From: Voit, Angela <AVoit@trccompanies.com>
Sent: Tuesday, December 17, 2019 2:06 PM
To: Femal, Kristina A - DNR; VanPrice, Kathie - DOT; DOT Hazmat Unit; TeBeest, Sharlene - DOT
Cc: Haak, Daniel
Subject: Final Report: Phase 2.5 Investigation, CTH D Corridor-CTH Y to N. School Street, Oakfield, Fond du Lac County (WisDOT ID 3876-05-00)

Follow Up Flag: Follow up
Flag Status: Flagged

Below is the link to the Final Phase 2.5 Investigation Report for CTH D Corridor, CTH Y to N. School Street in the Oakfield, Fond du Lac County (WisDOT ID 3876-05-00). This report has been uploaded to the WDNR RR Portal and a hard copy is also being sent to you.

Please click the following link to download your file:
https://adhocftp.trccompanies.com:443/AHT/AHT_UI/public/#/password?package=3zD2cGmDkgZvjBoPQa64%2bEakQQ4uxYnuZAePZMvadlxfoS9EDAgP7ltQ1MSiuPrffiznGjQnkO3o%2bIelxS8Y5prPSavFQk9B%2fgISmYDz%2fhc%3d

Angie Voit
Senior Project Coordinator

TRC

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December 17, 2019

Ms. Kristina Femal
Wisconsin Department of Natural Resources
2984 Shawano Ave.
Green Bay, WI 54313-6727

Subject: Phase 2.5 Investigation
CTH D, CTH Y to N. School Street
Oakfield, Fond du Lac County, Wisconsin
WisDOT Project ID #3876-05-00

Dear Ms. Femal:

Enclosed is the Phase 2.5 Site Investigation Report for the CTH D project in Oakfield, Wisconsin. Please review, and we ask for concurrence with the Special Provisions (Appendix G) by January 30, 2020.

Feel free to contact me at (608) 826-3628 with questions or comments.

Sincerely,

TRC

Daniel Haak
Project Manager

cc: Kathie VanPrice – WisDOT (pdf via email)
Shar TeBeest – WisDOT (pdf via email)

Phase 2.5 Investigation

CTH D Corridor, CTH Y to N. School Street
Oakfield, Fond du Lac County, Wisconsin

December 2019

WisDOT Project #3876-05-00

Prepared For:

Wisconsin Department of Transportation

Prepared By:

TRC
708 Heartland Trail, Suite 3000
Madison, Wisconsin 53717

Liz Hoerning
Project Engineer

Daniel Haak, P.E.
Project Manager

Bryan Bergmann
TRC Quality Assurance

TABLE OF CONTENTS

TABLES

FIGURES

APPENDICES

COMMONLY USED ABBREVIATIONS AND ACRONYMS

AST	aboveground storage tank
bgs	below ground surface
BRRTS	Bureau for Remediation and Redevelopment Tracking System
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CTH	County Trunk Highway
CY	cubic yards
DATCP	Department of Agriculture, Trade and Consumer Protection
DRO	diesel range organics
FDM	Facilities Development Manual
EMP	Excavation Management Plan
ERP	Environmental Repair Program
ES	Enforcement Standards
ESA	Environmental Site Assessment
FINDS	Facility Index System/Facility Identification Initiative Program Summary Report
GIS Registry	WDNR Geographic Information System (GIS) Registry of Closed Remediation Sites
GRO	gasoline range organics
HAZWOPER	Code of Federal Registry Chapter 29 (29 CFR) Part 1910.120 Hazardous Waste Operations and Emergency Response
HMA	Hazardous Materials Assessment
IH	Interstate Highway
LQG	large quantity generator
LUST	leaking underground storage tank
NPL	National Priorities List
NR ###	Wisconsin Administrative Code (WAC) Natural Resources (NR) Chapter ###
PAHs	polynuclear aromatic hydrocarbons
PAL	Preventive Action Limits
PCBs	polychlorinated biphenyls
PCE	perchloroethylene/tetrachloroethylene
PID	photoionization detector
PVOCs	petroleum volatile organic compounds
RCLs	Residual Contaminant Levels in NR 720
RCRA	Resource Conservation and Recovery Act
RCRIS	Resource Conservation and Recovery Information System
R/W or ROW	right-of-way
sf	square feet
STH	State Trunk Highway
TCE	trichloroethylene
TRIS	Toxic Chemical Release Inventory System
USGS	United States Geological Survey
USH	United States Highway
UST	underground storage tank
VOCs	volatile organic compounds
WDNR	Wisconsin Department of Natural Resources
WisDOT	Wisconsin Department of Transportation
WGNHS	Wisconsin Geological and Natural History Survey
WI ERP	Wisconsin Environmental Repair Program database

Executive Summary

The WisDOT is planning to reconstruct CTH D, between CTH Y and N. School Street in the Village of Oakfield, Fond du Lac County, Wisconsin (WisDOT ID #3876-05-00). The proposed highway reconstruction will require acquisition of additional ROW, including temporary limited easement and permanent limited easement at the sites of concern.

The WisDOT retained TRC to perform a Phase 2.5 Investigation at select locations along the CTH D corridor to identify locations where soil and/or groundwater contamination could be present.

Representatives from TRC and TRC's Geoprobe® subcontractor, On-Site Environmental Services (On-Site), were in Oakfield on September 10, 2019, to complete 7 soil borings.

The boring locations were selected based on TRC's review of previous environmental investigations, the current construction plans, and field observations. All borings were completed to a depth of 10-feet, which is the maximum depth anticipated for reconstruction of utilities.

The results of the Phase 2.5 investigation indicated that VOC-contaminated soil and groundwater may be encountered during construction at the following location:

- E. Church Street – Sta. 23+50 to Sta. 24+00 from reference line to project limits right.

Special Provisions should be included in the construction documents advising the contractor of these findings, and the requirements to manage chlorinated VOC-contaminated soil and groundwater.

This Phase 2.5 investigation report serves as the Excavation Management Plan for the project and should be reviewed by the WDNR.

TRC recommends the WisDOT complete no further investigation at these sites.

1.0 Background

1.1 Proposed Roadway and Utility Construction

The WisDOT is planning to reconstruct CTH D between CTH Y and N. School Street in the Village of Oakfield, Fond du Lac County, Wisconsin (WisDOT ID #3876-05-00). A site location map is presented in Figure 1. The total project length is 0.47 miles.

This project will involve reconstructing the existing roadway, replacing existing storm sewer, watermain and sanitary improvements, replacing and adding curb and gutter, improving intersections with curb ramps and cross-walks, widening sidewalks for pedestrians, including both parking and bike accommodations, pavement marking and permanent signing, and improving drainage flows. Significant excavation, greater than two feet in depth, will occur for road construction.

The preliminary construction plans are included in Appendix A. Although the proposed highway reconstruction will require additional ROW, only temporary limited easement is required at the sites of concern.

1.2 Previous Site Investigations

A Phase 1 HMA investigation was completed along the construction corridor by WisDOT and MSA Professional Services, Inc. (consultant) in December 2018. TRC reviewed the results of this investigation, previous site investigations, and the current WisDOT plans, and determined that two sites required additional assessment through a Phase 2.5 Investigation. Applicable background information is included in Appendix B, and the locations are shown on Figure 2. The sites include the following:

- 260 N. Main Street – Uttendorfer Estate Property / Sprayer Supply Inc., is a closed LUST and closed Environmental Repair Program (ERP) site. Identified environmental concerns include soil and groundwater petroleum contamination.
- 201 N. Main Street – D Mueller Industries / Oakfield Properties / Exfoliate Properties is an “open” ERP site with soil and groundwater chlorinated solvent, petroleum, and other chemical contamination. A groundwater contamination plume extends north from 201 N. Main Street to E. Church Street.

2.0 Phase 2/2.5 Investigation

2.1 Investigation

The WisDOT retained TRC to perform a Phase 2.5 Investigation within the CTH D corridor in Oakfield to identify and determine the nature and extent of soil and groundwater contamination within the construction limits adjacent to the two sites listed in Section 1.

Representatives from TRC and TRC’s Geoprobe® subcontractor, On-Site, were in Oakfield on September 10, 2019, to complete 7 soil borings. Photographs are included in Appendix C and soil boring and temporary well locations are shown on Figure 2.

The boring locations were selected based on TRC's review of previous environmental investigations, the current construction plans, and field observations. The borings were completed to a depth of 10-feet, which is the maximum depth anticipated for reconstruction of utilities, or as required to obtain groundwater samples. Groundwater was encountered and sampled at both sites.

On-Site abandoned each boring upon completion. Soil boring logs and abandonment forms are included in Appendix D. Soil cuttings and purge water generated during this investigation were containerized and will be disposed of under the WisDOT's hazardous waste disposal contract with Veolia Environmental Services (Appendix E).

2.2 Soil Screening, Soil Sampling, and Groundwater Sampling

Soil samples were collected continuously at each boring location for field description and field-screened for staining, odors, and for VOCs using a PID. The PID readings are summarized in Table 1, and are listed on the boring logs included in Appendix D. Native soil in the area of the investigation is predominately brown to grey clay, silty clay, silty sand, and sand.

Slightly elevated PID readings were detected in soil collected from borings GP-05, GP-06, and GP-07 at depths of 7.5 – 10 feet bgs. No other evidence of impacts was observed during field screening.

One soil sample was collected from each boring for laboratory analysis. Soil samples were collected from the depth interval(s) with the highest impacts based on field-screening results. If no impacts were observed in the field, then a soil sample was collected from an intermediate depth interval of the native material.

Temporary wells were installed in GP-04 and GP-06 and groundwater samples were collected for laboratory analysis of VOCs.

2.3 Soil and Groundwater Analytical Results

Soil and groundwater samples were submitted to Pace Analytical, Inc. (Pace) for laboratory analysis. Soil sample analyses included DRO, GRO, VOCs, PVOCs plus naphthalene, and lead. Groundwater samples were analyzed for VOCs. Soil sample and groundwater sample results are summarized in Tables 1 and 2, respectively. The laboratory report is included in Appendix F. Soil sample results were compared to WDNR NR 700 RCLs. Groundwater results were compared to NR 140 ESs and PALs.

The soil sampling results indicated the following:

- Low concentrations of GRO and DRO were detected in the sample from GP-04. The results were J-flagged by the laboratory and are estimated concentrations.
- One or more chlorinated solvents were detected in the samples from GP-05, GP-06, and GP-07 at concentrations exceeding the respective NR 720 Groundwater Pathway RCLs.

The groundwater sampling results indicated the following:

- Chlorinated solvents were detected in TW-06 at concentrations exceeding the respective NR 140 ESs and PAL.

3.0 Conclusions

3.1 Real Estate Acquisitions

The proposed highway reconstruction will require additional ROW, including temporary limited easement and permanent limited easement at the sites of concern.

No additional investigation is recommended for the proposed acquisition site.

3.2 Contaminated Soil and Groundwater Management

VOC-contaminated soil and groundwater may be encountered during construction at the following location:

- E. Church Street – Sta. 23+50 to Sta. 24+00 from reference line to project limits right.

Soil with elevated laboratory results, significant staining, or where applicable, elevated PID readings (for example, PID readings greater than 10 ppm), will be considered significantly contaminated and managed as contaminated soil for off-site disposal.

Soil exhibiting low-level contamination (no odors, staining, or PID readings equal to or less than 10 ppm) in these areas will be considered suitable for reuse as backfill in the excavation from which it came.

Excess low-level contaminated soil that cannot be reused as backfill in these areas, and low-level contaminated soil that is geotechnically unsuitable for reuse as backfill (to be determined by the WisDOT project engineer), will require landfill disposal.

It is estimated that 200 tons of contaminated soil will require direct landfill disposal at a WDNR licensed disposal facility. Fond du Lac County will be the generator of the contaminated material.

Dewatering at the above location, if necessary, will require special management of groundwater. Contaminated groundwater could be discharged to the sanitary sewer with prior approval from the Village of Oakfield. If contaminated groundwater cannot be discharged to the sanitary sewer, the groundwater will need to be containerized for off-site treatment and disposal.

3.3 Request for WDNR Reviews

TRC has prepared draft Special Provisions for the management of contaminated soil and groundwater during construction (Appendix G). TRC recommends that the WDNR review this report and the attached Special Provisions as the EMP. If acceptable, the WDNR should provide record of their concurrence with the Excavation Management Plan.

