

### **Site Investigation Report**

Lueptow Property
W448 County Road Z
Town of Dover (Mondovi), Wisconsin

October 31, 2013 by METCO

WDNR Reference #: 03-06-000583 PECFA Claim #: 54747-9998-00-A



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This document was prepared by:

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October 31, 2013

WDNR #: 03-06-000583

PECFA Claim #: 54747-9998-00-A

Lisa Lisowski W448 County Rd Z Mondovi, WI 54755

Dear Ms. Lisowski,

Enclosed is our Site Investigation Report concerning the Lueptow Property site located in Mondovi, Wisconsin. This report presents the complete data from all investigation activities.

Due to the fact that site assessment sample(s) were not collected during the UST removal, and based on the geoprobe project soil and groundwater sampling results, METCO recommends that the Lueptow Property site be assigned "No Action Required" for the following reasons: 1) No soil samples showed any exceedances for any contaminants of concern. 2) Groundwater samples showed no detections for any contaminants of concern.

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

Sincerely,

Jason T. Powell Staff Scientist

JTP:ds

c: David Hon - WDNR

To Towell

### **EXECUTIVE SUMMARY**

The subject property was formerly a small country store with an attached living quarters. The subject property had a UST system for retail fuel sales that operated during the 1940's and 1950's. The property is currently used as a residence.

In May 1991, the Mondovi Fire Department oversaw the removal of a 250-gallon leaded gasoline UST and a 500-gallon leaded gasoline UST. During the UST removal, petroleum contamination was encountered beneath the removed UST's, however assessment samples were not collected. The petroleum contamination was reported to the WDNR, who then required that a site investigation be conducted.

The Site Investigation consisted of completion of ten geoprobe borings with soil and groundwater sampling, sampling of the on-site potable well, and a potable well field reconnaissance.

The results of the Site Investigation soil and groundwater sampling indicate that no significant release of petroleum products from the former UST systems has occurred. Each of the ten geoprobe borings did show a detect for Lead in soil, however all of these results remained below the NR720 Soil Cleanup Standards. The only soil sample to show any other detect for any contaminant of concern, was G-8-1, however detects remained well below the NR720 standards. All groundwater samples collected showed no laboratory detections for any contaminants of concern. Results of the investigation are as follows:

- Unconsolidated materials in the area of investigation consist of sandy silt from ground surface to depths ranging from 3 to 7 feet below ground surface, underlain by sand to at least 24 feet below ground surface.
- Soil contamination exceeding the NR720 Soil Cleanup Standards does not appear to exist on the subject property.
- According to data collected from the geoprobe boring samples, the depth to groundwater is approximately 15-19 feet below surface depending on location and the time of year. Groundwater flow direction is not known at this time, but is expected to be toward the northwest to northeast.
- Groundwater contamination exceeding the NR140 ES and/or PAL does not appear to exist on the subject property.

Due to the fact that soil assessment sample(s) were not collected during the UST removal, and based on the geoprobe project soil and groundwater sampling results, METCO recommends that the Lueptow Property site be assigned "No Action Required" for the following reasons: 1) No soil sample showed any exceedances for any contaminants of concern. 2) Groundwater samples showed no detections for any contaminants of concern.

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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 Soil Cleanup Standards or NR746 Table 1 or Table 2 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

Lisa Lisowski W448 County Road Z Mondovi, WI 54755 (715) 946-3311

#### 1.2 Consultant Information

#### Consultant

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

#### **Subcontractors**

Geiss Soil & Samples, LLC W4490 Pope Road Merrill, WI 54452 (715) 539-3928 Synergy Environmental Lab 1990 Prospect Court Appleton, WI 54914 (920) 830-2455

#### 1.3 Site Location

Site address: 448 County Road Z Town of Dover (Mondovi), Wisconsin

Latitude and Longitude: 44° 29' 16" N and 91° 37' 11" W

WTM Coordinates: 391212, 447341

**Note:** The WDNR RR Sites Map incorrectly depicts the location of the Lueptow Property site. Above are the correct coordinates.

Township/Range:

SE ¼, NW ¼, Section 8, Township 23 North, Range 10 West, Buffalo County

### 1.4 Site History

The subject property was formerly a small country store with an attached living quarters. The subject property had a UST system for retail fuel sales that operated during the 1940's and 1950's. The property is currently used as a residence.

In May 1991, the Mondovi Fire Department oversaw the removal of a 250-gallon leaded gasoline UST and a 500-gallon leaded gasoline UST. During the UST removal, petroleum contamination was encountered beneath the removed UST's, however assessment sample(s) were not collected. The petroleum contamination was reported to the WDNR, who then required that a site investigation be conducted.

No other LUST/ERP sites are known to exist within three miles of the subject property.

### 2.0 GEOLOGY AND RECEPTORS

### 2.1 Regional and Local Geology and Hydrogeology

### **Topography and Regional Setting**

According to the USGS Hydrologic Atlas, the subject property is located in the southern portion of the Trempealeau-Black River Basin. This area is characterized by rugged, steep-walled valleys and high relief, a lack of glacial deposits, and streams that have cut deeply into the relatively flat-lying bedrock.

The elevation of the site is approximately 840 feet above Mean Sea Level (MSL). See Section 6 for site location.

#### Soil and Bedrock

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

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

- From surface to depths ranging from 3 to 7 feet below ground surface exists a tan to brown to green, sandy silt.
- From depths ranging from 3 to 7 feet, to at least 24 feet below ground surface exists an orange to tan to brown, very fine to coarse grained sand.

Bedrock was not encountered during the investigation, however, Cambrian sandstone bedrock is believed to exist at approximately 50-100 feet below ground surface (bgs).

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

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

### Hydrogeology

According to data collected from the geoprobe boring samples, the depth to groundwater is approximately 15-19 feet below surface depending on location and the time of year. Groundwater flow direction is not known at this time, but is expected to be toward the northwest to northeast.

Please note, perched water was likely encountered in geoprobe borings G-1, G-3, and G-5, from depths ranging from 7-11 feet below ground surface.

### 2.2 Receptors

### **Buildings, Basements, Sumps, Utility Corridors**

Soil and/or groundwater contamination does not appear to be present at the site, therefore, no receptors appear to be at risk at this time.

#### Municipal and Private Water Supply Wells

A private supply well supplies the subject property with potable water. The private well is located in the crawl space beneath an addition, on the east side of the house. The only other private potable well that exists in this area is the potable well for the church, south of County Highway Z. This well exists approximately 150 to the southeast of the former UST area.

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

The private well locations are shown on the Site Layout Map presented in Section 6.0.

#### **Surface Waters**

The nearest surface water is Elk Creek, which exists approximately 350 feet to the north of the subject property.

### 3.0 SITE INVESTIGATION RESULTS, RISK CRITERIA

#### 3.1 Methods of Investigation

### Workscope

The workscope performed for the LUST Investigation included the following:

- 1) Collected site background information.
- 2) On April 15, 2013, METCO completed ten geoprobe borings. Fifty-one soil samples and ten groundwater samples were collected for field and/or laboratory analysis. METCO personnel also collected a potable well sample from the on-site well for VOC (524.2) analysis.
- 3) On April 15, 2013, METCO conducted a potable well field reconnaissance to identify any potable wells within ½ mile of the subject property.

#### 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 15, 2013, during the Geoprobe Project, ten geoprobe borings were completed with fifty-one soil samples collected for field and/or laboratory analysis (PID, Lead, GRO, PVOC, VOC, and/or Naphthalene).

Soil analytical results are summarized in the Soil Analytical Results Summary Tables with exceedances of the WDNR Soil Standards noted (it should be noted that no soil exceedances were detected during the Site Investigation).

Soil sample locations are presented in the Site Layout 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 April 15, 2013, during the Geoprobe Project, METCO collected one groundwater sample from each of the ten borings for laboratory analysis (PVOC and Naphthalene).

Geoprobe Boring analytical results are summarized in the Groundwater Analytical Results Summary Table.

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

### Potable Well Sampling Data

On April 15, 2013, during the Geoprobe Project, METCO collected a groundwater sample from the on-site potable well for laboratory analysis (VOC 524.2).

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

at this time:

- 1. <u>Documented expansion of plume margin:</u> Based on the Geoprobe Project, no evidence of plume expansion has been seen.
- 2. Verified contaminant concentrations in a private or public potable well that exceeds the preventive action limit established under Chapter, Stats. 160: The potable well for the subject property was sampled during the Geoprobe Project and showed no laboratory detections for any contaminants of concern. Only one other potable well exists within 1,200 feet of the site, however, since contamination does not appear to be present at the subject property, that well was not sampled.
- 3. Contamination within bedrock or within one meter of bedrock:

  Petroleum contamination has not been documented to date, therefore contamination does not appear to exist in or within one meter of the bedrock.
- 4. 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: Free product was not encountered in any of the geoprobe boring locations.
- 5. <u>Documented contamination discharges to a surface water or wetland:</u> Petroleum contamination has not been documented to date, therefore contamination does not appear to extend to Elk Creek or any other surface waters.
- b) <u>Soil contamination relative to Table 1 values.</u> No soil samples exceeded any NR746 Table 1 values.
- c) Soil contamination within 4 feet of the ground surface relative to Table 2 values: No soil samples collected within the top 4 feet of the ground surface exceeded any NR746 Table 2 values.
- d) Non-Table 2 contaminants of potential concern within 4 feet of the ground surface. No soil samples collected within the top 4 feet of the ground surface exceeded any Non-Table 2 contaminants.
- e) Except for the substances listed in Table 2, there is no human health risk from direct contact for a substance listed in Table 1 if the substances' concentration is below the Table 1 soil screening level. None of the soil samples collected within the top 4 feet of the ground surface exceeded NR746 Table 1 values.
- f) Time frame of the most recent petroleum-product contaminant release. Any release must be considered greater than 10 years, as the UST was removed in 1991.
- g) Evidence of petroleum product contamination within a utility corridor or within permeable material or soil along which vapors, free product or contaminated water may flow. Since contamination does not appear to exist on the subject property, utility corridors acting as preferential contaminant migration pathways do not appear to be a risk at this site.
- h) Evidence of migration or imminent migration of petroleum product contamination to building foundation drain tile, sumps or other points of

entry into a basement or other enclosed structure where petroleum vapors could collect and create odors or an adverse impact on indoor air quality or where contaminants may pose an explosion hazard. Since contamination does not appear to exist on the subject property, vapor intrusion does not appear to be a risk at this site.

i) Enforcement standard exceedances 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. No municipal or private water supply wells appear to be at risk from the subject property since petroleum contamination does not appear to be present.

#### 3.6 Risk Assessment

No soil or groundwater exceedances have been documented to date for this site. Thus, METCO is submitting this Site Investigation report and will be requesting that "No Action Required" be assigned for this site.

### 4.0 CONCLUSIONS

### 4.1 Investigation Summary

The results of the Site Investigation soil and groundwater sampling indicate that no significant release of petroleum products from the former UST systems has occurred. Each of the ten geoprobe borings did show a detect for Lead in soil, however all of these results remained below the NR720 Soil Cleanup Standards. The only soil sample to show any other detect for any contaminant of concern, was G-8-1, however detects remained well below the NR720 standards. All groundwater samples collected showed no laboratory detections for any contaminants of concern. Results of the investigation are as follows:

- Unconsolidated materials in the area of investigation consists of sandy silt from ground surface to depths ranging from 3 to 7 feet below ground surface, underlain by sand to at least 24 feet below ground surface.
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- According to data collected from the geoprobe boring samples, the depth to groundwater is approximately 15-19 feet below surface depending on location and the time of year. Groundwater flow direction is not known at this time, but is expected to be toward the northwest to northeast.
- Groundwater contamination exceeding the NR140 ES and/or PAL does not appear to exist on the subject property.

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

#### 4.2 Recommendations

Due to the fact that soil assessment sample(s) were not collected during the UST removal, and based on the geoprobe project soil and groundwater sampling results, METCO recommends that the Lueptow Property site be assigned "No Action Required" for the following reasons: 1) No soil sample showed any exceedances for any contaminants of concern. 2) Groundwater samples showed no detections for any contaminants of concern.

#### 5.0 REFERENCES

H.L. Young and R.G. Borman, 1973, Water Resources of Wisconsin Trempealeau-Black River Basin, Hydrologic Investigations, Atlas HA-474, U.S. Geological Survey, Washington D.C.

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

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

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

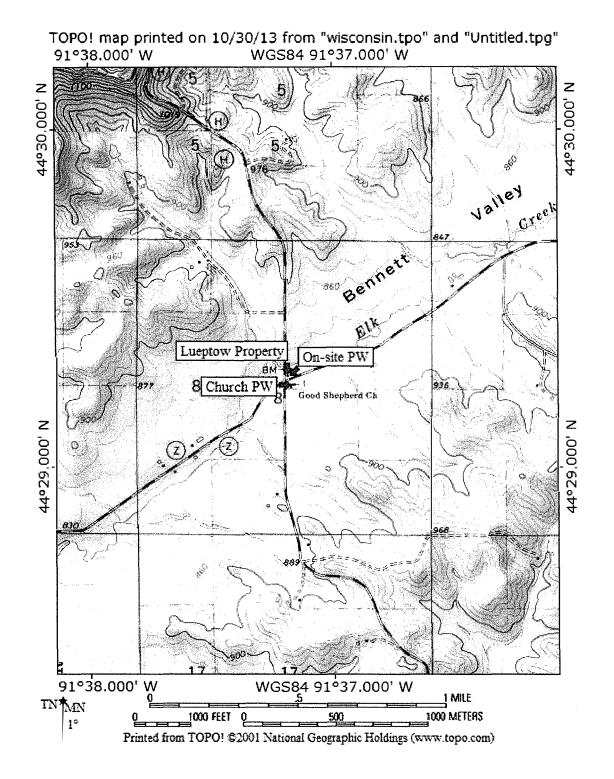
Seamless USGS Topographic Maps on CD-ROM, 2001, National Geographic Holdings, Inc., San Francisco, California.

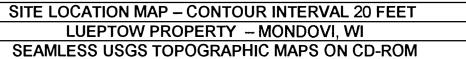
Walton, W.C., 1989, Groundwater Pumping Tests, Chelsea, Michigan.

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

Other information and data was collected from Lisa Lisowski, Mondovi Fire Department, City of Mondovi, Diggers Hotline, Geiss Soil & Samples Inc., Synergy Environmental Lab, Wisconsin Department of Natural Resources, and local people.

6.0 FIGURES







NOTE: INFORMATION BASED ON AVADATA, ACTUAL CONDITIONS MAY D



MODIFIED

- = GEOPROBE BORING LOCATIO
- O = POWER POLE
- \* POTABLE WELL

APPROXIMATE PROPERTY BOUNDA

**FENCE** 

BURIED TELEPHONE LINE

SEPTIC LINE

OVERHEAD POWER LINES

NEXT RESIDENCE APPROXIMATELY I/2 MILE ON SOUTH SIDE OF HWY Z

NEXT APPRURCH I/2 M SIDE

### CROSS-SE(

### \_UFPTOW\_PR



NOTE: INFORMATION BASED ON AV. DATA, ACTUAL CONDITIONS MAY E



- = GEOPROBE BORING LOCATIO
- POWER POLE
- POTABLE WELL

APPROXIMATE PROPERTY BOUND!

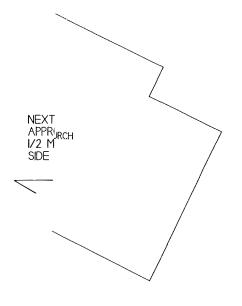
FENCE

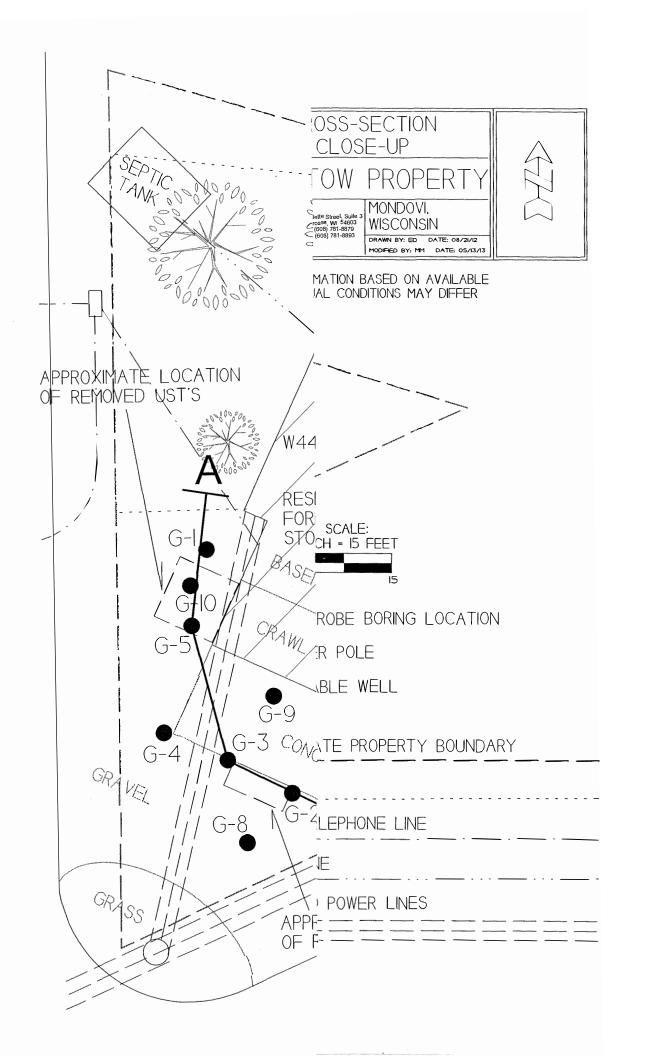
BURIED TELEPHONE LINE

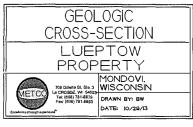
SEPTIC LINE

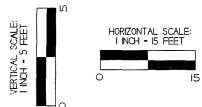
OVERHEAD POWER LINES

NEXT RESIDENCE APPROXIMATELY I/2 MILE ON SOUTH SIDE OF HWY Z









INFORMATION BASED ON AVAILABLE DATA. ACTUAL CONDITIONS MAY DIFFER.

SOIL SAMPLE RESULTS FOR LEAD ARE PRESENTED IN PARTS PER MILLION (PPM). RESULTS FOR PVOCS ARE PRESENTED IN PARTS PER BILLION (PPB).

GROUNDWATER SAMPLE RESULTS ARE PRESENTED IN PPB.

NOTE: SOIL AND GROUNDWATER SAMPLE DATA IS BASED ON LABORATORY RESULTS FROM SAMPLES COLLECTED DURING THE GEOPROBE PROJECT - (4/15/2013)

NOTE: PERCHED WATER WAS LIKELY ENCOUNTERED IN GEOPROBE BORINGS GH. G-3, AND G-5 AT DEPTHS RANGING FROM 7-II FEET BELOW GROUND SURFACE.

- GEOPROBE BORING LOCATION
- GEOPROBE SOIL SAMPLE LOCATION

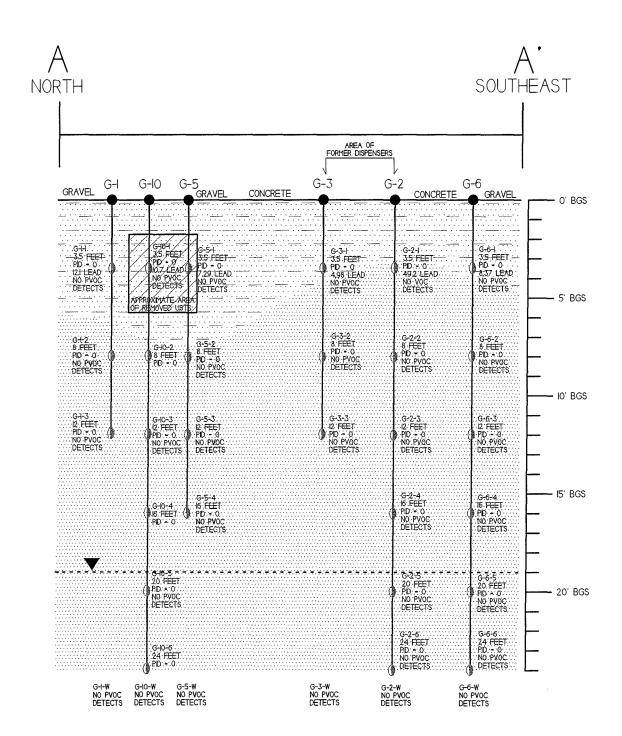
- WATERTABLE

PID - PHOTO IONIZATION DETECTOR
GRO - GASOLINE RANGE ORGANICS
PVOC - PETROLEUM VOLATILE ORGANIC COMPOUNDS
VOC - VOLATILE ORGANIC COMPOUNDS
B - BENZENE
E - ETHYLBENZENE
MTBE - METHYL TERT-BUTYL ETHER
N - NAPHTHALENE
T - TOLUENE
TMB - TRIMETHYLBENZENE
X - XYLENE

TAN TO BROWN SANDY SILT



ORANGE TO TAN TO BROWN VERY FINE TO COARSE GRAINED SAND



7.0 DATA TABLES, GRAPHS, AND STATISTICAL ANALYSIS

### Soil Analytical Results Summary Lueptow Property LUST Site BRRTS# 03-06-000583

Sample	Depth	Date	PID	Lead	DRO	GRO	1	Ethyl !		Naph-	i	1,2,4-Trime-	1,3,5-Trime-	Xylene	Other VOC's
ID	(feet)	Date	1 10	(ppm)	(ppm)	(ppm)	Benzene	Benzene	MTBE	thalene	Toluene	thylbenzene	thylbenzene	(Total)	(ppb)
,,,	(1001)	1		(PPIII)	(PPIII)	(PPIII)	(ppb)	(ppb)	(ppb)	(dqq)	(dag)	(ppb)	(ppb)	(dad)	(PPD)
G-1-1	3.5	04/15/13	0	12.1	NS	<10	<25	<25	<25	<25	<25	<25	<25	<75	NS
G-1-2	8.0	04/15/13	0	NS	NS	<10	<25	<25	<25	<25	<25	<25	<25	<75	NS
G-1-2	12.0	04/15/13	0	NS	NS NS	<10	<25	<25	<25	<25	<25	<25	<25	<75	NS NS
G-1-3	12.0	1 04/13/13	0	1113	1 113	<u> </u>	1 <25	1 25 1	<b>\2</b> 5	1 (25	I <25	\25	1 <25	l 5</td <td></td>	
															SEE VOC
G-2-1	3.5	04/45/40	0	40.0	NS	<10	-0.0	-10	<30	-11	-00	400	-00	-00	SPREAD-
		04/15/13	0	49.2			<9.2	<10		<14	<20	<26	<26	<99	SHEET
G-2-2	8.0	04/15/13		NS	NS	<10	<25	<25	<25	<25	<25	<25	<25	<75	NS
G-2-3	12.0	04/15/13	0	NS	NS	<10	<25	<25	<25	<25	<25	<25	<25	<75	NS
G-2-4	16.0	04/15/13	0	NS	NS	<10	<25	<25	<25	<25	<25	<25	<25	<75	NS
G-2-5	20.0	04/15/13	0	NS	NS	<10	<25	<25	<25	<25	<25	<25	<25	<75	NS
G-2-6	24.0	04/15/13	0	NS	NS	<10	<25	<25	<25	<25	<25	<25	<25	<b>  &lt;</b> 75	NS
G-3-1	3.5	04/15/13	0	4.98	NS	<10	<25	<25	<25	<25	<25	<25	<25	<75	NS
G-3-2	8.0	04/15/13	0	l NS	NS	<10	<25	<25	<25	<25	<25	<25	<25	<75	NS
G-3-3	12.0	04/15/13	0	l NS	NS	<10	<25	<25	<25	<25	<25	<25	<25	<75	NS
G-4-1	3.5	04/15/13	0	6.85	NS	<10	<25	<25	<25	<25	<25	<25	<25	<75	NS
G-4-2	8.0	04/15/13	0	NS	NS	<10	<25	<25	<25	<25	<25	<25	<25	<75	NS
G-4-3	12.0	04/15/13	0	NS	NS	<10	<25	<25	<25	<25	<25	<25	<25	<75	NS
G-4-4	16.0	04/15/13	0	NS	NS	<10	<25	<25	<25	<25	<25	<25	<25	<75	NS
G-4-5	20.0	04/15/13	0	NS	NS	<10	<25	<25	<25	<25	<25	<25	<25	<75	NS
G-5-1	3.5	04/15/13	0	7.29	NS	<10	<25	<25	<25	<25	<25	<25	<25	<75	NS
G-5-2	8.0	04/15/13	0	NS	l NS	<10	<25	<25	<25	<25	<25	<25	<25	<75	NS
G-5-3	12.0	04/15/13	0	NS	l NS	<10	<25	<25	<25	<25	<25	<25	<25	<75	NS NS
G-5-4	16.0	04/15/13	0	NS	NS	<10	<25	<25	<25	<25	<25	<25	<25	<75	NS
G-6-1	3.5	04/15/13	0	8.37	NS NS	<10	<25	<25	<25	<25	<25	<25	<25	<75	NS
G-6-2	8.0	04/15/13	0	0.37	1 143	<u> </u>	1 1/25	1 <25	NOT SAI		1 525	1 <25	<b>\</b> 25	1 15	
				NS NS	l NS	<10	1 -05	1 405	1 <25		<25	1 405	1 405	1 -75	NS
G-6-3	12.0	04/15/13	0	1 1/15	I N2	<10	<25	<25		<25	<25	<25	<25	<75	NS
G-6-4	16.0	04/15/13	0	1	1 110	1 .40	1 .05	1 05	NOT SAI		1 .05		1	.75	NS
G-6-5	20.0	04/15/13	0	NS	NS	<10	<25	<25	<25	<25	<25	<25	<25	<75	NS
G-6-6	24.0	04/15/13	0	7.74					NOT SAI						NS
G-7-1	3.5	04/15/13	0	7.71	NS	<10	<25	<25	<25	<25	<25	<25	<25	<75	NS
G-7-2	8.0	04/15/13	0						NOT SA						NS
G-7-3	12.0	04/15/13	0	NS	l NS	<10	<25	<25	<25	<25	<25	<25	<25	<75	NS NS
G-7-4	16.0	04/15/13	0						NOT SA					,	NS
G-7-5	20.0	04/15/13	0	NS	NS	<b>  &lt;10</b>	<25	<25	<25	<25	<25	<25	<25	<b>&lt;</b> 75	l NS
G-7-6	24.0	04/15/13	0						NOT SA						l NS
G-8-1	3.5	04/15/13	0	6.39	NS	<10	<25	<25	<25	<25	31.5	28.6	<25	<75	l NS
G-8-2	8.0	04/15/13	0						NOT SA						l NS
G-8-3	12.0	04/15/13	0	NS	NS	<10	<25	<25	<25	<25	<25	<25	<25	<75	NS
G-8-4	16.0	04/15/13	0						NOT SA	MPLED					l NS
G-8-5	20.0	04/15/13	1 0	NS	NS	<10	<25	<25	<25	<25	<25	<25	<25	<75	l NS
G-8-6	24.0	04/15/13	0						NOT SA	MPLED					NS
G-9-1	3.5	04/15/13	0	7.25	NS	<10	<25	<25	<25	<25	<b>  &lt;25</b>	<25	<25	<75	l NS
G-9-2	8.0	04/15/13	0						NOT SA	MPLED					NS
G-9-3	12.0	04/15/13	0	NS	NS	<10	<25	<25	<25	<25	<25	<25	<25	<b>  &lt;</b> 75	l NS
G-9-4	16.0	04/15/13	0						NOT SA	MPLED		-			NS
G-9-5	20.0	04/15/13	0	NS	NS	<b>  &lt;10</b>	<b>  &lt;25</b>	<25	<25	<25	<25	<25	<25	<b>&lt;</b> 75	l NS
G-9-6	24.0	04/15/13	0	1					NOT SA						NS
G-10-1	3.5	04/15/13	0	10.7	NS	<b>i</b> <10	<b>  &lt;25</b>	<25	<25	<25	<25	<25	<b>  &lt;25</b>	I <75	l NS
G-10-2	8.0	04/15/13	0	i					NOT SA						I NS
G-10-3	12.0	04/15/13	0	l NS	NS	<10	<25	<25	<25	<25	<25	<25	<25	<75	l NS
G-10-4	16.0	04/15/13	0	<del>i .,,,</del>	,				NOT SA			,	, 20	, ,,	l NS
G-10-4	20.0	04/15/13	0	l NS	l NS	<b>!</b> <10	<25	<25	1 <25	<25	<25	l <25	l <25	<b>  &lt;</b> 75	l NS
G-10-5 G-10-6	24.0	04/15/13	0	1 110	1 110	1 10	1 720	1 120	NOT SA	•	1 120	1 720	1 -20	1 10	l NS
<u> </u>	24.0	1	1 0	1	1	1	1	1	I INOT SA	I	1	1	1	1	1 140
NR720			J	50	100	100	5.5	2900		<del> </del>	1500		<del> </del>	4100	<del> </del>
NR746 Ta	blo 1				1	1	8500	4600		2700	1 38000	83000	1 11000	42000	1
NR746 Ta				1	1	1	1 1100	1 4600		1 2700	1 30000		1 11000	42000	1
		adaar -				1	1100	1	<u> </u>						j
Bold = NR	.ı∠u ⊨xce	euance													

Bold = NR720 Exceedance
Bold/Underline = NR746 Exceedance
NS = Not Sampled

### Soil Analytical Results Summary Lueptow Property LUST Site BRRTS# 03-06-000583

### Well Sampling Conducted on April 15, 2013

100		NR720 Bold =		NR746 Table 2 Bold/Underline =
VOC's	G-2-1	Exceedance	Exceedance	Exceedance
Solids Percent	95.6	==	==	==
Lead/ppm	49.2	50	==	==
GRO/ppm	<10	100	202	==
Benzene/ppb	<9.2	5.5	8500	<u>1100</u>
Bromobenzene/ppb Bromodichloromethane/ppb	<13 <27	==	==	==
Bromoform/ppb	<30	==	==	
tert-Butylbenzene/ppb	<20	==	==	===
sec-Butylbenzene/ppb	<41	==	==	mm
n-Butylbenzene/ppb	<26	==	==	==
Carbon Tetrachloride/ppb	<25	==	==	==
Chlorobenzene/ppb	<16	==	==	==
Chloroethane/ppb	<42	==	==	==
Chloroform/ppb	<49	==	==	==
Chloromethane/ppb	<181	==	==	==
2-Chlorotoluene/ppb	<16	==	==	==
4-Chlorotoluene/ppb	<14	==		<b>22</b>
1,2-Dibromo-3-chloropropane/ppb	<48	==	==	==
Dibromochloromethane/ppb 1,4-Dichlorobenzene/ppb	<14 <33	==	==	==
1,3-Dichlorobenzene/ppb	<30	==	==	==
1,2-Dichlorobenzene/ppb	<38	==	==	==
Dichlorodifluoromethane/ppb	<57	==	==	==
1,2-Dichloroethane/ppb	<36	4.9	600	540
1,1-Dichloroethane/ppb	<19	==	200 CO	==
1,1-Dichloroethene/ppb	<21	==	==	<b>=</b>
cis-1,2-Dichloroethene/ppb	<24	==	==	==
trans-1,2-Dichloroethene/ppb	<29	==	==	==
1,2-Dichloropropane/ppb	<9.5	==	==	=
2,2-Dichloropropane/ppb	<46	==	==	222.000
1,3-Dichloropropane/ppb	<21 <11	==	==	==
Di-isopropyl ether/ppb EDB (1,2-Dibromoethane)/ppb	<20	 	==	==
Ethylbenzene/ppb	<10	2900	4600	7 == 1
Hexachlorobutadiene/ppb	<95	==	===	
Isopropylbenzene/ppb	<25	==	==	==
p-lsopropyltoluene/ppb	<31	==	==	==
Methylene chloride/ppb	<57	==	and hold	==
Methyl tert-butyl ether (MTBE)/ppb	<30	==	==	_ ==
Naphthalene/ppb	<114	==	2700	==
n-Propylbenzene/ppb	<24		==	==
1,1,2,2-Tetrachloroethane/ppb	<12	==	==	==
1,1,1,2-Tetrachloroethane/ppb	<23	==	==	==
Tetrachloroethene (PCE)/ppb	<49	1500	== T	<b>=</b> =
Toluene/ppb	<20	1500	38000	] ==
1,2,4-Trichlorobenzene/ppb	<79	==	==	==
1,2,3-Trichlorobenzene/ppb 1,1,1-Trichloroethane/ppb	<129 <38	==	==	==
1,1,2-Trichloroethane/ppb	<23	==		<del></del>
Trichloroethene (TCE)/ppb	<28		==	==
Trichlorofluoromethane/ppb	<86	==	==	==
1,2,4-Trimethylbenzene/ppb	<26	==	83000	7 ==
1,3,5-Trimethylbenzene/ppb	<26	===	11000	<b>=</b>
Vinyl Chloride/ppb	<21	==	==	<b>-</b>
m&p-Xylene/ppb	<68			==
o-Xylene/ppb	<31	4100	42000	==

<sup>= =</sup> No Exceedences

NS = Not Sampled

### Geoprobe Groundwater Analytical Results Summary Lueptow Property LUST Site BRRTS# 03-06-000583

Sample		Lead	DRO	GRO	1	Ethyl		Naph-	1	Trimethyl-	Xylene	Other VOC's
ID	Date	(ppm)	(ppm)	(ppm)	Benzene	Benzene	MTBE	thalene	Toluene	benzenes	(Total)	(ppb)
					(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	
G-1-W	04/15/13	NS	NS	NS	<0.24	< 0.55	<0.23	<1.7	<0.69	<3.6	<1.32	NS
G-2-W	04/15/13	NS	NS	NS	<0.24	<0.55	<0.23	<1.7	<0.69	<3.6	<1.32	l NS
G-3-W	04/15/13	NS	NS	NS	<0.24	< 0.55	<0.23	<1.7	<0.69	<3.6	<1.32	l NS
G-4-W	04/15/13	NS	NS	NS	<0.24	<0.55	<0.23	<1.7	<0.69	<3.6	<1.32	l NS
G-5-W	04/15/13	NS	NS	l NS	<0.24	< 0.55	<0.23	<1.7	<0.69	<3.6	<1.32	l NS
G-6-W	04/15/13	NS	NS	l NS	<0.24	<0.55	<0.23	<1.7	<0.69	<3.6	<1.32	NS
G-7-W	04/15/13	NS	NS	NS NS	<0.24	< 0.55	<0.23	<1.7	<0.69	<3.6	<1.32	l NS
G-8-W	04/15/13	NS	NS	l NS	<0.24	<0.55	<0.23	<1.7	<0.69	<3.6	<1.32	l NS
G-9-W	04/15/13	NS	NS	NS	<0.24	< 0.55	<0.23	<1.7	<0.69	<3.6	<1.32	NS
G-10-W	04/15/13	NS	NS	NS	<0.24	<0.55	<0.23	<1.7	<0.69	<3.6	<1.32	l NS
POTABLE WELL	04/15/13	NS	NS	NS NS	<0.24	<0.27	<0.26	<0.49	<0.24	<0.57	<0.94	SEE VOC SPREAD- SHEET
	ENT STANDARD <b>ES = Bold</b>	15	-	-	5	700	60	100	800	480	2000	
PREVENTIVE Italics	ACTION LIMIT <i>PAL</i> =	1.5	-	~	0.5	140	12	10	160	96	400	

NS = Not Sampled

(ppm) = parts per million

(ppb) = parts per billion (ppd DRO = Diesel Range Organics

GRO = Gasoline Range Organics

#### Groundwater Analytical Results Summary Lueptow Property LUST Site BRRTS# 03-06-000583

Well Sampling Conducted on May 23, 2011

		ENFORCE MENT STANDARD =	PREVENTIVE ACTION LIMIT =
VOC's		ES Bold	PAL - Italics
Well Name	POTABLE WELL		
Benzene/ppb	<0.24	5	0.5
Bromobenzene/ppb	< 0.33	==	==
Bromodichloromethane/ppb	<0.27	==	==
Bromoform/ppb	<0.34	==	Apart Made qualification
Bromomethane/ppb	<0.98	==	==
Carbon Tetrachloride/ppb	< 0.25	==	==
Chlorobenzene/ppb	<0.24	==	==
Chloroethane/ppb	< 0.62	==	==
Chloroform/ppb	<0.28	==	==
Chloromethane/ppb	<0.81	== -	• ==
2-Chlorotoluene/ppb	< 0.35	==	==
4-Chlorotoluene/ppb	<0.29	==	mm mm
Dibromochloromethane/ppb	<0.2	==	get on
Dibromoethane/ppb	<0.41	==	==
1,4-Dichlorobenzene/ppb	<0.25	==	==
1,3-Dichlorobenzene/ppb	< 0.3	==	==
1,2-Dichlorobenzene/ppb	<0.28	==	==
Dichlorodifluoromethane/ppb	<0.27	==	==
1,2-Dichloroethane/ppb	<0.41	==	==
1,1-Dichloroethane/ppb	<0.3	==	==
1,1-Dichloroethene/ppb	<0.31	5	0.5
cis-1,2-Dichloroethene/ppb	<0.32		==
trans-1,2-Dichloroethene/ppb	<0.25	==	==
1,2-Dichloropropane/ppb	<0.32		==
2,2-Dichloropropane/ppb	< 0.45		===
1,3-Dichloropropane/ppb	<0.26	==	==
trans-1,2-Dichloropropene/ppb	<0.22	120 CE	<b>122</b>
cis-1,2-Dichloropropene/ppb	<0.2	==	==
1,1-Dichloropropene/ppb	<0.34	==	==
Ethylbenzene/ppb	<0.27	0.05	0.005
Hexachlorobutadiene/ppb	<0.48	700	140
Isopropylbenzene/ppb	<0.3	==	==
p-lsopropyltoluene/ppb	<0.3	==	==
Methylene chloride/ppb	<0.35	==	==
Methyl tert-butyl ether (MTBE)/ppb	<0.26	==	==
Naphthalene/ppb	<0.49	60	12
Styrene/ppb	<0.23	100	10
1,1,2,2-Tetrachloroethane/ppb	<0.45	==	==
1,1,1,2-Tetrachloroethane/ppb	<0.29	==	==
Tetrachloroethene (PCE)/ppb	<0.27	==	==
Toluene/ppb	<0.24	5	0.5
1,2,4-Trichlorobenzene/ppb	<0.24	800	160
1,1,1-Trichloroethane/ppb	<0.33	==	<u> </u>
1,1,2-Trichloroethane/ppb	<0.34	==	==
Trichloroethene (TCE)/ppb	<0.3	==	===
Trichlorofluoromethane/ppb	<0.26	==	==
1,2,3-Trichloropropane/ppb	<0.91	5	0.5
Trichlorotrifluoroethane/ppb	<0.41	==	
	<0.41		
1,2,4-Trimethylbenzene/ppb 1,3,5-Trimethylbenzene/ppb	<0.31	480	96
• • • • • • • • • • • • • • • • • • • •	<0.18	### ##################################	90
Vinyl Chloride/ppb			<del></del>
m&p-Xylene/ppb	< 0.69	2000	400
o-Xylene/ppb	<0.25	2000	400

NS = not sampled, NM = Not Measured

Q = Analyte detected above laboratory method detection limit but below practical quantitation limit.

<sup>= =</sup> No Exceedences

<sup>(</sup>ppb) = parts per billion

### **APPENDIX A/ METHODS OF INVESTIGATION**

### **Geoprobe Project**

Geoprobe sampling was completed by Geiss Soil & Samples, LLC. Of Merrill, Wisconsin, under the direction and supervision of METCO personnel. The Geoprobe consists of a truck-mounted, hydraulically driven unit that advances interconnected, 1-inch diameter, 3 foot long, 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 DL 102 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.

