

August 16, 2019

MR MIKE MONTGOMERY  
945 817TH ST  
DRESSER WI 54009

**KEEP THIS DOCUMENT WITH YOUR PROPERTY RECORDS**

SUBJECT: Final Case Closure with Continuing Obligations  
Former Osceola Oil Bulk Plant, 431 2<sup>nd</sup> Avenue SW, Milltown, Wisconsin  
DNR BRRTS Activity #02-49-483615  
FID #649101530

Dear Mr., Montgomery:

The Department of Natural Resources (DNR) considers the former Osceola Oil Bulk Plant site closed, with continuing obligations. No further investigation or remediation is required at this time. However, you, future property owners, and occupants of the property must comply with the continuing obligations as explained in the conditions of closure in this letter. Please read over this letter closely to ensure that you comply with all conditions and other on-going requirements. Provide this letter and any attachments listed at the end of this letter to anyone who purchases, rents or leases this property from you.

The former Osceola Oil Bulk Plant site has been investigated for discharges of hazardous substances, environmental pollution or both (the contamination) from the former above ground storage tanks located on the property. Case closure under Wis. Admin. Code chs. NR 726 and NR 727 is granted for the contaminants analyzed during the site investigation, as documented in the department site file. The site investigation and remedial action addressed soil and groundwater contamination.

The DNR's Northern Region Closure Committee reviewed the request for closure on June 6, 2019. The Closure Committee reviewed this environmental remediation case for compliance with state laws and standards to maintain consistency in the closure of these cases. A request for remaining actions needed was issued by the DNR on August 5, 2019, and documentation that the conditions in that letter were met was received on July 15, 2019.

A bulk plant was operated at this property from approximately 1950 to 2001. The property is currently used for general storage. Soil contamination was found during a Phase 2 investigation. Contaminated soils were excavated as a remedial action. Remaining soil contamination will be addressed through natural attenuation. The conditions of closure and continuing obligations required were based on the property being used for commercial purposes.

Continuing Obligations

The continuing obligations for this site are summarized below. Further details on actions required are found in the section Closure Conditions.

- Residual soil contamination exists that must be properly managed should it be excavated or removed.

The attached DNR fact sheet “Continuing Obligations for Environmental Protection,” RR-819, helps to explain a property owner’s responsibility for continuing obligations on their property. The fact sheet may be obtained online at [dnr.wi.gov](http://dnr.wi.gov) and search “RR-819”.

#### DNR Database

This site will be included on the Bureau for Remediation and Redevelopment Tracking System (BRRTS) on the Web (BOTW) online at [dnr.wi.gov](http://dnr.wi.gov) and search “BOTW”, to provide public notice of residual contamination and of any continuing obligations. The site can also be viewed on the Remediation and Redevelopment Sites Map (RRSM), a map view, at [dnr.wi.gov](http://dnr.wi.gov) and search “RRSM”.

The DNR’s approval prior to well construction or reconstruction is required in accordance with Wis. Admin. Code § NR 812.09 (4) (w). This requirement applies to private drinking water wells and high capacity wells. To obtain approval, complete and submit Form 3300-254 to the DNR Drinking and Groundwater program’s regional water supply specialist. This form can be obtained on-line at [dnr.wi.gov](http://dnr.wi.gov) and search “3300-254”.

All site information is also on file at the DNR’s Northern Region office, at 107 Sutliff Avenue in Rhinelander, Wisconsin. This letter and information that was submitted with your closure request application, including any maps, can be found as a Portable Document Format (PDF) in BRRTS on the Web.

#### Closure Conditions

Compliance with the requirements of this letter is a responsibility to which you, and any subsequent property owners must adhere. DNR staff will conduct periodic prearranged inspections to ensure that the conditions included in this letter are met. If these requirements are not followed, the DNR may take enforcement action under Wis. Stat. 292.11, to ensure compliance with the specified requirements, limitations or other conditions related to the property.

Please send written notifications in accordance with the following requirements to:

Department of Natural Resources  
Attn: Remediation and Redevelopment Program Environmental Program Associate  
107 Sutliff Avenue  
Rhinelander, Wisconsin 54501

#### Residual Soil Contamination (Wis. Admin. Code ch. NR 718, chs. NR 500 to 536, or Wis. Stat. ch. 289)

Soil contamination remains in the area of the former above ground storage tanks as indicated on the attached Figure B.2.b: Residual Soil Contamination, prepared by METCO and dated August 9, 2018. If soil in the specific locations described above is excavated in the future, the property owner at the time of excavation must sample and analyze the excavated soil to determine if contamination remains. If sampling confirms that contamination is present, the property owner at the time of excavation will need to determine whether the material is considered solid or hazardous waste and ensure that any storage, treatment or disposal is in compliance with applicable standards and rules. Contaminated soil may be managed in accordance with Wis. Admin. Code ch. NR 718, with prior DNR approval.

In addition, all current and future owners and occupants of the property need to be aware that excavation of the contaminated soil may pose an inhalation or other direct contact hazard and as a result special precautions may need to be taken to prevent a direct contact health threat to humans

#### PECFA Reimbursement

Wis. Stat. § 101.143, requires that Petroleum Environmental Cleanup Fund Award (PECFA) claimants seeking reimbursement of interest costs, for sites with petroleum contamination, submit a final reimbursement claim within 120 days after they receive a closure letter on their site. For claims not received within 120 days of the date of this letter, interest costs after 60 days of the date of this letter will not be eligible for PECFA reimbursement. If

there is equipment purchased with PECFA funds remaining at the site, contact the DNR Project Manager to determine the method for salvaging the equipment.

Per Wisconsin Act 55 (2015 State budget), a claim for PECFA reimbursement must be submitted within 180 days of incurring costs (i.e., completing a task). If your final PECFA claim is not submitted within 180 days of incurring the costs, the costs will not be eligible for PECFA reimbursement.

In Closing

Please be aware that the case may be reopened pursuant to Wis. Admin. Code § NR 727.13, for any of the following situations:

- if additional information regarding site conditions indicates that contamination on or from the site poses a threat to public health, safety, or welfare or to the environment,
- if the property owner does not comply with the conditions of closure, with any deed restrictions applied to the property, or with a certificate of completion issued under Wis. Stat. 292.15, or
- a property owner fails to maintain or comply with a continuing obligation (imposed under this closure approval letter).

The DNR appreciates your efforts to restore the environment at this site. If you have any questions regarding this closure decision or anything outlined in this letter, please contact Carrie Stoltz at (715) 365-8942 or at [Carrie.Stoltz@Wisconsin.gov](mailto:Carrie.Stoltz@Wisconsin.gov). You can also contact me at (715) 685-2920 or by email at [Christopher.Saari@wisconsin.gov](mailto:Christopher.Saari@wisconsin.gov)

Sincerely,




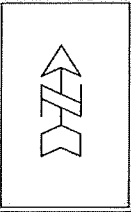
Christopher A. Saari  
Northern Region Team Supervisor  
Remediation and Redevelopment Program

Attachments:

- Figure B.2.b: Residual Soil Contamination, METCO, August 9, 2018
- Continuing Obligations for Environmental Protection, DNR Publication RR-819

cc: Jason Powell – METCO (via email)  
Carrie Stoltz – DNR Rhinelander (via email)


<p>B.2.b. RESIDUAL SOIL CONTAMINATION OSCEOLA OIL BULK PLANT - MILLTOWN</p>	
 <p>7000 Glendale Street, Suite 3 La Grange, WI 53044 Tel: (262) 791-8200 Fax: (262) 791-8500</p>	<p>MILLTOWN, WISCONSIN</p> <p>DRAWN BY: EEL DATE: 03/30/2007 UPDATED BY: EEL DATE: 06/06/2008</p>



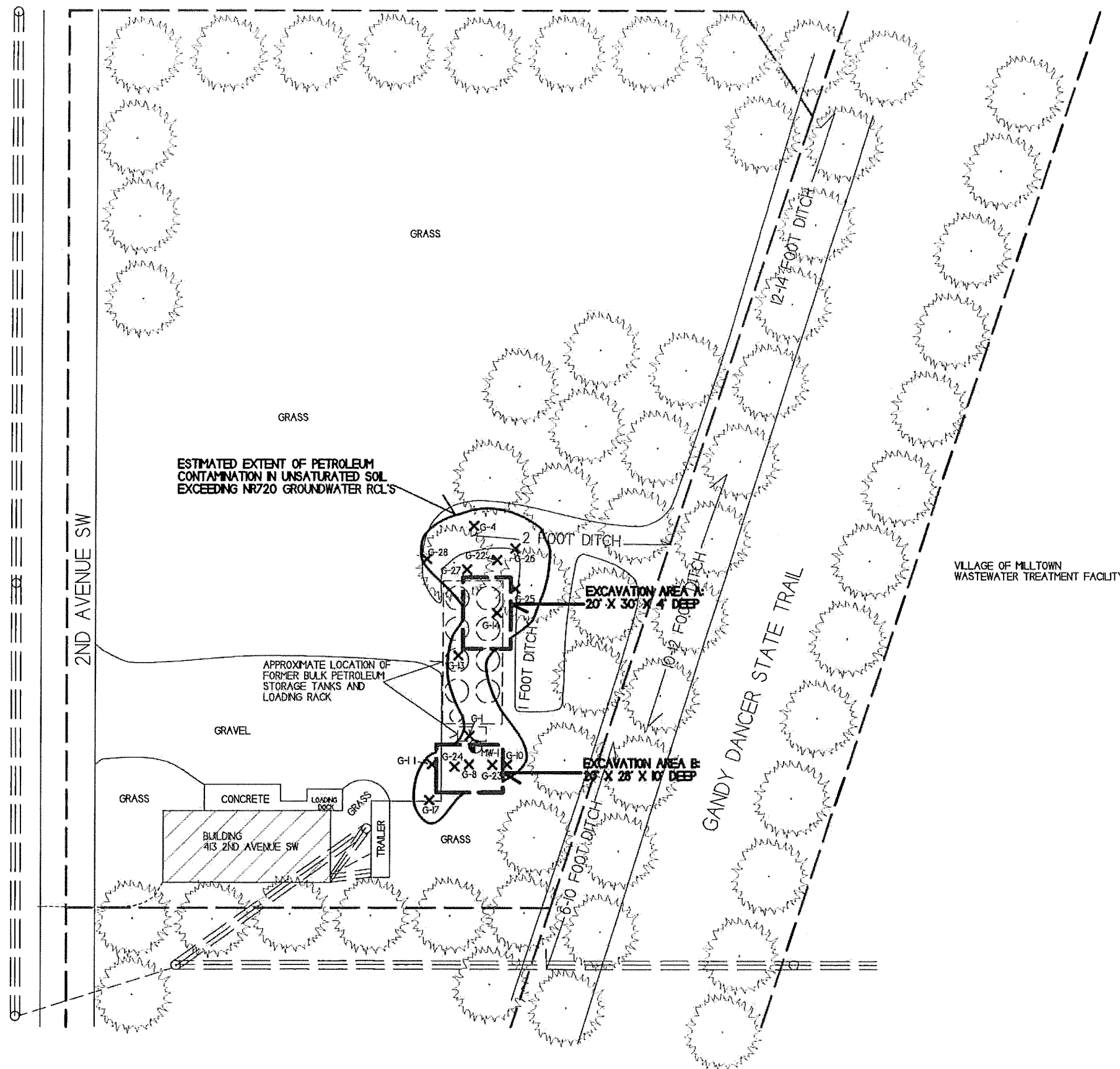
NOTE: INFORMATION BASED ON AVAILABLE DATA. ACTUAL CONDITIONS MAY DIFFER

- ✕ - SOIL BORING LOCATION
- ⊕ - MONITORING WELL LOCATION

SCALE: 1 INCH = 50 FEET



- - - - - BURIED ELECTRIC LINE
- - - - - TELEPHONE/FIBER OPTIC LINE
- ==== OVERHEAD LINES
- - - - - PROPERTY BOUNDARY





August 5, 2019

MR MIKE MONTGOMERY  
945 187TH ST  
DRESSER WI 54009

Subject: Remaining Actions Needed for Case Closure under Wis. Admin. Code chs. NR 700-754  
Osceola Oil Bulk Plant, 431 2<sup>nd</sup> Avenue SW, Milltown, Wisconsin  
DNR BRRTS Activity #02-49-483615

Dear Mr. Montgomery:

On June 6, 2019, the Department of Natural Resources (DNR) reviewed your request for closure of the case described above. The DNR reviews environmental remediation cases for compliance with applicable local, state and federal laws. The following actions are required prior to the DNR granting you case closure in compliance with Wis. Stat. ch. 292 and Wis. Admin. Code chs. NR 700-754. Upon completion of these actions, closure approval will be provided. Pursuant to Wis. Admin. Code § NR 726.09 (2) (g), you are required to provide this information to the DNR within 120 days of the date of this letter.

### **Remaining Actions Needed**

#### Monitoring Well or Remedial System Piping Filling and Sealing

The monitoring wells at the site must be properly filled and sealed in accordance with Wis. Admin. Code ch. NR 141. Documentation of filling and sealing for all wells and boreholes must be submitted on DNR Form 3300-005 to DNR, Attn: Carrie Stoltz, 107 Sutliff Avenue, Rhinelander, WI 54501. To download the form, go online at [dnr.wi.gov](http://dnr.wi.gov) and search "form 3300-005".

#### Purge Water, Waste and/or Soil Pile Removal

Any remaining purge water, solid waste and/or contaminated soil piles generated as part of site investigation or remediation activities must be removed from the site and properly managed in accordance with the applicable local, state and federal laws. Once that work is complete, send documentation to the DNR regarding the methods used for appropriate treatment or disposal of the remaining purge water, solid waste and/or contaminated soil.

### **Documentation**

When the required actions are completed, submit the appropriate documentation within 120 days of the date of this letter, to verify completion. At that point, your closure request can be approved, and your case can be closed.

### **Listing on Database**


This site will be listed on the DNR's Bureau for Remediation and Redevelopment Tracking System on the Web (BOTW) and RR Sites Map, to provide public notice of remaining contamination and continuing obligations. The continuing obligations will be specified in the final case closure approval letter sent to you. Information that was submitted with your closure request application will be included on BOTW, located online at [dnr.wi.gov](http://dnr.wi.gov) and search "BOTW".

**In Conclusion**

We appreciate your efforts to restore the environment at this site. This remedial action project is nearing completion. We look forward to working with you to complete all remaining actions that are necessary to achieve case closure.

If you have any questions regarding this letter, please contact the project manager, Carrie Stoltz at (715) 365-8942 or [Carrie.Stoltz@Wisconsin.gov](mailto:Carrie.Stoltz@Wisconsin.gov)

Sincerely,



Christopher A. Saari  
Northern Region Team Supervisor  
Remediation and Redevelopment Program

cc: Jason Powell – METCO (via email)  
Carrie Stoltz – DNR Rhinelander (via email)

**Wisconsin Department of Natural Resources**  
**Case Closure – GIS Registry**  
**NR 4400-202**

**For: Osceola Oil Bulk Plant (FMR)**  
**BRRTS # 02-49-483615**

**January 31, 2019**



*Excellence through experience™*



Excellence through experience™

709 Gillette St., Ste 3, La Crosse, WI 54603 ♦ 1-800-552-2932 ♦ Fax (608) 781-8893 Email: [rona@metcohq.com](mailto:rona@metcohq.com) ♦ [www.metcohq.com](http://www.metcohq.com)

January 31, 2019

BRRTS# 02-49-483615

Kathleen Shafel, Environmental Program Associate  
WDNR Remediation and Redevelopment Program  
Northern Region Office  
223 East Steinfest Road  
Antigo, WI 54409

RE: Osceola Oil Bulk Plant

Dear Ms. Shafel,

Enclosed is the \$1,050 Closure Review Fee and the \$300.00 GIS Registry fees (Soil) for the Osceola Oil Bulk Plant site (BRRTS# 02-49-483615) in Milltown, Wisconsin. The complete closure submittal is being sent to Carrie Stoltz of the Wisconsin Department of Natural Resources.

Sincerely,

A handwritten signature in black ink that reads "Jason T. Powell". The signature is fluid and cursive, with a long horizontal stroke extending to the left.

Jason T. Powell  
Staff Scientist

c: Mike Montgomery – Client



## Table of Contents

**WDNR Case Summary and Case Closure – GIS Registry Form**

**Attachment A/Data Tables**

**Attachment B/Maps, Figures, and Photos**

**Attachment C/Documentation of Remedial Action**

Attachment D/Maintenance Plan(s)

**Attachment E/Monitoring Well Information**

**Attachment F/Source Legal Documents**

Attachment G/Notifications to Owners of Affected Properties

*Need  
 Feb 21st / 2019*

**SUBMIT AS UNBOUND PACKAGE IN THE ORDER SHOWN**

Notice: Pursuant to ch. 292, Wis. Stats., and chs. NR 726 and 746, Wis. Adm. Code, this form is required to be completed for case closure requests. The closure of a case means that the Department of Natural Resources (DNR) has determined that no further response is required at that time based on the information that has been submitted to the DNR. All sections of this form must be completed unless otherwise directed by the Department. DNR will consider your request administratively complete when the form and all sections are completed, all attachments are included, and the applicable fees required under ch. NR 749, Wis. Adm. Code, are included, and sent to the proper destinations. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records Law (ss. 19.31 - 19.39, Wis. Stats.). Incomplete forms will be considered "administratively incomplete" and processing of the request will stop until required information is provided.

Site Information			
BRRTS No.		VPLE No.	
02-49-483615			
Parcel ID No.			
151-00345-0000			
FID No.		WTM Coordinates	
649101530		X 324068	Y 563724
BRRTS Activity (Site) Name		WTM Coordinates Represent:	
Osceola Oil Bulk Plant (FMR)		<input checked="" type="checkbox"/> Source Area <input type="checkbox"/> Parcel Center	
Site Address		City	State   ZIP Code
431 2nd Avenue SW		Milltown	WI   54858
Acres Ready For Use		2.25	
Responsible Party (RP) Name			
Mike Montgomery			
Company Name			
Mailing Address		City	State   ZIP Code
945 187th Street		Dresser	WI   54009
Phone Number		Email	
(715) 501-8349		mmontg2@yahoo.com	
<input checked="" type="checkbox"/> Check here if the RP is the owner of the source property.			
Environmental Consultant Name			
Ronald Anderson			
Consulting Firm			
METCO			
Mailing Address		City	State   ZIP Code
709 Gillette Street, Suite 3		La Crosse	WI   54601
Phone Number		Email	
(608) 781-8879		rona@metcohq.com	

**Fees and Mailing of Closure Request**

- Send a copy of page one of this form and the applicable ch. NR 749, Wis. Adm. Code, fee(s) to the DNR Regional EPA (Environmental Program Associate) at <http://dnr.wi.gov/topic/Brownfields/Contact.html#tabx3>. Check all fees that apply:
 

<input checked="" type="checkbox"/> \$1,050 Closure Fee	<input checked="" type="checkbox"/> \$300 Database Fee for Soil
<input type="checkbox"/> \$350 Database Fee for Groundwater or Monitoring Wells (Not Abandoned)	Total Amount of Payment \$ <u>\$1,350.00</u>
	<input type="checkbox"/> Resubmittal, Fees Previously Paid
- Send one paper copy and one e-copy on compact disk of the entire closure package to the Regional Project Manager assigned to your site. Submit as unbound, separate documents in the order and with the titles prescribed by this form. For electronic document submittal requirements, see <http://dnr.wi.gov/files/PDF/pubs/rr/RR690.pdf>.

## Site Summary

*If any portion of the Site Summary Section is not relevant to the case closure request, you must fully explain the reasons why in the relevant section of the form. All information submitted shall be legible. Providing illegible information will result in a submittal being considered incomplete until corrected.*

### 1. General Site Information and Site History

- A. Site Location: Describe the physical location of the site, both generally and specific to its immediate surroundings.  
The Osceola Oil Bulk Plant site, 413 2nd Avenue SW, is located at the NW 1/4, SW 1/4, Section 17, Township 35 North, Range 17 West, in Milltown, Polk County, WI. The site is bound by a residential property to the north, a vacant lot to the south, Gandy Dancer State Trail to the east, and 2nd Avenue SW to the west.
- B. Prior and current site usage: Specifically describe the current and historic occupancy and types of use.  
A bulk petroleum storage facility operated on the property from approximately the 1950s until 2001. The property is currently used for general storage.
- C. Current zoning (e.g., industrial, commercial, residential) for the site and for neighboring properties, and how verified (Provide documentation in Attachment G).  
According to the Polk County GIS Map, the Osceola Oil Bulk Plant property is zoned as G2-Commercial. The properties to the north and south are zoned as G1-Residential properties. The properties to the east and west are X4-Other (General Purpose).
- D. Describe how and when site contamination was discovered.  
On June 1, 2001, nine above ground storage tanks (ASTs) were removed from the subject property. The ASTs consisted of one 14,000-gallon fuel oil, one 14,000-gallon diesel, two 12,000-gallon diesel, one 12,000-gallon kerosene, two 10,000-gallon unleaded gasoline, one 10,000-gallon diesel, and one 1,500-gallon kerosene AST.  
  
On July 28, 2003, DPRA, Inc. completed a Phase 2 Environmental Site Assessment (P2ESA) at the subject property. No report of the P2ESA results is available. However, it appears that obvious soil contamination was encountered and reported to the WDNR on the same date.
- E. Describe the type(s) and source(s) or suspected source(s) of contamination.  
Petroleum contamination appears to have originated from the former AST systems.
- F. Other relevant site description information (or enter Not Applicable).  
Not applicable.
- G. List BRRTS activity/site name and number for BRRTS activities at this source property, including closed cases.  
No other BRRTS activities exist at the subject property.
- H. List BRRTS activity/site name(s) and number(s) for all properties immediately adjacent to (abutting) this source property.  
There are currently no BRRTS cases for any immediately adjacent properties.

### 2. General Site Conditions

- A. Soil/Geology
- Describe soil type(s) and relevant physical properties, thickness of soil column across the site, vertical and lateral variations in soil types.  
Local unconsolidated materials generally consist of clayey sand to sandy clay with some gravel from surface to depths ranging from 1 to 5 feet bgs. Medium to coarse grained sand with gravel exists at depths ranging from 1 to 5 feet bgs and extends to at least 36 feet bgs.
  - Describe the composition, location and lateral extent, and depth of fill or waste deposits on the site.  
Fill material consisting of sand and gravel was encountered from surface to depths ranging from 1 to 3 feet bgs in the area of the former bulk petroleum storage tanks and loading rack. Fill material consisting of sand, clayey sand, sandy clay, wood, gravel, and concrete also exists from surface to approximately 20 feet bgs in the area to the north of the former bulk petroleum storage tanks.
  - Describe the depth to bedrock, bedrock type, competency and whether or not it was encountered during the investigation.  
Bedrock was not encountered as part of this site investigation; however, sandstone bedrock is believed to exist at approximately 100 feet bgs.
  - Describe the nature and locations of current surface cover(s) across the site (e.g., natural vegetation, landscaped areas, gravel, hard surfaces, and buildings).  
The on-site building is located in the southern portion of the property. A gravel driveway/parking area exists to the north and northwest of the building. A concrete loading dock exists along the north edge of the on-site building. The remainder of the lot is covered in grass with trees around the perimeter of the property.

B. Groundwater

- i. Discuss depth to groundwater and piezometric elevations. Describe and explain depth variations, including high and low water table elevation and whether free product affects measurement of water table elevation. Describe the stratigraphic unit(s) where water table was found or which were measured for piezometric levels.

Groundwater exists at depths ranging from 29.34-31.71 feet bgs in the water table depending on well location and time of year. Free product has not affected watertable elevation measurements in any monitoring wells. The stratigraphic unit where the watertable exists consists of medium to coarse grained sand with some gravel. No piezometers were installed during the investigation.

- ii. Discuss groundwater flow direction(s), shallow and deep. Describe and explain flow variations, including fracture flow if present.

According to the water table measurements collected during groundwater sampling, the local horizontal groundwater flow in the immediate area of the subject property is generally toward the southeast. Groundwater flow direction deeper in the aquifer is unknown as no piezometer wells have been installed.

- iii. Discuss groundwater flow characteristics: hydraulic conductivity, flow rate and permeability, or state why this information was not obtained.

Slug tests were not conducted during the site investigation. Book values for geologic material at the water table give an estimated hydraulic conductivity of  $10^{-3}$  to  $10^{-1}$  cm/sec for medium to coarse grained sand. Based on the average hydraulic gradient of 0.0021 from the two rounds of groundwater monitoring, this yields an estimated flow velocity of 1.65564 to 165.56400 m/yr.

- iv. Identify and describe locations/distance of potable and/or municipal wells within 1200 feet of the site. Include general summary of well construction (geology, depth of casing, depth of screened or open interval).

There is currently no municipal or private water supply at the subject property. The Village of Milltown municipal water system extends down 2nd Avenue SW to about the northern property boundary, supplying municipal water to the nearby properties to the north. The water main then turns west and runs down Tiger Avenue. The Village of Milltown has two municipal water supply wells, which are located approximately 2,100 feet to the north-northeast of the subject property. Properties to the south are not connected to the municipal water supply. However, there do not appear to be any structures within 1,200 feet of the subject property that would have private water supply wells.

3. Site Investigation Summary

A. General

- i. Provide a brief summary of the site investigation history. Reference previous submittals by name and date. Describe site investigation activities undertaken since the last submittal for this project and attach the appropriate documentation in Attachment C, if not previously provided.

On May 24-25, 2017, METCO completed twenty-two Geoprobe borings. One hundred and twenty-three soil samples and eleven groundwater samples were collected for field and/or laboratory analysis. Upon completion, the boreholes were properly abandoned. (Site Investigation Report - August, 2017)

On February 5-8, 2018, Professional Services Industries (PSI), of Chippewa Falls, Wisconsin, installed six monitoring wells (MW-1, MW-2, MW-3, MW-4, MW-5, and MW-6) under the direction and supervision of METCO personnel. The monitoring wells were installed to depths ranging from 35 to 36 feet below ground surface (bgs). During the drilling project, fifty-two soil samples were collected for field (PID) analysis of which three samples were submitted for laboratory analysis (PVOC, Naphthalene, PAH, and Lead). One additional soil sample, which was a composite sample of the soil waste, was collected for laboratory analysis (DRO, GRO, TCLP-Lead, and TCLP-Benzene) to be used by the landfill for waste disposal characterization. Upon completion, the monitoring wells were properly developed. (Letter Report - August, 2018)

On March 1, 2018, Geiss Soil & Samples, LLC of Merrill, Wisconsin conducted a Geoprobe project under the direction and supervision of METCO personnel. During the Geoprobe project six Geoprobe borings (G-23 through G-28) were completed to 12 feet bgs. During the Geoprobe project, eighteen soil samples were collected for field (PID) and laboratory analysis (PVOC, Naphthalene, PAH, and Lead). Upon completion, the Geoprobe borings were properly abandoned. (Letter Report - August, 2018)

On March 29, 2018, METCO collected groundwater samples from the six monitoring wells (MW-1 through MW-6) for laboratory analysis (VOC, PAH, Lead, Nitrate/Nitrite, Dissolved Iron, and Dissolved Manganese). Field measurements for water level, Dissolved Oxygen, pH, ORP, temperature, and Specific Conductivity were collected from all sampled monitoring wells. During the groundwater sampling, Fauerbach Surveying & Engineering of Hillsboro, Wisconsin surveyed the monitoring wells to feet mean sea level (msl). (Letter Report - August, 2018)

On June 14, 2018, METCO collected groundwater samples from the six monitoring wells (MW-1 through MW-6) for laboratory analysis (PVOC, PAH, and Lead). Field measurements for water level, Dissolved Oxygen, pH, ORP, temperature, and Specific Conductivity were collected from all sampled monitoring wells. (Letter Report - August, 2018)

On October 17-18, 2018, DKS Construction Services, Inc. of Menomonie, Wisconsin conducted a Soil Excavation Project under the supervision and direction of METCO personnel. During the excavation project, 497.43 tons of petroleum-contaminated soil was excavated and hauled to the Republic Services Landfill in Sarona, Wisconsin. Two separate excavation areas were conducted (A and B). Excavation Area A measured 30' long x 20' wide x 4' deep. Three soil samples (EX-1, EX-2, and EX-3) were collected from the sidewalls of the excavation at approximately 3 feet bgs for PAH and PVOC analysis. Excavation Area B measured 28' long x 20' wide x 10' deep. Three soil samples (EX-4, EX-5, and EX-6) were collected from the sidewalls of the excavation at approximately 3 feet bgs for PAH and PVOC analysis. (Attachment C)

- ii. Identify whether contamination extends beyond the source property boundary, and if so describe the media affected (e.g., soil, groundwater, vapors and/or sediment, etc.), and the vertical and horizontal extent of impacts.  
Soil contamination does not extend beyond the source property boundary.