Table 1: Soil Sampling Results Summary
CTH D, Fond du Lac County
WisDOT ID# 3876-05-00

ANALYTES[1]	NR 720 SOIL RCLs[4]			SOIL BORING ID, SAMPLE DEPTH (feet bgs), DATE						
	SOIL TO GROUNDWATER PATHWAY[2]	DIRECT CONTACT PATHWAY		GP-01	GP-02	GP-03	GP-04	GP-05	GP-06	GP-07
		NON-INDUSTRIAL[3]	INDUSTRIAL[3]	7.5'-10'	7.5'-10'	7.5'-10'	7.5'-10'	7.5'-10'	7.5'-10'	7.5'-10'
				SAMPLES COLLECTED ON SEPTEMBER 10, 2019						
PID (ppm)	-	-	-	<1	<1	<1	<1	2.5	35.0	4.5
GRO (mg/kg)	-	-	-	-	-	-	5.6J	-	4.8J	-
DRO (mg/kg)	-	-	-	-	-	-	9.1J	-	1.6J	-
PVOCs (µg/kg)	-	-	-	ND	ND	ND	ND	ND	ND	ND
VOCs (µg/kg)										
1,1-Dichloroethane (1-1, DCA)	483.4	5,060	22,200	--	--	--	--	<25.0	227	<25.0
cis-1,2-Dichloroethene (1-2, DCE)	41.2	156,000	2,340,000	--	--	--	--	<25.0	*115*	<25.0
Trichloroethene (TCE)	3.6	1,300	8,410	--	--	--	--	*354*	<25.0	*165*
Vinyl Chloride	0.100	67.0	2,080	--	--	--	--	<25.0	*43.4J*	<25.0

Notes:

Created By: L. Hoerning 10/11/19
Checked By: L. Auner 10/16/19

1. Samples GP-01 through GP-04 were analyzed for PVOC and napthalene
2. GP-05 through GP-07 were anlyzed for VOCs
3. PID = Photoionization Detector
4. mg/kg = milligrams per kilogram (ppm)
5. µg/kg = micrograms per kilogram (ppb)
6. VOCs = Volatile Organic Compounds analyzed using EPA Method 8260B
7. Samples were collected by TRC and analyzed by Pace Analytical (WDNR Cert. #405132750)
8. - = Suggested standard has not been established for this analyte.
9. J = Result is an estimated concentration at or above the limit of detection and below the limit of quantitation.
10. RCLs = Residual Contaminant Levels.
11. -- = Sample was not analyzed for given analyte.
12. **Bold** = indicates that the analyte and/or sample exceeds the NR 720 RCL for direct contact (non-industrial or industrial).
13. *Italics* = indicates that the analyte exceeds the groundwater pathway RCL
14. ND = non detect

Footnotes:

(1) Only analytes detected in at least one sample are shown in the table.
(2) Value is the generic RCL for the groundwater pathway.
(3) Value is the generic RCL for exposure by direct contact.
(4) RCLs from the Wisconsin DNR's NR 720 RCL Spreadsheet (December 2018 update) found here: https://dnr.wi.gov/topic/Brownfields/soil.html.

Table 2: Groundwater Sampling Results Summary
CTH D Fond du Lac County
WisDOT ID# 3876-05-00

ANALYTES[1]	GROUNDWATER NR 140 STANDARDS[2]		SAMPLE ID, DATE		
			TW-04	TW-06	TRIP BLANK
	PAL	ES	9/10/19		
VOCs (µg/L)					
1,1-Dichloroethane	85	850	<0.27	51.8	<0.27
cis-1,2-Dichloroethene	7	70	<0.27	**733**	<0.27
Trichloroethene	0.5	5	<0.26	**6.8 J**	<0.26
Vinyl chloride	0.02	0.2	<0.17	**2,010**	<0.17

Created by: L. Hoerning 10/11/19

Checked By: L. Auner 10/16/19

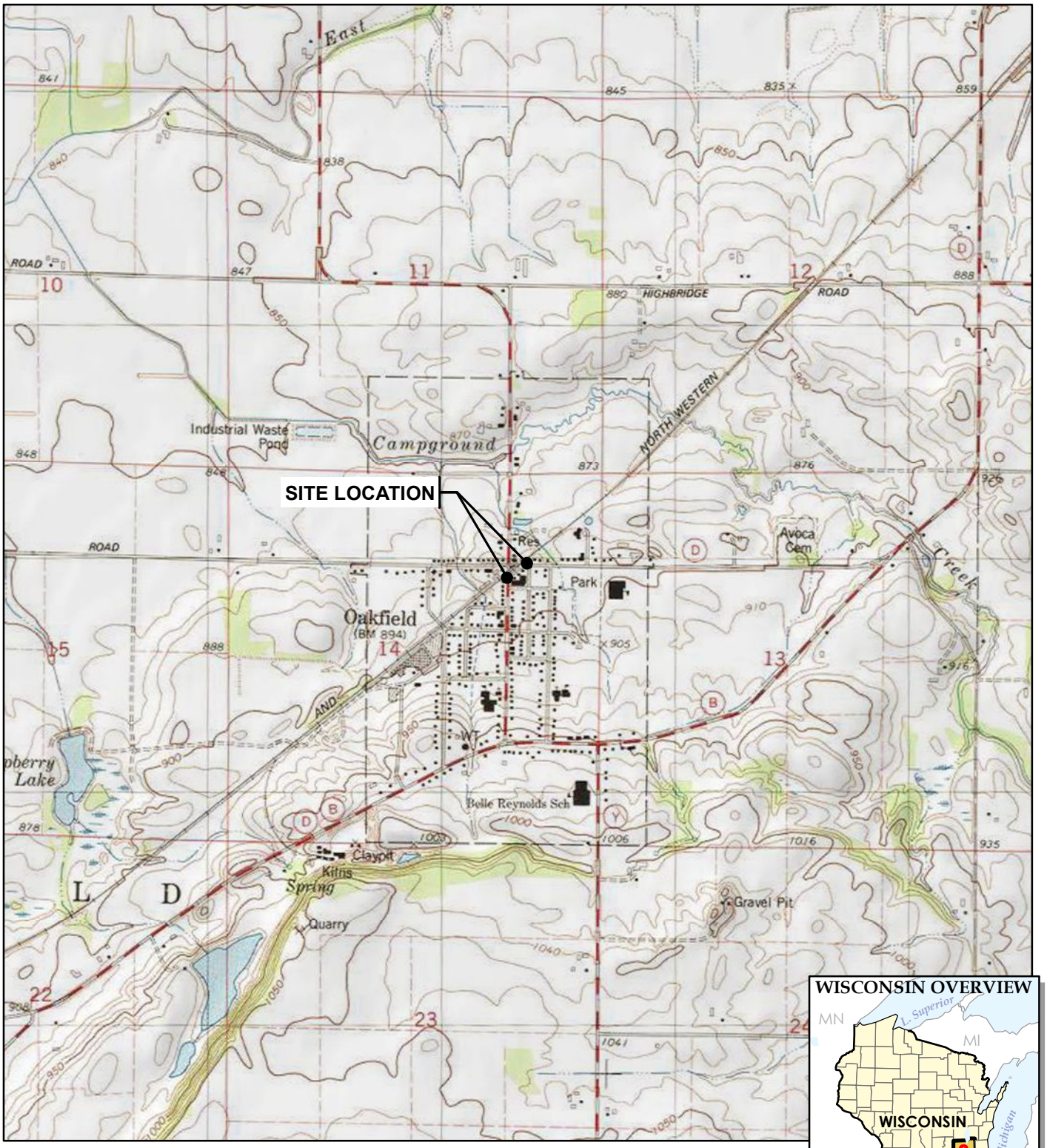
Notes:

1. All other VOC anayltes not listed in the above table were below the limit of detection for both Temp Wells and Trip Blank
4. µg/L = micrograms per liter (ppb)
5. VOCs = Volatile Organic Compounds analyzed using EPA Method 8260B
4. ft bgs = feet below ground surface
6. Samples were collected by TRC and analyzed by Pace Analytical (WDNR Cert. #405132750)
7. - = Suggested standard has not been established for this analyte.
9. -- = Sample was not analyzed for given analyte.
10. **Bold** = indicate a detection (or potential detection if J-flagged) above the NR 140 Enforcement Standard
11. *Italics* = indicates a detection (or potential detection if J-flagged) above the NR 140 Preventive Action Limit

Footnotes:

(1) Only analytes detected in at least one sample are shown in the table.

(2) WDNR Public Health Groundwater Quality Standards are found at https://docs.legis.wisconsin.gov/code/admin_code/nr/100/140.pdf.



BASE MAP FROM USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLE SERIES.

N

1 " = 2,000 '
1:24,000

0 2,000 4,000
FEET

TRC

708 Heartland Trail, Suite 3000
Madison, WI 53717
Phone: 608.826.3600
www.trcsolutions.com

TRC - GIS

PROJECT:

WISDOT ID# 3876-05-00
CTH D
OAKFIELD, FOND DU LAC COUNTY, WISCONSIN

TITLE:

SITE LOCATION MAP

DRAWN BY:	A. ADAIR
CHECKED BY:	T. PERKINS
APPROVED BY:	D. HAAK
DATE:	NOVEMBER 2019
PROJ. NO.:	347145
FILE:	347145_001_SLM.mxd

FIGURE 1

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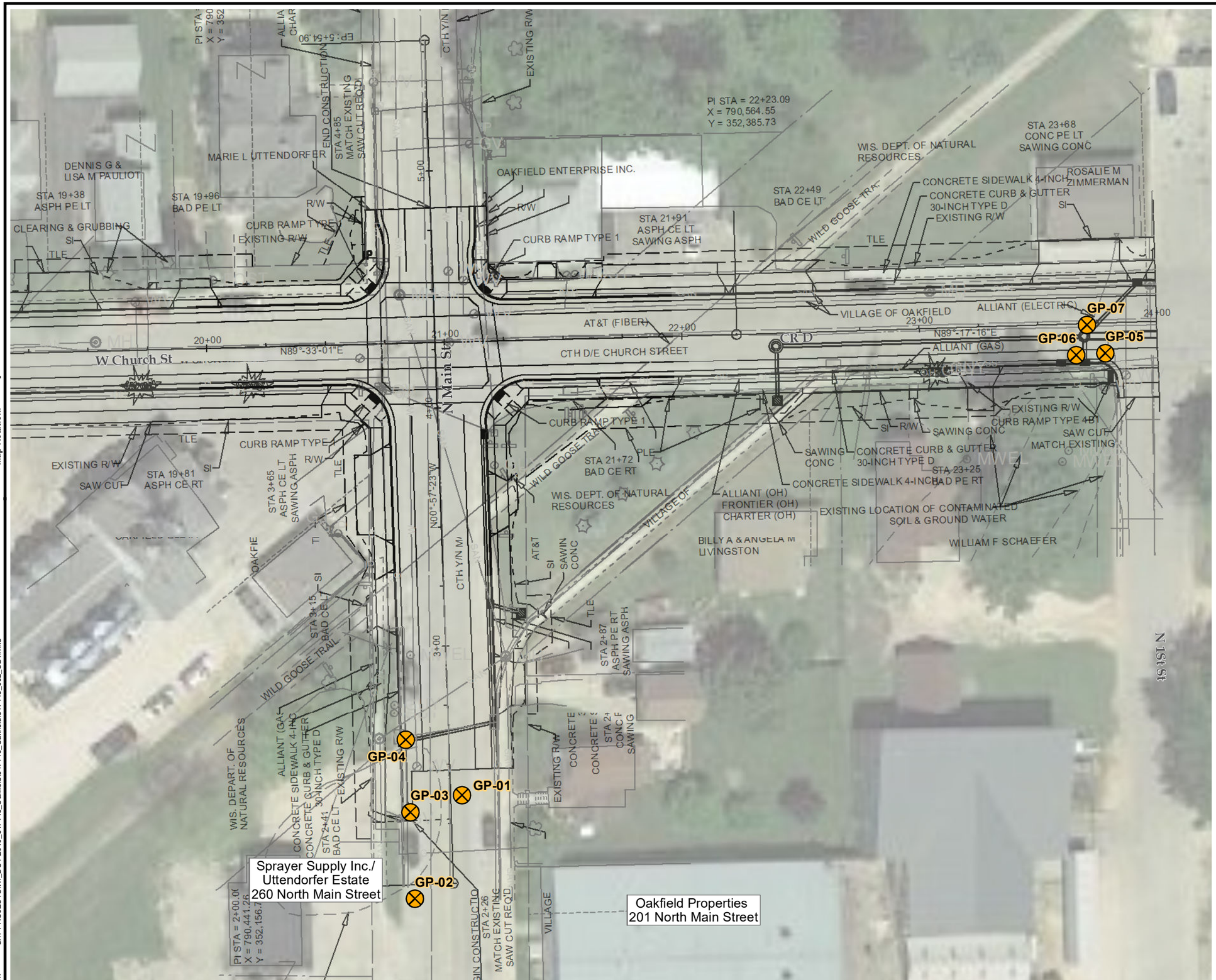

LEGEND

⊗ SOIL BORING

NOTES

1. BASE MAP IMAGERY FROM GOOGLE MAP PRO., (6/1/2015).
2. MAP PROJECTION AND GRID COORDINATES ARE NAD 83 STATE PLANE WISCONSIN SOUTH (US-SURVEY FEET).
3. CONSTRUCTION PLANS PROVIDED BY WISDOT, LOCATIONS ARE APPROXIMATE.