### 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 during the geoprobe project.

APPENDIX B/ ANALYTICAL METHODS & LABORATORY DATA REPORTS

# Synergy Environmental Lab, 1990 Prospect Ct., Appleton, WI 54914 \*P 920-830-2455 \*\* E 1990-1990-1990

LISA LISOWSKI LISA LISOWSKI W448 COUNTY ROAD Z MONDOVI, WI 54755

Report Date 01-May-13

Project Name I Project #	LUEPTOW P	ROPERTY					Invoi	<b>ce</b> # F2504	5		
Lab Code Sample ID Sample Matrix Sample Date	5025045A MEOH BLA Soil 4/15/2013	ANK									
•		Result	Unit	LOD LO	OQ D	il	Method	Ext Date	Rua Date	Analyst	Code
Organic					_				•		
GRO/PVOC +	Naphthalene									A 1	
Gasoline Range Org Benzene Ethylbenzene Methyl tert-butyl et Naphthalene Toluene 1,2,4-Trimethylben: m&p-Xylene o-Xylene Lab Code Sample ID	ganics her (MTBE) zene zene 5025045B G-1-1	< 10 < 25 < 25 < 25 < 25 < 25 < 25 < 25 < 25	mg/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	2.3 7.9 7.7 8.1 22 8.4 10 9.3 16	7.3 25 25 26 70 27 33 30 50 32	1 1 1 1 1 1 1 1 1	GRO95/8021 GRO95/8021 GRO95/8021 GRO95/8021 GRO95/8021 GRO95/8021 GRO95/8021 GRO95/8021 GRO95/8021 GRO95/8021		4/26/2013 4/26/2013 4/26/2013 4/26/2013 4/26/2013 4/26/2013 4/26/2013 4/26/2013 4/26/2013	CJR CJR CJR CJR CJR CJR CJR CJR CJR CJR	the first two cases were the case and the case of
Sample Matrix											
Sample Date	4/15/2013										
		Result	Unit	LOD LO	DQ D	il	Method	Ext Date	Run Date	Analyst	Code
General General Solids Percent Inorganic		85.8	%			1	5021		4/20/2013	MDK.	-1
Metals Lead, Total Organic		12.1	mg/kg	0.6	1.92	2	SW846 7421		4/23/2015	ÇVAT	1
GRO/PVOC + Gasoline Range Org Benzene Ethylbenzene Methyl tert-butyl et Naphthalene	ganics	< 10 < 25 < 25 < 25 < 25	mg/kg ug/kg ug/kg ug/kg ug/kg	2.3 7.9 7.7 8.1 22	7.3 25 25 26 70	1 1 1 1	GRO95/8021 GRO95/8021 GRO95/8021 GRO95/8021 GRO95/8021		4/26/2013 4/26/2013 4/26/2013 4/26/2013 4/26/2013	OM CIR CIR CIR CIR	and deat and brown

Project Name	LUEPTOW PROPERTY	Invoice #	E25045
Dwg iggt #			

Project #	ECLI IOW I	ROI LICI I				111101	EE II EE S	15		
Lab Code Sample ID Sample Matrix Sample Date	5025045B G-1-1 Soil 4/15/2013									
Toluene 1,2,4-Trimethylben 1,3,5-Trimethylben m&p-Xylene o-Xylene		<pre>Result</pre>	Unit ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	8.4 10 9.3 16 10	27 1 33 1 30 1 50 1 32 1	Method GRO95/8021 GRO95/8021 GRO95/8021 GRO95/8021 GRO95/8021	Ext Date	Run Date 4/26/2013 4/26/2013 4/26/2013 4/26/2013	Analyst CJR CJR CJR CJR CJR CJR	Code
Lab Code Sample ID Sample Matrix Sample Date	5025045C G-1-2 Soil 4/15/2013									
		Result	Unit	LOD LO	Q Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General Solids Percent		90.6	%		1	5021		4/20/2013	MDK	1
Organic		30.0	/0		1	3021		4/20/2013	MDK	1
GRO/PVOC +	Naphthalene	÷								
Gasoline Range Or Benzene Ethylbenzene Methyl tert-butyl et Naphthalene Toluene 1,2,4-Trimethylben 1,3,5-Trimethylben m&p-Xylene o-Xylene	ganics ther (MTBE) zene	<10 <25 <25 <25 <25 <25 <25 <25 <25 <25 <25	mg/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	2.3 7.9 7.7 8.1 22 8.4 10 9.3 16	7.3 I 25 I 25 I 26 I 70 I 27 I 33 I 30 I 50 I 32 I	GRO95/8021 GRO95/8021 GRO95/8021 GRO95/8021 GRO95/8021 GRO95/8021 GRO95/8021 GRO95/8021 GRO95/8021 GRO95/8021		4/26/2013 4/26/2013 4/26/2013 4/26/2013 4/26/2013 4/26/2013 4/26/2013 4/26/2013 4/26/2013	CJR	1 1 1 1 1 1 1 1 1
Lab Code Sample ID Sample Matrix Sample Date	5025045D G-1-3 Soil 4/15/2013	Result	Unit	LOD LO	OQ Dil	Method	Ext Date	Run Date	Analyst	Code
General										

•	Result	Unit	LOD LO	OQ D	il	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	87.2	%			1	5021		4/20/2013	MDK	1
Organic										
GRO/PVOC + Naphthaler	ne									
Gasoline Range Organics	< 10	mg/kg	2.3	7.3	1	GRO95/8021		4/26/2013	CJR	1
Benzene	< 25	ug/kg	7.9	25	1	GRO95/8021		4/26/2013	CJR	1
Ethylbenzene	< 25	ug/kg	7.7	25	1	GRO95/8021		4/26/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		4/26/2013	CJR	1
Naphthalene	< 25	ug/kg	22	70	1	GRO95/8021		4/26/2013	CJR	1
Toluene	< 25	ug/kg	8.4	27	1	GRO95/8021		4/26/2013	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	10	33	1	GRO95/8021		4/26/2013	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	9.3	30	1	GRO95/8021		4/26/2013	CJR	1
m&p-Xylene	< 50	ug/kg	16	50	1	GRO95/8021		4/26/2013	CJR	1
o-Xylene	< 25	ug/kg	10	32	1	GRO95/8021		4/26/2013	CJR	1

**Project Name** LUEPTOW PROPERTY **Project** #

Lab Code

5025045E

Sample ID

G-2-1

Sample Matrix Soil
Sample Date 4/15/

4/15/2013

Sample Date 4/13/2013										
	Result	Unit	LOD L	OQ D	il	Method	Ext Date	Run Date	Analyst	Code
General									•	
General										
Solids Percent	95.6	%			1	5021		4/20/2013	MDK	1
Inorganic	7 - 1 -	, ,			•	3021		4/20/2013	MDK	1
Metals										
Lead, Total	40.2	/1	0.6		_					
· ·	49.2	mg/kg	0.6	1.92	2	SW846 7421		4/23/2013	CWT	1
Organic										
General										
Gasoline Range Organics	< 10	mg/kg	2.3	7.3	1	GRO95/8021		4/26/2013	CJR	1
VOC's										
Benzene	< 9.2	ug/kg	9.2	29	1	8260B		4/29/2013	CJR	1
Bromobenzene	< 13	ug/kg	13	40	1	8260B		4/29/2013	CJR	1
Bromodichloromethane	< 27	ug/kg	27	85	1	8260B		4/29/2013	CJR	1
Bromoform	< 30	ug/kg	30	95	1	8260B		4/29/2013	CJR	1
tert-Butylbenzene	< 20	ug/kg	20	64	1	8260B		4/29/2013	CJR	1
sec-Butylbenzene	< 41	ug/kg	41	132	1	8260B		4/29/2013	CJR	1
n-Butylbenzene	< 26	ug/kg	26	82	1	8260B		4/29/2013	CJR	1
Carbon Tetrachloride Chlorobenzene	< 25	ug/kg	25	79	1	8260B		4/29/2013	CJR	1
Chloroethane	< 16 < 42	ug/kg	16	52	1	8260B		4/29/2013	CJR	1
Chlorofonn	< 42 < 49	ug/kg	42	133	1	8260B		4/29/2013	CJR	1
Chloromethane	< 181	ug/kg	49	157	1	8260B		4/29/2013	CJR	1
2-Chlorotoluene	< 161	ug/kg ug/kg	181 16	577 52	1 1	8260B		4/29/2013	CJR	1
4-Chlorotoluene	< 14	ug/kg ug/kg	14	43	1	8260B 8260B		4/29/2013	CJR	1
1,2-Dibromo-3-chloropropane	< 48	ug/kg	48	154	1	8260B		4/29/2013	CJR CJR	1
Dibromochloromethane	< 14	ug/kg	14	45	1	8260B		4/29/2013 4/29/2013	CJR CJR	1
1,4-Dichlorobenzene	< 33	ug/kg	33	103	1	8260B		4/29/2013	CJR	1
1,3-Dichlorobenzene	< 30	ug/kg	30	95	1	8260B		4/29/2013	CJR CJR	1
1,2-Dichlorobenzene	< 38	ug/kg	38	122	1	8260B		4/29/2013	CJR	1
Dichlorodifluoromethane	< 57	ug/kg	57	182	1	8260B		4/29/2013	CJR	1
1,2-Dichloroethane	< 36	ug/kg	36	114	1	8260B		4/29/2013	CJR	i
1,1-Dichloroethane	< 19	ug/kg	19	60	1	8260B		4/29/2013	CJR	1
1,1-Dichloroethene	< 21	ug/kg	21	66	1	8260B		4/29/2013	CJR	1
cis-1,2-Dichloroethene	< 24	ug/kg	24	77	1	8260B		4/29/2013	CJR	1
trans-1,2-Dichloroethene	< 29	ug/kg	29	93	1	8260B		4/29/2013	CJR	1
1,2-Dichloropropane	< 9.5	ug/kg	9.5	30	1	8260B		4/29/2013	CJR	1
2,2-Dichloropropane	< 46	ug/kg	46	148	1	8260B		4/29/2013	CJR	1
1,3-Dichloropropane	< 21	ug/kg	21	68	1	8260B		4/29/2013	CJR	1
Di-isopropyl ether	< 11	ug/kg	11	34	1	8260B		4/29/2013	CJR	1
EDB (1,2-Dibromoethane)	< 20 < 10	ug/kg	20	64	1	8260B		4/29/2013	CJR	1
Ethylbenzene Hexachlorobutadiene	< 95	ug/kg	10	33	1	8260B		4/29/2013	CJR	1
Isopropylbenzene	< <b>2</b> 5	ug/kg ug/kg	95 25	304 80	1 1	8260B 8260B		4/29/2013	CJR	1
p-Isopropyltoluene	< 31	ug/kg ug/kg	31	98	1	8260B		4/29/2013	CJR CJR	l 1
Methylene chloride	< 57	ug/kg	57	182	1	8260B		4/29/2013	CJR CJR	1
Methyl tert-butyl ether (MTBE)	< 30	ug/kg	30	96	1	8260B		4/29/2013 4/29/2013	CJR CJR	1
Naphthalene	< 114	ug/kg	114	363	1	8260B		4/29/2013	CJR CJR	1
n-Propylbenzene	< 24	ug/kg	24	75	1	8260B		4/29/2013	CJR	1
1,1,2,2-Tetrachloroethane	< 12	ug/kg	12	38	1	8260B		4/29/2013	CJR	1
1,1,1,2-Tetrachloroethane	< 23	ug/kg	23	74	1	8260B		4/29/2013	CJR	1
Tetrachloroethene	< 49	ug/kg	49	157	1	8260B		4/29/2013	CJR	1
Toluene	< 20	ug/kg	20	65	1	8260B		4/29/2013	CJR	i
1,2,4-Trichlorobenzene	< 79	ug/kg	79	251	1	8260B		4/29/2013	CJR	1
1,2,3-Trichlorobenzene	< 129	ug/kg	129	411	1	8260B		4/29/2013	CJR	i
1,1,1-Trichloroethane	< 38	ug/kg	38	120	1	8260B		4/29/2013	CJR	i
1,1,2-Trichloroethane	< 23	ug/kg	23	74	1	8260B		4/29/2013	CJR	1
Trichloroethene (TCE)	< 28	ug/kg	28	88	1	8260B		4/29/2013	CJR	1

Project #

Lab Code5025045ESample IDG-2-1Sample MatrixSoilSample Date4/15/2013

	Result	Unit	LOD I	LOQ D	il	Method	Ext Date	Run Date	Analyst	Code	
Trichlorofluoromethane	< 86	ug/kg	86	273	1	8260B		4/29/2013	CJR	1	
1,2,4-Trimethylbenzene	< 26	ug/kg	26	81	1	8260B		4/29/2013	CJR	1	
1,3,5-Trimethylbenzene	< 26	ug/kg	26	84	1	8260B		4/29/2013	CJR	1	
Vinyl Chloride	< 21	ug/kg	21	66	1	8260B		4/29/2013	CJR	1	
m&p-Xylene	< 68	ug/kg	68	216	1	8260B		4/29/2013	CJR	1	
o-Xylene	< 31	ug/kg	31	98	1	8260B		4/29/2013	CJR	1	
SUR - 1,2-Dichloroethane-d4	97	Rec %			1	8260B		4/29/2013	CJR	1	
SUR - 4-Bromofluorobenzene	107	Rec %			1	8260B		4/29/2013	CJR	i	
SUR - Dibromofluoromethane	95	Rec %			1	8260B		4/29/2013	CJR	1	
SUR - Toluene-d8	94	Rec %			1	8260B		4/29/2013	CJR	1	

Lab Code5025045FSample IDG-2-2Sample MatrixSoilSample Date4/15/2013

	Result	Unit	LOD LOQ Dil Met		Method	Ext Date	Run Date Analyst		Code	
General										
General										
Solids Percent	98.0	%			1	5021		4/20/2013	MDK	1
Organic										
GRO/PVOC + Naphthaler	ne									
Gasoline Range Organics	< 10	· mg/kg	2.3	7.3	1	GRO95/8021		4/26/2013	CJR	1
Benzene	< 25	ug/kg	7.9	25	1	GRO95/8021		4/26/2013	CJR	1
Ethylbenzene	< 25	ug/kg	7.7	25	1	GRO95/8021		4/26/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		4/26/2013	CJR	1
Naphthalene	< 25	ug/kg	22	70	1	GRO95/8021		4/26/2013	CJR	1
Toluene	< 25	ug/kg	8.4	27	1	GRO95/8021		4/26/2013	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	10	33	1	GRO95/8021		4/26/2013	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	9.3	30	1	GRO95/8021		4/26/2013	CJR	1
m&p-Xylene	< 50	ug/kg	16	50	1	GRO95/8021		4/26/2013	CJR	1
o-Xylene	< 25	ug/kg	10	32	1	GRO95/8021		4/26/2013	CJR	1

Lab Code5025045GSample IDG-2-3Sample MatrixSoilSample Date4/15/2013

Sample Date	4/13/2013										
-		Result	Unit	LOD LOQ Dil			Method	Ext Date	Run Date Analyst		Code
General											
General											
Solids Percent		90.0	%			1	5021		4/20/2013	MDK	1
Organic											
GRO/PVOC -	+ Naphthalen	e									
Gasoline Range O	rganics	< 10	mg/kg	2.3	7.3	1	GRO95/8021		4/26/2013	CJR	1
Benzene		< 25	ug/kg	7.9	25	1	GRO95/8021		4/26/2013	CJR	1
Ethylbenzene		< 25	ug/kg	7.7	25	1	GRO95/8021		4/26/2013	CJR	I
Methyl tert-butyl	ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		4/26/2013	CJR	1
Naphthalene		< 25	ug/kg	22	70	1	GRO95/8021		4/26/2013	CJR	1
Toluene		< 25	ug/kg	8.4	27	1	GRO95/8021		4/26/2013	CJR	1
1,2,4-Trimethylbe	nzene	< 25	ug/kg	10	33	1	GRO95/8021		4/26/2013	CJR	1
1,3,5-Trimethylbe	nzene	< 25	ug/kg	9.3	30	1	GRO95/8021		4/26/2013	CJR	1
m&p-Xylene		< 50	ug/kg	16	50	1	GRO95/8021		4/26/2013	CJR	1
o-Xylene		< 25	ug/kg	10	32	1	GRO95/8021		4/26/2013	CJR	1

Project Name LUEPTOW PROPERTY Invoice # E25045

Project #

Lab Code5025045HSample IDG-2-4Sample MatrixSoilSample Date4/15/2013

Sample Matrix	Soil									
Sample Date	4/15/2013									
0 1		Result	Unit	LOD I	LOQ Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent		94.1	%		1	5021		4/20/2013	MDK	1
Organic	NI 1- 41 1	_								
GRO/PVOC + Gasoline Range Org		e < 10	/1 .	2.2	7.2	GD 005/0001			a.m.	
Benzene	games	< 25	mg/kg ug/kg	2.3 7.9	7.3 1 25 1			4/26/2013 4/26/2013	CJR CJR	1
Ethylbenzene		< 25	ug/kg	7.7	25 1			4/26/2013	CJR	j
Methyl tert-butyl et	her (MTBE)	< 25	ug/kg	8.1	26 1			4/26/2013	CJR	1
Naphthalene Toluene		< 25 < 25	ug/kg	22	70 1			4/26/2013	CJR	1
1,2,4-Trimethylben:	zene	< 25	ug/kg ug/kg	8.4 10	27 1 33 1			4/26/2013 4/26/2013	CJR CJR	1 1
1,3,5-Trimethylben		< 25	ug/kg	9.3	30 1			4/26/2013	CJR	î
m&p-Xylene		< 50	ug/kg	16	50 1			4/26/2013	CJR	1
o-Xylene		< 25	ug/kg	10	32 1	GRO95/8021		4/26/2013	CJR	1
Lab Code	5025045I									
Sample ID	G-2-5									
Sample Matrix										
Sample Date	4/15/2013									
~ .		Result	Unit	LOD I	LOQ Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General		00.4	•							
Solids Percent		88.4	%		1	5021		4/20/2013	MDK	1
Organic GRO/PVOC +	Nanhthalana	<b>a</b>								
Gasoline Range Org		< 10	mg/kg	2.3	7.3 1	GRO95/8021		4/26/2013	CJR	1
Benzene	Barnes	< 25	ug/kg	7.9	25 1			4/26/2013	CJR	1
Ethylbenzene		< 25	ug/kg	7.7	25 1			4/26/2013	CJR	1
Methyl tert-butyl et Naphthalene	her (MTBE)	< 25 < 25	ug/kg ug/kg	8.1 22	26 1 70 1			4/26/2013	CJR	1
Toluene		< 25	ug/kg	8.4	27 1			4/26/2013 4/26/2013	CJR CJR	1
1,2,4-Trimethylben		< 25	ug/kg	10	33 1			4/26/2013	CJR	1
1,3,5-Trimethylben	zene	< 25 < 50	ug/kg	9.3	30 1			4/26/2013	CJR	I
m&p-Xylene o-Xylene		< 25	ug/kg ug/kg	16 10	50 l 32 l			4/26/2013 4/26/2013	CJR CJR	1 1
-	50250451		-66			GR(0)3/0021		112012013	CSIC	
Lab Code Sample ID	5025045J G-2-6									
	Soil									
Sample Matrix Sample Date	4/15/2013							•		
Sample Date	4/13/2013	Result	Unit	TOD 1	LOQ Dil	Method	Ext Data	Dun Data	Analyst	Codo
General		Acoust	Omt	LOD I	ווע סטנ	Methou	Ext Date	Run Date	Anaiyst	Coue
General										
Solids Percent		86.5	%		1	5021		4/20/2013	MDK	1
Organic		00.0	, ,		•	3021		1/20/2015	mbit	•
GRO/PVOC +	Naphthalene	e								
Gasoline Range Org		< 10	mg/kg	2.3	7.3 1	GRO95/8021		4/26/2013	CJR	1
Benzene		< 25	ug/kg	7.9	25 1			4/26/2013	CJR	1
Ethylbenzene Methyl tert-butyl et	her (MTDE)	< 25 < 25	ug/kg	7.7	25 l			4/26/2013	CJR	1
Naphthalene	noi (IVI I DE)	< 25 < 25	ug/kg ug/kg	8.1 22	26 l 70 l			4/26/2013 4/26/2013	CJR CJR	1 1
Toluene		< 25	ug/kg	8.4	27 1			4/26/2013	CJR	1

Project Name       Project #	LUEPTOW I	PROPERTY Invoice # E25045								
Lab Code Sample ID Sample Matrix Sample Date 1,2,4-Trimethylben 1,3,5-Trimethylben		<b>Result</b> < 25 < 25	Unit ug/kg ug/kg	LOD LO 10 9.3	OQ <b>Dil</b> 33 1 30 1		Ext Date	Run Date 4/26/2013 4/26/2013	<b>Analyst</b> CJR CJR	Code !
m&p-Xylene o-Xylene	zene	< 50 < 25	ug/kg ug/kg ug/kg	16 10	50 1 32 1	GRO95/8021		4/26/2013 4/26/2013	CJR CJR	l I
Lab Code Sample ID Sample Matrix Sample Date	5025045K G-3-1 Soil 4/15/2013									
General		Result	Unit	LOD LO	OQ Dil	Method	Ext Date	Run Date	Analyst	Code
General										
Solids Percent Inorganic Metals		91.0	%		1	5021		4/20/2013	MDK	1
Lead, Total		4.98	mg/kg	0.6	1.92 2	SW846 7421		4/23/2013	CWT	1
Organic										
GRO/PVOC+	•									
Gasoline Range Or	ganics	< 10	mg/kg	2.3	7.3 1			4/26/2013	CJR CJR	I
Benzene Ethylbenzene		< 25 < 25	ug/kg ug/kg	7.9 7.7	25 1 25 1			4/26/2013 4/26/2013	CJR CJR	1 1
Methyl tert-butyl et	ther (MTBE)	< 25	ug/kg	8.1	26 1			4/26/2013	CJR	i
Naphthalene		< 25	ug/kg	22	70 1			4/26/2013	CJR	1
Toluene		< 25	ug/kg	8.4	27 1			4/26/2013	CJR	1
1,2,4-Trimethylben 1,3,5-Trimethylben		< 25 < 25	ug/kg ug/kg	10 9.3	33 1 30 1			4/26/2013 4/26/2013	CJR CJR	1 1
m&p-Xylene	Zene	< 50	ug/kg	16	50 1			4/26/2013	CJR	1
o-Xylene		< 25	ug/kg	10	32 1	GRO95/8021		4/26/2013	CJR	1
Lab Code Sample ID Sample Matrix Sample Date	5025045L G-3-2 Soil 4/15/2013									
•		Result	Unit	LOD LO	OQ Dil	Method	Ext Date	Run Date	Analyst	Code
General					=				•	
General										
Solids Percent		96.6	%		1	5021		4/20/2013	MDK	1
Organic GRO/PVOC +	-									
Gasoline Range Or	ganics	< 10 < 25	mg/kg ug/kg	2.3 7.9	7.3 1 25 1			4/26/2013 4/26/2013	CJR CJR	I
Benzene Ethylbenzene		< 25 < 25	ug/kg ug/kg	7.9 7.7	25 1 25 1			4/26/2013	CJR	1
Methyl tert-butyl ether (MTBE)		< 25	ug/kg	8.1	26 1			4/26/2013	CJR	1
Naphthalene		< 25	ug/kg	22	70 1			4/26/2013	CJR	1
Toluene	<b>5</b> 000	< 25	ug/kg	8.4	27 1			4/26/2013	CJR	1
1,2,4-Trimethylben 1,3,5-Trimethylben		< 25 < 25	ug/kg ug/kg	10 9.3	33 1 30 1			4/26/2013 4/26/2013	CJR CJR	1
m&p-Xylene		< 50	ug/kg	16	50 1	GRO95/8021		4/26/2013	CJR	1
o-Xylene		< 25	ug/kg	10	32 1	GRO95/8021		4/26/2013	CJR	1

**Project Name** LUEPTOW PROPERTY Invoice # E25045 Project #

Lab Code 5025045M G-3-3 Sample ID G-3-3 Sample Matrix Soil

Sample Matrix											
Sample Date	4/15/2013										
		Result	Unit	LOD LO	OQ Di	l	Method	Ext Date	Run Date	Analyst	Code
General											
General											
Solids Percent		88.7	%			1	5021		4/20/2013	MDK	1
Organic											
GRO/PVOC +	Naphthalene	2									
Gasoline Range Org		< 10	mg/kg	2.3	7.3	1	GRO95/8021		4/26/2013	CJR	1
Benzene		< 25	ug/kg	7.9	25	1	GRO95/8021		4/26/2013	CJR	i
Ethylbenzene		< 25	ug/kg	7.7	25	1	GRO95/8021		4/26/2013	CJR	1
Methyl tert-butyl et	her (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		4/26/2013	CJR	1
Naphthalene Tolyana		< 25	ug/kg	22	70 27	1	GRO95/8021		4/26/2013	CJR	1
Toluene 1,2,4-Trimethylben:	zene	< 25 < 25	ug/kg ug/kg	8.4 10	27 33	1 1	GRO95/8021 GRO95/8021		4/26/2013 4/26/2013	CJR CJR	1
1,3,5-Trimethylben		< 25	ug/kg	9.3	30	1	GRO95/8021		4/26/2013	CJR	1
m&p-Xylene		< 50	ug/kg	16	50	ì	GRO95/8021		4/26/2013	CJR	1
o-Xylene		< 25	ug/kg	10	32	1	GRO95/8021		4/26/2013	CJR	1
Lab Code	5025045N										
Sample ID	G-4-1										
-	Soil										
Sample Date	4/15/2013										
Sample Date	4/13/2013	Result	Unit	LOD LO	oo na	1	Method	Ext Data	Run Date	Analyst	Codo
General		Result	Onit	LOD LO	JŲ DI	ı	Method	Ext Date	Run Date	Anaryst	Coue
General											
Solids Percent		02.0	%			,	5021		4/00/0012	MDW	,
Inorganic		82.0	70			l	5021		4/20/2013	MDK	1
Metals											
Lead, Total		6.85	mg/kg	0.6	1.92	2	SW846 7421		4/23/2013	CWT	1
Organic		0.65	mg/kg	0.0	1.72	2	3W04U /421		4/23/2013	CWI	1
GRO/PVOC +	Nanhthalana	<b>a</b>									
Gasoline Range Or		< 10	mg/kg	2.3	7.3	1	GRO95/8021		4/26/2013	CJR	1
Benzene	games	< 25	ug/kg	7.9	25	1	GRO95/8021		4/26/2013	CJR	1
Ethylbenzene		< 25	ug/kg	7.7	25	i	GRO95/8021		4/26/2013	CJR	ì
Methyl tert-butyl et	her (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		4/26/2013	CJR	1
Naphthalene		< 25	ug/kg	22	70	1	GRO95/8021		4/26/2013	CJR	1
Toluene		< 25	ug/kg	8.4	27	1	GRO95/8021		4/26/2013	CJR	1
1,2,4-Trimethylben 1,3,5-Trimethylben		< 25 < 25	ug/kg ug/kg	10 9.3	33 30	1 1	GRO95/8021 GRO95/8021		4/26/2013 4/26/2013	CJR CJR	1 1
m&p-Xylene	Zene	< 50	ug/kg	16	50	1	GRO95/8021		4/26/2013	CJR	1
o-Xylene		< 25	ug/kg	10	32	1	GRO95/8021		4/26/2013	CJR	1
Lab Code	50250450										
	G-4-2										
Sample ID											
Sample Matrix											
Sample Date	4/15/2013	D14	TT 24	IOD I	00 D	.,	Mr. 41 3	E-4 D-4	D D (		<b>C</b> 1
~ .		Result	Unit	LOD LO	UQ Di	II.	Method	Ext Date	Run Date	Analyst	Code
General											
General											
Solids Percent		96.6	%			1	5021		4/20/2013	MDK	1
Organic											
GRO/PVOC+	Naphthalene	e									
Gasoline Range Or	ganics	< 10	mg/kg	2.3	7.3	1	GRO95/8021		4/26/2013	CJR	1
Benzene		< 25	ug/kg	7.9	25	1	GRO95/8021		4/26/2013	CJR	1

27

33 1

30

50

32

1

1

1

8.4

10

9.3

16

10

ug/kg

ug/kg

ug/kg

ug/kg

ug/kg

< 25

< 25

< 25

< 50

< 25

Toluene

m&p-Xylene

o-Xylene

1,2,4-Trimethylbenzene

1,3,5-Trimethylbenzene

GRO95/8021

GRO95/8021

GRO95/8021

GRO95/8021

GRO95/8021

CJR

CJR

CJR

CJR

CJR

1

1

1

1

1

4/27/2013

4/27/2013

4/27/2013

4/27/2013

4/27/2013

**Project Name** LUEPTOW PROPERTY Invoice # E25045

Project #

5025045R G-4-5 Lab Code Sample ID Sample Matrix Soil

Sample Matrix											
Sample Date	4/15/2013										
		Result	Unit	LOD LO	OQ Dil		Method	Ext Date	Run Date	Analyst	Code
General								2.00	21411 2 411	1 22141 ) 50	Couc
General											
Solids Percent		87.5	%		1	1	5021		4/20/2012	1.001	,
Organic		07.5	/0		1	1	5021		4/20/2013	MDK	1
_	NT 1.41 1										
GRO/PVOC +											
Gasoline Range Org Benzene	ganics	< 10	mg/kg	2.3		1	GRO95/8021		4/30/2013	CJR	1
Ethylbenzene		< 25 < 25	ug/kg	7.9 7.7		1	GRO95/8021		4/30/2013	CJR	1
Methyl tert-butyl et	her (MTBF)	< 25	ug/kg ug/kg	8.1		l 1	GRO95/8021 GRO95/8021		4/30/2013 4/30/2013	CJR CJR	1 1
Naphthalene	ner (mr. bz)	< 25	ug/kg	22		1	GRO95/8021		4/30/2013	CJR	1
Toluene		< 25	ug/kg	8.4		1	GRO95/8021		4/30/2013	CJR	1
1,2,4-Trimethylben	zene	< 25	ug/kg	10		1	GRO95/8021		4/30/2013	CJR	1
1,3,5-Trimethylben	zene	< 25	ug/kg	9.3	30	1	GRO95/8021		4/30/2013	CJR	1
m&p-Xylene		< 50	ug/kg	16	50 1		GRO95/8021		4/30/2013	CJR	1
o-Xylene		< 25	ug/kg	10	32	1	GRO95/8021		4/30/2013	CJR	1
Lab Code	5025045S										
Sample ID	G-5-1										
Sample Matrix											
Sample Date	4/15/2013										
Sample Date	4/13/2013	Result	Unit	100 10	OO D:1		M . 41 J	E-4 D-4	D D (		<i>a</i> ,
O 1		Result	Omt	LOD LO	ווע טכ		Method	Ext Date	Run Date	Analyst	Code
General											
General											
Solids Percent		84.1	%		1	1	5021		4/20/2013	MDK	1
Inorganic											
Metals											
Lead, Total		7.29	mg/kg	0.6	1.92	2	SW846 7421		4/23/2013	CWT	1
Organic											
GRO/PVOC +	Naphthalene	•									
Gasoline Range Org	•	< 10	mg/kg	2.3	7.3	1	GRO95/8021		4/30/2013	CJR	1
Benzene	_	< 25	ug/kg	7.9	25	1	GRO95/8021		4/30/2013	CJR	i
Ethylbenzene		< 25	ug/kg	7.7		1	GRO95/8021		4/30/2013	CJR	1
Methyl tert-butyl et	her (MTBE)	< 25	ug/kg	8.1		1	GRO95/8021		4/30/2013	CJR	1
Naphthalene Toluene		< 25 < 25	ug/kg	22		1	GRO95/8021		4/30/2013	CJR	1
1,2,4-Trimethylben	7ene	< 25	ug/kg ug/kg	8.4 10		1 1	GRO95/8021 GRO95/8021		4/30/2013	CJR CJR	I 1
1,3,5-Trimethylben		< 25	ug/kg ug/kg	9.3		1	GRO95/8021		4/30/2013 4/30/2013	CJR	I I
m&p-Xylene		< 50	ug/kg	16		l	GRO95/8021		4/30/2013	CJR	1
o-Xylene		< 25	ug/kg	10		1	GRO95/8021		4/30/2013	CJR	î
Lab Code	5025045T										
Sample ID	G-5-2										
Sample Matrix											
Sample Date	4/15/2013										
		Result	Unit	LOD LO	OQ Dil		Method	Ext Date	Run Date	Analyst	Code
General											
General											
Solids Percent		87.1	%			1	5021		4/20/2013	MDK	I
Organic		· · · · ·	• •						25.2015		-
GRO/PVOC +	Naphthalene	<u>.</u>									
Gasoline Range Org		< 10	mg/kg	2.3	7.3	1	GRO95/8021		4/20/2012	CIP	1
Benzene	5411103	< 25	ug/kg	2.3 7.9		1	GRO95/8021		4/30/2013 4/30/2013	CJR CJR	1 1
			b' •• b		_=	•	_110,0,0021		17 307 2013		

50

32 1

GRO95/8021

GRO95/8021

16

10

ug/kg

ug/kg

m&p-Xylene

o-Xylene

< 50

< 25

CJR

CJR

1

1

4/30/2013

4/30/2013

Ø.											
Project Name ] Project #	LUEPTOW I	PROPERTY					Invoi	ce # E2504	45		
Lab Code Sample ID Sample Matrix Sample Date	5025045W G-6-1 Soil 4/15/2013										
		Result	Unit	LOD L	OQ D	il	Method	Ext Date	Run Date	Analyst	Code
General General											
Solids Percent		81.1	%			1	5021		4/20/2013	MDK	1
Inorganic											
Metals											
Lead, Total		8.37	mg/kg	0.6	1.92	2	SW846 7421		4/23/2013	CWT	1
Organic											
GRO/PVOC +	-										
Gasoline Range Org	ganics	< 10	mg/kg	2.3	7.3	1	GRO95/8021		4/30/2013	CJR	1
Benzene Ethylbenzene		< 25 < 25	ug/kg	7.9	25	1	GRO95/8021		4/30/2013	CJR	1
Methyl tert-butyl et	her (MTRF)	< 25 < 25	ug/kg ug/kg	7.7 8.1	25 26	1 1	GRO95/8021		4/30/2013	CJR	1
Naphthalene	nor (WIDE)	< 25	ug/kg ug/kg	22	70	1	GRO95/8021 GRO95/8021		4/30/2013	CJR	1
Toluene		< 25	ug/kg ug/kg	8.4	70 27	1	GRO95/8021		4/30/2013 4/30/2013	CJR CJR	1
1,2,4-Trimethylben:	zene	< 25	ug/kg	10	33	1	GRO95/8021		4/30/2013	CJR	1
1,3,5-Trimethylben		< 25	ug/kg	9.3	30	1	GRO95/8021		4/30/2013	CJR	1
m&p-Xylene		< 50	ug/kg	16	50	i	GRO95/8021		4/30/2013	CJR	1
o-Xylene		< 25	ug/kg	10	32	1	GRO95/8021		4/30/2013	CJR	1
Lab Code	5025045X										
Sample ID	G-6-3										
Sample Matrix	Soil										
Sample Date	4/15/2013										
<b>.</b>		Result	Unit	LOD L	00 D	il	Method	Ext Date	Run Date	Analyet	Codo
General			01110	LOD L	o Q D	••	Nethod	Ext Date	Run Date	Anaryst	Coue
General											
Solids Percent		91.4	%			1	5021		4/20/2013	MDK	1
Organic			,,			•	3021		4/20/2013	MDK	1
GRO/PVOC +	Naphthalene	e									
Gasoline Range Org	ganics	< 10	mg/kg	2.3	7.3	1	GRO95/8021		4/30/2013	CJR	1
Benzene		< 25	ug/kg	7.9	25	1	GRO95/8021		4/30/2013	CJR	Ī
Ethylbenzene		< 25	ug/kg	7.7	25	1	GRO95/8021		4/30/2013	CJR	1
Methyl tert-butyl et	her (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		4/30/2013	CJR	1
Naphthalene		< 25	ug/kg	22	70	1	GRO95/8021		4/30/2013	CJR	1
Toluene		< 25	ug/kg	8.4	27	1	GRO95/8021		4/30/2013	CJR	1
1,2,4-Trimethylben: 1,3,5-Trimethylben:		< 25	ug/kg	10	33	1	GRO95/8021		4/30/2013	CJR	1
m&p-Xylene	ZUIT	< 25 < 50	ug/kg	9.3 16	30 50	1 1	GRO95/8021		4/30/2013	CJR	1
o-Xylene		< 25	ug/kg ug/kg	10	32	1	GRO95/8021 GRO95/8021		4/30/2013	CJR CJR	l
I ah Cada	5025045V	- <b>2</b> .5	46/14	10	32	1	JKU/J/0021		4/30/2013	CIK	1

Lab Code 5025045Y
Sample ID G-6-5
Sample Matrix Soil
Sample Date 4/15/2013

	Result	Unit	LOD	LOQ	Di	l	Method	Ext Date	Run Date	Analyst	Code	
										-		
	86.9	%				1	5021		4/20/2013	MDK	1	
Naphthalene	е											
ganics	< 10	mg/kg	2.	3 7	.3	1	GRO95/8021		4/30/2013	CJR	1	
	< 25	ug/kg	7.	9	25	1	GRO95/8021		4/30/2013	CJR	1	
	-	86.9  Naphthalene ganics < 10	86.9 % Naphthalene ganics < 10 mg/kg	86.9 %  Naphthalene ganics < 10 mg/kg 2.	86.9 % Naphthalene ganics < 10 mg/kg 2.3 7	86.9 % Naphthalene ganics < 10 mg/kg 2.3 7.3	86.9 % 1 Naphthalene ganics < 10 mg/kg 2.3 7.3 1	86.9 % 1 5021  Naphthalene ganics < 10 mg/kg 2.3 7.3 1 GRO95/8021	86.9 % 1 5021  Naphthalene ganics < 10 mg/kg 2.3 7.3 1 GRO95/8021	86.9 % 1 5021 4/20/2013  Naphthalene ganics < 10 mg/kg 2.3 7.3 1 GRO95/8021 4/30/2013	86.9 % 1 5021 4/20/2013 MDK  Naphthalene ganics < 10 mg/kg 2.3 7.3 1 GRO95/8021 4/30/2013 CJR	86.9 % 1 5021 4/20/2013 MDK 1  Naphthalene ganics < 10 mg/kg 2.3 7.3 1 GRO95/8021 4/30/2013 CJR 1

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Project Name	LUEPTOW PROPERTY	Invoice #	E25045
Project #			

Project #										
Lab Code Sample ID Sample Matrix Sample Date	5025045Y G-6-5 Soil 4/15/2013	Result	Unit	LOD LO	OO Dil	Method	Ext Date	Run Date	Analyst	Code
Ethylbenzene Methyl tert-butyl et Naphthalene Toluene 1,2,4-Trimethylbenz m&p-Xylene o-Xylene	zene	<pre>&lt; 25 &lt; 25</pre>	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	7.7 8.1 22 8.4 10 9.3 16	25 1 26 1 70 1 27 1 33 1 30 1 50 1 32 1	GRO95/8021 GRO95/8021 GRO95/8021 GRO95/8021 GRO95/8021 GRO95/8021 GRO95/8021 GRO95/8021	Zaczate	4/30/2013 4/30/2013 4/30/2013 4/30/2013 4/30/2013 4/30/2013 4/30/2013	CJR CJR CJR CJR CJR CJR CJR CJR	1 1 1 1 1 1 1
Lab Code Sample ID Sample Matrix Sample Date	5025045Z G-7-1 Soil 4/15/2013							D D .		
a .		Result	Unit	LOD L	OQ Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General Solids Percent Inorganic		81.5	%		1	5021		4/20/2013	MDK	1
Metals		G G1	4	0.6	100 0	CW046 7401		4/22/2012	CWT	1
Lead, Total		7.71	mg/kg	0.6	1.92 2	SW846 7421		4/23/2013	CWT	1
Organic GRO/PVOC +	Nanhthalene	<u>.</u>								
Gasoline Range Org	-	< 10	mg/kg	2.3	7.3 1	GRO95/8021		4/30/2013	CJR	1
Benzene	544440	< 25	ug/kg	7.9	25 1	GRO95/8021		4/30/2013	CJR	1
Ethylbenzene		< 25	ug/kg	7.7	25 1	GRO95/8021		4/30/2013	CJR	I
Methyl test-butyl et	her (MTBE)	< 25	ug/kg	8.1	26 1	GRO95/8021		4/30/2013	CJR	İ
Naphthalene		< 25	ug/kg	22	70 1 27 1	GRO95/8021		4/30/2013	CJR CJR	I I
Toluene 1,2,4-Trimethylben:	7000	< 25 < 25	ug/kg ug/kg	8.4 10	27 1 33 1	GRO95/8021 GRO95/8021		4/30/2013 4/30/2013	CJR	1
1,3,5-Trimethylben:		< 25	ug/kg ug/kg	9.3	30 1	GRO95/8021		4/30/2013	CJR	1
m&p-Xylene		< 50	ug/kg	16	50 1	GRO95/8021		4/30/2013	CJR	1
o-Xylene		< 25	ug/kg	10	32 1	GRO95/8021		4/30/2013	CJR	1
Lab Code Sample ID Sample Matrix Sample Date	525045AA G-7-3 Soil 4/15/2013									
_		Result	Unit	LOD L	OQ Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent		91.6	%		1	5021		4/20/2013	MDK	1
Organic										
GRO/PVOC+	Naphthalene	e								
Gasoline Range Org		< 10	mg/kg	2.3	7.3 1	GRO95/8021		4/25/2013	CJR	1
Benzene		< 25	ug/kg	7.9	25 1			4/25/2013	CJR	1
Ethylbenzene		< 25	ug/kg	7.7	25 1	GRO95/8021		4/25/2013	CJR	1
Methyl tert-butyl et	her (MTBE)	< 25	ug/kg	8.1	26 1	GRO95/8021		4/25/2013	CJR	1
Naphthalene Toluene		< 25 < 25	ug/kg	22 8 4	70 I	GRO95/8021 GRO95/8021		4/25/2013 4/25/2013	CJR CJR	1