- iii. Identify any structural impediments to the completion of site investigation and/or remediation and whether these impediments are on the source property or off the source property. Identify the type and location of any structural impediment (e.g., structure) that also serves as the performance standard barrier for protection of the direct contact or the groundwater pathway.

No structural impediments interfered with the completion of the site investigation.

**B. Soil**

- i. Describe degree and extent of soil contamination. Relate this to known or suspected sources and known or potential receptors/migration pathways.

An area of unsaturated soil contamination, which exceeds the NR720 Groundwater RCL values exists to the north, east, and west of the October 2018 soil excavation area A and in the area the former AST's. This soil contamination plume measures up to 54 feet long, up to 53 feet wide, and up to 4 feet thick. A second area of unsaturated soil contamination exceeding the NR720 Groundwater RCL's exists to the south and west of the October 2018 soil excavation area A in the area of the former AST's and north and east of the October 2018 soil excavation area B. This soil contamination plume measures up to 56 feet long, up to 25 wide, and up to 8 feet thick. A third area of unsaturated soil contamination exceeding the NR720 Groundwater RCL's exists to the south and west of the October 2018 soil excavation area B. This soil contamination plume measures up to 30 feet long, up to 21 wide, and up to 8 feet thick.

These contamination plumes do not appear to come into contact with any known or potential receptors/migration pathways.

- ii. Describe the concentration(s) and types of soil contaminants found in the upper four feet of the soil column. Remaining Soil samples collected within the upper four feet of the soil column exceeding the NR720 RCL's include:

G-4-1(3.5 feet bgs): Lead (53.90 ppm).

G-13-1 (3.5 feet bgs): Benzene (0.033 ppm), Trimethylbenzenes (2.35 ppm).

G-14-1 (3.5 feet bgs): Trimethylbenzenes (5.73 ppm).

G-22-1 (3.5 feet bgs): Lead (337 ppm)

G-24-1 (3.5 feet bgs): Lead (36.9 ppm), Benzene (14.1 ppm), Ethylbenzene (43 ppm), Naphthalene (46.0 ppm), Toluene (14.6 ppm), Trimethylbenzenes (231 ppm), Xylene (213 ppm).

G-25-1 (3.5 feet bgs): Lead (34.3 ppm).

G-26-1 (3.5 feet bgs): Lead (119 ppm).

G-27-1 (3.5 feet bgs): Lead (51.3 ppm).

G-28-1 (3.5 feet bgs): Lead (50.3 ppm).

- iii. Identify the ch. NR 720, Wis. Adm. Code, method used to establish the soil cleanup standards for this site. This includes a soil performance standard established in accordance with s. NR 720.08, a Residual Contaminant Level (RCL) established in accordance with s. NR 720.10 that is protective of groundwater quality, or an RCL established in accordance with s. NR 720.12 that is protective of human health from direct contact with contaminated soil. Identify the land use classification that was used to establish cleanup standards. Provide a copy of the supporting calculations/information in Attachment C.

The method used to establish the soil cleanup standards for this site were the NR720 RCL's. The property is zoned as G2-Commercial, therefore non-industrial standards were used for this site.

**C. Groundwater**

- i. Describe degree and extent of groundwater contamination. Relate this to known or suspected sources and known or potential receptors/migration pathways. Specifically address any potential or existing impacts to water supply wells or interception with building foundation drain systems.

There is no groundwater contamination exceeding the NR140 ES. However, there are NR140 PAL exceedance in G-W-1: Naphthalene (23.3 ppb) and G-W-3: Benzene (2.95 ppb)

There are no known municipal or private water supply wells within 1,200 feet of the subject property.

- ii. Describe the presence of free product at the site, including the thickness, depth, and locations. Identify the depth and location of the smear zone.

Free product was not encountered during the site investigation.

D. Vapor

- i. Describe how the vapor migration pathway was assessed, including locations where vapor, soil gas, or indoor air samples were collected. If the vapor pathway was not assessed, explain reasons why.  
Soil contamination does not appear to extend underneath the on-site building. Therefore, the potential of vapor intrusion to the building appears unlikely.
- ii. Identify the applicable DNR action levels and the land use classification used to establish them. Describe where the DNR action levels were reached or exceeded (e.g., sub slab, indoor air or both).  
No indoor air/sub slab vapor samples were collected.

E. Surface Water and Sediment

- i. Identify whether surface water and/or sediment was assessed and describe the impacts found. If this pathway was not assessed, explain why.  
The nearest surface water is a wetland area along Rice Creek which exists approximately 450 feet to the southeast of the subject property. Since it does not appear that the area of soil and groundwater contamination extends to any surface waters, no surface sediment samples were collected.
- ii. Identify any surface water and/or sediment action levels used to assess the impacts for this pathway and how these were derived. Describe where the DNR action levels were reached or exceeded.  
No surface water or sediment samples were collected.

**4. Remedial Actions Implemented and Residual Levels at Closure**

- A. General: Provide a brief summary of the remedial action history. List previous remedial action report submittals by name and date. Identify remedial actions undertaken since the last submittal for this project and provide the appropriate documentation in Attachment C.

On October 17-18, 2018, DKS Construction Services, Inc. of Menomonie, Wisconsin conducted a Soil Excavation Project under the supervision and direction of METCO personnel. During the excavation project, 497.43 tons of petroleum-contaminated soil was excavated and hauled to the Republic Services Landfill in Sarona, Wisconsin. Two separate excavation areas were conducted (A and B). Excavation Area A measured 30' long x 20' wide x 4' deep. Three soil samples (EX-1, EX-2, and EX-3) were collected from the sidewalls of the excavation at approximately 3 feet bgs for PAH and PVOC analysis. Excavation Area B measured 28' long x 20' wide x 10' deep. Three soil samples (EX-4, EX-5, and EX-6) were collected from the sidewalls of the excavation at approximately 3 feet bgs for PAH and PVOC analysis. (Attachment C)

- B. Describe any immediate or interim actions taken at the site under ch NR 708, Wis. Adm. Code.  
No immediate or interim actions occurred at this site.

- C. Describe the *active* remedial actions taken at the source property, including: type of remedial system(s) used for each media affected; the size and location of any excavation or in-situ treatment; the effectiveness of the systems to address the contaminated media and substances; operational history of the systems; and summarize the performance of the active remedial actions. Provide any system performance documentation in Attachment A.7.

On October 17-18, 2018, DKS Construction Services, Inc. of Menomonie, Wisconsin conducted a Soil Excavation Project under the supervision and direction of METCO personnel. During the excavation project, 497.43 tons of petroleum-contaminated soil was excavated and hauled to the Republic Services Landfill in Sarona, Wisconsin. Two separate excavation areas were conducted (A and B). Excavation Area A measured 30' long x 20' wide x 4' deep. Three soil samples (EX-1, EX-2, and EX-3) were collected from the sidewalls of the excavation at approximately 3 feet bgs for PAH and PVOC analysis. Excavation Area B measured 28' long x 20' wide x 10' deep. Three soil samples (EX-4, EX-5, and EX-6) were collected from the sidewalls of the excavation at approximately 3 feet bgs for PAH and PVOC analysis. (Attachment C)

- D. Describe the alternatives considered during the Green and Sustainable Remediation evaluation in accordance with NR 722.09 and any practices implemented as a result of the evaluation.  
No evaluation of Green and Sustainable Remediation was conducted.

- E. Describe the nature, degree and extent of residual contamination that will remain at the source property or on other affected properties after case closure.

An area of unsaturated soil contamination, which exceeds the NR720 Groundwater RCL values exists to the north, east, and west of the October 2018 soil excavation area A and in the area the former AST's. This soil contamination plume measures up to 54 feet long, up to 53 feet wide, and up to 4 feet thick. A second area of unsaturated soil contamination exceeding the NR720 Groundwater RCL's exists to the south and west of the October 2018 soil excavation area A in the area the former AST's and north and east of the October 2018 soil excavation area B. This soil contamination plume measures up to 56 feet long, up to 25 wide, and up to 8 feet thick. A third area of unsaturated soil contamination exceeding the NR720 Groundwater RCL's exists to the south and west of the October 2018 soil excavation area B. This soil contamination plume measures up to

30 feet long, up to 21 wide, and up to 8 feet thick.

There is no groundwater contamination exceeding the NR140 ES. However, there are NR140 PAL exceedances in G-W-1: Naphthalene (23.3 ppb) and G-W-3: Benzene (2.95 ppb)

- F. Describe the residual soil contamination within four feet of ground surface (direct contact zone) that attains or exceeds RCLs established under s. NR 720.12, Wis. Adm. Code, for protection of human health from direct contact.  
There is no known residual soil contamination exceeding the NR720 Direct Contact RCL's.
- G. Describe the residual soil contamination that is above the observed low water table that attains or exceeds the soil standard(s) for the groundwater pathway.  
Soil samples above the observed low water table which currently exceed the NR720 Groundwater RCL's include:
- G-1-8 (30 feet bgs): Naphthalene and Trimethylbenzenes.
  - G-4-1 (3.5 feet bgs): Lead.
  - G-10-2 (8 feet bgs): Naphthalene and Trimethylbenzenes.
  - G-11-2 (8 feet bgs): Benzene, Ethylbenzene, Naphthalene, Trimethylbenzenes, and Xylene.
  - G-13-1 (3.5 feet bgs): Benzene and Trimethylbenzenes.
  - G-17-2 (8 feet bgs): Naphthalene and Trimethylbenzenes.
  - G-22-1 (3.5 feet bgs): Lead.
  - G-25-1 (8 feet bgs): Lead.
  - G-26-1 (3.5 feet bgs): Lead.
  - G-27-1 (3.5 feet bgs): Lead.
  - G-27-1 (3.5 feet bgs): Lead.
- H. Describe how the residual contamination will be addressed, including but not limited to details concerning: covers, engineering controls or other barrier features; use of natural attenuation of groundwater; and vapor mitigation systems or measures.  
Residual soil contamination will be addressed via natural attenuation.
- I. If using natural attenuation as a groundwater remedy, describe how the data collected supports the conclusion that natural attenuation is effective in reducing contaminant mass and concentration (e.g., stable or receding groundwater plume).  
Not Applicable
- J. Identify how all exposure pathways (soil, groundwater, vapor) were removed and/or adequately addressed by immediate, interim and/or remedial action(s).  
Any remaining exposure pathways will be addressed via natural attenuation.
- K. Identify any system hardware anticipated to be left in place after site closure, and explain the reasons why it will remain.  
No system hardware was installed as part of the site investigation.
- L. Identify the need for a ch. NR 140, Wis. Adm. Code, groundwater Preventive Action Limit (PAL) or Enforcement Standard (ES) exemption, and identify the affected monitoring points and applicable substances.  
Currently, there are no monitoring wells that show any ES or PAL exceedances.
- M. If a DNR action level for vapor intrusion was exceeded (for indoor air, sub slab, or both) describe where it was exceeded and how the pathway was addressed.  
No indoor air or sub slab vapor samples were collected.
- N. Describe the surface water and/or sediment contaminant concentrations and areas after remediation. If a DNR action level was exceeded, describe where it was exceeded and how the pathway was addressed.  
No surface water or sediment samples were collected.

**5. Continuing Obligations: Situations where sites, including all affected properties and rights-of-way (ROWs), are included on the DNR's GIS Registry. In certain situations, maintenance plans are also required, and must be included in Attachment D.**

Directions: For each of the 3 property types below, check all situations that apply to this closure request.

(NOTE: Monitoring wells to be transferred to another site are addressed in Attachment E.)

This situation applies to the following property or Right of Way (ROW):			Case Closure Situation - Continuing Obligation Inclusion on the GIS Registry is Required (ii. - xiv.)	Maintenance Plan Required	
Property Type:					
Source Property	Affected Property (Off-Source)	ROW			
i.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	None of the following situations apply to this case closure request.	NA
ii.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Residual groundwater contamination exceeds ch. NR 140 ESs.	NA
iii.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Residual soil contamination exceeds ch. NR 720 RCLs.	NA
iv.				Monitoring Wells Remain:	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	• Not Abandoned (filled and sealed)	NA
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	• Continued Monitoring (requested or required)	Yes
v.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Cover/Barrier/Engineered Cover or Control for (soil) direct contact pathways (includes vapor barriers)	Yes
vi.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Cover/Barrier/Engineered Cover or Control for (soil) groundwater infiltration pathway	Yes
vii.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Structural Impediment: impedes completion of investigation or remedial action (not as a performance standard cover)	NA
viii.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Residual soil contamination meets NR 720 industrial soil RCLs, land use is classified as industrial	NA
ix.	<input type="checkbox"/>	<input type="checkbox"/>	NA	Vapor Mitigation System (VMS) required due to exceedances of vapor risk screening levels or other health based concern	Yes
x.	<input type="checkbox"/>	<input type="checkbox"/>	NA	Vapor: Dewatering System needed for VMS to work effectively	Yes
xi.	<input type="checkbox"/>	<input type="checkbox"/>	NA	Vapor: Compounds of Concern in use: full vapor assessment could not be completed	NA
xii.	<input type="checkbox"/>	<input type="checkbox"/>	NA	Vapor: Commercial/industrial exposure assumptions used.	NA
xiii.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Vapor: Residual volatile contamination poses future risk of vapor intrusion	NA
xiv.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Site-specific situation: (e. g., fencing, methane monitoring, other) ( <i>discuss with project manager before submitting the closure request</i> )	Site specific

**6. Underground Storage Tanks**

- A. Were any tanks, piping or other associated tank system components removed as part of the investigation or remedial action?  Yes  No
- B. Do any upgraded tanks meeting the requirements of ch. ATCP 93, Wis. Adm. Code, exist on the property?  Yes  No
- C. If the answer to question 6.B. is yes, is the leak detection system currently being monitored?  Yes  No



## General Instructions

All information shall be legible. Providing illegible information will result in a submittal being considered incomplete until corrected. For each attachment (A-G), provide a Table of Contents page, listing all 'applicable' and 'not applicable' items by Closure Form titles (e.g., A.1. Groundwater Analytical Table, A.2. Soil Analytical Results Table, etc.). If any item is 'not applicable' to the case closure request, you must fully explain the reasons why.

## Data Tables (Attachment A)

### Directions for Data Tables:

- Use **bold** and italics font for information of importance on tables and figures. Use **bold** font for ch. NR 140, Wis. Adm. Code ES attainments or exceedances, and *italicized font* for ch. NR 140, Wis. Adm. Code, PAL attainments or exceedances.
- Use **bold** font to identify individual ch. NR 720 Wis. Adm. Code RCL exceedances. Tables should also include the corresponding groundwater pathway and direct contact pathway RCLs for comparison purposes. Cumulative hazard index and cumulative cancer risk exceedances should also be tabulated and identified on Tables A.2 and A.3.
- Do not use shading or highlighting on the analytical tables.
- Include on Data Tables the level of detection for results which are below the detection level (i.e., do not just list as no detect (ND)).
- Include the units on data tables.
- Summaries of all data **must** include information collected by previous consultants.
- Do not submit lab data sheets unless these have not been submitted in a previous report. Tabulate all data required in s. NR 716.15 (3)(c), Wis. Adm. Code, in the format required in s. NR 716.15(4)(e), Wis. Adm. Code.
- Include in Attachment A all of the following tables, in the order prescribed below, with the specific Closure Form titles noted on the separate attachments (e.g., Title: A.1. Groundwater Analytical Table; A.2. Soil Analytical Results Table, etc.).
- For required documents, each table (e.g., A.1., A.2., etc.) should be a separate Portable Document Format (PDF).

### A. Data Tables

- A.1. **Groundwater Analytical Table(s):** Table(s) showing the analytical results and collection dates for all groundwater sampling points (e.g., monitoring wells, temporary wells, sumps, extraction wells, potable wells) for which samples have been collected.
- A.2. **Soil Analytical Results Table(s):** Table(s) showing **all** soil analytical results and collection dates. Indicate if sample was collected above or below the observed low water table (unsaturated versus saturated).
- A.3. **Residual Soil Contamination Table(s):** Table(s) showing the analytical results of only the residual soil contamination at the time of closure. This table shall be a subset of table A.2 and should include only the soil sample locations that exceed an RCL. Indicate if sample was collected above or below the observed low water table (unsaturated versus saturated). Table A.3 is optional only if a total of fewer than 15 soil samples have been collected at the site.
- A.4. **Vapor Analytical Table(s):** Table(s) showing type(s) of samples, sample collection methods, analytical method, sample results, date of sample collection, time period for sample collection, method and results of leak detection, and date, method and results of communication testing.
- A.5. **Other Media of Concern (e.g., sediment or surface water):** Table(s) showing type(s) of sample, sample collection method, analytical method, sample results, date of sample collection, and time period for sample collection.
- A.6. **Water Level Elevations:** Table(s) showing all water level elevation measurements and dates from all monitoring wells. If present, free product should be noted on the table.
- A.7. **Other:** This attachment should include: 1) any available tabulated natural attenuation data; 2) data tables pertaining to engineered remedial systems that document operational history, demonstrate system performance and effectiveness, and display emissions data; and (3) any other data tables relevant to case closure not otherwise noted above. If this section is not applicable, please explain the reasons why.

## Maps, Figures and Photos (Attachment B)

### Directions for Maps, Figures and Photos:

- Provide on paper no larger than 11 x 17 inches, unless otherwise directed by the Department. Maps and figures may be submitted in a larger electronic size than 11 x 17 inches, in a PDF readable by the Adobe Acrobat Reader. However, those larger-size documents must be legible when printed.
- Prepare visual aids, including maps, plans, drawings, fence diagrams, tables and photographs according to the applicable portions of ss. NR 716.15(4), 726.09(2) and 726.11(3), (5) and (6), Wis. Adm. Code.
- Include all sample locations.
- Contour lines should be clearly labeled and defined.
- Include in Attachment B all of the following maps and figures, in the order prescribed below, with the specific Closure Form titles noted on the separate attachments (e.g., Title: B.1. Location Map; B.2. Detailed Site Map, etc.).
- For the electronic copies that are required, each map (e.g., B.1.a., B.2.a, etc.,) should be a separate PDF.
- Maps, figures and photos should be dated to reflect the most recent revision.

### B.1. Location Maps

- B.1.a. **Location Map:** A map outlining all properties within the contaminated site boundaries on a United States Geological Survey (U.S.G.S.) topographic map or plat map in sufficient detail to permit easy location of all affected and/or adjacent parcels. If groundwater standards are exceeded, include the location of all potable wells, including municipal wells, within 1200 feet of the area of contamination.
- B.1.b. **Detailed Site Map:** A map that shows all relevant features (buildings, roads, current ground surface cover, individual property boundaries for all affected properties, contaminant sources, utility lines, monitoring wells and potable wells) within the contaminated area. This map is to show the location of all contaminated public streets, and highway and railroad rights-of-way in relation to the source property and in relation to the boundaries of groundwater contamination attaining or exceeding a ch. NR 140 ES, and/or in relation to the boundaries of soil contamination attaining or exceeding a RCL. Provide parcel identification numbers for all affected properties.
- B.1.c. **RR Sites Map:** From RR Sites Map ([http://dnrmaps.wi.gov/sl/?Viewer=RR Sites](http://dnrmaps.wi.gov/sl/?Viewer=RR%20Sites)) attach a map depicting the source property, and all open and closed BRRTS sites within a half-mile radius or less of the property.

**B.2. Soil Figures**

- B.2.a. Soil Contamination:** Figure(s) showing the location of **all** identified unsaturated soil contamination. Use a single contour to show the horizontal extent of each area of contiguous soil contamination that exceeds a soil to groundwater pathway RCL as determined under ch. NR 720.Wis. Adm. Code. A separate contour line should be used to indicate the horizontal extent of each area of contiguous soil contamination that exceeds a direct contact RCL exceedances (0-4 foot depth).
- B.2.b. Residual Soil Contamination:** Figure(s) showing only the locations of soil samples where unsaturated soil contamination remains at the time of closure (locations represented in Table A.3). Use a single contour to show the horizontal extent of each area of contiguous soil contamination that exceeds a soil to groundwater pathway RCL as determined under ch. NR 720 Wis. Adm. Code. A separate contour line should be used to indicate the horizontal extent of each area of contiguous soil contamination that exceeds a direct contact RCL exceedance (0-4 foot depth).

**B.3. Groundwater Figures**

- B.3.a. Geologic Cross-Section Figure(s):** One or more cross-section diagrams showing soil types and correlations across the site, water table and piezometric elevations, and locations and elevations of geologic rock units, if encountered. Display on one or more figures all of the following:
- Source location(s) and vertical extent of residual soil contamination exceeding an RCL. Distinguish between direct contact and the groundwater pathway RCLs.
  - Source location(s) and lateral and vertical extent if groundwater contamination exceeds ch. NR 140 ES.
  - Surface features, including buildings and basements, and show surface elevation changes.
  - Any areas of active remediation within the cross section path, such as excavations or treatment zones.
  - Include a map displaying the cross-section location(s), if they are not displayed on the Detailed Site Map (Map B.1.b.)
- B.3.b. Groundwater Isoconcentration:** Figure(s) showing the horizontal extent of the post-remedial groundwater contamination exceeding a ch. NR 140, Wis. Adm. Code, PAL and/or an ES. Indicate the date and direction of groundwater flow based on the most recent sampling data.
- B.3.c. Groundwater Flow Direction:** Figure(s) representing groundwater movement at the site. If the flow direction varies by more than 20° over the history of the site, submit two groundwater flow maps showing the maximum variation in flow direction.
- B.3.d. Monitoring Wells:** Figure(s) showing all monitoring wells, with well identification number. Clearly designate any wells that: (1) are proposed to be abandoned; (2) cannot be located; (3) are being transferred; (4) will be retained for further sampling, or (5) have been abandoned.

**B.4. Vapor Maps and Other Media**

- B.4.a. Vapor Intrusion Map:** Map(s) showing all locations and results for samples taken to investigate the vapor intrusion pathway in relation to residual soil and groundwater contamination, including sub-slab, indoor air, soil vapor, soil gas, ambient air, and communication testing. Show locations and footprints of affected structures and utility corridors, and/or where residual contamination poses a future risk of vapor intrusion.
- B.4.b. Other media of concern (e.g., sediment or surface water):** Map(s) showing all sampling locations and results for other media investigation. Include the date of sample collection and identify where any standards are exceeded.
- B.4.c. Other:** Include any other relevant maps and figures not otherwise noted above. (This section may remain blank).

- B.5. Structural Impediment Photos:** One or more photographs documenting the structural impediment feature(s) which precluded a complete site investigation or remediation at the time of the closure request. The photographs should document the area that could not be investigated or remediated due to a structural impediment. The structural impediment should be indicated on Figures B.2.a and B.2.b.

**Documentation of Remedial Action (Attachment C)**

**Directions for Documentation of Remedial Action:**

- Include in Attachment C all of the following documentation, in the order prescribed below, with the specific Closure Form titles noted on the separate attachments (e.g., Title: C.1. Site Investigation Documentation; C.2. Investigative Waste, etc.).
- If the documentation requested below has already been submitted to the DNR, please note the title and date of the report for that particular document requested.
  - C.1. **Site investigation documentation**, that has not otherwise been submitted with the Site Investigation Report.
  - C.2. **Investigative waste** disposal documentation.
  - C.3. Provide a **description of the methodology** used along with all supporting documentation if the RCLs are different than those contained in the Department's RCL Spreadsheet available at: <http://dnr.wi.gov/topic/Brownfields/Professionals.html>.
  - C.4. **Construction documentation** or as-built report for any constructed remedial action or portion of, or interim action specified in s. NR 724.02(1), Wis. Adm. Code.
  - C.5. **Decommissioning of Remedial Systems.** Include plans to properly abandon any systems or equipment.
  - C.6. **Other.** Include any other relevant documentation not otherwise noted above (This section may remain blank).

**Maintenance Plan(s) and Photographs (Attachment D)**

**Directions for Maintenance Plans and Photographs:**

Attach a maintenance plan for each affected property (source property, each off-source affected property) with continuing obligations requiring future maintenance (e.g., direct contact, groundwater protection, vapor intrusion). See Site Summary section 5 for all affected property(s) requiring a maintenance plan. Maintenance plan guidance and/or templates for: 1) Cover/barrier systems; 2) Vapor intrusion; and 3) Monitoring wells, can be found at: <http://dnr.wi.gov/topic/Brownfields/Professionals.html#tabx3>

- D.1. Descriptions of maintenance action(s) required for maximizing effectiveness of the engineered control, vapor mitigation system, feature or other action for which maintenance is required:**
- Provide brief descriptions of the type, depth and location of residual contamination.

- Provide a description of the system/cover/barrier/monitoring well(s) to be maintained.
  - Provide a description of the maintenance actions required for maximizing effectiveness of the engineered control, vapor mitigation system, feature or other action for which maintenance is required.
  - Provide contact information, including the name, address and phone number of the individual or facility who will be conducting the maintenance.
- D.2. **Location map(s) which show(s):** (1) the feature that requires maintenance; (2) the location of the feature(s) that require(s) maintenance - on and off the source property; (3) the extent of the structure or feature(s) to be maintained, in relation to other structures or features on the site; (4) the extent and type of residual contamination; and (5) all property boundaries.
- D.3. **Photographs** for site or facilities with a cover or other performance standard, a structural impediment or a vapor mitigation system, include one or more photographs documenting the condition and extent of the feature at the time of the closure request. Pertinent features shall be visible and discernible. Photographs shall be submitted with a title related to the site name and location, and the date on which it was taken.
- D.4. **Inspection log**, to be maintained on site, or at a location specified in the maintenance plan or approval letter. The inspection and maintenance log is found at: <http://dnr.wi.gov/files/PDF/forms/4400/4400-305.pdf>.

#### Monitoring Well Information (Attachment E)

##### Directions for Monitoring Well Information:

For all wells that will remain in use, be transferred to another party, or that could not be located; attach monitoring well construction and development forms (DNR Form 4400-113 A and B: [http://dnr.wi.gov/topic/groundwater/documents/forms/4400\\_113\\_1\\_2.pdf](http://dnr.wi.gov/topic/groundwater/documents/forms/4400_113_1_2.pdf))

##### Select One:

- No monitoring wells were installed as part of this response action.
- All monitoring wells have been located and will be properly abandoned upon the DNR granting conditional closure to the site
- Select One or More:**
- Not all monitoring wells can be located, despite good faith efforts. Attachment E must include a description of efforts made to locate the wells.
- One or more wells will remain in use at the site after this closure. Attachment E must include documentation as to the reason (s) the well(s) will remain in use. When one or more monitoring wells will remain in use this is considered a continuing obligation and a maintenance plan will be required and must be included in Attachment D.
- One or more monitoring wells will be transferred to another owner upon case closure being granted. Attachment E should include documentation identifying the name, address and email for the new owner(s). Provide documentation from the party accepting future responsibility for monitoring well(s).

