Site Investigation Field Procedures Workplan

Sandy's Service (Former) 16571 State Highway 35 Dairyland, Wisconsin

July 13, 2017 by METCO WDNR File Reference #: 03-16-286908 PECFA Claim #: 54830-9999-71



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July 13, 2017

WDNR BRRTS#: 03-16-286908 PECFA Claim #: 54830-9999-71

Ray Sandstrom 31125 Gable Avenue Stacy, MN 55079

Dear Mr. Sandstrom,

Enclosed is our "Site Investigation Field Procedures Workplan" concerning the Sandy's Service (Former) site in Dairyland, 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,

Ten T. Powell

Jason T. Powell Staff Scientist

C: Ralph Smith – WDNR

Site Investigation Field Procedures Workplan - METCO Sandy's Service (Former)

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OBJECTIVES

Requirements of the WDNR

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 over 10 ppm Gasoline Range Organics (GRO) or Diesel Range Organics (DRO) requires an investigation. Any soil that tests over the Chapter NR720 Groundwater RCLs, Direct Contact RCLs, or Soil Saturation Values an investigation and possible 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 Site Investigation shall be no more than \$20,000 unless pre-approved by PECFA. All consultant and commodity service costs must not exceed the PECFA Usual and Customary Charges.

Purpose of Document

This document briefly outlines all methods and procedures used by METCO personnel concerning "Site 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.

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

Site Investigation Field Procedures Workplan - METCO Sandy's Service (Former)

INTRODUCTION

Site Name

Sandy's Service (Former)

Site Address

16571 State Highway 35 Dairyland, Wisconsin

Legal Description

SW ¼, NW ¼, Section 34, Township 43 North, Range 15 West, Douglas County

Contact or Client

Ray Sandstrom 31125 Gable Avenue Stacy, MN 55079 (612) 801-9747

WDNR Project Manager

Ralph Smith 101 S Webster Street Madison, WI 53707 (608) 261-6543

Consultant

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

SITE BACKGROUND

Facility

A service station operated on the property from approximately 1974 until 1991. Prior to this the property was vacant. Currently the former service station is vacant and a seasonal residence has since been built on the property.

On November 21, 2001, Environmental Troubleshooters, Inc. oversaw the removal of four underground storage tanks (USTs). The tank systems consisted of one 1,000-gallon unleaded gasoline UST, one 560-gallon unleaded gasoline UST, and two 560-gallon diesel USTs. During the UST removal, two soil samples were collected from beneath the removed USTs for laboratory analysis (DRO, GRO, PVOC, and Naphthalene). Both soil samples showed elevated levels of petroleum contamination. The petroleum contamination was subsequently reported to the WDNR, who then required that a site investigation be conducted.

The nearest known LUST site is the Kinblom IGA site (BRRTS# 03-16-000611), which is located approximately 950 feet to the south of the subject property. Due to the significant distance, it is unlikely that this site is impacting or being impacted by the subject property.

Potential Risks and Impacts

The subject property and surrounding properties are all served by private water supply wells. The water supply well for the subject property is located on the west side of the former service station building, approximately 60 feet to the northwest of the former pump island.

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, Dairyland is located in the northern portion of the St. Croix River Basin. This area is characterized by a relatively flat glacial outwash plain and numerous swamps and kettle lakes.

The elevation of the site is approximately 1,065 feet above Mean Sea Level (MSL). See Appendix A for site location.

Geology

Native unconsolidated materials in this area generally consist of unstratified clay, silt, sand, gravel, and boulders. The unconsolidated materials are underlain by Pre-Cambrian basalt at approximately 50 feet below ground surface.

Hydrology

The nearest surface water is unnamed creek, which exists approximately 425 feet to the south/southwest of the subject property.

Hydrogeology

Based on the local topography, groundwater is expected to exist at approximately 5 to 10 feet below ground surface. Local groundwater flow is expected to be toward the west to southwest.

SCOPE OF WORK

Site 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 1-2 day Geoprobe Project. We propose 20 to 25 borings to 10-15 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:

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- 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.

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 5 to 8 boreholes to be completed on/off site. METCO has also proposed 4 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 for review and discussion.

METCO PROCEDURES AND METHODS

Geoprobe

The Geoprobe consists of a truck 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, $\frac{1}{2}$ 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 Geoprobe holes are properly abandoned to ground level using bentonite clay and a surface seal.

Drilling

Drilling is conducted with a truck mounted auger 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 in accordance with ASTM D-1586 "Penetration Tests and Split-Barrel Sampling of Soils" using a 2-inch outside diameter (O.D.), 2.5 foot split spoon sampler. Using this procedure, a split spoon sampler is driven into the soil by a 140-pound weight falling 30-inches, and a soil sample collected.

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

PID 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 PID probe is inserted into the plastic bag halfway between the sample and the highest meter response recorded. The samples are screened with a Rae Systems, Mini Rae Lite Meter equipped with a 10.6 eV lamp. Metered calibration is done at the beginning of each workday. Other notes 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, twoinch 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.

Depending on site conditions and groundwater sampling results, slug tests may be conducted on two or three 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.

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 Site Investigation, along with an estimated time frame. A typical Site 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 Site 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 Site Investigation Field Procedures Workplan to client and WDNR for review and approval (7/13/17).
- 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 month to receive lab results).
- 10) METCO completes any additional work that is needed, such as slug tests (1 month).
- 11) METCO prepares a Site 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. 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.

Site Investigation Field Procedures Workplan - METCO Sandy's Service (Former)

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APPENDIX A/SITE MAPS

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TOPO! map printed on 07/12/17 from "Wisconsin.tpo" and "Untitled.tpg" 92°15.000' W WGS84 92°14.000' W





CTLORED COMPAREMENTS CONTRACTOR C

KEY TO REMOVED USTS

I - 560-GALLON DIESEL 2 - 560-GALLON DIESEL 3 - 560-GALLON GASOLINE 4 - 1000-GALLON GASOLINE

SCALE: I INCH - 40 FEET

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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 DWR. 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):

- INTRODUCTION/COVER LETTER 1.
- Project title 1.
- 2. Purpose of report and desired department action
- Client(s) 3.
- 4. Author(s), with signatures
- 5. Scope of Services
- 6. Dates the work was performed
- 7. Date of report
 - 8. Subcontractors employed by the consultant
- 11. GENERAL and BACKGROUND INFORMATION
- 1. General Information

۸. Identify the owner/operator and/or person(s) responsible: (include all applicable)

- 1. name
- 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
- B. Specify the site of contamination:
- 1. name
- 2. phone number
- 3. specific location (street corner, miles from an intersection, etc)
 - legal address (street address if applicable, do not supply just a P.O. Box #) а.
 - location of impacted properties by latitude and longitude, to an accuracy of ь. seconds, at a minimum (preferred method) or State Plane coordinate system
 - location of impacted properties by quarter, quarter, section, township, range, c. civil township, county, or other locational criteria if site(s) are not within the Public Land Survey system

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- 4. type of operation: gas station, tank farm, private residence, manufacturer, etc.
- C. Site Location 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:
 - bar scale а.
 - ь. North arrow
- legend c.
 - location of benchmark used d.
 - origin of horizontal grid system e.

3. Including Site Specific Features: more than one map may be appropriate, use the local map for the base map (These maps may be used for several purposes.) location of discharge on site or facility, for example, the location of (former) а. tank and pump islands and piping ь. location of all buildings on site locations of public utilities, appropriately marked c. d. property boundaries location of all soil borings and wells (monitoring wells and potable wells) e. f. location of soil vapor points locations of where field screenings and lab confirmation samples were taken g. nearby/neighboring structures and private wells (within 1200 feet) h. i. any nearby surface waters (within map scale) j. roads and paved areas, and other access areas k. known and potential sources of contamination known and potential receptors ι. **m**. limits of excavation 2. Site Background ۸. General Site Information site description, including features like: 1. 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. general site construction history 3. any past reports of spills, or other incidents 4. periods of nonoperation 5. proximity of sensitive sites such as schools, homes, private or public wells, etc. в. ____ Description of Discharge Incident type of hazardous substances discharged, known or suspected (released, spilled, lost, etc.) 1. approximate amounts discharged 2. 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 existing impacts to human health, safety, welfare and the environment 1. 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 Activities, Monitoring and Testing 1. dates of site activities, duration and type and potential amounts of discharges description of emergency actions taken and of interim actions taken, including dates 2. record of activities conducted at the site which had potential to cause contamination 3. 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 - atmospheric monitoring 6. records of testing, repair, removal or replacement, including dates 7. tank/container/line integrity testing method testing firm dates results Ε. Hazardous Waste Generation hazardous waste manifest 1. 2. was hazardous waste ever generated or stored on site?

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- Description of Tank/Container and Soil Removal Activities F.
- description of soil conditions in the area of the tank/container excavation or in area of 1. discharge
- volume of (contaminated) soils removed from the excavation 2.
- 3. location of stockpiled contaminated soils
- 4. type of impermeable base for stockpiled soils
- 5. type of impermeable cover for stockpiled soils
- if excavation was backfilled, what was used as fill? 6.
- final deposition of soil excavated, where and how were they used? (daily cover, backfill 7. on/off site, roasted, buried, etc.)
- 8. condition of tanks, lines, pumps (corrosion, visible leaks, etc?)
- product (other than petroleum) or waste delivery or storage systems 9.
- G. Land Use Information
- current and past land uses of site end neighboring properties 1.
- 2. description of zoning of property and adjacent properties
- 3. Environmental Analysis
- Ά. Site Historical Significance
 - impacts or potential impacts to significant historical or archeological features due to any 1. response activities or the discharge itself
- presence of buildings greater than 50 years old on or next to discharge site 2.
- Β. Presence 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

Geology (use maps as appropriate)

1. geologic origin, nature and distribution of bedrock

geologic origin, nature and distribution of overlying soils 2.

- 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
 - other 9.
 - topography
 - 10. site hydrology, including
 - intermittent and ephemeral streams,
 - drain tile systems,
 - surface waters
 - wetlands
 - location of floodway and floodplain (this may be best located on a site map)
- D. Hydrogeology
 - 1. depth to water table
 - 2. flow directions, seasonal variations

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		3.	horizontal and vertical gradients
		4	hydraulic characteristics: (define as field test results or non-field estimates)
	<u> </u>		hydraulic conductivity variation
			nyaradite condectivity, variation
			transmissivity
			storativity
		5.	aquifer definition:
			cita
	·		2120
			use .
			presence of aquitards
	<u> </u>	6.	local and regional recharge or discharge area(s)
		7	
	<u> </u>	<i>.</i>	
		8.	location, seasonal variation of groundwater divides
		9.	location and extent of perched groundwater
		10.	local and regional groundwater quality
		11	hydraulic connection between aguifers
		17	
		12.	saturated thickness of aquiter
		13.	estimates of flow volume passing below the discharge site/facility (include calculations in
			the appendices)
		14	drilling long which indicated any abnormal drilling difficulties
		15	
	<u> </u>	15.	isoconcentration maps
		16.	other
•.	111-	RESULTS	
	1.	Contami	nant Migration Pathway and Receptor Assessment
		Potenti	al Variant and Readurt Mignation Pathways (include depth of hypial and construction material)
	^ .	Potenti	at vapor and product Higharton Pathways (metude depth of burnat and construction material)
	—	1.	sewer lines
		2.	storm sewers
		3.	buried power cables
		4	
	<u> </u>	5.	tile lines
		6.	more permeable soil lenses
		7.	water lines
		R	road beds
		0	
		7.	roundations
		10.	other
	R.	Potenti	al Receptors of Contamination (description of impacts or potential impacts if apolicable)
	5.	1	building of site
	<u> </u>		
	<u> </u>	2.	neighdoring basements/buildings
		3.	nearby wells (locations must be provided on a map)
		4.	nearby surface waters, including wetlands
		5	critical habitate
		<i>.</i> .	
		<u>.</u>	engangereg species
		7.	Outstanding resource Waters
		8.	exceptional resource Waters
		9	sensitive or unique ecosystems
		10	
		10.	other
	С.	Potenti	al Health Impacts
	•	1.	danger of explosion
		2	
		<u> </u>	
		3.	contaminated public water supply wells
		4.	exposure to vapors
		5.	dermal exposure
		4	other
		υ.	
	.2.	Samplin	g and Analysis Results (figures and tables should be used, but general trends and the overall
		evaluat	ion should be in narrative form) Provide units of measurement for all results. Describe or
		provide	the following information for each media impacted:
		F. 311.90	
	Ä.	soil ch	emistry 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 ancountered (staining edge etc.)
		5.	any instruction of containing ton of softs encountered (stanning, Odor, Etc.)
	Β.	groundw	ater sample results, per parameter, per welt, over time
		1.	laboratory results
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3. compliance evaluation with NR 140 groundwater standards, if applicable soil vapor results (define type of survey used) с. by parameter 1. per location 2. D. sampling results from other media impacted by the discharge parameters 1. 2. locations 3. Sampling Methods Used (for each media impacted, lists provided for soil and groundwater only) ۸. 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 Β. Groundwater 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 boreholes Α. monitoring wells ь. c. excavations 7. survey methods 8. semple container size 9. sample description - turbid - clear - sheen - free product 10. other C. Vapors/Ambient Air 1. description of sample collection method 2. field screening, if conducted 3. sample container 4. Quality Control and Quality Assurance ۸. General QA/QC (for all media impacted) name and address of laboratory 1. 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) instrument make, model and lamp energy 1. 2. limitations of field screening instruments - temperature changes - humidity changes - other 3. any repairs to the instrument 4. field instrument calibration measures conducted time and frequency or schedule of field instrument calibration 5. composition of the calibration gas used (calibration product ?) 6. 7. calibration curves used

correction factor if one was used

- results of any calibration checks 9.
- time of day and ambient temperature when calibrations, calibration curves or calibration 10. 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 Sampling and Transportation Quality Control and Assurance (for all media impacted)
 - 1. sample type
 - sample location and associated field and laboratory identification 2.
- 3. sampling technique used
- 4. sampling techniques used to minimize exposure of samples to the atmosphere
- 5. date and time of sampling
 - field preservation performed 6.
 - 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. Laboratory Receipt and Analysis (for all media impacted)

- chain of custody forms (4400-151) 1.
- 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
 - results or percent recovery of matrix spikes with every batch of samples not to exceed 9. eight hours
- 5. Investigative Wastes (for all media impacted, to include but which is not limited to contaminated water from excavations, borings, purge water, rinse waters from decontamination procedures, extra sample)
- A: analytical results (hazardous determination, if listed?)
- 8. ultimate disposal
- c. other
- IV. SUMMARY AND EVALUATION OF RESULTS (Analysis of Degree and Extent of Contamination)
 - degree and extent of soil contamination 1.
 - 2. degree and extent of groundwater contamination
 - 3. degree and extent of contamination of other media impacted
- known or potential impacts to receptors, such as water supply wells 4.
- 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
- v. CONCLUSIONS
 - source and type of release defined
 - soil and groundwater contamination adequately defined?
 - further study needed
 - further remediation needed
 - known or potential impacts from the release defined?
 - clean site, ready for case closure
- other
- VI. RECOMMENDATIONS
- 1. Investigation Incomplete
- continued monitoring
- additional investigation
- 2. Remedial Action Alternatives (provide description of alternatives) e.g.: remediation method (to be) used for contaminated soil

 soil removal, treatment and disposal soil venting
 product recovery
 groundwater extraction and treatment
 insitu biological treatment
 other actions (define)
 Other
 Work plans for further action
 construction proposals for further action
 pilot study, other treatability studies
 schedules for further actions
 required 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 - 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 geologic setting ۵. boring location ь. soil classification c. d. analytical sampling monitoring well locations e. f. water table extent of contaminant plume g. concentrations at referenced date and point h. sampling intervals (for soil and groundwater) i. of excavation walls showing location of field screening and/or analytical results, j. as appropriate 7. Photographs (NO black and white photocopies) VIII. TABLES 1. Groundwater Chemistry Results 2. Soil Chemistry Results 3. Analytical Methods Used Standards for Comparison and Compliance Determinations (Tables with compliance standards 4. should be combined with analytical results for comparison) 5. Geologic and Hydrogeologic Results 6. Groundwater Elevations 7. Screening Results 8. Other IX. APPENDICES (up to the author) 1.

- Table giving data for compounds found, such as: Chemical formula, Molecular weight, Ionic potential, Solubility, Vapor pressure, Henry's Law Constant, Kow References used to support methods or provide standards methods, including previous reports 2. 3. All raw data 4. All documentation on forms: (DNR form number) soil boring logs (4400-122) а. ь. monitoring well construction logs (4400-113A) soil boring/well abandonment forms (3300-58) c. d, chain of custody forms e. lab/chemistry results f. groundwater monitoring well information form (4400-89)
 - g. monitoring well development form (4400-113B)
 - g. monitoring well development form (4400-113)
 - Variances (for well construction, hazardous waste storage requirements, etc.)