8.4

10

9.3

16

27

33 1

30 1

50

1

Toluene

o-Xylene

1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene m&p-Xylene

< 25

< 25

< 25

< 50

< 25

GRO95/8021

GRO95/8021

GRO95/8021

4/25/2013

4/25/2013

4/25/2013

CJR

CJR

CJR

CJR

CJR

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1

1

1

1

Project #

Lab Code 525045BB Sample ID G-7-Sample Matrix Soil G-7-5

Sample Matrix											
Sample Date	4/15/2013	_									
		Result	Unit	LOD L	OQ Di	l	Method	Ext Date	Run Date	Analyst	Code
General											
General											
Solids Percent		88.4	%			1	5021		4/20/2013	MDK	1
Organic											
GRO/PVOC+	Naphthalene	2									
Gasoline Range Or	ganics	< 10	mg/kg	2.3	7.3	1	GRO95/8021		4/25/2013	CJR	1
Benzene		< 25	ug/kg	7.9	25	1	GRO95/8021		4/25/2013	CJR	1
Ethylbenzene	1 (MTDE)	< 25	ug/kg	7.7	25	1	GRO95/8021		4/25/2013	CJR	1
Methyl tert-butyl et Naphthalene	ner (MTBE)	< 25 < 25	ug/kg ug/kg	8.1 22	26 70	1 1	GRO95/8021		4/25/2013	CJR	1
Toluene		< 25	ug/kg	8.4	27	1	GRO95/8021 GRO95/8021		4/25/2013 4/25/2013	CJR CJR	1
1,2,4-Trimethylben	zene	< 25	ug/kg	10	33	1	GRO95/8021		4/25/2013	CJR	1
1,3,5-Trimethylben	zene	< 25	ug/kg	9.3	30	1	GRO95/8021		4/25/2013	CJR	i
m&p-Xylene		< 50	ug/kg	16	50	1	GRO95/8021		4/25/2013	CJR	1
o-Xylene		< 25	ug/kg	10	32	1	GRO95/8021		4/25/2013	CJR	1
Lab Code	525045CC										
Sample ID	G-8-1										
Sample Matrix	Soil										
Sample Date	4/15/2013										
		Result	Unit	LOD L	OQ Di	l	Method	Ext Date	Run Date	Analyst	Code
General										•	
General											
Solids Percent		92.9	%			1	5021		4/20/2013	MDK	1
Inorganic											
Metals											
Lead, Total		6.39	mg/kg	0.6	1.92	2	SW846 7421		4/23/2013	CWT	1
Organic											
GRO/PVOC+	Naphthalene	2									
Gasoline Range Or	ganics	< 10	mg/kg	2.3	7.3	1	GRO95/8021		4/25/2013	CJR	1
Benzene		< 25	ug/kg	7.9	25	1	GRO95/8021		4/25/2013	CJR	1
Ethylbenzene Methyl tert-butyl et	thor (MTDE)	< 25 < 25	ug/kg	7.7 8.1	25 26	1 1	GRO95/8021		4/25/2013	CJR	1
Naphthalene	iliei (MTBE)	< 25	ug/kg ug/kg	22	70	1	GRO95/8021 GRO95/8021		4/25/2013 4/25/2013	CJR CJR	1
Toluene		31.5	ug/kg	8.4	27	1	GRO95/8021		4/25/2013	CJR	1
1,2,4-Trimethylben		28.6 "J"	ug/kg	10	33	1	GRO95/8021		4/25/2013	CJR	1
1,3,5-Trimethylben	zene	< 25	ug/kg	9.3	30	1	GRO95/8021		4/25/2013	CJR	1
m&p-Xylene o-Xylene		< 50 < 25	ug/kg ug/kg	16 10	50 32	1 1	GRO95/8021 GRO95/8021		4/25/2013	CJR CJR	1
-	505045DD	` 25	ug/Kg	10	32	1	GRO75/8021		4/25/2013	CJK	1
Lab Code	525045DD										
Sample ID	G-8-3										
Sample Matrix											
Sample Date	4/15/2013										
		Result	Unit	LOD L	OQ Di	1	Method	Ext Date	Run Date	Analyst	Code
General											
General											
Solids Percent		87.3	%			1	5021		4/20/2013	MDK	1
Organic											
GRO/PVOC +											
Gasoline Range Or	ganics	< 10	mg/kg	2.3	7.3	1	GRO95/8021		4/25/2013	CJR	1
Benzene		< 25	ug/kg	7.9	25	1	GRO95/8021		4/25/2013	CJR	1
			W	DNR Lab C	ertificati	ion #	4 445037560		Pa	ge 13 of 21	

Project Name	LUEPTOW PROPERTY	Invoice#	E25045
Project #			

Lab Code	525045DD
Sample ID	G-8-3
Sample Matrix	Soil
Sample Date	4/15/2013

	Result	Unit	LOD LO	וע טכ	ı	Method	Ext Date	Run Date	Analyst	Coae
Ethylbenzene	< 25	ug/kg	7.7	25	1	GRO95/8021		4/25/2013	CJR	I
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		4/25/2013	CJR	1
Naphthalene	< 25	ug/kg	22	70	1	GRO95/8021		4/25/2013	CJR	1
Toluene	< 25	ug/kg	8.4	27	1	GRO95/8021		4/25/2013	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	10	33	1	GRO95/8021		4/25/2013	CJR	I
1,3,5-Trimethylbenzene	< 25	ug/kg	9.3	30	1	GRO95/8021		4/25/2013	CJR	1
m&p-Xylene	< 50	ug/kg	16	50	1	GRO95/8021		4/25/2013	CJR	1
o-Xylene	< 25	ug/kg	10	32	1	GRO95/8021		4/25/2013	CJR	1

Lab Code525045EESample IDG-8-5Sample MatrixSoilSample Date4/15/2013

•	Result	lt Unit LOD LOQ Dil Metho		Method	thod Ext Date Run Date Analy			Code		
General										
General										
Solids Percent	93.7	%			1	5021		4/20/2013	MDK	1
Organic										
GRO/PVOC + Naphthalen	ie									
Gasoline Range Organics	< 10	mg/kg	2.3	7.3	1	GRO95/8021		4/25/2013	CJR	1
Benzene	< 25	ug/kg	7.9	25	1	GRO95/8021		4/25/2013	CJR	1
Ethylbenzene	< 25	ug/kg	7.7	25	1	GRO95/8021		4/25/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		4/25/2013	CJR	1
Naphthalene	< 25	ug/kg	22	70	1	GRO95/8021		4/25/2013	CJR	1
Toluene	< 25	ug/kg	8.4	27	1	GRO95/8021		4/25/2013	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	10	33	1	GRO95/8021		4/25/2013	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	9.3	, 30	1	GRO95/8021		4/25/2013	CJR	1
m&p-Xylene	< 50	ug/kg	16	50	1	GRO95/8021		4/25/2013	CJR	1
o-Xylene	< 25	ug/kg	10	32	1	GRO95/8021		4/25/2013	CJR	1

Lab Code525045FFSample IDG-9-1Sample MatrixSoilSample Date4/15/2013

Sample Date 4/	15/2013										
		Result	Unit	LOD L	OQ D	il	Method	Ext Date	Run Date	Analyst	Code
General											
General											
Solids Percent		90.3	%			1	5021		4/20/2013	MDK	1
Inorganic											
Metals											
Lead, Total		7.25	mg/kg	0.6	1.92	2	SW846 7421		4/23/2013	CWT	1
Organic											
GRO/PVOC + Na	phthalene	•									
Gasoline Range Organi	-	< 10	mg/kg	2.3	7.3	1	GRO95/8021		4/26/2013	CJR	1
Benzene		< 25	ug/kg	7.9	25	1	GRO95/8021		4/26/2013	CJR	1
Ethylbenzene		< 25	ug/kg	7.7	25	1	GRO95/8021		4/26/2013	CJR	1
Methyl tert-butyl ether	(MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		4/26/2013	CJR	1
Naphthalene		< 25	ug/kg	22	70	1	GRO95/8021		4/26/2013	CJR	1
Toluene		< 25	ug/kg	8.4	27	1	GRO95/8021		4/26/2013	CJR	1
1,2,4-Trimethylbenzen	e	< 25	ug/kg	10	33	1	GRO95/8021		4/26/2013	CJR	1
1,3,5-Trimethylbenzen	e	< 25	ug/kg	9.3	30	1	GRO95/8021		4/26/2013	CJR	1
m&p-Xylene		< 50	ug/kg	16	50	1	GRO95/8021		4/26/2013	CJR	1
o-Xylene		< 25	ug/kg	10	32	1	GRO95/8021		4/26/2013	CJR	1

Project #
Lab Code 525045GG
Sample ID G-9-3
Sample Matrix Soil
Sample Date 4/15/2013

Sample Matrix											
Sample Date	4/15/2013										
~ .		Result	Unit	LOD L	OQ D	il	Method	Ext Date	Run Date	Analyst	Code
General											
General											
Solids Percent		88.2	%			1	5021		4/20/2013	MDK	1
Organic											
GRO/PVOC +											
Gasoline Range Or Benzene	ganics	< 10	mg/kg	2.3	7.3	1	GRO95/8021		4/26/2013	CJR	l
Ethylbenzene		< 25 < 25	ug/kg ug/kg	7.9 7.7	25 25	1 1	GRO95/8021 GRO95/8021		4/26/2013 4/26/2013	CJR CJR	1 1
Methyl tert-butyl et	her (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		4/26/2013	CJR	1
Naphthalene		< 25	ug/kg	22	70	1	GRO95/8021		4/26/2013	CJR	1
Toluene 1,2,4-Trimethylben	7000	< 25 < 25	ug/kg	8.4	27	l	GRO95/8021		4/26/2013	CJR	1
1,3,5-Trimethylben		< 25	ug/kg ug/kg	10 9.3	33 30	1 1	GRO95/8021 GRO95/8021		4/26/2013 4/26/2013	CJR CJR	1 1
m&p-Xylene		< 50	ug/kg	16	50	1	GRO95/8021		4/26/2013	CJR	1
o-Xylene		< 25	ug/kg	10	32	1	GRO95/8021		4/26/2013	CJR	i
Lab Code	525045HH										
Sample ID	G-9-5										
Sample Matrix											
Sample Date	4/15/2013										
-		Result	Unit	LOD LO	OQ D	il	Method	Ext Date	Run Date	Analyst	Code
General										·	
General											
Solids Percent		94.4	%			1	5021		4/20/2013	MDK	1
Organic											
GRO/PVOC +											
Gasoline Range Or Benzene	ganics	< 10	mg/kg	2.3	7.3	1	GRO95/8021		4/26/2013	CJR	1
Ethylbenzene		<25 <25	ug/kg ug/kg	7.9 7.7	25 25	1 1	GRO95/8021 GRO95/8021		4/26/2013 4/26/2013	CJR CJR	1 1
Methyl tert-butyl et	her (MTBE)	< 25	ug/kg	8.1	26	ì	GRO95/8021		4/26/2013	CJR	1
Naphthalene		< 25	ug/kg	22	70	1	GRO95/8021		4/26/2013	CJR	1
Toluene 1,2,4-Trimethylben	7ene	< 25 < 25	ug/kg	8.4	27	1 1	GRO95/8021		4/26/2013	CJR	1
1,3,5-Trimethylben		< 25	ug/kg ug/kg	10 9.3	33 30	1	GRO95/8021 GRO95/8021		4/26/2013 4/26/2013	CJR CJR	1 1
m&p-Xylene		< 50	ug/kg	16	50	1	GRO95/8021		4/26/2013	CJR	1
o-Xylene		< 25	ug/kg	10	32	1	GRO95/8021		4/26/2013	CJR	1
Lab Code	525045II										
Sample ID	G-10-1										
Sample Matrix	Soil										
Sample Date	4/15/2013										
		Result	Unit	LOD L	OQ D	il	Method	Ext Date	Run Date	Analyst	Code
General											
General											
Solids Percent		83.5	%			1	5021		4/20/2013	MDK	1
Inorganic											
Metals		10.5				_					
Lead, Total		10.7	mg/kg	0.6	1.92	2	SW846 7421		4/23/2013	CWT	1
Organic	Nombel1-	_									
GRO/PVOC + Gasoline Range Or		e <10	m ~/1	2.1	7 2	1	CD 005/9021		4/07/0012	OID	
Benzene	Bailles	< 10 < 25	mg/kg ug/kg	2.3 7.9	7.3 25	1 1	GRO95/8021 GRO95/8021		4/27/2013 4/27/2013	CJR CJR	1
			<i>U U</i>						0 . 0	~~~	•

Project Name I	LUEPTOW F	DD ∩DED TV				Invoi	ce# E2504	15		
Project #	LOLITOWI	ROLLIT				IIIVOI	.ce # L250-	<b>T</b> J		
•	50504511									
Lab Code	525045II									
Sample ID	G-10-1									
Sample Matrix										
Sample Date	4/15/2013									
		Result	Unit	LOD LO		Method	Ext Date	Run Date		Code
Ethylbenzene	hor (MTPE)	< 25 < 25	ug/kg ug/kg	7.7 8.1	25 1 26 1	GRO95/8021 GRO95/8021		4/27/2013 4/27/2013	CJR CJR	] [
Methyl tert-butyl et Naphthalene	iliei (WH BE)	< 25	ug/kg ug/kg	22	70 1			4/27/2013	CJR	i
Toluene		< 25	ug/kg	8.4	27 1			4/27/2013	CJR	î
1,2,4-Trimethylben	zene	< 25	ug/kg	10	33 1	GRO95/8021		4/27/2013	CJR	1
1,3,5-Trimethylben	zene	< 25	ug/kg	9.3	30 1			4/27/2013	CJR	1
m&p-Xylene		< 50	ug/kg	16	50 1			4/27/2013	CJR	1
o-Xylene		< 25	ug/kg	10	32 1	GRO95/8021		4/27/2013	CJR	1
Lab Code	525045JJ									
Sample ID	G-10-3									
Sample Matrix	Soil									
Sample Date	4/15/2013									
		Result	Unit	LOD LO	OQ Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent		87.9	%		1	5021		4/20/2013	MDK	1
Organic										
GRO/PVOC +										
Gasoline Range Org	ganics	< 10	mg/kg	2.3	7.3 1			4/27/2013	CJR	I
Benzene Ethylbenzene		< 25 < 25	ug/kg	7.9 7.7	25 1 25 1			4/27/2013 4/27/2013	CJR CJR	1 1
Methyl tert-butyl et	her (MTRF)	< 25	ug/kg ug/kg	8.1	26 1			4/27/2013	CJR	1
Naphthalene	ner (MTBE)	< 25	ug/kg	22	70 1			4/27/2013	CJR	1
Toluene		< 25	ug/kg	8.4	27 1	GRO95/8021		4/27/2013	CJR	1
1,2,4-Trimethylben		< 25	ug/kg	10	33 1			4/27/2013	CJR	1
1,3,5-Trimethylben	zene	< 25	ug/kg	9.3	30 1 50 1			4/27/2013	CJR CJR	1
m&p-Xylene o-Xylene		< 50 < 25	ug/kg ug/kg	16 10	30 1			4/27/2013 4/27/2013	CJR	1 1
-	626046 <b>1</b> 212	23	46/16	10	3 <b>2</b> 1	01(0)3/0021		112112013	CJIC	•
Lab Code	525045KK									
Sample ID	G-10-5									
Sample Matrix										
Sample Date	4/15/2013	D 14	<b>T</b> T •4	100.10	30 P.I	3.6 (1 )	E ( D (	D D (		<i>C</i> 1
Camazzi		Result	Unit	LOD LO	ווע טכ	Method	Ext Date	Run Date	Analyst	Code
General										
General		00.0	0.4		,	5001		4/20/2012	MDV	,
Solids Percent		89.9	%		1	5021		4/20/2013	MDK	1
Organic	Manhthalana									
GRO/PVOC +			/1	2.2	72 1	GD 005/9021		4/27/2012	CID	
Gasoline Range Org Benzene	Railies	< 10 < 25	mg/kg ug/kg	2.3 7.9	7.3 1 25 1			4/27/2013 4/27/2013	CJR CJR	I 1
Ethylbenzene		< 25	ug/kg	7.7	25 1			4/27/2013	CJR	1
Methyl tert-butyl et	her (MTBE)	< 25	ug/kg	8.1	26 1	GRO95/8021		4/27/2013	CJR	1
Naphthalene		< 25	ug/kg	22	70 1			4/27/2013	CJR	1
Toluene	7000	< 25 < 25	ug/kg	8.4 10	27 1 33 1			4/27/2013 4/27/2013	CJR CJR	1 1
1,2,4-Trimethylben: 1,3,5-Trimethylben:		< 25 < 25	ug/kg ug/kg	9.3	33 1 30 1			4/27/2013	CJR CJR	1
m&p-Xylene	23110	< 50	ug/kg	16	50 1			4/27/2013	CJR	1
o-Xylene		< 25	ug/kg	10	32 1			4/27/2013	CJR	1

Project #

**Project Name** 

Lab Code525045LLSample IDTBSample MatrixWaterSample Date4/15/2013

1,1-Dichloroethene

cis-1,2-Dichloroethene

1,2-Dichloropropane

2,2-Dichloropropane

1,3-Dichloropropane

1,1-Dichloropropene

Hexachlorobutadiene

Isopropylbenzene

p-Isopropyltoluene

Methylene chloride

Methyl tert-butyl ether (MTBE)

1,1,2,2-Tetrachloroethane

Ethylbenzene

Naphthalene

Styrene

trans-1,2-Dichloroethene

trans-1,3-Dichloropropene

cis-1,3-Dichloropropene

< 0.31

< 0.32

< 0.25

< 0.32

< 0.45

< 0.26

< 0.22

< 0.2

< 0.34

< 0.27

< 0.48

< 0.3

< 0.3

< 0.35

< 0.26

< 0.49

< 0.23

< 0.45

ug/l

ug/l

ug/l

ug/l

ug/l

ug/l

ug/l

ug/1

ug/l

1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Result	Unit	LOD L	OQ Dil	Method	Ext Date	Run Date	Analyst	Code
Organic					_				•	
PVOC + Naph	thalene									
Benzene		< 0.24	ug/l	0.24	0.77 1	8260B		4/24/2013	CJR	Ī
Ethylbenzene		< 0.55	ug/l	0.55	1.7 1	8260B		4/24/2013	CJR	i
Methyl tert-butyle	ther (MTBE)	< 0.23	ug/l	0.23	0.74 1	8260B		4/24/2013	CJR	î
Naphthalene	,	< 1.7	ug/l	1.7	5.5 1	8260B		4/24/2013	CJR	i
Toluene		< 0.69	ug/l	0.69	2.2 1	8260B		4/24/2013	CJR	ì
1,2,4-Trimethylber	izene	< 2.2	ug/l	2.2	6.9 1	8260B		4/24/2013	CJR	1
1,3,5-Trimethylber	izene	< 1.4	ug/l	1.4	4.5 1	8260B		4/24/2013	CJR	Î
m&p-Xylene		< 0.69	ug/l	0.69	2.2 1	8260B		4/24/2013	CJR	1
o-Xylene		< 0.63	ug/l	0.63	2 1	8260B		4/24/2013	CJR	i
Lab Code	525045MN	Л								
Sample ID	POTABLE									
•										
Sample Matrix		vater								
Sample Date	4/15/2013									
		Result	Unit	LOD L	OQ Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene		< 0.24	ug/l	0.24	0.77	524.2		4/19/2013	CJR	1
Bromobenzene		< 0.33	ug/l	0.33	1 1	524.2		4/19/2013	CJR	î
Bromodichloromet	hane	< 0.27	ug/l	0.27	0.85	524.2		4/19/2013	CJR	i
Bromoform		< 0.34	ug/l	0.34	1.1 1	524.2		4/19/2013	CJR	i
Bromomethane		< 0.98	ug/l	0.98	3.1 1	524.2		4/19/2013	CJR	Ī
Carbon Tetrachlori	de	< 0.25	ug/l	0.25	0.81 1	524.2		4/19/2013	CJR	1
Chlorobenzene		< 0.24	ug/l	0.24	0.77 1	524.2		4/19/2013	CJR	1
Chloroethane		< 0.62	ug/l	0.62	2 1	524.2		4/19/2013	CJR	1
Chloroform		< 0.28	ug/l	0.28	0.88 1	524.2		4/19/2013	CJR	1
Chloromethane		< 0.81	ug/l	0.81	2.6	524.2		4/19/2013	CJR	1
2-Chlorotoluene		< 0.35	ug/l	0.35	1.1 1	524.2		4/19/2013	CJR	1
4-Chlorotoluene	_	< 0.29	ug/l	0.29	0.91 1	524.2		4/19/2013	CJR	1
Dibromochloromet	hane	< 0.2	ug/l	0.2	0.64 1	524.2		4/19/2013	CJR	1
Dibromomethane		< 0.41	ug/l	0.41	1.3 1	524.2		4/19/2013	CJR	1
1,4-Dichlorobenzer		< 0.25	ug/l	0.25	0.8 1	524.2		4/19/2013	CJR	1
1,3-Dichlorobenzer		< 0.3	ug/l	0.3	0.96 1	524.2		4/19/2013	CJR	1
1,2-Dichlorobenzer		< 0.28	ug/l	0.28	0.88 1	524.2		4/19/2013	CJR	l
Dichlorodifluorom		< 0.27	ug/l	0.27	0.85	524.2		4/19/2013	CJR	1
1,2-Dichloroethane		< 0.41	ug/l	0.41	1.3 1	524.2		4/19/2013	CJR	1
1,1-Dichloroethane	;	< 0.3	ug/l	0.3	0.97	524.2		4/19/2013	CJR	1

0.99

1

8.0

1

1.4

0.82

0.69

0.63

1.1

0.86

1.5

0.96

0.94

1.1

1.6 1 524.2

1.4

0.72

0.82

1

1

1

524.2

524.2

524.2

524.2

524.2

524.2

524.2

524.2

524.2

524.2

524.2

524.2

524.2

524.2

524.2

524.2

524.2

0.31

0.32

0.25

0.32

0.45

0.26

0.22

0.2

0.34

0.27

0.48

0.3

0.3

0.35

0.26

0.49

0.23

0.45

4/19/2013

4/19/2013

4/19/2013

4/19/2013

4/19/2013

4/19/2013

4/19/2013

4/19/2013

4/19/2013

4/19/2013

4/19/2013

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4/19/2013

4/19/2013

CJR

Project Name I Project #	LUEPTOW I	PROPERTY			Invoice #	# E25045
Lab Code Sample ID Sample Matrix Sample Date	525045MM POTABLE Drinking W 4/15/2013	WELL				
1,1,1,2-Tetrachloror Tetrachloroethene Toluene 1,2,4-Trichlorobenz 1,1,1-Trichloroetha 1,1,2-Trichloroetha Trichlorofluorometl 1,2,3-Trichloroprop Trichlorotrifluoroet 1,2,4-Trimethylbenz Vinyl Chloride m&p-Xylene o-Xylene	zene ne ne CE) hane wane hane zene	Result  < 0.29 < 0.27 < 0.24 < 0.24 < 0.33 < 0.34 < 0.3 < 0.26 < 0.91 < 0.41 < 0.31 < 0.26 < 0.18 < 0.69 < 0.25	Unit  ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/	LOD         LOQ         Dil           0.29         0.91         1           0.27         0.85         1           0.24         0.75         1           0.24         0.76         1           0.33         1         1           0.34         1.1         1           0.26         0.84         1           0.91         2.9         1           0.41         1.3         1           0.31         0.98         1           0.26         0.83         1           0.18         0.57         1           0.69         2.2         1           0.25         0.79         1	524.2 524.2 524.2 524.2 524.2 524.2 524.2 524.2 524.2 524.2 524.2 524.2 524.2 524.2 524.2 524.2 524.2	Ext Date Run Date Analyst Code  4/19/2013 CJR 1
Lab Code Sample ID Sample Matrix Sample Date	525045NN G-1-W Water 4/15/2013	Result	Unit	LOD LOQ Dil		Ext Date Run Date Analyst Code
Organic		Result	Onit	LOD LOQ DII	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	<0.24 <0.55 <0.23 <1.7 <0.69 <2.2 <1.4 <0.69 <0.63	ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	0.24 0.77 1 0.55 1.7 1 0.23 0.74 1 1.7 5.5 1 0.69 2.2 1 2.2 6.9 1 1.4 4.5 1 0.69 2.2 1 0.69 2.2 1	8260B 8260B 8260B 8260B 8260B	4/24/2013 CJR 1 4/24/2013 CJR 1
Lab Code Sample ID Sample Matrix Sample Date	525045OO G-2-W Water 4/15/2013	Result	Unit	LOD LOQ Dil	Method I	Ext Date Run Date Analyst Code
Organic	.1 1	Acouit	Onit	LOD LOQ DII	ricinou I	Sat Date Run Date Marjot Code
PVOC + Naph Benzene Ethylbenzene Methyl tert-butyl et Naphthalene Toluene 1 2 4-Trimethylben	iher (MTBE)	< 0.24 < 0.55 < 0.23 < 1.7 < 0.69 < 2.2	ug/l ug/l ug/l ug/l ug/l	0.24 0.77 1 0.55 1.7 1 0.23 0.74 1 1.7 5.5 1 0.69 2.2 1 22 6.9 1	8260B 8260B 8260B 8260B 8260B 8260B	4/24/2013 CJR 1 4/24/2013 CJR 1 4/24/2013 CJR 1 4/24/2013 CJR 1 4/24/2013 CJR 1 4/24/2013 CJR 1

CJR

CJR

CJR

CJR

4/24/2013 4/24/2013 4/24/2013 4/24/2013

6.9

4.5

2.2 1 2 1

1

8260B

8260B 8260B

8260B

1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene m&p-Xylene o-Xylene

< 2.2 < 1.4

< 0.69

< 0.63

ug/l

ug/l

ug/l

ug/l

2.2 1.4

0.69 0.63

Due lead Norm	, , iebaca, ,							
Project Name Project #	LUEPTOW I	PROPERTY			Inv	oice # E250	45	
Lab Code Sample ID Sample Matrix Sample Date	525045PP G-3-W Water 4/15/2013	D 14	,	100 100 DU				
Organic PVOC + Naph	thalene	Result	Unit	LOD LOQ Dil	Method	Ext Date	Run Date Analyst	Code
Benzene Ethylbenzene Methyl tert-butyl et Naphthalene Toluene 1,2,4-Trimethylben 1,3,5-Trimethylben m&p-Xylene o-Xylene	zene	< 0.24 < 0.55 < 0.23 < 1.7 < 0.69 < 2.2 < 1.4 < 0.69 < 0.63	ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	0.24 0.77 1 0.55 1.7 1 0.23 0.74 1 1.7 5.5 1 0.69 2.2 1 2.2 6.9 1 1.4 4.5 1 0.69 2.2 1 0.63 2 1	8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B		4/24/2013 CJR 4/24/2013 CJR 4/24/2013 CJR 4/24/2013 CJR 4/24/2013 CJR 4/24/2013 CJR 4/24/2013 CJR 4/24/2013 CJR 4/24/2013 CJR 4/24/2013 CJR	1 1 1 1 1 1 1
Lab Code Sample ID Sample Matrix Sample Date	525045QQ G-4-W Water 4/15/2013							
•		Result	Unit	LOD LOQ Dil	Method	Ext Date	Run Date Analyst	Code
Organic	thalama							
PVOC + Naph Benzene Ethylbenzene Methyl tert-butyl et Naphthalene Toluene 1,2,4-Trimethylben 1,3,5-Trimethylben m&p-Xylene o-Xylene	ther (MTBE) zene	< 0.24 < 0.55 < 0.23 < 1.7 < 0.69 < 2.2 < 1.4 < 0.69 < 0.63	ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	0.24 0.77 1 0.55 1.7 1 0.23 0.74 1 1.7 5.5 1 0.69 2.2 1 2.2 6.9 1 1.4 4.5 1 0.69 2.2 1 0.63 2 1	8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B		4/24/2013 CJR 4/24/2013 CJR 4/24/2013 CJR 4/24/2013 CJR 4/24/2013 CJR 4/24/2013 CJR 4/24/2013 CJR 4/24/2013 CJR 4/24/2013 CJR 4/24/2013 CJR	1 1 1 1 1 1 1
Lab Code Sample ID Sample Matrix Sample Date	525045RR G-5-W Water 4/15/2013							
0		Result	Unit	LOD LOQ 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	< 0.24 < 0.55 < 0.23 < 1.7 < 0.69 < 2.2 < 1.4 < 0.69 < 0.63	ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	0.24 0.77 1 0.55 1.7 1 0.23 0.74 1 1.7 5.5 1 0.69 2.2 1 2.2 6.9 1 1.4 4.5 1 0.69 2.2 1 0.63 2 1	8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B		4/24/2013 CJR 4/24/2013 CJR 4/24/2013 CJR 4/24/2013 CJR 4/24/2013 CJR 4/24/2013 CJR 4/24/2013 CJR 4/24/2013 CJR 4/24/2013 CJR 4/24/2013 CJR	1 1 1 1 1 1 1
Lab Code Sample ID Sample Matrix Sample Date	525045SS G-6-W Water 4/15/2013							
Organic PVOC + Naph	thalene	Result	Unit	LOD LOQ Dil	Method	Ext Date	Run Date Analyst	Code
Benzene		< 0.24	ug/l	0.24 0.77 1	8260B		4/24/2013 CJR	1
			W	I DNR Lab Certification	# 4450 <b>37</b> 560		Page 19 of 21	

Project Name I	LUEPTOW F	PROPERTY				Inv	oice# E2504	15		
Lab Code Sample ID Sample Matrix Sample Date	525045SS G-6-W Water 4/15/2013									
Ethylbenzene Methyl tert-butyl et Naphthalene Toluene 1,2,4-Trimethylben: 1,3,5-Trimethylben: m&p-Xylene o-Xylene	zene	Result < 0.55 < 0.23 < 1.7 < 0.69 < 2.2 < 1.4 < 0.69 < 0.63	Unit  ug/l  ug/l  ug/l  ug/l  ug/l  ug/l  ug/l  ug/l  ug/l	LOD L 0.55 0.23 1.7 0.69 2.2 1.4 0.69 0.63	OQ Dil 1.7 1 0.74 1 5.5 1 2.2 1 6.9 1 4.5 1 2.2 1 2 1	Method 8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B	Ext Date	Run Date 4/24/2013 4/24/2013 4/24/2013 4/24/2013 4/24/2013 4/24/2013 4/24/2013	Analyst  CJR  CJR  CJR  CJR  CJR  CJR  CJR  CJ	Code  1 1 1 1 1 1 1 1
Lab Code Sample ID Sample Matrix Sample Date	525045TT G-7-W Water 4/15/2013	-	·		00 00					
Organic		Result	Unit	LOD L	OQ Dil	Method	Ext Date	Run Date	Analyst	Code
PVOC + Naphi	thalene									
Benzene Ethylbenzene Methyl tert-butyl et Naphthalene Toluene 1,2,4-Trimethylben: m&p-Xylene o-Xylene	her (MTBE) zene	< 0.24 < 0.55 < 0.23 < 1.7 < 0.69 < 2.2 < 1.4 < 0.69 < 0.63	ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	0.24 0.55 0.23 1.7 0.69 2.2 1.4 0.69 0.63	0.77 1 1.7 1 0.74 1 5.5 1 2.2 1 6.9 1 4.5 1 2.2 1 2 1	8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B		4/24/2013 4/24/2013 4/24/2013 4/24/2013 4/24/2013 4/24/2013 4/24/2013 4/24/2013	CJR	1 1 1 1 1 1 1
Lab Code Sample ID Sample Matrix Sample Date	525045UU G-8-W Water 4/15/2013									
•		Result	Unit	LOD L	OQ Dil	Method	Ext Date	Run Date	Analyst	Code
Organic PVOC + Naphi Benzene Ethylbenzene Methyl tert-butyl et Naphthalene Toluene 1,2,4-Trimethylben: m&p-Xylene o-Xylene	her (MTBE) zene zene	< 0.24 < 0.55 < 0.23 < 1.7 < 0.69 < 2.2 < 1.4 < 0.69 < 0.63	ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	0.24 0.55 0.23 1.7 0.69 2.2 1.4 0.69 0.63	0.77	8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B		4/25/2013 4/25/2013 4/25/2013 4/25/2013 4/25/2013 4/25/2013 4/25/2013 4/25/2013	CJR	1 1 1 1 1 1 1
Lab Code Sample ID Sample Matrix	525045VV G-9-W Water									

< 0.24 Benzene ug/l 0.24 0.77 1 8260B 4/25/2013 Ethylbenzene < 0.55 0.55 1.7 1 8260B 4/25/2013 ug/l < 0.23 < 1.7 Methyl tert-butyl ether (MTBE) ug/l 0.23 0.74 1 8260B 4/25/2013 1.7 1 8260B 4/25/2013 Naphthalene ug/l 5.5

Unit

Sample Date

PVOC + Naphthalene

Organic

4/15/2013

Result

LOD LOQ Dil

Method

CJR

CJR

CJR

CJR

1

1

1

1

Ext Date Run Date Analyst Code

Project Name I Project #	LUEPTOW I	PROPERTY					Invoi	<b>ce</b> # E2504	15		
Lab Code	525045VV										
Sample ID	G-9-W										
Sample Matrix	Water										
Sample Date	4/15/2013										
_		Result	Unit	LOD L	OQ Di	il	Method	Ext Date	Run Date	Analyst	Code
Toluene		< 0.69	ug/l	0.69	2.2	1	8260B		4/25/2013	CJR	1
1,2,4-Trimethylben	zene	< 2.2	ug/l	2.2	6.9	1	8260B		4/25/2013	CJR	1
1,3,5-Trimethylben	zene	< 1.4	ug/l	1.4	4.5	1	8260B		4/25/2013	CJR	1
m&p-Xylene		< 0.69	ug/l	0.69	2.2	1	8260B		4/25/2013	CJR	1
o-Xylene		< 0.63	ug/l	0.63	2	1	8260B		4/25/2013	CJR	1
Lab Code	525045WW	V									
Sample ID	G-10-W										
Sample Matrix	Water										
Sample Date	4/15/2013										
•		Result	Unit	LOD L	OQ D	il	Method	Ext Date	Run Date	Analyst	Code
Organic											
PVOC + Naph	thalene										
Benzene		< 0.24	ug/l	0.24	0.77	1	8260B		4/25/2013	CJR	1
Ethylbenzene		< 0.55	ug/l	0.55	1.7	1	8260B		4/25/2013	CJR	1
Methyl tert-butyl et	ther (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		4/25/2013	CJR	1
Naphthalene		< 1.7	ug/l	1.7	5.5	1	8260B		4/25/2013	CJR	1
Toluene		< 0.69	ug/l	0.69	2.2	1	8260B		4/25/2013	CJR	1
1,2,4-Trimethylben	zene	< 2.2	ug/l	2.2	6.9	1	8260B		4/25/2013	CJR	1
1,3,5-Trimethylben	zene	< 1.4	ug/l	1.4	4.5	1	8260B		4/25/2013	CJR	1
m&p-Xylene		< 0.69	ug/l	0.69	2.2	1	8260B		4/25/2013	CJR	1
o-Xylene		< 0.63	ug/l	0.63	2	1	8260B		4/25/2013	CJR	1

"J" Flag: Analyte detected between LOD and LOQ  $\,$ 

LOD Limit of Detection

LOQ Limit of Quantitation

Code Comment

Laboratory QC within limits.

CWT denotes sub contract lab - Certification #445126660

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

Authorized Signature

Michael Ricker

Quote No.:

Lab I.D.#

Account No.:

# Synergy

# Environmental Lab, Inc.

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# Environmental Lab, Inc.

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Sample Handling Request **Rush Analysis Date Required** 

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# Environmental Lab, Inc.

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Sample Handling Request **Rush Analysis Date Required** 

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

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Lab I.D.	Sample I,D;	Collection Date Time	والسيخية المشدا	Fillered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	DHO DHO		N High	F SO	PVOC	SULFA VOC D	VOC (EPA 8260) 8-RCHA METALS	TO THE STATE OF TH		***************************************		manufunganos (r.), "jakalan	FID
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R	G-3-W	11-12					1-1-			44		X					44	-		
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	6-5-W	12.19						++		4	- and signed	X				parecon need actions	+			
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ЦЦ	6-8-W	3:3:										X	1							
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ખાખી	G-10-W	V 3:10	<u>V</u>	V	¥	V	LV	]				X								
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Comments/Spec	dal Instructions (	*Specify grout	idwater "GW",	Unnking	water "DW", '	Waste Water	"WW", Soll "S	~, Air	~A*, O	d. Slud	dge e	10.)								
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Site Investigation Report-METCO Lueptow Property

### APPENDIX C/ WELL AND BOREHOLE DOCUMENTATION

#### SOIL BORING LOG INFORMATION

Form 4400-122

ev. 7-98

Route To:

Watershed / Wastewater: Remediation / Redevelopment:

Waste Management:

Other

Х

Page Facility / Project Name License / Permit / Monitoring Number Boring Number Lueptow Property Boring Drilled By: Name of crew chief (first, last) and Firm Drilling Date Started **Drilling Date Completed Drilling Method** Last: Prentice 04/15/13 04/15/13 Geoprobe Firm: Geiss Soil & Samples, LLC MM/ DD/ YYYY MM /DD/ YYYY WI Unique Well No. DNR Well ID No. Well Name Surface Elevation Final Static Water Level Borehole Diameter Feet MSL 2 inches Local Grid Origin (estimated X) or Boring Location Local Grid Location State Plane Lat 44° 29' 16" N. SE¼ of NW¼ of Section 8 , T 23 N, R 10 W Long 91° 37' 11" Feet S Feet W Facility ID County County Code Civil Town / City / Village Buffalo Town of Dover (Mondovi) Sample Soil Properties Number & Type Depth in Feet (below ground surface) ≈Œ Compressive Strength Well Diagram Plasticity Index Blow Counts Graphic Log Liquid Limit Length Att. Recovered ( PID / FID Soil / Rock Description Moisture Content P 200 And Geologic Origin For Each Major Unit RQD / Comments G-1-1 (0-4 feet) 36 Brown sandy silt SP-SM 0 М No Petro Odor SP-SM 4'-6' Brown sandy silt SP 0 М No Petro Odor G-1-2 36 \_8 6'-8' Tan medium to coarse grained sand (4-8 feet) 9 10 G-1-3 (8-12 feet) G-1-W 24 \_12 Tan medium to coarse grained sand SP 0 W No Petro Odor EOB 12 Feet Groundwater sample G-1-W collected.. (7-12 feet) I hereby certify that the information on this form is true and correct to the best of my knowledge Firm: **METCO** 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.