#### Source Legal Documents (Attachment F)

##### Directions for Source Legal Documents:

Label documents with the specific closure form titles (e.g., F.1. Deed, F.2. Certified Survey Map, etc.). Include all of the following documents, in the order listed:

- F.1. **Deed:** The most recent deed with legal description clearly listed.
- Note: If a property has been purchased with a land contract and the purchaser has not yet received a deed, a copy of the land contract which includes the legal description shall be submitted instead of the most recent deed. If the property has been inherited, written documentation of the property transfer should be submitted along with the most recent deed.*
- F.2. **Certified Survey Map:** A copy of the certified survey map or the relevant section of the recorded plat map for those properties where the legal description in the most recent deed refers to a certified survey map or a recorded plat map. In cases where the certified survey map or recorded plat map are not legible or are unavailable, a copy of a parcel map from a county land information office may be substituted. A copy of a parcel map from a county land information office shall be legible, and the parcels identified in the legal description shall be clearly identified and labeled with the applicable parcel identification number.
- F.3. **Verification of Zoning:** Documentation (e.g., official zoning map or letter from municipality) of the property's or properties' current zoning status.
- F.4. **Signed Statement:** A statement signed by the Responsible Party (RP), which states that he or she believes that the attached legal description(s) accurately describe(s) the correct contaminated property or properties. This section applies to the source property only. Signed statements for Other Affected Properties should be included in Attachment G.

**Notifications to Owners of Affected Properties (Attachment G)**

**Directions for Notifications to Owners of Affected Properties:**

Complete the table on the following page for sites which require notification to owners of affected properties pursuant to ch. 292, Wis. Stats. and ch. NR 725 and 726, Wis. Adm. Code. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records law [ss. 19.31- 19.39, Wis. Stats.]. The DNR's "Guidance on Case Closure and the Requirements for Managing Continuing Obligations" (PUB-RR-606) lists specific notification requirements <http://dnr.wi.gov/files/PDF/pubs/rr/RR606.pdf>.

State law requires that the responsible party provide a 30-day, written advance notification to certain persons prior to applying for case closure. This requirement applies if: (1) the person conducting the response action does not own the source property; (2) the contamination has migrated onto another property; and/or (3) one or more monitoring wells will not be abandoned. Use form 4400-286, Notification of Continuing Obligations and Residual Contamination, at <http://dnr.wi.gov/files/PDF/forms/4400/4400-286.pdf>

Include a copy of each notification sent and accompanying proof of delivery, i.e., return receipt or signature confirmation. (These items will not be placed on the GIS Registry.)

Include the following documents for each property, keeping each property's documents grouped together and labeled with the letter G and the corresponding ID number from the table on the following page. (Source Property documents should only be included in Attachment F):

- **Deed:** The most recent deed with legal descriptions clearly listed for all affected properties.  
*Note: If a property has been purchased with a land contract and the purchaser has not yet received a deed, a copy of the land contract which includes the legal description shall be submitted instead of the most recent deed. If the property has been inherited, written documentation of the property transfer should be submitted along with the most recent deed.*
- **Certified Survey Map:** A copy of the certified survey map or the relevant section of the recorded plat map for those properties where the legal description in the most recent deed refers to a certified survey map or a recorded plat map. In cases where the certified survey map or recorded plat map are not legible or are unavailable, a copy of a parcel map from a county land information office may be substituted. A copy of a parcel map from a county land information office shall be legible, and the parcels identified in the legal description shall be clearly identified and labeled with the applicable parcel identification number.
- **Verification of Zoning:** Documentation (e.g., official zoning map or letter from municipality) of the property's or properties' current zoning status.
- **Signed Statement:** A statement signed by the Responsible Party (RP), which states that he or she believes the attached legal description(s) accurately describe(s) the correct contaminated property or properties.



**Signatures and Findings for Closure Determination**

Check the correct box for this case closure request, and have either a professional engineer or a hydrogeologist, as defined in ch. NR 712, Wis. Adm. Code, sign this document.

A response action(s) for this site addresses groundwater contamination (including natural attenuation remedies).

The response action(s) for this site addresses media other than groundwater.

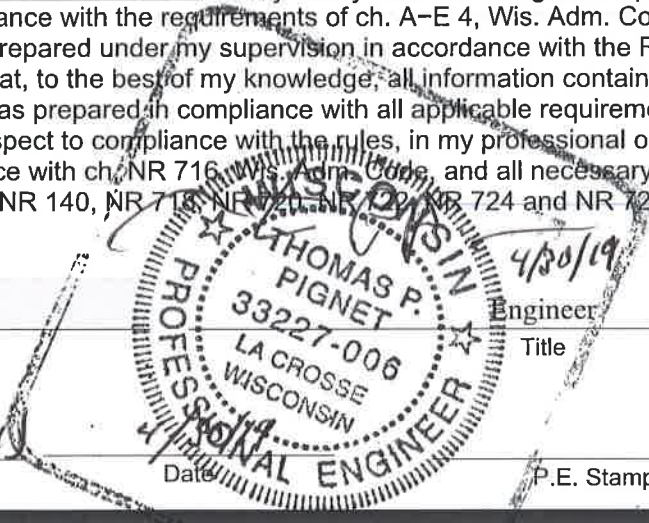
**Engineering Certification**

I, Tom Pignet hereby certify that I am a registered professional engineer in the State of Wisconsin, registered in accordance with the requirements of ch. A-E 4, Wis. Adm. Code; that this case closure request has been prepared by me or prepared under my supervision in accordance with the Rules of Professional Conduct in ch. A-E 8, Wis. Adm. Code; and that, to the best of my knowledge, all information contained in this case closure request is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code. Specifically, with respect to compliance with the rules, in my professional opinion a site investigation has been conducted in accordance with ch. NR 716, Wis. Adm. Code, and all necessary remedial actions have been completed in accordance with chs. NR 140, NR 718, NR 720, NR 722, NR 724 and NR 726, Wis. Adm. Codes."

Thomas Pignet  
Printed Name

Engineer  
Title

Thomas Pignet (reviewed)  
Signature



33227-006

P.E. Stamp and Number

**Hydrogeologist Certification**

I, Ronald J. Anderson hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this case closure request is correct and the document was prepared by me or prepared by me or prepared under my supervision and, in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code. Specifically, with respect to compliance with the rules, in my professional opinion a site investigation has been conducted in accordance with ch. NR 716, Wis. Adm. Code, and all necessary remedial actions have been completed in accordance with chs. NR 140, NR 718, NR 720, NR 722, NR 724 and NR 726, Wis. Adm. Codes."

Ronald J. Anderson  
Printed Name

Senior Hydrogeologist/Project Manager  
Title

Ronald J. Anderson  
Signature

4/30/19  
Date

## **Attachment A/Data Tables**

### **A.1 Groundwater Analytical Tables**

### **A.2 Soil Analytical Tables**

### **A.3 Residual Soil Contamination Table**

### **A.4 Vapor Analytical Table**

A.5 Other Media of Concern - No surface waters or sediments were assessed as part of the site investigation.

### **A.6 Water Level Elevations**

### **A.7 Other – Hydraulic Conductivity Calculations, Natural Attenuation Parameters**

**A.1 Groundwater Analytical Table**  
**Osceola Oil Bulk Plant - Milltown BRRTS #02-49-483615**

**Well MW-1**

**PVC Elevation =** 1234.39 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to water from top of PVC (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethylbenzenes (ppb)	Xylene (Total) (ppb)
03/29/18	1203.83	30.56	<0.9	<0.22	<0.26	<0.28	<2.1	<0.19	<1.43	<0.72
06/14/18	1204.09	30.30	<0.9	<0.22	<0.53	<0.57	0.0267	<0.45	<1.48	<1.58
<b>ENFORCEMENT STANDARD ES = Bold</b>			<b>15</b>	<b>5</b>	<b>700</b>	<b>60</b>	<b>100</b>	<b>800</b>	<b>480</b>	<b>2000</b>
<b>PREVENTIVE ACTION LIMIT PAL = Italics</b>			<i>1.5</i>	<i>0.5</i>	<i>140</i>	<i>12</i>	<i>10</i>	<i>160</i>	<i>96</i>	<i>400</i>

(ppb) = parts per billion (ppm) = parts per million  
 NS = not sampled NM = not measured  
 Note: Elevations are presented in feet mean sea level (msl).

**Well MW-2**

**PVC Elevation =** 1234.55 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to water from top of PVC (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethylbenzenes (ppb)	Xylene (Total) (ppb)
03/29/18	1203.93	30.62	<0.9	<0.22	<0.26	<0.28	<2.1	<0.19	<1.43	<0.72
06/14/18	1204.20	30.35	<0.9	<0.22	<0.53	<0.57	<0.023	<0.45	<1.48	<1.58
<b>ENFORCEMENT STANDARD ES = Bold</b>			<b>15</b>	<b>5</b>	<b>700</b>	<b>60</b>	<b>100</b>	<b>800</b>	<b>480</b>	<b>2000</b>
<b>PREVENTIVE ACTION LIMIT PAL = Italics</b>			<i>1.5</i>	<i>0.5</i>	<i>140</i>	<i>12</i>	<i>10</i>	<i>160</i>	<i>96</i>	<i>400</i>

(ppb) = parts per billion (ppm) = parts per million  
 NS = not sampled NM = not measured  
 Note: Elevations are presented in feet mean sea level (msl).

**Well MW-3**

**PVC Elevation =** 1234.03 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to water from top of PVC (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethylbenzenes (ppb)	Xylene (Total) (ppb)
03/29/18	1203.77	30.26	<0.9	<0.22	<0.26	<0.28	<2.1	<0.19	<1.43	<0.72
06/14/18	1204.02	30.01	<0.9	<0.22	<0.53	<0.57	<0.023	<0.45	<1.48	<1.58
<b>ENFORCEMENT STANDARD ES = Bold</b>			<b>15</b>	<b>5</b>	<b>700</b>	<b>60</b>	<b>100</b>	<b>800</b>	<b>480</b>	<b>2000</b>
<b>PREVENTIVE ACTION LIMIT PAL = Italics</b>			<i>1.5</i>	<i>0.5</i>	<i>140</i>	<i>12</i>	<i>10</i>	<i>160</i>	<i>96</i>	<i>400</i>

(ppb) = parts per billion (ppm) = parts per million  
 NS = not sampled NM = not measured  
 Note: Elevations are presented in feet mean sea level (msl).



**A.1 Groundwater Analytical Table**  
**Osceola Oil Bulk Plant - Milltown BRRTS #02-49-483615**

**Well MW-4**

**PVC Elevation =** 1232.90 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to water from top of PVC (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethylbenzenes (ppb)	Xylene (Total) (ppb)
03/29/18	1203.91	28.99	<0.9	<0.22	<0.26	<0.28	<2.1	<0.19	<1.43	<0.72
06/14/18	1204.18	28.72	<0.9	<0.22	<0.53	<0.57	<0.023	<0.45	<1.48	<1.58
<b>ENFORCEMENT STANDARD ES = Bold</b>			<b>15</b>	<b>5</b>	<b>700</b>	<b>60</b>	<b>100</b>	<b>800</b>	<b>480</b>	<b>2000</b>
<b>PREVENTIVE ACTION LIMIT PAL = Italics</b>			<i>1.5</i>	<i>0.5</i>	<i>140</i>	<i>12</i>	<i>10</i>	<i>160</i>	<i>96</i>	<i>400</i>

(ppb) = parts per billion (ppm) = parts per million  
 NS = not sampled NM = not measured  
 Note: Elevations are presented in feet mean sea level (msl).

**Well MW-5**

**PVC Elevation =** 1234.68 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to water from top of PVC (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethylbenzenes (ppb)	Xylene (Total) (ppb)
03/29/18	1203.91	30.77	<0.9	<0.22	<0.26	<0.28	<2.1	<0.19	<1.43	<0.72
06/14/18	1204.14	30.54	<0.9	<0.22	<0.53	<0.57	<0.023	<0.45	<1.48	<1.58
<b>ENFORCEMENT STANDARD ES = Bold</b>			<b>15</b>	<b>5</b>	<b>700</b>	<b>60</b>	<b>100</b>	<b>800</b>	<b>480</b>	<b>2000</b>
<b>PREVENTIVE ACTION LIMIT PAL = Italics</b>			<i>1.5</i>	<i>0.5</i>	<i>140</i>	<i>12</i>	<i>10</i>	<i>160</i>	<i>96</i>	<i>400</i>

(ppb) = parts per billion (ppm) = parts per million  
 NS = not sampled NM = not measured  
 Note: Elevations are presented in feet mean sea level (msl).

**Well MW-6**

**PVC Elevation =** 1234.95 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to water from top of PVC (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethylbenzenes (ppb)	Xylene (Total) (ppb)
03/29/18	1203.75	31.20	<0.9	<0.22	<0.26	<0.28	<2.1	<0.19	<1.43	<0.72
06/14/18	1204.04	30.91	<0.9	<0.22	<0.53	<0.57	<0.023	<0.45	<1.48	<1.58
<b>ENFORCEMENT STANDARD ES = Bold</b>			<b>15</b>	<b>5</b>	<b>700</b>	<b>60</b>	<b>100</b>	<b>800</b>	<b>480</b>	<b>2000</b>
<b>PREVENTIVE ACTION LIMIT PAL = Italics</b>			<i>1.5</i>	<i>0.5</i>	<i>140</i>	<i>12</i>	<i>10</i>	<i>160</i>	<i>96</i>	<i>400</i>

(ppb) = parts per billion (ppm) = parts per million  
 NS = not sampled NM = not measured  
 Note: Elevations are presented in feet mean sea level (msl).

**A.1 Groundwater Analytical Table  
(PAH)  
Osceola Oil Bulk Plant - Milltown BRRTS #02-49-483615**

**Well MW-1**

Date	Ace-naphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo(a)anthracene (ppb)	Benzo(a)pyrene (ppb)	Benzo(b)fluoranthene (ppb)	Benzo(g,h,i)Perylene (ppb)	Benzo(k)fluoranthene (ppb)	Chrysene (ppb)	Dibenzo(a,h)anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno(1,2,3-cd)pyrene (ppb)	1-Methylnaphthalene (ppb)	2-Methylnaphthalene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
3/29/2018	<0.008	<0.009	<0.009	<0.017	<0.017	<0.02	<0.011	<0.014	<0.019	<0.01	<0.031	<0.011	<0.012	<0.0239	<0.04	<0.04	<0.025	<0.03
6/14/2018	<0.008	<0.009	<0.009	<0.017	<0.017	<0.02	<0.011	<0.014	<0.019	<0.01	<0.031	<0.011	<0.012	<0.0239	<0.0236	0.0267	<0.025	<0.03
<b>ENFORCE MENT STANDARD = ES - Bold</b>			<b>3000</b>	-	<b>0.2</b>	<b>0.2</b>	-	-	<b>0.2</b>	-	<b>400</b>	<b>400</b>	-	-	-	<b>100</b>	-	<b>250</b>
<b>PREVENTIVE ACTION LIMIT = PAL - Italics</b>			<i>600</i>	-	<i>0.02</i>	<i>0.02</i>	-	-	<i>0.02</i>	-	<i>80</i>	<i>80</i>	-	-	-	<i>10</i>	-	<i>50</i>

(ppb) = parts per billion (ppm) = parts per million  
 ns = not sampled nm = not measured  
 Note: Elevations are presented in feet mean sea level (msl).

**Well MW-2**

Date	Ace-naphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo(a)anthracene (ppb)	Benzo(a)pyrene (ppb)	Benzo(b)fluoranthene (ppb)	Benzo(g,h,i)Perylene (ppb)	Benzo(k)fluoranthene (ppb)	Chrysene (ppb)	Dibenzo(a,h)anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno(1,2,3-cd)pyrene (ppb)	1-Methylnaphthalene (ppb)	2-Methylnaphthalene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
3/29/2018	<0.008	<0.009	<0.009	<0.017	<0.017	<0.02	<0.011	<0.014	<0.019	<0.01	<0.031	<0.011	<0.012	<0.0239	<0.04	<0.04	<0.025	<0.03
6/14/2018	<0.008	<0.009	<0.009	<0.017	<0.017	<0.02	<0.011	<0.014	<0.019	<0.01	<0.031	<0.011	<0.012	<0.0239	<0.0236	<0.023	<0.025	<0.03
<b>ENFORCE MENT STANDARD = ES - Bold</b>			<b>3000</b>	-	<b>0.2</b>	<b>0.2</b>	-	-	<b>0.2</b>	-	<b>400</b>	<b>400</b>	-	-	-	<b>100</b>	-	<b>250</b>
<b>PREVENTIVE ACTION LIMIT = PAL - Italics</b>			<i>600</i>	-	<i>0.02</i>	<i>0.02</i>	-	-	<i>0.02</i>	-	<i>80</i>	<i>80</i>	-	-	-	<i>10</i>	-	<i>50</i>

(ppb) = parts per billion (ppm) = parts per million  
 ns = not sampled nm = not measured  
 Note: Elevations are presented in feet mean sea level (msl).

**Well MW-3**

Date	Ace-naphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo(a)anthracene (ppb)	Benzo(a)pyrene (ppb)	Benzo(b)fluoranthene (ppb)	Benzo(g,h,i)Perylene (ppb)	Benzo(k)fluoranthene (ppb)	Chrysene (ppb)	Dibenzo(a,h)anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno(1,2,3-cd)pyrene (ppb)	1-Methylnaphthalene (ppb)	2-Methylnaphthalene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
3/29/2018	<0.008	<0.009	<0.009	<0.017	<0.017	<0.02	<0.011	<0.014	<0.019	<0.01	<0.031	<0.011	<0.012	<0.0239	<0.04	<0.04	<0.025	<0.03
6/14/2018	<0.008	<0.009	<0.009	<0.017	<0.017	<0.02	<0.011	<0.014	<0.019	<0.01	<0.031	<0.011	<0.012	<0.0239	<0.0236	<0.023	<0.025	<0.03
<b>ENFORCE MENT STANDARD = ES - Bold</b>			<b>3000</b>	-	<b>0.2</b>	<b>0.2</b>	-	-	<b>0.2</b>	-	<b>400</b>	<b>400</b>	-	-	-	<b>100</b>	-	<b>250</b>
<b>PREVENTIVE ACTION LIMIT = PAL - Italics</b>			<i>600</i>	-	<i>0.02</i>	<i>0.02</i>	-	-	<i>0.02</i>	-	<i>80</i>	<i>80</i>	-	-	-	<i>10</i>	-	<i>50</i>

(ppb) = parts per billion (ppm) = parts per million  
 ns = not sampled nm = not measured  
 Note: Elevations are presented in feet mean sea level (msl).

A.1 Groundwater Analytical Table

(PAH)

Osceola Oil Bulk Plant - Milltown BRRS #02-49-483615

Well MW-4

Date	Ace-naphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo(a)anthracene (ppb)	Benzo(a)pyrene (ppb)	Benzo(b)fluoranthene (ppb)	Benzo(g,h,i)Perylene (ppb)	Benzo(k)fluoranthene (ppb)	Chrysene (ppb)	Dibenzo(a,h)anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno(1,2,3-cd)pyrene (ppb)	1-Methylnaphthalene (ppb)	2-Methylnaphthalene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
3/29/2018	0.0111	0.0193	0.0142	0.0284	0.0213	0.034	0.0168	0.0151	0.0228	<0.01	<0.031	0.0165	0.0159	<0.0239	<0.04	<0.04	<0.025	<0.03
6/14/2018	<0.008	<0.009	<0.009	<0.017	<0.017	<0.02	0.0141	<0.014	<0.019	<0.01	<0.031	<0.011	<0.012	<0.0239	<0.0236	<0.023	<0.025	<0.03
ENFORCEMENT STANDARD = <b>ES - Bold</b>			3000	-	0.2	0.2	-	-	0.2	-	400	400	-	-	-	100	-	250
PREVENTIVE ACTION LIMIT = <b>PAL - Italics</b>			600	-	0.02	0.02	-	-	0.02	-	80	80	-	-	-	10	-	50

(ppb) = parts per billion (ppm) = parts per million  
 ns = not sampled nm = not measured

Note: Elevations are presented in feet mean sea level (msl).

Well MW-5

Date	Ace-naphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo(a)anthracene (ppb)	Benzo(a)pyrene (ppb)	Benzo(b)fluoranthene (ppb)	Benzo(g,h,i)Perylene (ppb)	Benzo(k)fluoranthene (ppb)	Chrysene (ppb)	Dibenzo(a,h)anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno(1,2,3-cd)pyrene (ppb)	1-Methylnaphthalene (ppb)	2-Methylnaphthalene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
3/29/2018	<0.008	0.0174	<0.009	<0.017	<0.017	<0.02	<0.011	<0.014	<0.019	<0.01	<0.031	0.013	<0.012	<0.0239	<0.04	<0.04	<0.025	<0.03
6/14/2018	<0.008	<0.009	<0.009	<0.017	<0.017	<0.02	<0.011	<0.014	<0.019	<0.01	<0.031	<0.011	<0.012	<0.0239	<0.0236	<0.023	<0.025	<0.03
ENFORCEMENT STANDARD = <b>ES - Bold</b>			3000	-	0.2	0.2	-	-	0.2	-	400	400	-	-	-	100	-	250
PREVENTIVE ACTION LIMIT = <b>PAL - Italics</b>			600	-	0.02	0.02	-	-	0.02	-	80	80	-	-	-	10	-	50

(ppb) = parts per billion (ppm) = parts per million  
 ns = not sampled nm = not measured

Note: Elevations are presented in feet mean sea level (msl).

Well MW-6

Date	Ace-naphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo(a)anthracene (ppb)	Benzo(a)pyrene (ppb)	Benzo(b)fluoranthene (ppb)	Benzo(g,h,i)Perylene (ppb)	Benzo(k)fluoranthene (ppb)	Chrysene (ppb)	Dibenzo(a,h)anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno(1,2,3-cd)pyrene (ppb)	1-Methylnaphthalene (ppb)	2-Methylnaphthalene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
3/29/2018	<0.008	0.0278	0.0094	0.0268	0.0225	0.036	0.0255	<0.014	0.0213	0.0133	0.036	0.0214	0.045	<0.0239	<0.04	<0.04	0.0271	0.035
6/14/2018	<0.008	<0.009	<0.009	<0.017	<0.017	<0.02	<0.011	<0.014	<0.019	<0.01	<0.031	<0.011	<0.012	<0.0239	<0.0236	<0.023	<0.025	<0.03
ENFORCEMENT STANDARD = <b>ES - Bold</b>			3000	-	0.2	0.2	-	-	0.2	-	400	400	-	-	-	100	-	250
PREVENTIVE ACTION LIMIT = <b>PAL - Italics</b>			600	-	0.02	0.02	-	-	0.02	-	80	80	-	-	-	10	-	50

(ppb) = parts per billion (ppm) = parts per million  
 ns = not sampled nm = not measured

Note: Elevations are presented in feet mean sea level (msl).

**A.1 Groundwater Analytical Table**

(Geoprobe)

**Osceola Oil Bulk Plant - Milltown BRRTS #02-49-483615**

Sample ID	Date	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethylbenzenes (ppb)	Xylene (Total) (ppb)
G-1-W	05/24/17	<0.27	5.6	<0.43	23.3	<0.33	45.81	13.9
G-2-W	05/24/17	<0.27	<0.56	<0.43	<1.7	<0.33	<1.14	<1.71
G-3-W	05/24/17	2.95	<0.56	<0.43	<1.7	0.45	<1.14	<1.71
G-6-W	05/24/17	<0.27	<0.56	<0.43	<1.7	<0.33	<1.14	<1.71
G-7-W	05/24/17	<0.27	<0.56	<0.43	<1.7	<0.33	<1.14	<1.71
G-8-W	05/24/17	<0.27	1.85	<0.43	5.9	<0.33	13.13	6.55
G-9-W	05/24/17	<0.27	<0.56	<0.43	<1.7	<0.33	<1.14	<1.71
G-10-W	05/24/17	<0.27	<0.56	<0.43	1.92	<0.33	3.32	<1.71
G-12-W	05/25/17	<0.27	<0.56	<0.43	<1.7	<0.33	<1.14	<1.71
G-13-W	05/25/17	0.92	10.2	<0.43	3.3	6.3	37.5	49.7
G-14-W	05/25/17	<0.27	1.07	<0.43	<1.7	0.65	2.11-2.69	4.11
<b>ENFORCEMENT STANDARD ES = Bold</b>		<b>5</b>	<b>700</b>	<b>60</b>	<b>100</b>	<b>800</b>	<b>480</b>	<b>2000</b>
<i>PREVENTIVE ACTION LIMIT PAL = Italics</i>		<i>0.5</i>	<i>140</i>	<i>12</i>	<i>10</i>	<i>160</i>	<i>96</i>	<i>400</i>

NS = Not Sampled

(ppb) = parts per billion

(ppm) = parts per million

DRO = Diesel Range Organics

GRO = Gasoline Range Organics

A.1 Groundwater Analytical Table  
 Osceola Oil Bulk Plant - Milltown BRRS #02-49-483615

Well Sampling Conducted on: March 29, 2018

VOC's Well Name	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	ENFORCE MENT	PREVENTIVE ACTION
							STANDARD = ES - Bold	LIMIT = PAL - <i>Italics</i>
Lead, dissolved/ppb	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<b>15</b>	<i>1.5</i>
Benzene/ppb	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	<b>5</b>	<i>0.5</i>
Bromobenzene/ppb	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	==	==
Bromodichloromethane/ppb	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	<b>0.6</b>	<i>0.06</i>
Bromoform/ppb	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	<b>4.4</b>	<i>0.44</i>
tert-Butylbenzene/ppb	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	==	==
sec-Butylbenzene/ppb	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79	==	==
n-Butylbenzene/ppb	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	==	==
Carbon Tetrachloride/ppb	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	<b>5</b>	<i>0.5</i>
Chlorobenzene/ppb	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	==	==
Chloroethane/ppb	< 0.61	< 0.61	< 0.61	< 0.61	< 0.61	< 0.61	<b>400</b>	<i>80</i>
Chloroform/ppb	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	<b>6</b>	<i>0.6</i>
Chloromethane/ppb	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	<b>30</b>	<i>3</i>
2-Chlorotoluene/ppb	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	==	==
4-Chlorotoluene/ppb	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	==	==
1,2-Dibromo-3-chloropropane/ppb	< 2.96	< 2.96	< 2.96	< 2.96	< 2.96	< 2.96	<b>0.2</b>	<i>0.02</i>
Dibromochloromethane/ppb	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	<b>60</b>	<i>6</i>
1,4-Dichlorobenzene/ppb	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	<b>75</b>	<i>15</i>
1,3-Dichlorobenzene/ppb	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	<b>600</b>	<i>120</i>
1,2-Dichlorobenzene/ppb	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	<b>600</b>	<i>60</i>
Dichlorodifluoromethane/ppb	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	<b>1000</b>	<i>200</i>
1,2-Dichloroethane/ppb	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	<b>5</b>	<i>0.5</i>
1,1-Dichloroethane/ppb	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	<b>850</b>	<i>85</i>
1,1-Dichloroethene/ppb	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	<b>7</b>	<i>0.7</i>
cis-1,2-Dichloroethene/ppb	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	<b>70</b>	<i>7</i>
trans-1,2-Dichloroethene/ppb	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	<b>100</b>	<i>20</i>
1,2-Dichloropropane/ppb	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	<b>5</b>	<i>0.5</i>
1,3-Dichloropropane/ppb	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	==	==
trans-1,3-Dichloropropene/ppb	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	==	==
cis-1,3-Dichloropropene/ppb	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	<b>0.4</b>	<i>0.04</i>
Di-isopropyl ether/ppb	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	==	==
EDB (1,2-Dibromoethane)/ppb	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	<b>0.05</b>	<i>0.005</i>
Ethylbenzene/ppb	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	<b>700</b>	<i>140</i>
Hexachlorobutadiene/ppb	< 1.34	< 1.34	< 1.34	< 1.34	< 1.34	< 1.34	==	==
Isopropylbenzene/ppb	< 0.78	< 0.78	< 0.78	< 0.78	< 0.78	< 0.78	==	==
p-Isopropyltoluene/ppb	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	==	==
Methylene chloride/ppb	< 1.32	< 1.32	< 1.32	< 1.32	< 1.32	< 1.32	<b>5</b>	<i>0.5</i>
Methyl tert-butyl ether (MTBE)/ppb	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	<b>60</b>	<i>12</i>
Naphthalene/ppb	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	<b>100</b>	<i>10</i>
n-Propylbenzene/ppb	< 0.61	< 0.61	< 0.61	< 0.61	< 0.61	< 0.61	==	==
1,1,2,2-Tetrachloroethane/ppb	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	<b>0.2</b>	<i>0.02</i>
1,1,1,2-Tetrachloroethane/ppb	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	<b>70</b>	<i>7</i>
Tetrachloroethene (PCE)/ppb	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	<b>5</b>	<i>0.5</i>
Toluene/ppb	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	<b>800</b>	<i>160</i>
1,2,4-Trichlorobenzene/ppb	< 1.15	< 1.15	< 1.15	< 1.15	< 1.15	< 1.15	<b>70</b>	<i>14</i>
1,2,3-Trichlorobenzene/ppb	< 1.71	< 1.71	< 1.71	< 1.71	< 1.71	< 1.71	==	==
1,1,1-Trichloroethane/ppb	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	<b>200</b>	<i>40</i>
1,1,2-Trichloroethane/ppb	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	<b>5</b>	<i>0.5</i>
Trichloroethene (TCE)/ppb	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	<b>5</b>	<i>0.5</i>
Trichlorofluoromethane/ppb	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	==	==
1,2,4-Trimethylbenzene/ppb	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	==	==
1,3,5-Trimethylbenzene/ppb	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	<b>Total TMB's 480</b>	<i>Total TMB's 96</i>
Vinyl Chloride/ppb	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	<b>0.2</b>	<i>0.02</i>
m&p-Xylene/ppb	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	==	==
o-Xylene/ppb	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	<b>Total Xylenes 2000</b>	<i>Total Xylenes 400</i>