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

Other information that may be needed includes:

+ access

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- public information plan

- health and safety plan

Site Investigation Field Procedures Workplan - METCO Sandy's Service (Former)

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APPENDIX C/LUST SAMPLING GUIDELINES

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Environmental Consulting, Fuel System Design, Installation and Service Page 13

LUST and Petroleum Analytical and QA Guidence July 1993 Revision

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

Abbreviations:

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

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

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

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

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

PCBs - Polychlorinated Biphenyls

Pb - Lead

SYNERGY ENVIRONMENTAL LAB – Sample Bottle Requirements

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

Test	Original Sample Container	Preserved	Holding Time to Analysis
WET CHEMISTRY	الا المحمول التي المركز التي المالي المحمد المحمد. مركز 1994 من المحمول المحمد المحمد المركز المحمد الم	n en	n in the policy at the second seco
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
Cvanide SW846 9012A/SM4500-CN-C	1000 mL HDPE	4°C, pH>12 with NaOH	14 days
Flashpoint SW846 1010	250 mL HDPE	4°C	28 days
Fluoride EPA 300.0	250 ml HDPE	4°C	28 days
Hardness SW846 6010B	250 mL HDPE	4°C. pH<2 with HNO ₃	180 days
TKN FPA 351 2	1 Liter HDPF	4°C. pH<2 with H ₂ SO ₄	28 days
Nitrate EPA 300.0	250 mL HDPE	4°C	48 hours
Nitrate+Nitrite EPA 300.0	250 mL HDPE	4°C pH<2 with H ₂ SO	28 days
Nitrite EPA 300.0	250 mL HDPE	4°C	48 hours
Oil & Grease EPA 1664	1 Liter Glass	4°C pH<2 with H ₂ SO	28 days
Organic Carbon SW846 9060/	40 ml Glass	4°C pH<2 with H ₂ SO ₄ or HCl	28 days
EPA 415.1 Phenol Total EPA 420.1	1 Liter Glass	4° C. pH<2 with H ₂ SO ₄	28 days
			20 days
Phosphorus, Total EPA 305.3		4 C, ph<2 with h ₂ 304	20 days
Total Dissolved Calida EDA 160.1			Zo uays
Total Dissolved Solids EPA 160, 1		40	7 days
Fotal Solids EPA 160.3			7 days
1 Total Suspended Solids EPA 100.2		f	j 7 days
IMETALS			et la sector de la contra 1 - Comontho
			i zo uays
URGANICS		renta basi bu angertin 2005 da sa kitaninga pana da bispi.	ether de trème l'am i
Cominalatilas CM/046 0270C	1 Liter amber glass,	480	7 days extr.
	collect 2 for one of the	4 0	40 days following extr
1	1 Liter ember alege		1
	I Liter arriber glass,	4°C	7 days extr.
FAN 30040 6270C	samples submitted	40	40 days following extr
)	1 Liter amber glass,		
PCB SW846 8082	collect 2 for one of the	4°C	40 days following extr
	samples submitted.		40 days lonowing exti
DRO, Modified DNR Sep 95	1 Liter amber glass with Teflon lined can	4°C, 5 mL 50% HCi	7 days extr. 40 days following extr
VOC'S	(3) 40 mL glass vials with	4°C 0.5 mL 50% HCI	
SW846 8260B/EPA524 2	Teflon lined septum caps	No Headspace	14 days
	(4) 40 m glass vials with	4°C 0.5 mL 50% HCl prior to adding	, I
GRO/VOC	Teflon lined septum caps	sample to jar	14 days
	(2) 40 mL class vials with	4°C, 0.5 mL 50% HCl prior to adding	
GRO, Modified DNR Sep 95	Teflon lined septum caps	sample to jar	14 days
	(2) 40 mL glass vials with	4°C, 0.5 mL 50% HCI prior to adding	44.4
GRU/PVOC	Teflon lined septum caps	sample to jar	14 days
	(2) 40 mL glass vials with I	4°C, 0.5 mL 50% HCI prior to adding	11 4
	Teflon lined septum caps	sample to jar	14 days
A 10 1 /			

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

SYNERGY ENVIRONMENTAL LAB – Sample Bottle Requirements

	Original		Holding Times from Date and Time of Collection					
Test	Sample Container	Preserved	Solvent Addition	Shipping	Extraction	Analysis		
METALS	<u>o o nainei</u>							
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	I 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		

TABLE 2 SAMPLE & PRESERVATION REQUIREMENTS FOR SOIL SAMPLES

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

Site Investigation Field Procedures Workplan - METCO Sandy's Service (Former)

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APPENDIX D/WDNR DOCUMENTS

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RCL Quick Reference Table

March 2017

Contaminant.	Not To- Exceed D-C RCL (mg/kg)	Not-Te- Exceed D-C RCL (rng/kg)	RCL-gw (mg/kg) DF=2
	Non - Industrial	Industrial	ana ang sang sang sang sang sang sang sa
Bénzene	1.6×	7.07	0.0051
Ethylbenzene	, 8.02	, 35.4	, 1.57
Toluene	,818.	,818.	, 1.1072
Xylenes	,260.	,260.	, 3.96
Methyl tert-Butyl Ether (MTBE)	, 63.8	,282.	, 0.027
Dichloroethane, 1,2- (DCA)	, 0.652	, 2.87	, 0.0028
Dibromoethane, 1,2-	, 0.05	, 0.221	2.82E-05
altrichtererinviener(neE)//e/	0.000003444	2858-81410-84	0.003614
Terrachionoethyleide (HiCib)			0.004 5%
Win UCHighidel (XC) A whe	125600676	2008	
Dichloroethylenic strict (DOE)	10 00200000	10101910191	010.05
Dichloroethylene, 1,2-trans-	1,560.	1,850.	, 0.0626
Dichloroethylene, 1,2-cis-	,156.	2,340.	, 0.0412
Trichloroethane, 1,1,1-	,640.	,640.	, 0:1402
Carbon Tetrachloride	, 0.916	, 4.03	, 0.0039
Pentachlorophenol (PCP)	, 1.02	, 3. 9 7	, 0.0028
Trimethylbenzene, 1,2,4-	,219.	,219.	1.382
Trimethylbenzene, 1,3,5-	,182.	,182.	, 11002
Naphibalene: 2	6.05 6 524	a <u>1</u> 24 (4	10.6582
Benzola overlet et al	QUELS	2414	1 50 2 0 47
Acenaphthene	3,590.	45,200.	
Anthracene	17,900.	100,000.	,196.9492
Benz[a]anthracene	, 1.14	, 20.8	

Contaminant	Not-Tro Exceed D-C RCL (mg/kg)	Not-To- Exceed D-C RGLs ((mg/kg)	RCL-gw (mg/kg) DF=2	Background Threshold Value (BTV) (mg/kg)
	Non - Industrial	Industrial		
Benzo(j)fluoranthene	, 0.424	, 1.76		
Benzo[b]fluoranthene	, 1.15	, 21.1	, 0.4793	
Benzo[k]fluoranthene	, 11.5	,211.		
Chrysene	,115.	2,110.	, 0.1446	
Dibenz[a,h]anthracene	, 0.115	, 2.11		
Dibenzo(a,e)pyrene	, 0.042	, 0.176		
Dimethylbenz(a)anthracene, 7,12-	4.59E-04	, 0.008		
Fluoranthene	2,390.	30,100.	, 88.8778	
Fluorene	2,390.	30,100.	, 14.8299	
indeno[1,2,3-cd]pyrene	, 1.15	, 21.1		
Methylnaphthalene, 1-	, 17.6	, 72.7		
Methylnaphthalene, 2-	,239.	3,010.		
Nitropyrene, 4-	, 0.424	, 1.76		L
Pyrene	1,790.	22,600.	, 54.5455	1
M.M. MArsenic, Inorganic, Marsenic, Indiganic, Marsenic, Indiganic, Marsenic, Indiganic, Marsenic, Marse	\$0,00,67,74		0.534	
Barium	15,300.	100,000.	,164.8	364
Beryllium and compounds	,156.	2,300.	, 6.32	
Cadmium (Diet)	, 71.1	,985.	, 0.752	1
Chromium(VI)	, 0.301	, 6.36	, 3.84	
Chromium, Total			360,000 if no Cr-VI	44
Lead and Compounds in a	s===400/19/2	800	a	52.0
Mercury (elemental)	, 3.13	, 3.13	, 0.208	<u></u>
Selenium	.391.	5,840	0.52	

NOTES:

1) This table of the most common compounds is intended to be a quick reference ONLY. It does not take into account cumulative effects as required in NR 700.

2) Values in this table are taken from the RCL spreadsheet which is periodically updated. PLEASE be sure to reference the RCL spreadsheet for the most current values.

Site-specific

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

Chemical	GIABS	ABS	RBA	Volatilization Factor (m³/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m ³ /kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)
Benzene	1	-	1	5.10E+03	1.82E+03	1.56E+09	1.26E+01	-	1.84E+00	1.60E+00
Dibromoethane, 1,2-	1	-	1	1.25E+04	1.34E+03	1.56E+09	3.48E-01	-	5.84E-02	5.00E-02
Dichloroethane, 1,2-	1	~	1	6.60E+03	2.98E+03	1.56E+09	7.64E+00	-	7.13E-01	6.52E-01
Ethylbenzene	1	-	1	8.18E+03	4.80E+02	1.56E+09	6.32E+01	-	9.19E+00	8.02E+00
Lead and Compounds	1	-	1	-	-	1.56E+09	-	-	-	-
Methyl tert-Butyl Ether (MTBE)	1	-	1	7.08E+03	8.87E+03	1.56E+09	3.86E+02	-	7.64E+01	6.38E+01
Acenaphthene	1	0.13	1	2.03E+05		1.56E+09	-	-	-	-
Anthracene	1	0.13	1	7.56E+05	-	1.56E+09		-	-	-
Benz[a]anthracene	1	0.13	1	6.37E+06	-	1.56E+09	2.10E-01	6.29E-01	5.85E+01	1.57E-01
Benzo(j)fluoranthene	1	0.13	1	-	-	1.56E+09	5.79E-01	1.58E+00	3.98E+04	4.24E-01
Benzo[a]pyrene	1	0.13	1	-	-	1,56E+09	2.10E-02	6.29E-02	1.44E+03	1.57E-02
Benzo[b]fluoranthene	1	0.13	1	-	-	1.56E+09	2.10E-01	6.29E-01	1.44E+04	1.57E-01
Benzo[k]fluoranthene	1	0.13	1	-	-	1.56E+09	2.10E+00	6.29E+00	1.44E+04	1.57E+00
Chrysene	1	0.13	1	-	-	1.56E+09	2.10E+01	6.29E+01	1.44E+05	1.57E+01
Dibenz[a,h]anthracene	1	0.13	1	-	-	1.56E+09	2.10E-02	6.29E-02	1.32E+03	1.57E-02
Dibenzo(a,e)pyrene	1	0.13	1	-	-	1.56E+09	5.79E-02	1.58E-01	3.98E+03	4.24E-02
Dimethylbenz(a)anthracene, 7,12-	1	0.13	1	-	-	1.56E+09	6.13E-04	1.84E-03	2.23E+01	4.59E-04
Fluoranthene	1	0.13	1	-	-	1.56E+09	-	-	-	-
Fluorene	1	0.13	1	4.06E+05	-	1.56E+09	•	-	-	-
indeno[1,2,3-cd]pyrene	1	0.13	1	-	-	1.56E+09	2.10E-01	6.29E-01	1.44E+04	1.57E-01
Methylnaphthalene, 1-	1	0.13	1	8.46E+04	3.94E+02	1.56E+09	2.40E+01	6.55E+01	-	1.76E+01
Methylnaphthalene, 2-	1	0.13	1	8.37E+04	-	1.56E+09	-	-	-	-
Naphthaiene	1	0.13	1	6.69E+04	-	1.56E+09	-	-	5.52E+00	5.52E+00
Nitropyrene, 4-	1	0.13	1	-	-	1.56E+09	5.79E-01	1.58E+00	3.98E+04	4.24E-01
Pyrene	1	0.13	1	3.43E+06	-	1.56E+09	-	-	-	-
Toluene	1	-	1	6.19E+03	8.18E+02	1.56E+09	-	-	-	-
Trimethylbenzene, 1,2,4-	1	-	1	1.14E+04	2.19E+02	1.56E+09	~	-	-	-
Trimethylbenzene, 1,3,5-	1	-	1	9.54E+03	1.82E+02	1.56E+09) -	-	-	-
Xylenes	1	-	1	8.28E+03	2.60E+02	1.56E+09) -	-	-	-

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NR 140.05

(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.

primarily of earthen materials for the treatment or storage of wastewater or sludge, which is not a land disposal system. History: Cr. Register, September, 1985, No. 357, eff. 10–1–85; cr. (1m), am. (7). (17) and (18), Register, Octoher, 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, Octoher, 1996, No. 490, eff. 11–1–96; am. (20), Register, December, 1998, No. 516, eff. 1–1–99; correction in (9) made under s. 13.93 (2m)(b) 7. Stats. Register, April, 2001, No. 544; CR 02–134; cr. (1u), (1w), (1y) and (20s) Register June 2003 No. 570, eff. 7–1–03; correction in (20) made under s. 13.92 (4)(b) 6. Stats., Register January 2012 No. 673

Subchapter II -- Groundwater Quality Standards

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

Note: For all substances that have carcinogenic, mutagenic or teratogenic properties or interactive effects, the preventive action limit is 10% of the enforcement standard. The preventive action limit is 20% of the enforcement standard for all other substances that are of public health concern. Enforcement standards and preventive action limits for additional substances will be added to Table 1 as recommendations are developed pursuant to ss. 160.07, 160.13 and 160.15, Stats

Table I
Public Health Groundwater Quality Standards

Substancel	Enforcement Standard (micrograms per liter- except as noted)	Preventive Action Limit (micrograms per liter – except as noted)
Acetochlor	7	0.7
Acetochlor ethane sulfonic acid + oxanilic acid (Acetochlor – ESA + OXA)	230	46
Acetone	9 mg/l	1.8 mg/i
Alachlor	2	0 2
Alachlor ethane sulfonic acid (Alachlor – ESA)	20	4
Aldicarb	10	2
Aluminum	200	40
Ammonia (as N)	9.7 mg/i	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 ²	0.3^{2}
Bacteria, Total Coliform	0 ³	03
Barium	2 milligrams/liter (mg/l)	0.4 mg/l
Bentazon	300	60
Benzene	5	0.5
Benzo(b)fluoranthene	0.2	0.02
Benzo(a)pyrene	0.2	0.02
Beryllium	4	0.4
Boron	1000	200
Bromodichloromethane	0.6	0 06
Bromoform	4.4	0.44
Bromomethane	10	1
Butylate	400	80
Cadmium	5	0.5
Carbaryl	40	4
Carbofuran	40	8
Carbon disulfide	1000	200
Carbon tetrachloride	5	0.5
Chloramben	150	30
Chlordane	2	0.2
Chlorodifluoromethane	7 mg/l	0.7 mg/l
Chloroethane	400	80
Chloroform	6	0.6
Chlorovrifos	2	0.0
Chloromethane	2	2
Chromium (total)	100	5
	0.2	10
Chrysene	0.2	0.02

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DEPARTMENT OF NATURAL RESOURCES

NR 140.10

	Table 1 – Continued	
ľu	blic Health Groundwater Quality Standa	rds
Substancel	Enforcement Standard (micrograms	Preventive Action Limit (micrograms
Cabalt	40	
Coppor	40	8
Copper	1500	01
Cyanazine Cyanazine	200	0.1
	200	40
	70 0.05	14
Dihaamaahlaaamathana	0.03	0.003
	00	0
1,2-Dibromo-3-chioropropane (DBCP)	02	0.02
	1000	100
	300	60
1,2-Dichlorobenzene	600	00
1,3-Dichiorobenzene	000	120
1,4~Dichlorobenzene	75	200
Dichlorodifluoromethane	1000	200
I, I-Dtchloroethane	850	85
I,2-Dichloroethane	5	0.5
I, I-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	06
Dimethenamid/Dimethenamid-P	50	5
Dimethoate	2	0.4
2,4-Dinitrotoluene	0.05	0.005
2,6-Dimitrotoluene	0.05	0.005
Dinitrotoluene, total Residues ³	0.05	0.005
Dinoseb	7	1.4
I,4-Dioxane	5	0.3
Dioxin (2, 3, 7, 8~TCDD)	0.00003	0.000003
Endrin	2	0.4
EPTC	250	50
Ethylbenzene	700	140
Ethyl ether	1000	100
Ethylene glycol	14 mg/i	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
<i>N</i> -Hexane	600	120
Hydrogen sulfide	30	6
Lead	15	1.5
Lindane	0.2	0 02 -
Manganese	300	60
Mercury	2	0.2

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NR 140.10

WISCONSIN ADMINISTRATIVE CODE

Table I - Continued Public Haulth Croundwater Quality Standards				
Substance ^t	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 sultonic acid + oxanilic acid (Metolachlor – ESA + OXA)	1.3 mg/l	0.26 mg/l		
Metribuzin	70	14		
Molybdenum	40	8		
Monochlorobenzene	100	20		
Naphthalene	100	10		
Nickel	100	20		
Nitrate (as N)	10 mg/ł	2 mg/l		
Nitrate + Nitrite (as N)	10 mg//	2 mg/l		
Nitrite (as N)	1 mg/l	0.2 mg/l		
N-Nitrosodiphenylamine	7	0.7		
Pentachlorophenol (PCP)	1	0.1		
Perchlorate	1	0.1		
Phenol	2 mg/l	0.4 mg/l		
Picloram	500	100		
Polychlorinated biphenyls (PCBs)	0.03	0.003		
Prometon	100	20		
Propazine	10	2		
Pyrene	250	50		
Pyridine	10	2		
Selenium	50	10		
Silver	50	10		
Simazine	4	0.4		
Styrene	100	10		
Tertiary Butyl Alcohol (TBA)	12	1.2		
I, I, 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	4		
I, I, 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		
Tritluralin	7.5	0.75		
Trimethylbenzenes	480	96		
(1.2.4 - and 1.3.5 - combined)				
Vanadium	30	6		

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DEPARTMENT OF NATURAL RESOURCES

Table 1 – Continued Public Health Groundwater Quality Standards			
Substance ¹	Enforcement Standard (micrograms per liter – except as noted)	Preventive Action Limit (micrograms per liter- except as noted)	
Vinyl chloride	0.2	0.02	
Xylene ⁶	2 mg/l	0.4 mg/l	

Appendix I contains Chemical AbstractService (CAS) registry numbers, common synonyms and trade names for most substances listed in T able 1.