0 40 80 Feet

1 " = 40 '

1:480

PROJECT:

WISDOT ID# 3876-05-00
CTH D
OAKFIELD, FOND DU LAC COUNTY, WISCONSIN

TITLE:

SOIL BORING LOCATION MAP

DRAWN BY:	A. ADAIR	PROJ. NO.:	347145
CHECKED BY:	T. PERKINS		
APPROVED BY:	D. HAAK		**FIGURE 2**
DATE:	NOVEMBER 2019		

TRC

708 Heartland Trail, Suite 3000
Madison, WI 53717
Phone: 608.826.3600
www.trcsolutions.com

FILE NO.: 347145_002_SB1.mxd

Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet (Foot US)
Map Rotation: 0

Plot Date: 11/14/2019, 09:32:07 AM by AADAIR -- LAYOUT: ANSI B (11"x17")
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TRC - GIS

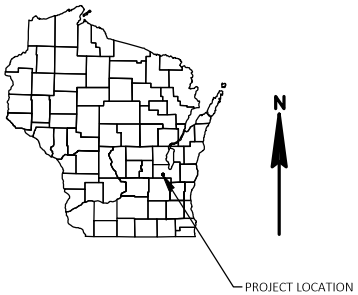
Appendix A: Construction Plans

PROJECT ID: 3876-05-71
WITH: N/A

COUNTY: FOND DU LAC

ORDER OF SHEETS

TOTAL SHEETS =



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A.A.D.T.	2041	=	1700
D.H.V.		=	226
D.D.		=	60140
T.		=	7.4%
DESIGN SPEED		=	30 MPH
ESALS		=	210,000

CONVENTIONAL SYMBOLS

PLAN		PROFILE	
CORPORATE LIMITS		GRADE LINE	
PROPERTY LINE		ORIGINAL GROUND	
LOT LINE		MARSH OR ROCK PROFILE (To be noted as such)	ROCK
LIMITED HIGHWAY EASEMENT		SPECIAL DITCH	LABEL
EXISTING RIGHT OF WAY		GRADE ELEVATION	95.36
PROPOSED OR NEW R/W LINE			
SLOPE INTERCEPT		CULVERT (Profile View)	
REFERENCE LINE	S00°00'00"E	UTILITIES	
EXISTING CULVERT		ELECTRIC	E
PROPOSED CULVERT (Box or Pipe)		FIBER OPTIC	FO
		GAS	G
COMBUSTIBLE FLUIDS	CAUTION	SANITARY SEWER	SAN
		STORM SEWER	SS
MARSH AREA		TELEPHONE	T
		WATER	W
		UTILITY PEDESTAL	
WOODED OR SHRUB AREA		POWER POLE	
		TELEPHONE POLE	

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

V OAKFIELD

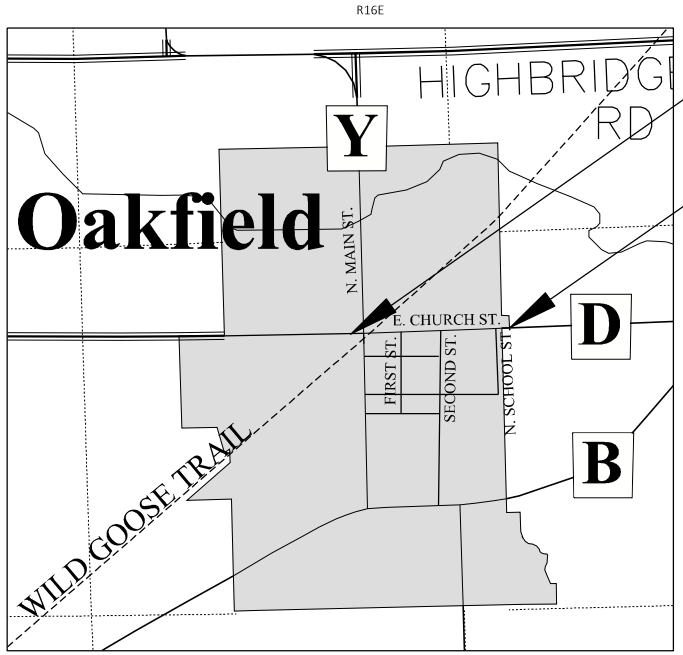
CTH Y - N. SCHOOL STREET

CTH D

FOND DU LAC COUNTY

STATE PROJECT NUMBER
3876-05-71

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
3876-05-71		



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Y = 790,246.47

END PROJECT
STA 43+75
X = 352,417.58
Y = 792,717.00

LAYOUT
SCALE 0 0.33 MI

TOTAL NET LENGTH OF CENTERLINE = 0.468

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, FOND DU LAC COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ACCEPTED FOR
FOND DU LAC COUNTY

(SIGNATURE)

DATE: _____ _____
TITLE OF OFFICIAL

ORIGINAL PLANS PREPARED BY

MSA
ENGINEERING | ARCHITECTURE | SURVEYING
FUNDING | PLANNING | ENVIRONMENTAL
1230 SOUTH BOULEVARD, BARABOO, WI 53913
(608) 356-2771 www.msa-ps.com

60% PLAN SUBMITTAL 5-13-19

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

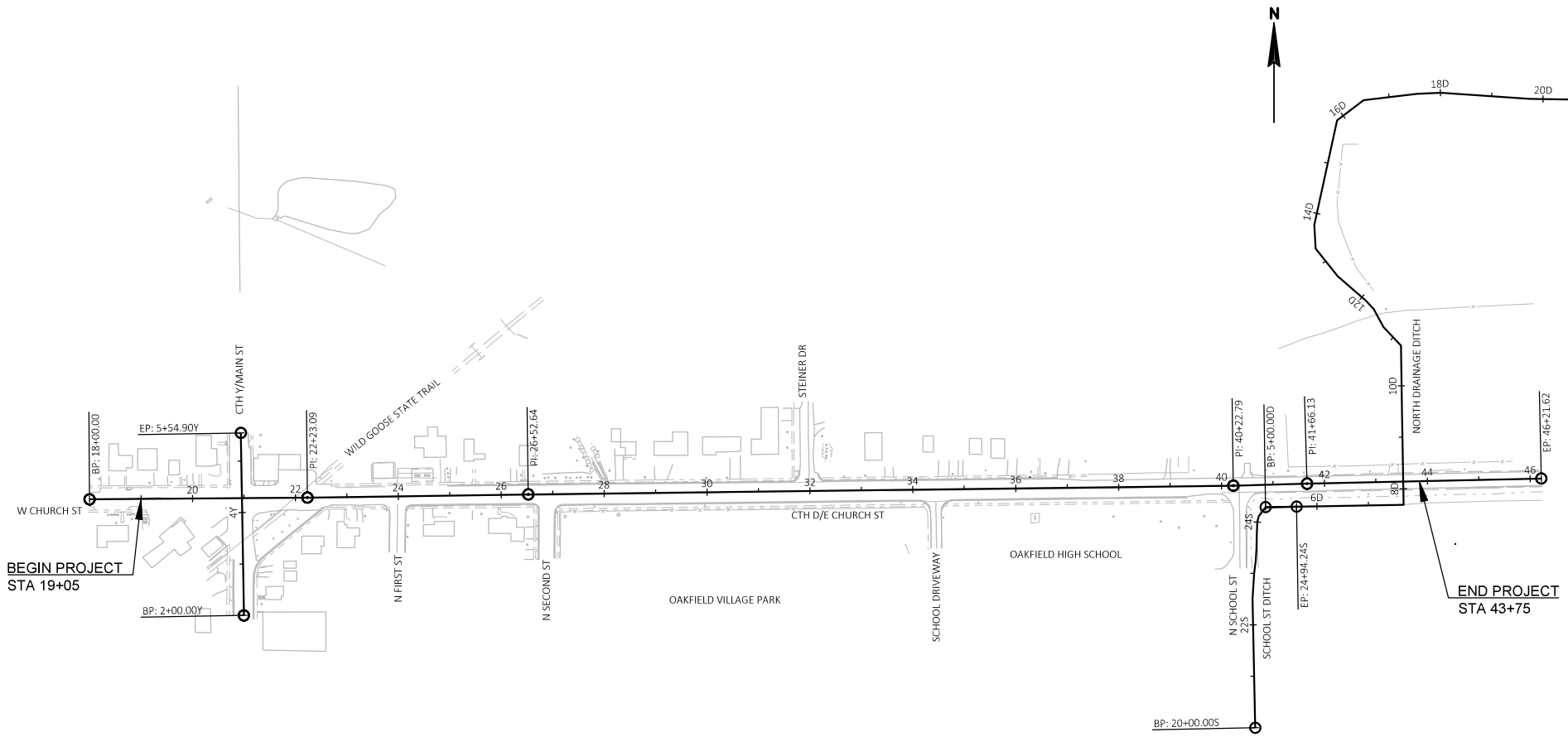
PREPARED BY

Surveyor	MSA PROFESSIONAL SERVICES, INC
Designer	MSA PROFESSIONAL SERVICES, INC
Project Manager	PROJECT MANAGER
Regional Examiner	REGIONAL EXAMINER
Regional Supervisor	REGIONAL SUPERVISOR

APPROVED FOR THE DEPARTMENT

DATE: _____ _____
(Signature)

E



PROJECT NO: 3876-05-71	HWY: CTH D	COUNTY: FOND DU LAC	PROJECT OVERVIEW	SHEET	E

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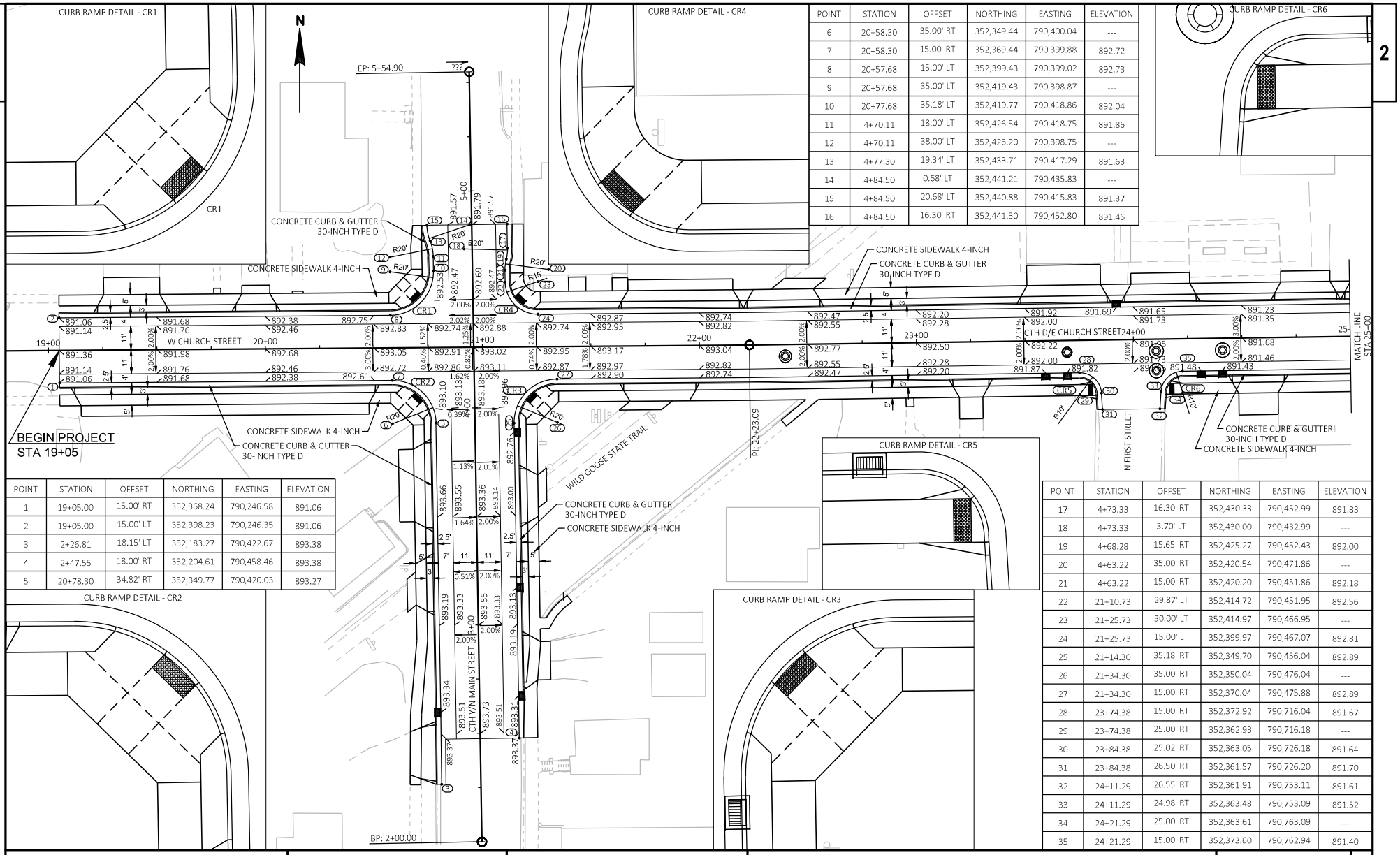
PLOT BY : BRAD LEE
PLOT NAME :
PLOT SCALE : 1 IN:200 FT
WISDOT/CADDS SHEET 42



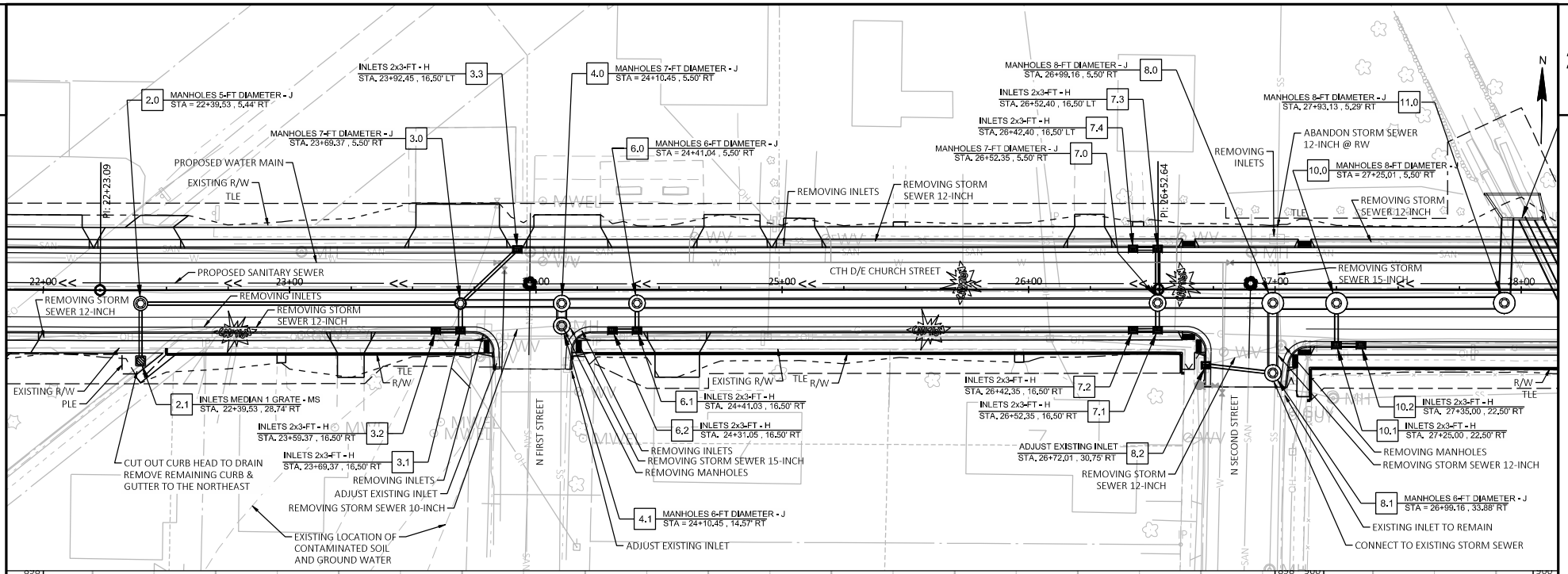
POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION
6	20+58.30	35.00' RT	352,349.44	790,400.04	---
7	20+58.30	15.00' RT	352,369.44	790,399.88	892.72
8	20+57.68	15.00' LT	352,399.43	790,399.02	892.73
9	20+57.68	35.00' LT	352,419.43	790,398.87	---
10	20+77.68	35.18' LT	352,419.77	790,418.86	892.04
11	4+70.11	18.00' LT	352,426.54	790,418.75	891.86
12	4+70.11	38.00' LT	352,426.20	790,398.75	---
13	4+77.30	19.34' LT	352,433.71	790,417.29	891.63
14	4+84.50	0.68' LT	352,441.21	790,435.83	---
15	4+84.50	20.68' LT	352,440.88	790,415.83	891.37
16	4+84.50	16.30' RT	352,441.50	790,452.80	891.46

