:

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CHAIN OF JSTODY RECORD

Quote No.:



Chain # Nº 290,

Page 3_ of 5

Environmental Lab, Inc.

Sample Handling Request

Rush Analysis Date Required

(Rushes accepted only with prior authorization)

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

X Normal Turn Around

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CHAIN OF JSTODY RECORD

Quote No.:

Lab I.D. #

Project #:

Account No. :



Chain # Nº2 312(

Page 4 of 5

Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914 020-920-2456 + EAV 020-722-0624

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

Normal Turn Around

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Environmental Lab, Inc.

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Site Investigation Report - METCO Amberg Oil Tank Farm

APPENDIX C/ WELL AND BOREHOLE DOCUMENTATION

Form 4400-122

Rev. 7-98

			Route To	: Watershed / Wastewate Remediation / Redevelopmen		Wast	e Mana	gement Other						
						<u> </u>					Page	1	of	
Facility /	-				Licens	e / Pern	nit / Mon	itoring	Number				Вс	oring Number
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WI Unique	Well No.	DNR V	Vell ID No.	. Well Name	Fina	al Static	Water L	.evel	5	Surface	Elevatio	n	E	Borehole Diameter
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		nple						Soil F	ropertie	s				I .
Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Welf Diagram	PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
G-1-1 (O-4 ft) G-1-2 (4-8 ft) G-1-3 (8-10 ft)	48 18 48 24 24 24		2	Concrete 0-4' Tan very fine to medium grained sand 4-8' Tan to gray very fine to medium grained sand 8-10' Gray fine to coarse grained sand with gravel Refusal @ 10' bgs. Groundwater sample G-1-W collected at 5-10 feet. Borehole abandoned.	SP SP			2.9 369 165		Dry M/W				Very slight petro odor Petro odor and staining From 7-8 feet Petro odor and staining
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SOIL BORING LOG INFORMATION

Form 4400-122 Rev

Rev. 7-98

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SOIL BORING LOG INFORMATION

Form 4400-122

Rev. 7-98

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Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	SOSA	Graphic Log	Well Diagram	PID / FID	Compressive Strength	Moisture Content	Líquid Limit	Plasticity Index	P 200	RQD / Comments
G-3-1 (O-4 ft) G-3-2 (4-8 ft) G-3-3 (8-9 ft)	48 30 48 30 12 12			0-7' Tan fine to coarse grained sand 7-9' Gray weathered sandstone Refusal @ 9' bgs. Groundwater sample G-3-W collected at 4-9 feet. Borehole abandoned.	SP	**************************************		5.6 8.2 10.4		M/W W				No petro odor No petro odor
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Form 4400-122

Rev. 7-98

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Number & Type	Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geotogic Origin For Each Major Unit	nscs	Graphic Log	Well Diagram	PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
G-4-2 (4-8 ft) 3 G-4-3 2	48 30 48 30		4 6 6	0-4' Tan fine to coarse grained sand 4-8' Tan fine to medium grained sand 8-10' Gray weathered sandstone Refusal @ 10' bgs. Groundwater sample G-4-W collected at 5-10' feet. Borehole abandoned.	SP SP			12.3 5.7 6.4		M/W				No petro odor No petro odor No petro odor
I hereby certif Signature:	fy tha	t the in	formation	on this form is true and correct to the be	st of my k	nowledg	ge		Firm:	ME	тсо			

Form 4400-122

Rev. 7-98

			Route To	o: Watershed / Wastev Remediation / Redevelops		Wast	te Mana	gement Other						
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Facility /	-				Licens	se / Pern	nit / Mor	nitoring	Number	•			В	oring Number
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Firm:	Geiss S		amples, LL	c		M/ DD/ Y				M /DD/ Y				Geoprobe
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	<u>. </u>					792.5	ft msl				ft msl			2"
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State Plane SE ¼ of N		N, lection 2	E 7 , T28N, R	13W		° 52′ 55 '91° 56′					N S Feet	E W		
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G-5-1 (0-4 ft) G-5-2 (4-8 ft) G-5-3 (8-10 ft)	48 30 48 24 24 24		10	0-4' Tan fine to coarse grained sand with gravel 4-9' Tan fine to coarse grained sand 9-10' Gray weathered sandstone Refusal @ 10' bgs. Groundwater sample G-5-W collected at 5-10 feet. Borehole abandoned.	SP	いいいいのでは、大きなななが		5.3 4.1 5.1		M				No petro odor No petro odor
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Form 4400-122

Rev. 7-98

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		oil and S	amples, LL			M/ DD/ Y				и/DD/ Y				Geoprobe
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Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	nscs	Graphic Log	Well Diagram	PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
G-6-1 (0-4 ft) G-6-2 (4-8 ft) G-6-3 (8-10 ft)	48 30 48 24 24 24		2	0-8' Tan fine to coarse grained sand 8-9.5' Tan coarse grained sand with gravel 9.5-10' Grav weathered sandstone Refusal @ 10' bgs. Groundwater sample G-6-W collected at 5-10 feet. Borehole abandoned.	SP	▼ · · · · · · · · · · · · · · · · · · ·		9.5 5.7. 21		M/W W				No petro odor No petro odor Petro odor
I hereby co	ertify tha	at the in	formation	on this form is true and correct to the best	of my k	nowledg	je				L		_	
Signature:		1		11-					Firm:	ME.	ГСО			

SOIL BORING LOG INFORMATION

Form 4400-122

Rev. 7-98

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Facility /			,		Licen	se / Per	mit / Moi	nitoring	Number	r			B	oring Number
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Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	nscs	Graphic Log	Well Diagram	PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
G-7-1 (0-4 ft) G-7-2 (4-8 ft) G-7-3 (8-10 ft)	48 30 48 6 24 24 24			0-8' Tan fine to coarse grained sand 8-8.5' Gray fine to coarse grained sand with gravel 8.5-10' Gray weathered sandstone Refusal @ 10' bgs. Groundwater sample G-7-W collected at 5-10 feet. Borehole abandoned.	SP			5.4 4.7 330		M W				No petro odor No petro odor Petro odor
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Form 4400-122

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Facility / Project Name Amberg Oil Tank Farm Boring Drilled By: Name of crew chief (first, last) and Firm Briss: Darrin Firm: Geiss Soil and Samples, LLC WI Unique Well No. DNR Well ID No. Well Name Borehole Diamete Total Static Water Level Total Static Water Level Total Grid Origin (estimated X) or Boring Location State Plane N, E SE ¼ of NE ¼ of Section 27 , T28N, R13W Facility ID County Coun				Route To	o: Watershed / Wast Remediation / Redevelo		Was	te Mana	gement Other						
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G-5-1 48 (0-4 ft) 30	Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	And Geologic Origin	ပ	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
	(0-4 ft) G-8-2 (4-8 ft) G-8-3	48 24 24 24			3.5-10' Gray to red weathered sandstone Refusal @ 10' bgs. Groundwater sample G-8-V		V .		3.6		M/W				No petro odor
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SOIL BORING LOG INFORMATION

Form 4400-122

Rev 7-98

				Remediation / Redevelopm	ent: X	J		Other	·		Page	<u> </u>	of	- 1
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			of crew c	hief (first, last) and Firm	Drilling	Date S	tarted		Drilling	Date C	omplet	ed	Dı	illing Method
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Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comment:
G-9-1 (0-4 ft)	48 30		4	0-8.5' Tan fine to medium grained sand	SP			5.9		М			The state of the s	No petro odor
G-9-2 (4-8 ft) G-9-3 (8-10 ft)	48 24 24 24 24		10	8.5-10' Gray weathered sandstone Refusal @ 10' bgs. Groundwater sample G-9-W collected at 5-10 feet. Borehole abandoned.		+ · · ·		5.3 129		M W				No petro odor Petro odor

This form is authorized by Chapters 281, 286, 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.

Firm:

METCO

SOIL BORING LOG INFORMATION

Form 4400-122

Rev. 7-98

			Route To	: Watershed / Waste Remediation / Redevelop		Wast	e Mana	gement Other						
				2							Page	1	of	
Facility / 1	Project I	Name			Licen	se / Pern	nit / Mon	itoring	Number				В	oring Number
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	-	•		Boring Location				-			Grid Loc			
State Plane SE ¼ of N		N,	E 7 T20N D	4 2 3 4 7		1°52'55 91°56'				Feet :		E W		
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Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID / FID	Compressive Strength	Moisture Content	Líquid Limit	Plasticity Index	P 200	RQD / Comments
G-10-1 (0-4 ft) G-10-2 (4-8 ft) G-10-3 (8-10 ft)	48 30 48 24 24 24	•		0-8.5' Tan fine to coarse grained sand with graves. 8.5-10' Gray weathered sandstone Refusal @ 10' bgs. Groundwater sample G-10-tollected at 5-10 feet. Borehole abandoned.		シャン・アン・アン・アン・アン・アン・アン・アン・アン・アン・アン・アン・アン・アン		3.3 6.2 5.0		M/VV VV				No petro odor Slight petro odor No petro odor
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Signature			9 2	01'					Firm:	ME	тсо		•	

SOIL BORING LOG INFORMATION

Form 4400-122

Rev. 7-98

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Facility /	Project I	Vame			Licens	e / Pern	nit / Mor	nitoring	Number				Вс	ring Number
Amberg (Oil Tank	Farm												G-11
Boring D	rilled By:	Name	of crew c	hief (first, last) and Firm		Date S			_		omplete	ed	Dr	illing Method
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Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
G-11-1 (0-4 ft) G-11-2 (4-8 ft) G-11-3 (8-10 ft)	0 0 0 24 24		<u></u> 10	0-4' No recovery 4-8' No recovery 8-8.5' Tan fine to coarse grained sand with gravel 8.5-10' Gray weathered sandstone Refusal @ 10' bgs. Groundwater sample G-11-W collected at 5-10 feet. Borehole abandoned.	SP	*	-	129		w				Petro odor
I hereby c Signature		at the in	2	on this form is true and correct to the be	st of my l	knowledę	ge		Firm:	ME	TCO			

SOIL BORING LOG INFORMATION

Form 4400-122

Rev. 7-98

Route To:

Watershed / Wastewater:

Waste Management:

Remediation / Redevelopment: Other: Page of 1 Facility / Project Name License / Permit / Monitoring Number Boring Number Amberg Oil Tank Farm G-12 Boring Drilled By: Name of crew chief (first, last) and Firm **Drilling Date Started Drilling Date Completed Drilling Method** First: Darrin Last: Prentice 05/15/2017 05/15/2017 Geoprobe Firm: Geiss Soil and Samples, LLC MM/ DD/ YYYY MM /DD/ YYYY WI Unique Well No. DNR Well ID No. Well Name Final Static Water Level Surface Elevation Borehole Diameter 792 ft msl 800 ft msl Local Grid Origin (estimated X) or Boring Location Local Grid Location N, Lat 44° 52' 55.12" Ε SE 1/4 of NE 1/4 of Section 27, T28N, R13W Long 91° 56' 6.03" Feet S Feet W Facility ID County Civil Town / City / Village County Code 617062490 Dunn 17 City of Menomonie Sample Soil Properties Number & Type Depth in Feet (below ground surface) ∞ E Diagram Compressive Strength Blow Counts Plasticity Index Graphic Log Length Att. Recovered (Liquid Limi Ø PID / FID Soil / Rock Description Moisture Content USCS 200 And Geologic Origin RQD / Comments For Each Major Unit Vel 0-4' Tan fine to coarse grained sand with gravel SP G-12-1 (0-4 ft) 48 2.0 М No petro odor SP 4-9.5' Tan fine to coarse grained sand 5.0 М No petro odor (4-8 ft) G-12-3 24 24 19 W Slight petro odor (8-10 ft) 9.5-10' Gray weathered sandstone Refusal @ 10' bgs. Groundwater sample G-12-W collected at 5-10 feet. Borehole abandoned. _12 16 I hereby certify that the information on this form is true and correct to the best of my knowledge Signature:

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.

Firm:

METCO

Form 4400-122

Other:

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Route To:

Watershed / Wastewater: Remediation / Redevelopment: Waste Management:

Page Facility / Project Name License / Permit / Monitoring Number **Boring Number** Amberg Oil Tank Farm G-13 Boring Drilled By: Name of crew chief (first, last) and Firm **Drilling Date Started Drilling Date Completed Drilling Method** Last: Prentice 05/15/2017 05/15/2017 Geoprobe Firm: Geiss Soil and Samples, LLC MM/ DD/ YYYY MM /DD/ YYYY WI Unique Well No. DNR Well ID No. Well Name Final Static Water Level Surface Elevation Borehole Diameter 792 ft msl 800 ft msl Local Grid Origin (estimated X) or Boring Location Local Grid Location Lat 44° 52' 55.12" Ν SE 1/4 of NE 1/4 of Section 27, T28N, R13W Long 91° 56' 6.03" Feet S Feet W Facility ID County County Code Civil Town / City / Village 617062490 Dunn City of Menomonie 17 Sample Soil Properties Depth in Feet (below ground surface) Length Att. & Recovered (in) Number & Type Plasticity Index Compressive Strength Blow Counts Well Diagram Graphic Log Liquid Limit 8 0 8 PID / FID Moisture Content Soil / Rock Description 200 And Geologic Origin RQD / Comments For Each Major Unit G-13-1 1.4 М No petro odor SP 0-8' Tan fine to coarse grained sand G-13-2 48 30 8 1.8 M No petro odor (4-8 ft)G-13-3 (8-10 ft) SP 24 8-9.5' Tan fine to coarse grained sand with gravel 1.3 W No petro odor 8,5-10' Gray weathered sandstone Refusal @ 10' bgs. Groundwater sample G-13-W 10 collected at 5-10 feet. Borehole abandoned 12 _ 16 I hereby certify that the information on this form is true and correct to the best of my knowledge Signature: Firm: **METCO**

Form 4400-122

Rev. 7-98

Route To: Watershed / Wastewater: Waste Management:

Remediation / Redevelopment: Other: Page Boring Number License / Permit / Monitoring Number Facility / Project Name Amberg Oil Tank Farm G-14 Boring Drilled By: Name of crew chief (first, last) and Firm Drilling Date Started **Drilling Date Completed Drilling Method** 05/15/2017 05/15/2017 First: Darrin Last: Prentice Geoprobe MM/ DD/ YYYY MM /DD/ YYYY Firm: Geiss Soil and Samples, LLC Surface Elevation Borehole Diameter WI Unique Well No. DNR Well ID No. Well Name Final Static Water Level 800 ft msl Local Grid Origin (estimated X) or Boring Location Local Grid Location Lat 44° 52' 55.12" State Plane Long 91° 56′ 6.03" Feet S Feet W SE 1/2 of NE 1/2 of Section 27, T28N, R13W County Code County Civil Town / City / Village Facility ID City of Menomonie 17 617062490 Dunn Soil Properties Sample Depth in Feet (below ground surface) Diagram Compressive Strength Number & Type Plasticity Index & <u>E</u> Blow Counts Graphic Log Liquid Limit Length Att. Recovered (i Moisture Content PID / FID Soit / Rock Description ၁ And Geologic Origin RQD / Comments For Each Major Unit Nell No petro odor G-14-1 2.1 M (0-4 ft)30 0-8.5' Tan fine to medium grained sand 1.6 М No petro odor G-14-2 48 (4-8 ft) 8.5-10' Grav weathered sandstone No petro odor 1.1 w G-14-3 10 Refusal @ 10' bgs. No groundwater recovery for sample. Borehole abandoned. (8-10 ft) _12 _16

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

Signature:

Firm: METCO

Signature:

SOIL BORING LOG INFORMATION

Form 4400-122

Rev. 7-98

Route To: Watershed / Wastewater: Waste Management: Remediation / Redevelopment: Other: Page Facility / Project Name License / Permit / Monitoring Number Boring Number Amberg Oil Tank Farm G-15 Boring Drilled By: Name of crew chief (first, last) and Firm Drilling Date Completed Drilling Date Started Drilling Method First: Darrin 05/15/2017 05/15/2017 Last: Prentice Geoprobe Firm: Geiss Soil and Samples, LLC MM /DD/ YYYY MM/ DD/ YYYY Wi Unique Well No. DNR Well ID No. Well Name Borehole Diameter Final Static Water Level Surface Elevation 800 ft msl Local Grid Origin (estimated X) or Boring Location Local Grid Location State Plane Lat 44° 52' 55.12" N, Ν Ē SE 1/4 of NE 1/4 of Section 27 , T28N, R13W Long 91° 56' 6.03" Feet S Feet W Facility ID County County Code Civil Town / City / Village 617062490 City of Menomonie Dunn Sample Soil Properties Number & Type Length Att. & Recovered (in) Depth in Feet (below ground surface) Diagram Compressive Strength Counts Plasticity Index Liquid Limil 잂 Moisture Content Soil / Rock Description USCS RQD / Comments And Geologic Origin PID / For Each Major Unit Blow Well G-15-1 (0-4 ft) 3.0 М No petro odor 0-8' Tan fine to coarse grained sand SP G-15-2 3.6 М No petro odor (4-8 ft) 24 8-9' Gray weathered sandstone +: G-15-3 2.3 W No petro odor (8-9 ft) Refusal @ 9' bgs. No groundwater recovery for sample. Borehole abandoned. 10 12 _16 I hereby certify that the information on this form is true and correct to the best of my knowledge

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.

Firm:

METCO

Form 4400-122

Rev. 7-98

			Route To		Vatershed / Wastewa diation / Redevelopme	_	→ Was	te Mana	gemen Othe						
	<u></u>			reme	nation / redevelopme		-					Page	e 1	of	
Facility /	_					Licens	se / Perr	nit / Mor	nitoring	Number	-			Во	oring Number
Amberg				to the term of term of the term of the term of the term of the term of the term of the term of the ter											G-16
	rilled By t: Darrin	: Nam		chief (first, last) and t: Prentice	Firm		g Date S 05/15/20					complete	ed	Dτ	illing Method
		oil and	Samples, LL				IM/ DD/ Y				05/15/20 [.] M /DD/ Y				Geoprobe
W! Unique	Well No.	DNR	Well ID No	. W	ell Name		al Static		Level			Elevation	on	3	Borehole Diamete
							792	ft msl			800	ft msl			2"
Local Gri	d Origin	(estin	nated X) or	Boring Location								Grid Loc	ation		- , , ,
State Plan		N,	E				l° 52' 55				4		E		
	acility ID		27 , T28N, R	13W	County	Long	91° 56′		y Code		Feet :	S Feet Civil Tov		. / \ /	8110
	706249								-		,		-		-
- 01		nple			Dunn			1	7 Soil F	Propertie	,c	City o	f Meno	mor	ne
ed.		1	# 5		· · · · · · · · · · · · · · · · · · ·		Τ_	c	0011	T	<u> </u>	T	×]	
Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	And G	ock Description eologic Origin ch Major Unit	USCS	Graphic Log	Well Diagram	PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
G-16-1 (0-4 ft) G-16-2 (4-8 ft) G-16-3 (8-10 ft)	48 30 48 36 24 12		2 4 4 6 16 10 12 14 12 14	0-8' Tan fine to coarse g 8-10' Tan weathered sar Refusal @ 10' bgs. Grot collected at 5-10 feet. E	dstone undwater sample G-16-W	SP	() () () () () () () () () ()		1.6		M W				No petro odor
hereby ce	ertify tha	it the in	formation	on this form is true	and correct to the be	st of my k	nowleda	le		. 1					
Signature:							3			Firm:	ME	ГСО			-
_			Zrun	house											

SOIL BORING LOG INFORMATION

Form 4400-122

Rev. 7-98

			Route To:	: Watershed / Wastewa Remediation / Redevelopme		Wast	e Mana	gement Other						
				Remediation / Redevelopine	3180.			Other			Page) 1	of	1
Facility / I	Project i	Vame			Licens	e / Perm	iit / Mor	nitoring	Number				Во	oring Number
Amberg (Dil Tank	Farm											_	G-17
		Name		chief (first, last) and Firm		Date S 05/15/201				Date C 05/15/201		ed	Dr	illing Method
	: Darrin : Geiss Sc	oil and S.	Last amples, LL(t: Prentice C		03/13/20 M/ DD/ Y`				// /DD/ Y				Geoprobe
			Vell ID No.			al Static		Level		Surface		on	Е	Borehole Diameter
						792	ft msl				ft msl			2"
		•		Boring Location							Grid Loc			
State Plane		N,	E TOOM D	1216/		° 52' 55 91° 56'				N Feet 3	l S Feet	E W		
SE ¼ of N	acility ID		7 , 120N, IX	County	Long	31 00		y Code			Civil Tov		//V	ʻillage
	7062490			Dunn				- 17			City o	f Meno	mor	nie
	San								ropertie	s			_	
Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	n s c s	Graphic Log	Well Diagram	PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
G-17-1 (0-4 ft) G-17-2 (4-8 ft) G-17-3 (8-9 ft)	48 30 48 24 12 12		2 4 6 6 10 12	0-8' Tan fine to coarse grained sand 8-9' Gray weathered sandstone Refusal @ 9' bgs. No groundwater recovery for sample. Borehole abandoned.	SP	いただけの一種が		1.5 1.8 495		M W				No petro odor No petro odor Petro odor and staining
I hereby o	ertify th	at the ir	formation	on this form is true and correct to the be	est of my l	t knowled	ge	L				L	<u></u>	
Signature			_	····					Firm:	ME	TCO			
•		2	3-1-1	To reace										