² Total chlorinated atrazine residues includes parent compound and the following metabolites of health concern: 2-chloro-4-amino-6-isopropylamino-s-triazine (formerly deethylatrazine), 2-chloro-4-amino-6-ethylamino-s-triazine (formerly deisopropylatrazine) and 2-chloro-4.6-diamino-s-triazine (formerly diamino-a-triazine) trazine).

³ Total coliform bacteria may not be present in any 100 ml sample using either the membrane filter (N1F) technique, the presence-absence (P-A) coliform test, the minimal medium ONPG-MUG (MMO-MUG) test or not present in any 10 ml portion of the 10-tube multiple tube fermentation (MTF) technique

+"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"

³Dinitrotolucne. Total Residues includes the dinitrotolucne (DNT) isomers: 2,3-DNT. 2,4-DNT. 2,5-DNT. 2,6-DNT. 3,4-DNT and 3,5-DNT

"Xylene includes meta~, ortho-, and para-xylene combined

History: Cr. Register, September, 1985, No. 357, eff. 10–1-85; am, table I, Register, Octoher, 1988, No. 394, eff. 11–1-88; am, table I, Register, September, 690. No. 417, eff. 10–1-90; am, Register, January, 1992. No. 435, eff. 2–1–92; am, Table I, Register, March, 1994, No. 459, eff. 4–1–94; am, Table I, Register, August. 1945. No. 476, eff. 9–1–95; am, Table I, Register, December, 1998, No. 516, eff. 12–31–99; am, Table I, Register, December, 1998, No. 516, eff. 12–31–99; am, Table I, Register, March, 1994, No. 459, eff. 4–1–94; am, Table I, Register, August. 1945. No. 476, eff. 9–1–95; am, Table I, Register, December, 1998, No. 516, eff. 12–31–99; am, Table I, Register, Narch, 2000, No. 511, eff. 4–1–09; am, Table I, Register, Petruary 2004 No. 578, eff. 3–1–04; CR 02–095; am, Table I, Register November 2006 No. 611, eff. 12–11–68; reprinted to correct errors in Table I, Register January 2007 No. 613; CR 07–034; am, Table I, Register January 2008 No. 625, eff. 2–1–08; CR 09–102; am, Table I, 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 7 Public Welfare Groundwater Quality Standards

Substance	Enforcement Standard (milligrams per liter – except as noted)	Preventive Action Limit (milligrams per liter – except as noted)
Chloride	250	125
Color	15 color units	7.5 color units
Foaming agents MBAS (Methylene-Blue Active Substances)	0.5	0.25
Iron	0.3	0.15
Manganese	0.05	0.025
Odor	3	1.5
	(Threshold Odor No.)	(Threshold Odor No.)
Sulfate	250	125
Zinc	5	2.5

History: Cr. Register, September, 1985, No. 357, eff. 10~1-85; am. table 2. Register, October, 1990, No. 418, eff. 11-1-90; am. Table 2. Register, March. 1994, No. 459, eff. 4~1-94

NR 140.14 Statistical procedures. (1) If a preventive action limit or an enforcement standard for a substance listed in Table 1 or 2, an alternative concentration limit issued in accordance with s. NR 140.28 or a preventive action limit for an indicator parameter established according to s. NR 140.20 (2) is attained or exceeded at a point of standards application:

(a) The owner or operator of the facility, practice or activity at which a standard is attained or exceeded shall notify the appropriate regulatory agency that a standard has been attained or exceeded; and

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

(2) The regulatory agency shall use one or more valid statistical procedures to determine if a change in the concentration of a substance has occurred. A significance level of 0.05 shall be used for all tests

(3) In addition to sub. (2), the following applies when a preventive action limit or enforcement standard is equal to or less than the limit of quantitation:

(a) If a substance is not detected in a sample, the regulatory agency may not consider the preventive action limit or enforcement standard to have been attained or exceeded.

(b) If the preventive action limit or enforcement standard is less than the limit of detection, and the concentration of a substance is reported between the limit of detection and the limit of quantitation, the regulatory agency shall consider the preventive action limit or enforcement standard to be attained or exceeded only if:

1. The substance has been analytically confirmed to be present in the same sample using an equivalently sensitive analytical method or the same analytical method, and

2. The substance has been statistically confirmed to be pres ent above the preventive action limit or enforcement standard, determined by an appropriate statistical test with sufficient samples at a significance level of 0.05

(c) If the preventive action limit or enforcement standard is between the limit of detection and the limit of quantitation, the regulatory agency shall consider the preventive action limit or

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Site Investigation Field Procedures Workplan - METCO Sandy's Service (Former)

APPENDIX E/PROJECT DOCUMENTS

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UNDERGROUND STORAGE TANK SITE ASSESSMENT REPORT

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Former Sandy's Service Site 16569 South State Road 35 Dairyland, Wisconsin 54830

Prepared by Environmental Troubleshooters, Inc. 102 South 29th Avenue West Duluth, Minnesota 55806

ET Project Number: 01-1116

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UNDERGROUND STORAGE TANK SITE ASSESSMENT REPORT

Former Sandy's Service Site 16569 South State Road 35 Dairyland, Wisconsin 54830

I. SITE BACKGROUND INFORMATION

A. Introduction

Environmental Troubleshooters, Inc. (ET) performed underground storage tank site (UST) assessment activities on behalf of Mr. Ray Sandstrom, the current property owner.

B. Personnel

The certified site assessor present at the time of UST closure was:

Amber A. Wallgren Environmental Troubleshooters, Inc. 102 South 29th Avenue West, Suite 100 Duluth, Minnesota 55806 (218) 722-6013 Certification # 253102

The excavating subcontractor on the project was:

Dwayne Proffit Dairyland, Wisconsin, 54830 (715) 244-3509

The certified remover/cleaner on the project was Robert Strassburg, Certification # 01065, of B&D Pump (4950 Lightning Drive, Duluth, Minnesota; Telephone (218) 729-9696). Also on site at various times during tank and piping removal activities were J&D Services of Aurora, Minnesota for tank pumping, cutting and cleaning.

C. Location

The site is located in the NW¼, Sec.34, T42N, R14W, in Douglas County, Wisconsin. The site location is illustrated in Figure 1.

The Former Sandy's Service Station site is located near the intersection of State Road 35 and County Road T West in Cozy Corner, Wisconsin (near Dairyland). North Road borders the property to the west. The former tank basin, associated piping and dispensers

were located in the central portion of the property. The garage portion of the property is currently unoccupied. An occupied residence is located on the northern portion of the property. Pertinent site features include a service garage, a residence, miscellaneous scrap piles and numerous parked, used vehicles.

The Former Sandy's Service Station site previously operated four (4) underground storage tanks (USTs) to the south of the service garage (Figures 2). The USTs include: two (2) 560-gallon diesel tanks; one (1) 560-gallon gasoline tank; and one (1) 1,000-gallon gasoline tank. Mr. Ray (Dusty) Sandstrom previously conducted vehicle repair services at the subject site, in conjunction with gasoline and diesel distribution.

The on-site residence occupies the northern portion of the property followed by woodlands. Highway 35, County Road T West and North Road intersect to the south. Highway 35 exists directly to the east. Dairyland School exists nearly 1,000 feet to the southeast. North Road, followed by the volunteer fire department building and forest border the site to the west. The site plan view for the site is depicted in Figure 2.

D. Site and Vicinity Characteristics

An unused service station garage and an occupied residence currently exist at the site. Mr. Sandstrom is unable to enter either the garage or the residence because of respiratory problems.

Local site geology, from information collected during UST removal assessment activities, consists of brown, coarse grained, poorly sorted sand within the former tank system basin.

Geology in the area consists of surficial Quaternary glacial deposits overlying bedrock. Quaternary deposits consist of generally well-sorted, fine to coarse sand associated with glaciofluvial deposits (Mickelson et al. 1984, Pleistocene Stratigraphic Units of Wisconsin, WGNHS Misc. Paper 84-1). Bedrock stratigraphy consists primarily of middle Precambrian volcanic rocks: basalt flows and interbedded sedimentary rocks including Chengwatana Volcanic Group and Portage Lake Volcanics (Mudrey, Brown, and Greenburg. 1982. Bedrock Map of Wisconsin 1:1,000,000). Hydrogeology consists of an unconfined aquifer in the surficial sand deposits. Locally, depth to water is anticipated to be approximately between depths of thirty (30) and forty (40) feet bgs. Groundwater flow is anticipated to be locally to the south/southwest, towards Chases Brook.

E. Tank Information

The UST system present at the site consisted of: two (2), 560-gallon diesel tanks, one (1) 560-gallon gasoline tank, one (1) 1,000-gallon gasoline tank, associated piping and four (4) dispensers. The four (4) USTs were of coated steel construction and had neither cathodic nor overfill protection. Spill containment/spill buckets were not present on the

tanks. The primary tank leak detection method employed was manual tank gauging. The piping system was composed of non-cathodically protected, coated steel.

Site assessment activities were initiated in compliance with ILHR/ COMM 10 rules and regulations for UST systems. None of the tanks had any visible holes or cracks. Rust was limited and spotty. Pipe-fittings were secure and intact.

The Underground Flammable/Combustible Liquid Storage Tank Inventory Forms and Checklist for Tank Closure are attached in Appendix A and B, respectively. Department of Commerce database review indicated that one (1) of the four (4) tanks was not registered. A signed copy of the Tank Inventory Form for this tank, a 1,000-gallon gasoline tank is attached as Appendix B.

II. ACTIVITIES (Including Visual Inspection) AND EXCAVATION

UST and piping closure was conducted by removal and occurred concurrently for all four (4) tanks (November 21, 2001). Weather at the time of removal was in the mid 40s to low 50s and skies were sunny. No precipitation was reported throughout the excavation period.

Tank #1 - 560-gallon diesel UST

Excavation commenced directly west of the first 560-gallon tank, the tank situated the farthest west within the tank basin. Excavation activities revealed gray native silty clay. Overlying backfill was a brown well-graded sand with silt. Noticeable odor was observed near the fill pipe and at the top of the tank. A soil sample collected beneath this tank was field screened with a photoionization detector (PID) and resulted in a reading of 479 parts per million (ppm). Limited perched groundwater was encountered at approximately seven (7) feet below ground surface.

Tank #2 - 560-gallon diesel UST

Excavation continued to the east with a second 560-gallon diesel tank, situated directly east of the first 560-gallon diesel tank. Excavation activities revealed similar soils that were encountered near the first UST. Noticeable odor was once again observed near the fill pipe and at the top of the tank. However, the odor was not as pronounced as was noted near the first removed tank. A soil sample collected beneath this tank was field screened with a PID and resulted in a reading of 462 parts ppm. A soil sample from beneath this tank was collected for laboratory analysis. Exposed piping was found in good condition.

Tank #3 - 560-gallon gasoline UST

Excavation continued to the east with the removal of a 560-gallon gasoline tank, situated directly east of the second 560-gallon diesel tank. Tank orientations are visually depicted

on the attached Figure 2. Excavation activities revealed similar soils that were encountered near the first UST. Noticeable odor was once again observed near the fill pipe and at the top of the tank. However, the odor was not as pronounced as was noted near the first removed tank and was distinctly gas. A soil sample collected beneath this tank was field screened with a PID and resulted in a reading of 763 ppm, as isobutylene. A soil sample from beneath this tank was collected for laboratory analysis. Exposed piping was found in good condition and the piping was dry.

Tank #4 – 1,000-gallon gasoline UST

Excavation continued to the east with the removal of the final tank, a 1,000-gallon gasoline tank, situated directly east of the 560-gallon gasoline tank. Tank orientations are visually depicted on the attached Figure 2. Excavation activities revealed similar soils that were encountered near the first UST. Noticeable odor was once again observed near the fill pipe and at the top of the tank. A soil sample collected beneath this tank was field screened with a PID and resulted in a reading of 569 ppm, as isobutylene. Exposed piping was found in good condition and the piping was dry.

Two (2) soil samples were submitted to a Wisconsin certified independent laboratory for analysis. Soil samples were collected beneath: (1) tank #2 (560-gallon diesel); and (2) tank #3 (560-gallon gasoline). The samples were collected at a depth of approximately seven (7) feet BGS. For personnel safety, the samples were collected from the backhoe bucket; care was taken to collect a representative sample at the stated depth after a minimum of six (6) inches of soil was removed. Sampled material is believed to be native with respect to historic filling at the site.

The piping runs were disconnected from the dispensers and removed. Following piping removal, the pumps were removed from the island and staged along the backside of the former service garage. The concrete island was removed and placed next to the parked vehicles on the western portion of the site.

III. CLEANING, DISPOSAL AND SURPLUS PRODUCT MANAGEMENT

J&D Services pumped the four (4) tanks free of remaining product, diesel or gas. Dwayne Profitt transported the two (2) diesel tanks to his nearby facility for possible future use.

ET personnel witnessed the cleaning and removal of tank bottom materials (sludge) from the gasoline tanks. Tank sludge was removed by five (5)-gallon bucket, floor dry, and absorbent padding and retained in 55-gallon drums while on-site. Sludge was transported to Como Lube and Supplies, 1108 Port Terminal Drive, Duluth, Minnesota 55802, (218) 722-2920 where it was stored pending final depository. Material was then transported to WRR Environmental Services Company, Inc., 5200 State Road 93, Eau Claire, Wisconsin, 54701, for recycling. Representatives of ET did not conduct laboratory analysis on the tank sludge.

The cut and cleaned gasoline tanks were transported to Bay Side Recycling for scrapping purposes. The tank cleaning and disposal documentation is included in Appendix C.

IV. SITE LOCATION MAP

Refer to Figure 1 for Site Location Map.

V. SITE LAYOUT PLAN

Refer to Figure 2 for Site Plan View.

VI. SAMPLING

Field screening for volatile organic compounds (VOCs) was performed during excavation. Sample locations are shown in Figure 2. Field screening was conducted using a MiniRae 10.6 eV PID calibrated to 100.00 ppm isobutylene span gas and air in accordance with WDNR guidance (PUBL-SW-176-93) and according to the guidelines established by Wisconsin Administrative Code ILHR/COMM 10.

Soil sampling was conducted in accordance with WDNR LUST and Petroleum Analytical and Quality Assurance Guidance (PUBL-SW-130-93) and according to Wisconsin Administrative Code ILHR/COMM 10, Appendix B, Attachment 3. Table 1 presents a summary of the laboratory analytical results for the samples submitted to a Wisconsin certified lab for analysis. The laboratory analytical report in its entirety is attached as Appendix D.

VIII. DISCUSSION

The site assessment conducted for the UST system confirmed the presence of petroleum contamination. Initial visual inspection, field screening results and olfactory evidence from the former tank basin suggested the site's soil had been impacted. Contaminated soil near the fill pipes is consistent with spills and/or overfills.

Analytical results from samples collected at beneath a 560 gallon diesel and 560-gallon gasoline tank indicate gasoline range organic (GRO) and diesel range (DRO) soil contamination was present above WDNR site investigation trigger levels.

Potential for groundwater contamination exists; localized perched water (associated with nearby wetlands areas) at depths between five (5) and fifteen (15) feet BGS are believed to be at risk and necessitate an investigation.

If you have any questions regarding the site assessment results, please contact me at (218) 722-6013.

I, Amber A. Wallgren, hereby certify that I a ma hydrogeologist 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 ch. ILHR 10 Wis. Adm. Code.

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Amber A. Wallgren Wisconsin Site Assessor #253102

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FIGURES

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TABLES

Table 1 Tank Removal Site Assessment Analytical Results (November 21, 2001) Former Sandy's Service Site Dairyland, Wisconsin

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	Sample	PID Reading	GRO	DRO	Benzene	Ethylbenzene	Toluene	Xylenes	MIBE	1,2,4-TMB	1,3,5-TMB
Ì	Identification	(ppmX)	(mg/kg)	(mg/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)
	Tank #2	462	NA	1,900	<1,000	6,900	<1,000	31,000	<1,000	58,000	20,000
ļ	B-1 (7 ft)	1	-	1	Į		ł	ļ		I	
	Tank #3	703	1,800	NA	<1,000	9,300	1,300	41,000	<1,000	68,000	25,000
	B-1 (7 ft)	Į		ļ							
ļ	WDNR Site	Investigation	10	10	NS	NS	NS	NS	NS	NS	NS
	Trigge	r Level									
	WDNR	Residual	100	100	5. 5	2,900	1,500	4,100	NS	NS	NS
_	Contamir	ant Level)			

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< - Analyte concentration was below the method detection limit Shading indicates an exceedence of the Wisconsin Department of Natural Resources (WDNR) Site Investigation Trigger Level of 10 ppm GRO/DRO

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14.11.11

mg/kg - milligrams per kilogram (equivalent to parts per million)

ug/kg - micrograms per kilogram (equivalent to parts per billion)

GRO - gasoline range organics

DRO- diesel range organics TMB - trimethyl benzene

MTBE - methyl-tert-butyl ether

PID-photo ionization detector

NA - Not analyzed

NS - No published standards

APPENDIX A

Underground Flammable/Combustible Liquid Storage Tank Inventory Forms State of Wisconsin

WI Tank ID#: 284693

UNDERGROUND PETROLEUM PRODUCT TANK INVENTORY

Information Required By Section 101.142, Wis. Stats.