NS = not sampled, NM = Not Measured  
 Q = Analyte detected above laboratory method detection limit but below practical quantitation limit,  
 = = No Exceedences  
 (ppb) = parts per billion  
 "J" Flag: Analyte detected between LOD and LOQ LOD Limit of Detection LOQ Limit of Quantitation

A.2 Soil Analytical Results Table  
Osceola Oil Bulk Plant - Milltown BRRTS #02-49-483615

Sample ID	Depth (feet)	Saturation U/S	Date	PID	Lead (ppm)	DRO (ppm)	GRO (ppm)	Benzene (ppm)	Ethyl Benzene (ppm)	MTBE (ppm)	Naphthalene (ppm)	Toluene (ppm)	1,2,4-Trime-thylbenzene (ppm)	1,3,5-Trime-thylbenzene (ppm)	Xylene (Total) (ppm)	Other VOC's (ppb)	DIRECT CONTACT PVOC & PAH COMBINED		
																	Exceedance Count	Hazard Index	Cumulative Cancer Risk
G-1-1	3.5	U	05/24/17	0.6	7.54	NS	NS	<0.025	<0.025	<0.025	<0.0153	<0.025	<0.025	<0.025	<0.075	NS	0		
G-1-2	7	U	05/24/17	518	3.69	NS	NS	<0.3	<0.35	<0.6	<0.94	<0.32	<0.25	<0.32	<1.16	SEE VOC SHEET			
G-1-3								NO RECOVERY											
G-1-4	16	U	05/24/17	1.7	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-1-5	20	U	05/24/17	2.9				NOT SAMPLED											
G-1-6	24	U	05/24/17	4.0	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-1-7	28	U	05/24/17	4.1				NOT SAMPLED											
G-1-8	30	U	05/24/17	205	NS	NS	NS	<0.025	0.061	<0.025	4.1	<0.025	1.25	0.281	0.251	NS			
G-2-1	3.5	U	05/24/17	3.1	7.23	NS	NS	<0.025	<0.025	<0.025	0.0262	<0.025	0.249	0.37	<0.075	NS	0	0.0074	1.2E-06
G-2-2	8	U	05/24/17	3.3				NOT SAMPLED											
G-2-3	12	U	05/24/17	2.9	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-2-4	16	U	05/24/17	3.5				NOT SAMPLED											
G-2-5	20	U	05/24/17	3.4	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-2-6	24	U	05/24/17	2.7				NOT SAMPLED											
G-2-7	28	U	05/24/17	3.6				NOT SAMPLED											
G-2-8	30	S	05/24/17	6.3	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-3-1	3.5	U	05/24/17	2.9	5.51	NS	NS	<0.025	<0.025	<0.025	<0.0153	0.11	0.050	<0.025	0.185	NS	0	0.0004	
G-3-2	8	U	05/24/17	2.7				NOT SAMPLED											
G-3-3	12	U	05/24/17	1.5	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-3-4	16	U	05/24/17	3.4				NOT SAMPLED											
G-3-5	20	U	05/24/17	2.5	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-3-6	24	U	05/24/17	3.5				NOT SAMPLED											
G-3-7	28	U	05/24/17	3.8				NOT SAMPLED											
G-3-8	30	S	05/24/17	3.8	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-4-1	3.5	U	05/24/17	4.0	53.90	NS	NS	<0.025	<0.025	<0.025	<0.0153	<0.025	<0.025	<0.025	<0.075	NS	0	0.1380	7.4E-07
G-4-2	8	U	05/24/17	3.6				NOT SAMPLED											
G-4-3	12	U	05/24/17	3.2				NOT SAMPLED											
G-4-4	16	U	05/24/17	5.0	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-5-1	4	U	05/24/17	3.8				NOT SAMPLED											
G-5-2	8	U	05/24/17	2.5				NOT SAMPLED											
G-5-3	10	U	05/24/17	2.4				NOT SAMPLED											
G-6-1	3.5	U	05/24/17	4.3	12.30	NS	NS	<0.025	<0.025	<0.025	<0.0153	<0.025	<0.025	<0.025	<0.075	NS	0	0.0015	3.0E-07
G-6-2	8	U	05/24/17	3.9				NOT SAMPLED											
G-6-3	12	U	05/24/17	2.8				NOT SAMPLED											
G-6-4	16	U	05/24/17	4.8	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-6-5	20	U	05/24/17	4.1				NOT SAMPLED											
G-6-6	24	U	05/24/17	4.1				NOT SAMPLED											
G-6-7	28	U	05/24/17	2.8				NOT SAMPLED											
G-6-8	30	S	05/24/17	3.2	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-7-1	3.5	U	05/24/17	2.8	8.40	NS	NS	<0.025	<0.025	<0.025	<0.0153	<0.025	<0.025	<0.025	<0.075	NS	0		
G-7-2	8	U	05/24/17	3.3				NOT SAMPLED											
G-7-3	12	U	05/24/17	3.1				NOT SAMPLED											
G-7-4	16	U	05/24/17	3.7	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-7-5	20	U	05/24/17	2.6				NOT SAMPLED											
G-7-6	24	U	05/24/17	3.8				NOT SAMPLED											
G-7-7	28	U	05/24/17	4.8				NOT SAMPLED											
G-7-8	30	S	05/24/17	3.8	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-8-1	3.5	U	05/24/17	785	25.80	NS	NS	1.58	25.1	<0.025	17	1.7	101	37	112	NS	3	0.8175	8.9E-06
G-8-2	8	U	05/24/17	383	NS	NS	NS	0.164	4.1	<0.125	20.5	0.3400	34	1.76	10.4	NS			
G-8-3	12	U	05/24/17	5.5				NOT SAMPLED											
G-8-4	16	U	05/24/17	5.7	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-8-5	20	U	05/24/17	4.5				NOT SAMPLED											
G-8-6	24	U	05/24/17	5.4	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-8-7	28	U	05/24/17	4.3				NOT SAMPLED											
G-8-8	30	S	05/24/17	4.4	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-9-1	3.5	U	05/24/17	4.1	7.81	NS	NS	<0.025	<0.025	<0.025	<0.0153	<0.025	<0.025	<0.025	<0.075	NS	0		
G-9-2	8	U	05/24/17	3.2	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-9-3	12	U	05/24/17	3.1				NOT SAMPLED											
G-9-4	16	U	05/24/17	4.3				NOT SAMPLED											
G-9-5								NO RECOVERY											
G-9-6	24	U	05/24/17	4.7	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-9-7	28	U	05/24/17	3.8				NOT SAMPLED											
G-9-8	30	S	05/24/17	2.6	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-10-1	3.5	U	05/24/17	3.4	8.23	NS	NS	<0.025	<0.025	<0.025	<0.0153	<0.025	0.172	0.117	<0.075	NS	0	0.0008	
G-10-2	8	U	05/24/17	533	NS	NS	NS	<0.125	0.297	<0.125	5.3	<0.125	3.2	2.5	0.877	NS			
G-10-3	12	U	05/24/17	6.5				NOT SAMPLED											
G-10-4	16	U	05/24/17	7.0	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-10-5	20	U	05/24/17	5.4				NOT SAMPLED											
G-10-6	24	U	05/24/17	4.7				NOT SAMPLED											
G-10-7	28	U	05/24/17	5.3				NOT SAMPLED											
G-10-8	30	S	05/24/17	5.3	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-11-1	3.5	U	05/24/17	5.6	2.49	NS	NS	<0.025	<0.025	<0.025	<0.0153	<0.025	<0.025	<0.025	<0.075	NS	0		
G-11-2	8	U	05/24/17	448	NS	NS	NS	0.93	7	<0.125	25.2	0.33	28.2	3.6	15.3	NS			
G-11-3	12	U	05/24/17	31				NOT SAMPLED											
G-11-4	16	U	05/24/17	2.8	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-11-5	20	U	05/24/17	1.8				NOT SAMPLED											
G-11-6	24	U	05/24/17	2.2				NOT SAMPLED											
G-11-7	28	U	05/24/17	1.9				NOT SAMPLED											
G-11-8	30	S	05/24/17	2.1	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-12-1	3.5	U	05/25/17	0.7	7.98	NS	NS	<0.025	<0.025	<0.025	<0.0153	<0.025	<0.025	<0.025	<0.075	NS	0		
G-12-2	8	U	05/25/17	0.9	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-12-3	12	U	05/25/17	0.6				NOT SAMPLED											
G-12-4	16	U	05/25/17	0.8				NOT SAMPLED											
G-12-5	20	U	05/25/17	1.1				NOT SAMPLED											
G-12-6	24	U	05/25/17	1.0				NOT SAMPLED											
G-12-7	28	U	05/25/17	1.0				NOT SAMPLED											
G-12-8	32	S	05/25/17	1.1															

A.2 Soil Analytical Results Table  
Osceola Oil Bulk Plant - Milltown BRRS #02-49-483615

Sample ID	Depth (feet)	Saturation U/S	Date	PID	Lead (ppm)	DRO (ppm)	GRO (ppm)	Benzene (ppm)	Ethyl Benzene (ppm)	MTBE (ppm)	Naphthalene (ppm)	Toluene (ppm)	1,2,4-Trime-thylbenzene (ppm)	1,3,5-Trime-thylbenzene (ppm)	Xylene (Total) (ppm)	Other VOC's (ppb)	DIRECT CONTACT PVOC & PAH COMBINED			
																	Exceedance Count	Hazard Index	Cumulative Cancer Risk	
MW-5-1	3.5	U	02/05/18	0.7														0		
MW-5-2	8	U	02/05/18	0.2																
MW-5-3	12	U	02/05/18	0.2																
MW-5-4	16	U	02/05/18	0.4																
MW-5-5	20	U	02/05/18	0.0																
MW-5-6																				
MW-5-7	28	U	02/05/18	0.2																
MW-5-8	32	S	02/05/18	0.3																
MW-5-9	36	S	02/05/18	0.6																
MW-6-1	3.5	U	02/05/18	0.4																
MW-6-2	8	U	02/05/18	0.1																
MW-6-3	12	U	02/05/18	0.3																
MW-6-4	16	U	02/05/18	0.4																
MW-6-5	20	U	02/05/18	0.4																
MW-6-6	24	U	02/05/18	0.4																
MW-6-7	28	U	02/05/18	0.8																
MW-6-8	32	S	02/05/18	0.8																
MW-6-9	36	S	02/05/18	0.9																
B-4-1	3.5	U	02/06/18	0.6																
MW-4-1																				
MW-4-2	12	U	02/06/18	0.8																
MW-4-3	18	U	02/06/18	0.9																
MW-4-4	20	U	02/06/18	1.3																
MW-4-5	24	U	02/06/18	1.0																
MW-4-6	28	U	02/06/18	0.8																
MW-4-7	32	S	02/06/18	1.1																
MW-4-8	36	S	02/06/18	0.9																
MW-2-1	3.5	U	02/07/18	0.2																
MW-2-2	8	U	02/07/18	0.0																
MW-2-3	12	U	02/07/18	0.1																
MW-2-4	16	U	02/07/18	1.0																
MW-2-5	20	U	02/07/18	0.7																
MW-2-6	24	U	02/07/18	0.5																
MW-2-7	28	U	02/07/18	0.8																
MW-2-8	32	S	02/07/18	0.2																
MW-2-9	36	S	02/07/18	0.8																
MW-3-1	3.5	U	02/07/18	0.6	8.84	NS	NS	<0.025	<0.025	<0.025	<0.0153	<0.025	<0.025	<0.025	<0.075	NS		0	0.00E+00	
MW-3-2	8	U	02/07/18	0.1	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS				
MW-3-3	12	U	02/07/18	0.0	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS				
MW-3-4	16	U	02/07/18	0.1																
MW-3-5	20	U	02/07/18	0.4																
MW-3-6	24	U	02/07/18	0.4																
MW-3-7	28	U	02/07/18	1.0																
MW-3-8	32	S	02/07/18	1.3																
MW-3-9	36	S	02/07/18	0.5																
MW-1-1	3.5	U	02/08/18	2.3																
MW-1-2	8	U	02/08/18	149.0																
MW-1-3	12	U	02/08/18	0.8																
MW-1-4	16	U	02/08/18	0.4																
MW-1-5	20	U	02/08/18	0.4																
MW-1-6	24	U	02/08/18	0.3																
MW-1-7	28	U	02/08/18	0.2																
MW-1-8	32	S	02/08/18	0.5																
MW-1-9	36	S	02/08/18	1.1																
DRUM COMP	M		02/08/18	NM	NS	70.3	33	NS	NS	NS	NS	NS	NS	NS	NS	NS	TCLP LEAD <0.1			
G-23-1	3.5	U	03/01/18	5.1	8.09	NS	NS	<0.025	<0.025	<0.025	<0.0153	<0.025	<0.025	<0.025	<0.075	NS		0		
G-23-2	8.0	U	03/01/18	5000	NS	NS	NS	<1.475	5.8	<1.475	54	5.4	57	9.9	19.0	NS				
G-23-3	12.0	U	03/01/18	5.1	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS				
G-24-1	3.5	U	03/01/18	405	36.9	NS	NS	(14.1)	(43)	<2.5	(46.0)	14.6	172	59	213	NS		4	1.8678	2.8E-05
G-24-2	8.0	U	03/01/18	469	NS	NS	NS	1.56	12.7	<1.475	42	4.4	59	3.5	31.4	NS				
G-24-3	12.0	U	03/01/18	34	NS	NS	NS	<0.025	<0.025	<0.025	<0.0153	<0.025	<0.025	<0.025	<0.075	NS				
G-25-1	3.5	U	03/01/18	0.8	34.3	NS	NS	<0.025	<0.025	<0.025	<0.0153	<0.025	<0.025	<0.025	<0.075	NS		0	0.0007	1.0E-08
G-25-2	8.0	U	03/01/18	0.6	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS				
G-25-3	12.0	U	03/01/18	0.6	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS				
G-26-1	3.5	U	03/01/18	0.5	119	NS	NS	<0.025	<0.025	<0.025	0.0199	<0.025	<0.025	<0.025	<0.075	NS		0	0.3044	1.4E-06
G-26-2	8.0	U	03/01/18	0.5	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS				
G-26-3	12.0	U	03/01/18	0.5	NS	NS	NS	<0.025	<0.025	<0.025	<0.0153	<0.025	<0.025	<0.025	<0.075	NS		0	0	1.3E-08
G-27-1	3.5	U	03/01/18	0.4	51.3	NS	NS	<0.025	<0.025	<0.025	<0.0153	<0.025	<0.025	<0.025	<0.075	NS		0		
G-27-2	8.0	U	03/01/18	0.4	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS				
G-27-3	12.0	U	03/01/18	0.4	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS				
G-28-1	3.5	U	03/01/18	0.4	50.3	NS	NS	<0.025	<0.025	<0.025	<0.0153	<0.025	<0.025	<0.025	<0.075	NS		0	0.0023	4.5E-07
G-28-2	8.0	U	03/01/18	0.3	NS	NS	NS	<0.025	<0.025	<0.025	<0.0153	0.071	<0.025	<0.025	<0.075	NS				
G-28-3	12.0	U	03/01/18	0.3	NS	NS	NS	<0.025	<0.025	<0.025	<0.0153	<0.025	<0.025	<0.025	<0.075	NS				
EX-1	3.0	U	10/17/18	0.0	NS	NS	NS	<0.025	<0.025	<0.025	<0.0153	<0.025	<0.025	<0.025	<0.075	NS		0	0.0024	4.9E-07
EX-2	3.0	U	10/17/18	0.0	NS	NS	NS	<0.025	<0.025	<0.025	<0.0153	<0.025	<0.025	<0.025	<0.075	NS		0	0	3.5E-08
EX-3	3.0	U	10/18/18	0.0	NS	NS	NS	<0.025	<0.025	<0.025	<0.0153	<0.025	<0.025	<0.025	<0.075	NS		0	0.0027	6.7E-07
EX-4	3.0	U	10/18/18	0.0	NS	NS	NS	<0.025	<0.025	<0.025	<0.0153	<0.025	<0.025	<0.025	<0.075	NS		0		
EX-5	3.0	U	10/18/18	0.0	NS	NS	NS	<0.025	<0.025	<0.025	<0.0153	<0.025	<0.025	<0.025	<0.075	NS		0		
EX-6	3.0	U	10/18/18	10.0	NS	NS	NS	<0.025	<0.025	<0.025	<0.0153	<0.025	<0.025	<0.025	<0.075	NS		0	0	1.4E-08
Groundwater RCL					27	-	-	0.00512	1.57	0.027	0.6582	1.11		1.38	3.96	-				
Non-Industrial Direct Contact RCL					400	-	-	1.6	8.02	63.8	5.52	818	219	182	260	-			1.00E+00	1.00E-05
Industrial Direct Contact RCL					(800)	-	-	(7.07)	(35.4)	(282)	(24.1)	(818)	(219)	(182)	(258)	-			1.00E+00	1.00E-05
Soil Saturation Concentration (C-sat)*					-	-	-	1820*	480*	8870*	-	818*	219*	182*	258*	-				

**Bold & Underline = Non Industrial Direct Contact RCL Exceedance**  
**Bold & Parentheses = Industrial Direct Contact RCL Exceedance**  
**Bold & Asteric \* = C-sat Exceedance**  
*Italics = Industrial Direct Contact RCL*  
 NS = Not Sampled  
 NM = Not Measured  
 (ppm) = parts per million  
 ND = No Detects  
 DRO = Diesel Range Organics  
 GRO = Gasoline Range Organics  
 PID = Photoionization Detector  
 PVOC's = Petroleum Volatile Organic Compounds  
 VOC's = Volatile Organic Compounds  
**Note: Non-Industrial RCLs apply to this site.**

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

A.2 Soil Analytical Results Table  
(PAH)  
Osceola Oil Bulk Plant - Milltown BRRS #02-49-483615

Sample	Depth (feet)	Saturation U/S	Date	Acenaphthene (ppm)	Acenaphthylene (ppm)	Anthracene (ppm)	Benzo(a)anthracene (ppm)	Benzo(a)pyrene (ppm)	Benzo(b)fluoranthene (ppm)	Benzo(g,h,i)perylene (ppm)	Benzo(k)fluoranthene (ppm)	Chrysene (ppm)	Dibenzo(a,h)anthracene (ppm)	Fluoranthene (ppm)	Fluorene (ppm)	Indeno(1,2,3-cd)pyrene (ppm)	1-Methylnaphthalene (ppm)	2-Methylnaphthalene (ppm)	Naphthalene (ppm)	Phenanthrene (ppm)	Pyrene (ppm)	DIRECT CONTACT PVOC & PAH COMBINED		
																						Exceedance Count	Hazard Index	Cumulative Cancer Risk
G-1-1	3.5	U	05/24/17	<0.0151	<0.0159	<0.0109	<0.0116	<0.0113	<0.013	<0.0114	<0.0147	<0.0121	<0.0078	<0.0147	<0.0179	<0.0114	<0.0203	<0.0113	<0.0153	<0.0111	<0.0153	0		
G-1-2	7	U	05/24/17	<0.0151	<0.0159	<0.0109	<0.0116	<0.0113	<0.013	<0.0114	<0.0147	<0.0121	<0.0078	<0.0147	0.256	<0.0114	0.90	0.72	0.165	<0.0111	<0.0153	0		
G-2-1	3.5	U	05/24/17	0.111	0.117	0.048	0.039	0.091	0.154	0.123	0.042	0.052	0.0271	0.0217	0.0211	0.097	0.029	0.072	0.0262	0.048	0.074	0	0.0074	1.2E-06
G-3-1	3.5	U	05/24/17	<0.0151	<0.0159	<0.0109	<0.0116	<0.0113	<0.013	<0.0114	<0.0147	<0.0121	<0.0078	<0.0147	<0.0179	<0.0114	<0.0203	<0.0113	<0.0153	<0.0111	<0.0153	0	0.0004	
G-4-1	3.5	U	05/24/17	<0.0151	<0.0159	<0.0109	0.053	0.057	0.085	0.041	0.0249	0.051	0.0099	0.081	<0.0179	0.035	<0.0203	<0.0113	<0.0153	0.0211	0.078	0	0.1380	7.4E-07
G-6-1	3.5	U	05/24/17	<0.0151	<0.0159	<0.0109	0.0311	0.0256	0.035	0.0209	<0.0147	0.0256	<0.0078	0.042	<0.0179	0.0169	<0.0203	<0.0113	<0.0153	<0.0111	0.05	0	0.0015	3.0E-07
G-7-1	3.5	U	05/24/17	<0.0151	<0.0159	<0.0109	<0.0116	<0.0113	<0.013	<0.0114	<0.0147	<0.0121	<0.0078	<0.0147	<0.0179	<0.0114	<0.0203	<0.0113	<0.0153	<0.0111	<0.0153	0		
G-8-1	3.5	U	05/24/17	0.45	0.51	<0.0109	<0.0116	<0.0113	<0.013	<0.0114	<0.0147	<0.0121	<0.0078	<0.0147	1.46	<0.0114	<b>30.7</b>	42	17	0.69	<0.0153	3	0.8175	8.9E-06
G-9-1	3.5	U	05/24/17	<0.0151	<0.0159	<0.0109	<0.0116	<0.0113	<0.013	<0.0114	<0.0147	<0.0121	<0.0078	<0.0147	<0.0179	<0.0114	<0.0203	<0.0113	<0.0153	<0.0111	<0.0153	0		
G-10-1	3.5	U	05/24/17	<0.0151	<0.0159	<0.0109	<0.0116	<0.0113	<0.013	<0.0114	<0.0147	<0.0121	<0.0078	<0.0147	<0.0179	<0.0114	<0.0203	<0.0113	<0.0153	<0.0111	<0.0153	0	0.0008	
G-11-1	3.5	U	05/24/17	<0.0151	<0.0159	<0.0109	<0.0116	<0.0113	<0.013	<0.0114	<0.0147	<0.0121	<0.0078	<0.0147	<0.0179	<0.0114	<0.0203	<0.0113	<0.0153	<0.0111	<0.0153	0		
G-12-1	3.5	U	05/25/17	<0.0151	<0.0159	<0.0109	<0.0116	<0.0113	<0.013	<0.0114	<0.0147	<0.0121	<0.0078	<0.0147	<0.0179	<0.0114	<0.0203	<0.0113	<0.0153	<0.0111	<0.0153	0		
G-13-1	3.5	U	05/25/17	<0.0151	<0.0159	<0.0109	<0.0116	<0.0113	<0.013	<0.0114	<0.0147	<0.0121	<0.0078	<0.0147	<0.0179	<0.0114	0.229	0.44	0.54	<0.0111	<0.0153	0	0.0168	2.4E-07
G-14-1	3.5	U	05/25/17	0.0272	0.213	0.128	0.189	<b>0.61</b>	<b>0.80</b>	0.78	0.17	<b>0.254</b>	<b>0.159</b>	0.209	0.0308	0.57	0.209	0.36	0.214	0.113	0.59	2	0.0559	8.2E-06
G-22-1	3.5	U	05/25/17	<0.0151	<0.0159	<0.0109	<0.0116	<0.0113	<0.013	<0.0114	<0.0147	<0.0121	<0.0078	<0.0147	<0.0179	<0.0114	<0.0203	<0.0113	<0.0153	<0.0111	<0.0153	0	0.8425	
MW-3-1	3.5	U	02/07/18	<0.0151	<0.0159	<0.0109	<0.013	<0.0113	<0.013	<0.0114	<0.0147	<0.0121	<0.0078	<0.0147	<0.0179	<0.0114	<0.0203	<0.0113	<0.0153	<0.0111	<0.0153	0		
G-23-1	3.5	U	03/01/18	<0.0151	<0.0159	<0.0109	<0.013	<0.0113	<0.013	<0.0114	<0.0147	<0.0121	<0.0078	<0.0147	<0.0179	<0.0114	<0.0203	<0.0113	<0.0153	<0.0111	<0.0153	0		
G-24-1	3.5	U	03/01/18	3.06	1.56	2.62	<0.26	<0.226	<0.26	<0.228	<0.294	<b>0.261</b>	<0.156	0.43	8.40	<0.228	<b>(94.0)</b>	129	<b>(46.0)</b>	14.9	0.89	4	1.8678	2.8E-05
G-25-1	3.5	U	03/01/18	<0.0151	<0.0159	<0.0109	<0.013	<0.0113	<0.013	<0.0114	<0.0147	<0.0121	<0.0078	<0.0147	<0.0179	<0.0114	0.057	0.086	0.04	0.0265	<0.0153	0	0.0007	1.0E-08
G-26-1	3.5	U	03/01/18	0.0216	0.0209	0.058	0.101	0.113	0.154	0.066	0.056	0.144	0.0128	0.34	0.035	0.057	<0.0203	0.0151	0.0199	0.39	0.306	0	0.3044	1.4E-06
G-27-1	3.5	U	03/01/18	<0.0151	<0.0159	<0.0109	<0.013	<0.0113	0.0148	<0.0114	<0.0147	<0.0121	<0.0078	<0.0147	<0.0179	<0.0114	<0.0203	<0.0113	<0.0153	<0.0111	<0.0153	0	0	1.3E-08
G-28-1	3.5	U	03/01/18	<0.0151	<0.0159	<0.0109	0.035	0.04	0.061	0.0242	0.0213	0.041	<0.0078	0.042	<0.0179	0.0207	<0.0203	<0.0113	<0.0153	0.0163	0.048	0	0.0023	4.5E-07
EX-1	3.0	U	10/17/18	<0.0151	<0.0159	<0.0109	0.045	0.042	0.072	0.036	0.0314	0.049	<0.0078	0.06	<0.0179	0.0244	<0.0203	<0.0113	<0.0153	0.0174	0.062	0	0.0024	4.9E-07
EX-2	3.0	U	10/17/18	<0.0151	<0.0159	<0.0109	0.0185	<0.013	0.0217	<0.0114	<0.0147	0.0136	<0.0078	<0.0147	<0.0179	<0.0114	<0.0203	<0.0113	<0.0153	<0.0111	<0.0153	0	0	3.5E-08
EX-3	3.0	U	10/18/18	<0.0151	<0.0159	<0.0109	0.045	0.048	0.075	0.049	0.0288	0.045	0.0131	0.051	<0.0179	0.035	<0.0203	<0.0113	<0.0153	0.0153	0.052	0	0.0027	6.7E-07
EX-4	3.0	U	10/18/18	<0.0151	<0.0159	<0.0109	<0.016	<0.013	<0.013	<0.0114	<0.0147	<0.0121	<0.0078	<0.0147	<0.0179	<0.0114	<0.0203	<0.0113	<0.0153	<0.0111	<0.0153	0		
EX-5	3.0	U	10/18/18	<0.0151	<0.0159	<0.0109	<0.016	<0.013	<0.013	<0.0114	<0.0147	<0.0121	<0.0078	<0.0147	<0.0179	<0.0114	<0.0203	<0.0113	<0.0153	<0.0111	<0.0153	0		
EX-6	3.0	U	10/18/18	<0.0151	<0.0159	<0.0109	0.0165	<0.013	<0.013	<0.0114	<0.0147	<0.0121	<0.0078	<0.0147	<0.0179	<0.0114	<0.0203	<0.0113	<0.0153	<0.0111	<0.0153	0	0	1.4E-08
Groundwater RCL				---	---	197	---	0.47	0.4793	---	---	0.145	---	88.8	14.8	---	---	---	0.6582	---	54.5			
Non-Industrial Direct Contact RCL				3590	---	17900	1.140	0.1150	1.150	---	11.50	115	0.1150	2390	2390	1.150	17.6	239	5.52	---	1790		1.00E+00	1.00E-05
Industrial Direct Contact RCL				(45200)	---	(100000)	(20.8)	(2.11)	(21.1)	---	(211)	(2110)	(2.11)	(30100)	(30100)	(21.1)	(72.7)	(3010)	(24.1)	---	(22600)			
Soil Saturation Concentration (C-sat)*				---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			