SOIL BORING LOG INFORMATION

Form 4400-122

Rev. 7-98

			Route To	: Watershed / Wastewate Remediation / Redevelopmen		Wasi	te Mana	gement Other						
				·						,	Page	1	of	
Facility / I	•				Licens	se / Pern	nit / Mor	nitoring	Number				В	oring Number
Amberg C	Dil Tank	Farm	of oroug	hief (first, last) and Firm	Deilling	g Date S	tortod		Drilling	Data C	omplete		Ω.	G-18 rilling Method
	: Darrin	. INAIIIE		: Prentice		95/15/20)5/15/20		au a	וט	-
Firm:	Geiss S	oil and S	amples, LL0	c		M/ DD/ Y				// /DD/ Y				Geoprobe
WI Unique	Well No.	DNR V	Vell ID No.	. Well Name	Fin	al Static	:Water I	Level	5	Surface	Elevation	on	E	Borehole Diameter
						792	ft ms!	-			ft msl			2"
				Boring Location							Grid Loc			
State Plane		N, Section 2	E 7 , T28N, R [.]	13\M		° 52' 55 '91° 56'				Feet		E W		
	cility ID		, 12014, 11	County	cong	31 30		y Code			Civil Tov		/ V	/illage
	7062490			Dunn				- 17				f Meno		-
		nple							Propertie	es	+,			
Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
G-18-1 (0-4 ft) G-18-2 (4-8 ft) G-18-3 (8-9 ft)	48 36 48 30 12 24			0-4' Tan fine to medium grained sand 4-8' Tan fine to coarse grained sand 8-9' Gray weathered sandstone Refusal @ 9' bgs. Groundwater sample G-18-W collected at 4-9 feet. Borehole abandoned.	SP			3.0		M W				No petro odor No petro odor No petro odor
		at the in	formation	on this form is true and correct to the bes	t of my k	nowledg	ge							
Signature:		1	3	traina					Firm:	ME	тсо			
		10	W.	provide -										

Well / Drillhole / Borehole Filling & Sealing Form 3300-005 (R 4/08) Page 1 o

Page 1 of 2

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

Route to:

☐ Verification Only o	of Fill an	d Seal		Drinking Waste N	Water Managemen	=	Watershed/Wa Other:	estewater	X Remedi	ation/Redeve	opment
1. Well Location Inform	nation	nginer er	antia:	in a second	(electrization)	2. Facility	/ Owner Inf	omation		非 基制设备	
Control of the Contro	WI Unique	Well # of	Hic	ap#		Facility Nam	THE RESERVE AND A COURSE OF STREET		manage of succession	to Antondary and the	
-	Removed	Well				, , ,		Oil Tank Farm			
DUNN						Facility ID (F	ID or PWS)				
Lattitude / Longitude (Degr	ees and M	linutes) M	ethod Co	ode (see in	structions)			617062490			
<u>44</u> • <u>52.92</u>		'N	Paper 17			License/Perr	nit/Monitoring	#			
91 • 56.1		w									
%1% SE % NE		ection	Towns	nip Rang	<u></u>	Original Wel	Owner				
or Gov't Lot#	-	27	28	10	. []_			sica Amberg			
		41	20	N 13	X W	Present Wel	Owner				
Well Street Address								ssica Ambeg			
511 1st Ave W Well City, Village or Town	(*)	addina wallanga waran		Well ZIP C	nde	Mailing Addr	ess of Preser				
Menomonie				54751-	000			300 Ford R			<u>.</u>
Subdivision Name				54731* Lot#		City of Prese			State	ZIP Code	
OUDUIVISIUM NAME				COL II		7 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -		is Park	MN	55426-	Okt turk.
Reason For Removal From	Service	Wi Uniou	e Well#	of Replacer	ment Well	4. Pump, I	iner, Scree	n, Casing & Sea	ling Mate		
				-		Pump and	d piping remov	ved?			$[X]_{N/A}$
Sampling Complete 3. Well / Drillhole / Bor	chale inf	amatlar				Liner(s) re				Yes \square_{No}	$[x]_{N/A}$
3. Mail 1 Districte 1 DOI	3.4 Marie and Chicago	Carrent P. Control		Date (mm/	/dd/www\	Screen re				Yes No	$[x]_{N/A}$
Monitoring Well	[0"	ginai ouin	5/15/2		,),),),	I.	ft in place?			Yes No	$[X]_{N/A}$
Water Well	14	a labil Car		Report is a	aldelieu	1	ng cut off belo	uu eurfaca?		Yes DNo	$[x]_{N/A}$
X Borehole / Drillhole		ease attac		report is t	BYERGUIC ₁		ng cat on belo ng material ris			Yes \square_{No}	□ _{N/A}
Construction Type:	<u></u>					Ł	•		Ì	Yes [X]No	TI _{N/A}
	Oriven (Sar	ndpoint)	F	Dug			rial settle after , was hole ret				X N/A
- :	=	idpoints	<u> </u>	T tooa				used, were they hy n safe source?	drated _F :		
X Other (specify): _Ge	oprobe								Į,X,	Yes UNO	LJN/A
Formation Type:						P combine		g Sealing Material	- 61 C		
[X] Unconsolidated Form	nation		Bedrock				ctor Pipe-Grav led & Poured	rity Conducto			
Total Well Depth From Gro	ound Surfa	ice (fl.) Ci	sing Dia	meter (in.)			nite Chips)	X Other (Ex	olain): <u>Gra</u>	wity	
	10			VIO		Sealing Mate		F	 1		
Lower Drillhole Diameter (in.) 2	C	asing De	pth (ft.)			ement Grout	Ļ		d Slumy (11 lt	
	<i>L</i>			***************************************		PARATE	Cement (Conc	rete) Grout		-Sand Slurry	× 11
Was well annular space gr	routed?	Пν	es E		Unknown	Concre		. L	Bentonite		
			o Water					Monitoring Well Bo			
If yes, to what depth (feet)	ıf	Debruit	O AASIEL	•		X Bentor		-	onite - Cem		
			- Visit 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	7.5		Granul	ar Bentonite	L Bent	onite - San	Slurry	
5. Material Used To Fill	Well / Dril	lhole	15 18 18 2 18 18 18 18 18 18 18 18 18 18 18 18 18 1			From (ft.)	To (ft.)	pounds			
Medium Bentonite Chip)S	and the second second second				Surface	10	15			.,
							1				
6. Comments			gagata				5 3 3 3 3 3 4		4] 2(5) ye] , 1 334		General Services
Geoprobe Boring G-I Abandoned by Geiss Se	oil & Samı	oles, LLC	under M	ETCO sup	pervision	, eg . p g Synd - Igalit included y d	- X - 1 - 1 - 200 X - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	67-5, 11-5			
7. Supervision of Wor			istoria Silabas			ari de la companya de la companya de la companya de la companya de la companya de la companya de la companya d		ga (U estantista francia)	DNR Use	Only	
Name of Person or Firm D	A THE PARTY OF THE PARTY OF	ı & Sealin	g Licen	se #	Dale of F	ling & Sealin	a (mm/dd/vvv	y) Date Received	A STATE OF THE PARTY OF THE PAR	ted By	
Eric Dahl	and mad		•	, 	[5/15/2017					
Street or Route			1		Tre	lephone Nur		Comments	ra eta nung	M MULLING	
• • •	lette Street	, Suite 3				608) 781-					
City			State	ZIP Code			Person Dojn	g Work	Da	te Signed	
La Crosse			WI	54603-		15	_//~		ļ	6/1/17	

Well / Drillhole / Borehole Filling & Sealing Form 3300-005 (R 4/08) Page 1 of

Page 1 of 2

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

Route to:

Verification Only of Fill	and Seal		Drinking W Waste Man		=	Watershed/Was	slewater	[X]Remedi	ation/Redevelo	opment
1. Well Location Information	t izgen och ge	41, 34		1023843	2. Facility	/ Owner Info	mation -		1,722	
County Wi Un Remo	ique Well # of ved Well	Hica	ι ρ#	nisteri (A	Facility Nam	e	Oil Tank Farm	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)		
DUNN			عاميدا معما عام	المحدث فعد	Facility ID (F	ID or PWS)				
Lattitude / Longitude (Degrees ar 44 • 52.92	1	mou co	ue (see maii	uceuns)			61706249)		
- 32.92	'N				License/Perr	nit/Monitoring	#	•		
<u>91</u> • <u>56.1</u> . <u> </u>	·wl _									
14114 SE 14 NE	Section	Townsh	ip Range	ΠE	Original Well		: A b			
or Gov't Lot #	- 27	28	N 13	x w	Present Well		ica Amberg			
Well Street Address					Present vvei	• •	sica Ambeg			
511 1st Ave W					Mailing Adds	ess of Present				
Well City, Village or Town	William Control	į.	Vell ZIP Code	è	Mankig Addi	655 Oi 1 (656)	300 Ford	Road #7		
Menomonie			54751-		City of Prese	ent Owner	000101	State	ZIP Code	
Subdivision Name		L	ot#				is Park	MN	55426-	
					4 Pirms I		r, Casing & S		1	
Reason For Removal From Serv	ice Wl Unique	Well # c	f Replaceme	nt Well		24-11 CONTRACTOR - 201-2	3,5			[x] _{N/A}
Sampling Complete					4 "	d piping remov	ed?	<u> </u>	l	$[x]_{N/A}$
3. Well / Drillhole / Borehole					Liner(s) re			<u> </u>	lYes ∐No	[X] _{N/A}
handing to let	Original Const			(уууу)	Screen re				lYes L∐No L. ∏	[X] _{N/A}
Monitoring Well		5/15/2	017		<u>Casing le</u>	ft in place?			Yes L No	
Water Well	If a Well Cons		Report is ava	ilable,	1	ng cut off belo			Yes LINO	XINA
X Borehole / Drillhole	please attach				Did sealir	ng material rise	to surface?	[A.	Yes DNo	HN/A
Construction Type:		_	1			rial settle after		<u> </u>	Yes [X]No	L JN/A
	(Sandpoint)	<u> </u>	Dug		if yes	, was hole reto	opped?	L hydrated s	Yes ∐No	N/A
X Other (specify): Geoprob	e				with water	r from a known	sed, were they safe source?	X	Yes No	<u>UN/A</u>
Formation Type:					1 -		g Sealing Mater			
X Unconsolidated Formation		3edrock				ctor Pipe-Gravi		tor Pipe-Pum		
Total Well Depth From Ground S	Surface (ft.) Cas	sing Dia	meter (in.)		Screen (Bento	ned & Poured nite Chips)	[X] Other (E	xptain): Gra	avity	
9					Sealing Mate	the second secon				
Lower Drillhole Diameter (in.)	Ca	sing Dep	oth (ft.)		Neat C	Cement Grout			nd Slumy (11 lb	-
	2				Sand-(Cement (Concr	ete) Grout		e-Sand Slurry '	• 4
Was well annular space grouted	? □Ye	·Г	lNo □u	nknown	Concre			Bentonit	•	
	Depth to						tonitoring Well l			
If yes, to what depth (feet)?	Debu 10	* + 61C1 {	•		X Bentor	nite Chips Iar Bentonite		intonite - Cem intonite - San		
	ANGRES CONTRACTOR OF SUCCESSION	0000 t 1300 W	8	rreseren G	WWELLERANG-	11年長四月後開東大学等		munite - San	d Sidily	
5. Material Used To Fill Well /	Drillhole				From (fL)	To (ft)	pounds			<u> </u>
Medium Bentonite Chips					Surface	9	13.	5		
		· · · · · · · · · · · · · · · · · · ·								
								4. 199		
6. Comments		1,34,11					a i i i i i i i i i i i i i i i i i i i			
Geoprobe Boring G-2 Abandoned by Geiss Soil & S	Samples, LLC u	nder M	ETCO super	vision						
7. Supervision of Work				al verrous age	i diadro I fe			DNR Use	e Only	otas Netu.
Name of Person or Firm Doing I	illing & Sealing	Licens	e# C	ate of Fi	lling & Sealin	ig (mm/dd/yyy	/) Date Receiv	ed No	oted By	
Eric Dahl	_				5/15/201		EHALLIC SE	in iu con B		Hana
Street or Route				To	elephone Nur	nber	Comments			
709 Gillette S	treet, Suite 3			(608) 781-					
City	ļ.	tate	ZIP Code		Signature of	Person Doing	Work	D	ate Signed	
La Crosse		WI	54603-			1/2-		6	71/(/	

Well / Drillhole / Borehole Filling & Sealing Form 3300-005 (R 4/08) Page 1 of

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☐ Verification Only o	of Fill and Sea		=	o: nking Water ste Manageme	nt 🔲	Watershed/W	astewater	[X]Remed	iation/Redevelopment
1. Well Location inform	nation	W.E.	energies.	STATEMENT STATE	2 Facility	// Owner In	formation	analik iyo	nasto propinsi
	WI Unique Well #	of H	icap#	o coming considerable	Facility Nam			things to be a second or	A CONTRACTOR OF THE PROPERTY O
•	Removed Well	l					Oil Tank Farm		
DUNN				· · · · · · · · · · · · · · · · · · ·	Facility ID (I	ID or PWS)		· · ·	
Lattitude / Longitude (Degr	rees and Minutes)	Method	Code (s	ee instructions)		617062490)	
<u>44</u> <u> </u>	N				License/Per	mit/Monitoring	#		
91 • 56.1	·w	,							
1/1/4 SE 1/4 NI	7 Section	Town	shin	Range E	Original We	ll Owner		*********	
or Gov't Lot #	27	28	·	10		Jes	sica Amberg		
Well Street Address		20	N	13 X W	Present We	ll Owner			
						Je	essica Ambeg		
511 1st Ave W Well City, Village or Town	art distribution of the state o		Mail 7	IP Code	Mailing Add	ress of Preser			
Menomonie			547				300 Ford		
Subdivision Name			Lot#	31-	City of Pres	ent Owner		State	ZIP Code
Opportision Hame	•					(1)	ois Park	MN	55426-
Reason For Removal From	n Sendre - WI Uni	que Well	of Rep	lacement Well	4. Pump,	Liner, Scree	n, Casing & Se	aling Mate	rial
Sampling Complete					Pump an	d piping remo	ved?		l _{Yes} □ _{No} [x] _{N/A}
3. Well / Drillhole / Bo	ahala Informati	A	(a.v. 1657) T		Liner(s) r				$ _{Yes} \square_{No} [x]_{N/A}$
J. Hall / Dillinote / Du	2017 2 11 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2		n Date (mm/dd/yyyy)	Screen re				Yes No [X]N/A
Monitoring Well	Original Ci		/2017	(11111111111111111111111111111111111111		ft in place?			Yes No X N/A
Water Well	if a Micali C			rt is available,		ng cut off belo	w autaas?		Yes No X N/A
X Borehole / Drillhole	please att		in excho	it is evendenc.	1	•			Yes ONO ON/A
Construction Type:						ng material ris		F	Yes XNo NA
	Orlven (Sandpoint)	ſ	Dug			rial settle after , was hole ret		I	
		L	- DOA						
X Other (specify): Ge	oprobe						used, were they h n safe source?		Yes Ono On/A
Formation Type:	_				<u> </u>		g Sealing Materia		
[x] Unconsolidated Form	nation [Bedroo	*			ctor Pipe-Grav ned & Poured			
Total Well Depth From Gr	ound Surface (ft.)	Casing D	iameter	(in.)	(Bento	nite Chips)	LAJ Other (E	xplain): <u>Gra</u>	evity
	9				Sealing Mat	erials	A CONTRACTOR OF THE PARTY OF TH		
Lower Drillhole Diameter (in.) 2	Casing D	epth (ft.)	☐ Neat C	Cement Grout			d Slurry (11 lb./gal. wt.)
	<u> </u>				L Sand-l	Cement (Conc	rete) Grout	Bentonite	-Sand Slumy " "
Was well annular space gr	muted?] _{Yes} [No	Unknown	Concr	ete		Bentonite	Chips
-				Company of the second	For Monitori		Monitoring Well B	oreholes Onl	y:
If yes, to what depth (feet)	7 Дерц	h to Water	r (reet)	_	X Benton			ntonite - Cem	
				7	Granu	lar Bentonite	L_] Ber	ntonite - Sand	l Slurry
5. Material Used To Fill	Well / Drillhole			70 TV 200 P 100	From (ft.)	To (ft.)	pounds		
Medium Bentonite Chip	Debug of a responsibility to the property of t				Surface	9	13.5		
,	•						2010		
6. Comments		M							AND AND AND AND AND AND AND AND AND AND
Geoprobe Boring G-3	udiel de la la de la 1887		<u> </u>	3 1 10 10 7 20 14 20 KM	actions and a VIII	<u>. e </u>	alecta is delix l'incosso disser	SALE OCC. (\$21) SUID.	34 M59830 27 R50 323 22 - 34 526 5 5 11. (8)
Abandoned by Geiss S	Carrent Control of the Community	C under l	METCO) supervision	en angeligenski i rigider			and the second of the second	NA SANTANA NA MANAGAMBANA NA SANTANA SANTANA SANTANA SANTANA SANTANA SANTANA SANTANA SANTANA SANTANA SANTANA S
7. Supervision of Wor								ONR Use	2 K-15-5 K-15-6
Name of Person or Firm D	oing Filling & Sea	ling Lice	nse#	Date of F	illing & Sealin		y) Date Receive	dje ine No	ted By
Eric Dahl					5/15/2017		2018/08/02/50	RUGES ALA	
Street or Route					elephone Nur		Comments		
	ette Street, Suite 3				(608) 781-				Tiperragaasiin elisteise (1997)
City La Crosse		State	ZIP C	:0de :03_	Orgnature of	Person Doing	y vvork	Da /	te Signed

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

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Route to:

☐ Verification Only of F	ill and Seal	rinking V		Watershed/Wastewater [X] Remediation/Redevelopment							
		<u> </u>	Vaste Ma	nagemen							
1. Well Location Informati	on 💯 🚟		er ufleks		And the state of t		ormation	der Ereibe			
	Unique Well # o	f Hicap i	ŧ		Facility Name		OUT LE				
DUNN	novea wes				er - oto des es		Oil Tank Farm	··//			
Lattitude / Longitude (Degrees	and Minutes)	vlethod Code	(see inst	ructions)	Facility ID (F	D OF PWS)	617062490				
44 • 52.92	'N				icense/Perr	nit/Monitoring					
91 • 56.1	·w				Elocatoric Co.	MUMORATORING	"				
7/1/4 SE 1/4 NE	Section	Township	Range	ПΕ	Original Well						
or Gov't Lot #	27	28	1 13	x w			sica Amberg				
Well Street Address				12 11	Present Well	•	raina Ambag				
511 1st Ave W					Jessica Ambeg Mailing Address of Present Owner						
Well City, Village or Town		Wel	I ZIP Cod	le	Anaming voor	C02 () 1620()	300 Ford R	oad #7			
Menomonie		5	4751-		City of Prese	nt Owner	2001014	State	ZIP Code		
Subdivision Name		Lot	#		0, 0 1000		is Park	MN	55426-		
					4 Pump L		n, Casing & Sea	· · · · · · · · · · · · · · · · · · ·	ial		
Reason For Removal From Se	ervice WI Uniq	ue Well # of R	eplaceme	ent Well	7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				[v]		
Sampling Complete				_		l piping remov	ved?		Yes I No [^]N/ Yes I No [X]N/		
3. Well / Drillhole / Boreh	ole informatic	n - Figure			Liner(s) re						
Monitoring Well	Original Co	struction Dat		У уууу)	Screen re			1			
		5/15/201			1	t in place?			[-,-]		
Water Well	If a Well Co	enstruction Re	port is av	ailable,	1	ng cut off belo					
X Borehole / Drillhole	picase atta	αι.			1		e to surface?				
Construction Type:	. 10				1	ial settle after		3	[[w]		
£	en (Sandpoint)	L	ug		If bentonit	, was hole ret e chips were t	oppeur used, were they hy	تـــا اــا drated			
X Other (specify): Geopt	obe				with water	from a known	used, were they hyd n safe source?	x	Yes LINO LIN/		
Formation Type:					1 —		g Sealing Material	a Mina Dumir	المرس		
[x] Unconsolidated Formation	on [Bedrock				ctor Pipe-Grav ed & Poured		- ,			
Total Well Depth From Groun	d Surface (ft.) 10	Casing Diame	ter (in.)		Screened & Poured (Bentonite Chips) Sealing Materials [X] Other (Exptain): Gravity						
Lower Drillhole Diameter (in.)		Casing Depth	(ft.)			ement Grout	<u> </u>	Clay-San	d Slurry (11 lb./gal. w		
Editor Diamoid Element (my	2		• •		☐ Sand-0	Cement (Conc	rete) Grout	Bentonite	-Sand Slurry " "		
	- 42	Yes 🔲 N	" Пі	Jnknown	Concre		C.	Bentonite	' -		
Was well annular space groul				OHIO POPPI	1		Monitoring Well Bo				
If yes, to what depth (feet)?	Depth	to Water (fee	•			ite Chips		onite - Cem			
		. w	7.5	La avie it se	o la popular notice a SVSQui	ar Bentonite	Bent	onite - Sand	Slury		
5. Material Used To Fill We	li / Drillhola				From (ft.)	To (ft)	pounds				
Medium Bentonite Chips					Surface	10	15				
	·										
6. Comments											
Geoprobe Boring G-4 Abandoned by Geiss Soil	& Samples III	under MET	CO sune	rvision		· · · · · · · · · · · · · · · · · · ·					
	or Samples, EL		79% P.W.				e jugaran	DNR Use	Only		
7. Supervision of Work Name of Person or Firm Doin	a Filling & Seal	ng License	<u> </u>	Dale of F	lling & Sealin	a (mm/dd/vvv	v) Date Received		led By		
Eric Dahl						of Filling & Sealing (mm/dd/yyyy) Date Received Noted By 5/15/2017					
Street or Route						Telephone Number Commerits					
***************************************						(608) 781-8879					
City	Signature of Person Doing Work Date Signed				te Signed						
La Crosse		WI	54603-		G/2 10/1/17						