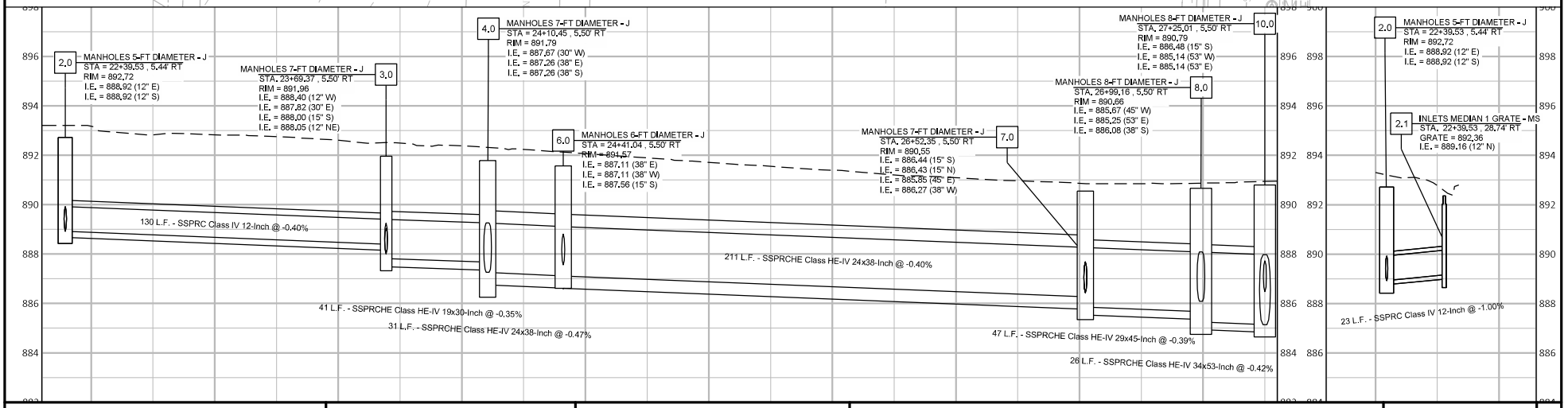
POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION
1	19+05.00	15.00' RT	352,368.24	790,246.58	891.06
2	19+05.00	15.00' LT	352,398.23	790,246.35	891.06
3	2+26.81	18.15' LT	352,183.27	790,422.67	893.38
4	2+47.55	18.00' RT	352,204.61	790,458.46	893.38
5	20+78.30	34.82' RT	352,349.77	790,420.03	893.27

POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION
17	4+73.33	16.30' RT	352,430.33	790,452.99	891.83
18	4+73.33	3.70' LT	352,430.00	790,432.99	---
19	4+68.28	15.65' RT	352,425.27	790,452.43	892.00
20	4+63.22	35.00' RT	352,420.54	790,471.86	---
21	4+63.22	15.00' RT	352,420.20	790,451.86	892.18
22	21+10.73	29.87' LT	352,414.72	790,451.95	892.56
23	21+25.73	30.00' LT	352,414.97	790,466.95	---
24	21+25.73	15.00' LT	352,399.97	790,467.07	892.81
25	21+14.30	35.18' RT	352,349.70	790,456.04	892.89
26	21+34.30	35.00' RT	352,350.04	790,476.04	---
27	21+34.30	15.00' RT	352,370.04	790,475.88	892.89
28	23+74.38	15.00' RT	352,372.92	790,716.04	891.67
29	23+74.38	25.00' RT	352,362.93	790,716.18	---
30	23+84.38	25.02' RT	352,363.05	790,726.18	891.64
31	23+84.38	26.50' RT	352,361.57	790,726.20	891.70
32	24+11.29	26.55' RT	352,361.91	790,753.11	891.61
33	24+11.29	24.98' RT	352,363.48	790,753.09	891.52
34	24+21.29	25.00' RT	352,363.61	790,763.09	---
35	24+21.29	15.00' RT	352,373.60	790,762.94	891.40

PROJECT NO: 3876-05-71	HWY: CTH D	COUNTY: FOND DU LAC	PLAN DETAILS	SHEET	E

FILE NAME : P:\80005\80305\8038\08038013\CADD\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021201-pd
PLOT DATE : 5/10/2019 12:31 PM
PLOT BY : BRAD LEE
PLOT NAME :
PLOT SCALE : 1 IN:40 FT





PROJECT NO: 3876-05-71	HWY: CTH D	COUNTY: FOND DU LAC	STORM SEWER	SHEET	E

FILE NAME : P:\80005\80305\8038\08038013\CADD\SHEETSPLAN\STORM SEWER\020102_SS PARKING ONE SIDE.DWG
LAYOUT NAME - 022501-ss
PLOT DATE : 5/10/2019 1:01 PM
PLOT BY : BRAD LEE
PLOT NAME :
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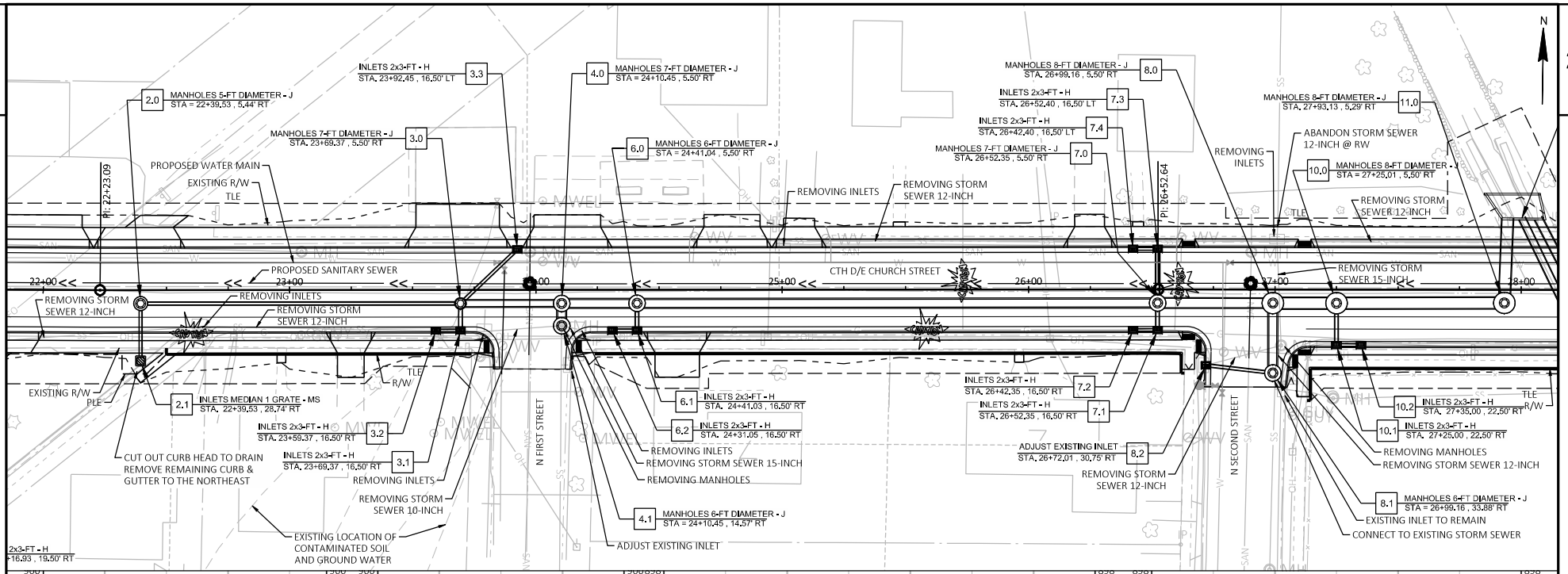

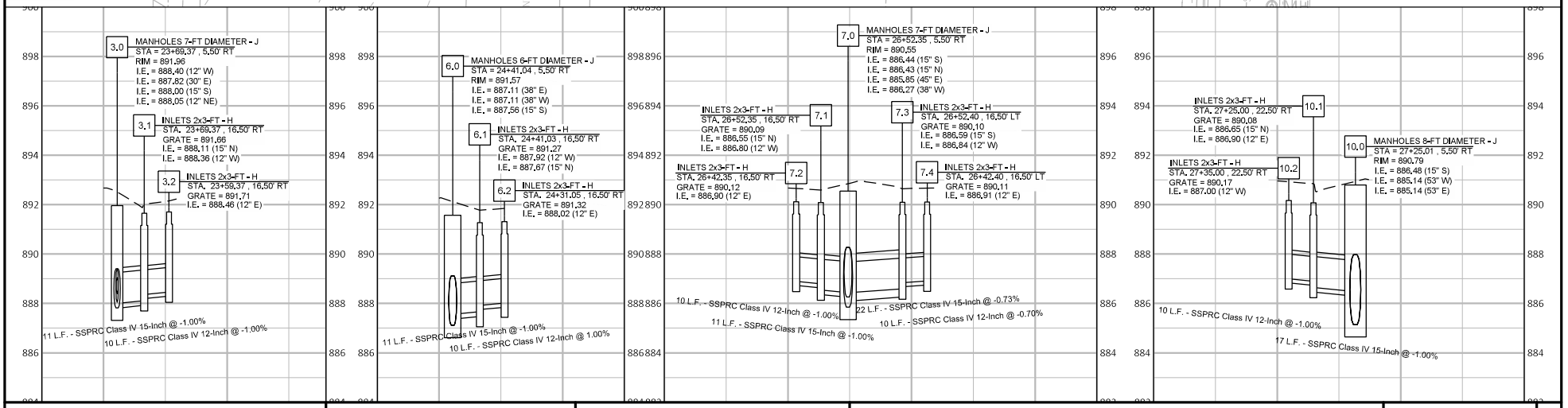

PROJECT NO: 3876-05-71	HWY: CTH D	COUNTY: FOND DU LAC	STORM SEWER	SHEET	E

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PLOT NAME :
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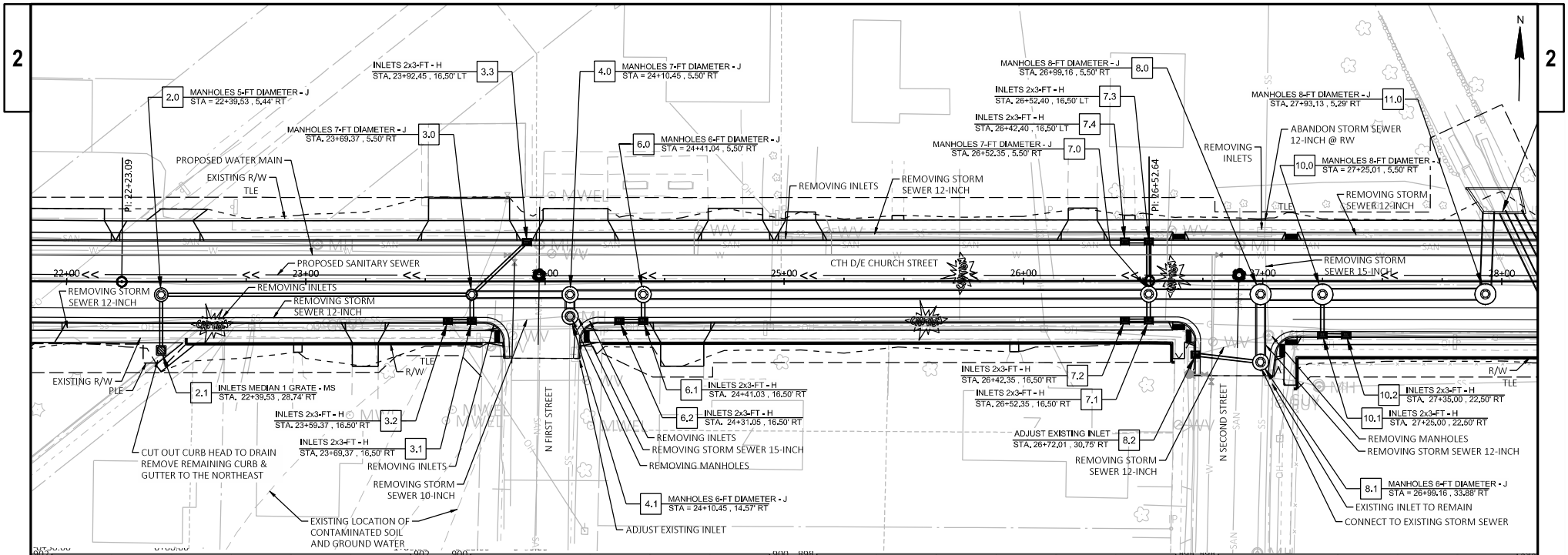

