State of Wisconsin
Department of Natural Resources
dnr.wi.gov

Notification For Hazardous Substance Discharge (Non-Emergency Only)

Form 4400-225 (09/13)

Emergency Discharges / Spills should be reported via the 24-Hour Hotline: 1-800-943-0003

Notice: Hazardous substance discharges must be reported immediately according to s. 292.11 Wis. Stats. Non-emergency hazardous substance discharges may be reported by telefaxing or e-mailing a completed report to the Department, or calling or visiting a Department office in person. If you choose to notify the Department by telefax or by email, you should use this form to be sure that all necessary information is included. However, use of this form is not mandatory. Under s. 292.99, Wis. Stats., the penalty for violating the reporting requirements of ch. 292 Wis. Stats., shall be no less than $10 nor more than $5000 for each violation. Each day of continued violation is a separate offense. It is not the Department's intention to use any personally identifiable information from this form for any purpose other than program administration. However, information submitted on this form may also be made available to requesters under Wisconsin's Open Records Law (ss. 19.31 – 19.39, Wis. Stats.).

Confirmatory laboratory data should be included with this form, to assist the DNR in processing this Hazardous Substance Release Notification.

Complete this form. **TYPE or PRINT LEGIBLY.** NOTIFY appropriate DNR region (see next page) **IMMEDIATELY** upon discovery of a potential release from **(check one)**:

- ☐ Underground Petroleum Storage Tank System (additional information may be required for Item 6 below)
- ☐ Aboveground Petroleum Storage Tank System
- ☐ Dry Cleaner Facility
- ☒ Other - Describe: PAHs and Road Salt Storage

ATTN DNR: **R & R Program Associate** Date DNR Notified: 10/10/2016

1. Discharge Reported By

Name	Firm	Phone No. (include area code)
Timothy E. Wimmer, P.G.	The Sigma Group, Inc	(414) 643-4139

Mailing Address	Email Address
1300 W. Canal Street, Milwaukee, WI 53233	twimmer@thesigmagroup.com

2. Site Information

Name of site at which discharge occurred. Include local name of site/business, not responsible party name, unless a residence/vacant property. Former Jefferson County Highway Garage

Location: Include street address, not PO Box. If no street address, describe as precisely as possible, i.e., 1/4 mile NW of CTHs 60 & 123 on E side of CTH 60. 141 W. Woolcock Street

Municipality: (City, Village, Township) Specify municipality in which the site is located, not mailing address/city.
Jefferson

County:	Legal Description:	WTM:
Jefferson	____ 1/4 ____ 1/4 Sec ____ Tn ____ Range ____ ○E ○W	X _____ Y _____

3. Responsible Party (RP) and/or RP Representative

Responsible Party Name: Business or owner name that is responsible for cleanup. If more than one, list all. Attach additional pages as necessary.

Jefferson County

☐ Reported in compliance with s. 292.11(2), Wis. Stats., by a local government exempt from liability under s. 292.11(9)(e), Wis. Stats. For more information see **http://dnr.wi.gov/topic/Brownfields/Liability.html**.

Contact Person Name (if different)	Phone Number	Email Address
Mr. Ben Wehmeier - Jefferson County Administrator	(920) 674-7101	BenjaminW@jeffersoncountywi.gov

Mailing Address	City	State	ZIP Code
311 S. Center Ave., Room 111	Jefferson	WI	53549

Property owner if Different From RP: Business or owner name that is responsible for cleanup. If more than one, list all. Attach additional pages as necessary.

Contact Person Name (if different)	Phone Number	Email Address

Mailing Address	City	State	ZIP Code

(continued)

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4. Hazardous Substance Information

Identify hazardous substance discharged (check all that apply):

- ☐ VOC's
- ☒ PAH's
- ☐ Metals (specify): _____
- ☐ Arsenic
- ☐ Chromium
- ☐ Cyanide
- ☐ Lead
- ☐ PCB's
- ☐ Diesel
- ☐ Fuel Oil
- ☐ Gasoline
- ☐ Hydraulic Oil
- ☐ Jet Fuel
- ☐ Mineral Oil
- ☐ Waste Oil
- ☐ Petroleum-Unknown Type
- ☐ PERC (Dry Cleaners)
- ☐ RCRA Hazardous Waste
- ☐ Leachate
- ☐ Fertilizer
- ☐ Pesticide/Herbicide/Insecticide(s)
- ☒ Other (specify): Sodium, Chloride
- ☐ Unknown

5. Impacts to the Environment Information

Enter "K" for known/confirmed or "P" for potential for all that apply.