**Bold** = Groundwater RCL Exceedance  
**Bold & Underline** = Non Industrial Direct Contact RCL Exceedance  
**Bold & Parentheses** = Industrial Direct Contact RCL Exceedance  
**Bold & Asteric \*** = C-sat Exceedance  
*Italics* = Industrial Direct Contact RCL  
 NS = Not Sampled  
 NM = Not Measured  
 (ppm) = parts per million  
 ND = No Detects  
 PAH = Polynuclear Aromatic Hydrocarbons  
 PID = Photoionization Detector  
 VOC's = Volatile Organic Compounds

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



**A.3. Residual Soil Contamination Table**  
**Osceola Oil Bulk Plant - Milltown BRRTS #02-49-483615**

Sample ID	Depth (feet)	Saturation U/S	Date	PID	Lead (ppm)	DRO (ppm)	GRO (ppm)	Benzene (ppm)	Ethyl Benzene (ppm)	MTBE (ppm)	Naphthalene (ppm)	Toluene (ppm)	1,2,4-Trime-thylbenzene (ppm)	1,3,5-Trime-thylbenzene (ppm)	Xylene (Total) (ppm)	Other VOC's (ppb)	DIRECT CONTACT PVOC & PAH COMBINED		
																	Exeedance Count	Hazard Index	Cumulative Cancer Risk
G-1-8	30	U	05/24/17	205	NS	NS	NS	<0.025	0.061	<0.025	<b>4.1</b>	<0.025	<b>1.25</b>	<b>0.281</b>	0.251	NS			
G-4-1	3.5	U	05/24/17	4.0	<b>53.90</b>	NS	NS	<0.025	<0.025	<0.025	<0.0153	<0.025	<0.025	<0.025	<0.075	NS	0	0.1380	7.4E-07
G-10-2	8	U	05/24/17	533	NS	NS	NS	<0.125	0.297	<0.125	<b>5.3</b>	<0.125	<b>3.2</b>	<b>2.5</b>	0.877	NS			
G-11-2	8	U	05/24/17	448	NS	NS	NS	<b>0.93</b>	<b>7</b>	<0.125	<b>25.2</b>	0.33	<b>28.2</b>	<b>3.6</b>	<b>15.3</b>	NS			
G-13-1	3.5	U	05/25/17	938	9.85	NS	NS	<b>0.033</b>	0.91	<0.025	0.54	0.189	<b>1.8</b>	<b>0.55</b>	3.93	NS	0	0.0168	2.4E-07
G-17-2	8	U	05/25/17	384	NS	NS	NS	<0.025	0.188	<0.025	<b>1.62</b>	<0.025	<b>1.92</b>	<b>0.308</b>	0.311	NS			
G-22-1	3.5	U	05/25/17	1.2	<b>337</b>	NS	NS	<0.025	<0.025	<0.025	<0.0153	<0.025	<0.025	<0.025	<0.075	NS	0	0.8425	
G-25-1	3.5	U	03/01/18	0.8	<b>34.3</b>	NS	NS	<0.025	<0.025	<0.025	<0.0153	<0.025	<0.025	0.050	<0.075	NS	0	0.0007	1.0E-08
G-26-1	3.5	U	03/01/18	0.5	<b>119</b>	NS	NS	<0.025	<0.025	<0.025	0.0199	<0.025	<0.025	<0.025	<0.075	NS	0	0.3044	1.4E-06
G-27-1	3.5	U	03/01/18	0.4	<b>51.3</b>	NS	NS	<0.025	<0.025	<0.025	<0.0153	<0.025	<0.025	<0.025	<0.075	NS	0	0	1.3E-08
G-28-1	3.5	U	03/01/18	0.4	<b>50.3</b>	NS	NS	<0.025	<0.025	<0.025	<0.0153	<0.025	<0.025	<0.025	<0.075	NS	0	0.0023	4.5E-07
<b>Groundwater RCL</b>					<b>27</b>	-	-	<b>0.00512</b>	<b>1.57</b>	<b>0.027</b>	<b>0.6582</b>	<b>1.11</b>	<b>1.38</b>		<b>3.96</b>	-			
<b>Non-Industrial Direct Contact RCL</b>					<b>400</b>	-	-	<b>1.6</b>	<b>8.02</b>	<b>63.8</b>	<b>5.52</b>	<b>818</b>	<b>219</b>	<b>182</b>	<b>260</b>	-		1.00E+00	1.00E-05
<b>Industrial Direct Contact RCL</b>					<b>(800)</b>	-	-	<b>(7.07)</b>	<b>(35.4)</b>	<b>(282)</b>	<b>(24.1)</b>	<b>(818)</b>	<b>(219)</b>	<b>(182)</b>	<b>(258)</b>	-		1.00E+00	1.00E-05
<b>Soil Saturation Concentration (C-sat)*</b>					-	-	-	<b>1820*</b>	<b>480*</b>	<b>8870*</b>	-	<b>818*</b>	<b>219*</b>	<b>182*</b>	<b>258*</b>	-			

**Bold = Groundwater RCL Exceedance**

**Bold & Underline = Non Industrial Direct Contact RCL Exceedance**

**(Bold & Parentheses) = Industrial Direct Contact RCL Exceedance**

**Bold & Asteric \* = C-sat Exceedance**

*Italics = Industrial Direct Contact RCL*

NS = Not Sampled

NM = Not Measured

(ppm) = parts per million

ND = No Detects

DRO = Diesel Range Organics

GRO = Gasoline Range Organics

PID = Photoionization Detector

PVOC's = Petroleum Volatile Organic Compounds

VOC's = Volatile Organic Compounds

**Note: Non-Industrial RCLs apply to this site.**

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

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

**A.6 Water Level Elevations**  
**Osceola Oil Bulk Plant - Milltown BRRTS #02-49-483615**  
**Milltown, Wisconsin**

	<b>MW-1</b>	<b>MW-2</b>	<b>MW-3</b>	<b>MW-4</b>	<b>MW-5</b>	<b>MW-6</b>
<b>Ground Surface (feet msl)</b>	1234.99	1235.10	1234.65	1233.52	1235.19	1235.46
<b>PVC top (feet msl)</b>	1234.39	1234.55	1234.03	1232.90	1234.68	1234.95
<b>Well Depth (feet)</b>	36.00	36.00	36.00	36.00	36.00	35.00
<b>Top of screen (feet msl)</b>	1208.99	1209.10	1208.65	1207.52	1209.19	1210.46
<b>Bottom of screen (feet msl)</b>	1198.99	1199.10	1198.65	1197.52	1199.19	1200.46
<b>Depth to Water From Top of PVC (feet)</b>						
<b>03/29/18</b>	30.56	30.62	30.26	28.99	30.77	31.20
<b>06/14/18</b>	30.30	30.35	30.01	28.72	30.54	30.91
<b>Depth to Water From Ground Surface (feet)</b>						
<b>03/29/18</b>	31.16	31.17	30.88	29.61	31.28	31.71
<b>06/14/18</b>	30.90	30.90	30.63	29.34	31.05	31.42
<b>Groundwater Elevation (feet msl)</b>						
<b>03/29/18</b>	1203.83	1203.93	1203.77	1203.91	1203.91	1203.75
<b>06/14/18</b>	1204.09	1204.20	1204.02	1204.18	1204.14	1204.04

**A.7 Other**  
**Groundwater NA Indicator Results**  
**Osceola Oil Bulk Plant - Milltown BRRTS #02-49-483615**

**Well MW-1**

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp ( C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Manganese (ppb)
03/29/18	3.58	6.61	288	9.5	231.5	0.89	15.0	0.04	20.1
06/14/18	4.12	6.61	303	9.1	3194	NS	NS	NS	NS
<b>ENFORCEMENT STANDARD = ES – Bold</b>						<b>10</b>	-	-	<b>300</b>
<b>PREVENTIVE ACTION LIMIT = PAL - Italics</b>						<b>2</b>	-	-	<b>60</b>

(ppb) = parts per billion (ppm) = parts per million  
 NS = not sampled NM = not measured ORP = Oxidation Reduction Potential  
 Note: Elevations are presented in feet mean sea level (msl).

**Well MW-2**

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp ( C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Manganese (ppb)
03/29/18	3.11	7.00	264	9.3	648	0.65	87.0	0.13	29.8
06/14/18	3.81	7.14	283	9.5	718	NS	NS	NS	NS
<b>ENFORCEMENT STANDARD = ES – Bold</b>						<b>10</b>	-	-	<b>300</b>
<b>PREVENTIVE ACTION LIMIT = PAL - Italics</b>						<b>2</b>	-	-	<b>60</b>

(ppb) = parts per billion (ppm) = parts per million  
 NS = not sampled NM = not measured ORP = Oxidation Reduction Potential  
 Note: Elevations are presented in feet mean sea level (msl).

**Well MW-3**

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp ( C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Manganese (ppb)
03/29/18	4.72	7.12	269	9.1	528	0.42	61.7	0.09	24.2
06/14/18	5.55	6.92	269	9.7	368.1	NS	NS	NS	NS
<b>ENFORCEMENT STANDARD = ES – Bold</b>						<b>10</b>	-	-	<b>300</b>
<b>PREVENTIVE ACTION LIMIT = PAL - Italics</b>						<b>2</b>	-	-	<b>60</b>

(ppb) = parts per billion (ppm) = parts per million  
 NS = not sampled NM = not measured ORP = Oxidation Reduction Potential  
 Note: Elevations are presented in feet mean sea level (msl).

**A.7 Other**  
**Groundwater NA Indicator Results**  
**Osceola Oil Bulk Plant - Milltown BRRTS #02-49-483615**

**Well MW-4**

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp ( C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Manganese (ppb)
03/29/18	4.84	6.75	229	8.4	597	<0.36	35.2	0.03	65.0
06/14/18	1.93	7.06	321	8.8	652	NS	NS	NS	NS
<b>ENFORCEMENT STANDARD = ES – Bold</b>						<b>10</b>	-	-	<b>300</b>
<b>PREVENTIVE ACTION LIMIT = PAL - Italics</b>						<b>2</b>	-	-	<b>60</b>

(ppb) = parts per billion (ppm) = parts per million  
 NS = not sampled NM = not measured ORP = Oxidation Reduction Potential  
 Note: Elevations are presented in feet mean sea level (msl).

**Well MW-5**

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp ( C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Manganese (ppb)
03/29/18	7.04	6.69	244	8.4	179.5	0.65	6.40	0.03	20.1
06/14/18	12.03	6.33	327	9.0	890	NS	NS	NS	NS
<b>ENFORCEMENT STANDARD = ES – Bold</b>						<b>10</b>	-	-	<b>300</b>
<b>PREVENTIVE ACTION LIMIT = PAL - Italics</b>						<b>2</b>	-	-	<b>60</b>

(ppb) = parts per billion (ppm) = parts per million  
 NS = not sampled NM = not measured ORP = Oxidation Reduction Potential  
 Note: Elevations are presented in feet mean sea level (msl).

**Well MW-6**

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp ( C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Manganese (ppb)
03/29/18	7.17	6.03	194	8.1	258.2	0.81	8.79	0.05	13.8
06/14/18	3.25	6.55	317	8.9	295.6	NS	NS	NS	NS
<b>ENFORCEMENT STANDARD = ES – Bold</b>						<b>10</b>	-	-	<b>300</b>
<b>PREVENTIVE ACTION LIMIT = PAL - Italics</b>						<b>2</b>	-	-	<b>60</b>

(ppb) = parts per billion (ppm) = parts per million  
 NS = not sampled NM = not measured ORP = Oxidation Reduction Potential  
 Note: Elevations are presented in feet mean sea level (msl).

**A.7 Other**

**Osceola Oil Bulk Plant - Milltown LUST Site BRRTS# 02-49-483615**

**Hydraulic Conductivity Calculations**

**Hydraulic Conductivity High (medium to coarse grained sand)**

	cm/s	m/yr
<b>K</b>	1.00E-01	3.15E+04

**Hydraulic Conductivity Low (medium to coarse grained sand)**

	cm/s	m/yr
<b>K</b>	1.00E-03	3.15E+02

Date	Elv. (High)	Elv. (Low)	Distance (ft)	Hyd Grad (l)
03/29/18	1203.90	1203.80	37	0.0027027
06/14/18	1204.15	1204.05	66	0.0015152
				<b>Average</b>
				0.0021

	K (m/yr)	I	n	Flow Velocity (m/yr)
Hydraulic Conductivity High	3.15E+04	0.0021000	0.4	165.56400
Hydraulic Conductivity Low	3.15E+002	0.0021000	0.4	1.65564

## **Attachment B/Maps and Figures**

### **B.1 Location Maps**

**B.1.a Location Map**

**B.1.b Detailed Site Map**

**B.1.c RR Site Map**

### **B.2 Soil Figures**

**B.2.a Soil Contamination**

**B.2.b Residual Soil Contamination**

### **B.3 Groundwater Figures**

**B.3.a.1 Geologic Cross-Section Figure**

**B.3.a.2 Geologic Cross-Section Figure**

**B.3.a.3 Geologic Cross-Section Figure**

**B.3.b Groundwater Isoconcentration**

**B.3.c Groundwater Flow Direction**

**B.3.d Monitoring Wells**

### **B.4 Vapor Maps and Other Media**

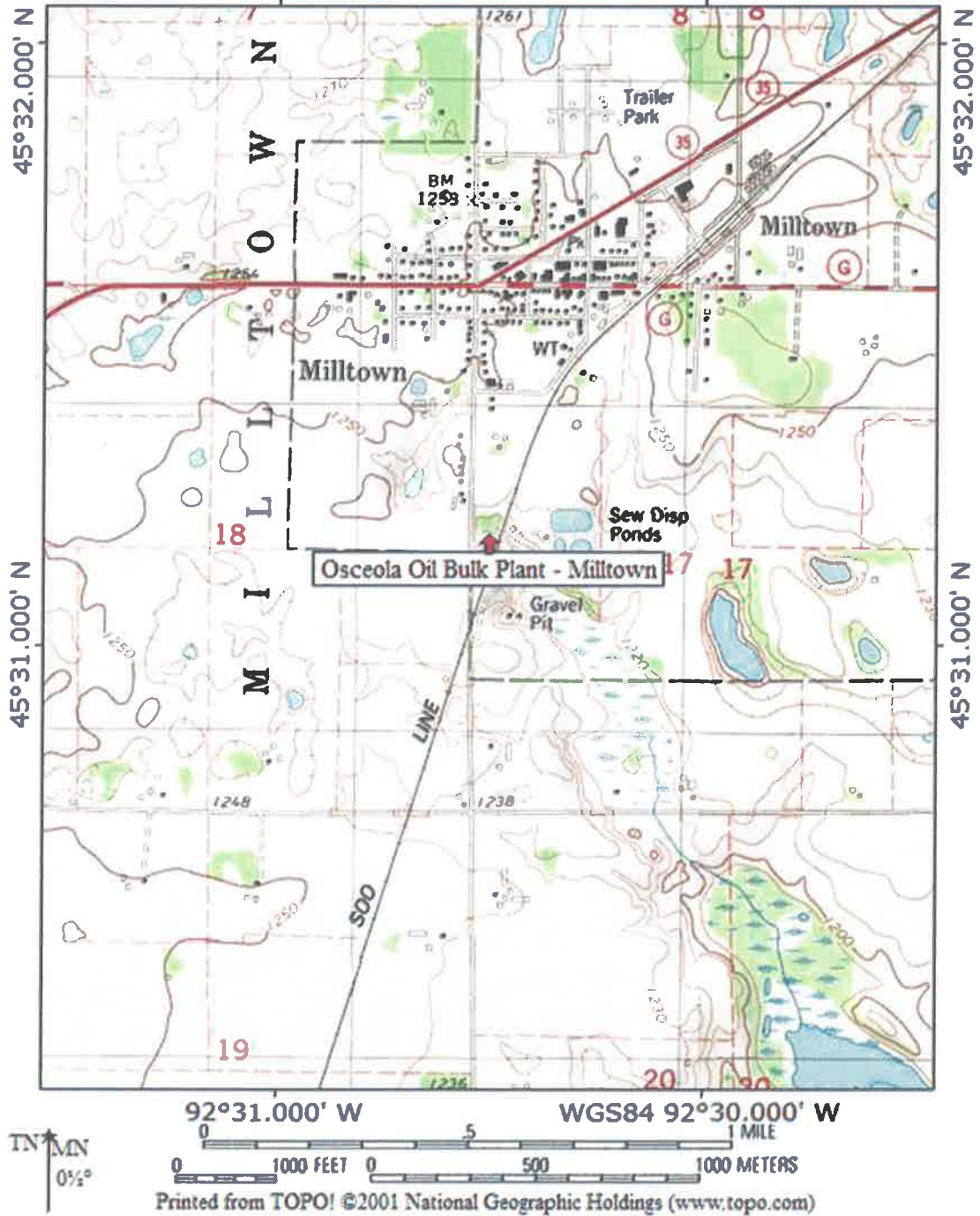
**B.4.a Vapor Intrusion Map**

**B.4.b Other media of concern - No surface waters or sediments were assessed as part of the site investigation.**

**B.4.c Other – Not applicable.**

**B.5 Structural Impediment Photos – There were no structural impediments to the completion of the investigation.**

TOPO! map printed on 03/30/17 from "Wisconsin.tpo" and "Untitled.tpg"  
92°31.000' W WGS84 92°30.000' W



B.1.a LOCATION MAP  
CONTOUR INTERVAL 10 FEET  
OSCEOLA OIL BULK PLANT – MILLTOWN, WI  
SEAMLESS USGS TOPOGRAPHIC MAPS ON CD-ROM

B.1b DETAILED SITE MAP OSCEOLA OIL BULK PLANT - MILLTOWN	
 700 Grand Street, Suite 3 La Crosse, WI 54601 Tel: (608) 781-8878 Fax: (608) 781-8893	MILLTOWN, WISCONSIN DRAWN BY: ED DATE: 05/30/2007

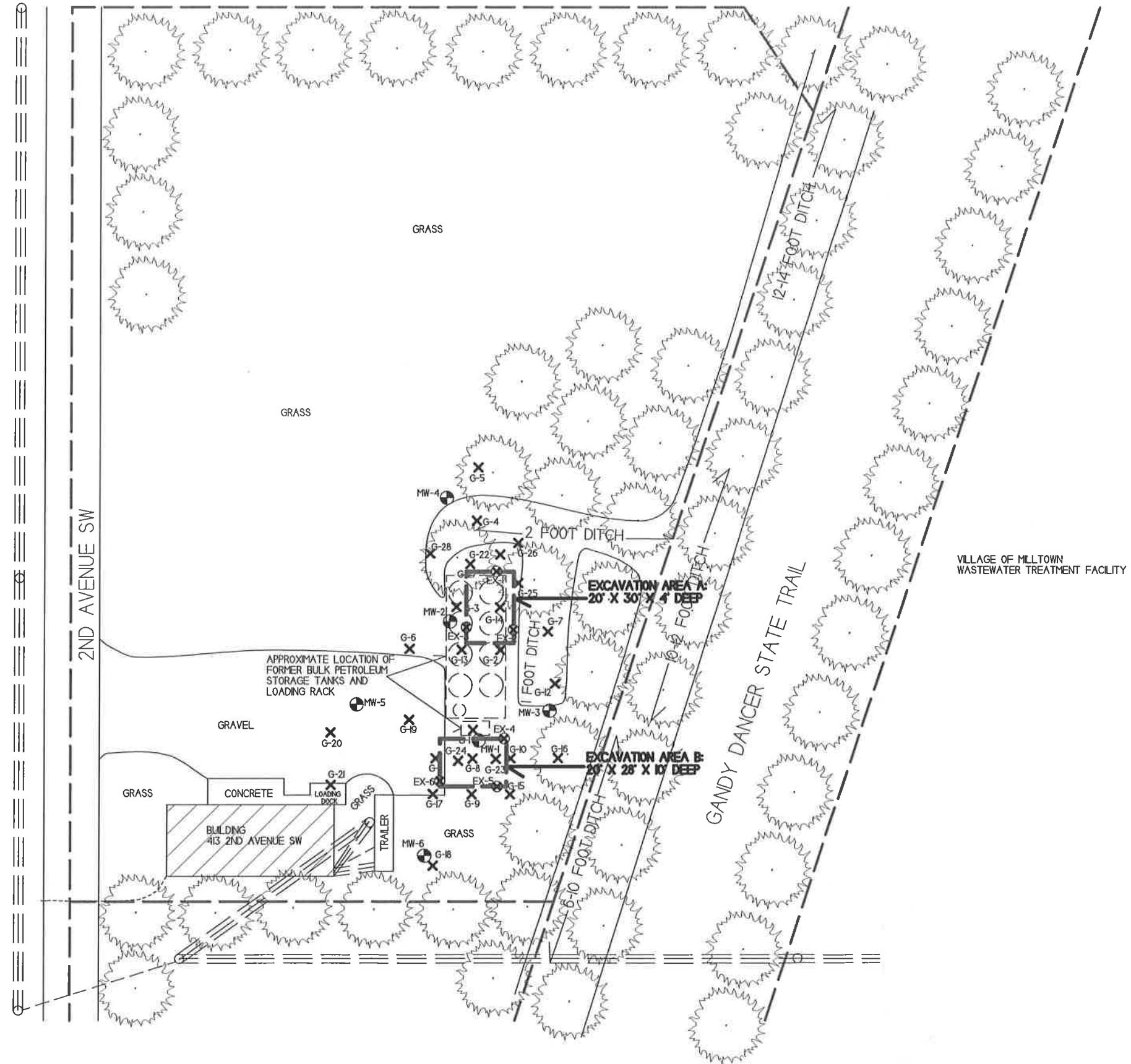


NOTE: INFORMATION BASED ON AVAILABLE DATA. ACTUAL CONDITIONS MAY DIFFER

- ✕ - SOIL BORING LOCATION
- ⊕ - MONITORING WELL LOCATION



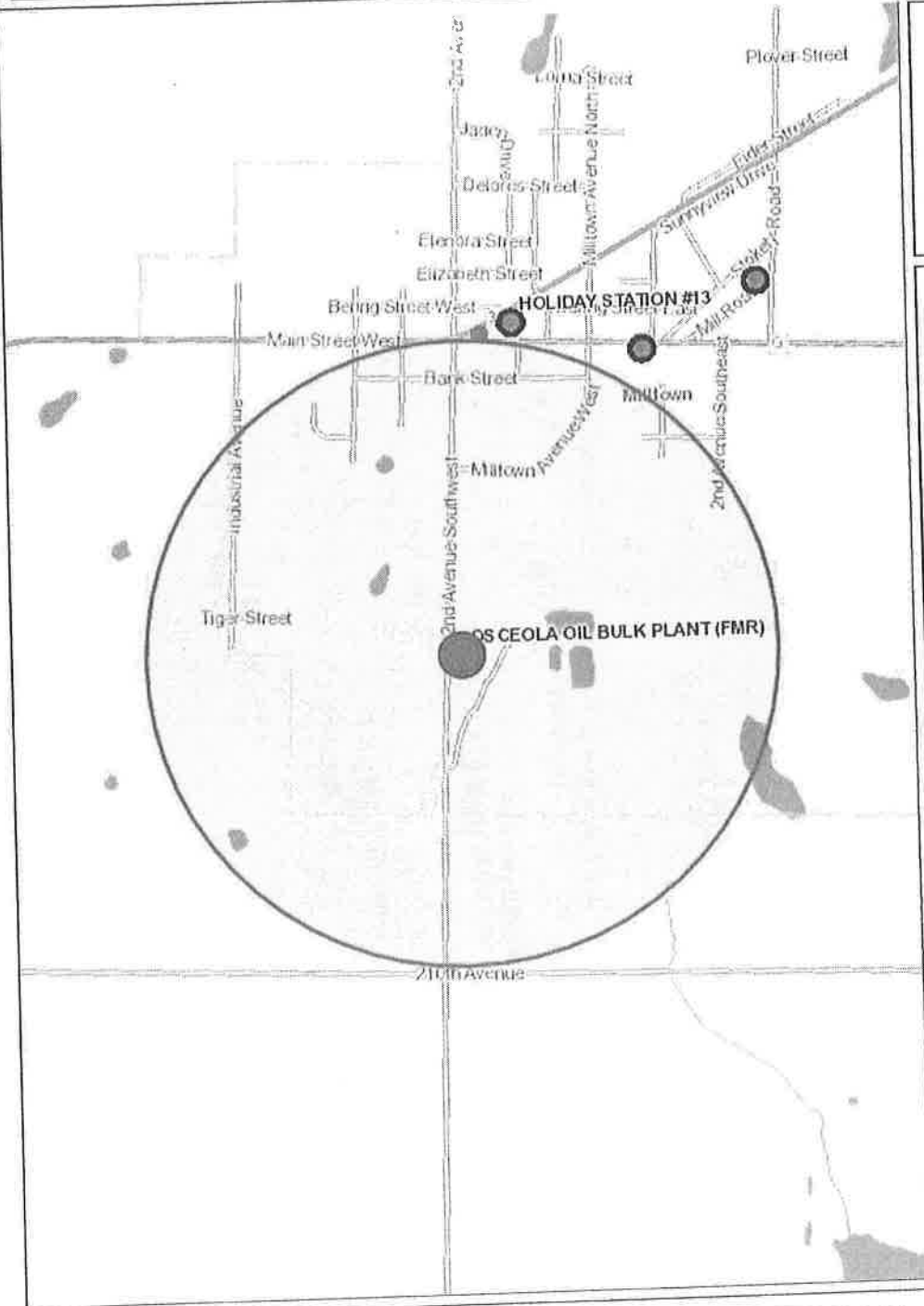
- - - - - BURIED ELECTRIC LINE
- · - · - TELEPHONE/FIBER OPTIC LINE
- ==== OVERHEAD LINES
- - - - - PROPERTY BOUNDARY







# B.1.c. RR Site Map



### Legend

- Open Site
- Closed Site
- Continuing Obligations Apply
- Facility-wide Site

0.5                      0                      Distance / 2                      0.5      Miles