Well / Drillhole / Borehole Filling & Sealing Form 3300-005 (R 4/08) Page 1 o

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☐ Verification Only o	f Fill and Seal	[Drinking	Water	Watershed/Wastewater X Remediation/Redevelopmen							
rommonder only o] [Waste Iv	/anagemen	ent Other:							
1. Well Location inform	ation		WEST.	. in Lini	2. Facility	/ Owner Info	ormation	randa, di	4010			
	M Unique Well #	of Hic	ap#		Facility Nam							
DUNN	Removed Well						Oil Tank Farm					
Lattitude / Longitude (Degre	es and Minutes)	Method C	ode (see in	structions)	Facility ID (F	ID or PWS)	64 = 0 6 0 400					
44 • 52.92	'N	VICEIOCO O	000 (000 #1	No. Collons		1.44	617062490)				
	· ·,				License/Pen	mit/Monitoring	#					
<u>91</u> • <u>56.1</u>	<u> </u>	<u> </u>			Original Wel	LOwene						
14/4 SE 14 NE	Section	Towns	hip Rang	Pe ∏ E	Oliginal Wei		sica Amberg					
or Gov't Lot#	27	28	N 13	[x] w	Present Wel							
Well Street Address					1000111		ssica Ambeg					
511 Ist Ave W					Mailing Add	ress of Presen						
Well City, Village or Town		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Well ZIP C	ode	7710.1111.9 - 1		300 Ford	Road #7				
Menomonie			54751-		City of Pres	ent Owner		State	ZIP Code			
Subdivision Name			Lot#				is Park	MN	55426-			
					4. Pump.	Liner, Scree	n, Casing & Se	aling Mate	rial			
Reason For Removal From	Service Wi Unio	iue Well #	of Replacer	ment Well	\$1. \$2.00 \$400 \$1.00 Miles	**************************************				$[x]_{N/A}$		
Sampling Complete						d piping remov	/ea /	£		$[x]_{N/A}$		
3. Well / Drillhole / Bor					4	emoved?				$[x]_{N/A}$		
Monitoring Well	Original Co		Date (mm/	(dd/yyyy)	Screen re			}		f-v1		
Water Well		5/15/			-	ft in place?			Yes L No	[x] _{N/A}		
7-1	if a Well C please att		n Report is a	available,	1-1 T							
X Borehole / Drillhole	please au				Did seali	ng material ris	e to surface?			HN/A		
Construction Type:		Г	٦		1 -	rial settle after			Yes X No			
* *	riven (Sandpoint)	L	Dug		If yes	, was hole rete	opped? Isad were they h		lyes ∐No	X N/A		
Other (specify): Ge	oprobe						used, were they has a safe source?		Yes DNo	∐N/A		
Formation Type:					1		g Sealing Materia					
[X] Unconsolidated Form	ation [Bedrock	(ictor Pipe-Grav ned & Poured	rity Conduct					
Total Well Depth From Gro		Casing Dia	ameter (in.)			nea & Paurea mile Chips)	IAI Other (E	xplain): <u>Gra</u>	vity			
	10		vancena cantal libraria		Sealing Mat	erials						
Lower Drillhole Diameter (i	n.)	Casing De	pth (ft.)		Neat (Cement Grout			nd Slurry (11 li			
	2				Sand-	Cement (Cond	rete) Grout		e-Sand Slurry	* *		
Was wetl annular space gr	outed?	Yes [lNo □	Unknown	Concr			Bentonite	•			
		to Water					Monitoring Well B					
If yes, to what depth (feet)	ւ բերա	I IO AASICI			X Bento			ntonite - Cerr				
			7.5	सम्बद्धाः स्टब्स्ट स्टिन्ट 🗽	THE WARD COUNTY OF	lar Bentonite	∑1 Be	ntonite - San	a Siuny	<u></u>		
5. Material Used To Fill	Nell / Drillhole				From (ft.)	To (fL)	pounds					
Medium Bentonite Chip	S				Surface	10	15					
		-										
6. Comments								-, 45	en en Hallen			
Geoprobe Boring G-5 Abandoned by Geiss So	oil & Samples, LL	C under M	1ETCO sup	pervision								
7. Supervision of Worl	the second state of the second second second		dozio della	one carterer : Vegueta				DNR Use	Only	1-12-15		
Name of Person or Firm D	Date of F	illing & Sealir	ig (mm/dd/yyy	y) Date Receive	a No	ited By						
Eric Dahl		5/15/2017					ijanatzia					
						Telephone Number Comments						
709 Gill	ette Street, Suite 3	3		[((608) 781-8879							
City		State	ZIP Code		Signature of Person Deing Work Date Signed							
La Crassa		l wi	54603-	_	1 5	-1/3		1.4	6/1/17			

Well / Drillhole / Borehole Filling & Sealing Form 3300-005 (R 4/08) Page 1 of

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Route to:

☐ Verification Only of Fill	and Seal		☐ Drinking Water ☐ Waste Manag∋	nent	Watershed/Wastewater [X] Remediation/Redevelopment Other:									
1. Well Location Information	essells signed	rizi di kind	yafi sadiliya ey ş	2. F	acility	/ Owner Inf	ormation	04.0 3 0.33		Line pro				
	ique Well # o		ap #	Facilit	y Nami	9	X-45							
DUNN Remo	ved Well						Oil Tank l	^r arm	4					
Lattitude / Longitude (Degrees ar	d Minutee)	Method Co	via lega instructio	Facilit	y ID (F	ID or PWS)								
44 • 52.92	·	AICTION OF	Nie (see womani	<u> </u>			61706	2490						
	'N			Licens	e/Pem	nit/Monitoring	#							
91 - 56.1	'W			_										
14/14 SE 4 NE	Section	Townst	ip Range	E Origin	al Well	Owner								
or Gov't Lot #	27	28	N 13 X	W Bross			sica Ambei	·g						
Well Street Address				rese	nt vveil	Owner								
511 1st Ave W				N. J. o. 115 o.	_ 5.d.d.		ssica Ambe	g			Armenius II II			
Well City, Village or Town	A CONTRACTOR OF THE PARTY OF TH	Î	Well ZiP Code	Iylallin	g Agan	ess of Preser		Ford Roa	d #7					
Menomonie			54751-	City o	Draco	nt Owner	200		State	ZIP Code				
Subdivision Name			_ot #		riese		ois Park		MN	55426-				
						- In the transport of the second	TO PROPERTY OF THE PARTY OF THE	0.0 11	-1-00-20-00-0	1	TENE ILI.			
Reason For Removal From Serv	ce WI Uniqu	of Replacement W	ell 4. Pt	mih' r	Iner, Scree	n, casing	or Sealti	iy mata		Γ1				
Sampling Complete				Put	np and	l piping remo	ved?		님		XI _{N/A}			
3. Well / Drillhole / Borehole	Informatio	n		Lin	er(s) re	moved?			브		[X] _{N/A}			
-	Original Cor	struction !	Date (mm/dd/yyy)) Scr	een re	moved?				Yes LING	$[x]_{N/A}$			
Monitoring Well		5/15/2	2017	<u>Ca</u>	Casing left in place? Yes No [X]									
Water Well	If a Well Co	nstruction	Report is available	, Wa	s casir	ng cut off belo	w surface	,		Yes \square_{Nc}	[x] _{N/A}			
X Borehole / Drillhole	please atta	ch.		Did	sealin	g material ris	e to surfac	a?	[X]	Yes \square_{Nc}	$\square_{N/A}$			
Construction Type:			_	Did	mater	al settle after	24 hours?			_{Yes} [x] _{No}	, П _{N/A}			
Dritted Driven	(Sandpoint)]Dug			was hote ret				Yes DNo	[v]			
X Other (specify): Geoprob	e			lfb	entonik	e chips were i from a knowr	ised, were	they hydra	لممقد	Yes DNo				
Formation Type:						thod of Placin			F1	162	, , , , , , , , , , , , , , , , , , , ,			
* •	F	1		وشدن ا		tor Pipe-Grav			ine-Pumo	ed				
X Unconsolidated Formation		Bedrock		— П	Screen	ed & Poured		her (Expla						
Total Well Depth From Ground S	1	asing Dia	meter (III.)			rite Chips)		mormoons						
Lower Drillhole Diameter (in.)	0	asing Dep	alls (#)		g Mate				Clay San	d Charactét I	h deal set i			
Lower Diffinole Diameter (iii.)	2 [asing Dep	ar (ac)	=====================================	Neat Cement Grout Clay-Sand Slurry (11 lb./gal. w Sand-Cement (Concrete) Grout Bentonite-Sand Slurry "									
		<u>-</u>	1 1 7	Concrete Rentonite Chins										
Was well annular space grouted	· 📙	Yes L	No Unkno	W(1) T	I Concrete Enips I Generate Enips I Bentonite Unips I Bentonite Unips I Bentonite Unips									
If yes, to what depth (feet)?	Depth	to Water (feet)			ite Chips		P75	-	ent Grout				
			7.5			ar Bentonite	Ē	Benton						
5. Material Used To Fill Well)	ALCONOMIC ACTOR	and the state of		AT 19419 \$18883.178	r (ft.)	To (ft.)	31				NUMBER OF			
The state of the s	Urninoie.			tayan va dodraga a	4.3.2.2.3	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<u>por</u>	nds						
Medium Bentonite Chips				Sur	face	10		_15		ļ				
				<u> l</u>	71, 1111		tr _{is} scne	agrapiona et essa	or all are the contraction	l zkaca zastosa	Typh go apagent			
8. Comments							تسريب تنافه	<u> </u>						
Geoprobe Boring G-6 Abandoned by Geiss Soil & S	amples, LLC	under M	ETCO supervisio	n										
7. Supervision of Work	San San San San San San San San San San						13 00 80	D	NR Use					
Name of Person or Firm Doing F	illing & Sealir	ng Licens	e# Date o	_		(mm/dd/yyy	y) Date Re	ceived	No	ed By				
Eric Dahl					/2017				Jan Ka		igija k			
Street or Route				Telephor			Comme	nts						
709 Gillette St	reet, Suite 3			(608)							1011			
Cîty		State WI	ZIP Code 54603-	Signa	ure of	Person Doing	y Work			e Signed				
La Crosse ·	19	G-9/2- 6/1/17												

Well / Drillhole / Borehole Filling & Sealing Form 3300-005 (R 4/08) Page 1 of

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			R	oute to						F 7	
☐ Verification Only o	of Fill a	nd Seal		=	nking W		=	Watershed/Wa	astewater	XRemed	fiation/Redevelopment
				∐_Wa	ste Man	iagement		Other:			
1. Well Location Inform	nation			ing Kr			2. Facility	/ Owner Inf	ormation		
County	WI Uniqu	e Well # of	Hi	cap#			Facility Nam				
DUNN									Oil Tank Farm		
Lattitude / Longitude (Degr	rees and	Minutes) A	lethod C	ode (s	ee instn	uctions)	Facility ID (F	ID or PWS)	(170(340	Λ	
44 • 52.92		'n		·		-	Liconeo/Dos	mit/Monitoring	61706249	<u>υ</u>	
91 • 56.1		·w					Doerse rei	minal and a state of the	#		
							Original Wel	1 Owner			
W/W SE W NI	£	Section	Towns		Range	ΠĒ	- 1. g		sica Amberg		
or Gov't Lot#		27	28	N	13	X W	Present Wel	l Owner			
Well Street Address								Je	ssica Ambeg		
511 1st Ave W		amain'i Cita Mariama	Total Miles Indiana Contract and In	Tabil 7	IP Code		Mailing Add	ress of Preser	nt Owner		
Well City, Village or Town Menomonic				547		5			300 Ford	Road #7	
Subdivision Name		 		Lot #	31-		City of Prese	ent Owner		State	ZIP Code
CODGITION INCIDE									is Park	MN	55426-
Reason For Removal From	n Service	WI Uniqu	e Well #	of Rep	acemer	nt Well	4. Pump, l	.iner, Scree	n, Casing & S	ealing Mate	irial :
Sampling Complete							Pump and	d piping remov	ved?	<u></u>	Yes No [X]N/A
3. Well / Drillhole / Bot	rehole In	formation	1	e i Wa		in tell yide	Liner(s) re	emoved?			Yes No [X]N/A
The second secon	Ю	iginal Con	struction	Date (mm/dd/	уууу)	Screen re	moved?			Yes No X N/A
Monitoring Well			5/15/	2017			Casing le	ft in place?	A. I. W. A. J. W. W. W. W. D. B. W. W. W. W. W. W. W. W. W. W. W. W. W.		Yes No XNA
Water Well	11	a Well Cor	rstruction	n Repo	rt is avai	ilable,	Was casi	na cut off belo	w surface?] _{Yes} □ _{No} [x] _{N/A}
X Borehole / Drillhole		lease atlac					Did sealir	ng material rise	e to surface?	[x	lyes □No □N/A
Construction Type:								rial settle after			Yes [X]No IN/A
Drilled [Orlven (Sa	ndpoint)		Dug				, was hole rete			Yes No XNA
X Other (specify): Ge	eoprobe						If bentonii	te chips were to	ised, were they l safe source?	hydrated [x	Iyes Ono On/A
Formation Type:									g Sealing Materi		-1001071
X Unconsolidated Form	ation		Bedrock	k			Condu	ctor Pipe-Grav	rity Conduc	tor Pipe-Pum	ped
Total Well Depth From Gro		ace (ft.) C	,		(in.)			ned & Poured nite Chips)	[X] Other (E	explain): Gr	avity
Total Won Dopin From Di	10	(,,			()		Sealing Mate				
Lower Drillhole Diameter (in.)	C	asing De	pth (ft.)		ک پیشنو	ement Grout		Clay-Sar	nd Slurry (11 lb./gal. wt.)
·	2		-				Sand-(Cement (Conci	rete) Grout	Bentonit	e-Sand Slurry " "
Man wall appeller canon or	coutod?	$\overline{\Box}$	es [No	Пи	nknown	Concre	ate		Bentonit	e Chips
Was well annular space gr					LI UI	INTOMIC			Aonitoring Well E	Boreholes On	ly:
If yes, to what depth (feet)	3	Depth t	o Water	(teet)		į	[X] Benton			ntonite - Cen	
				Takabanda	7.5		Granul	ar Bentonite	∟ Be	ntonite - San	d Slurry
5. Material Used To Fill	Well / Dri	lihole 🧢					From (ft.)	To (ft.)	pounds		
Medium Bentonite Chip) S			····			Surface	10	15	, , , , , , , , , , , , , , , , , , , 	
				is the said that the	CONTRACTOR OF THE PARTY OF THE		*****				
					•••						
6. Comments	· · · · · · · · · · · · · · · · · · ·			4 N. 54 (V) 3. 1 N. 7 N.	-1, 43, 2-11, -1, 13, 14, 14, 14, 14, 14, 14, 14, 14, 14, 14		na natedonia. Morgani Sitt		Joseph William		
Geoprobe Boring G-7 Abandoned by Geiss So	oil & Sam	ples, LLC	under M	1ETCC) superv	ision/					
7. Supervision of World	\$									DNR Use	Only
Name of Person or Firm D		g & Sealin	g Licen	se#	Da	ate of Fil	ing & Sealin	g (mm/dd/yyy)	/) Date Receive	Table and and extended the second of the	ned By
Eric Dahl							5/15/2017		1141.300 Apr. 1137131	neitro D	AMADINE DE SANCE
Street or Route							lephone Nun		Comments	do consta	
	ette Stree						608) 781-		rii dy codifici		
City			State	ZIP C			Signature of	Person Doing	Work	Da	ite Signed
La Crosse	٠.		WI	54	603-		4	1/am		16	5/1/1/

Well / Drillhole / Borehole Filling & Sealing Form 3300-005 (R 4/08) Page 1 of

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

☐ Verification Only of Fill	and Seal		ute to: Drinking Waste f	g Water Vanagemen		vatershed/Wa	slewater	[X]Remed	liation/Redeve	lopment
1. Well Location Information		dada. ek		. British J	2. Facility	Owner Info	ormation			
	que Well # of	Hica	3p#	300 000,000,000	Facility Name	1			, , , , , , , , , , , , , , , , , , , ,	
Remov	red Well					Amberg (Oil Tank Farm			
DUNN				47 3	Facility ID (Fi	D or PWS)				
Lattitude / Longitude (Degrees an	d Minutes) M	ethod Co	ide (see ir	istructions)			61706249	0		
<u>44</u> • <u>52.92</u>	'N			-	License/Pern	nit/Monitoring	#	·		
91 • 56.1	w									
7414 SE 74 NE	Section	Townsh	ip Rang	7 0 ПЕ	Original Well					
or Gov't Lot #	27	28	N 13	t J			ica Amberg			
Well Street Address	1 - 2 /	1 -0	14 -0	[A] 17	Present Well					
							sica Ambeg			, ,
511 1st Ave W Well City, Village or Town	Wasan Company of the	1	Nell ZIP C	ade	Mailing Addr	ess of Present				
Menomonie		ľ	54751-	,,,,,			300 Fore	l Road #7	bio o de	
Subdivision Name		— k	_ot#	· · · · · · · · · · · · · · · · · · ·	City of Prese			State	ZIP Code	
2000lasou Manie		Ĩ	-0117				is Park	MN	55426-	Post of T
Reason For Removal From Servi	ce Wi Unique	e Well# o	of Replace	ment Well	4. Pump, L	iner, Screer	n, Casing & 9	ealing Mat	rial	
	· · · · · · · · · · · · · · · · · · ·		•		Pump and	piping remov	red?		Yes LNo	
Sampling Complete 3. Well / Drillhole / Borehole	laformation			Tananga	Liner(s) re	moved?			J _{Yes} □ No	$[X]_{N/A}$
3. Well / Drimitore / Bulenole	Original Cons		Date (mm	/dd/www)	Screen re] _{Yes} □ _{No}	$[x]_{N/A}$
Monitoring Well	Original Cons	5/15/2		, 41 (1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	1	t in place?] _{Yes} \square_{No}	$[x]_{N/A}$
Water Well	If a Well Cor			adelia.		g cut off belo	w eurface?		Yes DNo	[x] _{N/A}
X Borehole / Drillhole	please attac		report is	avallaute,	1	g cat on belo g material rise		Īx	Yes DNo	-
Construction Type:					1	_			Tyes [x]No	
	(Sandpoint)	Г	Dug		1	ial settle after was hole reto		. —	J _{Yes} □No	[v]
<u> </u>		1	Tona		If bentonit	e chips were u	ised, were they	4		l1
X Other (specify): Geoprob	Č.				with water	from a known	safe source?	La La	I _{Yes} D _{No}	LJN/A
Formation Type:					: —		g Sealing Mater		د	
X Unconsolidated Formation		Bedrock				ctor Pipe-Grav ed & Poured		ctor Pipe-Pun	•	
Total Well Depth From Ground S	urtace (ft.) Ca	asing Dia	meter (in.)	(Bento	et & rouled lifte Chips)	LAJ Other (Explain): Gr	avity	
1	0				Sealing Mate	rials		 -		
Lower Drillhole Diameter (in.)	C	asing Dep	pth (ft.)		 	ement Grout		_ '	nd Slurry (11 l	•
	2				Sand-C	ement (Concr	rete) Grout	P	te-Sand Slurry	
Was well annular space grouted	, n	es []No □	Unknown	Concre				te Chips	
·			_ , - +		For Monitorin	=	Monitoring Well			
If yes, to what depth (feet)?	Debtu	o Water (ite Chips		entonite - Cer		
			7.5)	☐ Granul	ar Bentonite	ВШ	entonite - Sar	nd Slurry	
5. Material Used To Fill Well /	Drillhole				From (fL)	To (ft.)	pound	5		
Medium Bentonite Chips	IN WASHINGTON	***************************************		· · · · · · · · · · · · · · · · · · ·	Surface	10	15	,		
THOUSAND DOLLOWS COMPO										
					<u>- </u>					
6. Comments			- 121 E. ME							
Geoprobe Boring G-8	<u> </u>		*	ggi s stank Stake	S 1	V 1/2 1, 2 1 2 1 1 2 1 2 2 2 2 2 2 2 2 2 2 2	i varia 11,2 g., g., j a intentio	5/8/100 mg 1 1 ng ga 100 mg 14/44		
Abandoned by Geiss Soil & S	Samples, LLC	under M	ETCO su	pervision						
7. Supervision of Work				The State of the S				DNR Us	e Only	
Name of Person or Firm Doing F	illing & Sealin	g Licens	se #	Date of F	iling & Sealin	g (mm/dd/yyy	y) Date Receiv	ed N	oted By	
Eric Dahl	g		* *		5/15/2017					Barry W
Street or Route				- I	elephone Nun		Comments			
709 Gillette S	treet, Suite 3				608) 781-					nad ber
City		State	ZIP Code	B		Person Doing	g Work	þ	ate Signed	***************************************
La Crosse		WI	54603	-	5	1/-			0/1/1/	

Well / Drillhole / Borehole Filling & Sealing Form 3300-005 (R 4/08) Page 1 of

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

| Route to:

DUNN Removed Viseli Amberg Oil Tank Farm Amberg Oil Tank Far	☐ Verification Only of Fill	and Seal	1 1	=	ng Water Manageme	ent 🔲	Watershed/Wa	astewater	[X]Ren	nediation	ı/Redeve	elopment	
DUNN Callifued Longitude (Degrees and Minutes) Method Code (see instructions) Facility 10 (FID or PWS) 10 (FID o	1. Well Location Information		orienia. Tribationis	-RABba		2. Facility	The state of the s						
DUNN			of Hi	сар#		Facility Nam	ne						
Activate Conglitude (Degrees and Minutes) Method Code (see instructions) Ad S2.92 N N Section N N N N N N N N N		vea vveii						Oil Tank Far	m				
1		d Minutes)	Method C	ode (see	instructions	Facility (D (F 3)	FID or PWS)						
Section Section Township Range Section Township Range Section Township Range Section Township Range Section Township Range Section	and the second s			(- 14 4 4		190				
All SE NE Section Rownship Range To Gov/Lot # 27 28 N 13 X W Present Well Cover Jessica Amberg Jessica Jessica Amberg Jessica Jessica Amberg Jessica Jes						License/Per	mivMonitoring	#					
Jessica Amberg Jess						Original Mia	II Oumor	·······					
Well City. Village or Town Mell City. Village or Town Mell City. Village or Town Menomonie Subdivision Name Lot # Sit Lois Park Menomonie Subdivision Name Lot # Sit Lois Park Milling Address of Present Owner Subdivision Name Lot # Sit Lois Park Milling Address of Present Owner Subdivision Name Lot # Sit Lois Park Milling Address of Present Owner Subdivision Name Lot # Sit Lois Park Milling Address of Present Owner Sit Lois Park Milling Address of	DB INE	_		1		Onginal tre		sica Amberg					
Sil list Ave W Mell City, Village or Town Mell Zity Code S4751		27	28	N 1	3 [x] w	Present We							
Mell City, Wilege or Town Mell ZiP Code 380 Ford Road #7 State ZiP Code 380 Ford Road #7 State ZiP Code 380 Ford Road #7 State ZiP Code Studivision Name Zip Code Zi	Well Street Address						Je	ssica Ambeg					
Subdivision Name					<u> </u>	Mailing Add	ress of Presen	it Owner					
Subdivision Name Cot# St Lois Park Min Set26- Reason For Removal From Service Wil Unique Well # of Replacement Well	•· -			1		·		300 Fe	rd Road #7				
Reason For Removal From Service Wi Unique Weil # of Replacement Weil Sampling Complete Sampling Comp					· · · · · ·	City of Pres	ent Owner		State	ZIP	Çode		
Pump and piping removed? Yes No X N/A	Suddivision Name			COL#			St Lo	is Park	MN		55426-		
Sampling Complete Pump and piping removed? Yes No X N/A N/A	Reason For Removal From Seni	re Mi Unia	ue Well#	of Renlac	ement Well	4. Pump,	Liner, Scree	n, Casing &	Sealing M	aterial			
Liner(s) removed? Yes No X N/A X N/A Yes Yes No X N/A X N/A Yes Yes Yes No X N/A Yes Yes No X N/A Yes Yes No X N/A Yes Yes No X N/A Yes Yes Yes No X N/A Yes Yes Yes No X N/A Yes Yes Yes No X N/A Yes Yes Yes No X N/A Yes Yes Yes No X N/A Yes						Pump an	d piping remov	red?		□yes	□ _{No}	$[x]_{N/A}$	
Monitoring Well S/15/2017 Screen removed? Yes No X N/A		Informatic	· · · · · · · · · · · · · · · · · · ·			"			•	□ _{Yes}	\square_{Nc}		
Monitoring Well If a Welt Construction Report is available, please attach. Vascer Well If a Welt Construction Report is available, please attach. Did seeling material rise to surface? Ves No NA NA NA NA NA NA NA				Date (mn	n/dd/vvvv)	끡 ''				□Yes	□Nc		
Water Well	Monitoring Well	2.1.3.1.2.1		-						\square_{Yes}	□Nc		
X Borehole / Drillhole Dilease attach. Did sealing material rise to surface? X Yes No N/A	Water Well	If a Well Co			available.			w surface?		Tyes	DNC	71	
Did material settle after 24 hours? Yes X No N/A In the composition of the	X Borehole / Drillhole					1	•						
Drilled	Construction Type:		···			1							
If bentonite chips were used, were they hydrated X Yes No N/A	Drilled Driven (Sandpoint)		Dug		ı							
Formation Type: [X] Unconsolidated Formation Total Well Depth From Ground Surface (ft.) Lower Drillhole Diameter (in.) Lower Drillhole Drill	X Other (specify): Geoprobe	;	_	_					y hydrated				
[X] Unconsolidated Formation										L>165	<u> </u>	<u> </u>	
Screened & Poured (Renionite Chips) Casing Diameter (in.) Casing Diameter (in.) Casing Diameter (in.) Sealing Materials Sealing Monitoring Well Boreholes Only: Sealing Mo			7.5.4			<u> </u>		" ,		umped			
Sealing Materials Cower Drillhole Diameter (in.) Casing Depth (ft.) Casing Depth (ft.) Casing Depth (ft.) Casing Depth (ft.) Casing Depth (ft.) Concrete Concrete Concrete For Monitoring Wells and Monitoring Well Boreholes Only: X Bentonite Chips For Monitoring Wells and Monitoring Well Boreholes Only: X Bentonite Chips Casing Depth to Water (feet) Sand-Cement (Concrete) Grout Bentonite Chips For Monitoring Wells and Monitoring Well Boreholes Only: X Bentonite Chips Casing Depth to Water (feet) For Monitoring Wells and Monitoring Well Boreholes Only: X Bentonite Chips From (ft.) Form (ft.)		urta-o (B.) k			~~~	- Screen	ned & Poured						
Cower Drillhole Diameter (in.) Casing Depth (ft.) Neat Cement Grout Sand-Cement (Concrete) Grout Sand-Cement (Concrete) Grout Sand-Cement (Concrete) Grout Sand-Cement (Concrete) Grout Sand-Cement (Concrete) Grout Sand-Cement (Concrete) Grout Sand-Cement (Concrete) Grout Sand-Cement (Concrete) Grout Sand-Cement (Concrete) Grout Sand-Cement (Concrete) Grout Sand-Cement (Concrete) Grout Sand-Cement (Concrete) Grout Sand-Cement (Concrete) Grout Sand-Cement (Concrete) Grout Sentonite Chips Sentonite Chips Sentonite - Cement Grout Sentonite - Cement Grout Sentonite - Cannot Grout Sentonite - Cannot Grout Sentonite - Cannot Grout Sentonite - Cannot Grout Sentonite - Cannot Grout Sentonite - Cannot Grout Sentonite - Cannot Grout Sentonite - Cannot Grout Surface 10 15 DNR.Use Only Noted By Serie Dall Street or Route Telephone Number Contribut Contribut Concrete Sentonite - Cannot Grout Sen		` · · 1	vasiliğ Ola	sereret (iii	•)				(m,4,).				
Sand-Cement (Concrete) Grout Bentonite-Sand Sturry Was well annular space grouted? Yes No Unknown Concrete Bentonite Chips Bentonite Chips Bentonite Chips Bentonite Chips Bentonite Chips Bentonite Chips Bentonite Chips Bentonite Chips Bentonite Chips Bentonite - Sand Sturry			Casino De	oth (ft)	n				Clay-	Sand Sli	arry (11)	f.tw.tsn/.d	
Was well annular space grouted? Yes No Unknown For Monitoring Wells and Monitoring Well Boreholes Only: See Honorite Chips Bentonite Chips Bentonite - Cement Grout Bent	2		oung ou	pur (ita)									
Was well annular space grouted? Yes	A			7 F	1	Concrete Reptopite Chine							
8 Granular Bentonite Clips Bentonite - Sand Sturry 5. Material Used To Fill Well / Drillhole From (ft.) To (ft.) pounds Medium Bentonite Chips Surface 10 15 6. Comments Geoprobe Boring G-9 Abandoned by Geiss Soil & Samples, LLC under METCO supervision 7. Supervision of Work Name of Person or Firm Doing Filling & Sealing License # Date of Filling & Sealing (mm/dd/yyyy) Date Received Noted By Eric Dahl Street or Route Telephone Number (608) 781-8879 City State ZIP Code Signature of Person Doing Work Date Signature of Person Doing Work Date Signature of Person Doing Work Date Signature of Person Doing Work Date Signature of Person Doing Work Date Signature of Person Doing Work Date Signature of Person Doing Work Date Signature of Person Doing Work Date Signature of Person Doing Work Date Signature of Person Doing Work Date Signature of Person Doing Work Date Signature of Person Doing Work Date Signature Of Person Doing Work Date Signature Date Signature Of Person Doing Work Date Signature Date Signature Of Person Do	Was well annular space grouted?		Yes L	INO L	Unknowi	1 ********		lonitoring We					
Medium Bentonite Chips Surface 10 Surfac	If yes, to what depth (feet)?	Depth	to Water	(feet)		X Bentor	lite Chips						
Medium Bentonite Chips Surface 10 15 Comments Geoprobe Boring G-9 Abandoned by Geiss Soil & Samples, LLC under METCO supervision 7. Supervision of Work Name of Person or Firm Doing Filling & Sealing License # Date of Filling & Sealing (mm/dd/yyyy) Date Received Noted By Eric Dahl Street or Route 7.09 Gillette Street, Suite 3 City State ZIP Code Signature of Person Doing Work Date of Filling & Sealing (mm/dd/yyyy) Date Received Noted By Signature of Person Doing Work Date Signature of Person Doing Work Date Signature of Person Doing Work Date Signature of Person Doing Work Date Signature of Person Doing Work Date Signature of Person Doing Work				8		Granul	ar Bentonite		Bentonite - S	and Stu	ту		
Medium Bentonite Chips Surface 10 15 Comments Geoprobe Boring G-9 Abandoned by Geiss Soil & Samples, LLC under METCO supervision 7. Supervision of Work Name of Person or Firm Doing Filling & Sealing License # Date of Filling & Sealing (mm/dd/yyyy) Date Received Noted By Eric Dahl Street or Route 7.09 Gillette Street, Suite 3 City State ZIP Code Signature of Person Doing Work Date of Filling & Sealing (mm/dd/yyyy) Date Received Noted By Signature of Person Doing Work Date Signature of Person Doing Work Date Signature	5. Material Used To Fill Well / I) Prillhole		andright at		From (ft.)	To (ft.)	poun	ds				
Geoprobe Boring G-9 Abandoned by Geiss Soil & Samples, LLC under METCO supervision 7. Supervision of Work Name of Person or Firm Doing Filling & Sealing License # Date of Filling & Sealing (mm/dd/yyyy) Date Received Noted By Eric Dahl Street or Route 7.09 Gillette Street, Suite 3 (608) 781-8879 City State ZIP Code Signature of Person Doing Work Date Signature	Medium Bentonite Chips	eloge militaria	v region (1951) po rivera	strone page - 1 to 5 to	- <u>1995-1-12 (1991-19</u>	Surface	10	<u> </u>				····	
Geoprobe Boring G-9 Abandoned by Geiss Soil & Samples, LLC under METCO supervision 7. Supervision of Work Name of Person or Firm Doing Filling & Sealing License # Date of Filling & Sealing (mm/dd/yyyy) Date Received Noted By Eric Dahl Street or Route 709 Gillette Street, Suite 3 City State ZIP Code Signature of Person Doing Work DNR Use Only Noted By Follows Person Number Comments (608) 781-8879 Date Signature of Person Doing Work Date Signed							10			\neg			
Geoprobe Boring G-9 Abandoned by Geiss Soil & Samples, LLC under METCO supervision 7. Supervision of Work Name of Person or Firm Doing Filling & Sealing License # Date of Filling & Sealing (mm/dd/yyyy) Date Received Noted By Eric Dahl Street or Route 709 Gillette Street, Suite 3 City State ZIP Code Signature of Person Doing Work DNR Use Only Noted By Follows Person Number Comments (608) 781-8879 Date Signature of Person Doing Work Date Signed		· · · · · · · · · · · · · · · · · · ·			······································	 						· · · · · · · · · · · · · · · · · · ·	
Geoprobe Boring G-9 Abandoned by Geiss Soil & Samples, LLC under METCO supervision 7. Supervision of Work Name of Person or Firm Doing Filling & Sealing License # Date of Filling & Sealing (mm/dd/yyyy) Date Received Noted By Eric Dahl Street or Route 709 Gillette Street, Suite 3 City State ZIP Code Signature of Person Doing Work DNR Use Only Noted By Filling & Sealing (mm/dd/yyyy) Date Received Noted By Forminents Comments Comments Comments State ZIP Code Signature of Person Doing Work Date Signed	6. Comments	7 (1.17) (1.1 7)	- W. B. 185	egeti i t								THE TYPE	
7. Supervision of Work Name of Person or Firm Doing Filling & Sealing License # Date of Filling & Sealing (mm/dd/yyyy) Date Received Noted By Eric Dahl Street or Route 709 Gillette Street, Suite 3 City State ZIP Code Date of Filling & Sealing (mm/dd/yyyy) Date Received Noted By Foliagona Comments Comments Comments Comments Signature of Person Doing Work Date Signed	Geoprobe Boring G-9	amples, LLC	under M	ETCO su	pervision	F 1 (1800 10130, 1811.)	<u> </u>		of the second phase on the second second second	and the property of the Party	and again, many a re-	AMERICA CONTRACTOR	
Name of Person or Firm Doing Filling & Sealing License # Date of Filling & Sealing (mm/dd/yyyy) Date Received Noted By 5/15/2017 Street or Route Telephone Number Comments 709 Gillette Street, Suite 3 (608) 781-8879 City State ZIP Code Signature of Person Doing Work Date Signed									DNR L	se Onl	ve de la		
Eric Dahl 5/15/2017 Street or Route Telephone Number Comments 709 Gillette Street, Suite 3 (608) 781-8879 City State ZIP Code Signature of Person Doing Work Date Signature	to the street of Branch and the street of th	ling & Seali	ng Licen	se#	Date of I	illing & Sealin	g (mm/dd/yyvv	/) Date Rece	and the Taylor State Called and A.	***			
709 Gillette Street, Suite 3 (608) 781-8879 City State ZIP Code Signature of Person Doing Work Date Signed						_	, , , , ,			i zirir	m Kor Hasin		
City State ZIP Code Signature of Person Doing Work Date Signed	Street or Route				h			Comments	de energi		100,000		
		eet, Suite 3				(608) 781-	8879_	72:12:11:11:11:11:11:11:11:11:11:11:11:11					
La Crosse WI 54603- 6/1/17	City		State	ZIP Cod	e	Signature of	Person Doing	Work		Date SI	gned		
	La Crosse		WI	54603	-		1/am			6/	<u> (//7</u>		

Well / Drillhole / Borehole Filling & Sealing Form 3300-005 (R 4/08) Page 1 of

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Route to:

☐ Verification Only o	f Fill and Seal		Drinking Wat		Watershed/Waslewater [X] Remediation/Redevelopmer							
1. Well Location inform	allah da da da da da da da da da da da da da			. ATION	2. Facility	/ Owner Inf	ormation	Jako Alija				
The state of the s	W Unique Well # o	f Hica	ip#	20.722.1	Facility Nami	C 2 - 40 Kg & C 2 (20) 2 2 (20) 320	A11	A) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C	Par Assetti			
•	Removed Well	ł				Amberg	Oil Tank Fa	rm				
DUNN					Facility ID (F	ID or PWS)						
Lattitude / Longitude (Degr		Method Co	ide (see instruc	cuons)			617062	190				
<u>44</u> • <u>52.92</u>	'N				License/Perr	nit/Monitoring	#					
91 • 56.1	w											
1/1/2 SE 1/2 NE	Section	Townsh	ip Range r	ΠE	Original Well							
or Gov't Lot #	27	28	N 13	ابمالح			sica Amberg		<u></u>			
Well Street Address			1	A	Present Well	-	ssica Ambeg					
511 Ist Ave W					5 5 - 541							
Well City, Village or Town		Į.	Vell ZiP Code		Mailing Address of Present Owner 300 Ford Road #7							
Menomonie			54751-		City of Decay	ort Ourone	300 F		DIP Code			
Subdivision Name			_ot #		City of Present Owner State ZIP Code St Lois Park MN 55426-							
- Constitution of the contract					N STATE OF STATE		Stiffin in it.					
Reason For Removal From	Service WI Uniq	ue Well # c	f Replacement	Well	4, Pump, L	iner, Scree	n, vasing o	Sealing Ma		<u>isia 1664.</u> TwaT		
Sampling Complete					Pump and	_Yes ∐∾	[X] _{N/A}					
3. Well / Drillhole / Bor	ehole Informatio	in .			Liner(s) re	emoved?			∐Yes ∐No			
			Date (mm/dd/y	ууу)	Screen re	moved?			_Yes ∐ №			
Monitoring Well		5/15/2			Casing le	ft in place?			Yes L_No			
Water Well	if a Well C	onstruction	Report is availa	able,	Was casir	ng cut off belo	w surface?		Yes No	$[X]_{N/A}$		
[X] Borehole / Drillhole	please atta	ch.	,		1	ig material ris			X Yes No	$\square_{N\!/A}$		
Construction Type:						ial settle after		[□ _{Yes} [x] _{No}	$\square_{N\!/A}$		
Drilled C	Oriven (Sandpoint)		Dug			, was hole ret			□ _{Yes} □ _{No}	$[X]_{N/A}$		
X Other (specify): Ge			_		If bentonit	e chips were i	used, were th	ey hydrated	xl _{Yes} □ _{No}	□ _{N/A}		
					11 10 10 10 10 10 10 10	thod of Placin			1163 115(10			
Formation Type:		-							mped			
[X] Unconsolidated Form		Bedrock			Conductor Pipe-Gravity Conductor Pipe-Pumped Screened & Poured X Other (Explain): Gravity							
Total Well Depth From Gro		Casing Dia	meter (in.)		· · · · · · · · · · · · · · · · · · ·	nite Chips)		1 (Explain):				
	10		4L (4)		Sealing Mate	enais ement Grout		Clause	iand Slumy (11 I	h /nal wt \		
Lower Drillhole Diameter (in.) 2	Casing Dep) (R.)			cement (Conc	roto) Crout		nite-Sand Slurry			
					Concre	•	iele) Glout		nite Chips			
Was well annular space gr	routed?	Yes L	No ∐Uni	known	1		Monitorina Wi	all Boreholes C	•			
If yes, to what depth (feet)	? Depth	to Water (feet)		[X] Bentor			Bentonite - Co				
,,,,,,,,,,,,,,-			7.5		1	ar Bentonite		Bentonite - Sa				
The registration on Jack Henry		Barin Hot	Table Radio	igatu N	From (ft.)	では、日ン学業等等が	J					
5. Material Used To Fill	Well / Drillhole				5-10-1-10-10-10-10-10-10-10-10-10-10-10-1	To (fL)	/ pour	·				
Medium Bentonite Chip)S				Surface	10		15				
							-4					
					<u> </u>				managaran da Nasaria	en estados		
6. Comments						line of pera	21 H41 5	<u>Caracillations</u>		Service Inc.		
Geoprobe Boring G-10 Abandoned by Geiss So	oil & Samples, LL	C under M	ETCO supervi	ision	**************************************	**************************************						
7. Supervision of Wor									se Only			
Name of Person or Firm D		ng Licens	se# Da	te of Fi	ling & Sealin 5/15/2017	g (mm/dd/yyy	y) Date Rec	alved	Noted By			
Eric Dahl							e cağımı	ğirili (d. 1949)		ubinatiby)		
011001 0, 110214						Telephone Number Comments						
709 Gillette Street, Suite 3						(608) 781-8879						
City		State	ZIP Code	Signature of Person Doing Work Date Signed				7				
La Crosse	· .	WI	54603-		12-1- 16/1/1							

Well / Drillhole / Borehole Filling & Sealing Form 3300-005 (R 4/08) Page 1 of

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Route to:

☐ Verification Only of Fil	l and Seal		=	inking Water aste Manageme	ent _	Watershed/Wa	stewater [3	X]Remedi	ation/Redeve	lopment
1. Well Location Informatio		1	algorith.	Carrigation	2. Facilit	v / Owner Info	ormation -			
	nique Well # of	Hi	cap#	e orangetter the supplie	Facility Nar		10,178,00-20,000 (A),127,000	respondent and a	en en en en en en en en en en en en en e	
	ved Well		-			Amberg	Oil Tank Farm			
DUNN	****		N1- 1		Facility ID ((FID or PWS)		***************************************		
Lattitude / Longitude (Degrees a 44 • 52.92		sinoa C	ode (see instruction:	3)		617062490			
44 •52.92	'N				License/Pe	rmit/Monitoring	#			
91 . 56.1	·wl .									
14 SE 14 NE	Section	Towns	ship	Range T E	Original We					
or Gov't Lot #	27	28	N		,		sica Amberg			
Well Street Address		1		[2]	Present We					
511 1st Ave W					11-20-1-0-4		sica Ambeg			
Well City, Village or Town	- All All All All All All All All All Al		Well:	ZłP Code	-Mailing Add	dress of Present	t Owner 300 Ford Ro	ad 47		
Menomonie			54	751-	City of Den	net Owner	300 Pora Ro	State	ZIP Code	····
Subdivision Name			Lot#		City of Pres	sent Owner	• n		55426-	
					5-200-200-200-20		is Park	MN	1 20 30 30 30 30 30 30	
Reason For Removal From Serv	rice WI Unique	Well#	of Re	placement Well	4. Pump,	Liner, Screen	n, Casing & Seal	ing mate		
Sampling Complete					Pump ar	nd piping remov	red?			[X] _{N/A}
3. Well / Drillhole / Borehole	Information		55.75		Liner(s)	removed?				$[x]_{N/A}$
	Original Const	ruction	Date	(mm/dd/yyyy)	Screen	removed?			Yes LINo	$[x]_{NA}$
Monitoring Well			<mark>/2017</mark>		Casing	eft in place?			Yes No	[X] _{N/A}
Water Well	If a Well Com	structio	n Rep	ort is available,		sing cut off below	w surface?	П	Yes No	$[x]_{N/A}$
X Borehole / Drillhole	please attach		•	·	1	ling material rise		[x]	Yes DNo	$\square_{N/A}$
Construction Type:					į	erial settle after			Yes [X]No	□ _{N/A}
Drilled Driven	(Sandpoint)		Dug	9	i i	s, was hole reto		·	Yes DNo	$[X]_{N/A}$
X Other (specify): Geoprob	ie	-					sed, were they hyd safe source?		Yes \square_{No}	□ _{N/A}
							Sealing Material	1,,	IES	1/1/1
Formation Type:	<u></u>				I —	-	ity Conductor	Pine-Pum	ped	
[X] Unconsolidated Formation		3edroc			Scree	ened & Poured	[x] Other (Expl			
Total Well Depth From Ground S		sing Di	amete	er (in.)		ionite Chips)	1 2 Other (Exp.	anı, <u> </u>		
	0	sing De	anth (f	• \	Sealing Ma	tenais Cement Grout		Clay Can	d Slurry (11 lb	Log was
Lower Drillhole Diameter (in.)	2	aufi De	spur (ii	i.)	1 ===	-Cement (Concre	oto) Grout	i i	-Sand Slumy	-
					Conc		ele) Glock	Bentonite	-	
Was well annular space grouted	? ∐Ye	s L	No	Unknow	13 1		ىـــــ fonitoring Well Bore			
If yes, to what depth (feet)?	Depth to	Water	(feet)	<u> </u>		onite Chips	- p	nite - Cem		
				8		ular Bentonite		nite - Sand		
5. Material Used To Fill Well /			\$ To 39		From (ft.)	Later Company of the	ST.	-1125		
and the state of t	Diminole		**** <u>\$</u>		5.5 2.03k (X-245)	State and the state of the stat	pounds		<u> </u>	<u> </u>
Medium Bentonite Chips					Surface	10	15			
						+			<u> </u>	
6. Comments			d Vita							ie wrotely Bawoelk
Geoprobe Boring G-11 Abandoned by Geiss Soil & S	Samples, LLC u	nder N	иетс	O supervision						
7. Supervision of Work								DNR Use	Only	
Name of Person or Firm Doing F	illing & Sealing	Licer	15e#	Date of		ng (mm/dd/yyyy) Date Received	No	ted By	
Eric Dahl					5/15/201	.7		ydyddi Q		distribution
Street or Route					Telephone Nu	ımber	Comments	u sinteirie Norden		
709 Gillette S	•				(608)781				idadiroka isali t Polisiona	AND THE STREET
City	S	tate		Code		of Person Doing	Work	Da	te Signed	
La Crosse		WI	1 5	4603-	15	1/2		16	/////	

Well / Drillhole / Borehole Filling & Sealing Form 3300-005 (R 4/08) Page 1 of

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

Verification Only of F	ill and Seal		o: inking Water aste Managemer	nt 🔲	Watershed/Was	stewater	[X] Remedi	ation/Redevel	lopnient
1. Well Location informati	on the	raby salagas		2. Facilit	y / Owner Info	rmation			
The state of the s	Jnique Well # of	Hicap #		Facility Nar	A	Approximation of the second	Salaya, Arenay, America	The state of the s	
Ren	noved Well					Oil Tank Farm			
DUNN				Facility ID (FID or PWS)	· · · · · · · · · · · · · · · · · · ·	,		
Lattitude / Longitude (Degrees	and Minutes) Me	thod Code (s	see instructions)	1		617062490			
<u>44</u> • <u>52.92</u>	'N			License/Pe	rmit/Monitoring #	#			
91 • 56.1	·w			1					
%/% SE	Section	Township	Range E	Original We	II Owner				
or Gov't Lot #	27		1 . 1 .			ica Amberg			
Well Street Address	27	28 N	13 X W	Present We	III Owner				
						sica Ambeg			
511 1st Ave W Well City, Village or Town		Mell :	ZIP Code	-Mailing Add	iress of Present				
Menomonie			751-		· · · · · · · · · · · · · · · · · · ·	300 Ford		leas was a	
Subdivision Name		Lot #	731-	City of Pres	ent Owner		State	ZIP Code	
Cubdivision Nume		["				s Park	MN	55426-	
Reason For Removal From Se	nice Wi Unique	Well # of Ren	placement Well	4. Pump,	Liner, Screen	, Casing & Se	aling Mate	rial de la company	
Sampling Complete			• "	Pump ar	nd piping remove	ed?		Yes \square_{No}	$[x]_{N/A}$
3. Well / Drillhole / Boreho	de Information	150400-120	o or a substantial	≓	removed?			Yes \square_{No}	$[x]_{N/A}$
3. Hell / Dilanole / Dolenc	Original Const	auction Date	(mm/dd/www)	4 ` '	emoved?			Yes No	$[x]_{N/A}$
Monitoring Well .	Original Odilot	5/15/2017		1	eft in place?			Yes No	[x] _{N/A}
Water Well	If a Well Cons			-	ing cut off belov	u curface?	П	Yes No	x N/A
X Borehole / Drillhole	please attach.		an is byblicable,	1	ing cat an belov ing material rise			Yes \square_{No}	□ _{N/A}
Construction Type:				1	-	_		Yes [x]No	
	en (Sandpoint)	Dug	,		erial settle after : s, was hole reto		11		X N/A
	• • •		,				ydrated r_1		
X Other (specify): Geopr	one					sed, were they h safe source?		Noلسا Yes	LJN/A
Formation Type:				وشمرا	•	Sealing Materia			
X Unconsolidated Formatio	л <u>П</u> в	Bedrock			uctor Pipe-Gravit med & Poured	* = =	or Pipe-Pump		
Total Well Depth From Ground	Surface (ft.) Cas	ing Diamete	r (in.)		onite Chips)	[X] Other (E:	xptain): <u>Gra</u>	vity	
	10			Sealing Ma	terials	4		<u> </u>	
Lower Drillhole Diameter (in.)	Cas	sing Depth (fl	L)	☐ Neat	Cement Grout	ļ		d Slurry (11 lb	
	2			_ ∐ Sand	-Cement (Concre	ete) Grout	Bentonite	-Sand Slumy	P 11
Was well annular space groute	ed? 🔲 Ye	s No	Unknown	Conc	rete		Bentonite	Chips	
				_For Monitor	_	lonitoring Well B			
If yes, to what depth (feet)?	Depth to	Water (feet)		,	nite Chips	L Ber	tonite - Cem	ent Grout	
			8	Grani	ılar Bentonite	∟ Ber	tonite - Sand	Sturry	51
5. Material Used To Fill Wel	l / Drillhole		1.000	From (ft.)	To (ft)	pounds			ž. Ž
Medium Bentonite Chips		CONTRACTOR CONTRACTOR OF	<u> </u>	Surface	10	15			
				II TO ME CHE INTERACTION		· · · · · · · · · · · · · · · · · · ·		1	
6. Comments					A Comment				The section
Geoprobe Boring G-12	and the second		. Region of law and	<u> : "Iver telle</u>	<u> </u>	70. 1 . 1 . 1 . 1 . 1 . 1 . 1 . 1 . 1 . 1	4.45.11.18.1.13.1.1.1.1.1.1.1.1.1.1.1.1.1.1.		111 172 1 1 1 1 1 1 1 1
Abandoned by Geiss Soil &	k Samples, LLC u	nder METC	O supervision						
7. Supervision of Work			a. y disarancios Elitar				DNR Use	Only	
Name of Person or Firm Doing	Filling & Sealing	License #	Date of F	iling & Seali	ng (mm/dd/vvvv) Date Receive	And the state of t	ted By	
Eric Dahl	2 : mg			5/15/201			1341 s. 1 3:	ingrafial s	
Street or Route		.1	Fr.	elephone Nu		Comments		Mario Mario	
	Street, Suite 3		l'a	608)781		Paris Strike			
City		tate ZIP	Code		Person Doing	Work	Dai	te Signed	
La Crosse	1	i i	4603-	6	- 1/m		6	71/17	

Well / Drillhole / Borehole Filling & Sealing Form 3300-005 (R 4/08) Page 1 of

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Route to:

☐ Verification Only o	of Fill an	nd Seal		=	r: nking Water ste Managem	☐ Watershed/Wastewater							pment
1. Well Location Inform	nation		e Lujianak	VENTS.		2. Facilit	2. Facility / Owner Information						
County	WI Unique		f Hic	ap#	Art contests a department of	Facility Nan	The section of the second	gara a sana cana.	na. Isanton. ep	Market St. 100 Co.	en inge kanal	22.3 mm in his	
DUNN	Removed	Well					Amberg	g Oil Tank	Farm				
		dinutas)	— L	ada /a		Facility ID (ID or PWS)						
Lattitude / Longitude (Degrada - 52.92	ees and N	i	vietnoa Co	008 (S	ee instruction	5)		6170	52490	_			
		N				License/Per	mit/Monitorin	g #		_			
<u>91</u> <u> </u>		·w]											
74174 SE 74 NE		Section	Towns	nip	Range 🗀 E	Original We		_					
or Gov't Lot #		27	28	N	13 X V	,		ssica Ambe	rg				
Well Street Address		The state of the s			1281 4	Present We							
511 1st Ave W								essica Amb	eg				• • • • • • • • • • • • • • • • • • • •
Well City, Village or Town			1	Well Z	IP Code	Mailing Add	ress of Prese		Ford Ros				
Menomonie			l	5475	51-	City of Pres	ant Owner	200	rora Ros		ZIP Cod		
Subdivision Name				Lot#	··········	City of Fies		. t. Dl.		State	5542		
			ŀ			7523 - NGS. (12.5)		ois Park		MN	1	0- 11-1-1-1	
Reason For Removal From	Service	Wi Uniqu	ie Well# (of Rep	lacement Wel	4. Pump,	Liner, Scree	in, Casing	i er seam	ng Marai	181	<u> 26.545</u>	7 <u>1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</u>
Sampling Complete						Pump an	d piping remo	ved?			Yes 📙		XI _{N/A}
3. Well / Drillhole / Bon	enole Int	ormatio	n i i i i	45.75		Liner(s) r	emoved?			<u> </u>	Yes ∐		x] _{N/A}
	Ori	ginal Cor	struction	Date (mm/dd/yyyy)	Screen re	moved?			اليا	Yes 🖳		x] _{N/A}
Monitoring Well .			5/15/2	2017		Casing le	ft in place?				Yes L	No I	x] _{N/A}
Water Well	If	a Well Co	nstruction	Repo	rt is available,	Was cas	ng cut off bel	ow surface	?		Yes	No [x] _{N/A}
X Borehole / Drillhole	ρl	ease atta	ch.			1	ng material ris			[X]	Yes 🔲	No [J _{N/A}
Construction Type:				_		i i	rial settle afte					No [$\exists_{N\!/\!A}$
Drilled D	iriven (Sai	ndpoint)		Dug		1	, was hole re				√es 🏻	No [X] _{N/A}
X Other (specify): Geo	probe					If bentoni	te chips were r from a know	used, were	they hydra	ated [x]		No [□N/A
Formation Type:						· · · · · · · · · · · · · · · · · · ·	thod of Placin			P-~4:	168 6	110 -	13//
F 4	. 11	F	10-4				ctor Pipe-Gra	· ,	onductor F	ine-Pumo	ed		
X Unconsolidated Form		ال ا	Bedrock		21. 3	Scree	ned & Poured		ther (Expla				
Total Well Depth From Gro	uno Suna 10	ice (π.) L	asing Ula	meter	(in.)		nite Chips)		niet (rybis	III)			
Lower Drillhole Diameter (ii			asing Dep	wh (#)	1	Sealing Mat	enais Cement Grout		П	Clay-Sand	Charact	11 lh h	al uti
FOMEL DIREIOIC DIGITICIC: (II	2	ľ	pan A net	2011 (4¢.)	,	1 =	Cement (Conc	roto) Grout		Bentonite-			
The state of the s				7			•	actol Order		Bentonite		,	
Was well annular space gro	outed?		∕es ∟	l No	Unknow	1	ng Wells and	Monitorina	-,				
If yes, to what depth (feet)?	>	Depth	lo Water (feet)		F = 4	nite Chips		-	ite - Ceme			
					8		ar Bentonite	Ī	Benton				
5. Material Used To Fill V	Vair / ryell	III.AIA				From (ft.)	To (fL)	Ea.					······································
The state of the s	eng water	IIIVAS		. d DAG.ki		35.100 (322)		pot	ınds			······································	
Medium Bentonite Chips	S					Surface	10		15				
·	·						 						
<u> </u>						Antos Erriciae de nos		radio de la Periodo de la Peri	4.010040000000	Cass to differen	no andre i	Critical Series	etty tip, togge . y
8. Comments			<u> </u>					Saidtais		รู้ใหม่ และเรื่อ	Pože Dato)		
Geoprobe Boring G-13 Abandoned by Geiss So	il & Samr	sies LLC	under M	ETCO	supervision								
7. Supervision of Work		nea, bbc	The Case		, super rision				Stanio di Grandia	NR Use	ALL D	4 1 ¥ 1 400	454(EE)
Name of Person or Firm Do		- 9 Coolie	s linne	ر المرابق الماسية	halad	-illing & Sealin	a (madddhna	on Data Pa	2.14.707.4		ed By		
Eric Dahl	ភពសិ ៤ព <u>អ</u> ាវិ	, or oesili	in Figsig	¢#	Pate Of	-ming & Seann 5/15/2017	,	1) Palare		, inch	PH PY		
Street or Route			_1			Felephone Nur		Comme	nis	4, # 14935 1,731040 11940	e continu		
	ette Street	. Suite 3				(608) 781-		anti de Farance					
City		, ~	State	ZIP C	ode		Person Dojn	a Work	en 1789998FSA	Date	e-Signed	ينه الروحة بعار	a hetá 4.0
La Crosse			WI		603-	E	1/2			Γδ	7771	7	
Manual II.			<u> </u>	<u> </u>			- p	<u></u>			/		

Well / Drillhole / Borehole Filling & Sealing Form 3300-005 (R 4/08) Page 1 of

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Route to:

☐ Verification Only o	of Fill and	Seal		==	g Water Managemei	Watershed/Wastewater [X] Remediation/Redevelopment						
1. Well Location Inform	nation		ata inst	Pinta Pi		2. Facility	/ Owner Inf	ormation	Baning to the	recise godin	Sagar Sur	
	WI Unique V		Hic	ap#		Facility Nam	,,	W. V. 1990 C. 1994 C. 1975 C. 1975	and a series)		
DUNN	Removed We	eli					Amberg	Oil Tank Farm				
Lattitude / Longitude (Degr	ees and Min	utes) M	lethod Co	nda Jega i	netructions	Facility ID (F	ID or PWS)		· · · · · · · · · · · · · · · · · · ·			
44 • 52.92	COS DUO (Allifo	'N	150100	ond (see)	(MILOUUI ID			617062490	··			
		٠,				License/Per	mit/Monitoring	#				
91 - 56.1		'W										
14/4 SE 14 NE) Sec	tion	Townsi	nip Ran	90 TE	Original We					•	
or Gov't Lot #		27	28	N 13	x w	Present Wel		sica Amberg				
Well Street Address						Present vve		ssica Ambeg				
511 1st Ave W						Mailing Add	ress of Preser			······································		
Well City, Village or Town				Well ZIP (Code	Triaining Acco	1000 011 (0.001	300 Ford	Road #7			
Menomonie				54751-		City of Prese	ent Owner	5001014	State	ZIP Code	··	
Subdivision Name				Lot#		751.5 01 1 100.		is Park	MN	55426-		
						4 Dome I	- Colored Colo	n, Casing & Se				
Reason For Removal From	Service M	/I Unique	e Well#	of Replace	ment Well	A CAMPINE	mindil Acida	u, casing a ve			[w]	
Sampling Complete		-				Pump and	d piping remov	ved?		Yes 📙 No		
3. Well / Drillhole / Bor	ehole Infon	mation		NI Section 1		Liner(s) n	emoved?			Yes ∐No	4 =	
Non-Sendan Society	Origin	al Cons		Date (mm	/dd/yÿyy)	Screen re	moved?		<u></u>	Yes L		
Monitoring Well			5/15/2	2017		Casing le	ft in place?			Yes L No	$[x]_{N/A}$	
Water Well				Report is	available,	Was casi	ng cut off belo	w surface?		Yes No	X N/A	
X Borehole / Drillhole	pleas	se attaci	1.,			Did sealir	ig material rise	e to surface?	[X]	Yes 🗆 No		
Construction Type:			_	٦.		Did mater	rial settle after	24 hours?		Yes [X] No	□N/A	
DrilledC	iriven (Sandp	ioint)		Dug			, was hole reto			Yes 🗆 No	$[X]_{N/A}$	
X Other (specify): Ge	oprobe					If bentonii	e chips were L	ised, were they hy i safe source?	rdrated [x]	Yes DNO		
Formation Type:								g Sealing Materia		100 00011	1317	
X Unconsolidated Form	ation	П	Bedrock				ctor Pipe-Grav	······································	x Pipe-Pump	ed		
Total Well Depth From Gro		(A) IC:		motor fin '	· · · · · · · · · · · · · · · · · · ·	Screen	ed & Poured	[x] Other (Ex				
rotat vveii Deptit Front Gro	10	(ir) Ca	ising Ula	meter (m.,	,	(Bento Sealing Mate	nite Chips)		P14311)			
Lower Drillhole Diameter (i	CONTRACTOR OF STREET	- h	sing Dep	oth (ft)		وسننتز ا	ement Grout	Г	Clay-San	i Slurry (11 l	thu tent d	
LONGI DIMINOR DIBINOR (2	٦	ionig Dep	our (ic)			Sement (Concr	reto) Groud		-Sand Slurry		
<u></u>	·			1 -		Concre	•	(C) (C) (C) (C) (C) (C) (C) (C) (C) (C)	Bentonite			
Was well annular space gr	outed?	[] Y	es L	No L	Unknown	·	_	donitoring Well Bo		•		
If yes, to what depth (feet)?	?	Depth to	Water (feet)	· · · · · · · · · · · · · · · · · · ·	[X] Benton			tonite - Ceme			
	j					Granul	ar Bentonite	Ben	tonite - Sand	Sturry		
5. Material Used To Fill V	Walt) Tallika		augh sandi augh eo sa	was to be the second	ent Marie Committee	From (ft.)	To (ft.)				**************************************	
Particle (1977) promises entrant interfacement et et fil	Benk a nestration					- A. M. S. S. S. S. S. S. S. S. S. S. S. S. S.	*### 1 A 4 A 4 A 4 A 4 A 4 A 4 A 4 A 4 A 4 A	pounds			<u></u>	
Medium Bentonite Chip	S					Surface	10	15	 	<u> </u>		
·		<u> </u>	 			ļ						
The state of the s		SECURE WAS			1 10 house 2012 4	No. 12. 1 of 10.000 1988		entantes (No. 1885) (2000)	148.k - 1771 (128.6)		Yan barne shensa	
6. Comments									atrologija i	Karley I	3,000	
Geoprobe Boring G-14 Abandoned by Geiss So	il & Samplac	. HC.	ındar Mi	FTCO eur	sorvicion							
		, DDC I	macr m	or co sup	JCI 11310II	Services Transfer	The second second second second second second second second second second second second second second second s			March 13.	C., at 1387	
7. Supervision of Work Name of Person or Firm Do		Con!	laces	o#	Data of F	lling & Coolin	1 (mm/dalaas	0 2000 2000	DNR:Use			
Eric Dahl	ភាសិ Limiភិ <u>ទ</u>	oeamig	Licens	ç ₩	Pars of hi	nng & Seann 5/15/2017		/) Date Received	Not	ed By		
Street or Route		· ····································	<u> </u>			elephone Num		Comments	entis et l e gis.	erendariikk <u>k.</u> Historia	11009x1613 7/4	
	ette Street, Si	uite 3			,	608) 781-8						
City			State	ZIP Code			Person Boing	Work	net.	e Signed	+22 14 F-15	
La Crosse	4	ſ	WI	54603-			1/2_		6	/[7[7]		
						The state of the s				T		

Well / Drillhole / Borehole Filling & Sealing Form 3300-005 (R 4/08) Page 1 or

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Route to:

■ Verification Only of Fill and Seal ■ Drinking Water ■ Waste Management ■ Waste Management				ent	Watershed/Wa	slewater	[x	Remedi	ation/Re	develo	pment	
1. Well Location Information	m en en	NE PAR			2. Facilit	y / Owner Info	nottem			i Augal		
	nique Weil #	of H	licap#		Facility Nar	ne						T. Marie
DUNN Kem	oved Well	[Oil Tank Fa	rm				
Lattitude / Longitude (Degrees	and Minutes)	Method	Code (s	ee instruction	Facility ID (FID or PWS)						
44 • 52.92	'N	1	- J	,55 (101100001			617062	490				
91 • 56.1					License/Pe	rmit/Monitoring	#					
					Original We	ll Owner					 -	
1/4 SE 1/4 NE	Section	Town		Range			ica Amberg					
or Gov't Lot #	27	28	N	13 x	V Present We	II Owner						 -
Well Street Address						Jes	sica Ambeg					
511 1st Ave W	z		4.675.11.5	WD Condo	Mailing Add	ress of Present	l Owner					
Well City, Village or Town			1	(IP Code			300 F	ord Ro	ad #7			
Menomonie Subdivision Name			Lot #	51-	City of Pres	ent Owner			State	ZIP Co	de	
SOUNDING HARRE			F-01.**			St Loi	s Park	· · · · · · · · · · · · · · · · · · ·	MN	554	26-	
Reason For Removal From Ser	vice Willin	que Well (of Rec	lacement We	4, Pump,	Liner, Screen	i, Casing &	k Seali	ng Mater	ial 🔣		
Sampling Complete					J	d piping remov	ed?			es [J _{No}	[x] _{N/A}
3. Well / Drillhole / Borehol	e informati	00		n Halling (see	- Table 1	removed?			-	res [$[x]_{N/A}$
	substitution of the reservoir such	*** 1941 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	n Date i	mm/dd/yyyy)	1.70	emoved?				res E		$[x]_{NA}$
Monitoring Well	jo,,garan o		/2017	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	j.	ft in place?			f1	res E		[x] _{N/A}
Water Well	If a Well (If a Well Construction Report is available,				ing cut off belov	u eudace?			res L		[x] _{N/A}
[X] Borehole / Drillhole	please at		iii escho	rt is arendore,		ng cat on belov ng material rise		,	[x]	/=s] _{No}	D _{N/A}
Construction Type:				······································	1	rial settle after :					No	□ _{N/A}
	ı (Sandpolnt)	[Dug		If ye	s, was hole reto	pped?	ev hvdra		res 🗀		XI _{N/A}
X Other (specify): Geopro	i)e					te chips were us ir from a known			[x]	/es L	No	LN/A
Formation Type:	_				I —	ethod of Placing	·					
[X] Unconsolidated Formation		Bedroo	.k			ictor Pipe-Gravi ned & Poured			. ,			
Total Well Depth From Ground	Surface (ft.) 9	Casing D	iameter	(in.)	(Bente Sealing Mat	nite Chips)	[A] Othe	er (Expla	in): <u>Grav</u>	ity		
Lower Drillhole Diameter (in.)	2	Casing D	epth (ft.)	Neat	Cement Grout Cement (Concre	ete) Grout		Clay-Sand Bentonite			
Was well annular space grouter	i? [Yes [⊒No	Unknow	Concr	ete ing Wells and M	onitorina W		Bentonite			
If yes, to what depth (feet)?	Dept	to Water	(feet)		[X] Bento	•		Benton	ite - Ceme ite - Sand	nt Grout	ı	
5. Material Used To Fill Well	Drillhole	1638250 (671	구시(주년) 2 기년 :		From (ft.)	To (ft)	poun		200, 200			
Medium Bentonite Chips		<u> </u>	directive.	<u> </u>	Surface	9	<u> </u>	13.5	~·····			
	` `							(3.5				
6. Comments								.19.1 194 201.111				are follows of
Geoprobe Boring G-15 Abandoned by Geiss Soil &	Samples, LL	C under N	METCO) supervision								
7. Supervision of Work		al-gréi						D	NR Use	Only		
Name of Person or Firm Doing	Filling & Sea	ing Licer	1se #	Date of		g (mm/dd/yyyy)	Date Rece	lived	Note	ed By		
Eric Dahl					5/15/201							18530 - 161
Street or Route					Telephone Nu		Comment					
709 Gillette S	treet, Suite 3				(608) 781-						Min.	
City La Crosse		State WI	ZIP C 54	ode 603-	Signature o	Person-Doing	Work		Date 0	Signed	7	

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

Well / Drillhole / Borehole Filling & Sealing Form 3300-005 (R 4/08) Page 1 of

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☐ Verification Only of F	ill and Seal		rinking Water		Watershed/Wa	astewater	[x]Remedi	ation/Redeve	elopment
		_ L w	aste Manageme	nt	Other:				
1. Well Location informati	on	Hant Dil		2. Facility	/ Owner Inf	omnation	eis il er eite	Ski-s V	
	Unique Well # of noved Well	Hicap #		Facility Nam	e				
DUNN	noved vven	_ [Oil Tank Farm			
Lattitude / Longitude (Degrees	and Minutes) Meth	nod Code (see instructions	Facility ID (f	ID or PWS)	<==0<= 100			
44 52.92	'N		,	·	14 84 8	617062490			
91 . 56.1 .	'W		· — — —		mit/Monitoring	I#			
14114 SE 14 NE	Section T	ownship	Range E	Original We					
or Gov't Lot#	27	28 N	13 X W	D1146-		sica Amberg	,		
Well Street Address				Present We		ssica Ambeg			
511 1st Ave W				Mailing Add	ress of Presen	<u>~</u>		· · · · · · · · · · · · · · · · · · ·	
Well City, Village or Town	HARLING THE THE THE THE THE THE THE THE THE THE	Well	ZIP Code	rialining Aud	1000 Of 1 10001	300 Ford	Road #7		
Menomonie		54	751	City of Pres	ent Owner	500 (010)	State	ZIP Code	
Subdivision Name		Lot#		0.,, 0.7.00		is Park	MN	55426-	
				4 Pump	THE RESERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED I	n, Casing & Se			
Reason For Removal From Se	rvice Wi Unique V	/ell # of Re	placement Well						<u>han sita s</u> Tv1
Sampling Complete				Pump an	d piping remov	ved?		Yes HNo	
3. Well / Drillhole / Boreho				Liner(s) r	emoved?			Yes ⊣No	
The street was	Original Constru			Screen re	moved?		<u></u>	Yes No	
Monitoring Well	5	/15/2017		Casing le	ft in place?	,		Yes L No	
Water Well	If a Well Constr	uction Rep	ort is available,	Was casi	ng cut off belo	w surface?		Yes 🗀 No	X N/A
X Barehole / Drillhole	please attach.			Did sealir	ng material rise	e to surface?		Yes No	∟N/A
Construction Type:		-		Did mate	rial settle after	24 hours?		Yes X No	
Drilled Drive	n (Sandpoint)	Dug	9		, was hole reto			Yes 🗆 No	$[X]_{N/A}$
X Other (specify): Geopre	obe			If bentoni	te chips were u r from a known	ised, were they hy i safe source?	drated [x]	Yes \square_{No}	□ _{N/A}
Formation Type:		···				g Sealing Material			1,1//
[X] Unconsolidated Formation	. П.,	drock		Condu	ctor Pipe-Grav	ity Conducto	r Pipe-Pump	ed	
Total Well Depth From Ground			e fin \	- Screen	ed & Poured	[x] Other (Ex	ptaint: Gra	vity	
totat Avelt Debitt Ltotti Otoriio	10	iğ Diamete	a (ar.)	Sealing Mate	nite Chips)				
Lower Drillhole Diameter (in.)	ales anno estado de la compania	g Depth (f	11		ement Grout	ſ	Clay-San	d Slumy (11 lt	thu lenke
COVER DIVINION DIGITICION (III.)	2	ig Deptii (i	c.,		Cement (Conc	rete) Grout		-Sand Slurry	•
		i T	П	T	=	, O.00 [Bentonite	•	
Was well annular space groute	ed? LYes	L_I No	Unknowr	1 1 2		nonitoring Well Bo		•	
If yes, to what depth (feet)?	Depth to V	ater (feet)		[X] Bentor	-		tonite - Ceme		
	j		8		ar Bentonile	☐ Ben	tonite - Sand	Słumy	
5. Material Used To Fill Well	/ Drillhola	o Augusta. GCC3 AAG	in contract the property of the second second second second second second second second second second second se	From (ft.)	To (ft.)	pounds	and the second second of the second	CONTROL DE COMPANIO	
Medium Bentonite Chips	<u> </u>	shedasi cadr	3.13.1830(C.868(C.1712)	Surface	10	15			
Medium Dentonite Cinps				Danacc	10	15			
	<u>-</u> -			 					
6. Comments							Marine de la companya de la companya de la companya de la companya de la companya de la companya de la company		
Geoprobe Boring G-16 Abandoned by Geiss Soil &	Samples, LLC und	ler METC	O supervision					- Annual Control	
7. Supervision of Work		Tylklant.		erent productivate. Nijerija djan distori			DNR Use	Only	2.5.2.2
Name of Person or Firm Doing	Filling & Sealing	icense#	Date of F	illing & Sealin	g (mm/dd/yyy)	/) Date Received	The second secon	ed By	01100011
Eric Dahl				5/15/2017					
Street or Route				elephone Nun	nber	Comments		etherman	14.40
	Street, Suite 3		,	(608) 781-		\$12.12.12.14.			
City	Sta	te ZIP	Code		Person Daing	Work	Dat	e, Signed	
La Crosse	. f v	VI 54	4603-	6	1/2		16	11/67	

Well / Drillhole / Borehole Filling & Sealing Form 3300-005 (R 4/08) Page 1 of

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☐ Verification Only of Fill	and Seal	i	=	o: nking Water iste Managem	ent	Watershed/Was	stewater	[x] R	emediat	ion/Redev	elopment	
1. Well Location Information					2. Facilit	y / Owner Info	rmation	3 29.2	v ogræse kandalæk			
	ique Well#	of H	icap#	1.007,71.22.11.201.00	Facility Nar		A position table representation	S and the commentary	2 . 4	that course, income		
DUNN Remo	ved Well	- 1			_	Amberg (Oil Tank Fa	ırm				
					Facility ID (FID or PWS)				***************************************		
Lattitude / Longitude (Degrees at 44 52.92	=	Method	Code (s	ee instruction	S)		617062	490				
	N				License/Per	mit/Monitoring	#				*****	
91 •56.1	·w				. [
%1% SE % NE	Section	Town	ship	Range E	Original We	il Owner						
or Gov't Lot #	27	28	N	13 X V			ca Amberg					
Well Street Address					Present We							
511 1st Ave W							ica Ambeg			· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
Well City, Village or Town			Well Z	IP Code	Mailing Add	lress of Present			_			
Menomonie			547				300 F	ord Road #		15.5.1		
Subdivision Name			Lot#		—City of Pres			Sta		IP Code		
					SAN PERSONAL NOR IN	St Loi		· · · · · · · · · · · · · · · · · · ·	IN	55426-		
Reason For Removal From Servi	ce Wi Unio	ue Well #	of Rep	tacement Wel	4. Pump,	Liner, Screen	, Casing	i Sealing	Materia	di		
Sampling Complete			. — _		Pump an	d piping remove	ed?		\square_{Ye}	s 🗆 No		
3. Well / Drillhole / Borehole	Informatio)n			Liner(s)	removed?			□Y€	s 🗆 No	[x] _{N/A}	
The second secon	margin of Alexander and		n Date (mm/dd/yyyy)	Screen n	emoved?			□Y€	s \square_{No}	$[x]_{N/A}$	
Monitoring Well	-	5/15/2017				eft in place?			\square_{Ye}	s 🗆 No	[x] _{N/A}	
Water Well	If a Well Construction Report is available,					ing cut off below	v surface?		ΠYε	s DNo	7-7	
X Borehole / Drillhole please attach.					1 .	ng material rise)	$[x]_{Ye}$			
Construction Type:					ŀ	rial settle after 2			□Y∈	f _w 1		
Oritled Driven	(Sandpoint)	Π	Dug		1 '	s, was hole reto			□Ye		[v]	
X Other (specify): Geoprob	e					ite chips were us ir from a known		gy hydraied				
						r from a known sethod of Placing			$[x]_{Ye}$	<u>No لـا s</u>	N/A	
Formation Type:	_	٦				actor Pipe-Gravit	g-mrig	ductor Pipe	Dumna	4		
X Unconsolidated Formation	<u> </u>	Bedroo				ned & Poured		er (Explain):				
Total Well Depth From Ground S	urface (ft.) (Casing D	iameter	(in.)	(Bento	onite Chips)	12-2 UIDE	er (Explain):	GIAVI	<u>y</u>		
9					Sealing Mat			FT				
Lower Drillhole Diameter (in.)	. 1	Casing D	epth (ft.)		Neat Cement Grout Clay-Sand Slurry (11 lb./gat. wt.)						
						Cement (Concre	te) Grout	Section 1		and Slumy		
Was well annular space grouted?	· L	Yes	No	Unknow	n L Concr	ยเต ing Wells and Mo	anitarina tA		tonite C	nips		
If yes, to what depth (feet)?	Depth	to Water	(feet)		[X] Benton	-	Jintoning VV	Bentonite -	•	Grant		
	·			8		lar Bentonite	H	Bentonite -				
	N. 4 C. S. D. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S. C. S				THE REAL PROPERTY.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			OBING O			
5. Material Used To Fill Well /	Jrillino16		t ence		From (ft.)	To (ft)	pour	ds	}			
Medium Bentonite Chips					Surface	9		13.5				
				<u> </u>		<u> </u>						
6. Comments	*****					Šels y Žil			17.74 July			
Geoprobe Boring G-17 Abandoned by Geiss Soil & S	amples, LLC	under N	AETCO	supervision								
7. Supervision of Work	a de la composición della composición della composición della composición della composición della composición della composición della composición della composición della composición della composición della composición della composición della composición della composición della composición della composición della composición della composición della composición della comp			Allendar Allendar			Charles	DNR	Use O	nlv		
Name of Person or Firm Doing Fi	lling & Seali	ng Licer	15e #	Date of	Filling & Sealin	g (mm/dd/yyyy)	Date Ren		Noted			
Eric Dahl		~ · · · ·			5/15/201	, , , , .		mistry in sell Nimeralia dese		1000 (5.1) 1000 (6.1)		
Street or Route		<u> </u>			Telephone Nur		Comment					
709 Gillette St	reet, Suite 3			İ	(608)781-		2 772257					
City	· · · · · · · · · · · · · · · · · · ·	State	ZIP C	ode		Ferson Doing	Vork	And the second of the	Date	Signed	_	
La Crosse		WI	54	603-	-	1/am			161	<u> 1/</u> 17		
					-	-						

Well / Drillhole / Borehole Filling & Sealing Form 3300-005 (R 4/08) Page 1 of

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Route to:

Verification Only o	f Fill and Seal		Drinking Water Waste Managem	Watershed/Wastewater [X] Remediation/Redevelopment Other:
1. Well Location Inform	ation	THE PROPERTY OF		2. Facility / Owner information
	VI Unique Well #	of Hic	ap#	Facility Name
DUNN .	Removed Well	1		Amberg Oil Tank Farm
Lattitude / Longitude (Degre	LeathuiM bne se	Method C	nda /ega inetruction	Facility ID (FID or PWS)
44 • 52.92	=	Menior C	ana (see uwuncuu	617062490
				License/Permit/Monitoring #
<u>91</u> • <u>56.1</u> · _	, M	[<u> </u>		
14/14 SE 14 NE	Section	Townsl	nip Range 🗀 e	Original Well Owner
or Gov't Lot #	27	28	N 13 X V	Jessica Amberg
Well Street Address	<u> </u>			
511 1st Ave W				Jessica Ambeg
Well City, Village or Town	The state of the s		Well ZIP Code	Mailing Address of Present Owner
Menomonie		Ì	54751-	300 Ford Road #7
Subdivision Name			Lot#	— City of Present Owner State ZIP Code
		ļ		St Lois Park MN 55426-
Reason For Removal From	Service WI Unio	jue Well # (of Replacement Wel	
Sampling Complete				Pump and piping removed?
3. Well / Drillhole / Bore	hole information	on		Liner(s) removed?
	Original Co	nstruction	Date (mm/dd/yyyy)	Screen removed?
Monitoring Well	ļ	5/15/2		Casing left in place?
Water Well	if a Well C		Report is available,	Was casing cut off below surface?
[X] Borehole / Drillhole	please atta		, , , , , , , , , , , , , , , , , , , ,	Did sealing material rise to surface?
Construction Type:				Did material settle after 24 hours?
Drilled Dr	lven (Sandpoint)		Dug	If yes, was hole relopped?
X Other (specify): Geo		خصبو		المراقع والم
			,	in benionale crips were used, were unly nyorated with water from a known safe source? Required Method of Placing Sealing Material
Formation Type:	-	-		ا مسو "
[X] Unconsolidated Forma		Bedrock		Conductor Pipe-Gravity Conductor Pipe-Pumped Screened & Poured X Cohor (Streeting) Gravity
Total Well Depth From Grou	ind Surface (ft.)	Casing Dia	meter (in.)	Screened & Poured (Bentonite Chips) (X) Other (Explain): Gravity
	9		<u> </u>	Sealing Materials
Lower Dritthole Diameter (in	.) 2	Casing Dep	oth (ft.)	Neat Cement Grout Clay-Sand Slurry (11 lb./gal.
· · · · · · · · · · · · · · · · · · ·				Sand-Cement (Concrete) Grout Bentonite-Sand Slurry " "
Was well annular space gro	uted?	Yes	No Unknow	Bentonite Chips
If yes, to what depth (feet)?	Denth	to Water (er Monitoring Wells and Monitoring Well Borenoles Only:
ii yes, to miss achiii (icer):	(Sepa	to interest	·	X Bentonite Chips Bentonite - Cement Grout
The war to see the second seco	(The angree in the second in the	50 - At 1988 W	8	Granular Bentonite Bentonite - Sand Slurry
5. Material Used To Fill W	ell / Drillhole			From (ft.) To (ft.) pounds
Medium Bentonite Chips			· · · · · · · · · · · · · · · · · · ·	Surface 9 13.5
6. Comments				
Geoprobe Boring G-18 Abandoned by Geiss Soi	l & Samples, LLO	C under M	ETCO supervision	
7. Supervision of Work				DNR Use Only
Name of Person or Firm Do	ing Filling & Seal	ng Licens	e# Date of	illing & Sealing (mm/dd/yyyy) Datë Received Noted By
Eric Dahl	-		1	5/15/2017
Street or Route				Telephone Number Comments
709 Gillet	te Street, Suite 3			(608) 781-8879
City		State	ZIP Code	Signature of Person Doing Work Date Signed
La Crosse		WI	54603-	E-Va 6/1/7

Site Investigation Report - METCO Amberg Oil Tank Farm

APPENDIX D/ WASTE DISPOSAL DOCUMENTATION

Site Investigation Report - METCO Amberg Oil Tank Farm Investigative Wastes

No investigative waste was generated as part of this site investigation.

Site Investigation Report - METCO Amberg Oil Tank Farm

APPENDIX E/ OTHER DOCUMENTATION

LUST and Petroleum Analytical and QA Guidence July 1993 Revision

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	GRO²	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	GRO²	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	DRO³	Free Liquids ⁶ DRO Benzene ⁷ Haz. Waste Deter. ⁸	DRO³ PVOC PAH ¹³⁻¹⁴
Crude Oil; Lubricating Oils; No. 6 Fuel Oil	DRO³	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	DRO³	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

		A I EN SAIVIF LLS	I
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 H₂SO₄	28 days
BOD, cBOD SM5210B	500 ml HDPE	4°C	48 hrs.
COD EPA 410.4	500 ml HDPE	4°C, pH<2 with H₂SO₄	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 HNO₃	180 days
TKN EPA 351.2	1 Liter HDPE	4°C, pH<2 with H ₂ SO 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 H₂SO 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 H₂SO ₄	28 days
Organic Carbon SW846 9060/ EPA 415.1	40 ml Glass	4°C, pH<2 with H₂SO₄ or HCL	28 days
Phenol, Total EPA 420.1	1 Liter Glass	4°C, pH<2 with H ₂ SO ₄	28 days
Phosphorus, Total EPA 365.3	250 mL HDPE	4°C, pH<2 with H ₂ SO 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 HNO₃	6 months
Mercury SW8467470/EPA 245.1	250 mL HDPE	4°C, pH<2 with HNO₃	28 days
ORGANICS		ting and the second of the sec	
	1 Liter amber glass,	A CONTROL OF THE CONT	
Semivolatiles SW846 8270C	collect 2 for one of the	4°C	7 days extr.
25//// 5/4/// 5/10// 5/2/ 5/2	samples submitted .		40 days following extr
	1 Liter amber glass,	<u> </u>	
PAH SW846 8270C	collect 2 for one of the	4°C	7 days extr. 40 days following extr
	samples submitted		40 days following extr
	1 Liter amber glass,		7 days over
PCB SW846 8082	collect 2 for one of the	4°C	7 days extr. 40 days following extr
	samples submitted.		40 days following cxt
DRO, Modified DNR Sep 95	1 Liter amber glass with	4°C, 5 mL 50% HCI	7 days extr.
	Teflon lined cap		40 days following extr
VOC'S	(3) 40 mL glass vials with	4°C, 0.5 mL 50% HCl,	14 days
SW846 8260B/EPA524.2	Teflon lined septum caps	No Headspace	14 0030
GRO/VOC	(4) 40 mL glass vials with	4°C, 0.5 mL 50% HCl prior to adding	14 days
51.07.00	Teflon lined septum caps	sample to jar	,.
GRO, Modified DNR Sep 95	(2) 40 mL glass vials with	4°C, 0.5 mL 50% HCl prior to adding	14 days
Orto, modinos Drivi dopos	Teflon lined septum caps	sample to jar	
GRO/PVOC	(2) 40 mL glass vials with	4°C, 0.5 mL 50% HCl prior to adding	14 days
	Teflon lined septum caps	sample to jar	
PVOC	(2) 40 mL glass vials with	4°C, 0.5 mL 50% HCl prior to adding	14 days
	Teflon lined septum caps	sample to jar	<u> </u>

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

	Original		Holding Tim	es from Date	and Time of Co	ollection
Test	Sample Container	Preserved	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				i de la companya de la companya de la companya de la companya de la companya de la companya de la companya de La companya de l		
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/cgf-bis/chemicals/cs/_search_(Chicago as climatic zone).

Not-to-Exceed D-C RCL defaults to 100,000 mg/kg if web-calculator result or Csat exceeds 10% by weight (the ceiling limit concentration defined in EPA RSL Users Guide).

Basis: ca = cancer, no = non-cancer; Csat = soit saturation concentration; ceifing = 10%.

Background threshold values are non-outlier trace element maximum levels in Wisconsin surface soils from the USGS Report at: https://pubb.usgs.gov/sis/2011/5/2/2.