#### WELL/DRILLHOLE/BOREHOLE ABANDONMENT Form 3300-5 2/2000 Page 1 of 2

Route to: Drinking Water Water	shed/Wastewater			Redevelopment Oth	
(1) GENERAL INFORMATION WI Unique Well No. DNR Well ID No.	o I County	Facility Na		ER INFORMATION	<u> </u>
WY SINGLE WON 110.	BUFFALO	Lueptow F			
C1	•	Facility ID	• •	License/Permit/M	onitoring No.
Common Well Name G-1	Gov't Lot (If applicable	)			
SE' 1/4 of NW 1/4 of Sec. 8 Grid Location	.; T. $\frac{2^3}{N}$ ; R. $\frac{10}{N}$ [X] W	Street Addr W448 Cou	ess of Well nty Road Z		
	ft. □ E. □ W.	City, Villag Mondovi	e, or Town		
Local Grid Origin (estimated:	]) or Well Location 🔲	Present Well	Owner	Original O	wner
Lat. 44 ° 29 ' 16 " Lon	91 37 " "or	Lisa Lueptov	v		
St. Planeft. N	S C N		ess or Route inty Road Z	of Owner	
Reason For Abandonment WI	Unique Well No.	City, State,			
Sampling complete of F	Replacement Well	Mondovi	-	WI 54755-	
(3) WELL/DRILLHOLE/BOREHOL	LE INFORMATION	(4) PUMP,	LINER, SC	REEN, CASING, &	SEALING MATERIAL
Original Construction Date 4/15/2	2013	Pump &	Piping Rem	oved? Yes	No X Not Applicable
	7013	Liner(s)	Removed?	☐ Yes ☐	No [X] Not Applicable
Monitoring Well	If a Well Construction Report		Removed?	☐ Yes ☐	No X Not Applicable
☐ water wen	is available, please attach.	Casing 1	Left in Place?	Yes X	No
[X] Borehole / Drillhole  Construction Type:		Was Ca	sing Cut Off	Below Surface? X	Yes No
Drilled Driven (	Sandpoint) Dug	Did Sea	ling Material	Rise to Surface? [X]	Yes 🔲 No
[X] Other (Specify) Geoprobe		1		fter 24 Hours?	Yes [X] No
		If Yes	, Was Hole R	Retopped?	Yes No
Formation Type:	<b>-</b>	Require	d Method of	Placing Sealing Materia	al
[X] Unconsolidated Formation	☐ Bedrock	. —	ductor Pipe-C		or Pipe-Pumped
Total Well Depth (ft.) 12 C	asing Diameter (in.) 2	Scre (Be	ened & Pour ntonite Chip	red [X] Other (I s)	Explain) Gravity
(From groundsurface)	asing Depth (ft.)	Sealing	Materials	For	monitoring wells and
Lower Drillhole Diameter (in.) 2	_	. =	Cement Gro	t-) Casus	itoring well boreholes only
Was Well Annular Space Grouted?	Yes No Unknown		crete		Bentonite Chips
If Yes, To What Depth?	Feet	. = .		(11 lb./gal. wt.)	Granular Bentonite Bentonite - Cement Grou
Depth to Water (Feet) 7		. —	onite-Sand S onite Chips	Iuny " "	Bentonite - Sand Slurry
(5) Material Used To Fill	Well/Drillhole	From (Ft.)	To (Ft.)	lbs. Sealant	Mix Ratio or Mud Weight
Bentonite Chips		Surface	12	18	
·		1			
		<u>[</u>			
About Joned by Color up	Jan METCO announciales	1			
(6) Comments: Abandoned by Geiss und	ner METCO supervision.	<del></del>	<del></del>		
(7) Name of Person or Firm Doing Seali	ng Work Date of Abando	nment			
Eric Dahl (METCO)	4/15/2013			R DNR OR COUNTY I	ISE ONLY
Signature of Person Doing Work	Date Signed	Date	Received	Noted By	
9 Jac	5/14/13	Con	mients		
Street or Route	Telephone Number	-,011			
709 Gillette St. Ste. 3	(608)781-8879	=			100
City, State, Zip Code LaCrosse W	и 54603-				
TuC1 033C					

:ignature)

#### SOIL BORING LOG INFORMATION

Form 4400-122

Route To:

Watershed / Wastewater:

Χ

Waste Management:

Remediation / Redevelopment: Other: Page Facility / Project Name License / Permit / Monitoring Number **Boring Number** Lueptow Property Drilling Date Completed Boring Drilled By: Name of crew chief (first, last) and Firm Drilling Date Started Drilling Method 04/15/13 04/15/13 First: Darrin Last: Prentice Geoprobe Firm: Geiss Soil & Samples, LLC MM /DD/ YYYY MM/ DD/ YYYY WI Unique Well No. DNR Well ID No. Well Name Final Static Water Level Surface Elevation Borehole Diameter 2 inches Local Grid Origin (estimated X) or Boring Location Local Grid Location State Plane Lat 44° 29' 16" Ν 91° 37' 11" Feet S Feet W SE% of NW% of Section 8, T 23 N, R 10 W Long Facility ID County County Code Civil Town / City / Village Buffalo Town of Dover (Mondovi) Soil Properties Number & Type Depth in Feet (below ground surface) ≈ <u>≘</u> Counts Well Diagram Plasticity Index Compressiv Strength Liquid Limit Length Att. Recovered (i Soil / Rock Description Moisture Content 200 Graphic And Geologic Origin RQD / Comments 吕 Blow For Each Major Unit 0-3' Tan sandy silt G-2-1 (0-4 feet) 42 3'-4' Orange very fine to fine grained sand SP 0 М No Petro Odor 0 No Petro Odor Orange very fine to fine grained sand М G-2-2 (4-8 feet) 36 \_10 G-2-3 42 Orange fine to coarse grained sand SP 0 М No Petro Odor \_12 (8-12 feet) ΜW No Petro Odor G-2-4 42 \_16 Orange fine to coarse grained sand SP O (12-16 feet) \_18 G-2-5 48 \_20 SP 0 MW No Petro Odor (16-20 feet) \_22 : 24 SP 0 W No Petro Odor Orange fine to coarse grained sand (20-24 feet) G-2-W (19-24 feet) EOB 24 Feet Groundwater sample G-2-W collected.. Borehole Abandoned, hereby certify that the information on this form is true and correct to the best of my knowledge

his 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 etween \$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 or any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Firm:

**METCO** 

#### WELL/DRILLHOLE/BOREHOLE ABANDONMENT Form 3300-5 2/2000 Page 1 of 2

Route to: Drinking Water Watershed/Wastewater Waste Manag	
(1) GENERAL INFORMATION WI Unique Well No.   DNR Weil ID No.   County	(2) FACILITY / OWNER INFORMATION  Facility Name
BUFFALO	Lueptow Property
	Facility ID   License/Permit/Monitoring No.
Common Well Name G-2 Gov't Lot (If applicable)	Exemise 1 et mito violitor ing ivo.
SE 1/4 of NW 1/4 of Sec. 8; T. 23 N; R. 10   X W	Street Address of Well
Grid Location [X] w	W448 County Road Z
	City, Village, or Town
ft. N. S.,ft. E. W.	Mondovi
Local Grid Origin (estimated: ) or WellLocation	Present Well Owner Original Owner
Lat. 44 ° 29 ' 16 " Long 91 ° 37 ' 11 "or	Lisa Lueptow
St. Planeft. Nft. E. S C N Zone  Reason For Abandonment	Street Address or Route of Owner W448 County Road Z
Reason For Abandonment   WI Unique Well No.	City, State, Zip Code
Sampling complete of Replacement Well	Mondovi WI 54755-
	(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL
	Pump & Piping Removed? Yes No X Not Applicable
Original Construction Date 4/15/2013	Liner(s) Removed? Yes No [X] Not Applicable
Monitoring Well  If a Well Construction Report	Screen Removed? Yes No [X] Not Applicable
is available, please attach.	Casing Left in Place? Yes X No
XI Borehole / Drillhole	Was Casing Cut Off Below Surface?  x  Yes  No
Construction Type:  Drilled  Driven (Sandpoint)  Dug	Did Sealing Material Rise to Surface? X Yes No
	Did Material Settle After 24 Hours? Yes [X] No
[X] Other (Specify) Geoprobe	If Yes, Was Hole Retopped? Yes No
Formation Type:	Required Method of Placing Sealing Material
[X] Unconsolidated Formation	Conductor Pipe-Gravity Conductor Pipe-Pumped
Total Well Depth (ft.) 24 Casing Diameter (in.) 2	
(F	Screened & Poured (Bentonite Chips) [X] Other (Explain) Gravity
(From groundsurface) Casing Depth (ft.)	Sealing Materials For monitoring wells and
Lower Drillhole Diameter (in.) 2	Neat Cement Grout monitoring well boreholes only
Was Well Annular Space Grouted?	Sand-Cement (Concrete) Grout Bentonite Chips
	☐ Concrete
If Yes, To What Depth? Feet	Bentonite-Sand Slurry " " Bentonite - Cement Grou
Depth to Water (Feet) 19	Bentonite Chips Bentonite - Sand Slurry
	Mix Datio
(5) Material Used To Fill Well/Drillhole	From (Ft.) To (Ft.) lbs. Sealant or Mud Weight
Bentonite Chips	Surface 24 36
Denomic Carps	
	<u> </u>
(6) Comments: Abandoned by Geiss under METCO supervision.	
(7) Name of Person or Firm Doing Sealing Work Date of Abandon	ment
Eric Dahl (METCO) 4/15/2013	FOR DNR OR COUNTY USE ONLY
Signature of Person Doing Work Date Signed	Dafe Received Noted By
5/14/13	
Street or Route Telephone Number	Comments
709 Gillette St. Ste. 3 (608) 781-8879	
City, State, Zip Code	
LaCrosse WI 54603-	

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 Lueptow Property **Drilling Date Started** Drilling Date Completed Boring Drilled By: Name of crew chief (first, last) and Firm **Drilling Method** 04/15/13 First: Darrin Last: Prentice 04/15/13 Geoprobe MM/ DD/ YYYY Firm: Geiss Soil & Samples, LLC MM /DD/ YYYY WI Unique Well No. DNR Well ID No. Well Name Final Static Water Level Surface Elevation Borehole Diameter 2 inches Feet MSL Local Grid Origin (estimated X) or Boring Location **Local Grid Location** Lat 44° 29' 16" State Plane N, Ν Ε SE% of NW% of Section 8, T 23 N, R 10 W Feet W Long 91° 37' 11' Feet S County Code Facility ID County Civil Town / City / Village Buffalo Town of Dover (Mondovi) Sample Soil Properties Depth in Feet (below ground surface) ≈Ê Diagram Plasticity Inde: Blow Counts Graphic Log Compressiv Strength Liguid Limit Length Att. Recovered ( Soil / Rock Description And Geologic Origin USCS PID / FID Moisture Content RQD / Comments For Each Major Unit G-3-1 (0-4 feet) SP-SM 0 36 Tan sandy silt М No Petro Odor G-3-2 36 SP 0 М No Petro Odor (4-8 feet) 10 \_12 SP 0 w No Petro Odor Fan to brown fine to coarse grained sand (8-12 feet) G-3-W (7-12 feet) EOB 12 Feet Groundwater sample G-3-W collected... Borehole Abandoned. 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 xetween \$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 or any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Firm:

**METCO** 

#### WELL/DRILLHOLE/BOREHOLE ABANDONMENT Form 3300-5 2/2000 Page 1 of 2

	atershed/Wastewater	ement [X]	Remediation/F	Redevelopment	Other
(1) GENERAL INFORMATION WI Unique Well No. DNR Well II	0 No. I County	(2) FACILI Facility Nai		ER INFORMATI	UN
WI Dilique Well 140. DIVE Well 11	i i	Lueptow P			
	BUFFALO	Facility ID	торенту	I I iconso/Parmit	/Monitoring No.
Common Well Name G-3	Gov't Lot (If applicable)	racinty 1D		Dicenses et mi	rivionitoi ing 140.
$\frac{SE}{S}$ 1/4 of $\frac{NW}{M}$ 1/4 of Sec.	8 .т23 <sub>N:R.</sub> 10 ПЕ	Street Addre	ess of Well		
Grid Location	; 1.23 N, K = [X] W		nty Road Z		
	, ft. ☐ E. ☐ W.	City, Village	e, or Town		
Local Grid Origin (estimated		Mondovi Present Well	0	Outedan	l Owner
Lat. 44° 29 16 " I		Lisa Lueptov		Origina	i Owner
	C C N	Street Addr		of Owner	
St. Planeft. N	ft. E. 🗖 🗖 🛱 Zone	W448 Cou	nty Road Z		
	WI Unique Well No.	City, State, 2	Zip Code		
	of Replacement Well	Mondovi		WI 54755-	
(3) WELL/DRILLHOLE/BOREF	IOLE INFORMATION	(4) PUMP,	LINER, SC		& SEALING MATERIAL
Original Construction Date 4/1	5/2013	•	Piping Remo	oved? Yes	☐ No [X] Not Applicable
Monitoring Well			Removed?		☐ No [X] Not Applicable
☐ Water Well	If a Well Construction Report		Removed?		No X Not Applicable
X Borehole / Drillhole	is available, please attach.	Casing 1	Left in Place?	☐ Yes	X] No
Construction Type:		Was Cas	sing Cut Off	Below Surface?	X Yes No
	en (Sandpoint) Dug	Did Sea	ling Material	Rise to Surface?	[X] Yes 🔲 No
		Did Mat	erial Settle A	fter 24 Hours?	Yes [X] No
X Other (Specify) Geoprobe		If Yes	, Was Hole R	letopped?	Yes No
Formation Type:	_	Require	d Method of	Placing Sealing Ma	terial
[X] Unconsolidated Formation	☐ Bedrock	□ Соло	ductor Pipe-G	ravity Con	ductor Pipe-Pumped
Total Well Depth (ft.) 12	Casing Diameter (in.) 2	☐ Scre (Be	ened & Pour ntonite Chip:	ed [X] Others)	er (Explain) Gravity
(From groundsurface)	Casing Depth (ft.)	Sealing	Materials	F	for monitoring wells and
Lower Drillhole Diameter (in.)	2		Cement Gro	ut n encrete) Grout 1	nonitoring well boreholes only
Was Well Annular Space Grouted	? Yes No Unknown	Cond	•	increacy Groun	Bentonite Chips
If Yes, To What Depth?		_		(11 lb./gal. wt.)	X] Granular Bentonite
It les, to what Deput?			onite-Sand S	` ';	Bentonite - Cement Grou
Depth to Water (Feet) 7			onite Chips	,	☐ Bentonite - Sand Slurry
(5) Material Used To	Fill Well/Drillhole	From (Ft.)	To (Ft.)	lbs. Sealant	Mix Ratio or Mud Weight
Bentonite Chips		Surface	12	18	
		:			
(6) Comments: Abandoned by Geiss	under METCO supervision.				<u>-</u>
(b) Comments.					
(7) Name of Person or Firm Doing S	ealing Work Date of Abandon	ment			·
	4/15/2013	IIICII	FO	R DNR OR COUNT	Y USE ONLY
Eric Dahl (METCO)		Date	Received	Noted By	
Signature of Person Doing Work	Date Signed				
Street or Route	Telephone Number	Com	ments		
709 Gillette St. Ste. 3	(608)781-8879				100
City, State, Zip Code					
LaCrosse	wi 54603-				

#### SOIL BORING LOG INFORMATION

Form 4400-122

Rev. 7-98

Route To:

Watershed / Wastewater:

Waste Management:

Remediation / Redevelopment: X Other:

Page Facility / Project Name License / Permit / Monitoring Number **Boring Number** Lueptow Property Boring Drilled By: Name of crew chief (first, last) and Firm Drilling Date Started **Drilling Date Completed Drilling Method** 04/15/13 First: Darrin Last: Prentice 04/15/13 Geoprobe MM/ DD/ YYYY MM /DD/ YYYY Firm: Geiss Soil & Samples, LLC WI Unique Well No. DNR Well ID No. Well Name Final Static Water Level Surface Elevation Borehole Diameter Feet MSL 2 inches Local Grid Origin (estimated X) or Boring Location Local Grid Location State Plane N, Lat 44° 29' 16" Ν SE% of NW% of Section 8 , T 23 N, R 10 W Long 91 ° 37 ' 11 ' Feet W Feet S Facility ID County County Code Civil Town / City / Village Buffalo Town of Dover (Mondovi) Soil Properties Number & Type Depth in Feet (below ground surface) જ Έ l Diagram Blow Counts Compressive Strength \_iquid Limit Length Att. Recovered (i PID / FID Moisture Content Soil/Rock Description USCS Graphic And Geologic Origin Plasticity RQD / Comments For Each Major Unit Nell G-4-1 (0-4 feet) No Petro Odor 42 Tan sandy silt SP-SM 0 М SP-SM 6 4'-6' Tan sandy silt 42 0 No Petro Odor G-4-2 6'-8' Green to tan very fine to medium grained sand М (4-8 feet) 10 0 36 \_12 Tan to orange fine to coarse grained sand М No Petro Odor (8-12 feet) 36 16 Tan fine to coarse grained sand 0 М No Petro Odor (12-16 feet) \_18 G-4-5 (16-20 feet) G-4-W (15-20 feet) 48 \_20 SP 0 ΜW No Petro Odor Fan fine to coarse grained sand EOB 20 Feet Groundwater sample G-4-W collected.. Borehole Abandoned. \_22 24 I hereby certify that the information on this form is true and correct to the best of my knowledge Signature: **METCO** Firm:

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.

#### WELL/DRILLHOLE/BOREHOLE ABANDONMENT Form 3300-5 2/2000 Page 1 of 2

Route to: Drinking Water Watershed/Wastewater Waste Manag				
(1) GENERAL INFORMATION			ER INFORMATIO	N
WI Unique Well No.   DNR Well ID No.   County	Facility Nat			
BUFFALO	Lueptow P	roperty		
Common Well Name G-4 Gov't Lot (If applicable)	Facility ID		License/Permit/N	Aonitoring No.
$\frac{SE}{Crid L continue} \frac{1/4 \text{ of } \frac{NW}{M}}{1/4 \text{ of Sec.}} \frac{9}{9} ; T. \frac{23}{N}; R. \frac{16}{M} \frac{\square E}{ X  W}$	Street Addre	ess of Well		
Grid Location  X  W		nty Road Z		
ft. N. S.,ft. E W.	City, Villag Mondovi	e, or Town		
Local Grid Origin (estimated: ) or Well Location	Present Well	Owner	Original (	Owner
Lat. 44° 29' 16 " Long 91° 37' 11 "or	Lisa Lueptov			
S C N	Street Addr	ess or Route	of Owner	
St. Planeft. Nft. E.	W448 Cou	nty Road Z		•
a		Zip Code	W E4755	
	Mondovi	TAVED CO	WI 54755-	
(3) WELL/DRILLHOLE/BOREHOLE INFORMATION				SEALING MATERIAL
Original Construction Date 4/15/2013		Piping Remo		No X Not Applicable
Monitoring Well		Removed? Removed?		No X Not Applicable
Wester Well Construction Report		Left in Place?		No X Not Applicable
is available, please attach.	- Casing i	CIT III I IACC:		
Construction Type:	Was Cas	sing Cut Off I	Below Surface?	x] Yes 🔲 No
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug	Did Seal	ling Material	Rise to Surface?	X] Yes 🔲 No
	Did Mat	terial Settle A	fter 24 Hours?	Yes X No
[X] Other (Specify) Geoprobe	If Yes	, Was Hole R	etopped?	Yes No
Formation Type:	Require	d Method of I	Placing Sealing Mater	rial
[X] Unconsolidated Formation	Cond	luctor Pipe-G	ravity Condu	ctor Pipe-Pumped
Total Well Depth (ft.) 20 Casing Diameter (in.) 2	☐ Scre	ened & Pour	ed X Other	(Explain) Gravity
		ntonite Chips	s)	Gravity
(From groundsurface) Casing Depth (ft.)		Materials		monitoring wells and
Lower Drillhole Diameter (in.) 2	=	Cement Gro		nitoring well boreholes only
Was Well Annular Space Grouted? Yes No Unknown		•	ncrete) Grout   [	Bentonite Chips
	☐ Conc		(11 % ()()	K] Granular Bentonite
If Yes, To What Depth? Feet		onite-Sand Si	(11 ib./gal. wt.)	Bentonite - Cement Grou
Depth to Water (Feet) 15	_	tonite Chips		Bentonite - Sand Slurry
(5) Material Used To Fill Well/Drillhole	From (Ft.)	To (Ft.)	lbs. Sealant	Mix Ratio or Mud Weight
Bentonite Chips	Surface	20	30	1
Bentomite Carps		20	30	<u> </u>
(6) Comments: Abandoned by Geiss under METCO supervision.				
			<del></del>	
(7) Name of Person or Firm Doing Sealing Work Date of Abandon	ment			
Eric Dahl (METCO) 4/15/2013			R DNR OR COUNTY	USE ONLY
Signature of Person Doing Work Date Signed	—— Date	Received	Noted By	
E/24 5/14/13	Com	ments		
Street or Route Telephone Number				
709 Gillette St. Ste. 3 (608)781-8879	-			
City, State, Zip Code				
LaCrosse WI 54603-				250000000000000000000000000000000000000

#### SOIL BORING LOG INFORMATION

Form 4400-122

Rev. 7-98

			Route To:	Watershed / Wastewater: Remediation / Redevelopment:		Waste	Manag	gement: Other:						
acility / Pr	rainat N	ama			Licopoo	/ Dormit	/ Moni	toring N	umbor		Page	1	of	
ueptow P		anie			Licerise	: / Permit	. / IVIOI II	toring iv	umper				G-:	ring Number
		Name	of crew ch	ief (first, last) and Firm	Drilling	Date Sta	arted		Drilling	Date Co	mpleted	<u></u>		lling Method
First: (				Prentice	_	04/15/13			- (	04/15/13				probe
Firm: ( WI Unique V			nples, LLC Well ID No.	Well Name		I/ DD/ YY		evel		/DD/ YY	<u>YY</u> Elevatio	n		orehole Diameter
		5	701112 7101	VVEII (VAITIE	1 1110	Feet		.cvci	3	urrace	Lievatioi	11	Ь	2 inches
ocal Grid	Origin	(estima	ated X) or E	Boring Location		1 000	VIOL			Local G	rid Loca	ation		2 mones
state Plane		Ν,	E			° 29'				N		E		
	cility ID	Section	18 ,T 23 N	County	Long 9	91° 37'		/ Code			Feet ivil Tow		/ V	llage
	,			Buffalo			-	6			own of [	-		_
	San	ple							ropertie				,,	
Number & Туре	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-5-1 (0-4 feet)	36		- - - - 2 - - - - - - - - - - - - - - -	Brown sandy silt	SP-SM		,	0			М			No Petro Odor
G-5-2 (4-8 feet)	42		- - - - - 8  - - - - - -	4'-7' Brown sandy silt 7'-8' Tan very fine to medium grained sand	SP-SM			0			М			No Petro Odor
G-5-3 (8-12 feet)	42		- - 12 - - - - -14	Tan fine to coarse grained sand	SP	~		0			М			No Petro Odor
G-5-4 (12-16 feet) G-5-W (11-16 feet)	48		 - - - - - - - - - - - - - - - - - -	Tan fine to coarse grained sand  EOB 16 Feet Groundwater sample G-5-W collected  Borehole Abandoned.	SP			0			MW			No Petro Odor
TO.			20   22    24											
hereby c	ertify th	I at the i	information	n on this form is true and correct to the best	of mv k	nowleda	e e				<u> </u>		<b>-</b>	
ignature		iat tile i	, (Olimation	Total and form to true data correct to the best	. Or my K	omcag			Firm:	M	TCO			
5	-	,	/											

his 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 stween \$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 or any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

#### WELL/DRILLHOLE/BOREHOLE ABANDONMENT Form 3300-5 2/2000 Page 1 of 2

Route to: Drinking Water Water (1) GENERAL INFORMATION	ershed/Wastewater			Redevelopment Oth	
WI Unique Well No. DNR Well ID	No. (County	Facility Na		ER HAD ORNINGTON	
WI blidge well No.   DIAK Well ID	BUFFALO	1 -			
	, BUFFALO	Lueptow	_	I I : (D:4/N)	141 NI -
	Gov't Lot (If applicab	<u> </u>		License/Permit/Mo	onitoring No.
SE 1/4 of NW 1/4 of Sec. 8	. T 2 <sup>3</sup> N·R 1.0 $\Box$	E Street Addr	ess of Well		
Grid Location	-; $1.2$ $1.2$ $1.3$ $[X]$	W W448 Cot	ınty Road Z		
6 D v D c	4 D 7 D 4	City, Villag	ge, or Town		
	ft.	Mondovi			
Local Grid Origin (estimated:		Present We	ll Owner	Original Ov	wner
Lat. 44° 29' 16 " Lo	mg 91 ° 37 ' 11 "	or Lisa Luepto	w		
	S C N	Street Addr	ess or Route	of Owner	
St. Planeft. N	ft. E. 📙 🗀 🗀	one W448 Co	unty Road Z		
	A Unique Well No.	City, State,	Zip Code		
	Replacement Well	Mondovi		WI 54755-	
(3) WELL/DRILLHOLE/BOREHO	DLE INFORMATION	(4) PUMP,	LINER, SC	REEN, CASING, & S	SEALING MATERIAL
Original Construction Date 4/15	/2.013	Pump 8	Piping Rem	oved? Yes	No X Not Applicable
_		Liner(s	Removed?	☐ Yes ☐	No [X] Not Applicable
Monitoring Well	If a Well Construction Report	Screen	Removed?		No X Not Applicable
☐ Water Well	is available, please attach.	Casing	Left in Place?		
[X] Borehole / Drillhole  Construction Type:		Was Ca	sing Cut Off	Below Surface? X	Yes No
	(Sandpoint) Dug	Did Sea	iling Material	Rise to Surface? [X]	Yes No
	(Sandpoint) L Dug	Did Ma	terial Settle A	After 24 Hours?	Yes X No
X Other (Specify) Geoprobe		If Ye	s, Was Hole R	Retopped?	Yes No
Formation Type:		Require	ed Method of	Placing Sealing Materia	1
[X] Unconsolidated Formation	☐ Bedrock	1	ductor Pipe-C		or Pipe-Pumped
16		_	eened & Pour	ed vl Other (F	Explain) Gravity
1 (1)	Casing Diameter (in.)		entonite Chip	s)	Gravity
(From groundsurface)	Casing Depth (ft.)	Sealing	Materials	Forn	nonitoring wells and
Lower Drillhole Diameter (in.) 2		1 =	t Cement Gro		toring well boreholes only
Was Well Annular Space Grouted?	☐ Yes ☐ No ☐ Unknow		a-Cement (CC crete	oncrete) Grout	Bentonite Chips
		1 =		(11 lb /==l ==4 \	Granular Bentonite
If Yes, To What Depth?	Feet		-	(11 lb /gal. wt.)	Bentonite - Cement Grou
Depth to Water (Feet) 11		· · =	tonite-Sand S		Bentonite - Sand Slurry
Deptitio Water (Feet)	<del></del>		tonite Chips	<del></del>	
(5) Material Used To Fi	ll Well/Drillhole	From (Ft.)	To (Ft.)	lbs. Sealant	Mix Ratio or Mud Weight
Bentonite Chips		Surface	16	24	
		_			
·					
(6) Comments: Abandoned by Geiss u	nder METCO supervision.				
`				· · · · · · · · · · · · · · · · · · ·	
(7) Name of Person or Firm Doing Sea	ling Work Date of Aband	donment			
Eric Dahl (METCO)	4/15/201	3	A THORNE THE PARTY OF THE PARTY	R DNR OR COUNTY U	SE ONLY
Signature of Person Doing Work	Date Signed	—— Date	Received	Noted By	
2 flow	5/17/13		iments		Territoria de la compansión de la compan
Street or Route	Telephone Number				
709 Gillette St. Ste. 3	(608)781-8879				
City, State, Zip Code	- 440-				
LaCrosse	wi 54603-				

#### SOIL BORING LOG INFORMATION

Form 4400-122

Rev. 7-98

Watershed / Wastewater:

Waste Management: Route To: Remediation / Redevelopment: Other Page Facility / Project Name License / Permit / Monitoring Number **Boring Number** Lueptow Property Boring Drilled By: Name of crew chief (first, last) and Firm Drilling Date Started Drilling Date Completed Drilling Method First: Darrin Last: Prentice 04/15/13 04/15/13 Geoprobe MM/ DD/ YYYY MM /DD/ YYYY Firm: Geiss Soil & Samples, LLC WI Unique Well No. DNR Well ID No. Borehole Diameter Well Name Final Static Water Level Surface Elevation Feet MSL 2 inches Local Grid Location Local Grid Origin (estimated X) or Boring Location Lat 44° 29' 16" State Plane Ν Long 91° 37' 11" SE% of NW% of Section 8 , T 23 N, R 10 W Feet S Feet W Facility ID County County Code Civil Town / City / Village Buffalo Town of Dover (Mondovi) Sample Soil Properties Number & Type Length Att. & Recovered (in) Depth in Feet (below ground surface) Compressive Strength Well Diagram Plasticity Index Blow Counts Graphic Log Liquid Limit PID / FID Soil / Rock Description Moisture Content 200 And Geologic Origin RQD / Comments For Each Major Unit G-6-1 SP-SM 0 М No Petro Odor 42 Tan sandy silt SP 0 М No Petro Odor G-6-2 42 Tan fine to medium grained sand (4-8 feet) \_10 No Petro Odor 42 Orange fine to coarse grained sand SP 0 М (8-12 feet) G-6-4 (12-16 feet) SP 0 No Petro Odo 42 \_16 Orange fine to coarse grained sand М \_18 SP 0 No Petro Odor G-6-5 (16-20 feet) 42 20 Orange fine to coarse grained sand М \_22 G-6-6 \_24 Orange fine to coarse grained sand SP 0 MW No Petro Odor (20-24 feet) G-6-W (19-24 feet) EOB 24 Feet Groundwater sample G-6-W collected.. Borehole Abandoned.

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

Signature:

**METCO** Firm:

#### WELL/DRILLHOLE/BOREHOLE ABANDONMENT Form 3300-5 2/2000 Page 1 of 2

Route to: Drinking Water Watershed/Wastewater Waste Manag	
(1) GENERAL INFORMATION	(2) FACILITY/OWNER INFORMATION
WI Unique Well No.   DNR Well ID No.   County	Facility Name
BUFFALO	Lueptow Property
Common Well Name G-6 Gov't Lot (If applicable)	Facility ID License/Permit/Monitoring No.
SÉ NUL S 27 10 DE	Street Address of Well
$\frac{S \not E}{\text{Grid Location}} \frac{1/4 \text{ of Sec.}}{\frac{g}{N}}; \text{ T.} \frac{23}{N}; \text{ R.} \frac{10}{N} \stackrel{\square}{\text{E}} \text{ [X] W}$	W448 County Road Z
	City, Village, or Town
ft. N. S.,ft. E W.	Mondovi
Local Grid Origin (estimated: ) or Well Location	Present Well Owner Original Owner
Lat. 44° 29' 16 " Long 91 37' 11 "or	Lisa Lueptow
s C N	Street Address or Route of Owner
St. Planeft. Nft. E. □□□ Zone	W448 County Road Z
Reason For Abandonment WI Unique Well No.	City, State, Zip Code
Sampling complete of Replacement Well	Mondovi WI 54755-
(3) WELL/DRILLHOLE/BOREHOLE INFORMATION	(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL
Original Construction Date 4/15/2013	Pump & Piping Removed? Yes No [X] Not Applicable Liner(s) Removed? Yes No [X] Not Applicable
☐ Monitoring Well	Tes   No [x] Not inplication
Water Well If a Well Construction Report	Screen Removed?  Yes No [X] Not Applicable Casing Left in Place?  Yes X No
[X] Borehole / Drillhole is available, please attach.	
Construction Type:	Was Casing Cut Off Below Surface?   X   Yes
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug	Did Sealing Material Rise to Surface? [X] Yes No
[X] Other (Specify) Geoprobe	Did Material Settle After 24 Hours? Yes [X] No
	If Yes, Was Hole Retopped? Yes No
Formation Type:  [X] Unconsolidated Formation Bedrock	Required Method of Placing Sealing Material
	Conductor Pipe-Gravity Conductor Pipe-Pumped
Total Well Depth (ft.) 24 Casing Diameter (in.) 2	Screened & Poured (Bentonite Chips) [X] Other (Explain) Gravity
(From groundsurface) Casing Depth (ft.)	Sealing Materials For monitoring wells and
	☐ Neat Cement Grout monitoring well boreholes only
Lower Drillhole Diameter (in.) 2	Sand-Cement (Concrete) Grout Bentonite Chips
Was Well Annular Space Grouted?	Concrete   X   Granular Bentonite
If Yes, To What Depth? Feet	Clay-Sand Shirry (11 lb/gal, wt.) i
	Bentonite-Sand Slurry " " Bentonite - Cement Grout
Depth to Water (Feet) 19	Bentonite Chips Bentonite - Sand Slurry
(5) Material Used To Fill Well/Drillhole	From (Ft.) To (Ft.) lbs. Sealant Mix Ratio
(6)	From (Ft.) To (Ft.) IDS. Sealant or Mud Weight
Bentonite Chips	Surface 24 36
(6) Comments: Abandoned by Geiss under METCO supervision.	
(0) Comments.	
(7) Name of Person or Firm Doing Sealing Work Date of Abandon	
Eric Dahl (METCO) 4/15/2013	FOR DNR OR COUNTY USE ONLY  Date Received   Noted By
Signature of Person Doing Work Date Signed	Date Meetitett Noteti-Dy
2 /or 5/19/13	Comments
Street or Route Telephone Number (608) 781-8879	
709 Gillette St. Ste. 3 (608 )781-8879  City, State, Zip Code	
LaCrosse WI 54603-	

#### SOIL BORING LOG INFORMATION

Form 4400-122

Route To:

Watershed / Wastewater:

Waste Management:

Х Remediation / Redevelopment:

Other:

Page Facility / Project Name License / Permit / Monitoring Number **Boring Number** Lueptow Property Boring Drilled By: Name of crew chief (first, last) and Firm **Drilling Date Completed Drilling Date Started Drilling Method** 04/15/13 Last: Prentice 04/15/13 Geoprobe Firm: Geiss Soil & Samples, LLC MM/ DD/ YYYY MM /DD/ YYYY WI Unique Well No. DNR Well ID No. Well Name Final Static Water Level Surface Elevation Borehole Diameter Feet MSL 2 inches Local Grid Origin (estimated X) or Boring Location Local Grid Location Lat 44° 29' 16" Ν N. Ε SE% of NW% of Section 8 , T 23 N, R 10 W Long 91° 37' 11" Feet S Feet W Facility ID County County Code Civil Town / City / Village Buffalo Town of Dover (Mondovi) Soil Properties Sample Depth in Feet (below ground surface) Number & Type & <u>:</u>E Diagram Blow Counts Compressiv Strength Liquid Limit Length Att. Recovered (i Moisture Content PID / FID Soil / Rock Description Graphic I And Geologic Origin For Each Major Unit **Plasticity** RQD / Comments Well G-7-1 (0-4 feet) SP-SM 0 М No Petro Odor Tan sandy silt G-7-2 (4-8 feet) 48 an to orange fine to coarse grained sand SP 0 No Petro Odor \_10 0 No Petro Odor G-7-3 48 12 Brown to tan fine to coarse grained sand SP М (8-12 feet) 0 No Petro Odor SP G-7-4 42 16 Orange fine to coarse grained sand М (12-16 feet) 18 SP 0 No Petro Odor G-7-5 48 20 Orange fine to coarse grained sand М (16-20 feet) 22 G-7-6 (20-24 feet) G-**7-**W 0 MW No Petro Odor 48 24 Green to orange fine to coarse grained sand SP EOB 24 Feet Groundwater sample G-7-W collected.. I hereby certify that the information on this form is true and correct to the best of my knowledge **METCO** Signature: Firm:

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.

#### WELL/DRILLHOLE/BOREHOLE ABANDONMENT Form 3300-5 2/2000 Page 1 of 2

Routeto: Drinking		ershed/Wastewate	er 🔲 Waste Manag								
(1) GENERAL INFORMATION WI Unique Well No.   DNR Well ID No.   County				(2) FACILITY/ OWNER INFORMATION							
wi Unique wen No.	DINK WEILID	1 .	41.0	Facility Name Lueptow Property							
	<u> </u>	BUFF.	ALU	Lueptow F   Facility ID	торегцу	I Lineway Downsit/	Manitanina Na				
Common Well Name	G-7	Gov'	t Lot (If applicable)	Facility ID		License/Permit/	Monitoring No.				
SF NW	50 8	<b>- 23</b>	V D 10 DE	Street Addre	ess of Well						
$\frac{SE}{Grid Location}$ 1/4 of $\frac{NW}{M}$	1/4 of Sec	; T. <u></u>	$N; R. \frac{10}{10} [X] W$	1	nty Road Z						
				City, Villag	•						
ft. [				Mondovi	,						
Local Grid Origin 🔲		_	_	Present Well	Owner	Original	Owner				
Lat. 44 ° 29 ' 1	6 " Lo	ong 91 ° 37	' !( "or	Lisa Lueptov							
			SCN		ess or Route	of Owner					
St. Plane					nty Road Z						
Reason For Abandonm	1	VI Unique Well N		City, State,	Zip Code						
Sampling complete		f Replacement W		Mondovi		WI 54755-					
(3) WELL/DRILLH	OLE/BOREH	OLE INFORMA	TION				& SEALING MATERIAL				
Original Construct	ion Date 4/15	5/2013			Piping Remo		No X Not Applicable				
☐ Monitoring We	ell .				Removed?	=	No X Not Applicable				
Water Well			ruction Report	•	Removed?		No X Not Applicable				
X Borehole / Dril	lhole	is available, ple	ease attach.	Casing	Left in Place?	∐ Yes	X] No				
Construction Type:				Was Ca	sing Cut Off	Below Surface?	X] Yes $\square$ No				
Drilled		n (Sandpoint)	☐ Dug	Did Sea	ling Material	Rise to Surface?	[X] Yes 🔲 No				
		i (Sandpoint)	<b>–</b> °	Did Mat	erial Settle A	fter 24 Hours?	Yes X No				
[X] Other (Specify)	) Geoprobe			If Yes	, Was Hole R	etopped?	Yes No				
Formation Type:		_		Require	d Method of	Placing Sealing Mate	erial				
[X] Unconsolidated	l Formation	☐ Bedro	ck	☐ Cond	ductor Pipe-G	ravity Condi	uctor Pipe-Pumped				
Total Well Depth (ft.)	. 24	Casing Diameter	(in) 2		ened & Pour	ed $[x]$ Other	r (Explain) Gravity				
(From groundsurface)				<u> </u>	ntonite Chips	5)	Gravity				
(2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		Casing Depth (ft	i.)	. —	Materials		or monitoring wells and				
Lower Drillhole Dian	neter (in.) $\underline{2}$			. =	Cement Gro		onitoring well boreholes only				
Was Well Annular S	nace Growted?	□ Ves □	No.	. =		ncrete) Grout	Bentonite Chips				
			_	∐ Соло		(11 11 /1/ )	X] Granular Bentonite				
If Yes, To What	:Depth?		Feet		onite-Sand S	(11 lb./gal. wt.)	Bentonite - Cement Grou				
Depth to Water (Feet	19			_	onite-Said S tonite Chips		Bentonite - Sand Slurry				
Depth to Water (1 cer				Belli	lointe Chips		<del></del> -,				
(5) Mate	rial Used To F	ill Well/Drillhole		From (Ft.)	To (Ft.)	lbs. Sealant	Mix Ratio or Mud Weight				
				S. C	<u>.                                    </u>		1				
Bentonite Chips				Surface	24	36					
				}							
				L	L	L					
(6) Comments: Abando	oned by Geiss u	ınder METCO su	pervision.								
	<del></del>	<del></del>		<del></del>							
(7) Name of Person or I	dirm Doing Sea	aling Work	Date of Abandon	ment	FOI	I DADE OR COVEY	A SIGN ONLY				
Eric Dahl (METCO)			4/15/2013	Data	Received	R DNR OR COUNTY   Noted By	Y USE ONLY				
Signature of Person Do	-	Date	e Signed	Date	Meterven	Troieu By					
E /m	<u> </u>		5/14/13	Com	ments	L. L. L. L. L. L. L. L. L. L. L. L. L. L					
Street or Route		Telephone N				100					
709 Gillette St. Ste. 3	5	(608)7	01-99/3								
City, State, Zip Code		wi 54603	_								
LaCrosse		771 37003									

#### SOIL BORING LOG INFORMATION

Form 4400-122

Rev. 7-98

RO	HE	

Watershed / Wastewater:
Remediation / Redevelopment: X

Waste Management:

other:\_

											Page	1	of	
Facility / P					License	e / Perm	it / Monit	toring N	umber				Boı	ring Number
Lueptow F													G-8	
		Name		ief (first, last) and Firm	Drilling	Date St			Drilling			d	Dri	lling Method
	Darrin			Prentice		04/15/13				04/15/13			Ge	oprobe
Wi Unique \			ples, LLC Vell ID No.	Well Name		// DD/ YY al Static '		evel		/DD/ YY	<u>YY</u> Elevatio	n		orehole Diameter
				vveii rvaine	1 1110			CVCI	0	urrace i	Lievatio	''	В	
Local Grid	Origin	(actima	ted Y) or l	Boring Location		Feet	MSL			Local G	rid Loca	ation	—	2 inches
State Plane		N,	E	Borning Edication	lat 44	° 29'	16"			Lucai G N		E		
			8 ,T 23 I	N. R. 10 W		91° 37'					Feet			
	cility ID		•	County	<u> </u>		County	/ Code			ivil Tow		/ V	illage
				Buffalo			6	6		Т	own of [	Dover (	Mor	idovi)
	San	nple							ropertie					,
/pe	& in)	y,	nd et			9	Е		ø ·		it	ex	П	•
∞ √	Att. ed (	Blow Counts	Fe זיסיון ce)	Soil / Rock Description	S	Graphic Log	Well Diagram	PID / FID	gth	Moisture Content	Liquid Limit	lnd /		
рег	gth	ن ≥	oth ir ow g	And Geologic Origin For Each Major Unit	Ø	jhdr	ä	/ □	Tren	loist	pin	ticity	P 200	RQD / Comments
Number & Type	Length Att. & Recovered (in)	90	Depth in Feet (below ground surface)	i or East Major Stift		ຍ	Wel	Δ.	Compressive Strength	≥0	Liq	Plasticity Index	i I	
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			<u> </u>											
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G-8-1			-	0-3' Tan sandy silt	SP-SM	14.11								
(0-4 feet)	42		- 4	3'-4' Orange very fine to fine grained sand	SP			0	l i		м			No Petro Odor
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G-8-2	36		8	Orangevery fine to fine grained sand	SP			0			М			No Petro Odor
(4-8 feet)			_					}						
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G-8-3 (8-12 feet)	42		12	Orange fine to medium grained sand	SP	· .	[	0	Į į		М			No Petro Odor
			}-			<b>.</b>								
		İ	<u>-</u> - <sub>14</sub>			. ' •	[	l	ļ					
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G-8-4	48		16	Orange fine to medium grained sand	SP			0		Ì	м			No Petro Odor
(12-16 feet)			-	·		· . ·		1			}	1		
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G-8-5 (16-20 feet)	36		20	Orange fine to coarse grained sand	SP	11	ļ	0			М	ļ		No Petro Odor
(,			-											
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			22			<b>A</b> ,								
				•••••••••		1: 7 - 7	4	1	}					
G-8-6	48		- - <sub>24</sub>	Orange fine to coarse grained sand	SP			0			MW			No Petro Odor
(20-24 feet)	10		<sup>2-7</sup>		-	- - <u>-</u> -	ł	ľ	1			1	1	1101 6110 0001
G-8-W (19-24feet)				EOB 24 Feet Groundwater sample G-8-W collected Borehole <b>Ab</b> andoned.				1	1		İ			
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				1								ļ		
		1		1										
hereby c	ertify th	at the ir	nformation	on this form is true and correct to the best	of my k	nowleda	e	1					<u>.                                    </u>	1
Signature				7	,				Firm:	ME	TCO			
-	_		/ /	/										