1:15,840



NAD\_1983\_HARN\_Wisconsin\_TM

**DISCLAIMER:** The information shown on these maps has been obtained from various sources, and are of varying age, reliability and resolution. These maps are not intended to be used for navigation, nor are these maps an authoritative source of information about legal land ownership or public access. No warranty, expressed or implied, is made regarding accuracy, applicability for a particular use, completeness, or legality of the information depicted on this map. For more information, see the DNR Legal Notices web page: <http://dnr.wi.gov/orp/legal>

*Note: Not all sites are mapped.*

### Notes

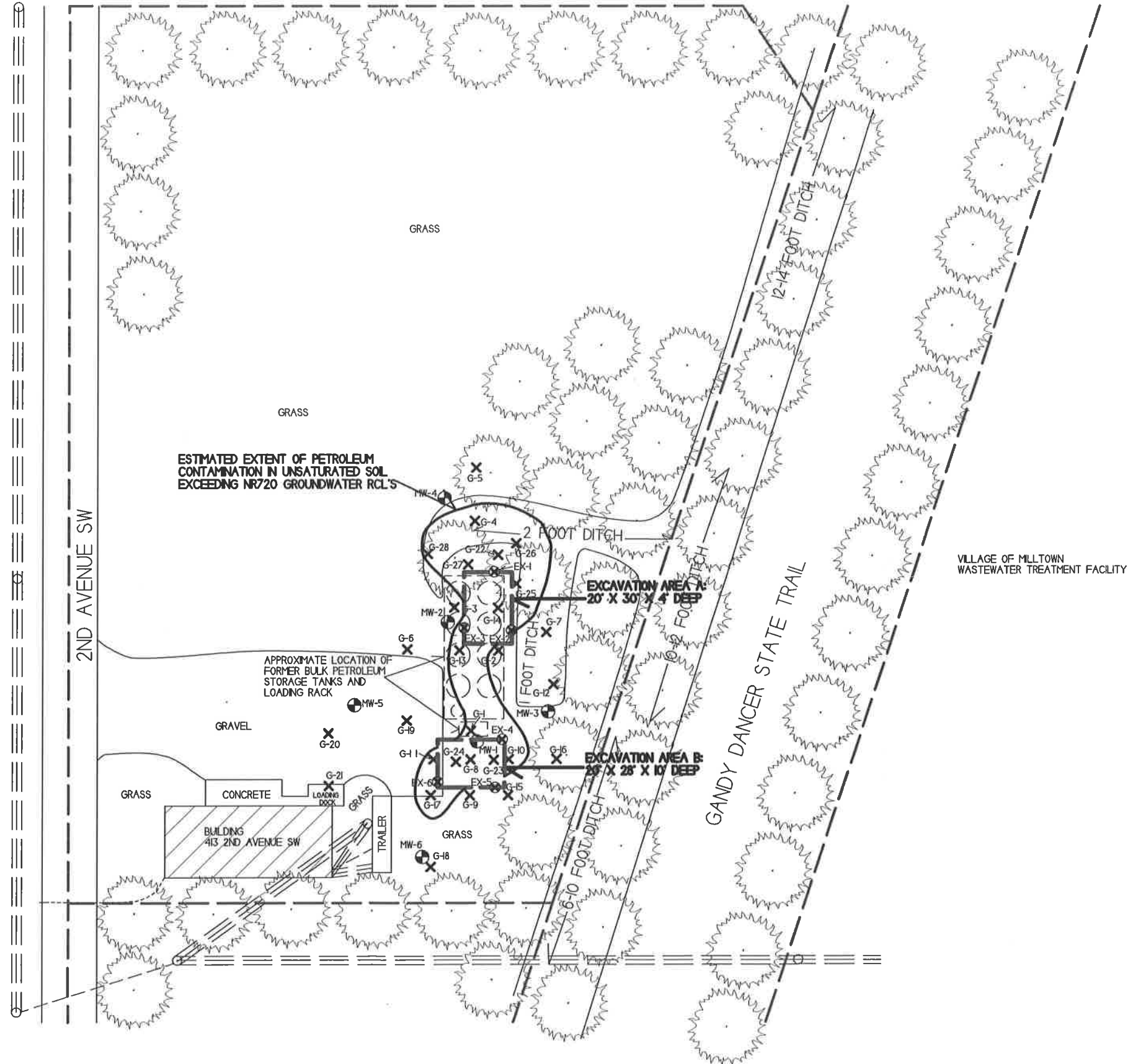
B.2.c.		
<b>SOIL CONTAMINATION</b> <b>OSCEOLA OIL BULK</b> <b>PLANT - MILLTOWN</b>		
	<small>1000 Glinco Street, Suite 3          La Crosse, WI 54601          Tel: (608) 785-8879          Fax: (608) 785-8893</small>	<b>MILLTOWN,</b> <b>WISCONSIN</b> DRAWN BY: ED DATE: 03/30/2007

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

- ✕ - SOIL BORING LOCATION
- ⊕ - MONITORING WELL LOCATION



- - - - - BURIED ELECTRIC LINE
- - - - - TELEPHONE/FIBER OPTIC LINE
- ==== OVERHEAD LINES
- PROPERTY BOUNDARY



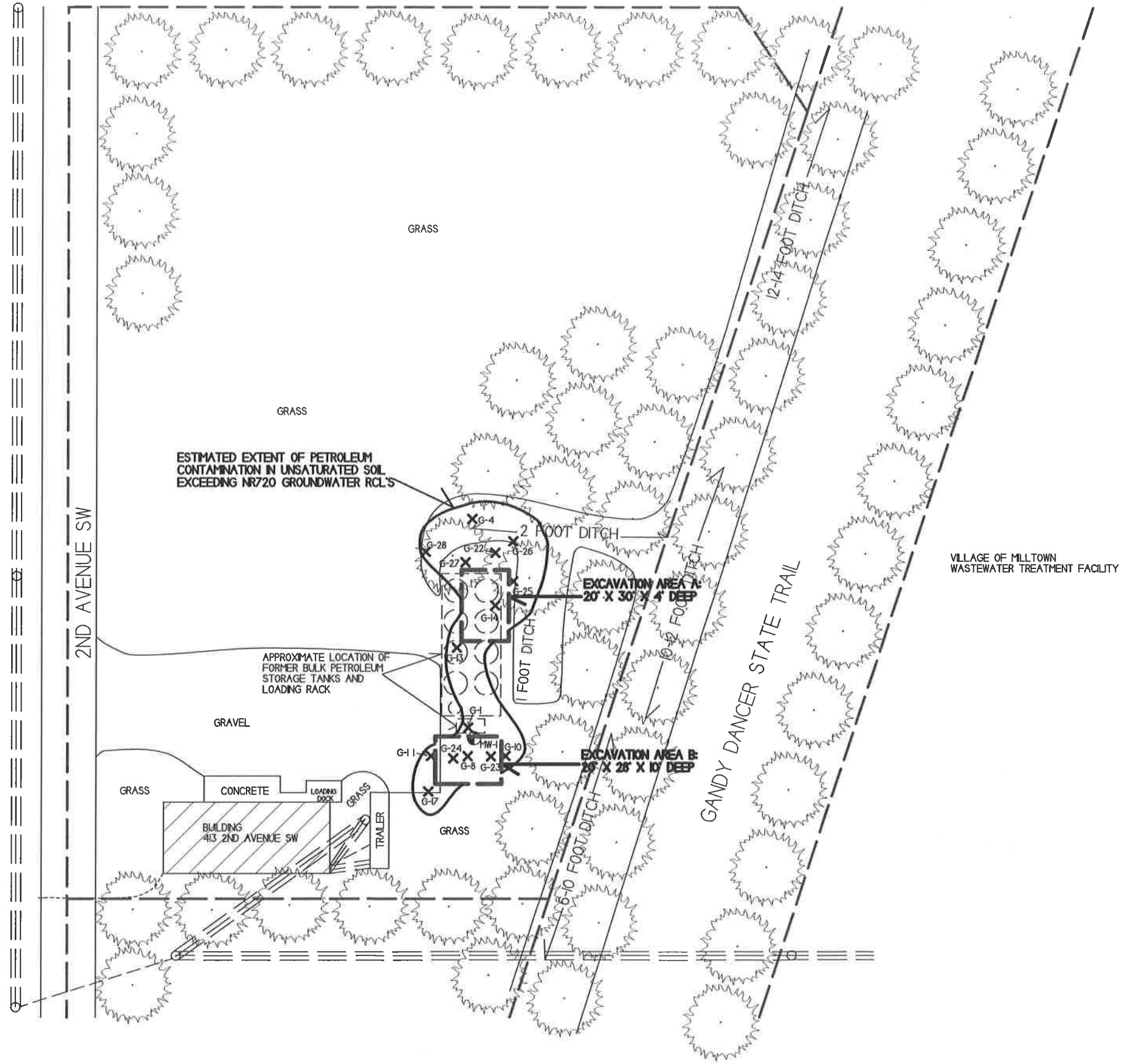
<b>B.2.b. RESIDUAL SOIL CONTAMINATION OSCEOLA OIL BULK PLANT - MILLTOWN</b>		
 METCO <small>1070 Columbia Street, Suite 3 La Crosse, WI 54601 Tel: (608) 783-8275 Fax: (608) 783-8893</small>	<b>MILLTOWN, WISCONSIN</b> <small>DRAWN BY: ED DATE: 03/30/2007 UPDATED BY: HP DATE: 06/06/2009</small>	


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

- ✕ - SOIL BORING LOCATION
- ⊕ - MONITORING WELL LOCATION



- - - - - BURIED ELECTRIC LINE
- · - · - TELEPHONE/FIBER OPTIC LINE
- ==== OVERHEAD LINES
- — — — — PROPERTY BOUNDARY



B.3.a.I. GEOLOGIC CROSS SECTION FIGURE	
OSCEOLA OIL BULK PLANT - MILLTOWN	
 <small>100 Gillette Street, Suite 3 La Crosse, WI 54601 Tel: (608) 781-8872 Fax: (608) 781-8892</small>	MILLTOWN, WISCONSIN <small>DRAWN BY: ED DATE: 03/30/2007 UPDATED BY: HW DATE: 08/08/2008</small>

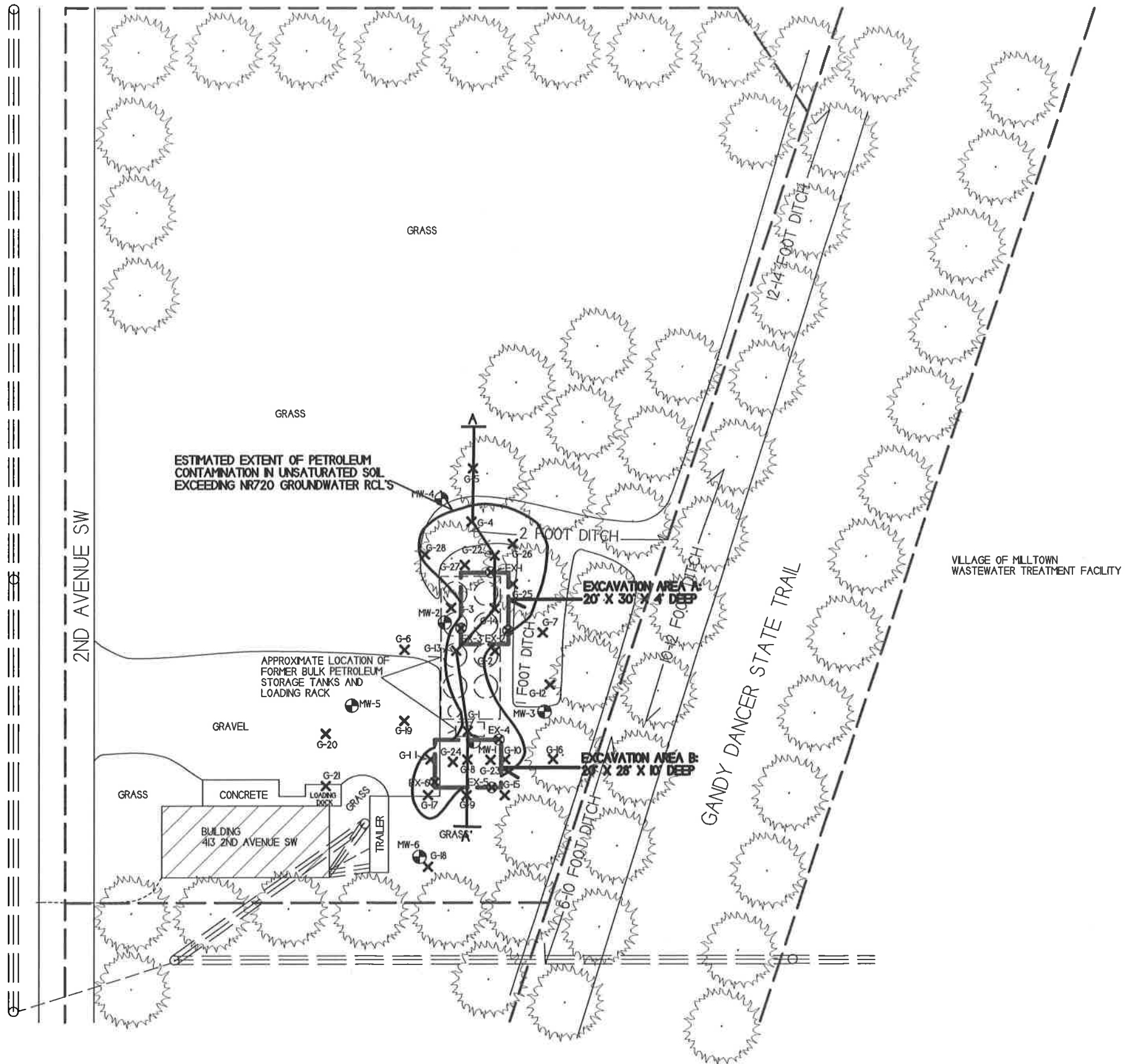


NOTE: INFORMATION BASED ON AVAILABLE DATA. ACTUAL CONDITIONS MAY DIFFER

- ✕ - SOIL BORING LOCATION
- ⊕ - MONITORING WELL LOCATION



- - - - - BURED ELECTRIC LINE
- · - · - · TELEPHONE/FIBER OPTIC LINE
- ==== OVERHEAD LINES
- - - - - PROPERTY BOUNDARY



B.3.d.2. GEOLOGIC CROSS SECTION FIGURE (CLOSE UP)  
 OSCEOLA OIL BULK PLANT - MILLTOWN

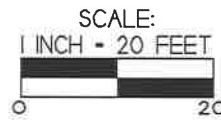
**METCO**  
 709 Gillette Street, Suite 3  
 La Crosse, WI 54603  
 Tel: (608) 781-8879  
 Fax: (608) 781-8893  
 Excellence through experience™

MILLTOWN,  
 WISCONSIN  
 DRAWN BY: ED  
 DATE: 03/30/2017



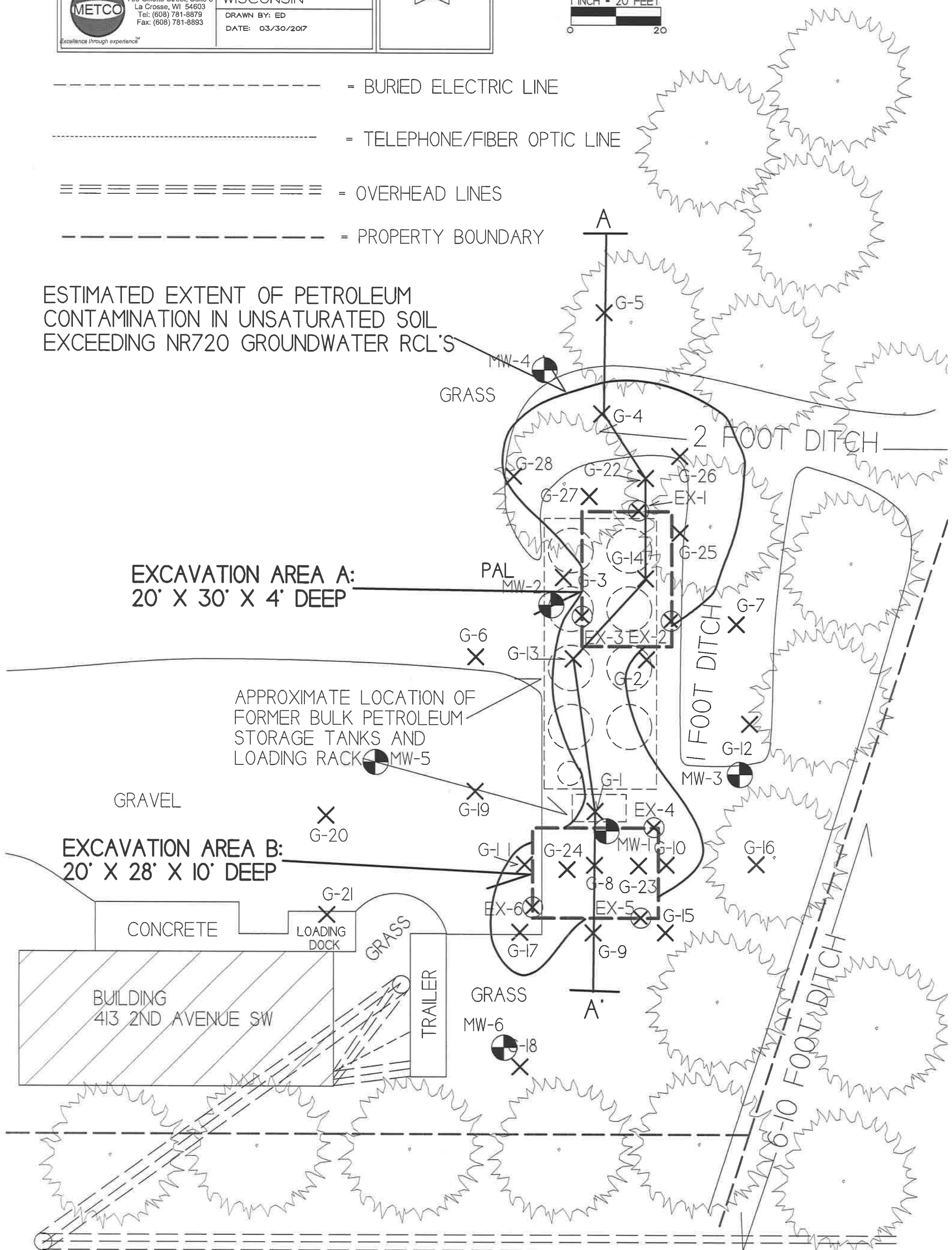
NOTE: INFORMATION BASED ON AVAILABLE DATA. ACTUAL CONDITIONS MAY DIFFER

✕ = SOIL BORING LOCATION



- = BURIED ELECTRIC LINE
- = TELEPHONE/FIBER OPTIC LINE
- ≡≡≡≡≡≡≡≡≡≡≡ = OVERHEAD LINES
- = PROPERTY BOUNDARY

ESTIMATED EXTENT OF PETROLEUM CONTAMINATION IN UNSATURATED SOIL EXCEEDING NR720 GROUNDWATER RCL'S



**B.3.d.3 GEOLOGIC CROSS SECTION FIGURE**  
**OSCEOLA BULK PLANT - MILLTOWN**  
**MILLTOWN, WISCONSIN**

**METCO**  
 709 Gillette Street, Suite 3  
 La Crosse, WI 54603  
 Tel: (608) 781-8879  
 Fax: (608) 781-8883

DRAWN BY: JJ  
 DATE: 7/25/07

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

NOTE: SOIL AND GROUNDWATER SAMPLE DATA IS BASED ON LABORATORY RESULTS FROM SAMPLES COLLECTED DURING THE GEOPROBE PROJECT (5/24-25/2017), EXCAVATION PROJECT (10/17-18/2018, AND ROUND 2 OF GROUNDWATER MONITORING (06/14/2018)

- - GEOPROBE BORING LOCATION
- ✕ - SOIL SAMPLING LOCATION
- ⊗ - EXCAVATION SOIL SAMPLING LOCATION
- ▼ - WATERTABLE

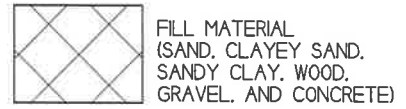
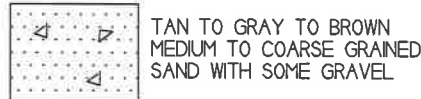
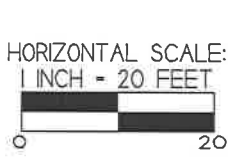
INFORMATION BASED ON AVAILABLE DATA. ACTUAL CONDITIONS MAY DIFFER

SOIL SAMPLE RESULTS ARE PRESENTED IN PARTS PER MILLION (PPM).

GROUNDWATER SAMPLE RESULTS ARE PRESENTED IN PARTS PER BILLION (PPB).

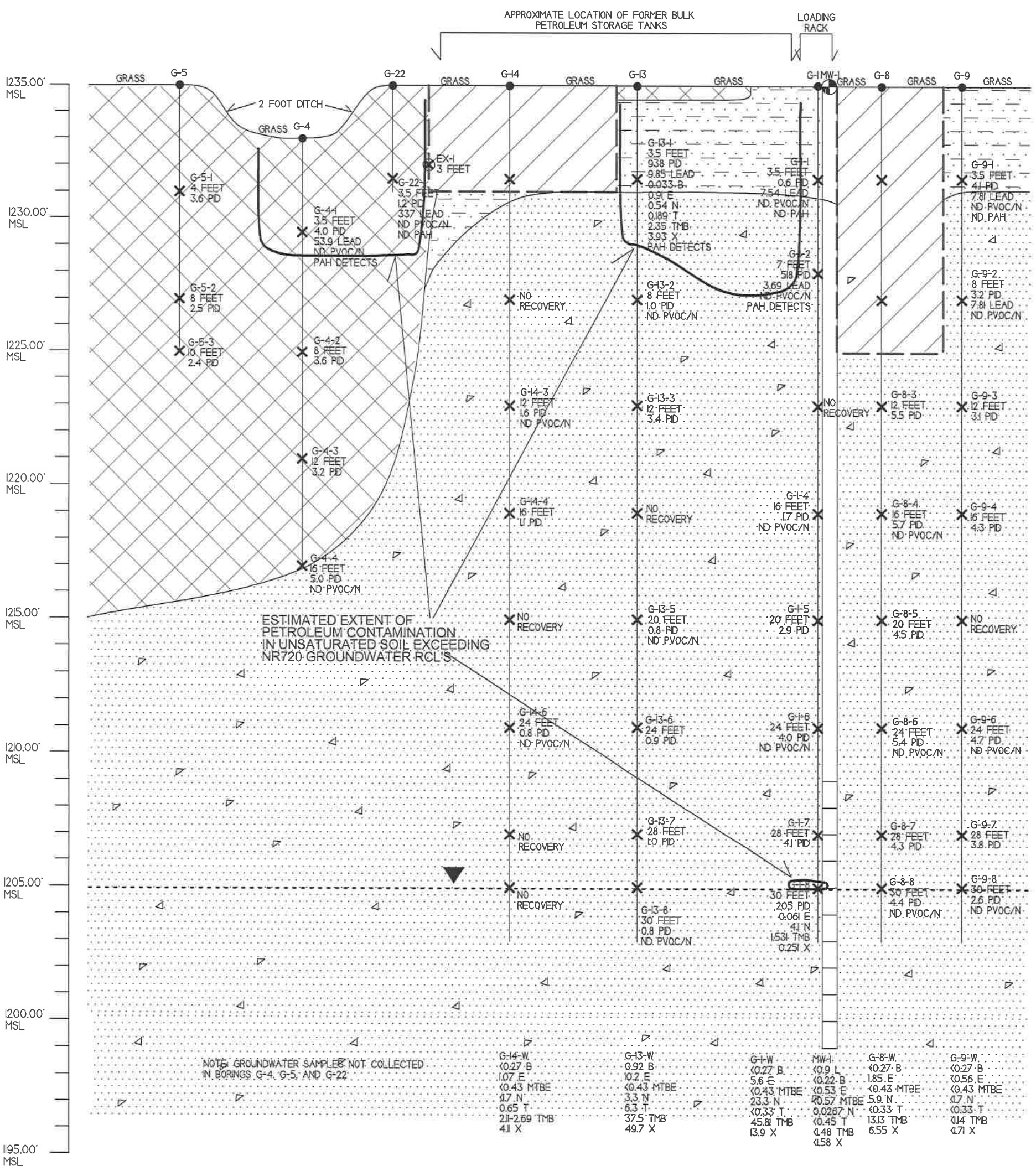
GROUNDWATER FLOW IS EXPECTED TO BE TOWARD THE EAST TO SOUTHEAST.