- ___ Air Contamination
- ___ Co-Contamination (Petroleum & Non-Petroleum)
- ___ Contamination Within 1 Meter of Bedrock
- ___ Contaminated Private Well
- ___ Contaminated Public Well
- ___ Contamination in Fractured Bedrock
- ___ Sanitary Sewer Contamination
- ___ Contamination in Right of Way
- ___ Fire Explosion Threat
- ___ Free Product
- K Groundwater Contamination
- ___ Off-Site Contamination
- ___ Other (specify): _____
- K Soil Contamination
- ___ Storm Sewer
- ___ Surface Water Contamination
- ___ Within 100 ft of Private Well
- ___ Within 1000 ft of Public Well

Contamination was discovered as a result of:

- ☐ Tank closure assessment — Date
- ☒ Site assessment — Date 03/03/2015
- ☐ Other - Describe: _____ — Date

Lab results: ☐ Lab results will be faxed upon receipt ☐ Lab results are attached

Additional Comments: Include a brief description of immediate actions taken to halt the release and contain or cleanup hazardous substances that have been discharged.

Phase II report provided as attachement.

6. Federal Energy Act Requirements (Section 9002(d) of the Solid Waste Disposal Act (SWDA))

For all confirmed releases from UST's occurring after 9/30/2007 please provide the following information:

☐ Does not apply.

Source

- ☐ Tank
- ☐ Piping
- ☐ Dispenser
- ☐ Submersible Turbine Pump
- ☐ Delivery Problem
- ☐ Other (specify): _____

Cause

- ☐ Spill
- ☐ Overfill
- ☐ Corrosion
- ☐ Physical or Mechanical Damage
- ☐ Installation Problem
- ☐ Other (does not fit any of above)
- ☐ Unknown

Contact information to report non-emergency releases in DNR's five regions are as follows:

Northeast Region (FAX: 920-662-5197); Attention -- R&R Program Associate: DNRRRNER@wisconsin.gov

Brown, Calumet, Door, Fond du Lac **(except City of Waupun - see South Central Region)**, Green Lake, Kewaunee, Manitowoc, Marinette, Marquette, Menominee, Oconto, Outagamie, Shawano, Sheboygan, Waupaca, Waushara, Winnebago counties

Northern Region (FAX: 715-623-6773); Attention -- R&R Program Associate: DNRRRNOR@wisconsin.gov

Ashland, Barron, Bayfield, Burnett, Douglas, Forest, Florence, Iron, Langlade, Lincoln, Oneida, Polk, Price, Rusk, Sawyer, Taylor, Vilas, Washburn counties

South Central Region (FAX: 608-273-5610); Attention -- R&R Program Associate: DNRRRSCR@wisconsin.gov

Columbia, Dane, Dodge, Fond du Lac **(City of Waupun only)**, Grant, Green, Iowa, Jefferson, Lafayette, Richland, Rock, Sauk, Walworth counties

Southeast Region (FAX: 414-263-8550); Attention -- R&R Program Associate: DNRRRSER@wisconsin.gov

Kenosha, Milwaukee, Ozaukee, Racine, Washington, Waukesha counties

West Central Region (FAX: 715-839-6076); Attention -- R&R Program Associate: DNRRRWCR@wisconsin.gov

Adams, Buffalo, Chippewa, Clark, Crawford, Dunn, Eau Claire, Jackson, Juneau, LaCrosse, Marathon, Monroe, Pepin, Pierce, Portage, St. Croix, Trempealeau, Vernon, Wood counties

October 13, 2016 Project Reference #15216

Ms. Wendy Weihemuller
Wisconsin Department of Natural Resources
South Central Region
3911 Fish Hatchery Road
Fitchburg, WI 53711

RE: Hazardous Substance Discharge Notification
Former Jefferson County Highway Department Complex
Located at 141 W. Woolcock Street, Jefferson, Wisconsin

Dear Ms. Weihemuller:

The Sigma Group, Inc. (Sigma) is submitting the attached Notification for Hazardous Substance Discharge Form 4400-225 on behalf of Jefferson County for the property identified as the former Jefferson County Highway Department Complex located at 141 West Woolcock Street, in Jefferson, Wisconsin (subject site). We have also enclosed a copy of the Phase I Environmental Site Assessment (Phase I report dated February 12, 2015 and a copy of the March 3, 2015 Phase II Environmental Site Assessment (Phase II) report.