Send Completed Form To: Department of Commerce ERS Division Bureau of Storage Tank Regulation P.O. Box 7969, Madison, WI 53707

Underground tanks in Wisconsin that have stored or currently store petroleum or regulated substances must be registered. Please see the reverse side for additional information on this program. An underground storage tank is defined as any tank with at least 10 percent of its total volume (including piping) located below ground level. A separate form is needed for each tank. Send each completed form to the agency designated in the top right corner. Have you previously registered this tank by submitting a form? X Yes \Box No If yes, are you correcting/updating information only? Xes \Box No

correcting/updating information only? X Yes		
This registration applies to a tank that is (check one):	ary purposes, (Privacy Law, S. 15,04 (1)(m))	Ere Department providing free
1A. In Lise or 4. Xi Closed -	Tank Removed 8. Ownership Change (Indicate	coverage where tank is located
1B. Newly Installed 6. Closed-	Filled with Inert Materials new owner name in block 2)	City Village
2. ☐ Abandoned with Product 7. ☐ Out of S 3. ☐ Abandoned No Product (empty) or with Water	ervice - Provide Date:	Town of Dairy land
A. IDENTIFICATION (Please Print)		
1. Tank Site Name	Site Address	Site Telephone Number
Sandy's Service	16569 South State Rd 35	(715) 244- 2447
City Village 🕅 Town of:	State Zip Code	County
Dairyland	Wisconsure 54830	Douglas
2. Tank Owner Name	Mailing Address	Telephone Number
Ray Sandstrom	110569 South State Rd 35	(715) 844 - 8447
City Village Vi Town of	State	County
Darwland	Wiscowing 54830	Dauglas
3 Previous Name	Previous site address if cifferent than #1	
	Glav Dta, 8 Boy 157	
Tank Age (date installed if known or years alg)	5 Tank Capacity (callons) 16 If more than one tank is to	cated at facility please provide task
4. Talik Age (date installed, it known of years did)		cated at lacinty, please provide tank
	1,000 Jamin 401040	·
B. TIPE OF USER (cneck one)		
6 Government 7 School	3. Otimit 4. Mercantile/Commercial	5. U Industrial
11. Tribal Nation 12. Federal Property	13. Backup Generator	
C. TANK CONSTRUCTION (check one)		
1. 🔀 Bare Steel 2. 🖂 Cathodically Protect	ed & Coated Steel (Check one: A. 📋 Sacrificial Anodes or	B. [] impressed Current)
3. Coated Steel 4. Fiberglass	5. Other (specify):	
6. 🔲 Lined - Date:	7. Steel - Fiberglass Reinforced Plastic Composite	9. Unknown
Approval: 1. 🗌 Nat'l Std. 2. 🗍 UL 3. 🗋 Other:	Is tank dout	ole walled? 🗌 Yes 🕅 No_
Overfill Protection Provided? 🗌 Yes 🕅 No If ye	es, identify type: Spiil Contain	nment? 🗌 Yes 😿 No
Tank leak detection method: 1. Automatic tank gauge	ing 2. 🗌 Vapor monitoring	3. Groundwater monitoring
4. U Inventory control and 7. 🗂 Manual tank dauging	tightness testing 5. Uniterstitial monitoring	cal Inventory Reconciliation (SIR)
D. PIPING CONSTRUCTION		
1. 👿 Bare Steel 2. 🗌 Cathodically Protect	ed & Coated Steel (Check one: A, 🗌 Sacrificial Anodes or	8. 🔲 Impressed Current)
3. Coated Steel 4. Fiberglass	5. Other (Soeciry):	9. 🔲 Unknown
Vapor Recovery/Stage II	□ CARS #:	
4. 🗌 Fiberglass ô. 🗌 Flexible 5. 🗍	Other (specify):	ovide Date (mo/day/yr):
Piping System Type: 1. Pressurized piping w	ith λ . \Box auto shutoff; B. \Box alarm or C. \Box flow restrictor	
2. Ki Suction piping with check valve at tank 5. U St	ck valve at tank: 1 Vapor monitoring	
3. ☐ Groundwater monitoring 4. ☐ Tightness test	ing 5. Line leak detector 6. Not required	a, □ SIR
Approval: 1. Nat'l Std. 2. UL 3. Other:	Is pipe doub	ole walleo? 🗋 Yes 🕱 No
E. TANK CONTENTS		E.
1. Diesel 2. 01	eaded 3. X Unleaded 4.	FuelOil 5. Gasohol
6. U Viner (Specify): /. U t	zinpty 8. [] Sand/Gravel/Slurry 9.	Aviation
Indicate	chemical name and number)	
* If7. 8, 9, or 13 is chosen. this tank is NOT PECFA eligible	3.	
If Tank Closed, Abandoned or Out of Service, give date	(mo/day/yr): Has a site assessment been completed	(see reverse side for details)
November al, aool	X Yes No	-
Owner or Operator Name (please print);	Indicate wheth	er:

X Owner or

Date Signed

Operator

II – 21 – 01 <u>IMPORTANT</u>: Failure to provide sufficient information may cause you to fall under additional regulations, and may delay VECFA eligibility determination. It is necessary to complete ALL shaded areas and as many other items as possible.

Ray

Owner or Operator-Signature:

Sandstrow

State of Wisconsin

WI Tank ID#: 284694

UNDERGROUND PETROLEUM PRODUCT TANK INVENTORY

Information Required By Section 101.142, Wis. Stats.

Send Completed Form To: Department of Commerce ERS Division Bureau of Storage Tank Regulation P.O. Box 7969, Madison, WI 53707

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Underground tanks in Wisconsin that have stored or currently store petroleum or regulated substances must be registered. Please see the reverse side for additional information on this program. An underground storage tank is defined as any tank with at least 10 percent of its total volume (including piping) located below ground level. A separate form is needed for each tank. Send each completed form to the agency designated in the top right corner. Have you previously registered this tank by submitting a form? \bigotimes Yes \Box No If yes, are you correcting/updating information only? \bigotimes Yes \Box No

Personal information you provide may be used for secondary pu	urposes. (Privacy Law, s. 1	5.04 (1)(m) }	
This registration applies to a tank that is (check one):			Fire Department providing fire
1A. In Use or 4. X Closed - Tank	k Removed 8. 🗌 C	Winership Change (In	dicale coverage where tank is located;
2. □ Abandoned with Product 7. □ Out of Service	e · Provide Date:	ew owner name in bio	
3. Abandoned No Product (empty) or with Water			Town of Dairy land
A. IDENTIFICATION (Please Print)			
1. Tank Site Name Site	e Address		Site Telephone Number
Sandy's Service 11	6569 South State	Rd 85	(·715) 244 - 344 7
City Village X Town of: Sta	ate	Zip Code	County
Dauryland W	iscons un	54830	Douglas
2. Tank Owner Name Mai	iling Address		Telephone Number
Ray Sandstronce 11	6569 South State	i Rd 35	(115) 244 - 3441
City Village 🕅 Town of: Sta	ete .	Zip Coce	County
Dawyland	isconsulo	54830	Douglas
3. Previous Name Pre	vious sile address if differe	nt than #1	
	ar Rte 3 Box	157	
4. Tank A.ge (date installed, if known or years olo) 5. 7	Tank Capacity (gallons) 6	. If more than one tan	k is located at fac⊪ity, please provide tank ≉
	Stro gallons	# 284694	
B. TYPE OF USER (check one)			
1. 🕅 Gas/Retail Sales 2. 🗌 Bulk Storage 3. (Utility 4.	Mercantile Commercia	1 5. 🔲 Industrial
6. Government 7. School 8. (Residential 9. Residential 9.	Agricultural	10. 🔲 Other (spec f):
C TANK CONSTRUCTION (check one)			
1. X Bare Steel 2. T Cathodically Protected &	Coaled Steel (Check one:	A. (Ti Sacrificial Anod	des or B. C impressed Current)
3. Coated Steel 4. Fiberglass 5. (Other (specify):		
6. Lined - Date:7. [Sleel - Fiberglass Reinfo	orced Plastic Composi	e 9. 🗇 Unknown
Approval: 1. Aat'l Std. 2. UL 3. Other:	·····	ls tan	k double walled? 🔲 Yes 🕱 No
Approval: 1. Nat'l Std. 2. UL 3. Other: Overfill Protection Provided? Yes X No If yes, id	lentity type:	ls tan Spill (k double walled? Ves X No Containment? Yes X No
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MPORTANT: Failure to provide sufficient information may cause you to fail under additional regulations, and may delay PECFA eligibility determination. It is necessary to complete ALL shaded areas and as many other items as possible.

ERS-7437 (R. 01/97)

State of Wisconsin U	NDERGROUND PETROLEUM	Send Completed Form To:				
WI Tank ID#: a culture of F	RODUCT TANK INVENTORY	ERS Division				
11 Tatik 10#. 284695 Informa	Information Required By Section 101.142, Wis. Stats.					
Underground tanks in Wisconsin that have store	ed or currently store petroleum or regulated	substances must be registered. Please see				
the reverse side for additional information on the	s program. An underground storage tank i	s defined as any tank with at least 10 percent of				
agency designated in the top right corner. Have	ground level. A separate form is needed in wou previously registered this tank by sub	mitting a form? VYes No if yes are you				
correcting/updating information only? Yes						
Personal information you provide may be used for sec	ondary purposes. [Privacy Law, s. 15.04 (1)(m)]					
This registration applies to a tank that is (check one)		Fire Department providing fire				
1A. In Use or 4. X Clo	sed - Tank Removed 8. Ownership C	hange (Indicate coverage where tank is located:				
2. Abandoned with Product 7. Out	of Service - Provide Date:					
3. Abandoned No Product (empty) or with Wate	er	K Town of Daily 1000				
A. IDENTIFICATION (Please Print)						
1. Jank Site Name	Site Address	Site Telephone Number				
Sandy's Dervice	16569 South State Ra 2	<u>(115) 244 - 344 1</u>				
	State Zip Code	County				
Dairy I was		Douglas				
2. Park Owner Name						
Ruy Janus Ironri	Slave South State Ka	35 [[115] a44-344-1				
		Develop				
Dairy Iana						
3. Previous Name	Frevious site address in orierent than #1					
1. Tank Age (date installed if known or your of						
		an one lank is located at raciny, please provide tank ∓				
B TYPE OF LISER (check one)	1 Deo - gameso 1 abi	<i>•</i> 13				
1. X Gas/Retail Sales 2. D Butk Storage	3. Utility 4 Mercantile/	Commercial 5 🗖 Industrial				
6. Government 7. School	8. Residential 9. Agricultural	10. Other (specify):				
11. Tribal Nation 12. D Federal Proper	13. Backup Generator					
C. TANK CONSTRUCTION (check one)						
1. K Bare Steel 2. □ Cathodically Pr 3. □ Coated Steel 4. □ Fiberolass	otected & Coated Steel (Check one: A. C. Sac: 5. Clober (specify):	Ificial Anodes of B. (Impressed Cufrent)				
6. [] Lined - Date:	7. Steel - Fiberglass Reinforced Plastic	Composite 9. Unknown				
Approval: 1. Nat'l Sid. 2. UL 3. Oth	er:	is tank double walled? 🔲 Yes 🕅 No				
Overfill Protection Provided? Yes X No	If yes, identify type:	Spill Containment? 🗌 Yes 🕅 No				
Tank leak detection method: 1. Automatic tank	gauging 2. 🗌 Vapor monit	oring 3. C Groundwater monitoring				
4. 🔲 Inventory contro 7. 🗔 Manual tank ga	of and tightness testing 5. [] Interstitial m uging (only for tanks of 1,000 gallons or less)	8 C Statistical Inventory Reconciliation (SIR)				
D. PIPING CONSTRUCTION						
1. 🕅 Bare Steel 2. 🗌 Cathodically Pr	otected & Coated Steel (Check one: A.] Sac:	ificial Anodes or B. [] Impressed Current)				
3. Coated Steel 4. Fiberglass	5. Olher (Specify):	9. U Unknown				
Vapor Recovery/Stage II		CARB #:				
Piping System Type: 1 Pressurized pip	no with A. auto shutoff: B. alarm or C.	flow restrictor				
2. X Suction piping with check value at tank 3.	Suction piping with check valve at pump and	inspectable 4. Not needed if waste oil				
Piping leak detection method: used if pressurized o	r check valve at tank: 1. Vapor monitorin	g 2. Interstitial monitoring				
3. Groundwater monitoring 4. Ulightness	testing 5. U Line leak detector 6. U	Vot required 8. USIR				
	27.	is pipe double walled? Lifes XI No				
1 M Diesel 2.	☐ Leaded 3. □ Unlead	ed 4. 🗌 Fuel Oil 5. 🗍 Gasohol				
6. Other (Specify): 7.	Empty* . 8. Sand/G	Sravel/Słuny* 9. 🗌 Unknown* 10. 🗌 Premix				
11. Waste/Used Motor Oil 13.	Chemical 14. Kerose	ne 15. Aviation				
" If 7, 8, 9, or 13 is chosen this tank is NOT PECFA e	icible.					
If Tank Closed, Abandoned or Out of Service, give	date (mo/day/yr): Has a site assessment	been completed (see reverse side for details)				
November 21, 2001	Yes No	~				
Owner or Operator Name (please print):		Indicate whether:				
Ray Sandstron		Owner or Operator				
Owner or Operator Signature	······································	Date Signed				
Contract Operator Degination	12	11-21-01				
KIN XIMALU	<u>/</u>					

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فحجاه بقبعنا موتنات البيام متحا بتدامهما

MPORTANT: Failure to provide sufficient information may cause you to fall under additional regulations, and may delay PECFA eligibility determination. It is necessary to complete ALL shaded areas and as many other items as possible. State of Wisconsin

WI Tank ID#:

UNDERGROUND PETROLEUM PRODUCT TANK INVENTORY

Information Required By Section 101.142, Wis. Stats.

Send Completed Form To: Department of Commerce ERS Division Bureau of Storage Tank Regulation P.O. Box 7969, Madison, WI 53707

Underground tanks in Wisconsin that have stored or currently store petroleum or regulated substances must be registered. Please see the reverse side for additional information on this program. An underground storage tank is defined as any tank with at least 10 percent of its total volume (including piping) located below ground level. A separate form is needed for each tank. Send each completed form to the agency designated in the lop right corner. Have you previously registered this tank by submitting a form? 🗆 Yes 🙀 No If yes, are you correcting/updating information only? [] Yes [] No Personal information you provide may be used for secondary purposes. [Privacy Law, s. 15.04 (1)(m)] This registration applies to a tank that is (check one): Fire Department providing fire 1A. 🗌 In Use or 4. Closed - Tank Removed 8. Ownership Change (Indicate coverage where tank is located: 1B. Newly Installed Closed - Filled with Inert Materials new owner name in block 2) City Village 6. 2. Abandoned with Product 7. Out of Service - Provide Date: Town of Dairy land Abandoned No Product (empty) or with Water 3, IDENTIFICATION (Please Print) A