1. Enter data in yelfow 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 924.
A.7 Other

Comparison / Hazard Index / Cumulative Cancer Risk

Site Name:

Sample ID:

					<i></i>					Target CR used: 1.00E-06
		NG RCL	CRCL	Not-To- Exceed D-C RCL	Basis	Background Threshold INPUT Sit Vélue (mg/kg) Data (mg/k		Flag E = Individual Exceedancel	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Contemport Benzene	CAS Number 71-43-2	(mg/kg) ,106.000	(mg/kg) ,1.600	(mg/kg) ,1.600		value (mg/kg) Data (mg/k	·9)	LACCECIANCE:	inom cata	i moni baka
Ethylbenzene	100-41-4	4,080.000	,8.020	,8.020	ca					
Toluene	108-88-3			,818.000	Csat	<u> </u>				
Xylenes	1330-20-7	,818,000		,260.000 ,63.800	Csat				Haralia Tarak	
Methyl tert-Butyl Ether (MTBE) Dichloroethane, 1,2-	107-06-2	22,100.000 ,43.700	,63.800 ,.652	.652	ca ca			Linner Joven		
Dibromoethane, 1,2-	106-93-4	,100.000	,.050	,.050	са			i aana comunica o o omice macania alai apara pelesiji kiskaliji kalema		A
Trichloroelhylene	79-01-6	,5.680	,1.300	,1.300	ca					
Tetrachioroethylene	127-18-4	,109.000	,33.000	,33,000	ca	!				
Vinyl Chloride	75-01-4	,89.200 .320.000	067	,067 ,320.000	ca nc		:			بالشيب بالزار والمشاري والمشار
Dichloroethylene, 1,1- Dichloroethylene, 1,2-trans-	75-35-4 156-60-5			1,560.000	ne					
Dichloroethylene, 1,2-cis-	156-59-2	.156.000		,156.000	nc	:			1	144. 4 3. 60. 4 1. 61.
Trichloroethane, 1,1,1-		11,500.000	*	,640.000	Csat					معمونية والموادة والمساد والمسادية
Carbon Tetrachloride	56-23-5	131.000	916	.916	ca					
Trimethylbenzene, 1,2,4-	95-63-6			,219.000 ,182.000	Csat Csat				ta militaria	
Trimethylbenzene, 1,3,5- Naphthalene	108-67-8 91-20-3	,339.000	,5.520	,5.520	Ga					
Benzo[a]pyrene	50-32-8	17.800	.115	,115	ca					
Acenaphthene	83-32-9	3,590.000	-	3,590.000	nc					
Acenaphthylene	208-96-8		:							
Anthracene	120-12-7			17,900.000	nc	<u>!</u>		I d N Land Comment		
Benz[a]anthracene Benzo(j)fluoranthene	56-55-3 205-82-3		,1.140	.1.140 .424	ca ca		:		ويعارفن ومواجعات	
Benzo[b]fluoranthene	205-99-2		,1.150	1.150	ca	<u>:</u>				
Benzo(g.h.i]perylene	191-24-2	- :	-				,	(,)	I	
Benzo[k]fluoranthene	207-08-9		,11.500	,11.500	ca	:				
Chrysene	218-01-9		,115.000 ,115	.115.000 .115	ca	:				يدارق الباسيد سياسلك
Dibenz[a,h]anthracene	53-70-3 192-65-4		,.042	,.042	ca	:				
Dibenzo(a,e)pyrens Dimethylbenz(a)anthracens, 7,12-	57-97-6		4.59E-04	4.59E-04	ca	1				
Fluoranihene	206-44-0	2,390.000		2,390.000	пс					
Fluorene	86-73-7			2,390.000	пс			اب ــــــــــــــــــــــــــــــــــــ		<u> </u>
Indeno[1,2,3-cd]pyrene	193-39-5		.1.150	,1.150	ca	<u> </u>		er agricultural arch		
Methylnaphthalene, 1-	90-12-0 91-57-6		17.600	,17.600 ,239.000	ca nc				l-i	
Methylnaphthalene, 2- Nitropyrene, 4-	57835-92-4		424	.424	ca	:			Martin de la composición della composición della composición della composición della composición della composición della composición della composición della composición della composición della composición della composición della composición della composición della composición della composición della composición della composición della composición della composición della	
Perylene	198-55-0		•							
Phenanthrene	85-01-8		•							
Pyrene	129-00-0			1,790.000	nc			an terasi ili		
Lead and Compounds	7439-92-1	,400.000		,400.000 ,342.000	nc	,52.	-			
Bromobenzene Bromodichloromethane	108-86-1 75-27-4	1,560.000	418	,342.000	ca .	1				
Bromoform	75-25-2	1,560.000	.25.400	,25.400	ca					
Butylbenzene, n-	104-51-8	3,910.000	-	.108.000	Csat		;		سننج دستنس	
Butylbenzene, sec-	135-98-8	7,820.000		.145.000	Csat	1		jaran jarah dari dari	بنا الصاهب الزير	
Butylbenzene, tert- Chlorobenzene	98-06-6 108-90-7	7,820.000		,183.000 ,370.000	Csat nc					
Chloroform	67-66-3	259.000	.454	.454	ca					The first of the second
Chloromethane	74-87-3	,159.000		,159.000	nc					
Chicrotoluene, o-	95-49-8	1,560.000		,907.000	Csal	:				
Chlorololuene, p-	106-43-4	1,560.000		253.000	Csat	:	-			المستنب المستوانية والمراجع والمراجع والمراجع والمراجع
Dibromo-3-chloropropane, 1,2-	96-12-8	5.960	.008 ,8.280	.008	ca	:				
Dibromochioromethane Dichlorobenzene, 1,2-	124-48-1 95-50-1	1,560.000 2,350.000		,376.000	Csat		 :			
Dichlorobenzene, 1,3-	541-73-1			,297.000	Csat			átány meszálejenedi		
Dichlorobenzene, 1,4-	106-46-7	3,810.000	,3.740	3.740	ca		- 3	1,441 16 51 141		
Dichlorodifluoromethane	75-71-8	,126.000		,126.000	nc				ويتقريب لويغهليك	
Dichloroethane, 1,1-		15,600.000	,5.060	.5.060	Ca			والمائنة المنتد الثاث		
Dichloropropane, 1,2- Dichloropropane, 1,3-	78-87-5 142-28-9	,22,600 1,560.000	,406	.406 1,490.000	ca Csat			بالمراب والمالية		
Dichloropropane, 2,2-	594-20-7		<u> </u>	,191.000	Csat		:	100 100 100 100 100 100 100 100 100 100		
Diisopropyi Ether	108-20-3	3,220.000		2,260.000	Csat					deiej entaikied valiktiva inganis
Hexachlorobutadiene	87-68-3	,78.200	1.630	1.630	ca		4			
Isopropyltoluene, p-	99-87-6		64.000	,162.000	Csat	! <u> </u>				oran en e Soman Silvilla Orani el cambo de el com
Methylene Chloride Telrachloroethane, 1,1,1,2-	75-09-2 630-20-6	,379.000 2,350.000	,61.800 ,2.780	,61.800 ,2.780	ca ca		2			
Tetrachlorgethane, 1,1,2,2-	79-34-5	1,560.000	.810	,.810	ça		*			
Trichlorobenzene, 1,2,3-	87-61-6	,62.600		,62.600	nc					
Trichlorobenzene, 1,2,4-	120-82-1	,80.800	,24.000	,24.000	ca		1,			P.E.S. T. H. S. Pag et A
Trichloroethane, 1,1,2-	79-00-5	2.160	,1.590	1.590	ca Cest		i.			وي والموارة والمسابق المسابقة والمستدورة
Trichlorofluoromethane	75-69-4	23,500.000	·	1,230.000	Csat					
Test1Chem(DRO) Test2Chem(GRO) Test3Chem(TPH)	Wis. DRO Wis. GRO TPH									
Type BRRTS No. Here (If Known)			E	xceedance Cou	nt / Hazar	d Index / Cumulative Cance	er Risk:	0	0.00E+00	0.00E+00
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						ata must meet all these or		Exceedance Count = 0	HI ≤ 1.0	Cumulative CR ≤ 1e-05
All the second s	19-15			Bottom-Line:			Soil Da	sta Entry Neede	di	

		Fed MCL (ug/l)	NR 140 ES	RCL-gw	Use 2, or input the calculated	INPUT NUMERIC Site Flag E =	Type BRRTS No. Here (If Known).
NR140 Substance	NR 140 CAS	(If Red, MCL>ES)	(ug/l)	(mg/kg) DF=1	site-specific DF	Data Max Individual (mg/kg) Exceedance!	Assess groundwater
Acetochlor	34256-82-1		7	5.58E-03	1.12E-02	12 1000 1 1000 1000	
Acetone	67-64-1	-	9000	1.85E+00	3.69E+00		
Alachlor	15972-60-8	2	2	1.65E-03	3.30E-03	i iin	
Aldicarb	116-06-3	3	10	2.49E-03	4.99 E -03		
Aluminum	7429-90-5		200	3.01E+02	6.01E+02		
Antimony	7440-36-0	6	6	2.71E-01	5.42E-01		
Anthracene	120-12-7	-	3000	9.84E+01	1.97E+02		%
Arsenic	7440-38-2		10	2.92E-01	5.84E-01	ing the second of the second o	80 81 82 80 80 80
Atrazine, total chlorinated residues	1912-24-9	3	3	1.95E-03	3.90E-03		
Barium	7440-39-3	2000	2000	8.24E+01	1.65E+02		
Bentazon	25057-89-0	-	300	6.59E-02	1.32E-01		
Benzene	71-43-2		5	2.56E-03	5.12E-03	Coll. (#Silvater American) Coll. (* 1919 - 1919)	
Benzo(a)pyrene (PAH)	50-32-8	0.2	0.2	2.35E-01	4.70E-01		-
Benzo(b)fluoranthene (PAH)	205-99-2		0.2	2.40E-01	4.80E-01		
Beryllium	7440-41-7	4	1000	3.16E+00	6.32E+00 6.40E+00	Haller in the Charles	<u>.</u>
Boron Bromodichloromethane (THM)	7440-42-8 75-27-4	80	0,6	3.20E+00 1.63E-04	3.26E-04	Established (1987)	
	75-27-4 75-25-2	80	4.4	1.03E-04 1.17E-03	2.33E-03		
Bromoform (THM)	74-83-9	-	10	2.53E-03	5.06E-03	ii Sir Marka ay na dhealan a shekara ay na dhealan a shekara a shekara a shekara a shekara a shekara a shekara Qaranda waxan gara ay na shekara a shekara a shekara a shekara a shekara a shekara a shekara a shekara a shekar	•
Bromomethane Butylate	2008-41-5	-	400	3.88E-01	7.76E-01		
Cadmium	7440-43-9	5	5	3.76E-01	7.52E-01	Salin (1 to (Alia) Alia (Ali	•
Carbaryl	63-25-2	-	40	3.64E-02	7.27E-02	energia Augusta	
Carbofuran	1563-66-2	40	40	1.56E-02	3.12E-02	Her Australia	
Carbon disulfide	75-15-0	-	1000	2.97E-01	5.93E-01	gogary saint makest a	
Carbon tetrachloride	56-23-5	5	5	1.94E-03	3.88E-03		
Chloramben	133-90-4	-	150	3.63E-02	7.27E-02	Facility of States and States	
Chlorodifluoromethane	75-45-6	-	7000	2.89E+00	5.79E+00		
Chloroethane	75-00-3	-	400	1.13E-01	2.27E-01		
Chloroform (THM)	67-66-3	80	6	1.67E-03	3.33E-03	i filosofi, francis francis (in constitution of the constitution o	
Chlorpyrifos	2921-88-2	-	2	2.95E-02	5.90E-02		
Chloromethane	74-87-3	- '	30	7.76E-03	1.55E-02		
Chromium (total)	7440-47-3	100	100	1.80E+05	3.60E+05		Re-assess if Cr-VI present
Chrysene (PAH)	218-01-9	•	0.2	7.25E-02	1.45E-01		
Cobalt	7440-48-4	-	40	1.81E+00	3.62E+00	######################################	
Copper	7440-50-8	1300	1300	4.58E+01	9.16E+01		
Cyanazine	21725-46-2	-	1	4.68E-04	9.37E-04	MAN AND AND THE STATE OF THE ST	
Cyanide, free	57-12-5	200	200	2.02E+00	4.04E+00		
Dacthal (DCPA)	1861-32-1	-	70 0.05	8.56E-02 1.41E-05	1.71E-01 2.82E-05		
1,2-Dibromoethane Dibromochloromethane (THM)	106-93-4 124-48-1	0.05 80	0.05 60	1.60E-02	3.20E-02	ngibera uni nun' ulitra karbulaga nu nulitra ataumpa nutu un nun digunan di ulitra gapa ulitra nun di unitra santa di unitra di unitra di unitra di unitra di unitra di unitra di unitra di unitra	
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	0.2	0.2	8,64E-05	1.73E-04	Anger Amerikan Perunakan Perunakan Anger Amerikan Perunakan Perunakan	
Dibutyl phthalate	84-74-2	· ·	1000	2.52E+00	5.04E+00	Handise the second of the seco	
Dicamba	1918-00-9	_	300	7.76E-02	1.55E-01	\$25.1.10 E.145.22	
1,2-Dichlorobenzene	95-50-1	600	600	5.84E-01	1.17E+00		
1,3-Dichlorobenzene	541-73-1	-	600	5.76E-01	1.15E+00		
1,4-Dichlorobenzene	106-46-7	75	75	7.20E-02	1.44E-01		
Dichlorodifluoromethane	75-71-8	_	1000	1.54E+00	3.08E+00		
1,1-Dichloroethane	75-34-3	-	850	2.42E-01	4.84E-01	TOTAL TOTAL	
1,2-Dichloroethane	107-06-2	5	5	1.42E-03	2,84E-03		
1.1-Dichloroethylene	75-35-4	7	7	2.51E-03	5.02E-03		
1,2-Dichloroethylene (cis)	156-59-2	70	70	2.06E-02	4.12E-02	**************************************	
1,2-Dichloroethylene (trans)	156-60-5	100	100	2.94E-02	5.88E-02	gag it and worder that	
2,4-Dichlorophenoxyacetic acid (2.4-D)	94-75-7	70	70	1.81E-02	3.62E-02		
1,2-Dichloropropane	78-87-5	5	5	1.66E-03	3.32E-03	1818.v. 1111.1111.11111.11111	
1,3-Dichloropropone (cis/trans) (Telone)	542-75-6	•	0.4	1.43E-04	2.85E-04		
Di (2-ethylhexyl) phthafate	117-81-7	6	6	1.44E+00	2,88E+00		
Dimethoate	60-51-5	-	2	4.51E-04	9.02E-04	The state of the s	
2.4-Dinitrotoluene	121-14-2	-	0.05	6.76E-05	1.35E-04		
2,6-Dinitrotoluene	606-20-2	-	0.05	6.88E-05	1.38E-04		
Dinitrotoluene, Total Residues	25321-14-6	•	0.05	6.89E-05	1.38E-04		
Dinoseb	88-85-7	7	7	6.15E-02	1.23E-01		
1,4-Dioxane (p-dioxane)	123-91-1	-	3	6.18E-04	1.24E-03		
Dioxin (2,3,7,8-TCDD)	1746-01-6	0	0	1.50E-05	3.00E-05	COMMENT OF COMMENT OF	
Endrin	72-20-8	2	2	8.08E-02	1.62E-01	Martin plating is the state of	
EPTC	759-94-4	-	250	1.32E-01	2.64E-01	era a caracita	
Ethylbenzene	100-41-4	700	700	7.85E-01	1.57E+00	nyrnager (S.S.) ter eine gestellt. (S.S.) nyrer (s.), (e.g., och eine stellt (s.S.) (s.S.) (e.g., och eine stellt (s.S.)	
Ethyl Ether (Diethyl Ether)	60-29-7	-	1000	2.24E-01	4.47E-01	ANALYSIS SANTO	
Ethylene glycol	107-21-1	-	14000	2.82E+00	5.64E+00	interplate in the second of th	
ETT Maria	206-44-0	-	400	4.44E+01	8.88E+01		
Fluoranthene Fluorene (PAH)	86-73-7		400	7.41E+00	1.48E+01	andates a training that continue	

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF >	2.00	INPUT NUMERIC Site Data Max (mg/kg)	Flag E = Individual Exceedance!
Fluoride	7782-41-4	4000	4000	6.01E+02		1.20E+03	_	
Fluorotrichloromethane	75-69-4	-	3490	2.23E+00		4.47E+00		
Formaldehyde	50-00-0	-	1000	2.02E-01		4.04E-01		
Heptachlor	76-44-8	0.4	0.4	3.31E-02		6.62E-02		
Heptachlor epoxide	1024-57-3	0.2	0.2	4.08E-03		8.16E-03		
Hexachlorobenzene	118-74-1	1	1	1.26E-02		2.52E-02		
n-Hexane	110-54-3	-	600	4.22E+00		8.44E+00		•
Lead	7439-92-1	15	15	1.35E+01		2.70E+01		
Lindane	58-89-9	0.2	0.2	1.16E-03		2.32E-03		
Manganese	7439-96-5	_	300	1.96E+01		3.91E+01		87. F
Mercury	7439-97-6	2	2	1.04E-01		2.08E-01		200
Methanol	67-56-1	_	5000	1.01E+00		2.03E+00		
Methoxychlor	72-43-5	40	40	2.16E+00		4.32E+00		
Methylene chloride	75-09-2		5	1.28E-03		2.56E-03		
•	78-93-3		4000	8.39E-01		1.68E+00		Tare territoria (
Methyl ethyl ketone (MEK) Methyl isobulyl ketone (MIBK)	108-10-1	-	500	1.13E-01		2.26E-01		
Methyl lert-butyl ether (MTBE)	1634-04-4	_	60	1.35E-02		2.70E-02		The state of the
	51218-45-2	_	100	1.17E-01		2.34E-01		-1, -4
Metolachlor/s-Metolachlor Metribuzin	21087-64-9	_	70	2.14E-02		4.28E-02		to the end of
	7439-98-7	_	40	8.08E-01		1.62E+00		a an Nighiaidh.
Molybdenum	108-90-7	100	100	6.79E-02		1.36E-01		
Monochlorobenzene	91-20-3	-	100	3.29E-01		6.59E-01		
Naphthalene			100	6.50E+00		1.30E+01		
Nickel	7440-02-0	-	7	3.82E-02		7.64E-02		1.7.
N-Nitrosodiphenylamine (NDPA)	86-30-6	-	1	1.01E-02		2.02E-02		
Pentachlorophenol (PCP)	87-86-5			1.01E-02 1.15E+00		2.30E+00		
Phenol	108-95-2		2000			2.78E-01		4,7,4
Picloram	1918-02-1	500	500	1.39E-01		9.38E-03		
Polychlorinated biphenyls (PCBs)	1336-36-3		0.03	4.69E-03 4.75E-02		9.49E-02		1957
Prometon	1610-18-0		100			9.49L-02 1.77E-02		
Propazine	139-40-2		10	8.86E-03	 -	5.45E+01		
Pyrene (PAH)	129-00-0		250	2.72E+01		6.87E-03		us i de produ
Pyridine	110-86-1	_	10	3.44E-03		5.20E-01		179,51
Selenium	7782-49-2		50	2.60E-01				
Silver	7440-22-4		50	4.25E-01		8.50E-01		
Simazine	122-34-9		4	1.97E-03		3.94E-03		The appropriate of the
Styrene	100-42-5		100	1.10E-01		2.20E-01		
Tertiary Butyl Alcohol (TBA)	75-65-0	-	12	2.45E-03		4.90E-03		
1,1,1,2-Tetrachloroethane	630-20-6	-	70	2.67E-02		5.33E-02		
1,1,2,2-Tetrachioroethane	79-34-5	-	0.2	7.80E-05		1.56E-04		
Tetrachloroethylene (PCE)	127-18-4	. 5	5	2.27E-03		4.54E-03		
Tetrahydrofuran	109-99-9	-	50	1.11E-02		2.22E-02		
Thallium	7440-28-0		2	1.42E-01		2.84E-01	-	
Toluene	108-88-3	1000	800	5.54E-01		1.11E+00		
Toxaphene	8001-35-2	3	3	4.64E-01		9.28E-01		
1,2,4-Trichlorobenzene	120-82-1	70	70	2.04E-01		4.08E-01		1000
1,1,1-Trichloroethane	71-55-6	200	200	7.01E-02		1.40E-01	:	
1,1,2-Trichloroethane	79-00-5	5	5	1.62E-03		3.24E-03	:	regret on a CLPAC to built. The Control of the Cont
Trichloroethylene (TCE)	79-01-6	5	5	1.79E-03		3.58E-03		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
2.4.5-3 richtemphanespropund aus (2.4.3-1975/mm)	93-72-1	50	50	2.75E-02		5.50E-02		1000 0000
1,2,3-Trichloropropane	96-18-4	-	60	2.60E-02		5.20E-02		
Trifluralin	1582-09-8	-	7.5	2.48E-01		4.95E-01		
	95-63-6 / 108-67-8		480	6.90E-01		1.38E+00		
Towardy Benzanes 15 2,4- and 1,3,5- combined Vanadium	7440-62-2							
Vinyl chloride	75-01-4		0.2	6.90E-05		1.38E-04		
	7 0-0 1-4	-	· · ·					and the second second