PROJECT NO: 3876-05-71	HWY: CTH D	COUNTY: FOND DU LAC	STORM SEWER	SHEET E

FILE NAME : P:\8000S\8030S\8038\08038013\CADD\SHEETSPLAN\STORM SEWER\020102_SS PARKING ONE SIDE.DWG
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PLOT DATE : 5/10/2019 1:01 PM
PLOT BY : BRAD LEE
PLOT NAME :
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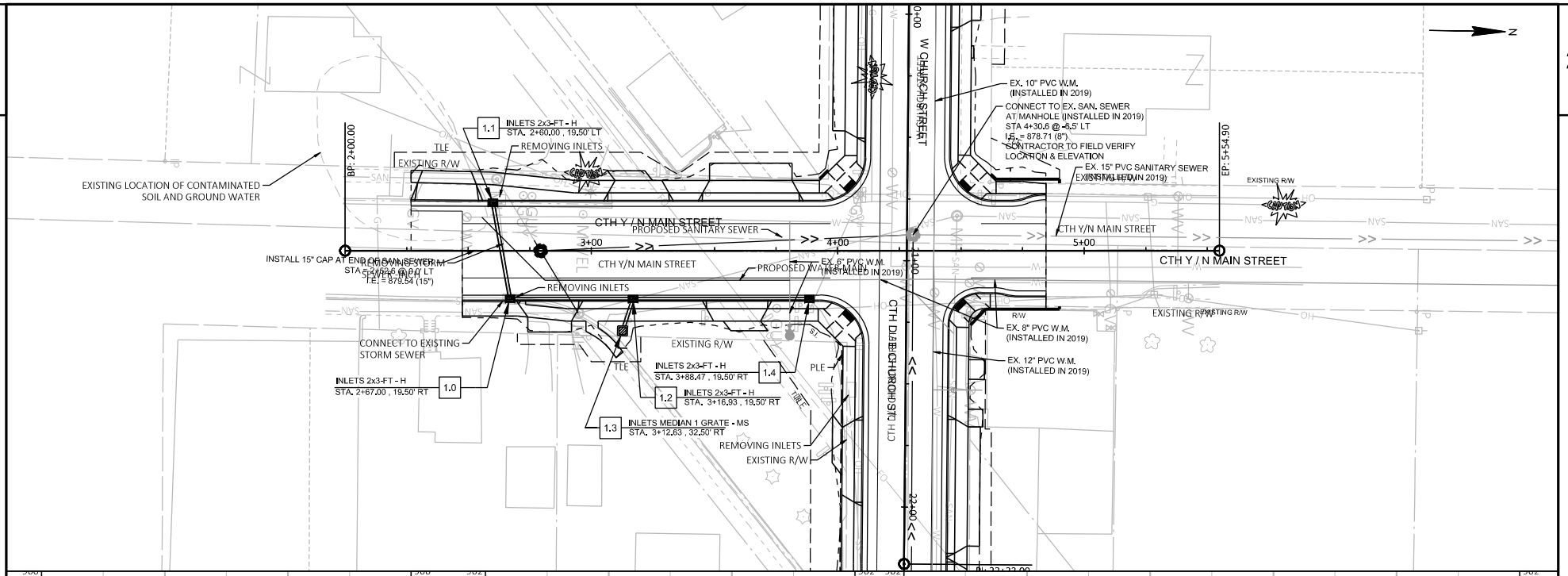

PROJECT NO: 3876-05-71	HWY: CTH D	COUNTY: FOND DU LAC	STORM SEWER	SHEET	E

FILE NAME : P:\80005\80305\8038\08038013\CADD\SHEETSPLAN\STORM SEWER\020102_SS PARKING ONE SIDE.DWG
LAYOUT NAME - 022511-ss
PLOT DATE : 5/10/2019 1:02 PM
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PLOT NAME :
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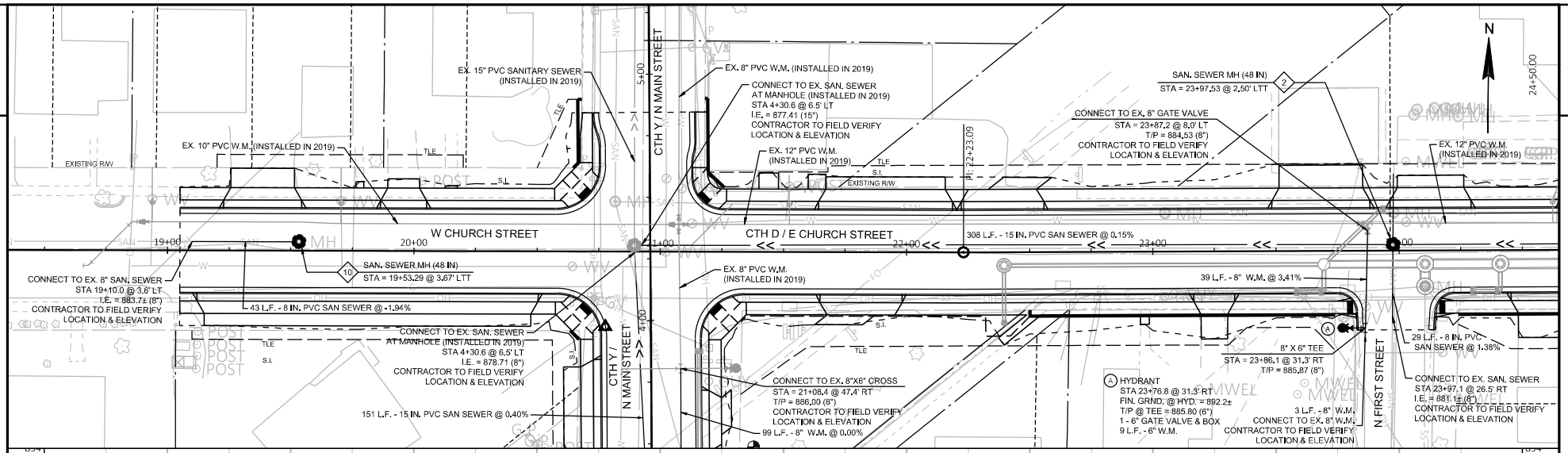

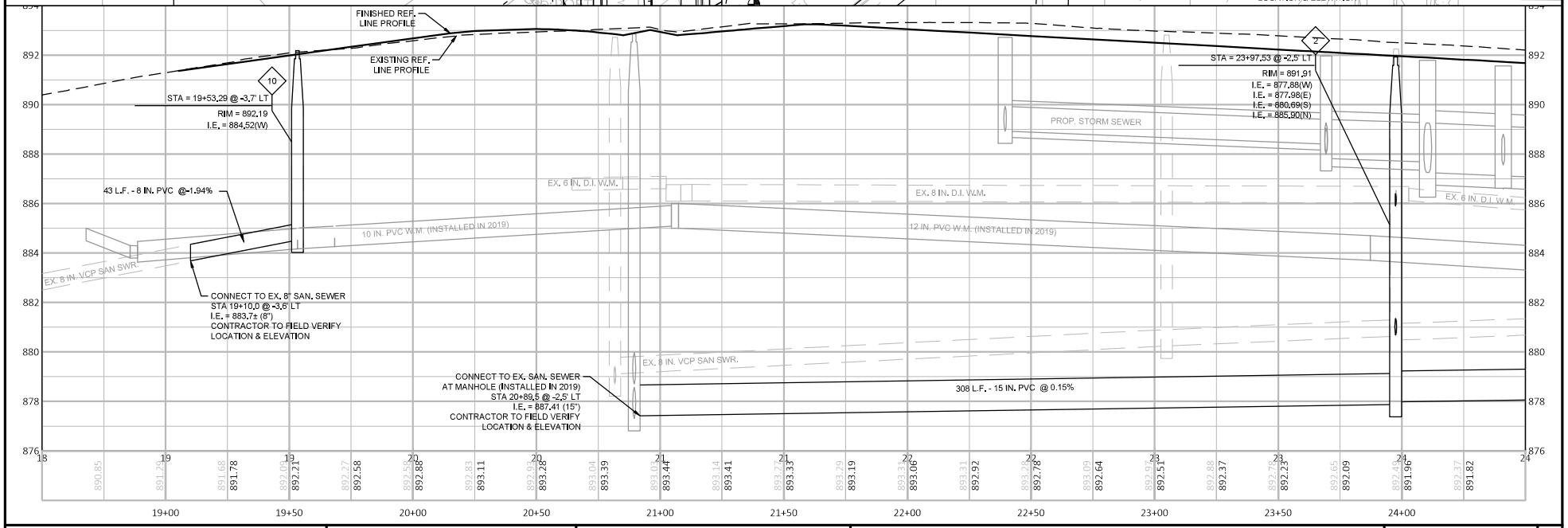

PROJECT NO: 3876-05-71	HWY: CTH D	COUNTY: FOND DU LAC	PLAN AND PROFILE: VFG - CTY-D PARKING ONE SIDE - SAN&WATR	SHEET	E

FILE NAME : P:\80005\80305\8038\08038013\CADD\SHEETSPLAN\SANITARY & WATER\020101_SAN&WAT PARKING ONE SIDE.DWG
LAYOUT NAME - 1
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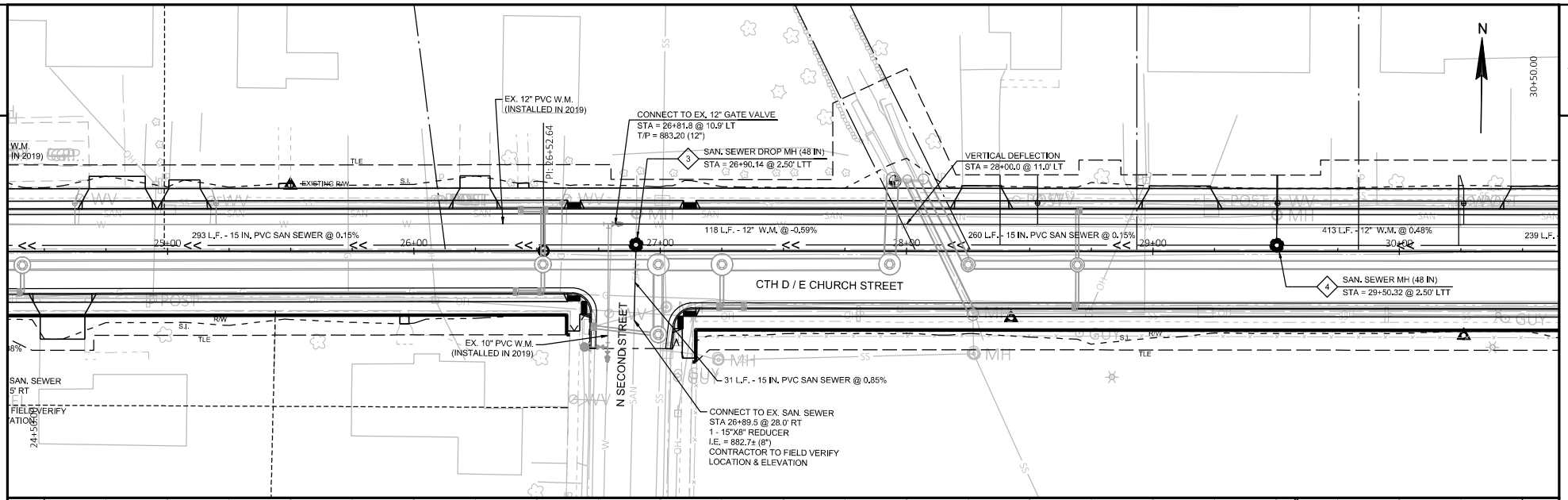
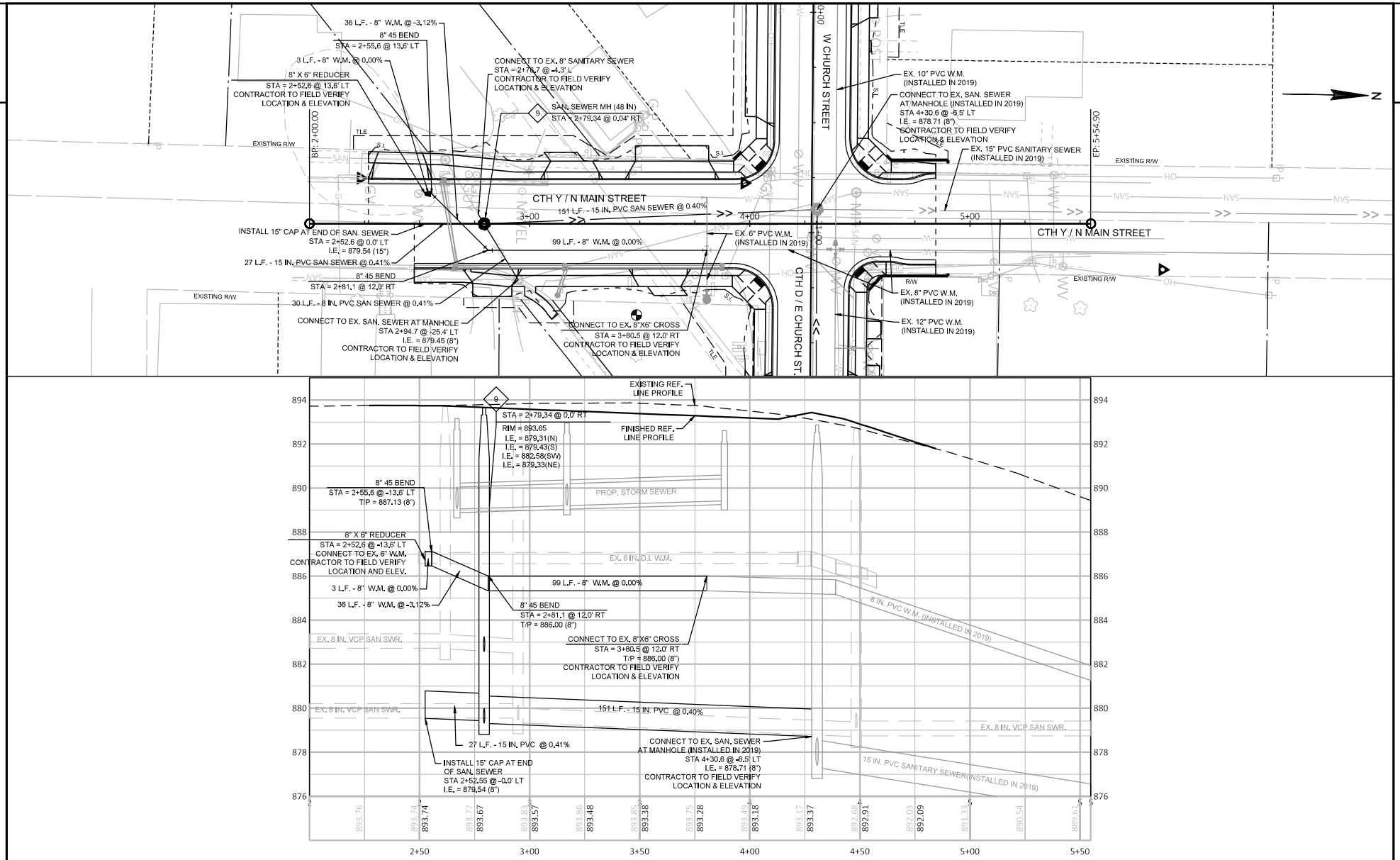
PLOT BY : NATE REGO
PLOT NAME :
PLOT SCALE : 1 IN:40 FT