#### WELL/DRILLHOLE/BOREHOLE ABANDONMENT Form 3300-5 2/2000 Page 1 of 2

Route to: Drinking Water Watershed/Wastewater Waste Manag								
(1) GENERAL INFORMATION	(2) FACILITY/OWNER INFORMATION							
WI Unique Well No.   DNR Well ID No.   County	Facility Name							
BUFFALO	Lueptow Property							
Common Well Name G-8 Gov't Lot (If applicable)	Facility ID License/Permit/Monitoring No.							
SE 1/4 of $\frac{NW}{N}$ 1/4 of Sec. $\frac{8}{3}$ ; T. $\frac{23}{N}$ ; R. $\frac{10}{N}$ [X] W	Street Address of Well							
Grid Location [X] W	W448 County Road Z							
ft. N. S.,ft. E W.	City, Village, or Town							
Local Grid Origin (estimated: ) or Well Location	Mondovi Present Well Owner Original Owner							
Lat. 44° 29' 16 " Long 91° 37' 11 "or	Lisa Lueptow							
S C N	Street Address or Route of Owner							
St. Planeft. Nft. E. \( \sum \subseteq \ \zeta\) Zone Reason For Abandonment \( \subseteq \subseteq \subseteq \subseteq \subseteq \ \subseteq \si	W448 County Road Z							
Sampling complete of Replacement Well	Mondovi WI 54755-							
(3) WELL/DRILLHOLE/BOREHOLE INFORMATION	(4) PUMP, LINER, SCREEN, CASING, & SEALING MATER							
Original Construction Date 4/15/2013	Pump & Piping Removed? Yes No [X] Not Application Liner(s) Removed? Yes No [Y] Not Application Pressure No [Y] Not Application No [Y] Not Application Pressure No [Y] Not Application No [Y] No [Y] Not Application No [Y]							
☐ Monitoring Well								
Water Well If a Well Construction Report	Screen Removed? Yes No [X] Not Application Place? Yes X No							
[X] Borehole / Drillhole is available, please attach.								
Construction Type:	Was Casing Cut Off Below Surface?   X   Yes   No							
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug	Did Sealing Material Rise to Surface? [X] Yes No							
[X] Other (Specify) Geoprobe	Did Material Settle After 24 Hours? Yes [X] No							
Formation Type:	If Yes, Was Hole Retopped? Yes No							
[X] Unconsolidated Formation Bedrock	Required Method of Placing Sealing Material							
	Conductor Pipe-Gravity Conductor Pipe-Pumped							
Total Well Depth (ft.) 24 Casing Diameter (in.) 2	Screened & Poured (Bentonite Chips) [X] Other (Explain) Gravity							
(From groundsurface) Casing Depth (ft.)	Sealing Materials For monitoring wells and							
Lower Drillhole Diameter (in.) _2	Neat Cement Grout monitoring well boreholes only							
Was Well Annular Space Grouted? Yes No Unknown	Sand-Cement (Concrete) Grout Bentonite Chips							
	Concrete   X Granular Bentonite							
If Yes, To What Depth? Feet	☐ Clay-Sand Slurry (11 ib./gal. wt.) ☐ Bentonite-Sand Slurry " " Bentonite - Cement C							
Depth to Water (Feet) 19	Bentonite Chips Bentonite - Sand Slu							
Product of the Control of the Contro	Mix Ratio							
(5) Material Used To Fill Well/Drillhole	From (Ft.) To (Ft.) lbs. Sealant or Mud Weigh							
Bentonite Chips	Surface 24 36							
(6) Comments: Abandoned by Geiss under METCO supervision.								
(6) Comments: Abandoned by Geiss under METCO supervision.								
(7) Name of Person or Firm Doing Sealing Work  Date of Abandor	FOR DNR OR COUNTY USE ONLY							
Eric Dahl (METCO) 4/15/2013	Date Received Noted By							
Signature of Person Doing Work  Date Signed  5/14//3								
Street or Route Telephone Number	Comments							
709 Gillette St. Ste. 3 (608) 781-8879								
City, State, Zip Code								
LaCrosse WI 54603-								

Signature:

#### SOIL BORING LOG INFORMATION

Form 4400-122

Rev. 7-98

Watershed / Wastewater:

Route To: Waste Management: Х Remediation / Redevelopment: Other: Page of 1 Facility / Project Name License / Permit / Monitoring Number **Boring Number** Lueptow Property Boring Drilled By: Name of crew chief (first, last) and Firm Drilling Date Started **Drilling Date Completed Drilling Method** 04/15/13 04/15/13 First: Darrin Last: Prentice Geoprobe Finn: Geiss Soil & Samples, LLC MM/ DD/ YYYY MM /DD/ YYYY WI Unique Well No. DNR Well ID No. Well Name Final Static Water Level Surface Elevation Borehole Diameter Feet MSL 2 inches Local Grid Location Local Grid Origin (estimated X) or Boring Location State Plane Lat 44° 29' 16" N Ε N, Long 91 ° 37 ' 11 " Feet S SE% of NW% of Section 8 , T 23 N, R 10 W Feet W Facility ID County County Code Civil Town / City / Village Buffalo Town of Dover (Mondovi) Soil Properties Sample Length Att. & Recovered (in) Number & Type Depth in Feet (below ground surface) Compressive Strength Plasticity Index Well Diagram Blow Counts Graphic Log Liquid Limit USCS PID / FID Moisture Content Soil / Rock Description And Geologic Origin RQD / Comments For Each Major Unit Concrete G-9-1 (0-4 feet) SP-SM 0 М No Petro Odor 42 Green sandy silt 0 No Petro Odor G-9-2 36 Tan fine to medium grained sand SP М (4-8 feet) \_10 SP 0 М No Petro Odor G-9-3 42 12 Tan fine to coarse grained sand (8-12 feet) G-9-4 48 \_\_16 Orange fine to coarse grained sand SP Ð М No Petro Odor (12-16 feet) 36 20 Orange fine to coarse grained sand SP 0 М No Petro Odor (16-20 feet) \_22 \_24 SP 0 MW No Petro Odor G-9-6 Orange fine to coarse grained sand (20-24 feet) G-9-W EOB 24 Feet Groundwater sample G-9-W collected.. Borehole Abandoned. (19-24 feet) 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 foreiture 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** 

### State of Wisconsin Department of Natural Resources

### WELL/DRILLHOLE/BOREHOLE ABANDONMENT Form 3300-5 2/2000 Page 1 of 2

Notice: Please complete Form 3300-5 and return it to the appropriate DNR office and bureau. Completion of this report is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file this form may result in a forteiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See the instructions for more information.

	atershed/Wastewater					
(1) GENERAL INFORMATION				ER INFOR	MATION	
WI Unique Well No. DNR Well I	D No. County	Facility Na				
	BUFFALO	Lueptow	Property			
	Gov'tLot (If applicable)	,		License/	Permit/Mo	nitoring No.
SE 1/4 of NW 1/4 of Sec.	$\frac{9}{1}$ ; T. $\frac{2^3}{10}$ N; R. $\frac{10}{10}$ [X] w		ess of Well inty Road Z			
		City, Villag				
Local Grid Origin (estimate	,ft. ☐ E. ☐ W.	Mondovi				
		Present Wel		C	riginal Ov	vner
Lat. 44° 29' 16 "	Long $91  37  tt$ or	Lisa Luepto	w ess or Route	of Owner		
	ft. E. DDD Zone	W448 Cot	ınty Road Z	or Owner		
	WI Unique Well No.	City, State,	Zip Code			
	of Replacement Well	Mondovi		WI 54	755-	
(3) WELL/DRILLHOLE/BORE	HOLE INFORMATION	(4) PUMP,	LINER, SC	REEN, CAS	SING, & S	EALING MATERIA
Original Construction Date 4/1	15/2013	Pump &	Piping Rem	oved?	Yes 🗌	No X Not Applicable
		Liner(s)	Removed?		Yes 🗌	No [X] Not Applicable
Monitoring Well	If a Well Construction Report	•	Removed?		Yes 🗍	No X Not Applicable
	is available, please attach.	Casing	Left in Place	?	Yes X	No
Construction Type:		1	•	Below Surface	14	Yes No
	en (Sandpoint) Dug	Did Sea	ling Material	Rise to Surfa	ice? [X]	Yes 🔲 No
X Other (Specify) Geoprobe	on (cancepoint)			After 24 Hour	_	Yes [X] No
Formation Type:		·	s, Was Hole F			Yes No
[X] Unconsolidated Formation	☐ Bedrock	Required Method of Placing Sealing Material				
		_	ductor Pipe-C			or Pipe-Pumped
Total Well Depth (ft.) 24	Casing Diameter (in.) 2	∐ Scre (Be	ened & Pour entonite Chip	red [3 s)	J Other (E	xplain) Gravity
(From groundsurface)	Casing Depth (ft.)	Sealing	Materials		For m	onitoring wells and
Lower Drillhole Diameter (in.)	2	. =	t Cement Gro			oring well boreholes on
Was Well Annular Space Grouted	i? ☐ Yes ☐ No ☐ Unknown	Sand-Cement (Concrete) Grout Bentonite Chips				
If Yes, To What Depth? Feet		Clay-Sand Slurry (11 lb./gal. wt.)				
It les, to what Depth!		Bentonite-Sand Slurry " " Bentonite - Cement Grou				
Depth to Water (Feet) 19		. =	tonite Chips	•	. 🗖	Bentonite - Sand Slurry
(5) Material Used To	Fill Well/Drillhole	From (Ft.)	To (Ft.)	lbs. Sea	lant	Mix Ratio or Mud Weight
Bentonite Chips		Surface	24	36		
		<del></del>		<del> </del>		
(6) Comments: Abandoned by Geiss	s under METCO supervision.					
(7) Name of Person or Firm Doing Sealing Work  Date of Abandonment						
Eric Dahl (METCO)  4/15/2013  FOR DNR OR COUNTY USE ONLY  Date Received  Noted By			SE ONLY			
Signature of Person Doing Work	Date Signed	Date	ACCEIVEU	1100	u Dj	
Street or Route	Telephone Number	Com	ments			
709 Gillette St. Ste. 3	( 608 ) 781-8879					
City, State, Zip Code	( 000 //01-00/9					
LaCrosse	wi 54603-					

Signature:

### SOIL BORING LOG INFORMATION

Form 4400-122

Rev. 7-98

Route To:

Watershed / Wastewater:

Waste Management:

Х Remediation / Redevelopment: Other: Page of 1 Facility / Project Name License / Permit / Monitoring Number **Boring Number** Lueptow Property G-10 Boring Drilled By: Name of crew chief (first, last) and Firm **Drilling Date Started Drilling Date Completed Drilling Method** First: Darrin Last: Prentice 04/15/13 04/15/13 Geoprobe Firm: Geiss Soil & Samples, LLC MM/ DD/ YYYY MM /DD/ YYYY WI Unique Well No. DNR Well ID No. Well Name Final Static Water Level Surface Elevation Borehole Diameter 2 inches Feet MSL Local Grid Origin (estimated X) or Boring Location Local Grid Location State Plane N, Lat 44° 29' 16" Ν Ε Long 91° 37' 11 SE% of NW% of Section 8, T 23 N, R 10 W Feet S Feet W Facility ID County County Code Civil Town / City / Village Buffalo Town of Dover (Mondovi) Soil Properties Sample **Number & Type** Depth in Feet (below ground surface) Compressive Strength & Œ Well Diagram Blow Counts Liquid Limit Length Att. Recovered (i 밆 Moisture Content Soil / Rock Description USCS Graphic L Plasticity RQD / Comments And Geologic Origin PID/ For Each Major Unit G-10-1 (0-4 feet) SP-SM O м No Petro Odor 42 Brown sandy silt 6 SP-SM 4'-7' Brown sandy silt G-10-2 36 0 М No Petro Odor 7'-8' Orange fine to medium grained sand \_10 SP 0 М No Petro Odo 42 \_12 Orange fine to coarse grained sand (8-12 feet) G-10-4 \_\_16 SP 0 М No Petro Odor Tan to green fine to coarse grained sand (12-16 feet) 18 G-10-5 36 20 Tan to green fine to coarse grained sand SP 0 М No Petro Odor (16-20 feet) \_22 SP 0 MW No Petro Odor \_24 G-10-6 Tan to green fine to coarse grained sand (20-24 feet) G-10-W EOB 24 Feet Groundwater sample G-10-W collected.. (19-24 feet) Borehole Abandoned. 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** 

### State of Wisconsin Department of Natural Resources

### WELL/DRILLHOLE/BOREHOLE ABANDONMENT Form 3300-5 2/2000 Page 1 of 2

Notice: Please complete Form 3300-5 and return it to the appropiate DNR office and bureau. Completion of this report is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file this form may result in a forteiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See the instructions for more information.

Route to: Drinking Water Watershed/Wastewater Waste Manag	ement [X] Remediation/Redevelopment Other		
(1) GENERAL INFORMATION	(2) FACILITY/ OWNER INFORMATION		
WI Unique Well No.   DNR Well ID No.   County	Facility Name		
BUFFALO	Lueptow Property		
Common Well Name G-10 Gov't Lot (If applicable)	Facility ID License/Permit/Monitoring No.		
$S\overline{L}$ 1/4 of $N\overline{W}$ 1/4 of Sec. $\overline{B}$ ; T. $2\overline{J}$ N; R. $1\overline{D}$ $ X $	Street Address of Well		
Grid Location   X  W	W448 County Road Z		
ft. N. S.,ft. E. W.	City, Village, or Town		
Local Grid Origin (estimated: ) or Well Location	Mondovi		
	Present Well Owner Original Owner		
Lat. 44° 29' 16 " Long 91° 37' 11, "or	Lisa Lueptow Street Address or Route of Owner		
St. Planeft. Nft. E. DDD Zone  Reason For Abandonment	W448 County Road Z		
Reason For Abandonment WI Unique Well No.	City, State, Zip Code		
	Mondovi WI 54755-		
(3) WELL/DRILLHOLE/BOREHOLE INFORMATION	(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL		
Original Construction Date 4/15/2013	Pump & Piping Removed? Yes No X Not Applicable		
_	Liner(s) Removed? Yes No [X] Not Applicable		
Monitoring Well  If a Well Construction Report	Screen Removed? Yes No X Not Applicable		
is available, please attach.	Casing Left in Place? Yes X No		
X Borehole / Drillhole	Was Casing Cut Off Below Surface?   X Yes No		
Construction Type:			
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug	Did Sealing Material Rise to Surface? [X] Yes No		
[X] Other (Specify) Geoprobe	Did Material Settle After 24 Hours? Yes [X] No  If Yes, Was Hole Retopped? Yes No		
Formation Type:	Required Method of Placing Sealing Material		
[X] Unconsolidated Formation	Conductor Pipe-Gravity Conductor Pipe-Pumped		
24			
Total Well Depth (ft.) 24 Casing Diameter (in.) 2	Screened & Poured (Bentonite Chips) [X] Other (Explain) Gravity		
(From groundsurface) Casing Depth (ft.)	Sealing Materials For monitoring wells and		
Lower Drillhole Diameter (in.) 2	Neat Cement Grout monitoring well boreholes only		
Was Well Annular Space Grouted? Yes No Unknown	Sand-Cement (Concrete) Grout Bentonite Chips Concrete		
. – –	Clay-Sand Slurry (11 lb./gal. wt.)		
If Yes, To What Depth? Feet	Bentonite-Sand Slurry " " Bentonite - Cement Grou		
Depth to Water (Feet) 19	Bentonite Chips Bentonite - Sand Slurry		
(5) Material Used To Fill Well/Drillhole	From (Ft.) To (Ft.) lbs. Sealant Mix Ratio or Mud Weight		
Bentonite Chips	Surface 24 36		
(6) Comments: Abandoned by Geiss under METCO supervision.			
(6) Comments: Available by Geiss under METCO supervision.			
(7) Name of Person or Firm Doing Sealing Work Date of Abandons	ment		
Eric Dahl (METCO) 4/15/2013 FOR DNR OR COUNTY USE ONLY			
Signature of Person Doing Work  Date Signed  Date Received  Noted By			
Signature of Person Doing Work  Date Signed			
Street or Route Telephone Number	Comments		
709 Gillette St. Ste. 3 (608) 781-8879			
City, State, Zip Code LaCrosse WI 54603-			

# APPENDIX D/ 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 <sup>5</sup>	Site Investigation, Pretreatment and Posttreatment Sample Analysis <sup>11</sup>
Regular Gasoline	GRO <sup>2</sup>	Free Liquids <sup>6</sup> GRO Benzene <sup>7</sup> Pb <sup>7</sup> Haz. Waste Deter. <sup>8</sup>	GRO VOC/PVOC <sup>15</sup> Pb <sup>12</sup>
Unleaded Gasoline; Grades 80 100, and 100 LL (Low Lead) Aviation Fuel	GRO²	Free Liquids <sup>6</sup> GRO Benzene <sup>7</sup> Pb <sup>7</sup> Haz. Waste Deter. <sup>8</sup>	GRO PVOC
Diesel; Jet Fuels; and No's 1, 2, and 4 Fuel Oil	DRO³	Free Liquids <sup>6</sup> DRO Benzene <sup>7</sup> Haz. Waste Deter. <sup>8</sup>	DRO <sup>3</sup> PVOC PAH <sup>13</sup> <sup>14</sup>
Crude Oil; Lubricating Oils; No. 6 Fuel Oil	DRO³	Free Liquids <sup>6</sup> DRO Haz. Waste Deter. <sup>8</sup>	DRO <sup>3</sup> PAH <sup>13</sup> <sup>14</sup>
Unknown Petroleum	GRO <sup>7</sup> and DRO <sup>3</sup> <sup>4</sup>	Free Liquids <sup>6</sup> GRO and DRO Pb, Cd <sup>7</sup> Haz. Waste Deter. <sup>8</sup> CN <sup>19</sup> S <sup>2 10</sup>	GRO and DRO <sup>3 4</sup> VOC/PVOC <sup>15</sup> PAH <sup>13 14</sup> Pb, Cd <sup>12</sup>
Waste Oil	DRO <sup>3</sup>	Free Liquids <sup>6</sup> DRO Pb, Cd <sup>7</sup> Haz. Waste Deter. <sup>8</sup> CN <sup>19</sup> S <sup>2 10</sup>	DRO <sup>3</sup> VOC/PVOC <sup>15</sup> PAH <sup>13</sup> <sup>14</sup> PCBs <sup>16</sup> Pb, Cd <sup>12</sup>

# Abbreviations:

- GRO Gasoline Range Organics, Determined by the Wisconsin Modified GRO Method
- DRO Diesel Range Organics, Determined by the Wisconsin Modified DRO Method
- VOC Volatile Organic Compounds (See Section 11.1 for a list of VOC compounds)
- PVOC Petroleum Organic Compounds (See Section 11.2 for a list of PVOC compounds)
- PAH Polynuclear Aromatic Hydrocarbons (See Section 11.3 for a list of the PAH compounds)
- PCBs Polychlorinated Biphenyls
- Pb Lead

# SYNERGY ENVIRONMENTAL LAB – Sample Bottle Requirements

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

Test	Original Sample	Preserved	Holding Time to
	Container		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 H₂SO₄	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 H₂SO₄	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 H₂SO₄	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 <sub>2</sub> SO <sub>4</sub>	28 days
Phosphorus, Total EPA 365.3	250 mL HDPE	4°C, pH<2 with H₂SO <sub>4</sub>	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			i dayo
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 HNO <sub>3</sub>	28 days
ORGANICS			
	1 Liter amber glass,		
Semivolatiles SW846 8270C	collect 2 for one of the	4°C	7 days extr.
, OGITH VOIGHINGS GVVO 40 027 00	samples submitted .		40 days following extr
	1 Liter amber glass,		
PAH SW846 8270C	collect 2 for one of the	4°C	7 days extr.
	samples submitted		40 days following extr
	1 Liter amber glass,	· · · · · · · · · · · · · · · · · · ·	
PCB SW846 8082	collect 2 for one of the	4°C	7 days extr.
	samples submitted.		40 days following extr
DRO, Modified DNR Sep 95	1 Liter amber glass with	4°C, 5 mL 50% HCl	7 days extr.
	Teflon lined cap	4 0, 3 IIL 30% HOI	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 uays
GRO/VOC	(4) 40 mL glass vials with Teflon lined septum caps	4°C, 0.5 mL 50% HCl prior to adding sample to jar	14 days
GRO, Modified DNR Sep 95	(2) 40 mL glass vials with Teflon lined septum caps	4°C, 0.5 mL 50% HCl prior to adding sample to jar	14 days
GRO/PVOC	(2) 40 mL glass vials with Teflon lined septum caps	4°C, 0.5 mL 50% HCl prior to adding sample to jar	14 days
PVOC	(2) 40 mL glass vials with Teflon lined septum caps	4°C, 0.5 mL 50% HCl prior to adding sample to jar	14 days
	1 Tonor mica ocptain caps	outiple to jui	I

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	llection
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						
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	NA	14 days	40 days

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

(b) No soil contamination is present at the site that exceeds any of the soil screening levels in Table 1.

<u>Table 1</u> <u>Indicators of Residual Petroleum Product in Soil Pores</u>

•	Soil Screening
	Levels (mg/kg)
Benzene	<u>8.5</u>
<u>1.2-DCA</u>	0:6
Ethylbenzene	4.6
<u>Toluene</u>	38
<u>Xylene</u>	42
1.2.4 - Trimethylbenzene	83
1,3,5 - Trimethylbenzene	11
Naphthalene	2.7

(c) There is no soil contamination within 4 feet of the ground surface that exceeds any of the direct contact soil contaminant concentrations for the substances listed in Table 2.

<u>Table 2</u>
Protection of Human Health from Direct Contact with
Contaminated Soil

Substance	Soil Contaminant
	Concentrations
_	(Top 4 ft of the soil) (mg/kg)
Benzene	1.10
1,2-Dichloroethane (DCA)	0.54

l.

# HAZARDOUS SUBSTANCE/WASTE RELEASES:

#### INTERIM SOIL CLEANUP GUIDELINES -- PETROLEUM CONTAMINATION

#### DNR Closeout Action

<= NR 720 <= 250 ppm Less Permeable Close (K<=10 E-6 cm/s)

(1) BTEX: proposed criteria developed in preparation of NR 720:

Benzene 5.5 ug/kg
Toluene 1500 ug/kg
Ethylbenzene 2900 ug/kg
Xylenes 4100 ug/kg
1,2-DCA 4.9 ug/kg

(2) K: Saturated hydraulic conductivity

cleanup levels for the polycyclic aromatic hydrocarbons (PAHs). The generic GRO/DRO soil cleanup levels included in s. NR 720.09(4), Wis. Adm. Code, were developed as "catch-alls" for other petroleum compounds with consideration of the PAHs in mind. However, GRO and DRO are indicator parameters for petroleum contamination and situations are likely where these are not adequate or appropriate.

The PAHs include more than a hundred compounds with fused benzene rings. They comprise a large family of compounds with a rather large range of toxic potency (IARC, 1983; Santodonato et al., 1981). PAHs are products of incomplete combustion and are components of petroleum. They are ubiquitous in the environment from both natural and anthropogenic sources. PAI-Is are seldom found separately in the environment; rather, they occur as complex mixtures of numerous compounds. The specific PAH compounds addressed in this guidance are shown in Table 1. While these compounds are likely to be the most common PAHs encountered at most sites (ATSDR, 1995a; 1995b), their inclusion does not imply that these are the only PAH compounds of concern. Additional PAH compounds may be of concern at some sites and these should be evaluated on a site-specific basis.

Previous approaches to developing soil cleanup levels for PAHs have typically assumed that all carcinogenic PAHs are equipotent to benzo[a]pyrene (BaP). It has become apparent in recent years that the equipotency approach results in an overestimation of the carcinogenic risks associated with PAHs (U.S. EPA, 1993; LaGoy and Quirk, 1994). The basis for establishing risk-based soil cleanup levels for "total PAHs" relies on assumptions regarding the composition of a PAH mixture combined with assumed equipotency with benzo[a]pyrene or toxic equivalency factors. Thus, cleanup levels for "total PAHs" are inherently site-specific and generic values tend to be overly conservative.

### Development of Suggested Generic Soil Cleanup Levels for PAHs

The suggested generic soil cleanup levels for PAHs provided in this guidance were developed consistent with the methodology used in developing the generic RCLs in ch. NR 720, Wis. Adm. Code, and with the procedures outlined in s. NR 720.19(4)-(5), Wis. Adm. Code. The suggested generic residual contaminant levels (RCLs) for individual PAH compounds are shown in Table 1.

Table 1. – Suggested generic residual contaminant levels (RCLs) for PAH compounds in soil (mg/kg)

		Groundwater	Direct Contact	ct Pathway
Compound	CAS#	Pathway	Non-industrial	Industrial
acenaphthene	83-32-9	38	900	60000
acenaphthylene	208-96-8	0.7	18	360
anthracene	120-12-7	3000	5000	300000
benz[ <i>a</i> ]aṇthracene	56-55-3	17	0.080	3.9
benzo[ <i>a</i> ]pyrene	50-32-8	48	0.0080	0.39
benzo[b]fluoranthene	205-99-2	360	080.0	3.9
benzo[ <i>glil</i> ]perylene	191-24-2	6800	1.8	39
benzo[k]fluoranthene	207-08-9	870	0.00	39
chrysene	218-01-9	37	8.8	390
dibenz[ <i>ah</i> ]anthracene	53-70-3	30	0.0088	0.39
fluoranthene	206-11-0	500	600	40000
fluorene	86-73-7	100	600	40000
indeno[123- <i>cd</i> ]pyrene	193-39-5	680	0.088	3.9
1-methyl naphthalene	90-12-0	23	1100	<b>7</b> 0000
2-methyl naphthalene	91-57-6	20	600	40000
naphthalene	91-20-3	0.4	20	110
phenanthrene	85-01-8	1.8	18	390
pyrene	129-00-00	8700	500	30000

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

Wastewater of Sittinge, WillCh's Not a fairld displeasi system. History: Cr. Register, S-ptember, 1985, No. 357, eff. 10-1-85; cr. (1m), am (7), (17) and (18), Register, October, 1988, No. 394, eff. 11-1-88; am (6), cr. (20h) and (20m), Register, March, 1994, No. 459, eff. 4-1-94; cr. (1s), (10e), (10s), (20k), r. and recr. (12), (13), Register, August, 1995, No. 476, eff. 9-1-95; cr. (14m), Register, Cotober, 1996, No. 490, eff. 11-1-96; am (20), Register, Dearmber, 1998, No. 316, eff. 1-1-99; correction in (9) made under s. 13.93 (2m) (b) 7., Stats., Register, April, 2001, No. 544; CR02-134; cr. (1u), (1w), (1y) and (20s) Register June 2003 No. 570, eff. 7-1-03.

Subchapter II — Groundwater Quality Standards

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

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

Table 1
Public Health Groundwater Quality Standards

T UI	lic Health Groundwater Quality Standa  Enforcement Standard (micrograms	Preventive Action Limit (micrograms
Substance <sup>l</sup>	per liter – except as noted)	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	1
Asbestos	7 million fibers per liter (MFL)	0.7 MFL
Atrazine, total chlorinated residues	3 <sup>2</sup>	0.3 <sup>2</sup>
Bacteria, Total Coliform	$0^3$	$0^{3}$
Barium	2 milligrams/liter (mg/l)	0.4 mg/l
Bentazon	300	60
Benzone	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
Bromornethane	10	1
Butylate	400	80
Cadmium	5	0.5
Carbaryl	40	4
Carbofiiran	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
•	0.2	0.02
Chrysene	U.Z	0.02

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Table 1 — Continued
Public Health Groundwater Quality Standards

Public Health Groundwater Quality Standards			
Substance <sup>1</sup>	Enforcement Standard (micrograms per liter – except as noted)	Preventive Action Limit (micrograms per liter – except as noted)	
Cobalt	40	8.	
Соррет	1300	130	
Cyanazine	1	0.1	
Cyanide, free <sup>4</sup>	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	
Dicarriba	300	60	
1,2-Dichlorobenzene	600	60	
1,3-Dichlorobenzene	600	120	
•	75	15	
1,4-Dichlorobenzene	1000		
Dichlorodifluoromethane		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	
Dinethenamid/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 <sup>5</sup>	0.05	0.005	
Dinoseb	7	1.4	
1,4-Dioxane	3	0.3	
Dioxin (2, 3, 7, 8-TCDD)	0.00003	0.000003	
Endrin	2	0.4	
EPTC	250	50	
Ethylbenzene	700	140	
Ethyl ether	1000	100	
Ethylene glycol	$14\mathrm{mg/l}$	2.8 mg/l	
Fluoranthene	400	80	
Fluorene	400	80	
Fluoride	4 mg/l	0.8 mg/l	
Fluorotrichloromethane	3490	698	
Formaldehyde	1000	100	
Heptachlor	0.4	0.04	
Heptachlor epoxide	0.2	0.02	
Hexachlorobenzene	1 .	0.1	
N-Hexane	600	120	
Hydrogen sulfide	30	6	
Lead	15	1.5	
Lindane	0.2	0.02	
Manganese	300	60	
Mercury	2	0.2	

# $\label{thm:conditional} \mbox{Unofficial Text (See Printed Volume). } \mbox{Ourrent through date and Register shown on Title Page.}$

Table 1 — Continued
Public Health Groundwater Quality Standards

Public Health Groundwater Quality Standards			
	Enforcement Standard (micrograms	Preventive Action Limit (micrograms	
Substance <sup>1</sup>	per liter — except as noted)	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 നളി	
Methyl isobutyl ketone (MIBK)	500	50	
Methyl tert-butyl ether (MIBE)	60	12	
Metolachlor/s-Metolachlor	100	10	
Metolachlor ethane sulfonic acid + oxanilic acid (Metolachlor - ESA + OXA)	1.3 mg/1	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)	l mg/l	0.2 mg/l	
N-Nitrosodiphenylamine	7	0.7	
Pentachlorophenol (PCP)	1	0.1	
Perchlorate	. 1	0.1	
Phenol	2 mg/l -	$0.4\mathrm{mg/l}$	
Picloram	500	100	
Polychlorinated biphenyls (PCBs)	0.03	0.003	
Prometon	4 100	20	
Propazine	10	2	
Pyrene	250	50	
Pyridine	10	2	
Selenium	50	10	
Silver	50	10	
Simazine	4	0.4	
Styrene	100	10	
Tertiary Butyl Alcohol (TBA)	12	1.2	
1,1,1,2—Tetrachloroethane	70	7	
1,1,2,2—Tetrachloroethane	0.2	0.02	
Tetrachloroethylene	5	0.5	
Tetrahydrofuran	50	10	
Thallium	, <b>2</b>	0.4	
Toluene	800	160	
Toxaphene	3	0.3	
1,24-Trichlorobenzene	70	14	
1, 1, 1—Trichloroethane	200	40	
1,1,2—Trichloroethane	5	0.5	
Trichloroethylene (TCE)	5	0.5	
2,4,5—Trichlorophenoxy—propionic acid (2,4,5—TP)	50	5	
1,2,3—Trichloropropane	60	12	
Trifluralin	7.5	0.75	
Trimethylbenzenes	480	96	
-	100	20	
(1,2,4- and 1,3,5- combined)	20		
Vanadium	30	6	

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# Table 1 — Continued Public Health Groundwater Quality Standards

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

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

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, Dearriber, 1998, No. 516, eff. 1-1-95; am Table 1, Pegister, Dearriber, 1998, No. 516, eff. 11-93; am Table 1, Pegister, Dearriber, 1998, No. 516, eff. 12-31-95; am Table 1, Register, Dearriber, 1998, No. 516, eff. 12-31-95; am Table 1, Register, Dearriber, 1998, No. 516, eff. 12-31-95; am Table 1, Register, Dearriber, 1998, No. 516, eff. 12-31-95; am Table 1, Register, Dearriber, 1999, am Table 1, Register, 1999, am Table 1, Register, Dearriber, 1999, am Table 1, Register, Dearriber, 1999, am Table 1, Register, Dearriber, 1999, am Table 1, Register, Dearriber, 1999, am Table 1, Register, Dearriber, 1999, am Table 1, Register, Dearriber, 1999, am Table 1, Register, 1999, am Table 1, Register, 1999, am Table 1, Register, 1999, am Table 1, Register, 1999, am Table 1, Register, 1999, am Table 1, Register, 1999, am Table 1, Reg

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

- (3) In addition to sub. (2), the following applies when a preventive action limit or enforcement standard is equal to or less than the limit of quantitation:
- (a) If a substance is not detected in a sample, the regulatory agency may not consider the preventive action limit or enforcement standard to have been attained or exceeded.
- (b) If the preventive action limit or enforcement standard is less than the limit of detection, and the concentration of a substance is reported between the limit of detection and the limit of quantitation, the regulatory agency shall consider the preventive action limit or enforcement standard to be attained or exceeded only if:
- 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

<sup>&</sup>lt;sup>2</sup> Total chlorinated atrazine residues includes parent compound and the following metabolites of health concern: 2-chloro-4-amino-6-is-propylamino-s-triazine (formerly descriptylatrazine), 2-chloro-4-amino-6-ethylamino-s-triazine (formerly descriptylatrazine) and 2-chloro-4-6-diamino-s-triazine (formerly diamino-s-triazine).

<sup>&</sup>lt;sup>3</sup> 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 ONFG-MUG (MMO-MUG) test or not present in any 10 ml portion of the 10-tube multiple tube fermentation (MTF) technique.

<sup>4&</sup>quot;Cyanide, free" refers to the simple cyanides (FiCN, CNT) 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".

<sup>&</sup>lt;sup>5</sup> 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.

<sup>&</sup>lt;sup>6</sup> Xylene includes meta-, ortho-, and para-xylene combined

APPENDIX E/ QUALIFICATIONS OF METCO PERSONNEL

# Ronald J. Anderson, P.G.

#### **Professional Titles**

- · Senior Hydrogeologist
- · Project Manager

#### Credentials

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

#### Education

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

### **Post-Graduate Education**

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

#### Work Experience

Includes nine months with the Wisconsin Department of Natural Resources Leaking Underground Storage Tank Program regulating LUST sites and since June 1990, with METCO as a Hydrogeologist and Project Manager. Duties have included: managing, conducting, and reporting tank closure assessments; property assessment, LUST investigations; spill investigations; agricultural chemical investigations, dry cleaning chemical investigations, general geotechnical/environmental investigations; Geoprobe projects (soil, groundwater, soil gas sampling); drilling projects (soil boring and monitoring wells); and remedial projects. Since 1989, METCO has sampled/consulted over 700 environmental sites.

# Jason T. Powell

#### **Professional Title**

Staff Scientist

#### Credentials

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

#### Education

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

### **Post-Graduate Education**

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

### **Work Experience**

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

### Eric J. Dahl

#### **Professional Title**

Hydrogeologist

#### **Credentials**

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

#### Education

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

#### **Post-Graduate Education**

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

# Work Experience

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

# Thomas P. Pignet, P.E.

### **Professional Titles**

- Chemical Engineer
- Industrial Engineer

#### Credentials

- Licensed Professional Engineer in Wisconsin

#### Education

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

### **Post-Graduate Education**

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

#### **Work Experience**

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

# Brandon A. Walker

#### **Professional Title**

Staff Scientist

#### Credentials

• Registered through the Wisconsin Department of Safety and Professional Services as a PECFA consultant (#1052577).

### Education

Includes B.S. in Geography and a minor in Environmental Studies from the University of Wisconsin- La Crosse. Applicable courses successfully completed include Water Resources, Ecology, Climate Systems, Earth Science, Zoology, Fundamentals of Cartography, Interpretation of Aerial Photography, Global Issues, Urban Geography, Environmental Sociology, and Environmental Studies.

# **Work Experience**

With METCO since April 2007 as a Staff Scientist. Duties have included: soil and groundwater sampling, operation and maintenance of remedial systems, geoprobe projects (oversight, direction, and sampling), site mapping, data reduction and analysis, and reporting.

# **Matt Michalski**

#### **Professional Title**

Staff Scientist

#### Credentials

• Registered through the Wisconsin Department of Safety and Professional Services as a PECFA consultant (# 1228116).

# **Education**

Includes B.S. In Geography from University of Wisconsin – La Crosse: Applicable courses successfully completed include Geographic Field Methods, Water Resources, Environmental Hazards and Land Use, and Advanced Map Design.

# **Work Experience**

With METCO since August 2012 as Staff Scientist. Duties include: soil and groundwater sampling, operation and maintenance of remedial systems, geoprobe projects (oversight, direction, and sampling), site mapping, data reduction and analysis, and reporting.

APPENDIX F/ STANDARD OF CARE

# STANDARD OF CARE

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

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

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

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

Jason T. Powell Staff Scientist

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

### Hon, David F - DNR

From:

Hon, David F - DNR

Sent:

Tuesday, October 15, 2013 4:17 PM

To:

'Brandon Walker, METCO - Staff Scientist'

Subject:

**RE: Lueptow Property** 

Brandon,

Carry on with the SI report. If there are detects of lead, then it will probably be an NAR. You are right on, I will need to review the SI report before I make any decisions.

Thanks again for keeping me up to speed – I really appreciate it!!



Hydrogeologist

Statewide Air and Waste Complaint Coordinator Wisconsin Department of Natural Resources West Central Region

West Central Region 1300 W Clairemont Ave.

Eau Claire, WI 54702-4001

(a) phone:

(715) 839-3750

( e-mail:

david.hon@wi.gov

We are committed to service excellence. Click here to evaluate how I did.

From: Brandon Walker, METCO - Staff Scientist [mailto:brandonw@metcohq.com]

**Sent:** Tuesday, October 15, 2013 4:14 PM

To: Hon, David F - DNR

Subject: Re: Lueptow Property

Sounds good David. I won't request any fee's then. I will let you review the file before any clear cut decisions have been made though, but I will continue to work on the SI Report (unless you would advise against). I spoke with Jason about this and he sounded pretty reluctant about it being completely removed from BRRTS (there were some detects for Lead), especially since the SI work has been done. Either way, I will let you review the file and come to your conclusion(s). I anticipate your response.

Brandon Walker
METCO - Staff Scientist
brandonw@metcohq.com / 608.781.8879
709 Gillette Street - Suite 3, La Crosse WI 54603
www.metcohq.com

On 10/15/2013 3:19 PM, Hon, David F - DNR wrote:

Brandon,

Again, I have not reviewed the file and am basing my thoughts on what you're telling me. Based on what you are saying here are my conclusions:

- The site was opened based on anecdotal evidence with no analytical data
- The tanks have been removed
- The groundwater and soil samples METCO took are below the detection limit (or ES? Or PAL? Or RCL?)

Basically, if the sample results were all ND, we will rescind the RP letter and take the case entirely off of BRRTS and there will be no closure request or fee necessary. This is because the site should never have been started in the first place by current DNR policy.

If the sample results are low level (<ES, preferably <PAL), we will call this a No Action Required, because this would have been the first analytical data we would find but low enough to not merit further investigation. This would keep the site as an 09 or NAR on BRRTS, but again, no closure request nor fee would be necessary.

I hope that helps. Feel free to contact me if you have further questions.

# ♣David Hon

Hydrogeologist Statewide Air and Waste Complaint Coordinator Wisconsin Department of Natural Resources West Central Region 1300 W Clairemont Ave. Eau Claire, WI 54702-4001

(**a**) **phone:** (715) 839-3750 (**b**) **e-mail:** <u>david.hon@wi.gov</u>

We are committed to service excellence. Click <u>here</u> to evaluate how I did.

From: Brandon Walker, METCO - Staff Scientist [mailto:brandonw@metcohq.com]

Sent: Tuesday, October 15, 2013 2:57 PM

To: Hon, David F - DNR

Subject: Re: Lueptow Property

Ok, good. Not much to this site, so I will get you up to speed as I have a question for you. A tank removal was conducted in 1991, however not by a certified entity and assessment samples were not collected at this time, therefore no confirmed exceedances. The local Fire Dept at least supervised the tank removal (they may have removed by them, it is not sure), and they stated holes were observed in the tanks (one 250-gal and one 500-gal). The next work completed for the site was by us, this April 2013. We completed 10 geoprobes with no samples exceeding any NR720 values. The only detect for any compound was for lead, but all were below the NR720. We also collected groundwater samples from each geoprobe as well as the potable well. All showed no detects.

I have just started working on the SI Report (and Closure Request), and my question for you is, what fee's, if any, will be needed for closure. Since no exceedances for either soil or groundwater has been confirmed for the site, there should be no GIS fee's correct? Also, will there even need to be a closure request

completed for this site, or could there be a "no further action" required for this site?

Brandon Walker

**METCO** - Staff Scientist

brandonw@metcohg.com / 608.781.8879

709 Gillette Street - Suite 3, La Crosse WI 54603

www.metcohq.com

On 10/15/2013 2:23 PM, Hon, David F - DNR wrote:

Brandon, I have all Buffalo County sites that were in Tom K's name as of 2 weeks ago, but I have not yet reviewed them. I believe that site is mine. If you have any updates please let me know. Otherwise, I am sure we will be in touch after I do file reviews for his sites.