PHASE I SUMMARY

As documented in the February 2015 Phase I report, the subject property is comprised of eight parcels of land comprising 20.55 acres of land. The parcels (Tax Key #241-0614-0231-016 (4.5-acres), #241-0614-0231-017 (0.20- acres), #241-0614-0231-021 (1.50-acres), #241-0614-0231-018 (4.90-acres), #241-0614-0231-019 (0.37-acres), #241-0614-0231-020 (1.41-acres), #241-0614-0224-015 (5.47-acres) and #241-0614-0231-015 (1.12-acres) are located at 141 West Woolcock Street in the City of Jefferson, Jefferson County, Wisconsin. The subject property also historically utilized the mailing address of 631 North Watertown Street. At the time of this assessment, the subject property was improved with an administrative office, a maintenance and vehicle repair shop consisting of four adjoined buildings, four cold storage buildings, a heated truck storage building and three salt/sand storage buildings. Historically, the subject property was occupied by the Vaughn Manufacturing Company (a manufacturer of wagons, harrows & bob sleds), the Waverly Manufacturing Company (a manufacturer of motorcycles), the Union Upholstering Company (manufacturer of couches and chairs), the Fort Atkinson Canning Company (canning factory) and the Jefferson County Highway Department. At the time of this assessment, the subject property was occupied by the Jefferson County Highway Department which utilized the subject property for the fueling, repair and storage of county highway equipment and the storage of winter road salt/sand.

The subject property was historically utilized for the repair, maintenance and fueling of county highway equipment. Operations were performed with the storage and use of hazardous substances and the generation of hazardous waste. Additionally, Sigma observed a section of grated floor (catch basin) in the northern most portion of the vehicle maintenance building. The catch basin discharged to the ground. A release from historical operations may have negatively impacted the subject property. A review of a Sanborn Fire Insurance map dated 1914 indicated that a portion of the subject property was historically utilized for the manufacture of motorcycles and the southern portion of the subject property (across Woolcock Street) utilized for the manufacture of couches and chairs. Manufacturing operations were likely performed with the storage and use of hazardous substances and the generation of hazardous waste. A release from historical manufacturing operations may have negatively impacted the subject.

Based on the Phase I, Sigma identified the following on-site Recognizable environmental conditions (RECs):

- The subject property was historically utilized for the repair, maintenance and fueling of county highway equipment. Operations were performed with the storage and use of hazardous substances and the generation of hazardous waste. Additionally, Sigma observed a section of grated floor (catch basin) in the northern most portion of the vehicle maintenance building. The catch basin discharged to the ground. A release from historical operations may have negatively impacted the subject property.

- During the site visit conducted by Sigma, three vehicle hydraulic lifts were observed in the vehicle maintenance building. Two of the lifts contained hydraulic components that were located underground. A release from the lift systems could have negatively impacted the subject property.

- The subject property was historically utilized to store winter road salt. The salt was historically covered and stored on an impervious surface; however, chronic leaching of the salt could have negatively impacted the subject property.

- A review of a Sanborn Fire Insurance map dated 1914 indicated that a portion of the subject property was historically utilized for the manufacture of motorcycles and the southern portion of the subject property (across Woolcock Street) utilized for the manufacture of couches and chairs. Manufacturing operations were likely performed with the storage and use of hazardous substances and the generation of hazardous waste. A release from historical manufacturing operations may have negatively impacted the subject property.

- Mr. Erik Coonen, Fleet Manager with the Jefferson County Highway Department, who owns and occupies the subject property, reported that sand/salt/clay washout from the cleaning of county trucks is deposited on the subject property northwest of the salt tent and that floor sweepings from the vehicle maintenance building are deposited on the subject property north of the vehicle maintenance building. The waste materials may have negatively impacted the subject property.

Additionally, controlled recognized environmental conditions (CRECs) were identified which include the following:

- The subject property (631 N. Watertown St.) was identified in the Leaking Underground Storage Tank (LUST), Leaking Aboveground Storage Tank (LAST) and Closed Remediation Site (CRS) databases as a closed LUST site with soil impacted with petroleum volatile organic compounds (PVOCs). The combined LUST cases (BRRTS #03-28-001215 and BRRTS #03-28-001216) and LAST case was opened on October 30, 1991. The Wisconsin Department of Natural Resources (WDNR) granted closure to the combined LUST/LAST case on October 12, 1998. Residual petroleum volatile organic compound (PVOC) contaminated soil is located on the subject property near the Jefferson County Highway Commission Garage. If, at some point in the future, the contamination becomes accessible, the contaminated soil must either be treated or disposed at that time.

- The subject property (631 N. Watertown St.) was identified in the Wisconsin Environmental repair Program (ERP), Closed Remediation Site (CRS) and Activity and Use Limitation (AUL) databases as a closed ERP site with soil impacted with petroleum (BRRTS# 02-28-001222). The ERP case was opened on November 8, 1991. The Wisconsin Department of Natural Resources (WDNR) granted closure to the ERP case on January 27, 1998. Residual petroleum impacted soil is located on the subject property near the Equipment Storage Building. If, at some point in the future, the contamination becomes accessible, the contaminated soil must either be treated or disposed at that time.

Finally, a historical recognized environmental condition (HREC) was identified which includes the following:

- The subject property was identified in the Wisconsin Spills database with a release of approximately 100 gallons of diesel fuel. The spill (overfill) occurred while filling a diesel Aboveground Storage Tank (AST) on October 22, 2012. The spill was reportedly cleaned up with absorbent booms and contaminated soil was excavated and transported off-site for disposal. The Spills case was closed by the WDNR on January 16, 2013, requiring no further action.