PROJECT NO: 3876-05-71	HWY: CTH D	COUNTY: FOND DU LAC	PLAN AND PROFILE: VFG - CTY-D PARKING ONE SIDE - SAN&WATR	SHEET	E

FILE NAME : P:\80005\80305\8038\08038013\CADD\SHEETSPLAN\SANITARY & WATER\020101_SAN&WAT PARKING ONE SIDE.DWG
LAYOUT NAME - 2
PLOT DATE : 5/9/2019 5:02 PM
PLOT BY : NATE REGO
PLOT NAME :
PLOT SCALE : 1 IN:40 FT



PROJECT NO: 3876-05-71	HWY: CTH D	COUNTY: FOND DU LAC	PLAN AND PROFILE: VFG - CTY-D PARKING ONE SIDE - SAN&WATR	SHEET	E

FILE NAME : P:\80005\80305\8038\08038013\CADD\SHEETSPLAN\SANITARY & WATER\020101_SAN&WAT PARKING ONE SIDE.DWG
LAYOUT NAME - 5
PLOT DATE : 5/9/2019 5:03 PM
PLOT BY : NATE REGO
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

Appendix B: Background Information

SITE SUMMARY TABLE

SITE NAME/ADDRESS	Acquisition and/or Excavation	Contaminants Of Concern	Referenced Records	Additional Investigation/ Contract Provisions
127 E Church Street GB Mini Mart LLC (Erdmanns Oakfield Oil Co) Type of Site: Closed LUST	9 ft TLE Excavation: Road (up to 3 ft) Sanitary sewer (13 ft in center of road). Water (8 ft on north side of road)	Petroleum, Lead	UST LUST BRRTS	No additional investigation is recommended due to petroleum contamination on the property. A Standard Special Provision notifying the contractor of contamination beyond the construction limits is recommended.
260 N Main Street Sprayer Supply Inc./Uttendorfer Estate Type of Site: Closed LUST	8.7 ft TLE Excavation: Road (3 ft) San. Sewer (15 ft) Water (8.5 ft) Storm Sew.(5 ft)	Petroleum, Lead	UST LUST BRRTS	Phase 2.5 Investigation is recommended due to the unknown status of contamination extending into the N Main Street ROW adjacent to this property. The proposed design will excavate adjacent to this parcel.
Plume from 201 N Main Street Oakfield Properties **Approx. Sta 22+75 to 25+00 on both sides of E Church Street** Type of Site: Open ERP	16.1 ft TLE 2.4 ft ROW Excavation: Road (3 ft) San. Sewer (15 ft) Water (9 ft) Storm Sewer(6 ft)	Chlorinated Solvents	BRRTS ERP UST	A Phase 2.5 Investigation is recommended in the E Church Street construction area between approx. Sta 22+75 to 25+00. This is due to the unknown status of potential groundwater contamination extending into E Church Street from the 201 N Main Street parcel.


Find Location
I want to...
OAKFIELD VIL GARAGE
North Main Street
Wild Goose State Trail
Steiner Drive
ERDMANNS OAKFIELD OIL CO
County Road D
East Church Street
West Church Street
Oakfield
Town of Oakfield
North 1st Street
UTTENDORFER ESTATE PROPERTY
SPRAYER SUPPLY INC/UTTENDATER ESTATE - OAKFI
North 2nd Street
Hubbard Street
North School Street
Basemaps
US Geological Survey's 1:24,000-scale topographic map; USGS Geographic Names Information System (GNIS) | Product...

GIS Registry Disclaimer

This case was closed by the DNR prior to August 1, 2002, when DNR began adding approved cleanups with residual soil contamination into the GIS Registry. Certain documents that are currently required by ch. NR 726, Wis. Adm. Code may therefore not be included in this packet as they were unavailable at the time the original case was closed.

The information contained in this document was assembled by DNR from a previously closed case file, and added to the GIS Registry to provide the public with information on closed sites with residual soil and/or groundwater contamination remaining above applicable state standards.

GIS REGISTRY
Cover Sheet

July, 2008
(RR 5367)

Source Property Information

CLOSURE DATE: May 10, 1999

BRRTS #: **03-20-109903**

FID #:

ACTIVITY NAME: Erdmanns Oakfield Oil Co

DATCP #:

PROPERTY ADDRESS: 127 E Church St

COMM #: 53065950227

MUNICIPALITY: Oakfield

PARCEL ID #: V06-14-16-14-01-011-00

***WTM COORDINATES:**

X: **637173** Y: **358072**

** Coordinates are in WTM83, NAD83 (1991)*

WTM COORDINATES REPRESENT:

- ○ Approximate Center Of Contaminant Source
- ◉ Approximate Source Parcel Center

Please check as appropriate: (BRRTS Action Code)

Contaminated Media:

- ☐ Groundwater Contamination > ES *(236)*
  - ☐ Contamination in ROW
  - ☐ Off-Source Contamination

  (***note:*** *for list of off-source properties see "Impacted Off-Source Property")*
- ☒ Soil Contamination > *RCL or **SSRCL *(232)*
  - ☐ Contamination in ROW
  - ☐ Off-Source Contamination

  (***note:*** *for list of off-source properties see "Impacted Off-Source Property")*

Land Use Controls:

- ☐ Soil: maintain industrial zoning *(220)*

  (***note:*** *soil contamination concentrations between residential and industrial levels)*
- ☐ Structural Impediment *(224)*
- ☐ Site Specific Condition *(228)*
- ☐ Cover or Barrier *(222)*

  (***note:*** *maintenance plan for groundwater or direct contact)*
- ☐ Vapor Mitigation *(226)*
- ☐ Maintain Liability Exemption *(230)*

  (***note:*** *local government or economic development corporation)*

Monitoring wells properly abandoned? *(234)*

○ Yes ◉ No ○ N/A

** Residual Contaminant Level*
***Site Specific Residual Contaminant Level*

GIS Registry Checklist

This Adobe Fillable form is intended to provide a list of information that is required for evaluation for case closure. It is to be used in conjunction with Form 4400-202, Case Closure Request. The closure of a case means that the Department has determined that no further response is required at that time based on the information that has been submitted to the Department.

NOTICE: Completion of this form is mandatory for applications for case closure pursuant to ch. 292, Wis. Stats. and ch. NR 726, Wis. Adm. Code, including cases closed under ch. NR 746 and ch. NR 726. The Department will not consider, or act upon your application, unless all applicable sections are completed on this form and the closure fee and any other applicable fees, required under ch. NR 749, Wis. Adm. Code, Table 1 are included. It is not the Department's intention to use any personally identifiable information from this form for any purpose other than reviewing closure requests and determining the need for additional response action. The Department may provide this information to requesters as required by Wisconsin's Open Records law [ss. 19.31 - 19.39, Wis. Stats.].

BRRTS #: 03-20-109903 PARCEL ID #: V06-14-16-14-01-011-00

ACTIVITY NAME: Erdmanns Oakfield Oil Co WTM COORDINATES: X: 637173 Y: 358072

CLOSURE DOCUMENTS (the Department adds these items to the final GIS packet for posting on the Registry)

☒ **Closure Letter** Deed Restriction only - no final closure letter

☐ **Maintenance Plan** (*if activity is closed with a land use limitation or condition (land use control) under s. 292.12, Wis. Stats.*)

☒ **Conditional Closure Letter**

☐ **Certificate of Completion (COC)** for VPLE sites

SOURCE LEGAL DOCUMENTS

☒ **Deed:** The most recent deed as well as legal descriptions, for the **Source Property** (where the contamination originated). Deeds for other, off-source (off-site) properties are located in the **Notification** section.
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.* (lots on subdivided or platted property (e.g. lot 2 of xyz subdivision)).

Figure #: **Title:**

☐ **Signed Statement:** A statement signed by the Responsible Party (RP), which states that he or she believes that the attached legal description accurately describes the correct contaminated property.

MAPS (meeting the visual aid requirements of s. NR 716.15(2)(h))

Maps must be no larger than 8.5 x 14 inches unless the map is submitted electronically.

☒ **Location Map:** A map outlining all properties within the contaminated site boundaries on a U.S.G.S. topographic map or plat map in sufficient detail to permit easy location of all parcels. If groundwater standards are exceeded, include the location of all potable wells within 1200 feet of the site.
Note: *Due to security reasons municipal wells are not identified on GIS Packet maps. However, the locations of these municipal wells must be identified on Case Closure Request maps.*

Figure #: 1 **Title: Site Location Map**

☒ **Detailed Site Map:** A map that shows all relevant features (buildings, roads, individual property boundaries, 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 exceeding a ch. NR 140 Enforcement Standard (ES), and/or in relation to the boundaries of soil contamination exceeding a Residual Contaminant Level (RCL) or a Site Specific Residual Contaminant Levels (SSRCL) as determined under s. NR 720.09, 720.11 and 720.19.

Figure #: 3 **Title: Excavation Soil Sample Location Map**

☒ **Soil Contamination Contour Map:** For sites closing with residual soil contamination, this map is to show the location of all contaminated soil and a single contour showing the horizontal extent of each area of contiguous residual soil contamination that exceeds a Residual Contaminant Level (RCL) or a Site Specific Residual Contaminant Level (SSRCL)as determined under s. NR 720.09, 720.11 and 720.19.

Figure #: 5 **Title: Estimated Extent of Soil Contamination**

BRRTS #: 03-20-109903 ACTIVITY NAME: Erdmanns Oakfield Oil Co

MAPS (continued)

☒ **Geologic Cross-Section Map:** A map showing the source location and vertical extent of residual soil contamination exceeding a Residual Contaminant Level (RCL) or a Site Specific Residual Contaminant Level (SSRCL). If groundwater contamination exceeds a ch. NR 140 Enforcement Standard (ES) when closure is requested, show the source location and vertical extent, water table and piezometric elevations, and locations and elevations of geologic units, bedrock and confining units, if any.

Figure #: 3 **Title: Geologic Cross-Section**

Figure #: **Title:**

☐ **Groundwater Isoconcentration Map:** For sites closing with residual groundwater contamination, this map shows the horizontal extent of all groundwater contamination exceeding a ch. NR140 Preventive Action Limit (PAL) and an Enforcement Standard (ES). Indicate the direction and date of groundwater flow, based on the most recent sampling data.
Note: *This is intended to show the total area of contaminated groundwater.*

Figure #: **Title:**

☒ **Groundwater Flow Direction Map:** A map that represents groundwater movement at the site. If the flow direction varies by more then 20° over the history of the site, submit 2 groundwater flow maps showing the maximum variation in flow direction.

Figure #: 4 **Title: Groundwater Contour Map**

Figure #: **Title:**

TABLES (meeting the requirements of s. NR 716.15(2)(h)(3))

Tables must be no larger than 8.5 x 14 inches unless the table is submitted electronically. Tables must not contain shading and/or cross-hatching. The use of **BOLD** or *ITALICS* is acceptable.

☒ **Soil Analytical Table:** A table showing remaining soil contamination with analytical results and collection dates.
Note: This is one table of results for the contaminants of concern. Contaminants of concern are those that were found during the site investigation, that remain after remediation. It may be necessary to create a new table to meet this requirement.

Table #: Various **Title: Various - 2 pages total**

☐ **Groundwater Analytical Table:** Table(s) that show the most recent analytical results and collection dates, for all monitoring wells and any potable wells for which samples have been collected.

Table #: **Title:**

☒ **Water Level Elevations:** Table(s) that show the previous four (at minimum) water level elevation measurements/dates from all monitoring wells. If present, free product is to be noted on the table.

Table #: 4 **Title: Groundwater Measurements**

IMPROPERLY ABANDONED MONITORING WELLS

For each monitoring well not properly abandoned according to requirements of s. NR 141.25 include the following documents.
Note: *If the site is being listed on the GIS Registry for only an improperly abandoned monitoring well you will only need to submit the documents in this section for the GIS Registry Packet.*

☐ **Not Applicable**

☒ **Site Location Map:** A map showing all surveyed monitoring wells with specific identification of the monitoring wells which have not been properly abandoned.
Note: *If the applicable monitoring wells are distinctly identified on the Detailed Site Map this Site Location Map is not needed.*

Figure #: 5 **Title: Estimated Extent of Contamination**

☐ **Well Construction Report:** Form 4440-113A for the applicable monitoring wells.