- ND - NO DETECT
- PD - PHOTO IONIZATION DETECTOR
- DRO - DIESEL RANGE ORGANICS
- PVOC - PETROLEUM VOLATILE ORGANIC COMPOUNDS
- B - BENZENE
- BP - BENZO(A)PYRENE
- BF - BENZO(B)FLUORANTHENE
- C - CHRYSENE
- DA - DIBENZO(A,H)ANTHRACENE
- E - ETHYLBENZENE
- L - LEAD
- MTBE - METHYL-TERT-BUTYL-ETHER
- MN - METHYL-NAPHTHALENE
- N - NAPHTHALENE
- T - TOLUENE
- TMB - TRIMETHYLBENZENE
- X - XYLENE



**A**  
NORTH

**A**  
SOUTH



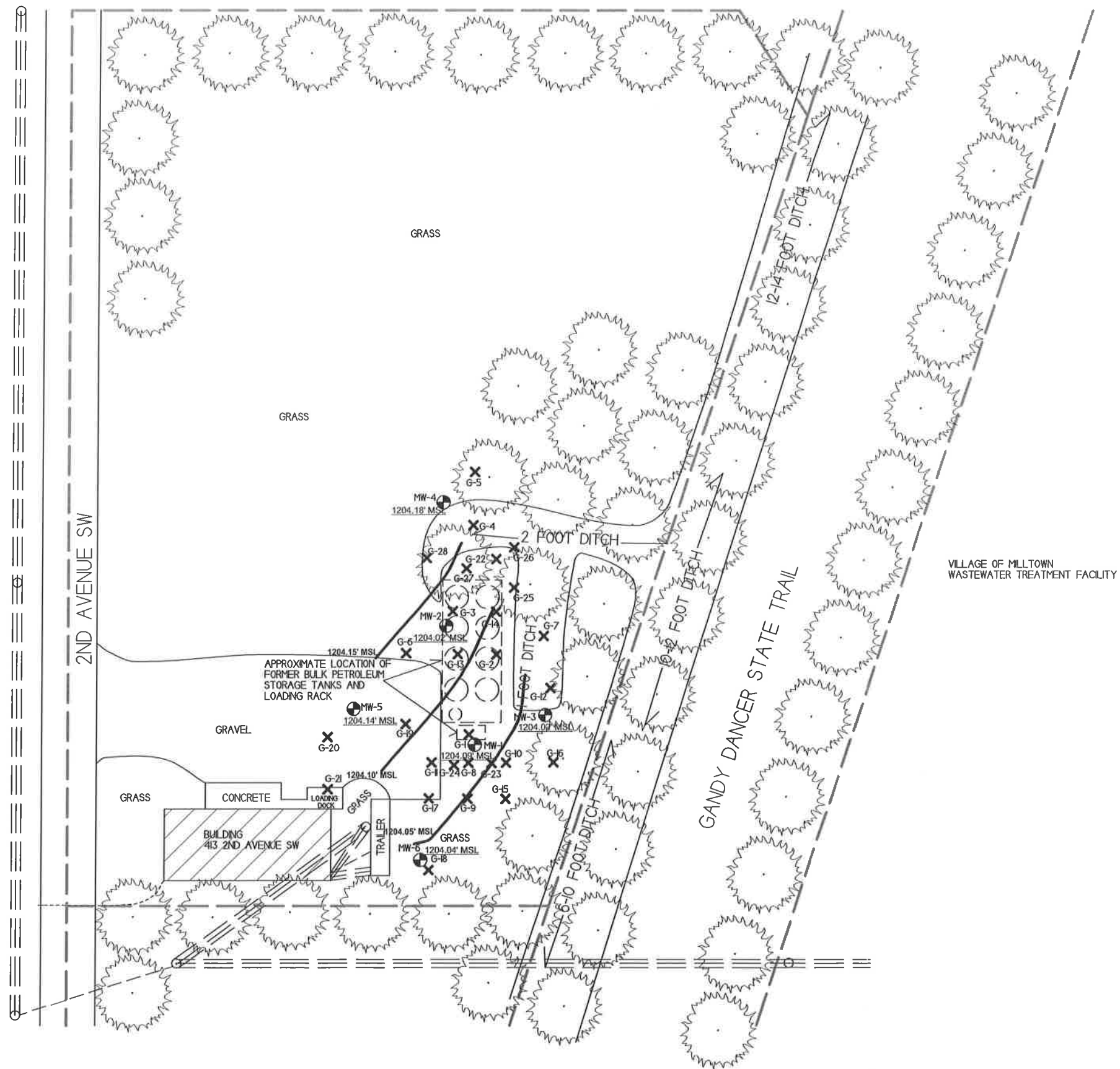
B.3.c. GROUNDWATER FLOW MAP (06/14/18)		
OSCEOLA OIL BULK PLANT - MILLTOWN		
	229 Quaker Street, Suite 3 La Crosse, WI 54601 Tel: (608) 785-8078 Fax: (608) 781-8883	MILLTOWN, WISCONSIN DRAWN BY: ED DATE: 03/30/2007


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

- ✕ - SOIL BORING LOCATION
- ⊙ - MONITORING WELL LOCATION



- - BURIED ELECTRIC LINE
- - - - TELEPHONE/FIBER OPTIC LINE
- ==== OVERHEAD LINES
- - PROPERTY BOUNDARY



B.3.d.	
MONITORING WELLS	
OSCEOLA OIL BULK PLANT - MILLTOWN	
 2009 GARDNER DRIVE, SUITE 3 MILWAUKEE, WI 53212 TEL: (414) 731-4073 FAX: (414) 731-4065	MILLTOWN, WISCONSIN
	DRAWN BY: ED DATE: 03/30/2007

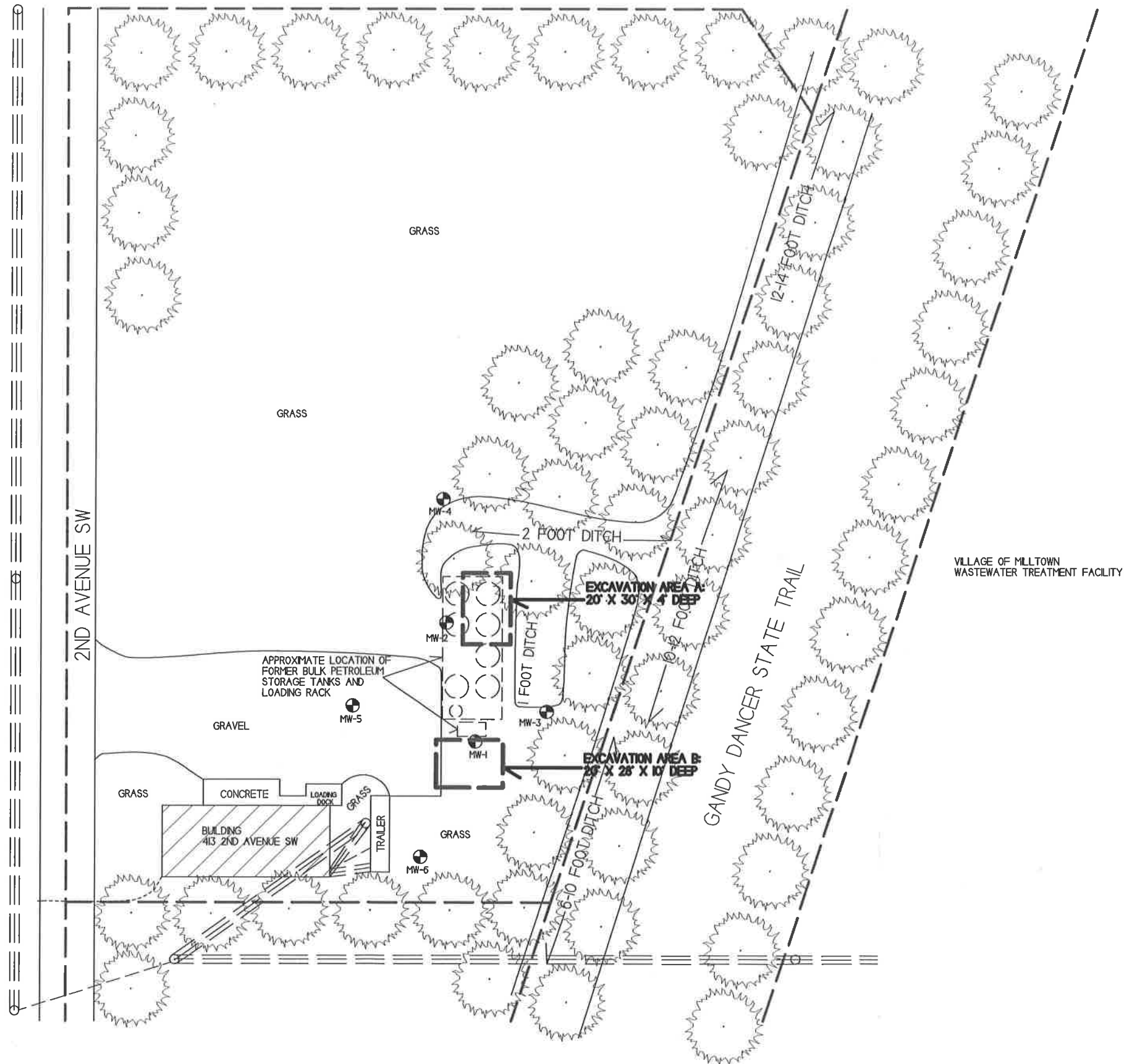


NOTE: INFORMATION BASED ON AVAILABLE DATA. ACTUAL CONDITIONS MAY DIFFER

⊕ - MONITORING WELL LOCATION - PROPOSED TO BE ABANDONED



- - BURIED ELECTRIC LINE
- - TELEPHONE/FIBER OPTIC LINE
- ==== - OVERHEAD LINES
- - PROPERTY BOUNDARY





## Attachment C/Documentation of Remedial Action

### C.1 Site Investigation documentation – Previous site investigation activities are documented in the following reports:

- Site Investigation Report – August, 2017
- Letter Report – August, 2018

Since the last submittal to the WDNR, a soil excavation project was conducted on October 17-18, 2018 with a total of 497.43 tons of contaminated soil removed. Six soil samples were collected from the sidewalls of the excavation and analyzed for PAH and PVOC. Included in Attachment C is the laboratory report from the October 17-18, 2018 excavation project.

### C.2 Investigative waste

C.3 Provide a description of the methodology used along with all supporting documentation if the Residual Contaminant Levels are different than those contained in the Department's RCL Spreadsheet available at: <http://dnr.wi.gov/topic/brownfields.Professionals.html> - Residual Contaminant Levels (RCLs) were established in accordance with NR 720.10 and NR 720.12. Soil RCL for the protection of the groundwater pathway and for non-industrial direct contact were taken from the RR programs RCL spreadsheet.

C.4 Construction documentation – No remedial systems were installed.

C.5 Decommissioning of Remedial Systems – No remedial systems were installed.

C.6 Other – Not Applicable

# C.I. Site Investigation Documentation

## Synergy Environmental Lab,

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

MIKE MONTGOMERY  
 MIKE MONTGOMERY  
 9845 187TH STREET  
 DRESSER, WI 54009

Report Date 31-Oct-18

Project Name OSCEOLA BULK PLANT  
 Project #

Invoice # E35387

Lab Code 5035387A  
 Sample ID EX-1  
 Sample Matrix Soil  
 Sample Date 10/17/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	85.2	%			1	5021		10/22/2018	NJC	1
Organic										
PAH SIM										
Acenaphthene	< 0.0151	mg/kg	0.0151	0.0481	1	M8270C	10/26/2018	10/27/2018	NJC	1
Acenaphthylene	< 0.0159	mg/kg	0.0159	0.0508	1	M8270C	10/26/2018	10/27/2018	NJC	1
Anthracene	< 0.0109	mg/kg	0.0109	0.0345	1	M8270C	10/26/2018	10/27/2018	NJC	1
Benzo(a)anthracene	0.045 "J"	mg/kg	0.016	0.053	1	M8270C	10/26/2018	10/27/2018	NJC	1
Benzo(a)pyrene	0.042	mg/kg	0.013	0.042	1	M8270C	10/26/2018	10/27/2018	NJC	1
Benzo(b)fluoranthene	0.072	mg/kg	0.013	0.041	1	M8270C	10/26/2018	10/27/2018	NJC	1
Benzo(g,h,i)perylene	0.036	mg/kg	0.0114	0.036	1	M8270C	10/26/2018	10/27/2018	NJC	1
Benzo(k)fluoranthene	0.0314 "J"	mg/kg	0.0147	0.0469	1	M8270C	10/26/2018	10/27/2018	NJC	1
Chrysene	0.049	mg/kg	0.0121	0.0383	1	M8270C	10/26/2018	10/27/2018	NJC	1
Dibenzo(a,h)anthracene	< 0.0078	mg/kg	0.0078	0.0251	1	M8270C	10/26/2018	10/27/2018	NJC	1
Fluoranthene	0.06	mg/kg	0.0147	0.0469	1	M8270C	10/26/2018	10/27/2018	NJC	1
Fluorene	< 0.0179	mg/kg	0.0179	0.057	1	M8270C	10/26/2018	10/27/2018	NJC	1
Indeno(1,2,3-cd)pyrene	0.0244 "J"	mg/kg	0.0114	0.0362	1	M8270C	10/26/2018	10/27/2018	NJC	1
1-Methyl naphthalene	< 0.0203	mg/kg	0.0203	0.0645	1	M8270C	10/26/2018	10/27/2018	NJC	1
2-Methyl naphthalene	< 0.0113	mg/kg	0.0113	0.0358	1	M8270C	10/26/2018	10/27/2018	NJC	1
Naphthalene	< 0.0153	mg/kg	0.0153	0.0486	1	M8270C	10/26/2018	10/27/2018	NJC	1
Phenanthrene	0.0174 "J"	mg/kg	0.0111	0.0352	1	M8270C	10/26/2018	10/27/2018	NJC	1
Pyrene	0.062	mg/kg	0.0153	0.0487	1	M8270C	10/26/2018	10/27/2018	NJC	1
PVOC										
Benzene	< 0.025	mg/kg	0.0095	0.03	1	GRO95/8021		10/29/2018	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.016	0.05	1	GRO95/8021		10/29/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.011	0.034	1	GRO95/8021		10/29/2018	CJR	1

Lab Code 5035387A  
 Sample ID EX-1  
 Sample Matrix Soil  
 Sample Date 10/17/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Toluene	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		10/29/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		10/29/2018	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.0096	0.031	1	GRO95/8021		10/29/2018	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.013	0.042	1	GRO95/8021		10/29/2018	CJR	1
o-Xylene	< 0.025	mg/kg	0.0062	0.02	1	GRO95/8021		10/29/2018	CJR	1

Lab Code 5035387B  
 Sample ID EX-2  
 Sample Matrix Soil  
 Sample Date 10/17/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
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General

General

Solids Percent	94.7	%			1	5021		10/22/2018	NJC	1
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Organic

PAH SIM

Acenaphthene	< 0.0151	mg/kg	0.0151	0.0481	1	M8270C	10/26/2018	10/27/2018	NJC	1
Acenaphthylene	< 0.0159	mg/kg	0.0159	0.0508	1	M8270C	10/26/2018	10/27/2018	NJC	1
Anthracene	< 0.0109	mg/kg	0.0109	0.0345	1	M8270C	10/26/2018	10/27/2018	NJC	1
Benzo(a)anthracene	0.0185 "J"	mg/kg	0.016	0.053	1	M8270C	10/26/2018	10/27/2018	NJC	1
Benzo(a)pyrene	< 0.013	mg/kg	0.013	0.042	1	M8270C	10/26/2018	10/27/2018	NJC	1
Benzo(b)fluoranthene	0.0217 "J"	mg/kg	0.013	0.041	1	M8270C	10/26/2018	10/27/2018	NJC	1
Benzo(g,h,i)perylene	< 0.0114	mg/kg	0.0114	0.036	1	M8270C	10/26/2018	10/27/2018	NJC	1
Benzo(k)fluoranthene	< 0.0147	mg/kg	0.0147	0.0469	1	M8270C	10/26/2018	10/27/2018	NJC	1
Chrysene	0.0136 "J"	mg/kg	0.0121	0.0383	1	M8270C	10/26/2018	10/27/2018	NJC	1
Dibenzo(a,h)anthracene	< 0.0078	mg/kg	0.0078	0.0251	1	M8270C	10/26/2018	10/27/2018	NJC	1
Fluoranthene	< 0.0147	mg/kg	0.0147	0.0469	1	M8270C	10/26/2018	10/27/2018	NJC	1
Fluorene	< 0.0179	mg/kg	0.0179	0.057	1	M8270C	10/26/2018	10/27/2018	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0114	mg/kg	0.0114	0.0362	1	M8270C	10/26/2018	10/27/2018	NJC	1
1-Methyl naphthalene	< 0.0203	mg/kg	0.0203	0.0645	1	M8270C	10/26/2018	10/27/2018	NJC	1
2-Methyl naphthalene	< 0.0113	mg/kg	0.0113	0.0358	1	M8270C	10/26/2018	10/27/2018	NJC	1
Naphthalene	< 0.0153	mg/kg	0.0153	0.0486	1	M8270C	10/26/2018	10/27/2018	NJC	1
Phenanthrene	< 0.0111	mg/kg	0.0111	0.0352	1	M8270C	10/26/2018	10/27/2018	NJC	1
Pyrene	< 0.0153	mg/kg	0.0153	0.0487	1	M8270C	10/26/2018	10/27/2018	NJC	1

PVOC

Benzene	< 0.025	mg/kg	0.0095	0.03	1	GRO95/8021		10/29/2018	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.016	0.05	1	GRO95/8021		10/29/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.011	0.034	1	GRO95/8021		10/29/2018	CJR	1
Toluene	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		10/29/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		10/29/2018	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.0096	0.031	1	GRO95/8021		10/29/2018	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.013	0.042	1	GRO95/8021		10/29/2018	CJR	1
o-Xylene	< 0.025	mg/kg	0.0062	0.02	1	GRO95/8021		10/29/2018	CJR	1

Project Name OSCEOLA BULK PLANT  
 Project #

Invoice # E35387

Lab Code 5035387C  
 Sample ID EX-3  
 Sample Matrix Soil  
 Sample Date 10/18/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	89.9	%			1	5021		10/22/2018	NJC	1
Organic										
PAH SIM										
Acenaphthene	< 0.0151	mg/kg	0.0151	0.0481	1	M8270C	10/30/2018	10/30/2018	NJC	1
Acenaphthylene	< 0.0159	mg/kg	0.0159	0.0508	1	M8270C	10/30/2018	10/30/2018	NJC	1
Anthracene	< 0.0109	mg/kg	0.0109	0.0345	1	M8270C	10/30/2018	10/30/2018	NJC	1
Benzo(a)anthracene	0.045 "J"	mg/kg	0.016	0.053	1	M8270C	10/30/2018	10/30/2018	NJC	1
Benzo(a)pyrene	0.048	mg/kg	0.013	0.042	1	M8270C	10/30/2018	10/30/2018	NJC	1
Benzo(b)fluoranthene	0.075	mg/kg	0.013	0.041	1	M8270C	10/30/2018	10/30/2018	NJC	1
Benzo(g,h,i)perylene	0.049	mg/kg	0.0114	0.036	1	M8270C	10/30/2018	10/30/2018	NJC	1
Benzo(k)fluoranthene	0.0288 "J"	mg/kg	0.0147	0.0469	1	M8270C	10/30/2018	10/30/2018	NJC	1
Chrysene	0.045	mg/kg	0.0121	0.0383	1	M8270C	10/30/2018	10/30/2018	NJC	1
Dibenzo(a,h)anthracene	0.0131 "J"	mg/kg	0.0078	0.0251	1	M8270C	10/30/2018	10/30/2018	NJC	1
Fluoranthene	0.051	mg/kg	0.0147	0.0469	1	M8270C	10/30/2018	10/30/2018	NJC	1
Fluorene	< 0.0179	mg/kg	0.0179	0.057	1	M8270C	10/30/2018	10/30/2018	NJC	1
Indeno(1,2,3-cd)pyrene	0.035 "J"	mg/kg	0.0114	0.0362	1	M8270C	10/30/2018	10/30/2018	NJC	1
1-Methyl naphthalene	< 0.0203	mg/kg	0.0203	0.0645	1	M8270C	10/30/2018	10/30/2018	NJC	1
2-Methyl naphthalene	< 0.0113	mg/kg	0.0113	0.0358	1	M8270C	10/30/2018	10/30/2018	NJC	1
Naphthalene	< 0.0153	mg/kg	0.0153	0.0486	1	M8270C	10/30/2018	10/30/2018	NJC	1
Phenanthrene	0.0153 "J"	mg/kg	0.0111	0.0352	1	M8270C	10/30/2018	10/30/2018	NJC	1
Pyrene	0.052	mg/kg	0.0153	0.0487	1	M8270C	10/30/2018	10/30/2018	NJC	1
PVOC										
Benzene	< 0.025	mg/kg	0.0095	0.03	1	GRO95/8021		10/29/2018	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.016	0.05	1	GRO95/8021		10/29/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.011	0.034	1	GRO95/8021		10/29/2018	CJR	1
Toluene	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		10/29/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		10/29/2018	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.0096	0.031	1	GRO95/8021		10/29/2018	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.013	0.042	1	GRO95/8021		10/29/2018	CJR	1
o-Xylene	< 0.025	mg/kg	0.0062	0.02	1	GRO95/8021		10/29/2018	CJR	1

Project Name OSCEOLA BULK PLANT  
 Project #

Invoice # E35387

Lab Code 5035387D  
 Sample ID EX-4  
 Sample Matrix Soil  
 Sample Date 10/18/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	88.7	%			1	5021		10/22/2018	NJC	1
Organic										
PAH SIM										
Acenaphthene	< 0.0151	mg/kg	0.0151	0.0481	1	M8270C	10/30/2018	10/30/2018	NJC	1
Acenaphthylene	< 0.0159	mg/kg	0.0159	0.0508	1	M8270C	10/30/2018	10/30/2018	NJC	1
Anthracene	< 0.0109	mg/kg	0.0109	0.0345	1	M8270C	10/30/2018	10/30/2018	NJC	1
Benzo(a)anthracene	< 0.016	mg/kg	0.016	0.053	1	M8270C	10/30/2018	10/30/2018	NJC	1
Benzo(a)pyrene	< 0.013	mg/kg	0.013	0.042	1	M8270C	10/30/2018	10/30/2018	NJC	1
Benzo(b)fluoranthene	< 0.013	mg/kg	0.013	0.041	1	M8270C	10/30/2018	10/30/2018	NJC	1
Benzo(g,h,i)perylene	< 0.0114	mg/kg	0.0114	0.036	1	M8270C	10/30/2018	10/30/2018	NJC	1
Benzo(k)fluoranthene	< 0.0147	mg/kg	0.0147	0.0469	1	M8270C	10/30/2018	10/30/2018	NJC	1
Chrysene	< 0.0121	mg/kg	0.0121	0.0383	1	M8270C	10/30/2018	10/30/2018	NJC	1
Dibenzo(a,h)anthracene	< 0.0078	mg/kg	0.0078	0.0251	1	M8270C	10/30/2018	10/30/2018	NJC	1
Fluoranthene	< 0.0147	mg/kg	0.0147	0.0469	1	M8270C	10/30/2018	10/30/2018	NJC	1
Fluorene	< 0.0179	mg/kg	0.0179	0.057	1	M8270C	10/30/2018	10/30/2018	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0114	mg/kg	0.0114	0.0362	1	M8270C	10/30/2018	10/30/2018	NJC	1
1-Methyl naphthalene	< 0.0203	mg/kg	0.0203	0.0645	1	M8270C	10/30/2018	10/30/2018	NJC	1
2-Methyl naphthalene	< 0.0113	mg/kg	0.0113	0.0358	1	M8270C	10/30/2018	10/30/2018	NJC	1
Naphthalene	< 0.0153	mg/kg	0.0153	0.0486	1	M8270C	10/30/2018	10/30/2018	NJC	1
Phenanthrene	< 0.0111	mg/kg	0.0111	0.0352	1	M8270C	10/30/2018	10/30/2018	NJC	1
Pyrene	< 0.0153	mg/kg	0.0153	0.0487	1	M8270C	10/30/2018	10/30/2018	NJC	1
PVOC										
Benzene	< 0.025	mg/kg	0.0095	0.03	1	GRO95/8021		10/29/2018	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.016	0.05	1	GRO95/8021		10/29/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.011	0.034	1	GRO95/8021		10/29/2018	CJR	1
Toluene	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		10/29/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		10/29/2018	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.0096	0.031	1	GRO95/8021		10/29/2018	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.013	0.042	1	GRO95/8021		10/29/2018	CJR	1
o-Xylene	< 0.025	mg/kg	0.0062	0.02	1	GRO95/8021		10/29/2018	CJR	1

Project #

Lab Code 5035387E  
 Sample ID EX-5  
 Sample Matrix Soil  
 Sample Date 10/18/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	88.5	%			1	5021		10/22/2018	NJC	1
Organic										
PAH SIM										
Acenaphthene	< 0.0151	mg/kg	0.0151	0.0481	1	M8270C	10/30/2018	10/30/2018	NJC	1
Acenaphthylene	< 0.0159	mg/kg	0.0159	0.0508	1	M8270C	10/30/2018	10/30/2018	NJC	1
Anthracene	< 0.0109	mg/kg	0.0109	0.0345	1	M8270C	10/30/2018	10/30/2018	NJC	1
Benzo(a)anthracene	< 0.016	mg/kg	0.016	0.053	1	M8270C	10/30/2018	10/30/2018	NJC	1
Benzo(a)pyrene	< 0.013	mg/kg	0.013	0.042	1	M8270C	10/30/2018	10/30/2018	NJC	1
Benzo(b)fluoranthene	< 0.013	mg/kg	0.013	0.041	1	M8270C	10/30/2018	10/30/2018	NJC	1
Benzo(g,h,i)perylene	< 0.0114	mg/kg	0.0114	0.036	1	M8270C	10/30/2018	10/30/2018	NJC	1
Benzo(k)fluoranthene	< 0.0147	mg/kg	0.0147	0.0469	1	M8270C	10/30/2018	10/30/2018	NJC	1
Chrysene	< 0.0121	mg/kg	0.0121	0.0383	1	M8270C	10/30/2018	10/30/2018	NJC	1
Dibenzo(a,h)anthracene	< 0.0078	mg/kg	0.0078	0.0251	1	M8270C	10/30/2018	10/30/2018	NJC	1
Fluoranthene	< 0.0147	mg/kg	0.0147	0.0469	1	M8270C	10/30/2018	10/30/2018	NJC	1
Fluorene	< 0.0179	mg/kg	0.0179	0.057	1	M8270C	10/30/2018	10/30/2018	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0114	mg/kg	0.0114	0.0362	1	M8270C	10/30/2018	10/30/2018	NJC	1
1-Methyl naphthalene	< 0.0203	mg/kg	0.0203	0.0645	1	M8270C	10/30/2018	10/30/2018	NJC	1
2-Methyl naphthalene	< 0.0113	mg/kg	0.0113	0.0358	1	M8270C	10/30/2018	10/30/2018	NJC	1
Naphthalene	< 0.0153	mg/kg	0.0153	0.0486	1	M8270C	10/30/2018	10/30/2018	NJC	1
Phenanthrene	< 0.0111	mg/kg	0.0111	0.0352	1	M8270C	10/30/2018	10/30/2018	NJC	1
Pyrene	< 0.0153	mg/kg	0.0153	0.0487	1	M8270C	10/30/2018	10/30/2018	NJC	1
PVOC										
Benzene	< 0.025	mg/kg	0.0095	0.03	1	GRO95/8021		10/29/2018	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.016	0.05	1	GRO95/8021		10/29/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.011	0.034	1	GRO95/8021		10/29/2018	CJR	1
Toluene	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		10/29/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		10/29/2018	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.0096	0.031	1	GRO95/8021		10/29/2018	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.013	0.042	1	GRO95/8021		10/29/2018	CJR	1
o-Xylene	< 0.025	mg/kg	0.0062	0.02	1	GRO95/8021		10/29/2018	CJR	1

Project Name OSCEOLA BULK PLANT  
 Project #

Invoice # E35387

Lab Code 5035387F  
 Sample ID EX-6  
 Sample Matrix Soil  
 Sample Date 10/18/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	85.1	%			1	5021		10/22/2018	NJC	1
Organic										
PAH SIM										
Acenaphthene	< 0.0151	mg/kg	0.0151	0.0481	1	M8270C	10/30/2018	10/30/2018	NJC	1
Acenaphthylene	< 0.0159	mg/kg	0.0159	0.0508	1	M8270C	10/30/2018	10/30/2018	NJC	1
Anthracene	< 0.0109	mg/kg	0.0109	0.0345	1	M8270C	10/30/2018	10/30/2018	NJC	1
Benzo(a)anthracene	0.0165 "J"	mg/kg	0.016	0.053	1	M8270C	10/30/2018	10/30/2018	NJC	1
Benzo(a)pyrene	< 0.013	mg/kg	0.013	0.042	1	M8270C	10/30/2018	10/30/2018	NJC	1
Benzo(b)fluoranthene	< 0.013	mg/kg	0.013	0.041	1	M8270C	10/30/2018	10/30/2018	NJC	1
Benzo(g,h,i)perylene	< 0.0114	mg/kg	0.0114	0.036	1	M8270C	10/30/2018	10/30/2018	NJC	1
Benzo(k)fluoranthene	< 0.0147	mg/kg	0.0147	0.0469	1	M8270C	10/30/2018	10/30/2018	NJC	1
Chrysene	< 0.0121	mg/kg	0.0121	0.0383	1	M8270C	10/30/2018	10/30/2018	NJC	1
Dibenzo(a,h)anthracene	< 0.0078	mg/kg	0.0078	0.0251	1	M8270C	10/30/2018	10/30/2018	NJC	1
Fluoranthene	< 0.0147	mg/kg	0.0147	0.0469	1	M8270C	10/30/2018	10/30/2018	NJC	1
Fluorene	< 0.0179	mg/kg	0.0179	0.057	1	M8270C	10/30/2018	10/30/2018	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0114	mg/kg	0.0114	0.0362	1	M8270C	10/30/2018	10/30/2018	NJC	1
1-Methyl naphthalene	< 0.0203	mg/kg	0.0203	0.0645	1	M8270C	10/30/2018	10/30/2018	NJC	1
2-Methyl naphthalene	< 0.0113	mg/kg	0.0113	0.0358	1	M8270C	10/30/2018	10/30/2018	NJC	1
Naphthalene	< 0.0153	mg/kg	0.0153	0.0486	1	M8270C	10/30/2018	10/30/2018	NJC	1
Phenanthrene	< 0.0111	mg/kg	0.0111	0.0352	1	M8270C	10/30/2018	10/30/2018	NJC	1
Pyrene	< 0.0153	mg/kg	0.0153	0.0487	1	M8270C	10/30/2018	10/30/2018	NJC	1
PVOC										
Benzene	< 0.025	mg/kg	0.0095	0.03	1	GRO95/8021		10/29/2018	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.016	0.05	1	GRO95/8021		10/29/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.011	0.034	1	GRO95/8021		10/29/2018	CJR	1
Toluene	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		10/29/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		10/29/2018	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.0096	0.031	1	GRO95/8021		10/29/2018	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.013	0.042	1	GRO95/8021		10/29/2018	CJR	1
o-Xylene	< 0.025	mg/kg	0.0062	0.02	1	GRO95/8021		10/29/2018	CJR	1