Sandy 5 Service: 145 [2] South 6132 [2] Code [115] 2444 - 8447 City Unline [15] Toim of State [2] Code County Ray Carlot State [2] Code State [2] Code County Ray Carlot Wilson State [2] Code County State [2] Code [2] Code County Dawy land Ulson [3] Consult State [2] Coce County County 3. Previous Name Previous Site address infilterent than #1 State [2] Coce County Doug las 4. Tank Ase (date installed. if known or years old) [3] Taka Capacty (glion) [6] If more than one tank is located at facility, please provide tank #1 6. TYPE OF USER (check one) [1] Coce County [2] Federal Procepty [3] Bachung Generation [6] Impressed Current) 1. M Gashetal Sole 2 Bulk Storage 3 [1] Ultity 4 Immediate Generation [3] Coce 6. Government 7. School 3 Coated Steel [4] Feorelase [5] Coce [6] Coce <t< th=""><th>1. Tank Site Name</th><th>Site Address</th><th>Site Telephone Number</th></t<>	1. Tank Site Name	Site Address	Site Telephone Number
City	Sandy's Service	16569 South State Rd	35 (715) 244 - 8447
Dawyland Wisconsure Galaxy Galaxy Galaxy Galaxy 2. Tank Owner Name Mailing Address Telephone Number Telephone Number Ray CaveLstrong Itaola 4 South. State Rd. 86 County Telephone Number Dawyland State 126 Coce County Davylas 3. Previous Name Previous site address if affireren than at 1 State Number Davylas 4. Tank Age (date installed, if known or years old) 5. Tank Capacity (galaxy) K. It currently registered Douglas 8. TYPE OF USER (check one) 3. Utility 4. Marcanite/Commercial 5. Industrial Douglas 6. Government 7. Good 8. Utility 4. Marcanite/Commercial 10. Industrial 7. Tabel Nation 12. Deddeal Property 13. Backup Generator 10. Industrial ID. Other (specify): 1. M Bare Steet 2. Catodically Protected & Coated Steet (Check one: A. Sacrifican Andees or B. Impressed Current) 3. Groundwater monitoring 3. Groundwater monitoring 7. TANK ConSTRUCTION (check one) Yes No. If Yes: identify type: Spil Consimment? Yes No 7. Decated Steel 1. Data State 2. Ut. 3. Other: Spil Co	City Village 🕅 Town of:	State Zip Code	County
2. Tank Cover Name Mailing Address Telephone Number Ray Eardstroom Ito StoP Soutk State State Clip Coce County Dawy land Dawy land Wisconsin State State State State State State State Control State St	Dauyland	Wisconsin) 6483	Douglas
Roy Eardstrom, Ito669 Gutt, Citizit, Rd, 35 [/16], ar44 - 2449 City Vilage Town of. State 120 Core County Dacy law 3. Previous Name Previous Site address ir different than ±1 Town of. State Box 167 4. Tank Age (date installed, if known or years old) 5. Tank Capacity (galons) 6. If more than one tank is located at factility, please provide tank = 500 - gallov Not currunity repicit struct. 8. TYPE OF USER (check one) 1. M GastRetail Sales 2. Buk Storage 3. Utility 4. Immer than one tank is located at factility, please provide tank = 500 - gallov Not currunity repicit struct. 1. M GastRetail Sales 2. Buk Storage 3. Utility 4. Immer than one tank is located at factility, please durinity 1. M GastRetail Sales 2. Cathodically Protected & Coated Steel (Check one: A. Sachificial Anodes or B. Impressed Current) 3. Impressed Current) 3. Coated Steel 4. Theory and tang auguity of the site of 100 calls and tang auguity of the site of 100 calls and tang auguity of the site of 100 calls and tang auguity of the site of 100 calls and tang auguity of the site of 100 calls and tang auguity of the site of 100 calls and tang auguity of the site of 100 calls and tang auguity of the site of 100 calls and tang auguity of the tank of 100 calls and tang auguity of the calls and tand tang auguity of the tank of 100 calls and tang auguity of the t	2. Tank Owner Name	Mailing Address	Telephone Number
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Dawy Land Wisconskin 54830 Douglies 3. Previous Name Previous sile address if different than #1	City Village (X) Town of:	Slate Zip Coce	County
3. Previous Name Previous Bie address if different than #1 Star Rt. 3. Box 167 4. Tank Age (date installed. if known or years old) 5 Tank Capacity (gallow) 6. If more than one tank is located at facility, please provide tank is fold. 8. TYPE OF USER (check one) 1. M (Gas/Retail Sales 2.) Bulk Storage 3. Utility 4. Mercantile/Commercial 5. Industrial 8. TYPE OF USER (check one) 1. School 8. Residential 9. Agricultural 10. Other (specify): 11. This Mation 7. School 8. Residential 9. Agricultural 10. Other (specify): 12. Federal Property 13. Backup Generator C. TANK CONSTRUCTION (check one) 1. School Steel 2. Cathodically Protected & Coated Steel 7. Steel - Fibergiass Renforced Plastic Composite 9. Unknown Approval: 1. Nat1St 2. Ut 3. Other: Is tank double walled? Yes No Trank leak detection method: 1. Automatic tank agaiging 5. Other (specify): 3. Cated Steel 1. Mat1St 2. Utahodically Protected & Coated Steel (Check one: A. Sactificial Anodes or B. Impressed Current) 3. Cated Steel 1. Automatic tank agaiging 5. Other (specify): 9. Unknown 4. Therefalses 2. Other (specify): 9. Unknown 9. Unknown	Dairyland	Wisconsin 54830) Doyglas
4. Tank Age (date installed, if known or years old) 5. Tank Capacity (gellons) 16. If more than one tank is located at facility, please provide tank as 560 - goldor 8. TYPE OF USER (check one) 5. Tank Capacity (gellons) 16. If more than one tank is located at facility, please provide tank as 560 - goldor 9. TYPE OF USER (check one) 3. Utility 4. Mercantile/Commercial 5. Industrial 1. M Gas/Retail Sales 2. Burk Storage 3. Utility 4. Mercantile/Commercial 5. Industrial 2. OKOSTRUCTION (check one) 3. Other (specify) 10. Other (specify) 11. Impressed Current) 3. Ocated Steel 2. Othor (specify) 11. Imati Nation 12. Other (specify) 12. Impressed Current) 3. Ocated Steel 2. Other (specify) 13. Other: Impressed Current) 14. Impressed Current) 4. Direction Provide? Yes No If yes, identify type: Spit Containment? Yes No 7. M Kleak detection method: 1. Outomatic lank gauging (only for tanks of 1000 callons or less) 8. Impressed Current) 1. Statistical Inventory Reconciliation (SIP) 1. Manual tank squaging (only for tanks of 1000 callons or less) 8. Impressed Current) 1. Other was talked. 1. Other was talked. 1. Manual tank squauging (only for tanks of 1.000 callons or less	3. Previous Name	Previous site address if different than #1	· · · · · · · · · · · · · · · · · · ·
4. Tank Age (date installed. if known or years old) 5. Tank Capacity (gallons) 6. If more than one tank is located at facility, please provide tank is 560 - galloc 1. M GaseRetall Sales 2. Butk Storage 3. Utility 4. Bercantile/Commercial 5. Industrial 6. Government 7. School 8. Residential 5. Agricultural 10. Other (specify): 11. Trobal Nation 12. Federal Property 13. Backup Generator 10. Other (specify): 3. Goated Steel 2. Cathodically Protected & Coated Steel (Check one): 1. Immersion Andrew Steel 1. Immersion Andrew Steel 10. Other (specify): 3. Goated Steel 1. Not Trank leak double waited? Yes No Yes No 7ank leak detection method: 1. Autory control and lightness testing 5. Interstitiat monitoring 3. Grounowater monitoring 4. Fiberglass 6. Cathodically Protected & Coated Steel (Check one: A. Sacrificial Anodes or B. Impressed Current) 3. Grounowater monitoring 4. Inder Steel 2. Cathed Steel 3. Grounowater monitoring<		Star Rte 3. Box 157	
B. TYPE OF USER (check one) 1. M Gas/Retail Sales 2	 Tank Age (date installed, if known or years old) 	5. Tank Capacity (gallons) 6. If more 1 560 gallor Not cui	than one tank is located at facility, please provide tank : rently registered
1. M Gas/Retail Sales 2. Bulk Storage 3. Utility 4. Mecanitler/Commercial 5. Industrial 1. That Nation 12. Federal Property 13. Backup Generator 10. Other (specify): 1. That Nation 12. Federal Property 13. Backup Generator 10. Other (specify): 3. Coated Steel 1. Fiberglass 5. Other (specify): 1. Specific Composite 9. Unknown Approval: 1. Nati Std. 2. U. 3. Other: Split Containment? Yes No Overfill Protection Provided? Yes No If yes. identify type: Split Containment? Yes No Trank leak detection method: 1. Automatic lank gauging 2. Vapor monitoring 3. Groundwater monitoring 3. Coated Steel 2. Cathodically Protected & Coated Steel (Check one: A. Scitistical Anodes or B. Impressed Current) 3. Coated Steel 2. Cathodically Protected & Scated Steel (Check one: A. Scitistical Anodes or B. Impressed Current) <td>B. TYPE OF USER (check one)</td> <td>· · · · · · · · · · · · · · · · · · ·</td> <td></td>	B. TYPE OF USER (check one)	· · · · · · · · · · · · · · · · · · ·	
6. Government 7. School 8. Residential 9. Agricultural 10. Other (specify): 11. Thabl Nation 12. Federal Property 13. Backup Generator C. TANK CONSTRUCTION (check one) 1. Market Steel 2. Cathodically Protected & Coated Steel (Check one: A.] Sacificial Anodes or B.] Impressed Current) 3. Coated Steel 1. Istank double walled? Yes No Overrill Protection Provided? Yes No If yes, identify type: Split Containment? Yes No Overrill Protection Provided? Yes No If yes, identify type: Split Containment? Yes No Overrill Protection Provided? Yes No If yes, identify type: Split Containment? Yes No 7. Manual tank gauging (onty for tanks of 1.000 coallons or less) 8. Statistical Inventory Reconditation (SIR) 0. PIPING Construction 2. Cathodically Protected & Coated Steel (Check one: A.] Sactificial Anodes or B.] Impressed Current) 3. Coated Steel 4. Fiberglass 5. Other (specify): 9.	1. 🐹 Gas/Retail Sales 🛛 2. 🗌 Bułk Storage	3. Utility 4. Mercantile	/Commercial 5. 🗌 Industrial
1. 1. <td< td=""><td>6. Government 7. School</td><td>8. C Residential 9. Agricultura</td><td>al 10. Other (specify):</td></td<>	6. Government 7. School	8. C Residential 9. Agricultura	al 10. Other (specify):
1. Bare Steel 2. Cathodically Protected & Coated Steel (Check one: A	C. TANK CONSTRUCTION (check one)		
3. Coated Steel 4. Fiberglass 5. Other (specify):	1. Xi Bare Steel 2. Cathodically Protec	ted & Coated Steel (Check one: A., 🗍 Sa	rificial Anodes or B. C impressed Current)
6. Lined-Date: 7. Steel - Fiberglass Reinforced Plastic Composite 9. Unknown Approval: 1. Nat'l Std. 2. UL 3. Other: Is tank double walled? Yes No Overrill Protection Provided? Yes No If yes, identify type: Spill Containment? Yes No Tank leak detection method: 1. Automatic lank gauging 2. Vapor monitoring 3. Groundwater monitoring 4. Inventory control and tightness testing 5. Interstitial monitoring 3. Groundwater monitoring 7. Cathodically Protected & Coated Steel A. Sacrificial Anodes or B. Impressed Current) 8. Cathodically Protected & Coated Steel Check one: A. Sacrificial Anodes or B. Impressed Current) 9. Cated Steel 4. Fiberglass 5. Other (specify): 9. Unknown Vapor Recovery/Stage II 6. Flexible 5. Other (specify): Scerificial Anodes or B. Impressed Current) 9. Suction piping with check valve at tank 3. Suction piping with check valve at tank 1. Provati tan Odaylyr): <td>3. Coated Steel 4. Fiberglass</td> <td>5. Other (specify):</td> <td></td>	3. Coated Steel 4. Fiberglass	5. Other (specify):	
Approval: 1. Nat'l Std. 2. UL 3. Other: Is tank double walled? Yes No Overfill Protection Provided? Yes No If yes, identify type: Spill Containment? Yes No Tank leak detection method: 1. Automatic lank gauging 2. Vapor monitoring 3. Groundwater monitoring 7. Manual tank gauging (only for tanks of 1.000 pallons or less) 8. Statistical Inventory Reconciliation (SIR) D. PIPING CONSTRUCTION 1. Statistical Inventory Reconciliation (SIR) 9. Unknown 3. Coated Steel 4. Fiberglass 5. Other (Specify): 9. Unknown Vapor Recovery/Stage II 4. Fiberglass 5. Other (Specify): 2. Inversited promotioning 2. Interstitial monitoring 2. Statistical inventory Recovery/Stage 1. Pressurized promotiping with check valve at tank 3. Sction piping mith check valve at tank 1. Vapor monitoring 2. Interstitial monitoring 3. Groundwater monitoring 4. Tightness testing 5. Line keck valve at ati	6. 🔲 Lined- Date:	 Steel - Fiberglass Reinforced Plas 	ic Composite 9. 🗌 Unknown
Overfill Protection Provided? Yes No flyes. identify type: Spill Containment? Yes No Tank leak detection method: 1 Automatic lank gauging 2. Vapor monitoring 3. Groundwater monitoring 4. Inventory control and lightness testing 5. Interstitial monitoring 3. Groundwater monitoring 3. Coated Steel 2. Cathodically Protected & Coated Steel (Check one: A.] Sacrificial Anodes or B.] Impressed Current) 3. Coated Steel 4. Fiberglass 5. Other (Specify): 9. Unknown Vapor monitoring with check valve at lank 3. Coreational - Provide Date (moldsylyr): Piping System Type: 1. Presurized promy with A.] auto shutoff; B.] alarm or C.] flow restrictor 2. Suction piping with check valve at lank 3. Coundwater monitoring 4. Tightness testing 5. Line tesk detector 6. Not needed if waste oil Piping leak detection method: used if pressurized or check valve at lank: 1. Vapor monitoring 4. Sizetiat monitoring 3. Groundwater monitoring 4. Tightness testing 5	Approval: 1. Nat'l Std. 2. UL 3. Other:	······································	ls tank double walled? 🗌 Yes 🕅 No
Tank leak detection method: 1. □ Automatic lank gauging 2. □ Vapor monitoring 3. □ Groundwater monitoring 4. □ Inventory control and lightness testing 5. □ Interstitiat monitoring 3. □ Statistical Inventory Reconciliation (SIR) D. PIPING CONSTRUCTION 1. ▲ Bare Steel 2. □ Cathodically Protected & Coated Steel (Check one: A. □ Sacrificial Anodes or B. □ Impressed Current) 3. □ Coated Steel 4. □ Fiberglass 5. □ Other (Specify): 9. □ Unknown Vapor Recovery/Stage II 6. □ Flexible 5. □ Other (Specify): 0. CARS #: 4. □ Fiberglass 6. □ Flexible 5. □ Other (Specify): 0. CARS #: 9. □ System Type: 1. □ Pressurized prime with A. □ auto shutoff; B. □ atarm or C. □ flow restrictor 2. □ Inter stituat monitoring 2. □ Suction piping with check valve at lank 3. □ Suction piping with check valve at lank: 1. □ Vapor monitoring 2. □ Inter stituat monitoring 3. □ Groundwater monitoring 4. □ Tightness testing 5. □ Line teak detector 6. □ Not required 8. □ SIR Approval: 1. □ Nat'IStd. 2. □ Leaded 3. ☑ Chemical	Overfill Protection Provided? Yes No If y	es, identify type:	Spill Containment? Ves X No
D. PIPING CONSTRUCTION 1. K Bare Steel 2. Cathodically Protected & Coated Steel (Check one: A. Scrificial Anodes or B. Impressed Current) 3. Coated Steel 4. Fiberglass 5. Other (Specify): 9. Unknown Yapor Recovery/Stage II CARS #:	Tank leak detection method: 1. Automatic lank gau 4. Inventory control an 7 Manual tank gaugin	ging 2. Uvapor mor d tightness testing 5. Interstitial g (only for tanks of 1.000 gallons or less)	itoring 3. Groundwater monitoring nonitoring 8 Statistical Inventory Reconciliation (SIR)
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3. Coated Steel 4. Hoerglass 5. Other (Specify): 9. Unknown Vapor Recovery/Stage II . Fiberglass 6. Flexible 5. Other (Specify): CARS #: Piping System Type: 1. Pressurized promo with A. auto shutoff; B. alarm or C. flow restrictor 2. M Suction piping with check valve at lank 3. Suction piping with check valve at apump and inspectable 4. Not needed if waste oil Priping leak detection method: used if pressurized or check valve at tank: 1. Vapor monitoring 2. Interstitual monitoring 3. Groundwater monitoring 4. Tightness testing 5. Line leak detector 6. Not required 8. SIR Approval: 1. Nat'IStd. 2. Leaded 3. Unleaded 4. Fuel Oil 5. Gasohol 6. Other (Specify): 13. Chemical 14. Kerosene 15. Aviation 11. WastPuesde All (molday/yr): Has a site assessment been completed (see reverse side for details) Nol eniber All (all oi <	1. X Bare Steel 2. Cathodically Protect	ted & Coated Steel (Check one: A.] Sa	crificial Anodes or B. 🔲 Impressed Current)
Vapor Recovery/Stage II CARS # Cperational - Provide Date (mo/day/yr): Priping System Type: Pressurized piping with A auto shutoff; B Cperational - Provide Date (mo/day/yr): Provide Date Signed Provide Date Signed Provide Date Signed Provide Date Signed	3. Coated Steel 4. Fiberglass	5. Other (Specify):	9. 🔲 Unknown
4. Indergiss 6. Indextile 5. Indextile 1. Provide State (normal indextile for details) Piping System Type: 1. Presurized priping with A. auto shutoff; B. alarm or C. I for restrictor 2. M Suction piping with check valve at lank 3. Suction piping with check valve at lank 1. Vapor monitoring 4. Not needed if waste oil 3. Groundwater monitoring 4. Trightness testing 5. Line leak detector 6. Not required 8. SIR Approval: 1. Nat'I Std. 2. UL a Context state state 1. Vapor monitoring 2. Interstitiat monitoring 3. Groundwater monitoring 4. Trightness testing 5. Line leak detector 6. Not required 8. SIR Approval: 1. Nat'I Std. 2. Leaded 3. Unleaded 4. Fuel Oit 5. Gasohol 6. Other (Specify): 7. Empty* 8. Sand/Gravet/Sluny* 9. Unknown* 10. Premix 11. Wast/Used Motor Oil <	Vapor Recovery/Stage II) CAR5 ≓:
2. Mig System (pipe) 1. Intersteep (and the pipe) 1. Intersteep (and the pipe) 1. Intersteep (and the pipe) 2. Mig System (pipe) 1. Intersteep (and the pipe) 1. Intersteep (and the pipe) 1. Intersteep (and the pipe) 3. Intersteep (and the pipe) 1. Intersteep (and the pipe) 1. Intersteep (and the pipe) 1. Intersteep (and the pipe) 3. Intersteep (and the pipe) 1. Intersteep (and the pipe) 1. Intersteep (and the pipe) 1. Intersteep (and the pipe) 3. Intersteep (and the pipe) 1. Intersteep (and the pipe) 1. Intersteep (and the pipe) 1. Intersteep (and the pipe) 3. Intersteep (and the pipe) 1. Intersteep (and the pipe) 1. Intersteep (and the pipe) 1. Intersteep (and the pipe) 4. Intersteep (and the pipe) 1. Intersteep (and the pipe) 1. Intersteep (and the pipe) 1. Intersteep (and the pipe) 5. Intersteep (and the pipe) 1. Intersteep (and the pipe) 1. Intersteep (and the pipe) 1. Intersteep (and the pipe) 6. Intersteep (and the pipe) 1. Intersteep (and the pipe) 1. Intersteep (and the pipe) 1. Intersteep (and the pipe) 7. Intersteep (and the pipe) 7. Intersteep (and the pipe) 1. Intersteep (and the pipe) 1. Intersteep (and the pipe) 1. Intersteep (and the pipe) 1. Intersteep (and the pipe)	4. Protections 6. Pressure 5. Pressure 5. Pressure 5. Pressure 5. Pressure 5. Pressure 6.	with A auto shutoff: B alaum or C.	(Cyetational - Provide Date (moroayryr); I flow restrictor
Piping leak detection method: used if pressunzed or check valve at tank: 1. □ Vapor monitoring 2. □ Interstitual monitoring 3. □ Groundwater monitoring 4. □ Tightness testing 5. □ Line leak detector 6. □ Not required 8. □ SIR Approval: 1. □ Nat'l Std. 2. □ UL 3. □ Other: Is pipe double walleo? □ Yes Xi No E. TANK CONTENTS 1. □ Diesel 2. □ Leaded 3. Xi Unleaded 4. □ Fuel Oil 5. □ Gasohol 6. □ Other (Specify): 7. □ Empty* 8. □ Sand/Gravel/Sluny* 9. □ Unknown* 10. □ Premix 11. □ Waste/Used Motor Oil 13. □ Chemical 14. □ Kerosene 15. □ Aviation * If 7. 8. 9, or 13 is chosen, this tank is NOT PECFA eligible. Has a site assessment been completed (see reverse side for details) Not embety: A1, 2001 Yes □ No Owner or Operator Name (please print): Indicate whether: Ray Sum Struct Date Signed 0. □ Autor 0. □ Autor 0. □ Prentar 0. □ Autor 0. □ Operator Date Signed 1. □ Colease 0. □ Colease 0. □ Colease	2. Suction piping with check valve at lank 3.	uction piping with check valve at pump and	inspectable 4. ON Not needed if waste oil
3. □ Groundwater monitoring 4. □ Tightness testing 5. □ Line leak detector 6. □ Not required 8. □ SIR Approval: 1. □ Nat'l Std. 2. □ UL 3. □ Other: Is pipe double walleo? □ Yes No E. TANK CONTENTS 1. □ Dieset 2. □ Leaded 3. □ Other: Is pipe double walleo? □ Yes No 6. □ Other (Specify): 7. □ Empty* 8. □ Sand/Gravel/Sluny* 9. □ Unknown* 10. □ Premix 11. □ Waste/Used Motor Oil 13. □ Chemical 14. □ Kerosene 15. □ Aviation * If 7. 8.9, or 13 is chosen, this tank is NOT PECFA eligible. Has a site assessment been completed (see reverse side for details) Nod enibey: A1, a001 Yes<□ No	Piping leak detection method: used if pressurized or che	eck valve at tank: 1. 🗌 Vapor monitor	ng 2. 🗌 Interstitial monitoring
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E. TANK CONTENTS 1. Diesel 2. Leaded 3. Unleaded 4. Fuel Oil 5. Gasohol 6. Other (Specify):7. Empty* 8. Sand/Gravel/Sluny* 9. Unknown* 10. Premix 11. Waste/Used Motor Oil 13. Chemical14. Kerosene 15. Aviation (Indicate chemical name and number) * If 7. 8. 9, or 13 is chosen, this tank is NOT PECFA eligible. If Tank Closed, Abandoned or Out of Service, give date (mo/day/yr): NoV ember: Al., 2001 Owner or Operator Name (please print): Ray Saved SWom Owner or Operator Signature: Date Signed 11-21-01	Approval: 1. Nat'l Std. 2. UL 3. Other:		Is pipe double walleo? 🗌 Yes 🗶 No
1. [] Dieset 2. [] Leated 3. [] Galded 4. [] Pderon 5. [] Galded 6. [] Other (Specify): 7. [] Empty* 8. [] Sand/Gravel/Sluny* 9. [] Unknown* 10. [] Premix 11. [] Waste/Used Motor Oil 13. [] Chemical 14. [] Kerosene 15. [] Aviation * If 7. 8, 9, or 13 is chosen, this tank is NOT PECFA eligible. 14. [] Kerosene 15. [] Aviation * If 7. 8, 9, or 13 is chosen, this tank is NOT PECFA eligible. Has a site assessment been completed (see reverse side for details) Nov ember: AL Acol Owner or Operator Name (please print): [] Mathematication Roy Sand/Strom [] Owner or [] Operator Owner/or Operator Signature: [] Date Signed All Autonomy [] Autonomy [] Autonomy	E. TANK CONTENTS	Leaded 3 10 Linea	
11. Waste/Used Motor Oil 13. Chemical14. Kerosene 15. Aviation * If 7, 8, 9, or 13 is chosen, this tank is NOT PECFA eligible. If Tank Closed, Abandoned or Out of Service, give date (mo/day/yr): Has a site assessment been completed (see reverse side for details) Nov ember: Al., 2001 Yes No Owner or Operator Name (please print): Indicate whether: Indicate whether: Ray Sand StVoms Date Signed Owner/or Operator Signature: Date Signed Mittage II-21-01	6. O Other (Specify): 7. O	Empty 8. T Sand/	Grave/Sluny* 9. Unknown* 10. Premix
(Indicate chemical name and number) * If 7. 8, 9, or 13 is chosen, this tank is NOT PECFA eligible. If Tank Closed, Abandoned or Out of Service, give date (mo/day/yr): Now ember: Now ember: Now ember: Now ember: Now ender or Operator Name (please print): Ray Saynd Strom Owner or Operator Signature: Date Signed II-21-01	11. U Waste/Used Motor Oil 13. U	Chemical 14. 🗍 Keros	ene 15. C Aviation
If 7, 8, 9, or 13 is chosen, this tank is NOT PECFA eligible. If Tank Closed, Abandoned or Out of Service, give date (mo/day/yr): Nov ember A1, 2001 Were or Operator Name (please print): Ray Sand strom Owner or Operator Signature: Date Signed II-21-01	(Indicate	chemical name and number)	
Nov ember: Al., 2001 Yes No Owner or Operator Name (please print): Indicate whether: Ray Savid Strom Øver or Owner or Operator Signature: Date Signed II-21 - 01	IT /, δ, 9, or 13 is chosen, this tank is NUT PECFA eligible	e. (molday/yc): Has a site assessment	theen completed (see reverse side for details)
Owner or Operator Name (please print): Indicate whether: Roy Sandstvort Ø Owner or □ Operator Owner/or Operator Signature: Date Signed II-21 - 01 II-21 - 01	Nul eniber at 2001	X Yes No	
Ray Sandstvort Ø Owner or Operator Owner for Operator Signature: Date Signed II-21 - 01	Owner or Origination Name (places print):		Indicate whether:
Owner for Operator Signature: Date Signed II-al - 01	De C Ce di chi cana		
Owner/or Operator Signature: Date Signed II-21-01	Kay Janastvoru	<u> </u>	
- K tet 1 (11/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1	Owner/or Operator Signature:	01.7	Date Signed
	ATTAL AMARTI		11-21-01
MPORIANT: Failure to provide sufficient information may cause you to fall under additional regulations, and may	IMPORTANT: Failure to provide suffic	ient information may cause you to fall	under additional regulations, and may