☐ **Deed:** The most recent deed as well as legal descriptions for each property where a monitoring well was not properly abandoned.

☒ **Notification Letter:** Copy of the notification letter to the affected property owner(s).
Refer to Conditional Closure Letter

BRRTS #: 03-20-109903 ACTIVITY NAME: Erdmanns Oakfield Oil Co

NOTIFICATIONS

Source Property

- ☐ **Letter To Current Source Property Owner:** If the source property is owned by someone other than the person who is applying for case closure, include a copy of the letter notifying the current owner of the source property that case closure has been requested.
- ☐ **Return Receipt/Signature Confirmation:** Written proof of date on which confirmation was received for notifying current source property owner.

Off-Source Property

Group the following information per individual property and label each group according to alphabetic listing on the "Impacted Off-Source Property" attachment.

- ☐ **Letter To "Off-Source" Property Owners:** Copies of all letters sent by the Responsible Party (RP) to owners of properties with groundwater exceeding an Enforcement Standard (ES), and to owners of properties that will be affected by a land use control under s. 292.12, Wis. Stats.
  Note: *Letters sent to off-source properties regarding residual contamination must contain standard provisions in Appendix A of ch. NR 726.*

  Number of "Off-Source" Letters:
- ☐ **Return Receipt/Signature Confirmation:** Written proof of date on which confirmation was received for notifying any off-source property owner.
- ☐ **Deed of "Off-Source" Property:** The most recent deed(s) as well as legal descriptions, for all affected deeded **off-source property(ies).** This does not apply to right-of-ways.
  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.*
- ☐ **Letter To "Governmental Unit/Right-Of-Way" Owners:** Copies of all letters sent by the Responsible Party (RP) to a city, village, municipality, state agency or any other entity responsible for maintenance of a public street, highway, or railroad right-of-way, within or partially within the contaminated area, for contamination exceeding a groundwater Enforcement Standard (ES) and/or soil exceeding a Residual Contaminant Level (RCL) or a Site Specific Residual Contaminant Level (SSRCL).

  Number of "Governmental Unit/Right-Of-Way Owner" Letters:

666869
Document Number

DEED RESTRICTION

RECEIVED FOR RECORD
VOL 1442 PAGE 423-425
99 APR -7 PM 2:12
REGISTER OF DEEDS
FOND DU LAC COUNTY, WI

In Re: Lot 1 of Certified Survey Map No. 2508 as recorded in Volume 13 of Certified Survey Maps on pages 80 and 80A, being a par of lands located in the NE ¼ NE1/4, Section 14, T14N, R16E, Village of Oakfield, Fond du Lac County, Wisconsin, including all railroad right-of-way lands acquired under Quit Claim Deed recorded in the Office of the Register of Deeds of Fond du Lac County on August 15, 1989, in Vol. 1000, pg. 729.

14

Erdmann's Oakfield Oil Co. Inc.
P.O. Box 305
120 E. Church St.
Oakfield WI. 53065-0305

Name and Return Address

V06-14-16-14-01-011-00
Parcel Identification Number (PIN)

Declaration of Restrictions

STATE OF WISCONSIN)
) SS
COUNTY OF Fond du Lac)

WHEREAS, Erdmann's Oakfield Oil Co., Inc. is the owner of the above described property.

WHEREAS, it is the desire and intention of the property owners to impose on the property restrictions which will make it unnecessary to conduct further soil remediation activities on the property at the present time.

NOW THEREFORE, the owners hereby declares that all of the property described above is held and shall be held, conveyed or encumbered, leased, rented, used, occupied and improved subject to the following limitation and restrictions:

One or more Petroleum related discharges have occurred at this property. The depth of soil contamination made complete removal impracticable. Petroleum contaminated soil may remain on this property at the following locations: Soil Sample location B-2, 1700 parts per million, ("ppm"), gasoline range organics "GRO" at 9feet and P-2, 961 ppm diesel range organics "DRO"). Sample locations are shown in Figure 1 which is attached and made part of this restriction. Pursuant to the requirements of s. 292.11, Stats., if soils in these locations are accessed or exposed the property owner shall be required to conduct an investigation of the degree and extent of Petroleum

contamination. To the extent that contamination is found at that time, the Wisconsin Department of Natural Resources shall be immediately notified and the contamination shall be properly treated or disposed of in accordance with applicable laws.

This restriction is hereby declared to be a covenant running with the land and shall be fully binding upon all persons acquiring the above-described property whether by descent, devise, purchase or otherwise. This restriction inures to the benefit and is enforceable by the Wisconsin Department of Natural Resources, its successors or assigns. The Department, its successors or assigns, may initiate proceedings at law or in equity against any person or persons who violate or are proposing to violate this covenant, to prevent the proposed violation or to recover damages for such violation.

Any person who is or becomes owner of the property described above may request that the Wisconsin Department of Natural Resources or its successor issue a determination that one or more of the restrictions set forth in this covenant is no longer required. Upon the receipt of such a request, the Wisconsin Department of Natural Resources shall determine whether or not the restrictions contained herein can be extinguished. If the Department determines that the restrictions can be extinguished, an affidavit, attached to a copy of the Department's written determination, may be recorded by the property owner or other interested party to give notice that this deed restriction, or portions of this deed restriction, are no longer binding.

IN WITNESS WHEREOF, the owners of the property have executed this Declaration of Restrictions, this 7th day of April, 1999.

By signing this document, I acknowledges that [he/she] is duly authorized to sign this document on behalf of Erdmann's ~~Oakfield Oil Co., Inc.~~

Signature: James J. Erdmann

Printed Name: James J. Erdmann

Title: Pres.

Subscribed and sworn to before me
this 7 day of April, 1999

Sally Barlean

Notary Public, State of Wi

My commission 5-21-99

This document was drafted by the Wisconsin Department of Natural Resources.

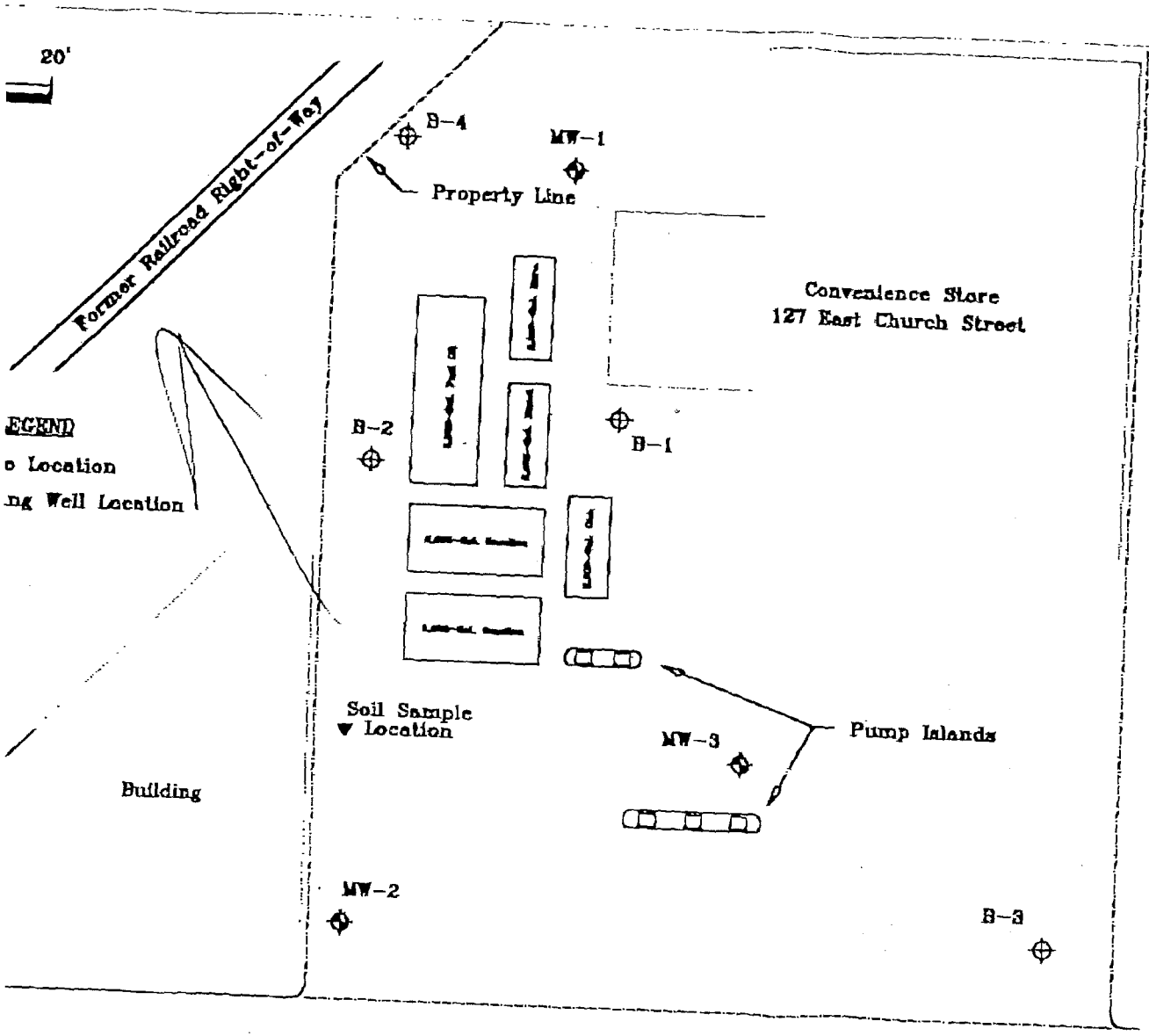


Figure 1
SITE PLAN

Erdmann's Oakfield Oil Company, Inc.
Oakfield, Wisconsin

VOL 1442 PAGE 425

4 of 4

WISCONSIN
DEPT. OF NATURAL RESOURCES

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Tommy G. Thompson, Governor
George E. Meyer, Secretary
William R. Selbig, Regional Director

Oshkosh Service Center
905 Bay Shore Drive
P.O. Box 2565
Oshkosh, Wisconsin 54903
Telephone 920-424-3050
FAX 920-424-4404

March 22, 1999

Mr. Jim Erdmann
Oakfield Oil Company
127 E. Church St.
Oakfield WI 53056

SUBJECT: Conditional Closure of Oakfield Oil Company
BRRTS ID# 03-20-109903

Dear Mr. Erdmann:

The above referenced case file has been reviewed by the WDNR's Northeast Region Case Closure Committee. This panel reviews environmental remediation cases for compliance with state laws, standards, and guidelines to maintain consistency in the closeout of cases. After careful review, the Committee has decided to grant a ***conditional*** case closure. At this time, it appears that actions have been taken to the extent practicable to restore the environment and minimize the harmful effects from this discharge to the air, lands and waters of the state.

First Condition: Deed Restriction

The WDNR is requiring no further remedial action at this time; however, ***You must file the attached "Declaration of Restriction" with your county Register of Deeds office within 30 days and send proof of this filing to the Department within 60 days of the date of this letter.*** The attached restriction also includes maps which must be filed with the text. (The restriction is a Department standard format and has been drafted with oversight from Department attorneys . Please contact me if you have any questions or concerns regarding the restriction as written.)

Please note that case closure is dependent upon the filing of this deed restriction. *If the restriction is not filed with the County Register of Deeds, the case remains active and continued sampling of the monitoring wells at the site will be required.* A workplan of the sampling schedule and maintenance of the monitoring wells will be required within 90 days of the date of this letter if verification of the restriction filing is not received as indicated above.

Second Condition: Monitoring Well Abandonment

Due to the chlorinated solvent contamination seen in the wells at this site they cannot be abandoned at this time. The wells will either become part of the ERR case at this

location or become part of the case which caused the contamination. Please contact me if you have any questions regarding this.

Please be aware that this letter does not absolve the current, or any future owner of this property, from future decisions regarding this site or impacts which may be discovered and/or traced to past or future activities at this site. If additional information in the future indicates that further investigation and/or remediation is warranted, the Department will require that appropriate action be taken at that time.

The Department appreciates your efforts to protect and restore the environment at this site. If you have any questions regarding this letter, please contact me at (920) 424-7890.

Sincerely,

Kevin D. McKnight
WDNR, Hydrogeologist
mcknik@dnr.state.wi.us

cc: file
Murthy Polasa, Stiles Environmental, Inc., W7694 Hwy V, Lake Mills WI 53551

DOCUMENT NO. 512217

STATE BAR OF WISCONSIN FORM 3 — 1982
QUIT CLAIM DEED

RECORDED
VOL 1084 PAGE 738
Jan 11 3 19 PM '92
Mary E. Shields
REGISTER OF DEEDS
FOND DU LAC COUNTY, WI

JAMES ERDMANN and KANDACE ERDMANN, GRANTORS

quit-claim to ERDMANN'S OAKFIELD OIL CO., INC., a Wisconsin Corporation, GRANTEE

the following described real estate in Fond du Lac County, State of Wisconsin:

RETURN TO:
A. D. Edgerton
P. O. Box 1276
Fond du Lac, WI 54936-1276

Tax Parcel No:

Lot 1 of Certified Survey Map No. 2506 as recorded in Volume 13 of Certified Survey Maps on pages 90 and 90A, being a part of lands located in the NE 1/4 NE 1/4, Section 14, T14N, R16E, Village of Oakfield, Fond du Lac County, Wisconsin, including all railroad right-of-way lands acquired under Quit Claim Deed recorded in the Office of the Register of Deeds of Fond du Lac County on August 15, 1989, in Vol. 1000, pg. 729.