Hydrogeologist
Statewide Air and Waste Complaint Coordinator
Wisconsin Department of Natural Resources
West Central Region
1300 W Clairemont Ave.
Eau Claire, WI 54702-4001

(☎) phone: (715) 839-3750 (☑) e-mail: david.hon@wi.gov

We are committed to service excellence. Click <u>here</u> to evaluate how I did.

From: Brandon Walker, METCO - Staff Scientist

[mailto:brandonw@metcohq.com]

**Sent:** Tuesday, October 15, 2013 2:22 PM

**To:** Hon, David F - DNR **Subject:** Lueptow Property

Hi David,

I was just wondering if you were the project manager for this site in Mondovi, or if you knew who was. I see BRRTS has it as Tom K., but I was under the assumption that all of his sites had been divided up. Let me know, thanks.

Brandon Walker
METCO - Staff Scientist
brandonw@metcohq.com / 608.781.8879
709 Gillette Street - Suite 3, La Crosse WI 54603
www.metcohq.com



# **LUST Investigation Field Procedures Workplan**

Lueptow Property W448 County Road Z Mondovi, Wisconsin

October 2, 2012 by METCO WDNR File Reference #: 03-06-000583 PECFA Claim #: 54747-9998-00



Excellence through experience™

This document was prepared by:

Jason T. Powell Staff Scientist

Ronald J. Anderson, P.G.

Senior Hydrogeologist/Project Manager



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

October 2, 2012

WDNR BRRTS#: 03-06-000583 PECFA Claim #: 54747-9998-00

Lisa Lisowski W448 County Highway Z Mondovi, WI 54755

Dear Ms. Lisowski,

Enclosed is our "LUST Investigation Field Procedures Workplan" concerning the Lueptow Property in Mondovi, Wisconsin. This document outlines the procedures and the methods used to conduct such an investigation.

A copy of this workplan will be sent to the Wisconsin Department of Natural Resources for review.

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: Tom Kendzierski - WDNR

Fran T. Revell

# **LUST Investigation Field Procedures Workplan - METCO Lueptow Property**

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# LUST Investigation Field Procedures Workplan - METCO Lueptow Property

# 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

WDSPS - Wisconsin Department of Safety and Professional Services

WPDES - Wisconsin Pollutant Discharge Elimination System

# **LUST Investigation Field Procedures Workplan - METCO Lueptow Property**

# **OBJECTIVES**

# Requirements of the WDNR

A Leaking Underground Storage Tank (LUST) 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 over 10 ppm Gasoline Range Organics (GRO) or Diesel Range Organics (DRO) requires an investigation. Any soil that tests over the Chapter NR720 Soil Cleanup Standards or NR746 Table 1/Table 2 Values may require remediation. Any groundwater that tests over the Preventive Action Limits (PAL) or Enforcement Standards (ES) for compounds listed in Chapter NR140 of the Wisconsin Statutes requires an investigation and possible remediation. For a further explanation of WDNR rules and regulations, see Appendix D.

# Requirements of the PECFA Program

According to rules adopted in May 2006, the maximum allowable cost for an initial LUST Investigation shall be no more than \$20,000 unless pre-approved by PECFA. All consultant and commodity service costs must not exceed the Wisconsin Department of Safety and Professional Services (WDSPS) Usual and Customary Charges.

# **Purpose of Document**

This document briefly outlines all methods and procedures used by METCO personnel concerning "LUST Investigations". These guidelines are strictly followed unless changed by managing personnel, site conditions, or project situations. All changes will be clearly noted.

All work conducted by METCO is undertaken in accordance with approved methods and regulations of the WDNR Bureau for Remediation and Redevelopment and WDSPS Bureau of PECFA.

This document is site specific and will always be on-site during the project.

# **LUST Investigation Field Procedures Workplan - METCO Lueptow Property**

# INTRODUCTION

### Site Name

Lueptow Property

# Site Address

W448 County Road Z Mondovi, Wisconsin

# **Legal Description**

SE ¼, NE ¼, Section 8, Township 23 North, Range 10 West, Buffalo County

# **Contact or Client**

Lisa Lisowski W448 County Road Z Mondovi, WI 54755 (715) 946-3311

# **WDNR Project Manager**

Tom Kendzierski Wisconsin Department of Natural Resources 1300 W. Clairemont Avenue P.O. Box 4001 Eau Claire, WI 54702-4001 (715) 839-1604

### Consultant

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

# LUST Investigation Field Procedures Workplan - METCO Lueptow Property

# SITE BACKGROUND

# **Facility**

The subject property was formerly a small country store with an attached living quarters. The subject property had a UST system for retail fuel sales that operated during the 1940's and 1950's.

In May 1991, the Mondovi Fire Department oversaw the removal of a 250-gallon leaded gasoline UST and a 500-gallon leaded gasoline UST. During the UST removal, petroleum contamination was encountered beneath the removed UST's. The petroleum contamination was reported to the WDNR, who then required that a site investigation be conducted.

No other LUST/ERP sites are known to exist within three miles of the subject property.

# Potential Risks and Impacts

The subject property and surrounding properties are all served by private potable wells. The potable well for the subject property exists approximately 50 feet to the east-northeast of the removed UST's and dispensers. Other nearby private water supply wells will be documented during the site investigation.

The nearest surface water is Elk Creek, which exists approximately 350 feet to the north of the subject property.

Building structures and utility corridors will be assessed during the investigation.

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

# SITE CONDITIONS

# **Topography**

According to the USGS Hydrologic Atlas, the subject property is located in the southern portion of the Trempealeau-Black River Basin. This area is characterized by rugged, steep-walled valleys and high relief, a lack of glacial deposits, and streams that have cut deeply into the relatively flat-lying bedrock.

The elevation of the site is approximately 840 feet above Mean Sea Level (MSL). See Appendix A for site location.

# **LUST Investigation Field Procedures Workplan - METCO Lueptow Property**

# Geology

Native unconsolidated materials in this area generally consist of sand to silty sand. The unconsolidated materials are underlain by Cambrian sandstone at approximately 50 to 100 feet below ground surface.

# Hydrology

The nearest surface water is Elk Creek, which exists approximately 350 feet to the north of the subject property.

# Hydrogeology

Based on local topographic maps, groundwater exists at approximately 15-20 feet below ground surface. Groundwater flow direction is not known at this time, but expected to be toward the northwest to northeast.

# SCOPE OF WORK

# **LUST Investigation**

An investigation consists of collecting samples of soil and groundwater for analysis by a laboratory for compounds related to petroleum products. The WDNR requires that the investigation determine the degree and extent of contaminants in these mediums, which is commonly referred to as "defining the contaminant plume". Further background information will also be collected to assist in the investigation.

# **Geoprobe Project**

METCO has proposed a one to two day Geoprobe Project. We propose 12 to 16 borings to 20 feet with soil and groundwater sampling. The Geoprobe will be used to collect soil samples at various depths in order to determine the general extent of contaminants in the subsurface environment.

The goal of the Geoprobe Project is to complete the following:

- 1. Determine general subsurface geotechnical characteristics.
- 2. Determine general extent of the contaminants in the unconsolidated deposits.
- 3. Determine the general extent of contaminants in groundwater, if applicable.
- 4. Determine if contaminants have migrated to competent rock, if applicable.

# **LUST Investigation Field Procedures Workplan - METCO Lueptow Property**

This data will either completely define the extent of contamination or be used to guide the Drilling Project if required.

# **Drilling Project (if required)**

METCO has proposed 6 to 8 boreholes to be completed on/off site. METCO has also proposed 5 to 7 monitoring wells to be installed on/off site. Based on the results of the Geoprobe project, we will be able to determine how many monitoring wells will need to be installed.

The goal of the Drilling Project is to complete the following:

- 1. Collect a soil sample for field analysis every 2.5 feet of boring.
- 2. Collect at least two soil samples for laboratory analysis in every boring.
- 3. Verify, through sampling, the horizontal and vertical extent of soil contamination, including smear zones.
- 4. Install monitoring wells in an arrangement that fully defines the horizontal and vertical extent of groundwater contamination.
- 5. Develop the monitoring wells.
- 6. Collect at least two rounds of groundwater samples from the monitoring wells.
- 7. If conditions warrant, perform slug tests on at least one monitoring well.

# **Report Preparation**

The final report, prepared by METCO, will include background information, observations, procedures, methods, field data, laboratory analysis, site maps, data analysis, risk assessment, conclusions, and recommendations concerning all activities conducted for this project. This report will be submitted to the client and the WDNR or WDSPS for review and discussion.

# METCO PROCEDURES AND METHODS

### Geoprobe

The Geoprobe consists of a track mounted, hydraulically driven unit that advances 1-inch diameter, 3 or 4-foot long, stainless steel rods into the subsurface. At desired depths, either a soil or water sample can be collected.

A 4-foot or 5-foot long, ½ or 1-inch diameter soil sampler is advanced to the sampling location. At desired depths, a soil sample is collected and brought to the surface for analysis.

# LUST Investigation Field Procedures Workplan - METCO Lueptow Property

All Geoprobe holes are properly abandoned to ground level using bentonite clay and a surface seal.

# **Drilling**

Drilling is conducted with a track mounted Geoprobe model 7822DT hollow stem auger/direct push drill rig. To penetrate any unconsolidated materials, work is conducted in accordance with ASTM D-1452 "Soil Investigation and Sampling by Auger Boring". If bedrock is encountered and cannot be penetrated with auger boring, an accepted air-rotary drilling procedure will be used.

Sampling unconsolidated materials is done using hydraulically driven unit that advances 1-inch diameter, 4 or 5-foot long, stainless steel rods into the subsurface. At desired depths, either a soil or water sample can be collected. A 4-foot or 5-foot long, ½ or 1-inch diameter soil sampler is advanced to the sampling location. At desired depths, a soil sample is collected and brought to the surface for analysis.

All borings are properly abandoned to ground level using bentonite clay.

# **HNU Screening**

Each of the samples, for headspace analysis, are placed in a clean, clear, plastic Ziploc bag. These containers are to be filled ¼ full. All containers are the same size and filled to the same volume. The containers are then sealed.

Once collected and sealed, samples are shaken for 30 seconds to break apart soil clods. They are then allowed to establish headspace. The following table is used to determine headspace equilibration time.

Outside temperature Time to establish headspace

- <40 deg. F 40 minutes
- 41-55 deg. F 20 minutes
- 56-69 deg. F 10 minutes
- >70 deg. F 5 minutes

To take readings, the HNU probe is inserted into the plastic bag halfway between the sample and the highest meter response recorded. The samples are screened with a MODEL HW-101 HNU Meter equipped with a 10.2 eV lamp. Metered calibration is done at the beginning of each workday. Other notes

# **LUST Investigation Field Procedures Workplan - METCO Lueptow Property**

taken are as follows:

- 1. Temperature and weather conditions.
- 2. Date of last factory calibration.
- 3. Field calibration gas used and concentration.
- 4. Date and time of last calibration.
- 5. Instrument gain setting.
- 6. Erratic instrument readings.
- 7. Cleaning or repairs performed in the field.
- 8. Sample moisture (saturated, wet, moist, damp, dry).
- 9. Petroleum odors or staining of samples.
- 10. Any instrument quenching.
- 11. Other relevant information.

#### **Monitoring Wells**

Groundwater monitoring well installations are completed under the direction of a METCO hydrogeologist and in accordance with Wisconsin Department of Natural Resources Chapter NR141, "Groundwater Monitoring Well Requirements." The monitoring wells are constructed of flush-threaded, two-inch inside diameter schedule 40 or 80 polyvinyl chloride (PVC) piping. Ten-foot well screens with 0.010-inch slots are installed approximately 5 to 6 feet into the watertable. A uniform washed sand is installed around the well screens to serve as a filter pack. Granular bentonite is used above the filter pack to provide a surface seal. Steel, locking protective well casings are cemented in at each well. Any variances from NR141 will be reported to the WDNR.

Each well is developed by alternately surging and purging with a clean polyethylene bailer for 20 to 30 minutes to remove fines from the well screen, after which ten well volumes are removed using a submersible pump.

Groundwater level measurements are obtained using an electronic water level indicator. All measurements are recorded to the nearest 0.01-foot. The probe is thoroughly washed between measurements.

At least two rounds of samples are collected using a bottom loading, disposable, polyethylene bailer and disposable polyethylene cord. Approximately four well volumes are purged from each well before collecting samples.

## LUST Investigation Field Procedures Workplan - METCO Lueptow Property

Depending on site conditions and groundwater sampling results, a slug test may be conducted on one of the monitoring wells to determine hydrogeologic parameters (hydraulic conductivity, transmissivity, and flow velocity). During the slug test, groundwater in a monitoring well is displaced using a solid plastic slug, while water levels are recorded using a transducer and data logger. Water levels are recorded until the water level in the well returns to equilibrium. Slug test data is evaluated using the Bouwer and Rice method.

#### **Well Elevation Survey**

All wells are surveyed to the nearest 0.01-foot MSL by a qualified surveying company.

#### Sample Analysis

Environmental samples are collected to minimize both soil disturbance and exposure of the sample to the air.

Field observations such as soil characteristics, petroleum odors, product sheens, and staining associated with the samples are continuously noted throughout sampling.

The amount of sample taken, the size of the container used, and the type of sample preservation used, will depend on the laboratory contracted and for which parameters the soil samples are analyzed. See Appendix C for LUST Sample Guidelines.

All collected samples are stored in a cooler that maintains a temperature of, at most, 4 degrees Celsius. The coolers are accompanied by a complete chain of custody and are delivered to the laboratory within two days of sampling.

The WDNR document, "LUST Analytical and Quality Assurance Guidance, July 1993" is referenced in determining what parameters in which the soil and water samples will be analyzed, and the amount of duplicates/blanks required.

#### **Quality Assurance/Quality Control/Waste Management**

All drilling and sampling equipment advanced into the subsurface is cleaned between sampling locations. This consists of washing with a biodegradable Alconox solution and rinsing with potable water. Wash and rinse water are disposed of atop an isolated area of asphalt for evaporation or discharged into a local storm sewer.

Drill cuttings, field screened as being contaminated, are contained in 55-gallon DOT barrels, characterized, and properly disposed of by METCO and/or client.

## LUST Investigation Field Procedures Workplan - METCO Lueptow Property

Development and purge waters are contained in 55 gallon DOT barrels, characterized, and properly disposed of by METCO and/or the client. Disposal options will depend on the amount of water, type of contaminants, and concentration of contaminants. All wastewater contaminants and disposal activities are recorded with complete documentation submitted to the WDNR.

#### **Variances**

We are not aware of any variances needed at this time.

#### SCHEDULE FOR INVESTIGATION PROJECT

The following is a checklist of activities that have been, or will be completed, concerning the LUST Investigation, along with an estimated time frame. A typical LUST Investigation takes approximately 2 to 6 months. The investigation may take up to 12 months if bedrock or groundwater is contaminated.

- 1) METCO submits a LUST Investigation Project proposal to client (done).
- 2) Proposal acceptance by client. METCO notifies the WDNR that a consultant has been contracted (done).
- 3) Client obtains PECFA Packet and Site Eligibility Letter from PECFA (done).
- 4) METCO submits a LUST Investigation Field Procedures Workplan to client and WDNR for review and approval (10/2/12).
- 5) METCO conducts Geoprobe Project (2-4 weeks). More than one field mobilization may be needed to complete project depending on complexity of the site and project (1 month to receive lab results).
- 6) Depending on the results of the investigation, METCO prepares a brief summary report or final report and sends copies to client and WDNR (2 months after lab results are received).

NOTE: If groundwater is found to be impacted or suspected of being impacted by released contaminants, the WDNR will require a Drilling Project with monitoring wells.

- 7) METCO conducts Drilling Project (2 months). More than one field mobilization may be needed to complete project depending on complexity of the site and project (1 month to receive lab results).
- 8) METCO develops/surveys the installed monitoring wells and collects. Round 1 groundwater samples for laboratory analysis (1 month to receive lab results).
- 9) METCO collects Round 2 groundwater samples for laboratory analysis (1

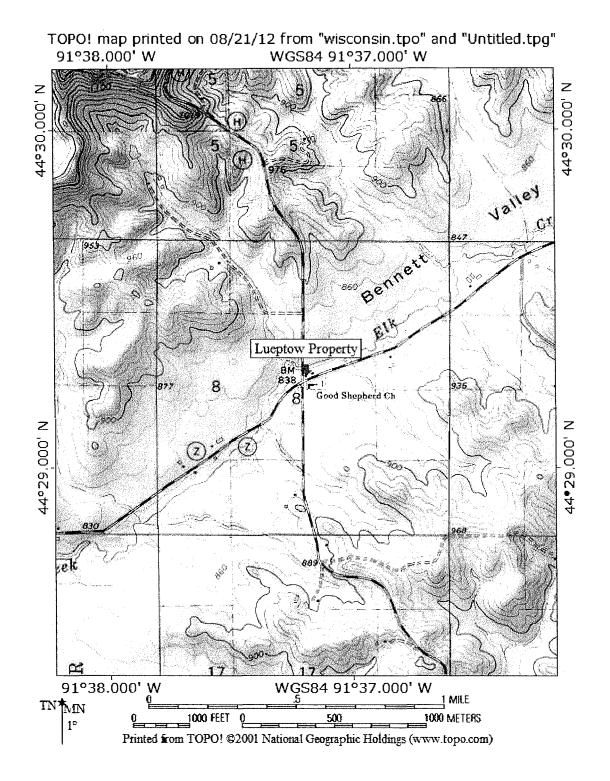
# **LUST Investigation Field Procedures Workplan - METCO Lueptow Property**

month to receive lab results).

- 10) METCO completes any additional work that is needed, such as slug tests (1 month).
- 11) METCO prepares a LUST Investigation report that contains all collected data and submits to the client and WDNR (3-6 months).
- 12) If no further investigation work is required, METCO will apply for "site closure" with the WDNR or WDSPS. Upon closure, METCO will complete the PECFA Application and submit for reimbursement (reimbursement takes 3 to 6 months).
- 13) If further investigation and/or remediation is required METCO will provide further assistance.

LUST Investigation Field Procedures Workplan - METCO Lueptow Property

**APPENDIX A/SITE MAPS** 



SITE LOCATION MAP – CONTOUR INTERVAL 20 FEET LUEPTOW PROPERTY – MONDOVI, WI SEAMLESS USGS TOPOGRAPHIC MAPS ON CD-ROM



NOTE: INFORMATIOI DATA. ACTUAL C(

#### ● ~ PROPOSED GE



LUST Investigation Field Procedures Workplan - METCO Lueptow Property

#### **APPENDIX B/INVESTIGATION CHECKLIST**

#### SITE INVESTIGATION CHECKLIST Revised February 1992 PUBL-SW-115

This checklist was prepared by the Department of Natural Resources. It lists the necessary information to include in a site investigation report, for investigations conducted in accordance with guidelines prepared by the Emergency and Remedial Response Section, of the Bureau of Solid and Hazardous Waste Management, Wisconsin DNR. Sites include those where actions are conducted under the LUST, Spills and Environmental Repair programs. If some of this information is not submitted the report should clearly state why it is omitted. More complete information regarding site investigations is available in the Department's "Guidance on Conducting Environmental Response Actions".

The purpose of the site investigation is to 1) define the extent and degree of contamination and 2) to provide a basis for choosing a remedial action alternative. The narrative portion of the investigation report should clearly address these goals.

The Department strongly recommends that the site investigation report follow the sequence of information listed here. This will allow for a quick completeness check and more timely review of submittals. Incomplete reports will not be reviewed until all the necessary information has been received. The following information should be included in the site investigation, (as appropriate to each case):

Ι	INTRODUC	TION/COVER LETTER
	1.	Project title
	ž.	Purpose of report and desired department action
	3.	Client(s)
	4.	Author(s), with signatures
	5.	Scope of Services
	6.	Dates the work was performed
	7.	
	8.	Date of report Subcontractors employed by the consultant
	٠.	Succontributions emptoyed by the consuctant
11.	GENERAL	and BACKGROUND INFORMATION
1.	General	Information
٨.		y the owner/operator and/or person(s) responsible: (include all applicable)
	1.	пале
-	2.	address
	3.	day phone number
	4.	contact person (name)
	5.	address
	6.	phone number
	7.	verification of ownership: photocopy of deed or exact legal description of property
В.	Specify	the site of contamination:
	1.	name
	2.	phone number
	3.	specific location (street corner, miles from an intersection, etc)
		<ul> <li>a. legal address (street address if applicable, do not supply just a P.O. Box #)</li> </ul>
		<ul> <li>b. location of impacted properties by latitude and longitude, to an accuracy of seconds, at a minimum (preferred method) or State Plane coordinate system</li> </ul>
•		<ul> <li>c. location of impacted properties by quarter, quarter, section, township, range, civil township, county, or other locational criteria if site(s) are not within th Public Land Survey system</li> </ul>
	4.	type of operation: gas station, tank farm, private residence, manufacturer, etc.
С.		cation Maps
	1.	General Location Map
		locate on a USGS topographic base map (include quadrangle name, series and scale)
		locate on a plat map, if applicable
	2.	Local Base Map: the map must be drawn to scale and include the following items. Other features may also be needed:
		a. bar scale
		b. North arrow
		c. legend
		d. location of benchmark used
		a prigin of horizontal grid system

	J.	for the base map (These maps may be used for several purposes.)
		a. location of discharge on site or facility, for example, the location of (former)
		tank and pump islands and piping
		b. location of all buildings on site
		c. locations of public utilities, appropriately marked
		d. property boundaries
		<ul> <li>e. location of all soil borings and wells (monitoring wells and potable wells)</li> <li>f. location of soil vapor points</li> </ul>
		g. locations of where field screenings and lab confirmation samples were taken
		h. nearby/neighboring structures and private wells (within 1200 feet)
		i. any nearby surface waters (within map scale)
		j. roads and paved areas, and other access areas
:		k. known and potential sources of contamination
_		l. known and potential receptors
		m. limits of excavation
2.	Site Bad	ckground
۸.	General	Site Information
	1.	site description, including features like:
	• •	- number of tanks/containers
		- volume/size of tanks/containers
		- tank/container contents, past and present
		- tank/container age, installation dates
		- tank/container construction materials
		- presence and type of leak detection
	•	- presence and type of secondary containment
	2. 3.	general site construction history
	4.	any past reports of spills, or other incidents periods of nonoperation
	5.	proximity of sensitive sites such as schools, homes, private or public wells, etc.
		proximitely 0.7 sensetives seems as sensetis, nemes, provides of pastern action, each
В.	Descrip	otion of Discharge Incident
	1.	type of hazardous substances discharged, known or suspected (released, spilled, lost, etc.)
	2.	approximate amounts discharged
	3.	location of impact
	4.	dates of discharge
	5.	local problems associated with discharge, e.g. vapors in homes, well contamination, etc.
	6.	known receptors
c.	impacts	3
	1.	existing impacts to human health, safety, welfare and the environment
	2.	any impacts to adjacent or nearby buildings, wells or other structures
	3.	names and addresses of owners of adjacent properties, if those properties have been
		adversely impacted by the hazardous substance discharge
D.	Past A	ctivities, Monitoring and Testing
	1.	dates of site activities, duration and type and potential amounts of discharges
	2.	description of emergency actions taken and of interim actions taken, including dates
	3.	record of activities conducted at the site which had potential to cause contamination
	4.	inventory record system data
	5.	summary of monitoring results, including:
		- product monitoring records according to ILHR 10
		- groundwater monitoring
		- surface water monitoring
		- soil monitoring
		- sediment monitoring
_	4	- atmospheric monitoring
	6. 7.	records of testing, repair, removal or replacement, including dates
	١.	tank/container/line integrity testing method
		method testing firm
<del></del>		dates
		results
E.	_	ous Waste Generation
	1.	hazardous waste manifest

r.	Desci ibi	tion of falls/container and soft Relibrat Activities
	1.	description of soil conditions in the area of the tank/container excavation or in area of
		discharge
	2.	volume of (contaminated) soils removed from the excavation
	3.	location of stockpiled contaminated soils
	4.	type of impermeable base for stockpiled soils
	5.	type of impermeable cover for stockpiled soils
	6.	if excavation was backfilled, what was used as fill?
	7.	final deposition of soil excavated, where and how were they used? (daily cover, backfill
		on/off site, roasted, buried, etc.)
	8.	condition of tanks, lines, pumps (corrosion, visible leaks, etc?)
	9.	
	у.	product (other than petroleum) or waste delivery or storage systems
G.	Land Us	e Information
	1.	current and past land uses of site and neighboring properties
<del></del>	2.	description of zoning of property and adjacent properties
		description of Zonnig of property and adjacent property
_		and the second s
3.	Environ	mental Analysis
Α.	Site Hi	storical Significance
	1.	impacts or potential impacts to significant historical or archeological features due to any
	• •	response activities or the discharge itself
	٠,	•
	2.	presence of buildings greater than 50 years old on or next to discharge site
В.	Presenc	e of "Sensitive" Environmental Receptors
	1.	wildlife habitat
	2.	state or federal threatened or endangered species
	3.	sensitive or unique ecosystems or species
	4.	areas of special natural resource interest
	5.	other surface waters and wetlands, as appropriate
С.	Geology	/ (use maps as appropriate)
	1.	geologic origin, nature and distribution of bedrock
	2.	geologic origin, nature and distribution of overlying soils
	3.	thicknesses of various strata (consolidated and unconsolidated)
	4.	depth to bedrock
	5.	geophysical characteristics
	6.	soil types and texture
	7.	soil descriptions to include:
	• •	- structure
		- mottling
—		- voids
		- layering
		- lenses
		- geologic origin
		- Unified Soil System Classification
_		
		- grain size distribution, if applicable
		- evidence of secondary permeability
		- odor, if evident
		- staining, if evident
	8.	bedrock descriptions, if impacted:
		- rock type
		- grain size
		- bedding thickness
		- presence of fractures
		- orientation of fractures
		- sedimentary structures
		- secondary porosity/solutional features
	C	- other
—	9.	topography
**********	10.	site hydrology, including
		- intermittent and ephemeral streams,
		- drain tile systems,
		- urface waters
		·
		- wetlands
	•	- location of floodway and floodplain (this may be best located on a site map)
D.	Hydron	eology
	1.	depth to water table flow directions seasonal variations
	,	TION OICECTIONS SEASONAL VACIATIONS

els.			
*			
The Control of the Co		3.	horizontal and vertical gradients
		4.	hydraulic characteristics: (define as field test results or non-field estimates)
			hydraulic conductivity, variation
			transmissivity
		-	storativity
		5.	aquifer definition:
			size
			use . pres <b>e</b> nce of aquitards
	-	6.	local and regional recharge or discharge area(s)
		7.	potentiometric surface
		8.	location, seasonal variation of groundwater divides
	<del></del>	9.	location and extent of perched groundwater
	_	10.	local and regional groundwater quality
		11.	hydraulic connection between aquifers
	******	12.	saturated thickness of aquifer
		13.	estimates of flow volume passing below the discharge site/facility (include calculations in
			the appendices)
		14.	drillers logs which indicated any abnormal drilling difficulties
		15.	isoconcentration maps
		16.	other
٠.	111.	RESULTS	
•		KESOLIS	
	1.	Contami	nant Migration Pathway and Receptor Assessment
	٨.	Potenti	al Vapor and Product Migration Pathways (include depth of burial and construction material)
		1.	sewer lines
		2.	STORM SEMERS
•		3.	buried power cables
		4. 5.	buried telephone lines
		6.	tile lines
		7.	more permeable soil lenses water lines
		8.	road beds
		9.	foundations
	<del></del>	10.	other
	В.	Potenti	ial Receptors of Contamination (description of impacts or potential impacts, if applicable)
		1.	buildings on site
		2.	neighboring basements/buildings
		3.	nearby wells (locations must be provided on a map)
		4.	nearby surface waters, including wetlands
	*****	5.	critical habitats
		6. 7.	endangered species
		7. 8.	outstanding resource waters
		9.	exceptional resource waters sensitive or unique ecosystems
		10.	other
	c.	Potent	ial Health Impacts
		1.	danger of explosion
		2.	contaminated private wells
		3.	contaminated public water supply wells
		4.	exposure to vapors
		5.	dermal exposure
		6.	other
	.2.	evalua	ng and Analysis Results (figures and tables should be used, but general trends and the overall tion should be in narrative form) Provide units of measurement for all results. Describe or e the following information for each media impacted:
	٨.	soilc	hemistry results, per parameter, per location
		1.	field screening results with locations identified
		2.	laboratory (confirmation) sample results with locations identified
		3.	any indication of contamination of soils encountered (staining, odor, etc.)
4			
	В.	ground	Water sample results, per parameter, per well, over time
		1.	laboratory results
		2.	trends analysis

	3.	compliance evaluation with NR 140 groundwater standards, if applicable
c.	soil var	por results (define type of survey used)
	1.	by parameter
_	2.	per location
D.	sampling	g results from other media impacted by the discharge
	1.	parameters
	2.	locations
3.	Sampling	g Methods Used (for each media impacted, lists provided for soil and groundwater only)
A.	Soils:	
	1.	description of sample collection method
	2.	field screening or analytical instrument type used
		lamp strength calibration
		operating procedure
_	3.	sample container
_	4.	temperature at which the sample was collected
	5.	time allowed for PID or FID samples to achieve at least 70° F, and location
	Caarado	
В.	Groundw 1.	method and instruments used to obtain sample
	2.	any indication of contamination noticed in field
	3.	whether the well was purged or not, why and how, and amount removed
	4.	drilling method used
	5.	monitoring well construction features
	6.	abandonment methods
		a. boreholes b. monitoring wells
		<pre>b. monitoring wells c. excavations</pre>
	7.	survey methods
	8.	sample container size
	9.	sample description
		- turbid
		- clear
		- sheen
	10.	- free product other '
С.		/Ambient Air
******	1.	description of sample collection method
	2.	field screening, if conducted
	3.	sample container
4.	Qualit	y Control and Quality Assurance
٨.	Genera	ol QA/QC (for all media impacted)
-	1.	name and address of laboratory
	2.	laboratory certification number
	3.	number of blanks, with results:
		- field blanks - trip blanks
		- lab spikes
		- split samples
		- replicate spikes
	4.	name and training of person collecting the samples (including certification, if applicable)
В.	Field	Instrument Quality Control (for all media impacted)
	1.	instrument make, model and lamp energy
	2.	limitations of field screening instruments
		- temperature changes
		- humidity changes - other
	3.	any repairs to the instrument
	4.	field instrument calibration measures conducted
	5.	time and frequency or schedule of field instrument calibration
	6.	composition of the calibration gas used (calibration product ?)
	7.	calibration curves used
	8.	correction factor if one was used

	40	results of any Catheractor checks
	10.	time of day and ambient temperature when calibrations, calibration curves or calibration
		checks were completed
	11.	time and temperature that samples were equilibrated if the outside temperature is below
		60°F at the time of field analysis
C.	Field co	ampling and Transportation Quality Control and Assurance (for all media impacted)
٠.		
	1.	sample type
	2.	sample location and associated field and laboratory identification
	3.	sampling technique used
	4.	sampling techniques used to minimize exposure of samples to the atmosphere
	5.	date and time of sampling
	6.	field preservation performed
		· · · · · · · · · · · · · · · · · · ·
	7.	date and time of preservation or extraction
	8.	decontamination procedures used during the site investigation
	9.	deviations from standard operating procedures
	10.	shipping time and technique
D.	Laborato	ory Receipt and Analysis (for all media impacted)
•	1.	chain of custody forms (4400-151)
	2.	time and date of receipt of samples by the laboratory
	3.	sample condition on receipt by the laboratory including
		- the temperature of the samples and
		- whether the samples were properly sealed
	4.	time and date of analysis
	5.	method of analysis
	6.	laboratory detection limit
	7.	sample results with units of measurement
	8.	accuracy and precision of replicate spikes
	9.	results or percent recovery of matrix spikes with every batch of samples not to exceed
		eight hours
5.	Investi	gative Wastes (for all media impacted, to include but which is not limited to contaminated
		rom excavations, borings, purge water, rinse waters from decontamination procedures, extra
	sample)	
	A.	analytical results (hazardous determination, if listed?)
	В.	ultimate disposal
	C.	other
IV.	CIMMADY	AND EVALUATION OF RESULTS (Analysis of Degree and Extent of Contamination)
	30HWK1	AND EVALUATION OF RESULTS (Allatysis of Degree and Extent of Contamination)
	1.	degree and extent of soil contamination
	2.	degree and extent of groundwater contamination
	3.	degree and extent of contamination of other media impacted
	4.	known or potential impacts to receptors, such as water supply wells
-	4.	vapor migration potential
	5.	
		impacts from seepage into basements, utility lines, surface waters
	6.	difficulties experienced during the investigation
	7.	unanticipated or questionable results
	8.	details needing emphasis
		- '
٧.	CONCLU	SIONS
٠.	CONCEO	31043
		the second second second
		and type of release defined
	soilar	nd groundwater contamination adequately defined?
	furthe	r study needed
	furthe	r remediation needed
		or potential impacts from the release defined?
		site, ready for case closure
	_	,,
	other	
		· · · · · · · · · · · · · · · · · · ·
VI.	RECOMM	ENDATIONS
1.	Invest	igation Incomplete
• •		
		ued monitoring
	additi	onal investigation
_		
2.	Remedi	al Action Alternatives (provide description of alternatives) e.g.:

		oval, treatment and disposal				
	soil venting product recovery groundWater extraction and treatment					
	insitu biological treatment					
	other ac	tions (define)				
3.	Other					
	work pla	ns for further action				
	construc	tion proposals for further action				
	pilot st	udy, other treatability studies				
<u> </u>	schedule	es for further actions				
	required	g permits				
	•	air quality				
		wastewater discharge				
VII.	FIGURES					
	1.	Site Maps				
	••	- location maps (regional and local)				
		- water table and/or potentiometric surface maps				
		·				
		- isoconcentration maps				
		- surface water depth maps				
	2	- bedrock and soil type and distribution maps				
	2.	Flow Cross Sections				
	3.	Extent of Contamination in Soil				
	4.	Extent of Contamination in Groundwater (Isoconcentration)				
	5.	Locations of Potential Receptors				
	6.	Geologic Cross-Sections				
		a. · geologic setting				
		b. boring location				
		c. soil classification				
		d. analytical sampling				
		e. monitoring well locations				
		f. water table				
		g. extent of contaminant plume				
		h. concentrations at referenced date and point				
		i. sampling intervals (for soil and groundwater)				
		j. of excavation walls showing location of field screening and/or analytical results,				
		as appropriate				
	7.	Photographs (NO black and white photocopies)				
VIII.	TABLES					
	1.	Groundwater Chemistry Results				
	2.	Soil Chemistry Results				
	3.	Analytical Methods Used				
	4.	Standards for Comparison and Compliance Determinations (Tables with compliance standards				
		should be combined with analytical results for comparison)				
	5.	Geologic and Hydrogeologic Results				
	6.	Groundwater Elevations				
	7.	Screening Results				
	8.	Other				
IX.	APPEND	ICES (up to the author)				
	1.	Table giving data for compounds found, such as:				
<del></del>		Chemical formula, Molecular weight, Ionic potential, Solubility,				
		Vapor pressure, Henry's Law Constant, Kow				
	2.	References used to support methods or provide standards methods, including previous reports				
	3.	All raw data				
	4.	All documentation on forms: (DNR form number)				
		a. soil boring logs (4400-122)				
		b. monitoring well construction logs (4400-113A)				
		c. soil boring/well abandonment forms (3300-5B)				
		d. chain of custody forms				
		e. lab/chemistry results				
		f. groundwater monitoring well information form (4400-89)				
		g. monitoring well development form (4400-113B)				
	5	Variances (for well construction hazardous waste storage requirements etc.)				

 6.	Well logs of all impacted wells and potentially impacted wells within 1200' of the	ıe
	discharge site (locate wells on a map)	
 7.	All calculations and assumptions	
 8.	Landfill receipts for disposed soil	
 9.	Regional hydrogeological information references used	

Other information that may be needed includes:
- access
- public information plan
- health and safety plan

**LUST Investigation Field Procedures Workplan - METCO Lueptow Property** 

APPENDIX C/LUST SAMPLING GUIDELINES

#### 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 <sup>5</sup>	Site Investigation, Pretreatment and Posttreatment Sample Analysis <sup>11</sup>
Regular Gasoline	GRO²	Free Liquids <sup>6</sup> GRO Benzene <sup>7</sup> Pb <sup>7</sup> Haz. Waste Deter. <sup>8</sup>	GRO VOC/PVOC <sup>15</sup> Pb <sup>12</sup>
Unleaded Gasoline; Grades 80 100, and 100 LL (Low Lead) Aviation Fuel	GRO²	Free Liquids <sup>6</sup> GRO Benzene <sup>7</sup> Pb <sup>7</sup> Haz. Waste Deter. <sup>8</sup>	GRO PVOC
Diesel; Jet Fuels; and No's 1, 2, and 4 Fuel Oil	DRO³	Free Liquids <sup>6</sup> DRO Benzene <sup>7</sup> Haz. Waste Deter. <sup>8</sup>	DRO <sup>3</sup> PVOC PAH <sup>13</sup> <sup>14</sup>
Crude Oil; Lubricating Oils; No. 6 Fuel Oil	DRO³	Free Liquids <sup>6</sup> DRO Haz. Waste Deter. <sup>8</sup>	DRO <sup>3</sup> PAH <sup>13</sup> 14
Unknown Petroleum	GRO <sup>7</sup> and DRO <sup>3</sup> <sup>4</sup>	Free Liquids <sup>6</sup> GRO and DRO Pb, Cd <sup>7</sup> Haz. Waste Deter. <sup>8</sup> CN <sup>19</sup> S <sup>2</sup> 10	GRO and DRO <sup>3 4</sup> VOC/PVOC <sup>15</sup> PAH <sup>13 14</sup> Pb, Cd <sup>12</sup>
Waste Oil	DRO <sup>3</sup>	Free Liquids <sup>6</sup> DRO Pb, Cd <sup>7</sup> Haz. Waste Deter. <sup>8</sup> CN <sup>19</sup> S <sup>2 10</sup>	DRO <sup>3</sup> VOC/PVOC <sup>15</sup> PAH <sup>13</sup> 14 PCBs <sup>16</sup> Pb, Cd <sup>12</sup>

#### 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

	DRINKING WA	TER SAMPLES	
Test	Original Sample Container	Preserved	Holding Time to Analysis
WET CHEMISTRY			
Alkalinity SM2320B/EPA 310.2	250 mL HDPE	4°C	14 days
Ammonia EPA 350.1	250 mL HDPE	4°C, pH<2 with 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 H₂SO <sub>4</sub>	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 H₂SO₄	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 <sub>4</sub>	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 H₂SO₄	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 <sub>2</sub> SO <sub>4</sub>	28 days
Phosphorus, Total EPA 365.3	250 mL HDPE	4°C, pH<2 with H <sub>2</sub> SO <sub>4</sub>	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 HNO <sub>3</sub>	28 days
ORGANICS		. 0, p. 2	
UNGAINICS	1 Liter amber glass,		
Semivolatiles SW846 8270C	collect 2 for one of the samples submitted .	4°C	7 days extr. 40 days following ext
PAH SW846 8270C	1 Liter amber glass, collect 2 for one of the samples submitted	4°C	7 days extr. 40 days following extr
PCB SW846 8082	1 Liter amber glass, collect 2 for one of the samples submitted.	4°C	7 days extr. 40 days following ext
DRO, Modified DNR Sep 95	1 Liter amber glass with Teflon lined cap	4°C, 5 mL 50% HCI	7 days extr. 40 days following ext
VOC'S SW846 8260B/EPA524.2	(3) 40 mL glass vials with Teflon lined septum caps	4°C, 0.5 mL 50% HCI, No Headspace	14 days
GRO/VOC	(4) 40 mL glass vials with Teflon lined septum caps	4°C, 0.5 mL 50% HCl prior to adding sample to jar	14 days
GRO, Modified DNR Sep 95	(2) 40 mL glass vials with Teflon lined septum caps	4°C, 0.5 mL 50% HCl prior to adding sample to jar	14 days
GRO/PVOC	(2) 40 mL glass vials with Teflon lined septum caps	4°C, 0.5 mL 50% HCl prior to adding sample to jar	14 days
PVOC	(2) 40 mL glass vials with Teflon lined septum caps	4°C, 0.5 mL 50% HCl prior to adding sample to jar	14 days

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

#### **SYNERGY ENVIRONMENTAL LAB – Sample Bottle Requirements**

# TABLE 2 SAMPLE & PRESERVATION REQUIREMENTS FOR SOIL SAMPLES

	Original	Preserved	Holding Times from Date and Time of Collection			
Test	Sample Container		Solvent Addition	Shipping	Extraction	Analysis
METALS	a de la companya de l					
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				oklasi luk		
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.