Project Name OSCEOLA BULK PLANT  
Project #

Invoice # E35387

Lab Code 5035387G  
Sample ID MEOH BLANK  
Sample Matrix Soil  
Sample Date 10/18/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC										
Benzene	< 0.025	mg/kg	0.0095	0.03	1	GRO95/8021		10/30/2018	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.016	0.05	1	GRO95/8021		10/30/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.011	0.034	1	GRO95/8021		10/30/2018	CJR	1
Toluene	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		10/30/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		10/30/2018	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.0096	0.031	1	GRO95/8021		10/30/2018	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.013	0.042	1	GRO95/8021		10/30/2018	CJR	1
o-Xylene	< 0.025	mg/kg	0.0062	0.02	1	GRO95/8021		10/30/2018	CJR	1

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

LOQ Limit of Quantitation

**Code**      **Comment**

1      Laboratory QC within limits.

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

Authorized Signature

*Michael Ricker*



## Environmental Lab, Inc.

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

**Sample Handling Request**

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

Normal Turn Around

Lab I.D. # \_\_\_\_\_  
Account No. : \_\_\_\_\_ Quote No.: \_\_\_\_\_  
Project #: \_\_\_\_\_  
Sampler: (signature) *A. T. Powell*

Project (Name / Location): *Osceola Bulk Plant - Former, Milltown WI*

Reports To: <i>Michael Montgomery</i>	Invoice To: <i>Michael Montgomery</i>
Company	Company <i>elo METCO</i>
Address <i>945 187th Street</i>	Address <i>709 G. Lake St. - Ste #3</i>
City State Zip <i>Dresser, WI 54009</i>	City State Zip <i>La Crosse WI 54603</i>
Phone	Phone <i>608-781-8879</i>
FAX	FAX

Analysis Requested												Other Analysis											
DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 524.2)	VOC (EPA 8260)	B-R-CRA METALS	PID/FID									

Lab I.D.	Sample I.D.	Collection Date	Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation
5055387 A	EX-1	10/17/18	4:50P		✓		3	S	Meott
B	EX-2	↓	5:00P		↓		↓	↓	↓
C	EX-3	10/18/18	6:45A		↓		↓	↓	↓
D	EX-4	↓	9:15A		↓		↓	↓	↓
E	EX-5	↓	10:00A		↓		↓	↓	↓
F	EX-6	↓	1:00P		↓		↓	↓	↓
G	Meott Blank	-	-						

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

*Note to Lab: Copies of report to METCO Lax Attn: Jason  
w/c Retu Apply  
"Agent Status"*

Sample Integrity - To be completed by receiving lab. Method of Shipment: <i>GC</i> Temp. of Temp. Blank _____ °C On Ice <input checked="" type="checkbox"/> Cooler seal intact upon receipt: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Relinquished By: (sign) <i>A. T. Powell</i>	Time <i>8:00 A.M.</i>	Date <i>10/18/18</i>	Received By: (sign) _____	Time _____	Date _____
	Received in Laboratory By: <i>Chimada/R...</i>					
	Time: <i>10:00</i> Date: <i>10/20/18</i>					

# C.I. Investigative Wastes

**DKS Transport Services, LLC**

N7349 548th Street  
Menomonie, WI 54751  
715-556-2604

INVOICE

5-21

20 18

CUSTOMER

JOB NAME

Metro % Mike Montgomery  
709 Gillett St  
La Crosse WI 54603

Oscoda Oil Bulk Plant  
Milhouse WI

CASH  CHECK # \_\_\_\_\_  IN-HOUSE ACCOUNT

QUANTITY		DESCRIPTION	QTY.	UNIT PRICE		AMOUNT	
DATE	SHIPPED						
	1	MORILIZATION	1	287	70	287	70
	12	Haul soil drums to Advanced Disposal Eau Claire WI	12	108	15	1297	80
		Thank You					
		Mike Adams					
						TOTAL	1585 50

due upon receipt of invoice.  
5% per month Service Charge (18% Annual Percentage Rate) will be added to past due accounts.

SIGNATURE \_\_\_\_\_

218

# C.2. Investigative Wastes

## Invoice

### DKS CONSTRUCTION SERVICES, INC

2520 WILSON STREET  
MENOMONIE, WI 54751


Date	Invoice #
10/19/2018	3596

Bill To

METCO  
% Mike Montgomery  
709 GILLETTE ST  
LACROSSE, WI 54603

P.O. No.	Terms	Due Date	Project
Osceola Oil Co.	Net 30	11/18/2018	

Quantity	Description	Rate	Amount
1	Mobilization (ls)	1,700.00	1,700.00
497.43	Excavate (Ton)	6.00	2,984.58
497.43	Haul (Ton)	18.00	8,953.74
497.43	Disposal (Ton)	30.00	14,922.90
409.43	Fill (Ton)	12.00	4,913.16
88	Gravel (Ton)	18.00	1,584.00
497.43	Backfill & Compaction (Ton)	4.00	1,989.72
	Jobsite: 413 2nd Ave SW, Milltown WI Work Done on 10/18/2018 WI & Dunn Sales Tax	5.50%	0.00

*Soil Excavation / Disposal Project*  
*Reviewed 10/22/18*  
*OK*  


Phone # 715-235-2600

**Total** \$37,048.10

A 1.5% Interest fee may be charged to invoices past Due Date stated on the invoice. Interest charges may be billed on first day past Due Date on invoice.

# Republic Services - SARONA UT LANDFILL

## Detail Contract Activity Report

Ticket Type: SCALE TICKET

October 18, 2018 to Oct

Specific Contract(s) : '51341815697'

History and Waiting

\* - Confirmed Qty Applied to Billing

*Oseada Oil Company - Milltown UT Site*

51341815697

Ticket Date	Facility & Ticket Number	Customer	Truck	Material	Billing quantity	
10/18/2018	I 01 1047724	003848 - DKS Construction Services	TRK1	SW-CONT SOIL-ALT D	27.58	TN
10/18/2018	I 01 1047727	003848 - DKS Construction Services	TRK1	SW-CONT SOIL-ALT D	22.38	TN
10/18/2018	I 01 1047728	003848 - DKS Construction Services	TRK1	SW-CONT SOIL-ALT D	23.98	TN
10/18/2018	I 01 1047729	003848 - DKS Construction Services	TRK1	SW-CONT SOIL-ALT D	25.02	TN
10/18/2018	I 01 1047740	003848 - DKS Construction Services	TRK1	SW-CONT SOIL-ALT D	25.74	TN
10/18/2018	I 01 1047741	003848 - DKS Construction Services	TRK1	SW-CONT SOIL-ALT D	23.54	TN
10/18/2018	I 01 1047744	003848 - DKS Construction Services	TRK1	SW-CONT SOIL-ALT D	23.24	TN
10/18/2018	I 01 1047759	003848 - DKS Construction Services	TRK1	SW-CONT SOIL-ALT D	22.13	TN
10/18/2018	I 01 1047760	003848 - DKS Construction Services	TRK1	SW-CONT SOIL-ALT D	24.40	TN
10/18/2018	I 01 1047763	003848 - DKS Construction Services	TRK1	SW-CONT SOIL-ALT D	22.51	TN
10/18/2018	I 01 1047766	003848 - DKS Construction Services	TRK1	SW-CONT SOIL-ALT D	24.58	TN
10/18/2018	I 01 1047770	003848 - DKS Construction Services	TRK1	SW-CONT SOIL-ALT D	21.08	TN
10/18/2018	I 01 1047771	003848 - DKS Construction Services	TRK1	SW-CONT SOIL-ALT D	23.09	TN
10/18/2018	I 01 1047775	003848 - DKS Construction Services	TRK1	SW-CONT SOIL-ALT D	20.71	TN
10/18/2018	I 01 1047798	003848 - DKS Construction Services	TRK1	SW-CONT SOIL-ALT D	24.50	TN
10/18/2018	I 01 1047799	003848 - DKS Construction Services	TRK1	SW-CONT SOIL-ALT D	23.02	TN
10/18/2018	I 01 1047805	003848 - DKS Construction Services	TRK1	SW-CONT SOIL-ALT D	22.94	TN
10/18/2018	I 01 1047808	003848 - DKS Construction Services	TRK1	SW-CONT SOIL-ALT D	23.65	TN
10/18/2018	I 01 1047812	003848 - DKS Construction Services	TRK1	SW-CONT SOIL-ALT D	27.26	TN
10/18/2018	I 01 1047814	003848 - DKS Construction Services	TRK1	SW-CONT SOIL-ALT D	21.65	TN
10/18/2018	I 01 1047825	003848 - DKS Construction Services	TRK1	SW-CONT SOIL-ALT D	24.43	TN

Tickets Reported: 21 Items Reported: 21

Material Summary	Weight		Volume		Count	
	Inbound	Outbound	Inbound	Outbound	Inbound	Outbound
VI - SW-CONT SOIL-ALT DAILY COVER	497.43	0.00	TI	0.00	0.00	YD

*497.43 ton*

Tickets Reported: 21 Items Reported: 21

Material Summary	Weight	Volume	Count
------------------	--------	--------	-------

**Attachment D/Maintenance Plan(s)**

- D.1 Descriptions of maintenance action(s) required for maximizing effectiveness of the engineered control, vapor mitigation system, feature or other action for which maintenance is required via cap maintenance plan. – No maintenance plan is being required at this time.
- D.2 Location map(s) – No maintenance plan is being required at this time.
- D.3 Photographs – No maintenance plan is being required at this time.
- D.4 Inspection log – No maintenance plan is being required at this time.

## **Attachment E/Monitoring Well Information**

All monitoring wells have been located and will be properly abandoned upon WDNR granting closure to the site.

## **Attachment F/Source Legal Documents**

### **F.1 Deed**

**F.2 Certified Survey Map** – There is no CSM or Plat Map for this parcel. Therefore, a parcel map from the Polk County website is being used.

**F.3 Verification of Zoning** – According to the Milltown Zoning District Map, the source property and surrounding properties are zoned as G-2-Commercial.

### **F.4 Signed Statement**

# F.I. Deed

This indenture, Made this 17<sup>th</sup> day of August, A.D., 1997,  
between H.C. Mayer & Sons, Inc., a Minnesota corporation

Minnesota Corporation duly  
organized and existing under and by virtue of the laws of the State of Minnesota, located at  
in Nubbesita, Wisconsin, party of the first part, and  
Northern Osceola Oil, Inc., a Wisconsin corporation

part y of the second part.  
Witnesseth, That the said party of the first part, for and in consideration of the sum of

to it paid by the said part y of the second part, the receipt whereof is hereby confessed  
and acknowledged, has given, granted, bargained, sold, remised, released, aliened, conveyed  
and confirmed, and by these presents does give, grant, bargain, sell, remise, alien, convey and  
confirm unto the said part y of the second part, its heirs  
and assigns forever, the following described real estate, situated in the County of  
Polk State of Wisconsin, to-wit:

All that part of the Northwest Quarter of the Southwest Quarter (NW $\frac{1}{4}$   
SW $\frac{1}{4}$ ) of Section Seventeen (17), Township Thirty-five (35) North of Range  
Seventeen (17) West lying West of the Minneapolis, St. Paul and Sault  
Saint Marie Railroad, and also, All that part of the Southwest Quarter  
of the Northwest Quarter (SW $\frac{1}{4}$  NW $\frac{1}{4}$ ) of said Section Seventeen (17), lying West of said railroad in the Southwest  
corner of said SW $\frac{1}{4}$  of NW $\frac{1}{4}$ , more particularly described as follows: Commencing at a quarter post on section line  
between 17 and 18 in 35-17, thence East about 12 rods 11 feet to "Soo" right-of-way, thence in a Northeasterly  
direction along said right-of-way about 18 rods 15 feet, thence in a Northwesterly direction about 2 rods 13  
feet 9 inches, thence West about 17 rods 12 inches, to section line, thence South on Section line 21 rods 14  
feet 6 inches to place of beginning.

(IF NECESSARY, CONTINUE DESCRIPTION ON REVERSE SIDE)

Together with all and singular the hereditaments and appurtenances thereunto belonging or in any wise appertaining; and all the estate,  
right, title, interest, claim or demand whatsoever, of the said party of the first part, either in law or equity, either in possession or expectancy of,  
in and to the above bargained premises, and their hereditaments and appurtenances.

To have and to hold the said premises as above described with the hereditaments and appurtenances, unto the said part y of the  
second part, and to its heirs and assigns FOREVER.

And the said H.C. Mayer & Sons, Inc., a Minnesota corporation  
party of the first part, for itself and its successors, does covenant, grant, bargain and agree to and with the said part y of the second part,  
its heirs and assigns, that at the time of the ensembling and delivery of these presents it is well seized of the premises  
above described, as of a good, sure, perfect, absolute and indefeasible estate of inheritance by the law, in fee simple, and that the same are free and  
clear from all incumbrances whatever,

and that the above bargained premises in the quiet and peaceable possession of the said part y of the second part, its  
heirs, and assigns, against all and every person or persons lawfully claiming the whole or any part thereof, it will forever WARRANT and DEFEND.

In Witness Whereof, the said H.C. Mayer & Sons, Inc., a Minnesota corporation  
party of the first part, has caused these presents to be signed by \_\_\_\_\_

its President, and countersigned by \_\_\_\_\_ its Secretary,  
at \_\_\_\_\_ Minnesota, Wisconsin, and its corporate seal to be hereunto affixed this  
19<sup>th</sup> day of August, A.D., 1997

SIGNED AND SEALED IN PRESENCE OF

TRANSFER  
195-00

H.C. MAYER & SONS, INC. Corporate Name

David C. Mayer President

DAVID C. MAYER, PRES.

COUNTERSIGNED:  
Jane N. Mayer Secretary

JANE N. MAYER, SEC.

State of Wisconsin, MINNESOTA } ss.  
MENNEPIN County.

Personally came before me, this 19<sup>th</sup> day of AUGUST August, A.D., 1997,  
DAVID C. MAYER President, and JANE N. MAYER Secretary

of the above named Corporation, to me known to be the persons who executed the foregoing instrument, and to me known to be such President  
and Secretary of said Corporation, and acknowledged that they executed the foregoing instrument as such officers as the deed of said Corporation,  
by its authority.

THIS INSTRUMENT WAS DRAFTED BY

JEFFREY W. LAMBERT  
NOTARY PUBLIC - WISCONSIN  
Jeffrey W. Lambert

SEP 4 1997

AT 10:45 O'CLOCK A.M.  
Bonnie Hallborg, Register of Deeds  
POLK COUNTY

Bonnie Hallborg

THIS SPACE RESERVED FOR RECORDING DATA  
NAME AND RETURN ADDRESS

Gundill

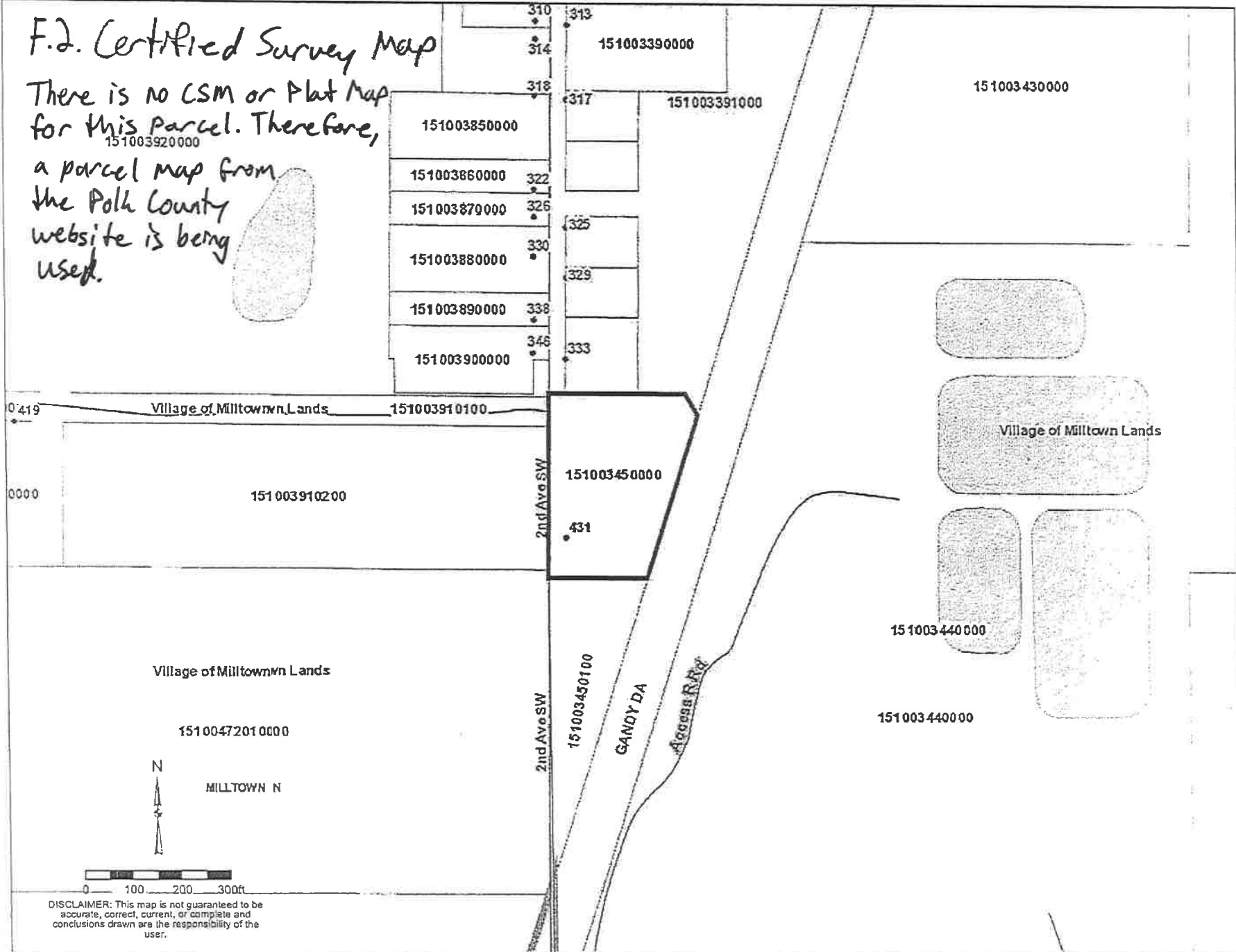
151-345  
PARCEL IDENTIFICATION NUMBER



# F.2. Certified Survey Map

There is no CSM or Plat Map for this parcel. Therefore,

a parcel map from the Polk County website is being used.



## Diana Symitczek

---

**From:** Sally Spanel <sally.spanel@co.polk.wi.us>  
**Sent:** Friday, November 30, 2018 10:54 AM  
**To:** Diana Symitczek  
**Subject:** RE: TW Osceola BP - Polk County Copy of CSM or Plat Map

Hi Diana –

As this is a metes and bounds legal description, there is no Certified Survey Map or Plat Map for this parcel. You can, however, print out a parcel map on the county website.

[www.co.polk.wi.us](http://www.co.polk.wi.us)

Click on "Interactive GIS Maps" (left hand side under Quick Links)

Click, again, on Interactive GIS Map

Enter parcel # shown on your copy of deed in the property format (151-00345-0000)

Highlight parcel at bottom

Click on picture of magnifying glass and it will zoom to the parcel you entered

*Sally L. Spanel*  
Polk County Register of Deeds  
100 Polk County Plaza, Ste. 160  
Balsam Lake, WI 54810  
715-485-9252  
[www.co.polk.wi.us](http://www.co.polk.wi.us)



**From:** Diana Symitczek [mailto:dianajs@metcohq.com]  
**Sent:** Friday, November 30, 2018 10:27 AM  
**To:** Sally Spanel <sally.spanel@co.polk.wi.us>  
**Subject:** TW Osceola BP - Polk County Copy of CSM or Plat Map

Can you please tell me how I can get a copy of the CSM or Plat Map for the attached parcel?

Thank you,

**Diana Symitczek**  
METCO - Environmental Program Assistant  
[dianajs@metcohq.com](mailto:dianajs@metcohq.com) / 608.781.8879  
709 Gillette Street - Suite 3, La Crosse WI 54603  
[www.metcohq.com](http://www.metcohq.com)

# F.3. Verification of Zoning

Polk County, WI | WG Xtreme

Not secure | polkcountygwtreme.com

Search Anything: Enter A Value Here

Property Search

Enter your search criteria below

**Owner Information**

First Name:

Last Name:

**Property Address**

Address:

**Tax Information**

Parcel Label: XXX-XXXX-XXXX

Tax Year: 2017

**Property Information**

**Acres Range**

**Land Value Range**

**Improvement Value Range**

**Total Value Range**

**Fair Market Value Range**

Compare Clear Form

**Parcel Report**

Change Tax Year | View Full External Report | Download / Print

Parcel #: 151-00345-0000 Valid as of 11/30/2018 09:12 AM

Alt. Parcel #: VILLAGE OF MILLTOWN POLK COUNTY WISCONSIN

Owner and Mailing Address: NORTHERN OSCEOLA OIL INC PO BOX 117 OSCEOLA WI 54020

Co-Owner(s):

Physical Property Address(es): 431 2ND AVE SW

Parcel History:

Date	Doc #	Vol/Page	Type
		534/116	
		715/699	

Legal Description: Acres: 2.25  
THE N 15' OF NW SW & PT SW NW ALL LYING W OF RR

Plat: \* N/A-NOT AVAILABLE Tract (S-T-R, 88X 180X 64) Block/Condo Bldg 17-35N-17W

2017 Valuations: Values Last Changed on 05/14/2015

Class and Description	Acres	Land	Improvement	Total
G2-COMMERCIAL	0.000	15,000.00	9,800.00	24,800.00
<b>Totals for 2017</b>				
General Property	0.000	15,000.00	9,800.00	24,800.00
Woodland	0.000	0.00	0.00	0.00
<b>Totals for 2016</b>				
General Property	0.000	15,000.00	9,800.00	24,800.00
Woodland	0.000	0.00	0.00	0.00

2017 Taxes Bill #: 13472 Fair Market Value: 26,000.00 Assessment Ratio: 0.953#

Net Tax	Amnt Due	Amnt Paid	Balance	Installments	Total
Net Tax	593.62	593.62	0.00		
Special Assessments	0.00	0.00	0.00		
Special Charges	0.00	0.00	0.00		
Delinquent Charges	0.00	0.00	0.00		
Private Forest Crop	0.00	0.00	0.00		
Woodland Tax	0.00	0.00	0.00		
Managed Forest Land	0.00	0.00	0.00		
Prop Tax Interest		35.62	0.00		
Spec Tax Interest		0.00	0.00		
Prop Tax Penalty		0.00	0.00		
Spec Tax Penalty		0.00	0.00		
Other Charges	0.00	0.00	0.00		
<b>TOTAL</b>	<b>593.62</b>	<b>629.24</b>	<b>0.00</b>		

Net Tax Rate: 0.026796470

End Date	Total
1 01/31/2018	296.81
2 07/31/2018	296.81
<b>Total</b>	<b>593.62</b>
First Dollar Credit	70.69
Lottery Credit	0.00
<b>Net Tax</b>	<b>593.62</b>

Map: 1:2000

Parcel Location Information:

Parcel #: 151003450000  
 Parcel Label: 151-00345-0000  
 Owner Name: NORTHERN OSCEOLA OIL INC  
 Property Address: 431 2ND AVE SW  
 Municipality: VILLAGE OF MILLTOWN  
 Acres: 2.25  
 Tax Year: 2017  
 Details: [Link]

Map Labels: 151003398400, 151003429000, 151003418000, 151003400000, 151003450000, 151003400000, 151003401900, 151003400000, 2nd Ave SW, GANDY DANCEN & TA

Address: 431 2ND AVE SW

8:13 AM 11/30/2018

Alt. Parcel #:

VILLAGE OF MILLTOWN  
POLK COUNTY,  
WISCONSIN

*F.3. Verification of zoning*

**Owner and Mailing Address:**

NORTHERN OSCEOLA OIL INC  
PO BOX 117  
OSCEOLA WI 54020

**Co-Owner(s):**

**Physical Property Address(es):**

\* 431 2ND AVE SW

**Districts:**

Dist#	Description
1700	WITC DISTRICT
0238	UNITY SCHOOL DIST
0105	MILLTOWN FIRE DIST.

**Parcel History:**

Date	Doc #	Vol/Page	Type
		534/116	
		715/699	

**Legal Description:** Acres: 2.250

THE N 15' OF NW SW & PT SW NW ALL LYING W OF RR

Plat	Tract (S-T-R 40% 160% GL)	Block/Condo Bldg
* N/A-NOT AVAILABLE	17-35N-17W	

**2017 Valuations:**

Values Last Changed on  
05/14/2015

Class and Description	Acres	Land	Improvement	Total
G2-COMMERCIAL	0.000	15,000.00	9,800.00	24,800.00
<b>Totals for 2017</b>				
General Property	0.000	15,000.00	9,800.00	24,800.00
Woodland	0.000	0.00	0.00	0.00
<b>Totals for 2016</b>				
General Property	0.000	15,000.00	9,800.00	24,800.00
Woodland	0.000	0.00	0.00	0.00

**2017 Taxes**

Bill # 13472 Fair Market Value: 26,000.00 Assessment Ratio: 0.9539

	Amt Due	Amt Paid	Balance
Net Tax	593.62	593.62	0.00
Special Assessments	0.00	0.00	0.00
Special Charges	0.00	0.00	0.00
Delinquent Charges	0.00	0.00	0.00
Private Forest Crop	0.00	0.00	0.00
Woodland Tax	0.00	0.00	0.00
Managed Forest Land	0.00	0.00	0.00
Prop Tax Interest		35.62	0.00
Spec Tax Interest		0.00	0.00
Prop Tax Penalty		0.00	0.00
Spec Tax Penalty		0.00	0.00
Other Charges	0.00	0.00	0.00
<b>TOTAL</b>	<b>593.62</b>	<b>629.24</b>	<b>0.00</b>

**Installments**

	End Date	Total
1	01/31/2018	296.81
2	07/31/2018	296.81
<b>Net Mill Rate</b>		0.026786470
<b>Gross Tax</b>		708.82
<b>School Credit</b>		44.51
<b>Total</b>		664.31
<b>First Dollar Credit</b>		70.69
<b>Lottery Credit</b>		0 Claims 0.00
<b>Net Tax</b>		593.62

Interest Calculated For 11/27/2018

(Posted

**Payment** Payments)

Date	Receipt #	Type	Amount	Note
08/09/2018	74491	T	629.24	EJM PIPE/ KJ/ CK3 26212

Key

**F.4. Signed Statement****WDNR BRRTS Case #: 02-49-483615****WDNR Site Name: Osceola Oil BP - Milltown****Geographic Information System (GIS) Registry of Closed Remediation Sites**

In compliance with the revisions to the NR 700 rule series requiring certain closed sites to be listed on the Geographic Information System (GIS) Registry of Closed Remediation Sites (Registry) effective Nov., 2001, I have provided the following information.

To the best of my knowledge the legal descriptions provided and attached to this statement are complete and accurate.

**Responsible Party:***Mike Montgomery**Pres.*

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(print name/title)

*[Handwritten Signature]*  

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(signature)

*11-30-18*  

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(date)

### **Attachment G/Notifications to Owners of Affected Properties**

G.1 Deed – No off-site properties have been impacted.

G.2 Certified Survey Map – No off-site properties have been impacted.

G.3 Verification of Zoning – No off-site properties have been impacted.

G.4 Signed Statement – No off-site properties have been impacted.