PHASE II SUMMARY

Sigma conducted a limited Phase II at the subject site in response to the RECs identified in the Phase I. The objective of the Phase II was to identify whether historical operations performed at the subject site have adversely affected soil and groundwater. Seven soil borings/five temporary wells were advanced at the subject site. The soil borings were generally advanced to depths of 10 to 16 feet bgs at borings GP-1 thru GP-6 and 5 feet below ground surface (bgs) at GP-7.

A summary of the soil boring locations is provided below:

- GP-1: Interior soil boring located in the furthest northeast building on the site used for area equipment repair and general maintenance of county highway equipment (REC #1).

- GP-2: Interior soil boring located in the furthest northeast building used to operate vehicle lifts using underground hydraulics (REC #2).

- GP-3: Exterior soil boring located south of West Woolcock Street in the north parking lot of a building used as a former manufacturing building with possible storage, use and generation of hazardous waste (REC #4).

- GP-4: Exterior soil boring located east side of the southwest building near a former manufacturing building with possible storage, use and generation of hazardous waste (REC #4).

- GP-5: Exterior soil boring located on the west side of the northwest building near current winter road salt storage (REC #3).

- GP-6: Exterior soil boring located on the west side of the northeast building near historic sand/salt/clay washout from cleaning county highway equipment (REC #3).

- GP-7: Exterior soil boring located on the north end of the Site in an open lot historically used to dispose of floor sweepings from northeast maintenance building (REC #5).

Sigma's March 2015 Phase II report indicated the following:

- Soil VOCs were not detected above the laboratory limit of detection (LOD) in soil samples submitted for analysis except for sec-Butylbenzene at GP-2 and Naphthalene at GP-5, both reported above the limit of quantitation (LOQ) but below the groundwater pathway RCLs and three compounds reported between the LOD and LOQ.

- Groundwater VOCs were not detected above the laboratory LOD in the groundwater samples submitted for analysis.

- Soil PAHs were not detected above the laboratory LOD in soil samples submitted for analysis except for soil samples collected at GP-1, GP-2, GP-3, GP-5 and GP-7. The detected concentrations for some of the compounds exceeds the groundwater pathway RCL and non-industrial Direct contact RCLs.

- Groundwater PAHs were detected above ch. NR 140 preventative action limits (PALs) in the groundwater samples submitted at temporary well TW-5. Compounds detected above the NR 140 PAL include Benzo(a)pyrene, Benzo(b)fluoranthene, and Chrysene. Benzo(a) pyrene and Benzo(b)fluoranthene were detected between the LOD and LOQ.

- Soil Total RCRA metals were detected in the two soil samples submitted for analysis. Arsenic was detected above the groundwater pathway RCL and non-industrial direct contact at GP-1 and GP-3. In addition, barium, cadmium, lead, and selenium were detected above the groundwater pathway RCLs at GP-3.

- Soil PCBs were not detected above the laboratory Limit of Detection (LOD) in the soil samples submitted for analysis.

- Soil Total chloride was reported at GP-5 and GP-6 at 4,800 mg/kg and 1,500 mg/kg respectively. Total sodium was reported at GP-5 and GP-6 at 5,400 mg/kg and 1,300 mg/kg respectively. There is no soil RCL for total sodium or total chloride.

- Groundwater Dissolved sodium was detected at a concentration of 1400 mg/L and 3800 mg/L at TW-5 and TW-6, respectively. There is no established standard in NR 140 for sodium in groundwater. Chloride was detected at a concentration of 2680 mg/L and 8540 mg/L at TW-5 and TW-6, respectively. The concentration of chloride at both locations was reported above the NR 140 ES.

CONCLUSIONS

Based on the Phase II, low level VOCs, PAHs, RCRA metals, sodium and chloride are present in soil and groundwater at various locations at the subject site. The concentrations of constituents detected in soil and groundwater collected at GP-1 and GP-2 located in the main buildings (RECs 1 and 2) are likely from previously investigated and closed historical releases. Areas of subject site where PAHs, metals and chloride were detected which includes the vicinity of GP-3, GP-4 and GP-5, will likely require additional soil and groundwater investigation.

If you have any questions regarding our submittal or require additional information, please do not hesitate to contact me at 414.643.4139 or via email at twimmer@thesigmagroup.com.

Sincerely,

THE SIGMA GROUP, INC.

Timothy E. Wimmer, P.G.
Senior Project Manager

List of Attachments:
Notification for Hazardous Substance Discharge Form 4400-225
Phase I Environmental Assessment (Phase I) report
Phase II Environmental Assessment (Phase II) report

cc: Ben Wehmeier – Jefferson County Administrator
Christopher Raykowski, P.E. - Sigma