LUST Investigation Field Procedures Workplan - METCO Lueptow Property

**APPENDIX D/WDNR DOCUMENTS** 

#### HAZARDOUS SUBSTANCE/WASTE RELEASES:

#### INTERIM SOIL CLEANUP GUIDELINES -- PETROLEUM CONTAMINATION

#### DNR Closeout Action

Soils Inaccessible or

accessible and not technically and economically BTEX (1) GRO/DRO Soil Type (2) Soils Accessible feasible <= NR 720 <= 100 ppm Permeable Close Close (K>10 E-6 cm/s) <= NR 720 <= 250 ppm Less Permeable Close Close  $(K \leq 10 E-6 cm/s)$ Require additional Close with consideration > applic. <= NR 720 GRO/DRO work of deed instrument according to guidelines or > NR 720

Benzene 5.5 ug/kg
Toluene 1500 ug/kg
Ethylbenzene 2900 ug/kg
Xylenes 4100 ug/kg
1,2-DCA 4.9 ug/kg

(2) K: Saturated hydraulic conductivity

<sup>(1)</sup> BTEX: proposed criteria developed in preparation of NR 720:

(b) No soil contamination is present at the site that exceeds any of the soil screening levels in Table 1.

<u>Table 1</u>
Indicators of Residual Petroleum Product in Soil Pores

,	Soil Screening
	Levels (mg/kg)
Benzene	<u>8.5</u>
<u>1,2-DCA</u>	<u>0.6</u>
Ethylbenzene	4.6
Toluene	<u>38</u>
Xylene	<u>42</u>
1,2,4 - Trimethylbenzene	<u>83</u>
1,3,5 - Trimethylbenzene	<u>11</u>
Naphthalene	<u>2.7</u>

(c) There is no soil contamination within 4 feet of the ground surface that exceeds any of the direct contact soil contaminant concentrations for the substances listed in Table 2.

# <u>Table 2</u> Protection of Human Health from Direct Contact with <u>Contaminated Soil</u>

Substance	Soil Contaminant
	Concentrations
<u>.</u>	Top 4 ft of the soil) (mg/kg)
Benzene	1.10
1,2-Dichloroethane (DCA)	0.54

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

Wastewater or Situage, Which is not a land disposal system.

History: Cr. Register, Septentier, 1985, No. 357, eff. 10–1–85, cr. (1m), am (7), (17) and (18), Register, October, 1988, No. 394, eff. 11–1–88, am (6), cr. (20h) and (20m), Register, March, 1994, No. 459, eff. 4–1–94; cr. (1s), (10e), (10s), (20k), r. and recr. (12), (13), Register, August, 1995, No. 476, eff. 9–1–95; cr. (14m), Register, October, 1996, No. 490, eff. 11–1–96; am (20), Register, Duranter, 1998, No. 516, eff. 1–1–99; cortection in (9) made under s. 13.93 (2m) (b) 7, Stats, Register, April, 2001, No. 544; CR02–134: cr. (1u), (1w), (1y) and (20s) Register June 2003 No. 570, eff. 7–1–03.

#### Subchapter II — Groundwater Quality Standards

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

Note: For all substances that have carcinogenic, managenic 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

Enforcement Standard (micrograms Preventive Action Limit (micrograms				
Substance <sup>1</sup>	per liter – except as noted)	per liter – except as noted)		
Acetochlor	7	0.7		
Acetochlor ethane sulfonic acid + oxanilic acid (Acetochlor - ESA + OXA)	230	46		
Acetone	9 mg/l	1.8 mg/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	I		
Asbestos	7 million fibers per liter (MFL)	0.7 MFL		
Atrazine, total chlorinated residues	3 <sup>2</sup>	$0.3^{2}$		
Bacteria, Total Coliform	$0_3$	$O_3$		
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		
Bromonethane	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		
Chlopyrifos	2	0.4		
Chloromethane	30	3		
Chromium (total)	100	10		
Chrysene	0.2	0.02		

Table 1 — Continued Public Health Groundwater Quality Standards

Substance <sup>1</sup>	Enforcement Standard (micrograms per liter – except as noted)	Preventive Action Limit (micrograms per liter – except as noted)	
Cobalt	40	8	
Соррет	1300	130	
Cyanazine	1	0.1	
Cyanide, free <sup>4</sup>	200	40	
Dacthal	70	14	
1,2-Dibromoethane (EDB)	0.05	0.005	
Dibromochloromethane	60	6	
1,2—Dibrorno—3—chloropropane (DBCP)	0.2	0.02	
Dibutyl phthalate	1000	100	
Dicarriba	300	60	
1,2-Dichlorobenzene	600	60	
1,3—Dichlorobenzene	600	120	
1,4-Dichlorobenzene	75	15	
Dichlorodifluoromethane	1000	200	
1,1-Dichloroethane	85●	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—ethylhoxyl) phthalate	6	0.6	
Directlenamid/Directlenamid—P	50	5	
Dimethoate	2	0.4	
	0.05	0.005	
2,4—Dinitrotoluene	0.05	0.005	
2,6-Dinitrotoluene Dinitrotoluene, Total Residues <sup>5</sup>	0.05	0.005	
Dinoseb	7	1.4	
1,4—Dioxane	3	0.3	
Dioxin (2, 3, 7, 8–TCDD)	0.0003	0.00003	
Endrin	2	0.4	
EPTC	250	50	
	700	140	
Ethylbenzene	1000	100	
Ethyl ether			
Ethylene glycol	14 mg/l	2.8 mg/l	
Fluoranthene	400	80	
Fluorene	400	80	
Fluoride	4 mg/l	0.8 mg/l	
Fluorotrichloromethane	3490	698	
Formaldehyde	1000	100	
Heptachlor	0.4	0.04	
Heptachlor epoxide	0.2	0.02	
Hexachlorobenzene	1 .	. 0.1	
N-Hexane	600	120	
Hydrogen sulfide	30	6	
Lead	15	1.5	
Lindane	0.2	0.02	
Manganese	300	60	
Mercury	2	0.2	

Table 1 — Continued
Public Health Groundwater Quality Standards

rub	lic Health Groundwater Quality Standa		
Substance <sup>1</sup>	Enforcement Standard (micrograms per liter – except as noted)	Preventive Action Limit (micrograms per liter – except as noted)	
Methanol	5000	1000	
Methoxychlor	40	4	
Methylene chloride	5	0.5	
Methyl ethyl ketone (MEK)	4 mg/l	0.8 mg/l	
Methyl isobutyl ketone (MIBK)	500	50	
Methyl tert-butyl ether (MTBE)	60	12	
Metolachlor/s-Metolachlor	100	10	
Metolachlor ethane sulfonic acid + oxanilic acid (Metolachlor - ESA + OXA)	1.3 mg/l	0.26 mg/l	
Metribuzin	70	14	
Molybdenum	40	8	
Monochlorobenzene	100	20	
Naphthalene	100	10	
Nickel	100	20	
Nitrate (as N)	ľ∙mg⁄l	2 m <b>g</b> /l	
Nitrate + Nitrite (as N)	10 mg/l	2 mg/l	
Nitrite (as N)	1 mg/1	0.2 mg/l	
N-Nitrosediphenylamine	7	0.7	
Pentachlorophenol (PCP)	1	0.1	
Perchlorate	. 1	0.1	
Phenol	2 mg/l	0.4 mg/l	
Picloram	500	100	
Polychlorinated bipherryls (PCBs)	0.03	0.003	
Prometon	100	20	
Propazine	10	2	
Pyrene	250	50	
Pyridine	10	2	
Selenium	50	10	
Silver	50	10	
Simazine	4	0.4	
Styrene	100	10	
Tertiary Butyl Alcohol (TBA)	12	1.2	
1,1,1,2—Tetrachloroethane	70	7	
1,1,2,2—Tetrachloroethane	0.2	0.02	
Tetrachloroethylene	5	0.5	
Tetrahydrofuran	50	10	
Thallium	2	0.4	
Toluene	800	160	
Toxaphene	3	0.3	
1,2,4—Trichlorobenzene	70	14	
1,1,1—Trichloroethane	200	40	
1,1,2—Trichloroethane	5	0.5	
Trichloroethylene (TCE)	5	0.5	
2,4,5—Trichloruphenoxy—propionic acid (2,4,5—TP)	50	5	
1,2,3—Trichloropropane	60	12	
Trifluralin	7.5	0.75	
Trimethylbenzenes	480	96	
	100	70	
	20		
vanadium	30	б	
(1,2,4— and 1,3,5— combined) Vanadium	30	90	

#### Table 1 – Continued Public Health Groundwater Quality Standards

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

<sup>1</sup> Appendix Loontains Chemical Abstract Service (CAS) registry numbers, common synonyms and trade names for most substances listed in Table 1.

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, Legenter, 1998, No. 516, eff. 1–1–99; am Table 1, Register, Describer, 1998, No. 516, eff. 12–31–99; am Table 1, Register, Describer, 1998, No. 516, eff. 12–31–99; am Table 1, Register, Describer, 1998, No. 516, eff. 12–31–99; am Table 1, Register, November 2006 No. 611, eff. 12–106; CR 03–063: am Table 1, Register February 2004 No. 578, eff. 3–1–04; CR 02–095: am Table 1, Register November 2006 No. 611, eff. 12–1–06; reprinted tocorrect errors in Table 1, Register January 2007 No. 613; CR 07–034: am Table 1 Register January 2008 No. 625, eff. 2–1–08; CR 09–102: am Table 1 Register December 2010 No. 660, eff. 1–1–11.

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

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

Table 2
Public Welfare Groundwater Quality Standards

Substance	Enforcement Standard (milligrams per liter — except as noted)	Preventive Action Limit (milligrams per liter – except as noted)
Chloride	250	125
Color	15 color units	7.5 color units
Foarning 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 appropriate regulatory agency that a standard has been attained or exceeded; and
- (b) The regulatory agency shall require a response in accordance with the rules promulgated under s. 160.21, Stats. No response shall be required if it is demonstrated to the satisfaction of the appropriate regulatory agency that a scientifically valid determination cannot be made that the preventive action limit or enforcement standard for a substance in Table 1 or 2 has been attained or exceeded based on consideration of sampling procedures or laboratory precision and accuracy, at a significance level of 0.05.
- (2) The regulatory agency shall use one or more valid statistical procedures to determine if a change in the concentration of a substance has occurred. A significance level of 0.05 shall be used for all tests.

- (3) In addition to sub. (2), the following applies when a preventive action limit or enforcement standard is equal to or less than the limit of quantitation:
- (a) If a substance is not detected in a sample, the regulatory agency may not consider the preventive action limit or enforcement standard to have been attained or exceeded.
- (b) If the preventive action limit or enforcement standard is less than the limit of detection, and the concentration of a substance is reported between the limit of detection and the limit of quantitation, the regulatory agency shall consider the preventive action limit or enforcement standard to be attained or exceeded only if:
- 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

<sup>&</sup>lt;sup>2</sup> Total chlorinated atrazine residues includes parent compound and the following metabolites of health concern: 2-chloro-4-armin-6-is propylamino-s-triazine (formerly deisopropylatrazine) and 2-chloro-4,6-diamino-s-triazine (formerly diaminoatrazine).

<sup>&</sup>lt;sup>3</sup> Total coliform bacteriarmay not be present in any 100 ml sample using either the membrane filter (MF) technique, the presence (P—A) coliform test, the minimal medium ONPG—MUG (MMO—MUG) test or not present in any 10 ml portion of the 10—tube multiple tube fermentation (MTF) technique.

<sup>4&</sup>quot;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".

<sup>&</sup>lt;sup>5</sup> Dinitrotoluene, Total Residues includes the dinitrotoluene (DNT) isorters: 2,3-DNT, 2,4-DNT, 2,5-DNT, 2,6-DNT, 3,4-DNT and 3,5-DNT.

<sup>6</sup> Xylene includes meta-, ortho-, and para-xylene combined.

**LUST Investigation Field Procedures Workplan - METCO Lueptow Property** 

#### **APPENDIX E/PROJECT DOCUMENTS**



#### State of Wisconsin

#### \ DEPARTMENT OF NATURAL RESOURCES

Carroll D. Besadny
Secretary

910 Highway 54 East Black River Falls, Wisconsin 54615-9204

May 15, 1991

File Ref: 4440

Robert and Connie Lueptow W448 CTH Z Mondovi, WI 54755 CERTIFIED MAIL
RETURN RECEIPT REQUESTED

RE: Soil Contamination at the Lueptow Property, Mondovi, Buffalo County

Dear Mr. and Mrs. Lueptow:

The Department of Natural Resources has been notified by the Mondovi Fire Department that petroleum contamination was discovered during a tank removal at the above facility. The purpose of this letter is to inform you of your legal responsibilities to address this situation.

Wisconsin Statute 144.76(3) states: "A person who possesses or controls a hazardous substance which is discharged or who causes the discharge of a hazardous substance shall take the actions necessary to restore the environment to the extent practicable and minimize the harmful effects from the discharge to the air, lands, or waters of the state."

Releases from underground storage tanks are also regulated by federal law. The Environmental Protection Agency (EPA) administers the federal law and has authority to take enforcement actions against parties not cooperating with the state.

Because a hazardous substance has been released to the environment, you are responsible for conducting an investigation to determine the extent of contamination and potential for groundwater impact. Remedial actions must be taken to clean up contaminated soils and groundwater, if applicable. An immediate concern is the need to identify any risks of explosive or toxic vapors and/or water well contamination.

Generally, the sooner a release is discovered and responded to, the smaller the damaging impacts and the cost of remediation are. Please be sure that all products, soils, wastewater or sludges are disposed of or treated in an approved manner.

The department requests that within 15 days of receiving this letter that you notify this office in writing whether you have hired an experienced environmental consultant to conduct a remedial investigation to assess the environmental impact. Please provide the following information:

- 1) Verification that you have hired a consultant
- 2) The name of the consultant
- 3) The date that the remedial investigation is to begin

The department requires that you have a qualified environmental engineer or hydrogeologist direct the remedial investigation. Your consultant may contact this office to obtain our guidelines for conducting a remedial investigation. Enclosed is a list of environmental consultants and engineers qualified to perform the necessary work.

Two copies of the reports containing complete documentation of the investigation and clean up shall be sent to this office when completed. The department is experiencing a backlog of leaking underground storage tank cases of emergency status and your case will be reviewed as time permits. You are reminded, however, that you have a legal obligation to take the steps necessary to clean up the discharge in a timely manner.

You are encouraged to contact the Department of Industry, Labor, and Human Relations (DILHR), the state agency that administers the Petroleum Environmental Cleanup Fund (PECFA). This fund will reimburse you for eligible costs associated with the remedial investigation and cleanup. DILHR should be contacted at (608) 267-4545 to obtain current information regarding the PECFA program. A summary of the PECFA program is enclosed.

Your cooperation in this matter will be appreciated. Please be aware that your ability to use PECFA funds is dependent on your cooperation in adequately addressing this problem.

If you contest that a release of a hazardous substance has occurred, you are required by state and federal law to conduct a tank closure assessment that follows all DILHR requirements. The purpose of a Tank closure assessment is to determine if there has been a release to the environment.

If you have any questions regarding this letter, please feel free to contact me at (715) 284-1428.

Sincerely,

RB

Timothy R. Baker Area Hydrogeologist

Enclosures

c: Bill Evans - WD John Paddock - WD Terry Bauer - DILHR, 2715 Post Road, Stevens Point, WI 54481

> File



#### State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

910 Highway 54 East Black River Falls, WI 54615 TELEPHONE 715-284-1400 TELEFAX715-248-1737

Carroll D. Besadny Secretary

July 11, 1991

File Code: 4440

Robert & Connie Lueptow W448 CTH Z Mondovi, WI 54755

RE: Petroleum Contamination Cleanup At Lueptow Property, Mondovi, Buffalo County.

Dear Mr. and Mrs. Lueptow:

During a recent review of your file, I noted that no work has been done since 05/28/91, when you were going to check with Bill Morresy, and call me back. Please bring me up to date on the status of your cleanup project. I request a brief written description of the current project status by 08/16/91.

If work has been done since we spoke, please submit a report documenting all work.

If you feel you have completed the cleanup at this site, please submit a final report and request a review of your file. Please be aware that the Department of Natural Resources (the department) has a significant backlog of cases similar to yours. Your case will be reviewed as time permits.

If work has been temporarily discontinued or if you are planning further investigative work, please provide me with a written statement of the current status of your case.

Please be advised that under the Spills Law (Wisconsin Statute 144.76), you have a legal responsibility to clean up all contamination. Although the department cannot review your case at every stage in the project, you are still required to take the steps necessary to restore the environment to the extent practicable. Please ask your environmental consultant for guidance on meeting Wisconsin's cleanup standards.

If you feel that you are currently eligible for a PEGFA payment, please apply to the Department of Industry, Labor and Human Relations. FORM 4 in the PEGFA application packet should be sent to me for my review and signature. Please be advised that failure to address this problem in an appropriate and timely manner will jeopardize your eligibility for PEGFA reimbursement.

In any case, please provide me with written notice of your case status by 08/16/91. You may contact me at (715)284-1428. Thank you for working to clean up Wisconsin's soils and groundwater.

Sincerely,

Timothy R. Baker Area Hydrogeologist

c: Dave Lundberg - WD Bill Evans - WD

Ju



#### State of Wisconsin

## Bil

#### DEPARTMENT OF NATURAL RESOURCES

Carroll D. Besadny Secretary

August 22, 1991

4190

Robert and Connie Lueptow W448 CTH Z Mondovi, WI 54755

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

RE: NOTICE OF VIOLATION

Petroleum Contamination at Lueptow property located in Mondovi, Wisconsin, Buffalo County

Dear Mr. and Mrs. Lueptow:

The Department of Natural Resources has been notified that petroleum ontamination was discovered during a tank removal at the above site. Because you are the legal property owners, you have a legal responsibility to address this problem.

S. 144.76(3), Wisconsin Statutes states that a person who possesses or controls a hazardous substance which is discharged or who causes the discharge of a hazardous substance shall take the actions necessary to restore the environment to the extent practicable and minimize the harmful effects from the discharge to the air, lands, or waters of the state.

Releases from underground storage tanks are also regulated by federal law. The Environmental Protection Agency (EPA) administers the federal law and has the authority to take enforcement actions against the parties who are not cooperating with the state.

Because a hazardous substance may have been released to the environment, you are responsible for conducting a remedial investigation to determine the extent of contamination and potential for groundwater impact. Remedial actions must be taken to clean up contaminated soils and groundwater, if applicable. An immediate concern is to identify any risks of explosive or toxic vapors and/or water well contamination.

The Department requests that within seven days of receiving this letter, you notify this office, in writing, with the name of the qualified environmental consultant which you have retained to conduct a remedial investigation on this property.

# FILE NOTE

acility/Company Name Location (Address or 1414)		14.41	City, State, Zip Code		
Luepton Pro Facility Type	sperty	CTH 6-7 mi	s of	Mondovi.	wt.
Facility Type	District	County	Contact Method	Date 5 /15 /91	Time (24-Hour Clock)
LUST.	MD	Buffelo	□ Telephone     □ In-Person	MMDDYY	<u>L3 L5</u>
Facility Representative Con	ntacted	Title or Position	of Representative	Telephone (include ar	
Bill Evans		DNA	Ż -	(	)
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# FILE NOTE

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Facility Type	District	County	Contact Method	Deta	Time (24-Hour Clock)
LUST.	<u>CW</u>	Buffalo	Telephone  In-Person	5/15/90 MMDDYY	1330
Facility Representative Co	intacted	1	of Representative	Telephone (include a	Number
Dennis Br	767 <u>`</u>	Mondo	i F.D.		1°126-3185
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# FILE NOTE

Facility/Company Name	Location (Address or	жи	City, State, Zip Code	
Luepton Property	CTH # 6	or7 mi Sof	Mondovi	
Facility Type District C	ounty	Contact Method	Data 5 / 15 /90	Time (24-Hour Clock)
LOST. WD	201720	Telephone In-Person	MMDDYY	1 6249
Facility Representative Contacted	Title or Position	of Representative	Telephon	Number SOCK
Connie Lupton	Port o	riner	American Contract Con	1926-4962
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(°'%	County	Contact Method Telephone		Time (24-Hour Clock)
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Facility Representative Contacted	Title or Po	osition of Representative	Telephone N (include are	umber a code)
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# FILE NOTE

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Lupton				Mendovi
Facility Type LUST	District WD	County	Contact Method Telephone In-Person	Date Time (24-Hour Clock)    M M D D Y Y   15 (5
Facility Representative	re Contacted	Title or Po	ntion of Representative	Telephone Number
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APPENDIX F/HEALTH AND SAFETY PLAN

		SAFETY PLAN INFORMATIO	DN STATE OF THE ST	
		OAI ETTT LANTIN ORWATIC		
Code: METCO	METO	CO Project No: C2141		
Company Name: M	IETCO			
Contact:				
Last Name: Powell		First Name: Ja	son	
Salutation: MR.				
P.O. Box		Street: 709 Gillett	te Street, Suite 3	
City: La Crosse		State WI	Zip Code: 54603-0000	
Area code: 608		Phone: 781-8879	Fax: (608)781-8893	
Alica code. God				
		SITE INFORMATION		
Site Name: Luept	ow Property			
Site Count	y Highway H		Site Address City: Independence	
Address: Site Address State:	WI Site Address	Zip Code: 54747	Site Address County: Buffalo	ratanis atau kasin, et eus atau e escesas () () 
WDNR Contact:	Tom Kendzierski		Fire Dept. Contact: Town of Dove	Malegous aspoyaeestampijs, isplyk (sold in labelijs). P
Project Date: 8	/27/2012	Tan	k Removal Contractor:	ii gaalaa ka ka ka ka ka ka ka ka ka ka ka ka k
General Contractor:				
		TANK INFORMATION		and Allender Association organic contraction
Tank Sizes\Contents	<b>.</b>			
Tank 1: \$500	Contents:	Gasoline	Age: Removed	
Tank 2: 250	Contents:	Gasoline	Age: Removed	
Tank 3:	Contents:		Age:	
Tank 4:	Contents:		Age:	
Tank 5:	Contents:		Age:	
Tank 6:	Contents:		Age:	
	PUR	POSE OF ACTIVITY (Check all a	ppropriate)	
New Tank Installatio	n 🗍	Tank Closure	Install Tank Leak Detection	1 <b> </b>
Tank/Pipe Removal		Tank\Pipe Repair	Install Spill Protection	- Д
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		TYPE OF SITE		

#### SITE HEALTH AND SAFETY PLAN

	POTENTA	AIL HEALTH AND SAFETY H	AZARDS (check all appropriate	te)
Handling\transfer of  * Fire  * Explosions  General Construction  * Electrical Haz  * Physical Injury  Confined Space Ent  * Explosions  Description of site-s  Underground utilities	on:  zards  y  try:  specific hazards (utilities	Heavy Equipment:  Noise:  Oxygen Depletion:  Excavation  * Cave-ins  * Falls, slips  Poisonous plants:  Other (Specify):  s, terrain, etc.):	Snakes: Insects: Rodents: Heat: Cold:	
	EVALUATION	OF CHEMICAL HAZARDS (N	ASDS sheets attached)	
NAME	PHYSICAL STATE	ROUTE OF ENTRY	OSHA PEL/TL	SYMPTOMS OF EXPOSURE
1.	Vapor/Liq	Inh/Skin	25-300PPM	Nausea, Irritation
<ol> <li>Gasoline</li> <li>Gasoline</li> </ol>	Vapor/Liq	Inh/Skin	25-300 PPM	Irritation of eyes, nose and throat
	ON-SITE	E PERSONNEL RESPONSIBI	ILITIES	
Team Member  1. Jason Powell 2. Eric Dahl 3. Brandon Walker 4. Matt Michalski		Responsibiliti Site Project M Hydrogeologis Environmenta Environmenta	lanagement st Il Tech	
	METHOD T	O CONTROL POTENTIAL H	EALTH AND SAFETY HAZAF	RDS
		MONITORING INS	TRUMENTS	
Combustible Gas In  Action Levels 0-10% I FI No F Action Levels Normal: Oxygen Deficient: Oxygen Deficient: Photoionization Dete	xolosion Hazard 21% Less than 21% Less than 19.5%	Action None Action None None Notify Evacu Ionization Detector:	Health & Safety Officer uate Detector Tubes:	

# SITE HEALTH AND SAFETY PLAN

	PERSONAL PROTECTIVE EQUIPMENT	4
Minimum Requirements	Company of the Compan	
1. Hardhat		
Safety glasses\goggles     Steel toes\shank shoes or boots		
4. Flame retardant coveralls		
5. Hearing protection (muffs or ear plugs)		
5. Treating protection (mans or ear plays)		
ls additional PPE required? yes:	no: 🗸	
Additional Requirements		
Uncoated tyvek coveralls:	Full face respirators:	
Saranex tyvek coveralls:	* type of catrridge:	
Rubber boots:	SCBA \ SAR:	
Overboots:	Other:	
Surgical Inner Gloves:		
Butyl Neoprene\nitrile outer gloves:	A CANADA AND AND AND AND AND AND AND AND AN	
Level of protection designated A: B	: 🔲 C: 🔲 🥠 D: 🗹	
	SITE CONTROL	
Work Zones		
Support Zone: Beyond a 25' Radius of dril	ling or excavation and upwind of operation	
Contamination Reduction Zone: Between	15 foot and 25 foot Radius of drilling or excavation	
	e entre en la comparte del la comparte del la comparte de la comparte de la comparte de la comparte de la comparte de la comparte de la comparte de la comparte de la comparte de la comparte de la comparte de la comparte de la comparte del la comparte de la comp	regresate dassis in negotione, tim negotieta especialista.
Exclusion Zone: Within 15 feet Radius of 6	excavation or machine operation	and the second of the second o
	tructions from Project Leader.	
Decontaminations Procedures:		
Personnel: Remove protective equipm	ent and wash hands prior to eating.	
Equipment: Wash with brush and Alco	nox soap and rinsed with portable water.	
Investigation-derived material disposal		
have to be approved by the Project Man	and covered with plastic. The client will determine the stockpile ager. Soils will be disposed of by the most efficient and cost ef content and date filled. Routinely inspect drums for leakage of minimum.	fective approved
Work Limitations: Daylight hours. No eating, di	rinking, or smoking in the exclusion zone or the contamination r	eduction zone.
Employee Limitations:		ug staat oo o da dhaqaataa waa baasaa ka aa da dha
Site Resources	;	
lan Approved by:	Date.	
Shower:		

#### SITE HEALTH AND SAFETY PLAN

#### CONTINGENCY PLANNING

LOCAL RESOURCES

Phone Number

Ambulance: Gilmanton

Hospital Emergency Room: Tri-County Memorial Hospital

Poison Control Center: Milwaukee

Police Buffalo County Sherrif

Fire Dept:

Gilmanton

Hazardous Waste Response Center:

911

(715) 538-4361

(800) 222-1222

911

911

800-943-0003 Wisconsin

EPA 800-424-8802

Location Address: County Highway H, Independence, WI

#### EMERGENCY ROUTES (attach maps)

Hospital:

Tri-County Memorial Hospital (18601Lincoln Street, Whitehall, WI) - Travel south on County Hwy H approx 1.8 miles to STH 121, turn left on STH 121 and travel east approx 18 miles to Whitehall. In Whitehall, turn right on West Street and travel 0.25 miles and hospital will be on left

Other:

#### **EMERGENCY PROCEDURES**

If an emergency develops at the site, the discoverer will take the following course of action:

\* Notify the proper emergency service (fire, police, etc.) for assistance.

\* Notify other personnel on the site. Notify Project Leader.

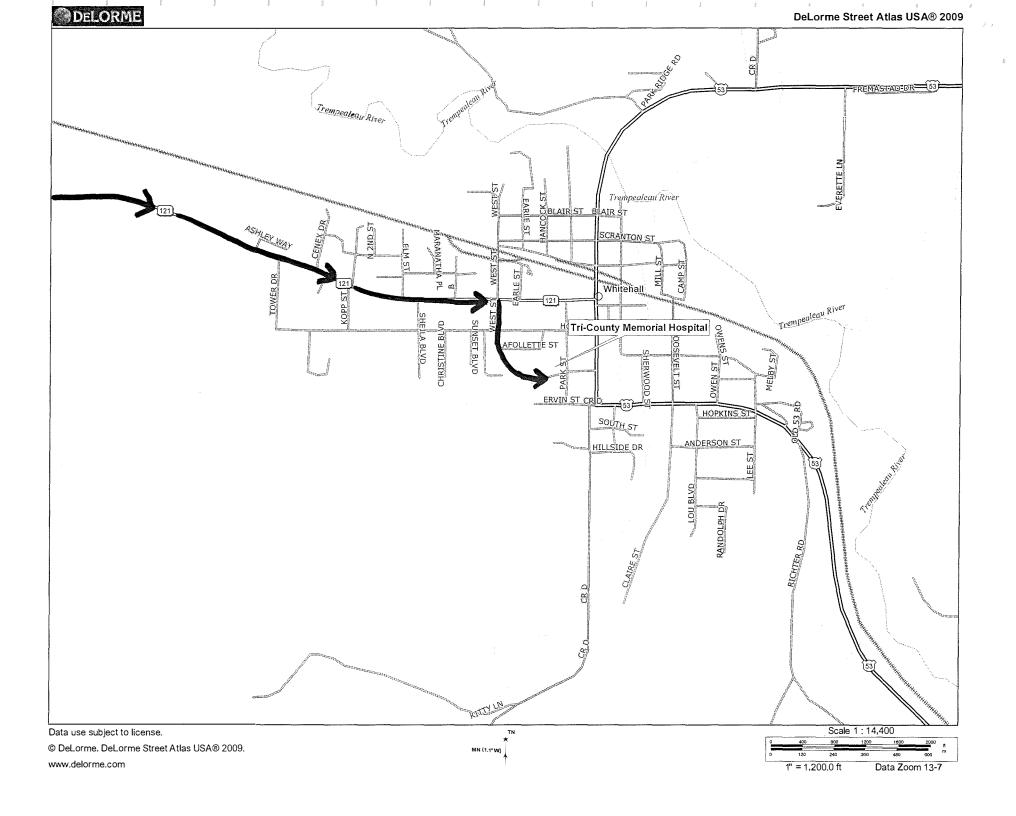
\* Contact METCO and the client representative to inform them of the incident as soon as possible.

\* Prepare a summary report of the incident for METCO and the client representative.

ON-SITE ORGANIZATION	PHONE NUMBERS
METCO Project Leader: Jason Powell	work 608-781-8879
	home 608-526-6108
METCO Safety Officer: Linda Eastman	work 1-800-236-0448
Engineer/Architect Contact:	home (608)489-2236
Client Contact: Lisa Lisowski	(715) 946-3311
METCO Corporate Contact: Paul Knower	home (608)489-2659
	work 1-800-236-0448

# DAILY SAFETY PLAN CHECK

- 1. Hard-hat
- 2. Visible fire extinguisher
- 3. Safety glasses
- 4. Hearing protection
- 5. No smoking on site
- 6. Safety data sheet
- 7. Route to hospital
- 8. Barricades (cones, flags, fences, vehicle)
- 9. Emegency phone numbers
- 10. Know where the job site book is



**APPENDIX G/QUALIFICATIONS** 

# Ronald J. Anderson, P.G.

#### **Professional Titles**

- · Senior Hydrogeologist
- Project Manager

#### Credentials

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

#### Education

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

#### **Post-Graduate Education**

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

#### Work Experience

Includes nine months with the Wisconsin Department of Natural Resources Leaking Underground Storage Tank Program regulating LUST sites and since June 1990, with METCO as a Hydrogeologist and Project Manager. Duties have included: managing, conducting, and reporting tank closure assessments; property assessment, LUST investigations; spill investigations; agricultural chemical investigations, dry cleaning chemical investigations, general geotechnical/environmental investigations; Geoprobe projects (soil, groundwater, soil gas sampling); drilling projects (soil boring and monitoring wells); and remedial projects. Since 1989, METCO has sampled/consulted over 700 environmental sites.

## Jason T. Powell

#### **Professional Title**

Staff Scientist

#### Credentials

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

#### Education

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

#### **Post-Graduate Education**

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

#### **Work Experience**

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

## Eric J. Dahl

#### **Professional Title**

Hydrogeologist

#### Credentials

- Recognized by the State of Wisconsin Department of Natural Resources (Chapter NR712) as a qualified Hydrogeologist.
- Registered through the Wisconsin Department of Commerce as a PECFA consultant (#823519).
- Member of the Geological Society of America

#### Education

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

#### **Post-Graduate Education**

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

#### Work Experience

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

# Thomas P. Pignet, P.E.

#### **Professional Titles**

- Chemical Engineer
- Industrial Engineer

#### Credentials

- Licensed Professional Engineer in Wisconsin

#### Education

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

#### **Post-Graduate Education**

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

#### Work Experience

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

## Brandon A. Walker

#### **Professional Title**

Staff Scientist

#### Credentials

• Registered through the Wisconsin Department of Commerce as a PECFA consultant (#1052577).

#### Education

Includes B.S. in Geography and a minor in Environmental Studies from the University of Wisconsin- La Crosse. Applicable courses successfully completed include Water Resources, Ecology, Climate Systems, Earth Science, Zoology, Fundamentals of Cartography, Interpretation of Aerial Photography, Global Issues, Urban Geography, Environmental Sociology, and Environmental Studies.

## **Work Experience**

With METCO since April 2007 as a Staff Scientist. Duties have included: soil and groundwater sampling, operation and maintenance of remedial systems, geoprobe projects (oversight, direction, and sampling), site mapping, data reduction and analysis, and reporting.



# State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Tommy G. Thompson, Governor George E. Meyer, Secretary Scott A. Humrickhouse, Regional Director West Central Region Headquarters 1300 W. Clairemont Avenue PO Box 4001 Eau Claire, Wisconsin 54702-4001 Telephone 715-839-3700 FAX 715-839-6076 TDD 715-839-2786



CERTIFIED MAIL
RETURN RECEIPT REQUESTED

BRRTS No. 03-06-000583

Mr. and Mrs. Robert Lueptow W448 CTH Z Mondovi, WI 54755

SUBJECT:

NOTICE OF NON-COMPLIANCE

Petroleum Contamination Investigation at Lueptow Property, Mondovi, WI

Dear Mr. and Mrs. Lueptow:

The purpose of this letter is to advise you that you may not be in compliance with Section 292.11(3), Wisconsin Statutes, the hazardous substance spill law. On April 6, 1995, the Department of Natural Resources (DNR) sent you a letter requiring you to update this office on the status of your cleanup project by May 6, 1995. As of this date, you have not reported any progress in meeting state cleanup requirements.

The hazardous substance spill law, section 292.11 (3), states:

RESPONSIBILITY. A person who possesses or controls a hazardous substance which is discharged or who causes the discharge of a hazardous substance shall take the actions necessary to restore the environment to the extent practicable and minimize the harmful effects from the discharge to the air, lands, or waters of the state.

To comply with the hazardous substance law, by June 28, 1999, you must provide me with written confirmation that you have hired a consultant, and by July 28, 1999, submit a workplan for doing the contamination investigation. Should you fail to comply, the DNR will need to pursue enforcement actions, which may include an enforcement conference, and filing of an affidavit of contamination on the deed for this property. Violations of the spill law can also be subject to monetary forfeitures.



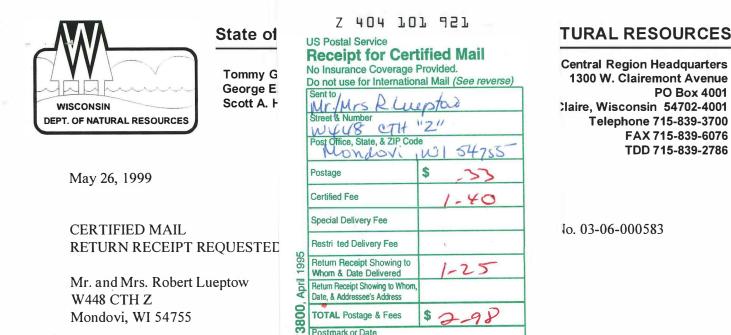


Mr. and Mrs. Robert Lueptow - 05/26/99 - Page 2

I look forward to hearing from you, and to working with you and your consultant to investigate this contamination, and progress toward case closeout. If you have any questions about this letter or what needs to be done, please feel free to call me at (715) 839-3824.

Sincerely,

Eileen Kramer Hydrogeologist Remediation & Redevelopment Program



Postmark or Date

Form

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5-26-99

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NOTICE OF NON

Petroleum Contam

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Sincerely,

Eileen Kramer Hydrogeologist Remediation & Redevelopment Program



## State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Tommy G. Thompson, Governor George E. Meyer, Secretary Scott A. Humrickhouse, Regional Director West Central Region Headquarters 1300 W. Clairemont Avenue PO Box 4001 Eau Claire, Wisconsin 54702-4001 Telephone 715-839-3700 FAX 715-839-6076 TDD 715-839-2786

May 26, 1999

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

BRRTS No. 03-06-000583

Mr. and Mrs. Robert Lueptow W448 CTH Z Mondovi, WI 54755

SUBJECT:

NOTICE OF NON-COMPLIANCE

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Sincerely,

Eileen Kramer Hydrogeologist

Remediation & Redevelopment Program

STATE OF WISCONSIN, CIRCUIT COURT, BUFFALO COUNTY	PAGE 605
ROBERT M. LUEPTON FINDINGS AND ORDER BUFFAL Receive	ER OF DEEDS O COUNTY, WIS. \$5. Indicate the second the
File No. 96 PR 4Z 0'clock	
THE COURT FINDS THAT:	MA CANOL
1. The named person, died on <u>Aug. 26</u> , 1994, domiciled in <u>Buffalo</u> C	ounty, Wisconsin.
<ol><li>The estate is one properly settled under summary settlement. If notice to the Department of Health Services was required, more than 30 days have elapsed since that notice was sent to the Department.</li></ol>	and Social nt.
3. The property of the decedent is described as follows:	
DESCRIPTION OF PROPERTY	VALUE AT DATE OF DEATH
A. Individual and Predetermination Date Property:  1. 1979 Keifer PT 165006  2. 14' Crestliner Boat and Trailer Hull ID# WSZ276290891  3. Real Estate (see legal description on Exhibit A attached)  4. Buffalo Equity Credits  5. 1986 Buick VIN 1G4AL19X4G6437794  6. 1983 Explorer VIN 1FTHF26L1BPA88084  TOTAL:	\$ 200.00 150.00 7,000.00 395.03 300.00 200.00 \$ 8,245.00
FILED	
B. Joint Tenancy Property and Name of Joint Tenant(s):  JUN 2 6 1996  NONE  BUFFALO COUNTY	
REGISTER IN PROBATE	
	•
C. Survivorship Marital Property: Name of Spouse <u>Connie A. Lueptow</u> 1. That part of the Northeast Quarter of the Southwest Quarter, Section 29, T 23 N, R 10 West, lying West	7.500.00
of the Town Road 2. Residence: see legal description on Exhibit B attached	\$ 7,500.00 15,700.00
TOTAL:	\$23,200.00
St te of Wisconsin  County of Buffalo  This document is a full, true and  Sorrect copy of the original on file	
NONE Seen compared by ma.  NONE Aust: 1996	
Register in Probate	16.02

§867.01, Wisconsin Statutes
BEAR GRAPHICS, NC 1-800-325-8094

PR-1439, 10/93 SUMMARY SETTLEMENT-FINDINGS AND ORDER Page 1 of \_\_\_\_

188495

VOL. 243 PAGE 607

EXHIBIT A

## ROBERT M. LUEPTOW SUMMARY SETTLEMENT

Lands in Buffalo County described as follows:

Commencing at a point 4 rods South and 23 rods West of the Southeast corner of the NW¼ of the NE¼ of Section 14, Township 24 North, Range 11 West, thence run South 8 rods, thence East 4 rods, thence North 8 rods, thence West 4 rods to place of beginning.

Commencing at the Northwest corner of Lot 370 of the 1940 Assessor's Plat of the City of Mondovi, as prepared by Frank J. Davy and Son, thence running South 8 rods to the South line, thence East 4 rods, thence North 8 rods to the North line, thence West 4 rods to place of beginning. Lot 370 A of the Assessor's Plat of the City of Mondovi.

Subject to Life Estate of Madoline E. Lueptow.

Ob

18945

VOL. 243 PAGE 608

EXHIBIT B

## ROBERT M. LUEPTOW SUMMARY SETTLEMENT

Lands in Buffalo County described as follows:

Commencing at the Southwest corner of the Southwest Quarter of the Northeast Quarter, Section 8, Township 23 North, Range 10 West, thence East 1½ rods, thence North 10½ rods, to point of beginning, said point of beginning being the point of intersection of the North line of County Trunk Highway Z and the East line of County Trunk Highway H; thence Northeasterly along the North edge of said County Trunk Highway Z 200 feet, thence Northwesterly to a point 136 feet North of the point of beginning, thence South to point of beginning.