APPENDIX B

Checklists for Tank Closure

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C.	. CLOSURE BY REMOVAL (continued)	<u>Ren</u> Ver	iover ified	Inspector Verified	<u>NA</u>
	11. Tank labeled in 2" high letters after removal but before being moved from site.	ΈY	□N		
	CONTENTS: VAPOR STATE: VAPOR FREEING TREATMENT: DATE				
	12. Tank vent hole (1/8" in uppermost part of tank) installed prior to moving the tank from site.	भाष्य			
	13. Inventory form ERS-7437 filed by owner with the Department of Commerce indicating closure by removal.	· D YRÍ			
_	14. Site security is provided while the excavation is open.	ΞY	ПN	ŏ	ي لکار
Ē	D. CLOSURE IN PLACE				
	<u>NOTE:</u> CLOSURES IN PLACE ARE ONLY ALLOWED WITH THE PRIOR WRITTEN APPROVAL OF THE DEPARTMENT OF COMMERCE OR LOCAL AGENT.				
	1. Product from piping drained into tank (or other container).	Πλ	ΠN		
	2. Piping disconnected from tenk and removed.	ΠY			
	3. All liquid and residue removed from tank using explosion proof pumps or hand pumps	Πλ	ΠN		
	4. All pump motors and suction hoses bonded to tank or otherwise grounded.	□у			
	5. Fill pipes, gauge pipes, vapor recovery connections, submersible pumps and other fixtures removed	ΠY			
	NOTE: DROP TUBE SHOULD NOT BE REMOVED IF THE TANK IS TO BE PURGED THROUGH THE USE OF AN EDUCTOR - EDUCTOR OUTPUT 12 FT. ABOVE GRADE.				
	 Vent lines left connected until tanks purged, Tank apanings temporarily plugged as veners with through vent 				
	7. Tank openings temporarily plugged so vapors exit through vent				
	9 Tank properly cleaned to remove all sludge and residue			Ц	Ц
	10 Solid inert material (sand, cyclone boiler slag, pea gravel recommended) introduced and tank filled				Ц
	11. Vent line disconnected or removed.				
	12. Inventory form filed by owner with the Department of Commerce indicating closure in place.			П	Н
Ē	. CLOSURE ASSESSMENTS				
	NOTE: DETERMINE IF A CLOSURE ASSESSMENT IS REQUIRED BY REFERRING TO ILHR 10.				
	1. Individual conducting the assessment has a closure assessment plan (written) which				
-	is used as the basis for their work on the site.	χ̈́Υ	ΠN		
	2. Do points of obvious contamination exist?	ΣY			
•	3. Are there strong odors in the soils?	ΣY			
	4. Was a field screening instrument used to pre-screen soil sample locations?	X Y		Ц	Ц
	6 Was the DNR notified of suspected or obvious contamination?	K∏ V⊒Y			Ц
	Agency, office and person contacted; WDNR RR. Dy Light & Rhumbord ex Office, To	ist Ka	7.52.	Dan elle	
	7. Contamination suspected because of: KiOdor □Soil Staining □Free Product □Sheen on Groundwa	ter JikFi	eld Inst	rument Test	
F.		_			
	Eductor Or Diffused Air Blower				
	Eductor driven by compressed air, bonded and drop tube left in place; vapors discharged minimum of 12	feet ab	ove gro	ound.	
	Diffused air blower bonded and drop tube removed. Air pressure not exceeding 5 psig.				
	Dry Ice Dry Ice introduced at 1.5 nounds per 100 gallons of tank canacity. Dry ice crushed and distributed over	the ares	test no	ssihletank a	roa
	Dry ice evaporated before proceeding.	ine gi ca	icoi po		a ca.
	Minert Gas (CO/2 or N/2) NOTE: INERT GASSES PRODUCE AN OXYGEN DEFICIENT ATMOSPHERE	THE T	ANK M	AY NOT BE	
	ENTERED IN THIS STATE WITHOUT SPECIAL EQUIPMENT.				
	Gas introduced through a single opening at a point near the bottom of the tank at the end of the tank op	osite th	e vent.		
	Tank atmosphere monitored for flammable or combustible vapor levels.	ice grou	nueu.		
	Calibrate combustible gas indicator. Drop tube removed prior to checking atmosphere. Tank space mo	nitored a	t bottor	n, middle an	d
	upper portion of tank. Readings of 10% or less of the lower flammable range (LEL) obtained before rem	oving ta	nk from	ground.	
G.	NOTE SPECIFIC PROBLEMS OR NONCOMPLIANCE ISSUES BELOW	Sec.	and	Adver	
ز *	He and owner dried address: in looking horea to consider the activity address when				
н.	REMOVER/CLEANER INFORMATION	<u> </u>			
	Polytost and Stand DIDIS			11-211-0	1
	Remarker Signature Person Certification N	la		Doto Sign	
1		0.		Date Sign	eu
I	A SPECTOR INFORMATION		2.	· · · · · · · · · · · · · · · · · · ·	
	darriel L. Christer Standed Christ	-, , , ,	25	143	
Ins	pector Name (print) Inspector Signature	Inspe	ctor Ce	rtification No	D.
	115 878-4499 L		123	12 2.	
FD	ID # For Location Where Inspection Performed Inspector Telephone Number	Date	Signed		
	TANK INVENTORY FORM ERS-7437 SIGNED BY THE OWNER MUST BE SUBMITTED WITH EACH	CLOSU	RE CHE	CKLIST	1
	OWNER				

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Complete one form each site closure.	n for	CHECK	LIST FOI	R TANK K ONE	CLOSURE	RETURN C Wisconsin D	OMPLE epartm	TED C		<u>ST TO:</u> æ
The information you provide mused by other government age programs [Privacy Law, s.15.0]	nay be ency)4 (1)(m)]	FOR	UNDE	RGROUN EGROUN	ND ND RM THAT	ERS Division Bureau of St P.O. Box 79 Madison W	n torage 1 69 53707	Fank R	egulation	1
A. IDENTIFICATION: (PI 1. Site Name Sandy 's Service	ease Pi	rint) Indicate w	/hether clo	sure is fo	r: Tank Syst Owner Name Revi Sandstry	em Tai	nk Only		Piping O	nly
Site Street Address (not P.O.	Box)	1 / ustor is	sin stale.		ner Street Address	E	alu	sua s		40 24 3
City Doury Lan 2	Village		Town of:		City Dawylaind	e 🗌 Town	n of:	State WIT	Zip (54	code 330
State Zip Wisconsur	Code 5석 용 3 6	i Cou	nty sug{25	Co	unty -	Telephor (ne No. (in)	clude ar	ea code)	
3. Closure Company Name (p	<u>ri</u> nt) / → r	1	Closu 4	ure Company	Street Address	Nr.				
Closure Company Telephone ((& K) 729 9	No. (inclue	de area code)	Closu	Ire Company	City, State, Zip Code	8/1				
4. Name of Company Perform Environmerital Tre	ing Closu	re Assessment	Asse	ssment Com	any Street Address, (City, State, Zip (பெர்ச 100	Code Duli	atta;	MN 53	5806
Telephone # (include area cod	e)	Certified Assessor	Name (print)	Ass	essor Signature	-1:	Assessor	Certifica	tion No.	
Tank ID #	Closure	Temp Clos	villa v cri		Tank Canacity	augr 116	0.1.5 (U	Close		emont
1. 284694	<u>Siosure</u>				$\frac{1 \text{ ank Capacity}}{5 < 0}$.5		Y Asses	
2. 2.34695	E				560	<u> </u>		<u> </u>	Y	
3 Not registered.	Ŋ				560	03	i	Q)	ſ	N
4. 284623	X				1000	03	· .	۲ الآ	ſ	□ N
5.							.		ŕ	□ N =.
6.									f .	□ N
* Indicate which product by 11-Waste Oil; 13-Chemica	numeño al (indica	c code: 01-Diese ite the chemical	t, 02-Leadeo name(s) or r	t, 03-Unlead iumber(s)	led; 04-Fuel Oil; 05	-Gasohol, 06-0	Other: _; 14-Ke	eroseme	; 10-P ; 15-Aviat	remix, tion.
Written notification was prov	vided to	the local agent 1	5 days in ad	vance of cl	osure date	••••••	<u>s</u>	Y		
Check applicable box at ri	ied bero	esponse to all s	tatements i	n Sections	в-е.	•••••	Rem	over	Inspecto	NA NA
B. TEMPORARILY OUT O	F SERV		obtained wh	hich			Veri	fied	Verified	!
is effective until (provide	e date)						ПΥ		П	П
1. Product Removed								<u> </u>		
a. Product lines drain	ned into t	tank (or other co tom of suction lin	ntainer) and	resulting lic	uid removed, AND					
c. All product remove	ed to with	nin 1" of bottom.		••••••	·····					
2. Fill pipe, gauge pipe,	tank truc	k vapor recover	y fittings, and	d vapor retu	m lines capped	·····	ΞY	ПN		· 🗖
 All product lines at the Dispensers/pumps left 	e islands ft in place	s or pumps locate e but locked and	oower disco	e are remov	ed and capped, OR	•••••				
5. Vent lines left open.										
6. Inventory form filed in	dicating	temporary closu	re				<u>Y</u>			
C. CLOSURE BY REMOVA	L									
1. Product from piping a 2. Piping disconnected f	rained in rom tank	to tank (or other	container).			••••••	۲]⊼ ∨آه			
3. All liquid and residue	removed	I from tank using	explosion p	roof pumps	or hand pumps		内 内Y			
4. All pump motors and s	suction h	noses bonded to	tank or othe	wise groun	ded	·····	Υ	ПN		
5. Fill pipes, gauge pipes	s, vapor		tions, subme	ETANK 19	ps and other fixture	s removed אור דעונא דעו				, 🗆
6. Vent lines left connect	ed until	tanks purged					- 100 C [7]Y			
7. Tank openings tempo	rarily plu	igged so vapors	exit through	vent			ΣY			
8. Tank atmosphere red	uced to a	10% of the lower	tiammabler	ange (LEL)	- <u>see Section F.</u>	ocked to	γ	ΠN		
prevent movement							[习Y			
10. Tank cleaned before t	eing rer	noved from site					ΞY	ПN		