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

Site-specific Resident Equation Inputs for Soil

性温度型。「動作」を含めるとというでは、企動で表現では、過程ではないでは、またい。 Variable	Value
THQ (target hazard quotient) unitless	1
TR (target risk) unitless	1.0Ë-6
LT (lifetime) year	70
ET _{res} (exposure time) hour	24
ET (child exposure time) hour	24
ET (adult exposure time) hour	24
ET_, (mutagenic exposure time) hour	24
ET ₃₅ (mutagenic exposure time) hour	24
ET _{5.5} (mutagenic exposure time) hour	24
ET _{15.26} (mutagenic exposure time) hour	24
ED (exposure duration) year	26
ED (exposure duration - child) year	6
ED (exposure duration - adult) year	20
ED,, (mutagenic exposure duration) year	2
ED, (mutagenic exposure duration) year	4
ED 6.16 (mutagenic exposure duration) year	10
ED _{16.26} (mutagenic exposure duration) year	10
BW (body weight - child) kg	15
BW (body weight - adult) kg	80
BW _{n.2} (mutagenic body weight) kg	15
BW _{3.6} (mutagenic body weight) kg	15
BW _{ene} (mutagenic body weight) kg	80
BW, (mutagenic body weight) kg	80.
SA _{res-c} (skin surface area - child) cm ²/day	2373
SA _{res-a} (skin surface area - adult) cm ²/day	6032
SA ₀₋₂ (mutagenic skin surface area) cm ²/day	2373
SA ₂₋₆ (mutagenic skin surface area) cm ² /day	2373
SA ₆₋₁₆ (mutagenic skin surface area) cm ² /day	6032
SA ₁₆₋₂₆ (mutagenic skin surface area) cm ⁻² /day	6032
EF (exposure frequency) day/year	350
EF (exposure frequency - child) day/year	350
EF (exposure frequency - adult) day/year	350
EF ₀₋₂ (mutagenic exposure frequency) day/year	350

Site-specific Resident Equation Inputs for Soil

	the second
Variable	Value
EF _{3.s} (mutagenic exposure frequency) day/year	350
EF _{6.16} (mutagenic exposure frequency) day/year	350
EF _{16,36} (mutagenic exposure frequency) day/year	350
IFS record (age-adjusted soil ingestion factor) mg/kg	36750
IFSM (mutagenic age-adjusted soil ingestion factor) mg/kg	166833.33
IRS (soil intake rate - child) mg/day	200
IRS (soil intake rate - adult) mg/day	100
IRS _{4.7} (mutagenic soil intake rate) mg/day	200
IRS _{5,e} (mutagenic soil intake rate) mg/day	200
IRS _{6.16} (mutagenic soil intake rate) mg/day	100
IRS _{16.36} (mutagenic soil intake rate) mg/day	100
AF _{res-a} (skin adherence factor - adult) mg/cm ²	0.07
AF _{res-c} (skin adherence factor - child) mg/cm ⁻²	0.2
AF ₀₋₂ (mutagenic skin adherence factor) mg/cm ⁻²	0.2
AF ₂₋₆ (mutagenic skin adherence factor) mg/cm ⁻²	0.2
AF ₆₋₁₆ (mutagenic skin adherence factor) mg/cm ⁻²	0.07
AF ₁₆₋₂₆ (mutagenic skin adherence factor) mg/cm ⁻²	0.07
DFS _{mer, and} (age-adjusted soil dermal factor) mg/kg	103390
DFSM (mutagenic age-adjusted soil dermal factor) mg/kg	428260
City (Climate Zone) PEF Selection	Chicago, IL (7)
A _c (acres)	.5
Q/C_{wp} (g/m²-s per kg/m³)	98.430714368855
PEF (particulate emission factor) m ⁻³ /kg	1560521176.9649
A (PEF Dispersion Constant)	16.8653
B (PEF Dispersion Constant)	18.7848
C (PEF Dispersion Constant)	215.0624
V (fraction of vegetative cover) unitless	0.5
U_ (mean annual wind speed) m/s	4.65
U, (equivalent threshold value)	11.32
F(x) (function dependant on U _/U,) unitless	0.182
City (Climate Zone) VF Selection	Chicago, IL (7)
A (acres)	.5
Q/C_{vol} (g/m²-s per kg/m³)	98.430714368855
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Site-specific Resident Equation Inputs for Soil

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

Site-specific

Resident Screening Levels (RSL) for Soil

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

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

Site-specific

Resident Screening Levels (RSL) for Soil ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL). ca** (Where no St < 10 x ca St), max=St exceeds ceiling limit (see User's Guide), sat=St exceeds csat, Smax=Soil SL exceeds ceiling limit and has been substituted with the max value (see User's Guide). Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	GIABS	ABS F	₹BA	Volatilization Factor (m³/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m³/kg)	SL	Dermal SL TR=1.0E-6 (mg/kg)	SL	Carcinogenic SL TR=1.0E-6 (mg/kg)
Benzene	1	-	1	5.10E+03	1.82E+03	1.56E+09	1.26E+01	-	1.84E+00	1.60E+00
Dibromoethane, 1,2-	1	-	1	1.25E+04	1.34E+03	1.56E+09	3.48E-01	-	5.84E-02	5.00E-02
Dichloroethane, 1,2-	1	-	1	6.60E+03	2.98E+03	1.56E+09	7.64E+00	-	7.13E-01	6.52E-01
Ethylbenzene	1	_	1	8.18E+03	4.80E+02	1.56E+09	6.32E+01	-	9.19E+00	8.02E+00
Lead and Compounds	1	-	1	-	-	1.56E+09	-	-	-	-
Methyl tert-Butyl Ether (MTBE)	1	-	1	7.08E+03	8.87E+03	1.56E+09	3.86E+02	-	7.64E+01	6.38E+01
Acenaphthene	1	0.13	1	2.03E+05	-	1.56E+09	-	-	-	•
Anthracene	1	0.13	1	7.56E+05	-	1.56E+09	-	-	-	-
Benz[a]anthracene	1	0.13	1	6.37E+06	•	1.56E+09	2.10E-01	6.29E-01	5.85E+01	1.57E-01
Benzo(j)fluoranthene	1	0.13	1	-	-	1.56E+09	5.79E-01	1.58E+00	3.98E+04	4.24E-01
Benzo[a]pyrene	1	0.13	1	-	-	1.56E+09	2.10E-02	6.29E-02	1.44E+03	1.57E-02
Benzo[b]fluoranthene	1	0.13	1	-	-	1.56E+09	2,10E-01	6.29E-01	1.44E+04	1.57E-01
Benzo[k]fluoranthene	1	0.13	1	-	-	1.56E+09	2.10E+00	6.29E+00	1.44E+04	1.57E+00
Chrysene	1	0.13	1	-	-	1.56E+09	2.10E+01	6.29E+01	1.44E+05	1.57E+01
Dibenz[a,h]anthracene	1	0.13	1	-	-	1.56E+09	2.10E-02	6.29E-02	1.32E+03	1.57E-02
Dibenzo(a,e)pyrene	1	0.13	1	-	-	1.56E+09	5.79E-02	1.58E-01	3.98E+03	4.24E-02
Dimethylbenz(a)anthracene, 7,12-	1	0.13	1	-	-	1.56E+09	6.13E-04	1.84E-03	2.23E+01	4.59E-04
Fluoranthene	1	0.13	1	-	-	1.56E+09	-	-	-	-
Fluorene	1	0.13	1	4.06E+05	- "	1.56E+09	-	-	-	-
Indeno[1,2,3-cd]pyrene	1	0.13	1	-	-	1.56E+09	2.10E-01	6.29E-01	1.44E+04	1.57E-01
Methylnaphthalene, 1-	1	0.13	1	8.46E+04	3.94E+02	1.56E+09	2.40E+01	6.55E+01	-	1.76E+01
Methylnaphthalene, 2-	1	0.13	1	8.37E+04	₩	1.56E+09		-	-	-
Naphthalene	1	0.13	1	6.69E+04	-	1.56E+09	-	-	5.52E+00	5.52E+00
Nitropyrene, 4-	1	0.13	1	-	-	1.56E+09	5.79E-01	1.58E+00	3.98E+04	4.24E-01
Pyrene	1	0.13	1	3.43E+06	-	1.56E+09		-	-	-
Toluene	1	-	1	6.19E+03	8.18E+02	1.56E+09	-	-	-	-
Trimethylbenzene, 1,2,4-	1	-	1	1.14E+04	2.19E+02	1.56E+09	-	-	-	_
Trimethylbenzene, 1,3,5-	1	-	1	9.54E+03	1.82E+02	1.56E.+09	-		-	-
Xylenes	1	-	1'	8.28E+03	2.60E+02	1.56E+09	-	-	-	_
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Site-specific

Resident Screening Levels (RSL) for Soil
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL).
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Guide), sat=SL exceeds csat, Smax=Soil SL exceeds ceiling limit and has been substituted with the max value (see User's Guide).
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

	Ingestion			Noncarcinogenic				Noncarcinogenic	
	SL SL II	SL	SL Child	SL Child	SL Adult	SL Adult	SL Adult	SL Adult	Screening
	Child THQ=1	Child THQ=1	Chila THQ≈1	Child THI≕1	THQ=1	Addit THQ≃1	THQ=1	THI=1	Level
Chemical	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Benzene	3.13E+02	-	1.60E+02	1.06E+02	3.34E+03	-	1.60E+02	1.52E+02	1.60E+00 ca*
Dibromoethane, 1,2-	7.04E.+02	-	1.17E+02	1.00E+02	7.51E+03	-	1.17E+02	1.15E+02	5.00 E- 02 ca
Dichloroethane, 1,2-	4.69E+02	-	4.82E+01	4.37E+01	5.01E+03	**	4.82E+01	4.77E+01	6.52E-01 ca*
Ethylbenzene	7.82E+03	-	8.53E+03	4.08E+03	8.34E+04	-	8.53E+03	7.74E+03	8.02E+00.ca
Lead and Compounds	-	-	-	-	~	-	-	-	4.00E+02 nc
Methyl tert-Butyl Ether (MTBE)	-	-	2,21E+04	2.21E+04	-	-	2.21E+04	2.21E+04	638E401 ca
Acenaphthene	4.69E+03	1.52E+04	-	3.59E+03	5.01E+04		-	3.23E+04	3.59E+03 nc
Anthracene	2.35E+04	7.61E+04	-	1.79E+04	2.50E+05	4.56E+05	-	1.62E+05	1.79E±04 nc
Benz[a]anthracene	-	-	-	-	-	*	-	-	157E-01 ca
Benzo(j)fluoranthene	-	-	-	-	-	-	-	-	4.24E-01 ca
Benzo[a]pyrene	-	-	-	-	-	-	-	-	1,57E-02 ca
Benzo[b]fluoranthene	-	-	-	-	-	-	-	=	1,57E-01 ca
Benzo[k]fluoranthene	-	-	-	-	-	-	-	-	1/57E+00/ca
Chrysene	-	-	-	-	-	-	-	<u>.</u>	1.57E+01 ca
Dibenz[a,h]anthracene	-	•	-	-	•	-	-	-	157E-02 ca
Dibenzo(a,e)pyrene	-	-	-	-	-	-	-	-	4.24E-02 ca
Dimethylbenz(a)anthracene, 7,12-	•	-	-	-	-	-	•	-	4.59E-04 ca
Fluoranthene	3.13E+03	1.01E+04	-	2.39E+03		6.08E+04	-	2.15E+04	2.39E#03 nc
Fluorene	3.13E+03	1.01E+04	-	2.39E+03	3.34E+04	6.08E+04	-	2.15E+04	2,39E+03.nc
Indeno[1,2,3-cd]pyrene	-	-	-	-	-	-	-	-	1.57E-01 ca
Methylnaphthalene, 1-	5.48E+03	1.77E+04	-	4.18E+03	5.84E+04	1.06E+05	-	3.77E+04	1.76E±01 ca
Methylnaphthalene, 2-	3.13E+02	1.01E+03	_ :	2.39E+02	3.34E+03	6.08E+03	-	2,15E+03	2 39E+02 nc
Naphthalene	1.56E+03	5.07E+03	2.09E+02	1.78E+02	1.67E+04	3.04E+04	2.09E+02	2.05E+02	5.52E+00 ca*
Nitropyrene, 4-	-	-	-	•	-	-	-	-	4/24E-01 ca
Pyrene	2.35E+03	7.61E+03	-	1.79E+03	2.50E+04	4.56E+04	-	1.62E+04	1.79E+03 nc
Toluene	6.26E+03	-	3.23E+04	5.24E+03	6.67E+04	-	3.23E+04	2.18E+04	5,24E+03 sat
Trimethylbenzene, 1,2,4-	-	-	8.34E+01	8.34E+01	=	-	8.34E+01	8.34E+01	8.34E+01 nc
Trimethylbenzene, 1,3,5-	7.82E+02	-	-	7.82E+02	8.34E+03	-	-	8.34E+03	7,82E+02 sat
Xylenes	1.56E+04	-	8.64E+02	8.18E+02	1.67E+05	-	8.64E+02	8.59E+02	8 18E+02 sat

(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.

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. 41-94; cr. (18), (10e), (10e), (20k), rad (ecr. (12), (13), Register, August. 1995, No. 476, eff. 9-1-95; cr. (14m), Register, October, 1996, No. 490, eff. 11-1-96; am. (20), Register, December, 1998, No. 516, eff. 1-1-99, correction in (9) made under s. 13.93 (2m) (b) 7. Stats..Register, April, 2001, No. 544; CR 02-134; cr. (1u), (1w), (1y) and (20s) Register June 2003 No. 570, eff. 7-1-03; correction in (20) made under s. 13.92 (4) (b) 6. Stats.. Register January 2012 No. 673.

Subchapter II - Groundwater Quality Standards

NR 140.10 Public health related groundwater standards. The groundwater quality standards for substances of public health concern are listed in Table 1.

Note: For all substances that have carcinogenic, mutagenic or teratogenic properties or interactive effects, the preventive action limit is 10% of the enforcement standard. The preventive action limit is 20% of the enforcement standard for all other substances that are of public health concern. Enforcement standards and preventive action limits for additional substances will be added to Table 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/1	1.8 mg/1
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	Ţ
Asbestos	7 million fibers per liter (MFL)	0.7 MFL
Atrazine, total chlorinated residues	32	0.32
Bacteria, Total Coliform	0_3	0^{3}
Barium	2 milligrams/liter (mg/l)	0.4 mg/l
Bentazon	300	60
Benzene	5	0.5
Benzo(b)fluoranthene	0.2	0.02
Benzo(a)pyrene	0.2	0.02
Beryllium	4	0.4
Boron	1000	200
Bromodichloromethane	0.6	0.06
Bromoform	4.4	0.44
Bromomethane	10 .	1
Butylate	400	80
Cadmium	5	0.5
Carbaryl	40	4
Carbofuran	40	8
Carbon disulfide	1000	200
Carbon tetrachloride	5	0.5
Chloramben	150	30
Chlordane	2	0.2
Chlorodifluoromethane	7 mg/l	0.7 mg/l
Chloroethane	400	80
Chloroform	6	0,6
Chlorpyrifos	2	0,4
Chloromethane	30	3
Chromium (total)	100	10
Chrysene	0.2	0.02

Table 1 - Continued Public Health Groundwater Quality Standards

Substance ¹	Enforcement Standard (micrograms per liter – except as noted)	Preventive Action Limit (micrograms per liter – except as noted)
Cobalt	40	8
Copper	1300	130
Cyanazine	1	0.1
Cyanide, free ⁴	200	40
Dacthal	70	14
1,2-Dibromoethane (EDB)	0.05	0,005
Dibromochloromethane	60	6
1,2-Dibromo-3-chloropropane (DBCP)	0.2	0.02
Dibutyl phthalate	1000	100
Dicamba	300	60
1,2-Dichlorobenzene	600	60
1,3-Dichlorobenzene	600	120
1,4-Dichlorobenzene	75	15
Dichlorodifluoromethane	1000	200
1,1-Dichloroethane	850	85
1,2-Dichloroethane	5	0.5
1,1-Dichloroethylene	7	0.7
1,2-Dichloroethylene (cis)	70	7
1,2-Dichloroethylene (trans)	100	20
2,4-Dichlorophenoxyacetic Acid (2,4-D)	70	7
1,2-Dichloropropane	5	0.5
1,3-Dichloropropene (cis/trans)	0.4	0.04
Di (2-ethylhexyl) phthalate	6	0.6
Dimethenamid/Dimethenamid-P	50	5
Dimethoate	2	0.4
2,4-Dinitrotoluene	0.05	0.005
2,6-Dinitrotoluene	0.05	0.005
Dinitrotoluene, Total Residues ⁵	0.05	0.005
Dinoseb	7	1.4
1,4-Dioxane	3	0.3
Dioxin (2, 3, 7, 8–TCDD)	0.00003	0.00003
Endrin	2	0.4
EPTC	250	50
Ethyłbenzene	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
Heptachior	0.4	0.04
Teptachlor epoxide	0.2	0.02
-teptachior epoxide Hexachlorobenzene	0.2	0.02
	•	
V-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 ^f	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)	I mg/I	0.2 mg/l
V-Nitrosodiphenylamine	7	0.7
Pentachlorophenol (PCP)	I	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
Fertiary Butyl Alcohol (TBA)	12	1.2
,1,1,2-Tetrachloroethane	70	7
,1,2,2—Tetrachloroethane	0.2	0.02
Fetrachloroethylene	5	0.5
Tetrahydrofuran	50	10
Thaltium	2	0.4
Coluene	800	160
oxaphene	3	0.3
,2,4—Trichlorobenzene	70	
,I,1-Trichloroethane		14 40
	200	
,1,2—Trichloroethane	5	0.5
`richloroethylene (TCE) ,4,5-Trichlorophenoxy-propionic acid (2,4,5-TP)	5 50	0.5 5
,2,3—Trichloropropane	60	12
rifluralin	7.5	0.75
rmurann rimethylbenzenes		
· ·	. 480	96
(1,2,4- and 1,3,5- combined)	÷.	
'anadium	30	6

Table 1 - Continued Public Health Groundwater Quality Standards

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

- Appendix I contains Chemical Abstract Service (CAS) registry numbers, common synonyms and trade names for most substances listed in T able 1.
- ² Total chlorinated atrazine residues includes parent compound and the following metabolities 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-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 fernnentation (MTF) technique.
- +"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".
- ³ 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.
- "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; an. Table 1, Register, December, 1998, No. 516, eff. 12–31–99; am. Table 1, Boron, Register, December, 1998, No. 516, eff. 12–31–99; am. Table 1, Register, December, 1998, No. 516, eff. 12–31–99; am. Table 1, Register, December, 1998, No. 516, eff. 12–31–99; am. Table 1, Register, December, 1998, No. 516, eff. 12–31–99; am. Table 1, Register, December, 1998, No. 516, eff. 12–31–99; am. Table 1, Register, December, 1998, No. 516, eff. 12–11–18; CR 09–102; am. Table 1, Register, December, 1998, No. 625, eff. 2–1–98; 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	1.5
	(Threshold Odor No.)	(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 appropri ate 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
- The substance has been statistically confirmed to be present above the preventive action limit or enforcement standard, determined by an appropriate statistical test with sufficient samples at a significance level of 0.05.
- (c) If the preventive action limit or enforcement standard is between the limit of detection and the limit of quantitation, the regulatory agency shall consider the preventive action limit or

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APPENDIX F/ QUALIFICATIONS OF METCO PERSONNEL

Site Investigation Report - METCO Amberg Oil Tank Farm Ronald J. Anderson, P.G.

Professional Titles

- · Senior Hydrogeologist
- · Project Manager

Credentials

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

Education

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

Post-Graduate Education

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

Work Experience

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

Site Investigation Report - METCO Amberg Oil Tank Farm 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.

Site Investigation Report - METCO Amberg Oil Tank Farm Eric J. Dahl

Professional Title

Hydrogeologist

Credentials

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

Education

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

Post-Graduate Education

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

Work Experience

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

Site Investigation Report - METCO Amberg Oil Tank Farm
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.

Site Investigation Report - METCO Amberg Oil Tank Farm 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.

Site Investigation Report - METCO Amberg Oil Tank Farm Matthew C. Michalski

Professional Title

Hydrogeologist

Credentials

- Registered through the Wisconsin Department of Safety and Professional Services as a PECFA consultant (#1261443).
- · Member of the Wisconsin Groundwater Association
- Member of the Minnesota Groundwater Association
- · Member of the National Groundwater Association
- Member of the American Institute of Professional Geologist
- · Member of the Geological Society of America

Education

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

Post-Graduate Education

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

Work Experience

With METCO since May 2016 as a Hydrogeologist and from August 2012 to August 2014 as a Staff scientist. Duties have included: soil and groundwater sampling, Site Investigations, Phase I and Phase II Environmental Site Assessments, Case Closure Requests/GIS Registry, Geoprobe projects (oversight, direction, and sampling), drilling projects/monitoring well installation (oversight, direction, and sampling), and operation and maintenance of remedial systems, site mapping, data reduction and analysis, and reporting.

Site Investigation Report - METCO Amberg Oil Tank Farm Bryce Kujawa

Professional Title

Staff Scientist

Credentials

- Registered through the Wisconsin Department of Safety and Professional Services as a PECFA consultant (#17138).
- · 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 Hydrogeology, Contaminant Hydrogeology, Field Geology I and II, Mineralogy and Petrology I and II, Sedimentology and Stratigraphy, Petroleum and Economic Geology, Earth History, Physical Geology, Structural Geology, Computers in Geology, Geographic Informational Systems, Global Environmental Change, and General Chemistry.

Work Experience

With METCO since June, 2016 as Staff Scientist. Duties include: soil and groundwater sampling, operation and maintenance of remedial systems, Geoprobe projects (oversight, direction, and sampling), site mapping, data reduction and analysis, and reporting.

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APPENDIX G/ STANDARD OF CARE

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STANDARD OF CARE

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

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

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

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

Jason T. Powell Staff Scientist Date

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

Ronald J. Anderson PG

Senior Hydrogeologist/Project Manager

Tan T. Powell

Date