ALSO, commencing at the Southwest corner of the Southwest Quarter of the Northeast Quarter of Section 8, Township 23 North, Range 10 West, thence running East 1½ rods, thence North 10½ rods to the North line of County Trunk Highway Z, thence Northeasterly along the North edge of said County Trunk Highway Z 200 feet to point of beginning, thence running Northeasterly along the North edge of said County Trunk Highway Z 86 feet, thence Northwesterly at right angles to said County Trunk Highway Z 40 feet, thence Southwesterly parallel to County Trunk Highway Z 50 feet, thence Southwesterly to a point of beginning.

lock No. 11142	SIPCO	187366
428 (5/24/95) CWlaconaln Benkera Association 1995		187366 VOL 240 PAGE 481
OCUMENT NO.		
REAL ESTATE № (For Consumer or Business N		REGISTER OF DEEDS SS. BUFFALO COUNTY, WIS.
Connie A. Lueptow, a Sir	ngle Person ("Mortgagor,"	Received for Record the Coday of Mach A. D. Sat Sat
hether one or more) mortgages, conveys and warr	rents to Bank of Mondovi	o'clock A M and recorded in Vol. 30 of Rec Page 104
consideration of the sum of Thirty Thous	sand Dollars and No/100  Dollars (\$ 30,000.00 ),	Deputy
aned or to be lo ned to	("Borrower," whether one or more),	Recording Area A A
videnced by Borrower's note(s) or agreement date	e real estate described below, together with all	Name and Return Address
rivileges, heredilaments, easements and appurten aims, awards and payments made as a result of the xisting and future improvements and fixtures (all c	nances, all rents, leases, issues and profits, all exercise of the right of eminent domain, and all called the "Property").	Bank of Mondovi P.O. Box 187 Mondovi, WI 54755
1. Description of Property. (This Property	(Is) (Is not)	
See Attached		Per cel identifier No.
		;
3. Escrow. Interest	e paid on escrowed funds if an escrow is require to the Additional Provisions on the reverse side, w ct copy of this Mortgage.	d under paragraph 8(a) on the reverse side. rhich are incorporated herein.
3. Escrow. Interest	e paid on escrowed funds if an escrow is required the Additional Provisions on the reverse side, we call the Additional Provisions on the reverse side, we call the Additional Provision Governed by THO THE WRITING ON THE REVERSE SIDE, EVANT SPACES.  BYY OF ANY AGREEMENT YOU SIGN.  PAYIN ADVANCE THE UNPAID BALANCE DUE	d under paragraph 8(a) on the reverse side. which are incorporated herein. HE WISCONSIN CONSUMER ACT HEN IF OTHERWISE ADVISED.
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187366

VOL 240 PAGE 486

Amended Caption 1-A

To the following described Real Estate situated in the County of Buffalo, State of Wisconsin, described as follows, towit:

Commencing at the Southwest Corner of the Southwest Quarter of the Northeast Quarter, Section 8, Township 23 North, Range 10 West, thence East  $1\frac{1}{2}$  rods, thence North  $10\frac{1}{2}$  rods, to point of beginning, said point of beginning being the point of intersection of the North line of County Trunk Highway Z and the East line of County Trunk Highway H; thence Northeasterly along the North edge of said County Trunk Highway Z 200 feet, thence Northwesterly to a point 136 feet North of the point of beginning, thence South to point of beginning.

Also commencing at the Southwest corner of the Southwest Quarter of the Northeast Quarter of Section 8, Township 23 North, Range 10 West, thence running East  $1\frac{1}{2}$  rods, thence North  $10\frac{1}{2}$  rods to the North line of County Trunk Highway Z, thence Northeasterly along the North edge of said County Trunk Highway Z 200 feet to point of beginning, thence running Northeasterly along the North edge of said County Trunk Highway Z 86 feet, thence Northwesterly at right angles to said County Trunk Highway Z 40 feet, thence Southwesterly parallel to County Trunk Highway Z 50 feet, thence Southwesterly to point of beginning.

Note by Abstracter: The purpose of this Amended Caption 1-A, is to increase the amount of property previously shown.



## State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Tommy G. Thompson, Governor George E. Meyer, Secretary Scott A. Humrickhouse, Regional Director West Central Region Headquarters 1300 W. Clairemont Avenue PO Box 4001 Eau Claire, Wisconsin 54702-4001 Telephone 715-839-3700 FAX 715-839-6076 TDD 715-839-2786

June 24, 1999



CERTIFIED MAIL
RETURN RECEIPT REQUESTED

BRRTS No. 03-06-000583

Mrs. Connie Lueptow W448 CTH Z Mondovi, WI 54755

SUBJECT:

NOTICE OF NON-COMPLIANCE

Petroleum Contamination Investigation at Lueptow Property, Mondovi, WI

Dear Mrs. Lueptow:

The purpose of this letter is to advise you that you may not be in compliance with Section 292.11(3), Wisconsin Statutes, the hazardous substance spill law. On April 6, 1995, the Department of Natural Resources (DNR) sent you a letter requiring you to update this office on the status of your cleanup project by May 6, 1995. As of this date, you have not reported any progress in meeting state cleanup requirements.

The hazardous substance spill law, section 292.11 (3), states:

RESPONSIBILITY. A person who possesses or controls a hazardous substance which is discharged or who causes the discharge of a hazardous substance shall take the actions necessary to restore the environment to the extent practicable and minimize the harmful effects from the discharge to the air, lands, or waters of the state.

To comply with the hazardous substance law, by July 23, 1999, you must provide me with written confirmation that you have hired a consultant, and by August 23, 1999, submit a workplan for doing the contamination investigation. Should you fail to comply, the DNR will need to pursue enforcement actions, which may include an enforcement conference, and filing of an affidavit of contamination on the deed for this property. Violations of the spill law can also be subject to monetary forfeitures.



Mrs. Connie Lueptow - 06/24/99 - Page 2

I look forward to hearing from you, and to working with you and your consultant to investigate this contamination, and progress toward case closeout. If you have any questions about this letter or what needs to be done, please feel free to call me at (715) 839-3824.

Sincerely,

Eileen Kramer Hydrogeologist Remediation and Redevelopment Program

## Kendzierski, Thomas J - DNR

From: Kendzierski, Thomas J - DNR

Sent: Friday, September 30, 2011 3:42 PM

To: Ron Anderson, METCO - Environmental Division

Subject: Lueptow Property file # 03 06 000583

**Attachments:** 20110930143349364.pdf



Hi Ron,

Here is a partial scan of the Lueptow property file. Not much of technical substance here. They need to start with a compliant tank closure assessment.

The attached scan is just some early stuff. The rest of the file is primarily DNR enforcement demands and phone calls from us asking for action.

If you need the rest of the file just let me know and I will copy and send.

Thanks for your efforts at getting things moving here. Please keep in touch with me regarding moving the other sites we discussed.

#### Tom Kendzierski

Regional Spill Coordinator/Hydrogeologist WDNR Eau Claire SPILL HOTLINE CALL 1 800 943-0003

(\*) desk phone: (715) 839-1604 (\*) fax: (715) 839-6076

----Original Message----

From: Ron Anderson, METCO - Environmental Division [mailto:rona@metcohq.com]

Sent: Friday, September 23, 2011 09:59 AM

To: Kendzierski, Thomas J - DNR

Subject: Re: phone call

Thanks Tom...I appreciate your help...ron - metco

On 9/23/2011 9:46 AM, Kendzierski, Thomas J - DNR wrote:

- > Not much in the file. I'll email the technical stuff next week for starters. Site needs a proper tank site assessment. Mostly enforcement letters in there. I'll snail mail the whole show. You can choose what you need. Lisa had called me too in response to your letters Good Work!
- > Tom Kendzierski WDNR Eau Claire
- > ---- Original Message -----
- > From: Ron Anderson, METCO Environmental Division
- > [mailto:rona@metcohq.com]
- > Sent: Friday, September 23, 2011 08:36 AM
- > To: Kendzierski, Thomas J DNR
- > Subject: phone call
- > Good morning Tom...
- > Thanks for returning my call...sorry I missed you.

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> The reason I was calling is to let you know the Lisa Lisowfki who owns
> the Lueptow Property site in Mondovi has asked me to become their
> agent...which we are now working on.
>
> Also, I was wondering if you could email me the file...assuming that
> there isn't too much in it.
>
> Let me know...thanks, ron
>
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THE NEV	EW/SUAMARY			
Site Name: Luptow Dopling	Co. Buffalo No. 583			
Location: WH48 MH 7 -	MON DOVI			
RP: RODEN + Connie Weptow	Phone #: 7/5 - 9 4 6 - 3550			
Consultant:	Phone #:			
Review Date: 1015195	Reviewed by:			
PECFA Status: Elig./Non-Elig.	F4 App'd for SI/PRAP:			
F4 App'd for RA:	F4 App'd for O&M:			
Depth to GW:	Flow direct'n:			
GW Cont'n:	No. of MWs			
Type of soil:	Soil cont'n:			
Potential Receptors:				
Chron/Summary:				
5/15/9 Call from Mondovi F	D to BEvans That 2 tanks			
were removed - both	had holes I had been at it semice			
5/15/90 Baker Called D. Brion	ne FD - FD told them (RP's)			
to remove tanks + follow	OW DILHTR reg'S			
5/15/9 Daker called RP-1	asked if tanks pulled - YES,			
asked if owner of vegi-	s-No -sent lotter w/ options			
5/15/90 sent RP letter 180	iter)			
5/28/90 phone call - dian't line	w tanks were there when prop bough			
7/11/91 prod letter (Baker				
\$13/91 call w/ chrono of p	ast owners (Mondavi oi), Buffedo Valley			
8/22/91 NOV Darrel Soll	erg)			
9/1/91 RP consulting w/	lawers (letter)			
117192 phone call - Not available				
of 3/92 panone coul-haven't found out any thing from				
lawyer, no \$, tanks still on property, topspooned				
14/94 phone call - no	consultant, looking for a			
Signature: All Manger and	Follow Up:			

Baver)

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		Annual Control of the		
	LOCATION:	Mc. JOVI		
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AGENCY/FIRM:	DATE:	01/14/94	TIME: / :/	5
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to states is. The informed me			lawyers	
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SIGNATURE:	FOLLOW-U	P REQUIRED?	YES	NO
	REFERRED	TO: _		

INSTRUCTIONS TO SENDER: STATE OF WISCONSIN REMOVE YELLOW COPY FOR YOUR FILE. REPLY MESSAGE CT WITH CARBONS TO PERSON ADDRESSED. SEND REMAINDER OF FORM I' FORM AD-16 Chris Poterson Schole Property: Ron anderson felt area was
clean enough to close 5-28-90. Then in
a phone conversation bet. Skip & 70s. Scholy,
at said there was more ?! Please see what
youthink I how should it be handled. SUBJECT-MESSAGE Lueptow Property! I returned to work first part of the year & called several times. I finally reached Mr. Lueptow Mothing has been decided on this case by them. SIGNED SUYLLA LOBBOATE 2-4-92

SIGNED -

# FILE NOTE

Facility/Company Name		Location (Address	Location (Address or 1/4/4)		City, State, Zip Code		
Lucatow Facility Type	Residence						
Facility Type	District	County	Contect Method	Date	Time (24-Hour Clock)		
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Facility Representative	Contacted	Title or Positi	ion of Representative	Telephone	Nomber		
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Sept. 1, HECEIVED Dear Mr. Sacherg, This is to let you know that we received your letter In answer to it, due to the Circumstances of the ownership and ren. registration of these tanks & the Concelment of these tanks when property was purchased, we have decided to consult with an attorney on this matter before we take any action. The have been in Contact through out the last few weeks with both Tim Baker of Old, Madeson & Terry Bauer - Dikle - Stevens Paint. The will continue to keep in Contact as to this matter Sincerely, Corne 6 Just



### State of Wisconsin

## DEPARTMENT OF NATURAL RESOURCES

Die

Carroll D. Besadny Secretary

August 22, 1991

4190

Robert and Connie Lueptow W448 CTH Z Mondovi, WI 54755

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

RE: NOTICE OF VIOLATION

Petroleum Contamination at Lueptow property located in Mondovi, Wisconsin, Buffalo County

Dear Mr. and Mrs. Lueptow:

The Department of Natural Resources has been notified that petroleum contamination was discovered during a tank removal at the above site. Because you are the legal property owners, you have a legal responsibility to address this problem.

S. 144.76(3), Wisconsin Statutes states that a person who possesses or controls a hazardous substance which is discharged or who causes the discharge of a hazardous substance shall take the actions necessary to restore the environment to the extent practicable and minimize the harmful effects from the discharge to the air, lands, or waters of the state.

Releases from underground storage tanks are also regulated by federal law. The Environmental Protection Agency (EPA) administers the federal law and has the authority to take enforcement actions against the parties who are not cooperating with the state.

Because a hazardous substance may have been released to the environment, you are responsible for conducting a remedial investigation to determine the extent of contamination and potential for groundwater impact. Remedial actions must be taken to clean up contaminated soils and groundwater, if applicable. An immediate concern is to identify any risks of explosive or toxic vapors and/or water well contamination.

The Department requests that within seven days of receiving this letter, you notify this office, in writing, with the name of the qualified environmental consultant which you have retained to conduct a remedial investigation on this property.

Violations of this section could result in forfeitures of not less than \$10 nor more than \$5,000 for each violation under s. 144.99, Wisconsin Statutes. Each day that you are not in compliance is considered a separate violation.

Any questions concerning this letter should be directed to Timothy Baker at (715) 284-1428 or myself at (715) 839-3752.

Sincerely,

Darrell Solberg

Danell Solberg

Enforcement Specialist

cc: E

Bill Evans - WD

Timothy Baker - BRF

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SW/3

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Facility/Company Name		Location (Address	or 16 (4)	City, State, Zip Code	
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## State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

910 Highway 54 East Black River Falls, WI 54615 TELEPHONE 715-284-1400 TELEFAX715-248-1737

Carroll D. Besadny Secretary

July 11, 1991

File Code: 4440

Robert & Connie Lueptow W448 CTH Z Mondovi, WI 54755

Dear Mr. and Mrs. Lueptow:

RE: Petroleum Contamination Cleanup At Lueptow Property, Mondovi, Buffalo County.

During a recent review of your file, I noted that no work has been done since 05/28/91, when you were going to check with Bill Morresy, and call me back. Please bring me up to date on the status of your cleanup project. I request a brief written description of the current project status by 08/16/91.

If work has been done since we spoke, please submit a report documenting all work.

If you feel you have completed the cleanup at this site, please submit a final report and request a review of your file. Please be aware that the Department of Natural Resources (the department) has a significant backlog of cases similar to yours. Your case will be reviewed as time permits.

If work has been temporarily discontinued or if you are planning further investigative work, please provide me with a written statement of the current status of your case.

Please be advised that under the Spills Law (Wisconsin Statute 144.76), you have a legal responsibility to clean up all contamination. Although the department cannot review your case at every stage in the project, you are still required to take the steps necessary to restore the environment to the extent practicable. Please ask your environmental consultant for guidance on meeting Wisconsin's cleanup standards.

If you feel that you are currently eligible for a PECFA payment, please apply to the Department of Industry, Labor and Human Relations. FORM 4 in the PECFA application packet should be sent to me for my review and signature. Please be advised that failure to address this problem in an appropriate and timely manner will jeopardize your eligibility for PECFA reimbursement.

In any case, please provide me with written notice of your case status by 08/16/91. You may contact me at (715)284-1428. Thank you for working to clean up Wisconsin's soils and groundwater.

Sincerely,

Timothy R. Baker Area Hydrogeologist

c: Dave Lundberg - WD
Bill Evans - WD

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Facility/Company Name	ı	Location (Address	or %%)	City, State, Zip Code	•
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Facility Type	District	County	Contact Method Telephone	Date . 5 128191	Time (24-Hour Clock)
Facility Representative			ion of Representative	MMDDYY	
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## State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Carroll D. Besadny Secretary

910 Highway 54 East Black River Falls, Wisconsin 54615-9204

May 15, 1991

File Ref: 4440

Robert and Connie Lueptow W448 CTH Z Mondovi, WI 54755

CERTIFIED MAIL RETURN RECEIPT REQUESTED

RE: Soil Contamination at the Lueptow Property, Mondovi, Buffalo County

Dear Mr. and Mrs. Lueptow:

The Department of Natural Resources has been notified by the Mondovi Fire Department that petroleum contamination was discovered during a tank removal at the above facility. The purpose of this letter is to inform you of your legal responsibilities to address this situation.

Wisconsin Statute 144.76(3) states: "A person who possesses or controls a hazardous substance which is discharged or who causes the discharge of a hazardous substance shall take the actions necessary to restore the environment to the extent practicable and minimize the harmful effects from the discharge to the air, lands, or waters of the state."

Releases from underground storage tanks are also regulated by federal law. The Environmental Protection Agency (EPA) administers the federal law and has authority to take enforcement actions against parties not cooperating with the state.

Because a hazardous substance has been released to the environment, you are responsible for conducting an investigation to determine the extent of contamination and potential for groundwater impact. Remedial actions must be taken to clean up contaminated soils and groundwater, if applicable. An immediate concern is the need to identify any risks of explosive or toxic vapors and/or water well contamination.

Generally, the sooner a release is discovered and responded to, the smaller the damaging impacts and the cost of remediation are. Please be sure that all products, soils, wastewater or sludges are disposed of or treated in an approved manner.

The department requests that within 15 days of receiving this letter that you notify this office in writing whether you have hired an experienced environmental consultant to conduct a remedial investigation to assess the environmental impact. Please provide the following information:

- 1) Verification that you have hired a consultant
- 2) The name of the consultant
- 3) The date that the remedial investigation is to begin

The department requires that you have a qualified environmental engineer or hydrogeologist direct the remedial investigation. Your consultant may contact this office to obtain our guidelines for conducting a remedial investigation. Enclosed is a list of environmental consultants and engineers qualified to perform the necessary work.

Two copies of the reports containing complete documentation of the investigation and clean up shall be sent to this office when completed. The department is experiencing a backlog of leaking underground storage tank cases of emergency status and your case will be reviewed as time permits. You are reminded, however, that you have a legal obligation to take the steps necessary to clean up the discharge in a timely manner.

You are encouraged to contact the Department of Industry, Labor, and Human Relations (DILHR), the state agency that administers the Petroleum Environmental Cleanup Fund (PECFA). This fund will reimburse you for eligible costs associated with the remedial investigation and cleanup. DILHR should be contacted at (608) 267-4545 to obtain current information regarding the PECFA program. A summary of the PECFA program is enclosed.

Your cooperation in this matter will be appreciated. Please be aware that your ability to use PECFA funds is dependent on your cooperation in adequately addressing this problem.

If you contest that a release of a hazardous substance has occurred, you are required by state and federal law to conduct a tank closure assessment that follows all DILHR requirements. The purpose of a Tank closure assessment is to determine if there has been a release to the environment.

If you have any questions regarding this letter, please feel free to contact me at (715) 284-1428.

Sincerely,

RB

Timothy R. Baker Area Hydrogeologist

Enclosures

c: Bill Evans - WD John Paddock - WD Terry Bauer - DILHR, 2715 Post Road, Stevens Point, WI 54481

> File

Facility/Company Name	Location (Address or	×4)	City, State, Zip Code	
Luepton Property	CTH # 6	-7 mi 5. st	Mondovi	
Facility Type District C	•	Contact Method  Telephone	Date 5 / 15 /90	Time (24-Hour Clock)
Ŭ	763 Talo	☐ In-Person	M M D D Y Y	1240
Facility Representative Contacted	Title or Position	d Representative	Telephone	Number いってに rea code)
Connie Lueptou	Part U	wer		1926-4962
I Called Mo Luept	ow to ac	certain it	they pull	od the
tanks She said	they did			
TI asked if she u	kes accere	that it a	xes illeged	to have.
the tanks pulled by	of non-cer	tified enti	+~	
- She dichoit		•		
→ I asked if she	wes auxer	e a fank	: closure a	ssessiment.
was reguired -	She was	not.		
I outlined her 2	options'.			
1) Hire a gualified		al consultan	t to dete	rmine the
extent & degree	,			
2) If she contest			, conduct e	teink
closure assessmen			· ·	
She indicated she w				
likely worddn't con	est if a	leak has	occured, >I	Said
I would send her a	letter ea	plaining &	their opt	irms
			1	
Check if additional sheets attached		By RB	·	

Facility/Company Name		Location (Address	e or ¼¼)	City, State, Zip Code	•
Luepton Pro	restr	CTH H.6-	7 mi South of	Mondovi	
Facility Type	District	County	Contact Method  Telephone	Date . 5   15   90	Time (24-Hour Clock)
LUST.	QW	Buffalo	☐ In-Person	MMDDYY	1230
Facility Representative C		Title or Posit	tion of Representative	Telephon (include	e Number area code)
Dennis Br	767	Mond	ovi t.D.		5,926-3185
I calle	d Dennis	to verify	and claurit	y Bill's repe	ist.
			notified the	•	
			inks and fo	,	•
			e this noti		9
	•		ed the pull		· ·
	^	info to		• .	
			Felt the Li	pertous did	nt believe
	, ,	_	authority \$	The state of the s	The second section of the section of th
that r	equires tha	m to have	Certified f	zeople do J	ne WOX.
	C		e feels the		N.
	, ~	The law n			-
	·····			•	
**************************************					
Check if additional sheets	s attached		By RB		

Facility/Company Name	Location (Address or	44)	City, State, Zip Code	
Luepton Property	CTH 6-7 mi	5 of	Mondovi.	wī
Facility Type District	County	Contact Method  Z. Telephone	Data 5 /15 /91	Time (24-Hour Clock)
LUST. WD	Buffelo	☐ Ia-Persoa	MMDDYY	
Facility Representative Contacted	_	of Representative	Telephone	
Bill Evans	DNE	2		)
				·
Bill received a pe	post from	Mondovi F.	D. rep. [	ennis
Brion that 2 tar	` /	<u> </u>		
owners from a to	rmer arme	ry store s	of Mondo	Vi.
The tanks had he			Pro-	
a long time. The	tanks ar	e on the	DILHR Res	istery
The property is		i		
The Luepton's home ph				
15 (715) 926-496			`	·
			,	
•				·
•				
Check if additional sheets attached		By RB	•	
_			······································	

Site Name: Lueptow Property	District: Western County: Buffalo
	Address: CTH H 6-7 miles South of
PMN: FID:	Mendovi
Proj Mgr: Tim Baker	Legal Municipality: Mondoy
Support Person:	
Support Person:	Legal Desc:1/41/4 Sec T R E/W
Date of Initial Contact: 5/15/91 Date of Letter: 5/1	5/91 Date Site Closure Approved://
Status  1 = State Lead  2 = RP Lead  Funding Source  1 = RP  2 = LTF	PECFA Review Requested (√) Yes No
Priority Screening 3 = EF 4 = SF	Date PECFA Request Received (mm/dd/yy)///
1 = High 5 = None 6 = Other (Describe l	In Comments) Lust Trust Eligible
3 = Low 7 = EPA (Emergency Unknown	
	Z = Non-reacial
Score: CASE	STATUS
(√) As Appropriate Date Initiated D	late Completed
No Action Taken (N) (mm/dd/yy)	(mm/dd/yy) Comments
Emergency (E) / / /	_11
Emergency Response (R) / / /	
Field Investigation (I) / / /	
Remedial Action (C) / /	
Long Term Monitoring (L) / /	_11
( $$ ) All Appropriate Known Impacts ( $$ ) Potential Impacts ( $$ )	) Substances (√) Leaded Gas(1) VOCS (6)
Fire/Explosion Threat (1) Contaminated Private Well (2) Contaminated Public Well (3) Groundwater Contamination (4) Soil Contamination (5) Other: (6)	Unleaded Gas (2) Pesticide (7) Diesel (3) Fuel Oil (4) Unknown Hydrocarbons (5) Other (8) Quantity Discharged
Responsible party	Consultant:
Name: Robert & Connie Luepton	Contact:
Address: W448 CTH Z	Address:
Mondavi, WI 54755	_
Telephone: 715 / 946 - 3550	Telephone:/
(list additional on separate list and attach.)	Amount Committed: \$
	Amount Spent: \$ (list additional on separate list and attach.)
ENFORCEMENT	ACTION TAKEN
01 = Inf. Contact, Resp Initiated 08 = Adequate Response	15 = Formal Enf Conf 22 = Draft Referral
02 = RP Letter, Resp Initiated09 = Progress Being Made03 = NTC of Non Compliance10 = Defer Enforcement04 = Inf. Enf. Conf, Resp Initiated11 = Close Out05 = Follow-up Enf. Conf, Resp Initated12 = Recommend NFA06 = Inspection Letter13 = FWD to Secondary Enf07 = Response Received14 = Notice of Violation	16 = Enf Conf. Letter 17 = Admin. Order Proposed 18 = Admin. Order Final 19 = Admin. Order Modified 20 = Admin. Order Cancelled 21 = Contest Case Hearing 22 = Dant Referral to DOJ 24 = Referral to DA 25 = Referral to EPA 26 = Continuing Violation 27 = See Next Violation 28 = Site Inspection
	MMENT
(code from above) (mm/dd/yy)	
03 05128 191 K	P Called
03 07111 191	equest response by 8-16-91
(list additional on separate list and attach.)	

Contaminated private or public well >NR140 enf. std.  Explosive or toxic vapors in structures Threat of fire  MEDIUM FACTORS: (write in choice of high or medium floating product (medium if no receptors within 1 mile) Known gw contamination (private or public well <140 enf. std.) Impacted surface waterwetland, trout stream, etc. impacted saturated soil contamination  MEDIUM FACTORS: (DEFINITION: Any case which does not appear to be an immediate threat to human health or vital natural resources but whe shows levels of contamination that may cause substantial environmental impacts if left unaddressed.)  Moderate (e.g. 100 - 500 ppm TPH) soil contamination with moderate potential for impacting groundwater.	ecceptors within 1 mile) te or public well <140 enf. std.) d, trout stream, etc. impacted
shows levels of contamination that may cause substantial environmental impacts if left unaddressed.)	or vital natural resources but which
Moderate (e.g. 100 - 500 ppm TPH) soil contamination with moderate potential for impacting groundwater.	
Impacted surface water no critical habitat threats.	
LOW FACTORS: DEFINITION: Any case where contamination has been documented, but which presents limited potential for any immediate thre human health and vital natural resources.)	potential for any immediate threat to
Soil contamination (e.g. less than 100 ppm TPH) which appears to have a limited potential for impacting groundwater Initial remedial action has substantially reduced environmental threat.	dwater.
UNKNOWN FACTOR: (DEFINITION: Any case where some indication of contamination is present, but due to incomplete or inaccurate information the level of threat to human health or the environment can not be assessed at this time.)	
Inadequate information to assign a high, medium, or low ranking.	omplete or inaccurate information
OVERALL RANKING: The screening rank for the site along with the date of ranking. This may be updated when additional information is received Special circumstances for a particular case may be taken into account in the comment section. The District LUST coordinator may independently set the ranking of a site based upon "special circumstances."	omplete or inaccurate information
Circle one & date, indicate in priority screening box opposite side HIGH MEDIUM LOW UNK	Iditional information is received.
Overall Site Comment:	Iditional information is received. rdinator may independently set
	Iditional information is received. rdinator may independently set
	Iditional information is received. rdinator may independently set
	Iditional information is received. rdinator may independently set
	Iditional information is received. rdinator may independently set
NUMERICAL LUST SCORING WORKSHEET (Complete for LUST cases ranked HIGH)	Iditional information is received. rdinator may independently setLOWUNKNOWN
NUMERICAL LUST SCORING WORKSHEET (Complete for LUST cases ranked HIGH)  1. GROUNDWATER & SOILS: (circle one)	Iditional information is received. rdinator may independently setLOWUNKNOWN
1. GROUNDWATER & SOILS: (circle one) POINTS POINTS	Iditional information is received. rdinator may independently set  LOWUNKNOWN
1. GROUNDWATER & SOILS: (circle one)  POINTS  20 Municipal Well 18 >5 private wells  POINTS  8 Soil & gw within 1200' of a public well 6 Soil & gw within 1200' of one or more private wells	Iditional information is received. rdinator may independently set LOWUNKNOWN  HIGH)  blic well or more private wells
1. GROUNDWATER & SOILS: (circle one)  POINTS  20 Municipal Well  POINTS  8 Soil & gw within 1200' of a public well	Iditional information is received. rdinator may independently set LOWUNKNOWN  HIGH)  blic well or more private wells
1. GROUNDWATER & SOILS: (circle one)  POINTS  20 Municipal Well 18 >5 private wells 16 4 - 6 private wells 4 GW contamination, no wells within 1200'	Iditional information is received. rdinator may independently set LOWUNKNOWN  HIGH)  blic well or more private wells
1. GROUNDWATER & SOILS: (circle one)  POINTS  20 Municipal Well  18 >5 private wells  16 4 - 6 private wells  17 2 private wells  18 2 points  20 GW contamination, no wells within 1200' of a public well  30 GW contamination, no wells within 1200'  4 GW contamination  5 Soil & gw within 1200' of a public well  6 Soil & gw within 1200' of one or more private wells  4 GW contamination  5 Soil contamination	Iditional information is received. rdinator may independently set LOWUNKNOWN  HIGH)  blic well or more private wells
1. GROUNDWATER & SOILS: (circle one)  POINTS  20 Municipal Well 18 >5 private wells 16 4 - 6 private wells 17 2 - 3 private wells 18 2 - 3 private wells 19 2 - 3 private wells 10 3 private wells 11 private well 12 1 private well 13 SCORE  *For purposes of this scoring, private well includes any non-municipal water supply system.	Iditional information is received. rdinator may independently set LOWUNKNOWN  HIGH)  blic well or more private wells
1. GROUNDWATER & SOILS: (circle one)  POINTS  20 Municipal Well 18 >5 private wells 16 4 - 6 private wells 17 2 - 3 private wells 18 2 - 3 private wells 19 2 - 3 private wells 10 1 private well 10 2 Soil & gw within 1200' of a public well 11 2 Soil & gw within 1200' of one or more private wells 12 2 Soil contamination, no wells within 1200'  The structure of this scoring, private well includes any non-municipal water supply system.  2. EXPLOSIVE OR TOXIC VAPORS: (circle one) POINTS CONFIRMED POTENTIAL	Iditional information is received. rdinator may independently set LOWUNKNOWN  HIGH)  blic well or more private wells
1. GROUNDWATER & SOILS: (circle one)  POINTS  20 Municipal Well  18 >5 private wells  16 4 - 6 private wells  17 2 - 3 private wells  18 2 - 3 private wells  19 3 Soil & gw within 1200' of a public well  20 Soil & gw within 1200' of one or more private wells  20 Soil & gw within 1200' of one or more private wells  21 private well  SCORE  *For purposes of this scoring, private well includes any non-municipal water supply system.  2. EXPLOSIVE OR TOXIC VAPORS: (circle one)  POINTS CONFIRMED POTENTIAL  20 Soil & gw within 1200' of a public well  Soil & gw within 1200' of one or more private wells  22 Soil contamination  23 Soil & gw within 1200' of a public well  4 GW contamination, no wells within 1200'  24 Soil contamination  25 Soil & gw within 1200' of one or more private wells  4 GW contamination  26 Soil & gw within 1200' of one or more private wells  27 Soil contamination  28 Explosive levels in a residence or building  8 Explosive levels in a residence or structure	Iditional information is received. rdinator may independently set LOWUNKNOWN  HIGH)  blic well or more private wells
1. GROUNDWATER & SOILS: (circle one)  POINTS  20 Municipal Well 18 >5 private wells 16 4 - 6 private wells 17 1 private wells 18	Iditional information is received. rdinator may independently set LOWUNKNOWN  IIGH)  blic well or more private wells thin 1200'
1. GROUNDWATER & SOILS: (circle one)  POINTS  20 Municipal Well 18 >5 private wells 16 4 - 6 private wells 17 2 - 3 private wells 18 2 - 3 private wells 19 2 - 3 private wells 10 2 - 7 private well 10 SCORE  *For purposes of this scoring, private well includes any non-municipal water supply system.  2. EXPLOSIVE OR TOXIC VAPORS: (circle one)  POINTS CONFIRMED POTENTIAL  20 10 Explosive levels in a residence or building 8 Explosive levels in a sewer or structure	Iditional information is received. rdinator may independently set LOWUNKNOWN  IIGH)  blic well or more private wells thin 1200'
1. GROUNDWATER & SOILS: (circle one)  POINTS  20 Municipal Well 18 >5 private wells 16 4 - 6 private wells 17 2 - 3 private wells 18 2 - 3 private wells 19 2 - 3 private wells 10 2 - 3 private wells 10 3 - 5 private wells 10 4 - 6 private wells 11 2 private well 12 private well  SCORE  *For purposes of this scoring, private well includes any non-municipal water supply system.  2. EXPLOSIVE OR TOXIC VAPORS: (circle one)  POINTS CONFIRMED POTENTIAL  20 10 Explosive levels in a residence or building 8 Explosive levels in a sewer or structure 12 6 Toxic levels in a residence or building NOTE: Explosive levels determined to be >20% LEL as per an explosivity meter; toxicity levels are based on OSHA permissible exposure limits (PEL)  3. HYDROGEOLOGIC SETTING: (circle one)	Iditional information is received. rdinator may independently set LOWUNKNOWN  IIGH)  blic well or more private wells thin 1200'
1. GROUNDWATER & SOILS: (circle one)  POINTS  20 Municipal Well 18 >5 private wells 16 4 -6 private wells 16 2 -3 private wells 17 private wells 18	Iditional information is received. rdinator may independently set  LOWUNKNOWN  HIGH)  blic well or more private wells thin 1200'
1. GROUNDWATER & SOILS: (circle one)  POINTS  20 Municipal Well 8 Soil & gw within 1200' of a public well 18 >5 private wells 6 Soil & gw within 1200' of one or more private wells 16 4 - 6 private wells 12 - 3 private wells 2 Soil contamination, no wells within 1200' 14 2 - 3 private wells 2 Soil contamination 15 SCORE  *For purposes of this scoring, private well includes any non-municipal water supply system.  2. EXPLOSIVE OR TOXIC VAPORS: (circle one) POINTS CONFIRMED POTENTIAL 20 10 Explosive levels in a residence or building 8 Explosive levels in a sewer or structure 12 6 Toxic levels in a residence or building NOTE: Explosive levels determined to be >20% LEL as per an explosivity meter; toxicity levels are based on OSHA permissible exposure limits (PEL)  3. HYDROGEOLOGIC SETTING: (circle one) POINTS 12 Permeable stratigraphy (gravel, sand, fractured bedrock or utilities capable of intercepting and directing flow) and groundwater within 25 function of the ground surface. 16 Permeable stratigraphy and groundwater greater than 25 feet below ground surface.	Iditional information is received. Iditional information is received. Iditional information is received. IDWUNKNOWN  IIGH)  Blic well  or more private wells thin 1200'  meter; toxicity levels are based  ow) and groundwater within 25 feet of
1. GROUNDWATER & SOILS: (circle one)  POINTS  20 Municipal Well  18 >5 private wells  16 Soil & gw within 1200' of a public well  18 >5 private wells  16 4 - 6 private wells  12 2 soil contamination, no wells within 1200'  14 2 - 3 private wells  15 1 private well  2 Soil contamination  2 Soil contamination  2 Soil contamination  2 Soil contamination  2 Soil contamination  2 Soil contamination  3 EXPLOSIVE OR TOXIC VAPORS: (circle one)  POINTS CONFIRMED POTENTIAL  20 10 Explosive levels in a residence or building  8 Explosive levels in a sewer or structure  12 6 Toxic levels in a residence or building  NOTE: Explosive levels determined to be >20% LEL as per an explosivity meter; toxicity levels are based on OSHA permissible exposure limits (PEL)  3. HYDROGEOLOGIC SETTING: (circle one)  POINTS  Permeable stratigraphy (gravel, sand, fractured bedrock or utilities capable of intercepting and directing flow) and groundwater within 25 feet below ground surface.  10 Permeable stratigraphy (silty sands, silty gravel, clayey sands) and groundwater within 25 feet of ground surface .  8 Moderately permeable stratigraphy (silty sands, silty gravel, clayey sands) and groundwater within 25 feet of ground surface .	Iditional information is received. Iditional information is received. Iditional information is received. IDWUNKNOWN  IIGH)  Blic well  or more private wells thin 1200'  meter; toxicity levels are based  ow) and groundwater within 25 feet of
1. GROUNDWATER & SOILS: (circle one)  POINTS  20 Municipal Well 8 Soil & gw within 1200' of a public well  18 >5 private wells 6 Soil & gw within 1200' of one or more private wells  16 4 - 6 private wells 4 GW contamination, no wells within 1200'  12 1 private wells 2 Soil contamination  SCORE  *For purposes of this scoring, private well includes any non-municipal water supply system.  2. EXPLOSIVE OR TOXIC VAPORS: (circle one)  POINTS CONFIRMED POTENTIAL  20 10 Explosive levels in a residence or building  8 Explosive levels in a sewer or structure  12 6 Toxic levels in a residence or building  NOTE: Explosive levels determined to be >20% LEL as per an explosivity meter; toxicity levels are based on OSHA permissible exposure limits (PEL)  3. HYDROGEOLOGIC SETTING: (circle one)  POINTS  12 Permeable stratigraphy (gravel, sand, fractured bedrock or utilities capable of intercepting and directing flow) and groundwater within 25 feet below ground surface.  16 Moderately permeable stratigraphy (silty sands, silty gravel, clayey sands) and groundwater within 25 feet of ground surface.  4 Impermeable stratigraphy (silt, layey silt, sand clays) and groundwater within 25 feet of ground surface.  4 Impermeable stratigraphy (silt, layey silt, sand clays) and groundwater within 25 feet of ground surface.	Iditional information is received. Iditional information is received. Iditional information is received. IDWUNKNOWN  IIGH)  Blic well  or more private wells thin 1200'  meter; toxicity levels are based  ow) and groundwater within 25 feet of
1. GROUNDWATER & SOILS: (circle one)  POINTS  20 Municipal Well 18 >5 private wells 16 4 -6 private wells 16 4 -6 private wells 17 2 -3 private wells 18 2 private wells 19 2 Soil & gw within 1200' of a public well 19 2 Soil contamination, no wells within 1200' 10 EXPLOSIVE OR TOXIC VAPORS: (circle one) POINTS CONFIRMED POTENTIAL  20 10 Explosive levels in a residence or building 8 Explosive levels in a residence or building 8 Explosive levels in a residence or building 10 NOTE: Explosive levels in a residence or building 11 SCORE 12 Toxic levels in a residence or building 13 NOTE: Explosive levels determined to be >20% LEL as per an explosivity meter; toxicity levels are based on OSHA permissible exposure limits (PEL)  13 HYDROGEOLOGIC SETTING; (circle one) POINTS 10 Permeable stratigraphy (gravel, sand, fractured bedrock or utilities capable of intercepting and directing flow) and groundwater within 25 fet below ground surface. 18 Moderately permeable stratigraphy and groundwater greater than 25 feet below ground surface. 19 Moderately permeable stratigraphy and groundwater greater than 25 feet below ground surface. 20 Moderately permeable stratigraphy and groundwater greater than 25 feet below ground surface. 3 Moderately permeable stratigraphy and groundwater greater than 25 feet below ground surface. 4 Moderately permeable stratigraphy and groundwater greater than 25 feet below ground surface. 4 Moderately permeable stratigraphy and groundwater greater than 25 feet below ground surface.	Iditional information is received. Iditional information is received. Iditional information is received. IDWUNKNOWN  IIGH)  Blic well  or more private wells thin 1200'  meter; toxicity levels are based  ow) and groundwater within 25 feet of
1. GROUNDWATER & SOILS: (circle one)  POINTS 20 Municipal Well 18 > 5 private wells 16 4 - 6 private wells 16 2 - 3 private wells 17 2 1 private wells 18 2 2 Soil & gw within 1200' of one or more private wells 19 2 1 private well 10 2 1 private well 10 2 2 Soil contamination, no wells within 1200' 10 Explosive levels in a residence or building 11 2 1 private well 12	Iditional information is received. Iditional information is received. Iditional information is received. IDWUNKNOWN  IIGH)  Blic well  or more private wells thin 1200'  meter; toxicity levels are based  ow) and groundwater within 25 feet of
1. GROUNDWATER & SOILS: (circle one)  POINTS 20 Municipal Well 8 Soil & gw within 1200' of a public well 18 > 5 private wells 6 Soil & gw within 1200' of one or more private wells 16 4 - 6 private wells 4 GW contamination, no wells within 1200' 17 private well 5 SCORE  *For purposes of this scoring, private well includes any non-municipal water supply system.  2. EXPLOSIVE OR TOXIC VAPORS: (circle one) POINTS CONFIRMED POTENTIAL 20 10 Explosive levels in a residence or building 8 Explosive levels in a sewer or structure 12 6 Toxic levels in a residence or building NOTE: Explosive levels determined to be >20% LEL as per an explosivity meter; toxicity levels are based on OSHA permissible exposure limits (PEL)  3. HYDROGEOLOGIC SETTING: (circle one) POINTS 12 Permeable stratigraphy (gravel, sand, fractured bedrock or utilities capable of intercepting and directing flow) and groundwater within 25 fet be ground surface. 10 Permeable stratigraphy and groundwater greater than 25 feet below ground surface. 11 Moderately permeable stratigraphy (silt, sands, silty gravel, clayey sands) and groundwater within 25 feet of ground surface. 12 Impermeable stratigraphy (silt, clayey silt, sand clays) and groundwater within 25 feet of ground surface. 2 Impermeable stratigraphy and groundwater greater than 25 feet below ground surface. 3 SCORE  1 Impermeable stratigraphy and groundwater greater than 25 feet below ground surface. 4 Impermeable stratigraphy and groundwater greater than 25 feet below ground surface.  1 SCORE	Iditional information is received. Iditional information is received. Iditional information is received. IDWUNKNOWN  IIGH)  Blic well  or more private wells thin 1200'  meter; toxicity levels are based  ow) and groundwater within 25 feet of