- CONTINUE ON NEXT PAGE -

APPENDIX C

Bill of Lading and Tank Cleaning Summaries

e e e e e e e e e e e e e e e e e e e	BILL OF LADING		
WRR	520 (715	0 State Road 93, Ea 5) 834-9624 FAX (7	u Claire, WI 547(15) 836-8785
WRR Environmental Services Co., Inc.	- (·		,
ENERATOR CLAIMING VERY SMALL QUANTITY	Shippers #	Your P.O. No.	2019
(SIGNED)	All in	formation must be typed	or printed.
Generator's Name and Mailing Address DUSTY'S SERVICE Mai	1 to: Environ Troubleshoo	A. Profile # Dters	
ST HWY 35 DAIRYLAND WI 54836 10 2 Generator's Phone (715) 398~0528 Dt	02 S 29 Ave W #100 11uth MN 55806	B. State Generator's	ID
Fransporter 1 Company Name	4. USEPAID Number MNR00005820	C. State Transporter's	1D
Transporter 2 Company Name	6. US EPA ID Number	E. State Transporter's Photo	D 12/05
COMO LUBE & SUPPLIES INC		F. Transporter's Phor	e 218-722-2920
VRR Environmental Services Co., Inc. 200 State Road 93 au Claire, WI 54701	WID 990 829 475	H. Facility's Phone	34-9624
. US DOT Description (Including ProperShipping Name, Hazard (Class, ID Number, and Packing Group) 10. Co	ontainers 11. Total	2 I.
H.M.	(GASOLINE/FUEL OIL).	Type Quantity	VI/Vol Waste No.
R Q 3. UN1993. PGIII (D001)		12 D N 0, 0, 7, 9, 0	P D, 0, 0 1
	I		
		╀╾╾╺┯╾╋╼ _┯ ╸╺═╂╼╖╎╼ <u>┈</u> ╢╶ _╋ ╸┠	
		¹ →	
1	1	1 <u>1</u> 1 1 1 1	1
Additional Descriptions for Materials Listed Above a, 2002010011-1FA221 ERG 128		K. Handling Code for a₀ D018	Wastes Listed Above
Special Handling Instructions and Additional Informati	ion		
. Emergency Phone # 800-962-5417			
.GENERATOR'S CERTIFICATION: I hereby declare that shipping name and are classified, packed, marked, and to applicable international and national governmental re Resources.	the contents of this consignment are f labeled, and are in all respects in prope egulations and according to the require	ully and accurately descrier condition for transport b ments of the Wisconsin D	ped above by proper y highway according epartment of Natural
Inted/Typed Name & Position Title for Environmental Troublechoolers Dist	n's Signature	Electron Lel	Month Day Year
TRANSPORTER 1 Acknowledgement of Receipt of Mat inted/Typed Name & Position Title	erials Signature ()		Date
2 me Swanson	"rave there		
. TRANSPORTER 2 Acknowledgement of Receipt of Mat inted/Typed Name & Position Title	lerials // Signature		Date
			a contraction of the contraction
Discrepancy Indication Space			- <u></u>
FACILITY OWNER OR OPERATOR: Certification of rec as noted in Item 18.	eipt of hazardous materials covered by	this document except	
nted/Typed Name & Position Jille	Signature	1 1.	Month Day Year
Loron Sobia Superivitente	Att Class	Lato -	21/04/02
- CALLAND STREAM CONTRACTOR			

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รรัฐครามกระทั่งสามส์สรี สาม เมื่อมีต่างให้เมืองรัฐสามส์สร้างให้สามสะครไป สามรัฐสร้างสามส์มีสร้างสามส์สร้างสร้าง

a a shekara ta shekara ta ba sanan ƙwallon ƙasar ƙwallon ƙwallon ƙasar ƙwallon ƙasar ƙwallon ƙasar ƙwallon ƙas

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GENERATOR LAND DISPOSAL RESTRICTION NOTIFICATION

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and the second second	GENERATOR	LAND DISPOSAL RESTR	ICTION NOTIFICA	ΓΙΟΝ	
Generator N	Name: Dusty's	Service	Ship Date 12/31	/01	
Generator E	EPA #: Wiscons	sin VSQG	Manifest Doc. #:		
Address:	St Hwy	35	State Manifest #: BO	DL	
City, State,	Zip: Dairylan	nd WI 54836	Phone (715) 398-052	28	
Print Name	Soft Pe	terson Sign	ature <u>Acast Pa</u>	terson/ll	
Note: Generator must attach the original to the manifest & keep a copy of this form on file with their manifest.					
Note: The F00	actual numerical I-F005, F039, ar	l treatment standard(s) MUST nd California list waste(s).	be completed for wast	e codes	
WRR Lab	ID#: 2002	010011-1FA221			
Line	Waste	Waste	Treatment	40 CFR 268	
<u>Item #</u>	<u>Code #</u>	<u>Category</u>	Technology	Reference	
11-A		INDUSTRY			
	D001	IGNITABLE LIQUID TOC>10%	RORGS, CMBST	268.48	
		NON WASTEWATER			
	D018	BENZENE	NA	NA	
		NON WASTEWATER			
	Description	All C	ther Spent Solvent Wa	stes (mg/l)	

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		lbs. Tare					
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Ву							

APPENDIX D

Laboratory Analytical Results and Chain of Custody

Please Print Legibly) Company Name: <u>E -</u>	Nurrenprestat Timabiles	<u>bant (</u> m	י ה זו		10		TE:	M		1241 Bellevue Green Bay, WI 920-469-24	St., Suite 9 54302 436	525 Scien Madison, WI 608-232-3	ce Drive 53711 300	7 C.
Branch or Location:			ه			<u> </u>		INC.		FAX 920-469	-8827	FAX: 608-23	3-0502	
Project Contact:	- Prodewsparia							~ 7 7 4	~~~			the state of the		Page & of I
Telephone: <u>Kastak</u>	<u> 132- 2018</u>			CH	AIN		PF.	CU	510	DY		الى بەشە ئىلە ت	/	
Project Number:01	<u></u>					A=None	B=H	CL C=	H2SO4	Preservation C D=HN03 E	o <u>des</u> =EnCore F	F=Methanol G=NaOH	Ма	il Report To: Treff Ander.
Project Name:	use human a bara cat		}		FILTE	RED?	UM BISUL (YES/N	vo)		No I	10	Γ	Compa	ny: Environmental
Project State:	onsun >		'	PR	ESERVA	TION (CODE)*		[E]	AF	/ /		Address: _	Troubleshootens
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Data Package Opti	ions	Progra		Codes		,	Ì	/	- A	/ /		Comp		nis Payable
please circle if requ Results Only	lested)	UST RCRA	W. S	=Water S=Soil		,Å	9 ·	/ /				Address:	Evena.	en shout)
EnChem Levei III (S	ubject to Surcharge)	SDW/ NPDE	S C=C	A=Air Charcoal Riota		S.			8		/ /	/ <u>*</u> /		
EnChem Level IV (S	ubject to Surcharge)			=Sludge	, A	~	<u>_</u> /	[x).		/ /	/ / ភ	Mail Invoice To: 🦼	leraunth Ro	upplos ET
LABORATORY ID (Lab:Use Only)	FIELD ID	DATE	TIME	MATRIX		\$7 Z	3/ ~	γ_{β}	Ì ,		/ ^/	CLIENT COMMENTS		LAB COMMENTS (Lab Use Dnly)
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Rush Turnaround Tir	ne Requested (TAT) - Prelim	Relinqu	ished By		\		D	ate/l'ime	<u>. </u>	Received By	/	· · · · · · · · · · · · · · · · · · ·	Date/Time:	En Chem Project No.
(Rush TAT subject to a	approval/surcharge)	Dellarit	ishort P	<u>12 1. 1.</u>	<u>In q</u>	<u>x 1/ 4. 5</u>	<u> </u>	;:- /::. ato/T:=-=	<u></u>	Rook war	- <u>A</u> M	LAME OF	21.0 17.	2< <u>56855</u>
Transmit Prelim Rush	Results by (circle):		A		- AA	2 V 5 V 72			n (Lenin	Hecelveo-P	LAn.		zalev rime;	
Phone Fax	E-Mail	Relinqu	ished By				 D	ate/Time	ः । चडः प्र e:	Received B	<u>v:</u>	/L	Date/Time:	Sample Receipt pH
Phone #:		12600	Sec			<u> </u>		51.00	-	1.com	and see the	10.17 × 10 1	<u>et 1.5</u>	(Wet/Metale)
Fax #:		Relinqu	ished By	r:	_		D	Date/Time	9:	Received B	y:		Date/Time:	Cooler Custody Seal
C-Mail AUGress:	on HOLD are subject to	Relinau	lished Bv	<u>.</u>		— <u> </u>		ate/Time	e:	Received B	v:			Present (Not Present)
Samples	ou norn ale sunlect to	1											Jack Hille,	

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Corporate Office & Laboratory 1241 Bellevue Street Green Bay, WI 54302 920-469-2436 • FAX: 920-469-8827 800-7-ENCHEM



Madison Office & Laboratory 525 Science Drive Madison, WI 53711 608-232-3300 • Fax: 608-233-0502 888-5-ENCHEM

Client: ENVIRONMENTAL TROUBLESHOOT

- Analytical Report -

Project Name : FORMER SANDY'S SERVICE

Project Number: 01-1116

WI DNR LAB ID: 405132750

Collection Collection Sample No. Field ID Field ID Date Sample No. Date 815855-001 TANK #2; B-1 (7') 11/21/01 815855-002 TANK #3; B-1 (7') 11/21/01 815855-003 MEOH BLANK 11/21/01

Please visit our Internet homepage at: www.enchem.com

The "Q" flag is present when a parameter has been detected below the LOQ. This indicates the results are qualified due to the uncertainty of the parameter concentration between the LOD and the LOQ.

Soll VOC detects are corrected for the total solids, unless otherwise noted.

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample comments. Release of this final report is authorized by Laboratory management, as is verified by the following signature. Reported results shall not be reproduced, except in full, without the written approval of the lab. The sample results relate only to the analytes of interest tested.

11 A.S. Approval Signatur

Batch No. 815855 En Chem, Inc. Cooler Receipt	Log	
Project Name or ID_FCRAE R SANDUIS Semuse No. of Coolers:	Temps	s:RO1
A. Receipt Phase: Date cooler was opened:ByBy		•
1: Were samples received on ice? (Must be $\leq 6 \text{ C}$)	NO ²	
2. Was there a Temperature Blank?	NO	
3: Were custody seals present and intect? (Record on COC)YES	NO)	
4: Are COC documents present?	NO ²	·
5: Does this Project require quick turn around analysis?YES	NO	
6: Is there any sub-work?YES	NO NO	
7: Are there any short hold time tests?	Ø	
8: Are any samples nearing expiration of hold-time? (Within 2 days)	MQ>	Contacted by/Who
9: Do any samples need to be Filtered or Preserved in the lab?	NO	Contacted by/Who
B. Check-in Phase: Date samples were Checked-In: 1/- 2 7/ By:	//	متعقد متعقرين ويهون
1: Were all sample containers listed on the COC received and intact?	NO ²	NA
2: Sign the COC as received by En Chem. Completed	NO	
3: Do sample labels match the COC?	NO ²	
4: Check sample pH of preserved samples, (Not VOCs) CompletedYES	NO	A
5: Do samples have correct chemical preservation?	NO ²	NA
6: Are dissolved parameters field filtered?YES	NO ²	₩ D
7: Are sample volumes adequate for tests requested?	NO ²	
8: Are VOC samples free of bubbles >6mmYES	NO ²	
9: Enter samples into logbook. Completed	NO	
10: Place laboratory sample number on all containers and COC. Completed	NO	
11: Complete Laboratory Tracking Sheet (LTS). CompletedYES	NO	NA
12: Start Nonconformance form	NO	MA)
13: Initiate Subcontracting procedure. Completed	NO	₩D
14: Check laboratory sample number on all containers and COC	NO	NA
Short Hold-time tests:		

48 Hours or less Coliform (6 hrs) Hexavalent Chromium (24 Hrs) BOD Nitrite or Nitrate Low Level Mercury Ortho Phosphorus Turbidity Surfactants Sulfite En Core Preservation Color 7 days Flashpoint TSS Total Solids TDS Sulfide Free Liquids Total Volatile Solids Aqueous Extractable Organics- ALL Unpreserved VOC's Ash Footnotes 1 Notify proper lab group immediately. 2 Complete nonconformance memo.

Rev. 9/5/2001, Attachment to 1-REC-5. Subject to QA Audit.

Reviewed by/date Un 11 28 0.

Organic Data Qualifiers

- B Analyte is present in the method blank. Method blank criteria is evaluated to the laboratory method detection limit. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
- C Elevated detection limit (see Sample Narrative).
- D Analyte value from diluted analysis.
- E Analyte concentration exceeds calibration range (see Sample Narrative).
- F Surrogate results outside control criteria or not available due to sample dilution.
- H(n) Extraction or analysis performed "n" days past holding time.
- J Qualitative evidence of analyte present: concentration detected is greater than the method detection limit but less than the reporting limit.
- K Detection limit may be elevated due to the presence of an unrequested analyte ·
- N Spiked sample recovery not within control limits.
- P The relative percent difference between the two GC columns for detected concentrations was greater than 40%.
- Q The analyte has been detected between the limit of detection (LOD) and limit of quantitation (LOQ). The results are qualified due to the uncertainty of analyte concentrations within this range.
- U The analyte was not detected above the reporting limit.
- W Sample received with headspace.
- X See Sample Narrative.
- & Laboratory Control Spike recovery not within control limits.
- * Duplicate analyses not within control limits.
- SUB1 Assay was subcontracted to an approved lab.
- SUB2 Assay was subcontracted to En Chem Green Bay WI Cert. #405132750.

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Lab#: TestGroupID:

Comment:

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815855-002 GRO-S-ME TANK #3; B-I (7')

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Early and late eluting peaks were present outside the window of analysis.

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- Analytical Report -

Project Name : FORMER SANDY'S SERVICE

 Project Number :
 01-1116
 Client :
 ENVIRONMENTAL TROUBLESHOOTERS IN

 Field ID :
 TANK #2; B-1 (7')
 Report Date :
 11/29/01

 Lab Sample Number :
 815855-001
 Collection Date :
 11/21/01

 WI DNR LAB ID :
 405132750
 Matrix Type :
 SOIL

Inorganic Results

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Solids, percent	78.3				%		11/28/01	SM2540G	SM2540G	DJB
			Org	janic R	esult	S				
						Preser	vation Date :	11/28/01		
DIESEL RANGE ORGANICS -	SOIL		Pr	ep Method	I: WIM	OD DRO	Prep Date	: 11/27/01	Analyst:	
Analyte	Result	LOD	I		EQL	Units	Code	Analysis Date	Analysis Method	
DIESEL RANGE ORGANICS	1900				91	mg/kg		11/27/01	WI MOD [DRO
Blank spike	90.0				1.00	%recov		11/27/01		DRO
Blank spike duplicate	91.0			1	1.00	% recov		11/27/01	WIMOD	DRO
Blank	< 5.0				5.0	mg/kg		11/27/01	WIMOD	DRO
			Org	anic Re	esults	6				

PVOC + NAPHT - METHANOL PRESERVED SOIL Prep Method: SW846 5030B Prep Date: 11/28/01 Analyst: SMT Analysis Analysis Result LOD LOQ EQL Units Code Method Date Analyte a,a,a-Trifluorotoluene 101 %Recov 11/28/01 SW846 M8021B Benzene < 1000 1000 2400 ug/kg k 11/28/01 SW846 M8021B Ethylbenzene 1300 6900 3100 ug/kg k 11/28/01 SW846 M8021B Methyl-tert-butyl-ether < 1000 1000 2400 k 11/28/01 ug/kg SW846 M8021B Naphthalene 39000 1300 3100 11/28/01 SW846 M8021B ug/kg k Toluene < 1000 1000 2400 ug/kg k 11/28/01 SW846 M8021B 1,3,5-Trimethylbenzene 3100 20000 1300 k 11/28/01 SW846 M8021B ug/kg 1,2,4-Trimethylbenzene 3100 1300 ug/kg k 58000 11/28/01 SW846 M8021B Xylenes, -m, -p 20000 1300 3100 k 11/28/01 SW846 M8021B ug/kg Xylene, -o 1300 3100 11000 ug/kg k 11/28/01 SW846 M8021B

All soil results are reported on a dry weight basis unless otherwise noted.

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- Analytical Report -

Project Name :	FORMER SANDY'S SERV	/ICE		
Project Number :	01-1116		Client :	ENVIRONMENTAL TROUBLESHOOTERS IN
Field (D :	TANK #3; B-1 (7')		Report Date :	11/29/01
Lab Sample Number:	815855-002		Collection Date :	11/21/01
WI DNR LAB ID :	405132750	лэ.	Matrix Type :	SOIL

Inorganic Results

Test	Result	LOD	LOQ E	QL Units	Code	A nalysis Date	Prep Method	Analysis Method	Analyst	
Solids, percent	81.2			%		11/28/01	SM2540G	SM2540G	DJB	
Organic Results										
GASOLINE RANGE ORGANI	CS - SOIL/METH	IANOL	Prep M	ethod: WiN	IOD GRO	Prep Date	: 11/28/01 Analysis	Analyst: SMT Analysis		
Analyte	Result	LOD	LOQ	EQL	Units	Code	Date	Method	_	
Gasoline Range Organics	1800			120	mg/kg		11/28/01	WiMOD	GRO	
Blank Spike	99			1.0	%Recov		11/28/01	Wi MOD	GRO	
Blank Spike Duplicate	100			1.00	%Recov		11/28/01	WIMOD	GRO	
Blank	< 2.5			2.5	mg/kg		11/28/01	Wi MOD	GRO	

Organic Results

PVOC + NAPHT - METH	Prep Met	hod: SW	/846 5030B	Prep Date:	11/28/01	Analyst: SMT				
Analyte	F	Result LC		LOQ EQ		Units	Code	Analysis Date	Analysis Method	
a,a,a-Trifluorotoluene		100				%Recov		11/28/01	SW846 M8	8021B
Benzene	<	1000	1000	2400		ug/kg		11/28/01	SW846 M8	8021B
Ethylbenzene		9300	1200	2900		ug/kg		11/28/01	SW846 M8	021B
Methyl-tert-butyl-ether	<	1000	1000	2400		ug/kg		11/28/01	SW846 M8	0 21 B
Naphthalene		43000	1200	2900		ug/kg		11/28/01	SW846 M8	0 21 B
Toluene		1300	1200	2900		ug/kg	Q	11/28/01	SW846 M8	021B
1,3,5-Trimethylbenzene		25000	1200	2900		ug/kg		11/28/01	SW846 M8	021B
1,2,4-Trimethylbenzene		68000	1200	2900		ug/kg		11/28/01	SW846 M8	021B
Xylenes, -m, -p		27000	1200	2900		ug/kg		11 <i>1</i> 28/01	SW846 M8	021B
Xylene, -o		14000	1200	2900		ug/kg		11/28/01	SW846 M8	021B

All soil results are reported on a dry weight basis unless otherwise noted.

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- Analytical Report -

Project Name : FORMER SANDY'S SERVICE

Project Number: 01-1116

Field ID : MEOH BLANK Lab Sample Number : 815855-003

WI DNR LAB ID: 405132750

Client : ENVIRONMENTAL TROUBLESHOOTERS IN Report Date : 11/29/01 Collection Date : 11/21/01 Matrix Type : METHANOL

Organic Results

GASOLINE RANGE ORGAN	METHANC	DL	Prep Met	hod: Wil	MOD GRO	Prep Date:	11/28/01	Analyst: SMT	
Analyte	F	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Gasoline Range Organics	<	2500			2500	ug/L		1 1/29/01	Wi MOD GRO
Blank Spike		99			1.0	%Recov		11/29/01	Wi MOD GRO
Blank Spike Duplicate		100			1.00	%Recov		11/29/01	WiMOD GRO
Blank	<	50			50	ug/l.		11/29/01	WiMOD GRO
			_	、 ·	D				

Organic Results

PVOC + NAPHT METHANOL				Prep Met	hod: SW	846 5030B	Prep Date:	1 1/28/01	Analyst: SMT
Analyte	F	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
a,a,a-Trifluorotoluene		100				%Recov		11/29/01	SW846 M8021B
Benzene	<	25	25	60		ug/i		11/29/01	SW846 M8021B
Ethylbenzene	<	25	25	60		ug/l		11/29/01	SW846 M8021 B
Methyl-tert-butyl-ether	<	25	25	60		ug/l		1 1/29/01	SW846 M8021B
Naphthalene	<	25	25	60		ug/l		11/29/01	SW846 M8021B
Toluene	<	25	25	60		ug/ł		11/29/01	SW846 M8021B
1,3,5-Trimethylbenzene	<	25	25	60		ug/l		11/29/01	SW846 M8021 B
1,2,4-Trimethylbenzene	<	25	25	60		ug/l		11/29/01	SW846 M8021B
Xylenes, -m, -p	<	25	25	60		ug/l		11/29/01	SW846 M8021 B
Xylene, -o	<	25	25	60		ug/!		11/29/01	SW846 M8021 B



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Scott McCallum, Governor Darrell Bazzell, Secretary William H. Smith, Regional Director Northern Region Headquarters 107 Sutliff Ave. Rhinelander, Wisconsin 54501 Telephone 715-365-8900 FAX 715-365-8932 TTY 715-365-8957

February 5, 2002

Sandy's Service Attn: Ray Sandstrom 16569 S STH 35 Dairyland, WI 54830

> Subject: Sandy's Service, 16569 STH 35 (Star Rt 3), Dairyland, WI WDNR BRRTS # 03-16-286908

Dear Mr. Sandstrom:

On November 21, 2001, Amber Wallgren of Environmental Troubleshooters, notified the Wisconsin Department of Natural Resources (WDNR) that diesel and unleaded gasoline contamination had been detected at the site listed above.

Based on the information submitted to the WDNR, we believe you are responsible for restoring the environment at the referenced site under Section 292, Wisconsin Stats., known as the hazardous substances spills law.

This letter describes your legal responsibilities, explains what you need to do to investigate and clean up the contamination, and provides you with information about cleanups, environmental consultants, possible financial assistance, and working cooperatively with the WDNR and Department of Commerce (Commerce).

Legal Responsibilities:

Your legal responsibilities are defined both in statute and in administrative codes. The hazardous substances spill law, Section 292.11 (3) Wisconsin Statutes, 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.
- Wisconsin Administrative Code chapters NR 700 through NR 749 establish requirements for emergency and interim actions, public information, site investigations, design and operation of remedial action systems, and case closure. Chapter NR 708 includes provisions for immediate actions in response to limited contamination. Wisconsin Administrative Code chapter NR 140 establishes groundwater standards for contaminants that reach groundwater.

www.dnr.state.wi.us www.wisconsin.gov Quality Natural Resources Management Through Excellent Customer Service


Steps to Take:

The longer contamination is left in the environment the farther it can spread and the more it may cost to clean up. Quick action may lessen damage to your property and neighboring properties and reduce your costs in investigating and cleaning up the contamination. To ensure that your cleanup complies with Wisconsin's laws and administrative codes, you should hire a professional environmental consultant who understands what needs to be done. These are the <u>first</u> three steps to take:

- 1. Within the next **30 days**, you must submit written verification (such as a letter from the consultant) that you have hired an environmental consultant.
- 2. Within the next **60 days**, your consultant must submit a workplan and schedule for the investigation. The consultant must follow the WDNR administrative codes and technical guidance documents. To facilitate prompt agency review of your reports, your consultant should use the site investigation and closure formats which are available on-line at www.dnr.state.wi.us.

Once an investigation has established the degree and extent of contamination involved at your site, your consultant will be able to determine whether Commerce or the WDNR has authority over the case.

- 3. Within 30 days of completion of the site investigation, you or your consultant must provide a brief report at least every 90 days per NR 724.13(3). Quarterly reports need only include one or two pages of text, plus any relevant maps and tables. Should conditions at your site warrant, we may require more frequent contacts.
- 4. Sites where discharges to the environment have been reported are entered into the Bureau for Remediation and Redevelopment Tracking System (BRRTS), a version of which appears on the WDNR's internet site. You may view the information related to your site at any time (<u>http://www.dnr.state.wi.us/org/aw/rr/brrts</u>) and use the feedback system to alert us to any errors in the data.

If you want a formal response from the agency on a specific submittal, please be aware that a review fee is required in accordance with s. NR 749, Wis. Adm. Code. If a fee is not submitted with your reports, you should proceed under the advice of your consultant to complete the site investigation to maintain your compliance with the spills law and chs. NR 700 through NR 749. **Do not delay the investigation of your site by waiting for an agency response**. We have provided detailed technical guidance to environmental consultants. Your consultant is expected to know our technical proc edures and administrative codes and should be able to answer your questions on meeting cleanup requirements.

All correspondence regarding this site should be sent to:

Danielle Lancour Remediation and Redevelopment Program Wisconsin Department of Natural Resources 107 Sutliff Ave. Rhinelander, WI 54501

Unless otherwise requested, please send only one copy of plans and reports. To speed processing, correspondence should reference the BRRTS and FID numbers (if assigned) shown at the top of this letter.

Additional Information for Site Owners:

Information to help you select a consultant, and materials on controlling costs, understanding the cleanup process, and choosing a site cleanup method are enclosed. In addition, *Fact Sheet 2, Voluntary Party Remediation and Exemption from Liability* provides information on obtaining the protection of limited liability under s. 292.15, Stats.

Financial Assistance:

Reimbursement from the Petroleum Environmental Cleanup Fund (PECFA) is available for some of the costs of cleaning up contamination from eligible petroleum storage tanks. Please refer to the enclosed information sheet entitled "*Information About PECFA*" for more information on eligibility and regulations for this program. For more information on the PECFA program, please call the Department of Commerce at 608-266-2424 or visit their web site at: http://www.commerce.state.wi.us/COM/Com-Petroleum.html.

Funding is also available for cleanup at some drycleaning sites. Call Jim Hosch at (715) 392-0802 for more information on eligibility or visit the RR web site.

<u>http://www.dnr.state.wi.us/org/aw/rr</u>. You may also contact this person for all other questions regarding this letter.

Thank you for your cooperation.

Sinceraly, ancour

Danielle Lancour Bureau for Remediation & Redevelopment

cc: Amber Wallgren, Environmental Troubleshooters

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APPENDIX F/HEALTH AND SAFETY PLAN

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Safety Plan Information

Company Name:	METCO	
Contact Information:	Jason Powell 709 Gillette Street, Suite 3 La Crosse, WI 54603 (608) 781-8879	
	Site Information	
METCO Project #:	C2458	
Site Name: Site address:	Sandy's Service (Former) 16571 State Highway 35 Dairyland, WI 54830	
County:	Douglas	
WDNR Contact:	Ralph Smith 101 S Webster Street Madison, WI 53707 (608) 261-6543	
WDNR BRRTS Case #:	03-16-286908	

Purpose of Activity (Check all that apply)

Petroleum Release Investigation	X
Ag Chemical Release Investigation	
Install Soil Borings/Monitoring Wells	Х
Tank/Piping Removal	
Tank/Piping Closure Assessment	
Phase 1/Phase 2 Environmental Site Assessment	
Install Remedial System	
Other	

Tank Information			
Tank Size (Gallons)	Contents	Age	
1,000	Unleaded Gasoline	Removed (2001)	
560	Unleaded Gasoline	Removed (2001)	
560	Diesel Removed (2001)		
560	Diesel	Removed (2001)	

Potential Health and Safety Hazards (Check all that apply)

Handling/Transfer of Product (Fire, Explosions)	
General Construction (Electrical Hazards, Physical Injury)	X
Confined Space Entry (Explosions)	
Heavy Equipment	Х
Noise	X
Underground and Overhead Utilities	X
Site Traffic	X
Oxygen Depletion	
Excavation (Cave Ins, Falls, Slips)	
Poisonous Plants	
Snakes, Insects, Rodents	
Heat, Cold	X
Other	

Evaluation of Chemical Hazards

Name	Physical State	Route of Entry	TWA/STEL (ppm)	Symptoms of Exposure
Gasoline	Vapor/Liquid	Inhalation/Skin	300/500	Irritation, Nausea, Vomiting, Dizziness, Unconsciousness
Diesel Fuel	Vapor/Liquid	Inhalation/Skin	100/None	Irritation, Nausea, Vomiting, Dizziness, Unconsciousness

On-Site Personnel Responsibilities

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- 1. Ron Anderson
- 2. Jason Powell
- 3. Eric Dahl
- 4. Jon Jensen
- Matt Michalski
 Bryce Kujawa
- Site Project Manager Hydrogeologist Staff Scientist Hydrogeologist Hydrogeologist

Senior Project Manager

Responsibility

Method to Control Potential Heath and Safety Hazards

Monitoring Instruments	
Photoionization Detector (PID)	Х
Flame Ionization Detector (FID)	
Combustible Gas Indicator	
Four Gas Meter	
Detector Tubes	

Action Levels 0-10% LEL (No Explosion Hazard) Oxygen Deficient (Less Than 21%) Oxygen Deficient (Less Than 19%)

<u>Action</u> None Notify Health & Safety Officer Evacuate

Personal Protective Equipment

Minimum Requirements:

1. Hardhat

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- 2. Safety Glasses/Goggles
- 3. Steel Toe Shoes or Boots
- 4. Flame Retardant Coveralls
- 5. Hearing Protection (Muffs or Ear Plugs)
- 6. Nitrile Gloves

Is additional PPE required? No

Additional Requirements

Uncoated Tyvek Coveralls	
Saranex Tyvek Coveralls	
Rubber Boots	
Overboots	
Surgical Inner Gloves	
Butyl Neoprine/Nitrile Outer Gloves	
Full Face Respirators	
Type of Cartridge:	
SCBA/SAR	
Other	

Level of Protection Designated: D

Site Control

Work Zones

Support Zone: Beyond a 25 foot radius of drilling or excavation and upwind of operation. Contamination Reduction Zone: Between 15 and 25 foot radius of drilling or excavation. Exclusion Zone: Within 15 foot radius of of drilling or excavation.

Site Entry Procedure: Obtain all approval and instructions from project manager.

Decontamination Procedures:

Personnel: Remove protective equipment and wash hands prior to eating. Equipment: Wash with brush and Alconox soap, rinse with fresh tap water.

Investigation Derived Material Disposal:

Stockpiling: The soils will be placed on and covered with plastic. The client will determine the stockpile location, but will have to be approved by the project manager. Soils will be disposed of by the most efficient and cost effective approved method.

DOT drums: Label drums as to content and date filled. Routinely inspect drums for leakage or spills. Place together in area where movement is at minimum.

Work Limitations: Daylight hours. No eating, drinking, or smoking in the exclusion zone or contamination reduction zone.

Employee Limitations:

Site Resources:

Shower Water Supply

Contingency Planning

Emergency Contacts	Phone Number
Ambulance: Dairyland	911
Hospital Emergency Room: Spooner Health System	(715) 635-2111
Poison Control Center: Milwaukee	(800) 222-1222
Police: Douglas County	911
Fire Department: Dairyland	911
Hazardous Waste Response Center: Wisconsin EPA	(800) 943-0003 (800) 424-8802

Location Address: 16571 State Highway 35, Dairyland, WI 54830

Hospital: Spooner Health System 819 Ash Street Spooner, WI 54801 (715) 635-2111

Emergency Route:

Head southwest on WI-35 S toward School Rd	6.8 mi
Turn left onto Springbrook Trail	0.4 mi
Turn right onto Riverside Cutoff Rd	2.5 mi
Turn left onto WI-77 E	16.3 mi
Turn right onto Co Hwy K	15.7 mi
Turn right onto River St	0.3 mi
Turn right onto Ash St	0.4 mi

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 manager.
- 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 Manager: Jason Powell	work cell	(608) 781-8879 (608) 385-1467
METCO Safety Officer: Brian Hora	work cell	(800) 236-0448 (608) 604-2933
METCO Corporate Contact: Paul Knower	work cell	(800) 236-0448 (608) 604-2931
Client Contact: Ray Sandstrom		(612) 801-9747

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. Emergency Phone Numbers
- 10. Know Where the Site Safety Plan Is

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<u>US Hospital Finder (/)</u>[™]: Directions

From: 16571 State Highway 35, Dairyland, WI



http://www.ushospitalfinder.com/direction/Spooner-Health-System-Spooner-WI

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<u>US Hospital Finder (/)</u>™: Directions

From: 16571 State Highway 35, Dairyland, Wi



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<u>US Hospital Finder (/)</u>™: Directions

From: 16571 State Highway 35, Dairyland, WI



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<u>US Hospital Finder (/)</u>™: Directions

From: 16571 State Highway 35, Dairyland, WI



APPENDIX G/QUALIFICATIONS

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Ronald J. Anderson, P.G.

Professional Titles

- Senior Hydrogeologist
- Project Manager

Credentials

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

Education

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

Post-Graduate Education

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

Work Experience

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

Jason T. Powell

Professional Title

Staff Scientist

Credentials

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

Education

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

Post-Graduate Education

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

Work Experience

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

Eric J. Dahl

Professional Title

• Hydrogeologist

Credentials

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

Education

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

Post-Graduate Education

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

Work Experience

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

Thomas P. Pignet, P.E.

Professional Titles

- Chemical Engineer
- Industrial Engineer

Credentials

Licensed Professional Engineer in Wisconsin

Education

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

Post-Graduate Education

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

Work Experience

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

Jon Jensen

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Professional Title

Staff Scientist

Credentials

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

Education

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

Work Experience

With METCO since July, 2014 as Staff Scientist. Duties include: soil and groundwater sampling, operation and maintenance of remedial systems, Geoprobe projects (oversight, direction, and sampling), site mapping, data reduction and analysis, and reporting.

Matthew C. Michalski

Professional Title

• Hydrogeologist

Credentials

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

Education

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

Post-Graduate Education

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

Work Experience

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

Bryce Kujawa

Professional Title

Staff Scientist

Credentials

- Registered through the Wisconsin Department of Safety and Professional Services as a PECFA consultant (#17138).
- Member of the Geological Society of America

Education

Includes B.S. in Geology from the University of Wisconsin-Eau Claire. Applicable courses successfully completed include Hydrogeology, Contaminant Hydrogeology, Field Geology I and II, Mineralogy and Petrology I and II, Sedimentology and Stratigraphy, Petroleum and Economic Geology, Earth History, Physical Geology, Structural Geology, Computers in Geology, Geographic Informational Systems, Global Environmental Change, and General Chemistry.

Work Experience

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

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

ID - inside-diameter

LAST - Leaking Aboveground Storage Tank

LUST - Leaking Underground Storage Tank

MSL - Mean Sea Level

MTBE - Methyl-tert-butyl ether

MW - Monitoring Well

NIOSH - National Institute for Occupational Safety & Health

NR - Natural Resources

OD - outside-diameter

PAH - Polynuclear Aromatic Hydrocarbons

PAL - Preventive Action Limits

Pb - Lead

PECFA - Petroleum Environmental Cleanup Fund

PID - Photoionization Detector

POTW - Publicly Owned Treatment Works

ppb ug/kg - parts per billion

ppm mg/kg - parts per million

psi - pounds per square inch

PVC - Polyvinyl Chloride

PVOC - Petroleum Volatile Organic Compounds

RAP - Remedial Action Plan

scfm - standard cubic feet per minute

SVE - Soil Vapor Extraction

USCS - Unified Soil Classification System

USGS - United States Geological Survey

UST - Underground Storage Tank

VOC - Volatile Organic Compounds

WDNR - Wisconsin Department of Natural Resources

WPDES - Wisconsin Pollutant Discharge Elimination System