The purpose of this Quit Claim is to clarify and correct the record and to have Grantor and Grantee approve, ratify and confirm the following: On July 1, 1978, the above described real estate was conveyed by Land Contract from Clair Zimmerman and Rosalie Zimmerman to James Erdmann. Said Land Contract was recorded December 4, 1980, in Vol. 822 Records, page 376-377. On the 1st day of July, 1980, by unrecorded Assignment of Land Contract, James Erdmann assigned all of his right, title and interest in said Land Contract as Grantee to Erdmann's Oakfield Oil Co., Inc. In fulfillment of said Land Contract, said Clair Zimmerman and Rosalie Zimmerman conveyed their interest in said real estate by Warranty Deed dated May 22, 1980, to James Erdmann. Said deed was recorded May 27, 1980, in Volume 918 Records, page 999. The Grantor and Grantee do hereby approve, ratify and confirm all of the conveyances set forth above and do further acknowledge and confirm that said real estate is now and has been, since July 1, 1980, the property of Erdmann's Oakfield Oil Co., Inc.

Tax Parcel #V06-14-16-124-01-011-00

FEE
77.25(3)
EXEMPT

This is not (is) (is not) homestead property

Dated this 6th day of May, 1992.

ERDMANN'S OAKFIELD OIL CO., INC.

By James J. Erdmann Pres (SEAL)
James J. Erdmann, President

Attest Warren R. Erdmann (SEAL)
Warren R. Erdmann, Secretary

James J. Erdmann (SEAL)
James Erdmann

Kandace Erdmann (SEAL)
Kandace Erdmann

AUTHENTICATION

Signature(s) of James Erdmann, Kandace Erdmann & Warren R. Erdmann authenticated this 6th day of May, 1992

A. D. Edgerton
TITLE: MEMBER STATE BAR OF WISCONSIN
(If not, authorized by § 706.06, Wis. Stats.)

Attorney A. D. Edgerton

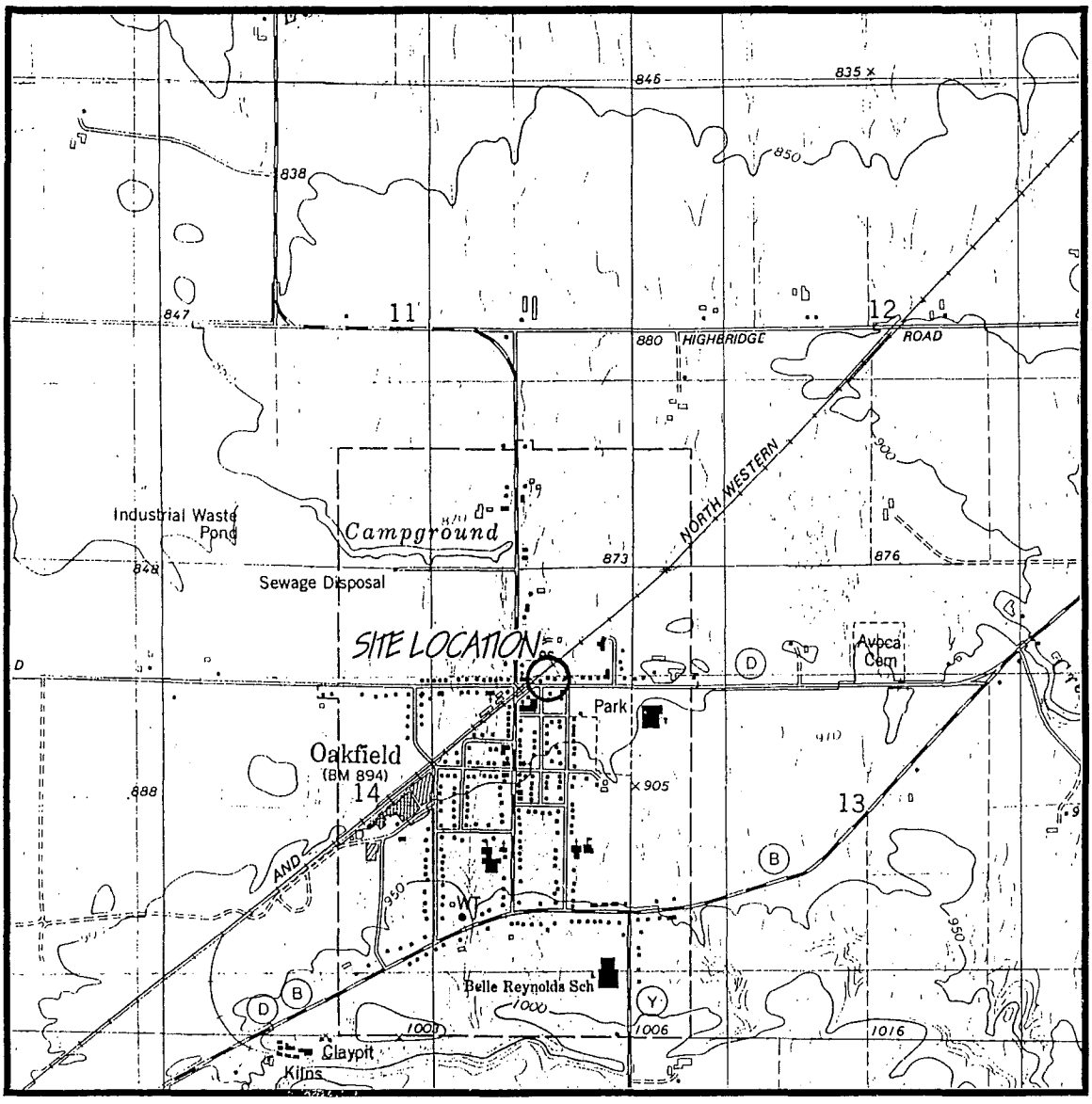
ACKNOWLEDGMENT

STATE OF WISCONSIN)
) ss.
County:)

Personally came before me this day of , 19 the above named to me known to be the person who executed the foregoing instrument and acknowledge the same.

Notary Public County, Wis.
My commission is permanent. (If not, state expiration date , 19 .)

Att. Murthy Polasa



SCALE 1:24000

7.5 Min Topographic Map
Oakfield, Wisconsin
1976

109903

FIGURE 1

SITE LOCATION MAP

Oakfield Oil Company, Inc.
127 East Church Street
Oakfield, Wisconsin

STILES

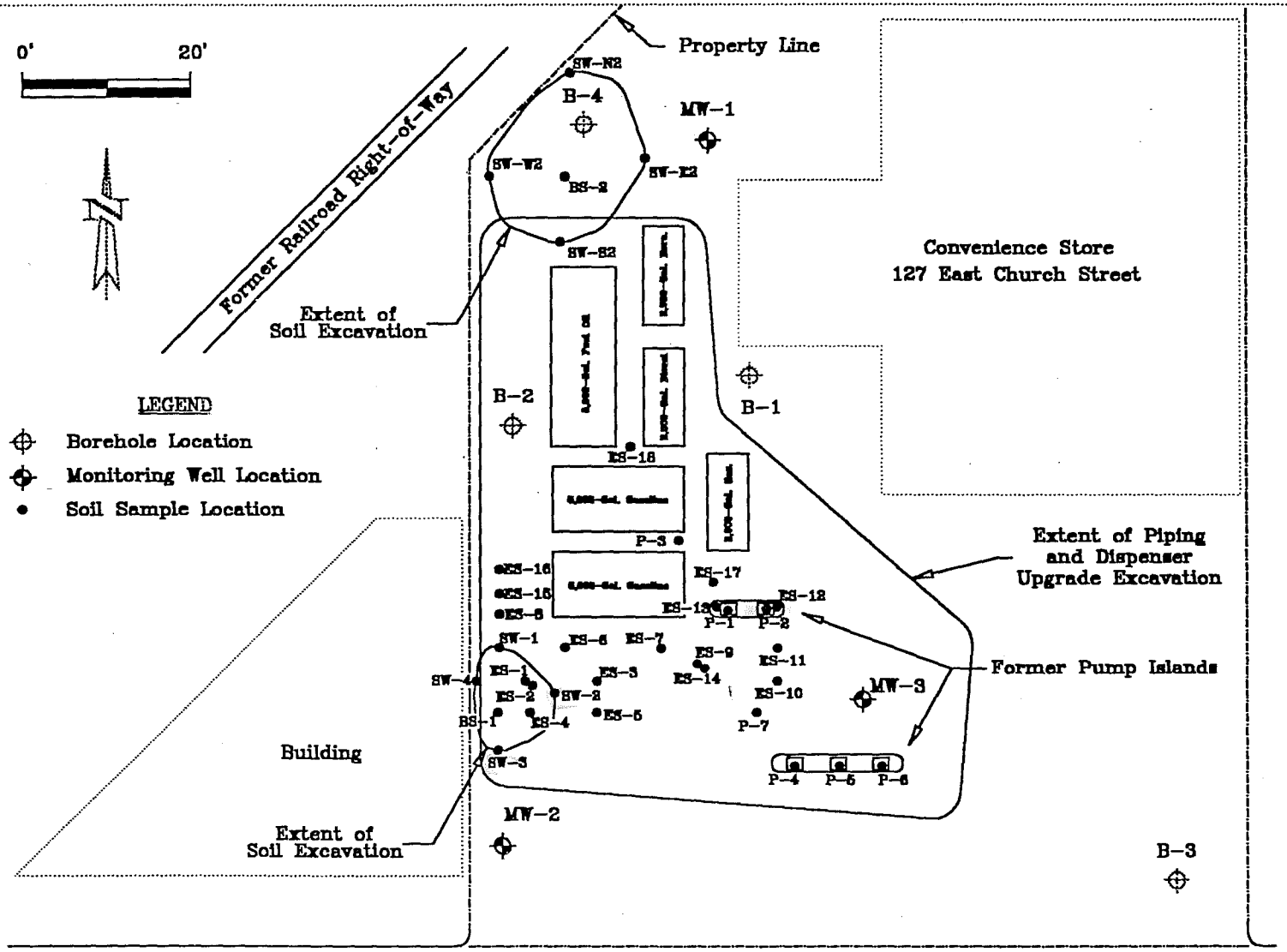


Figure 3 Church Street

EXCAVATION SOIL SAMPLE LOCATION MAP

Oakfield Oil Company, Inc.
Oakfield, Wisconsin

STILES

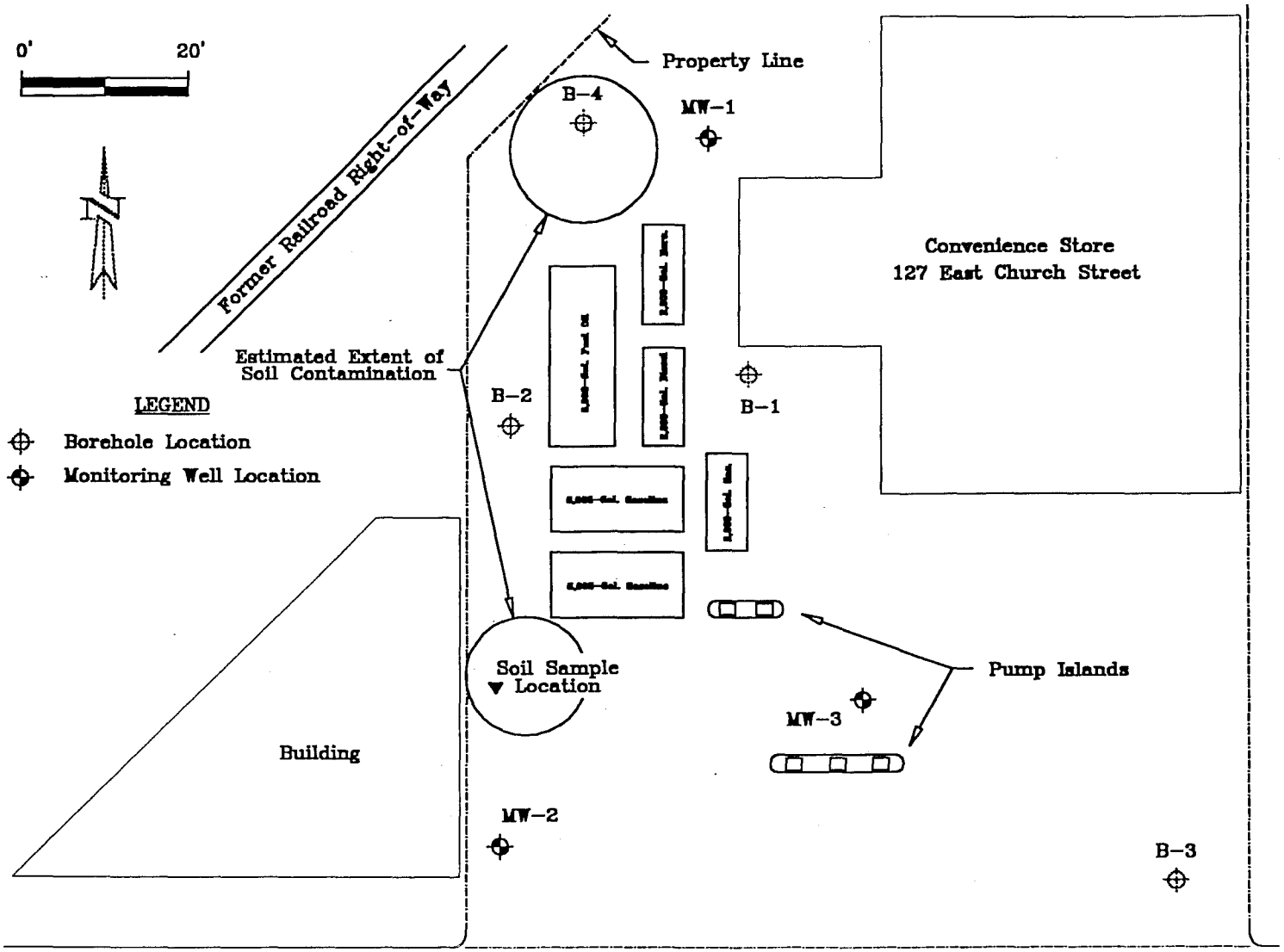
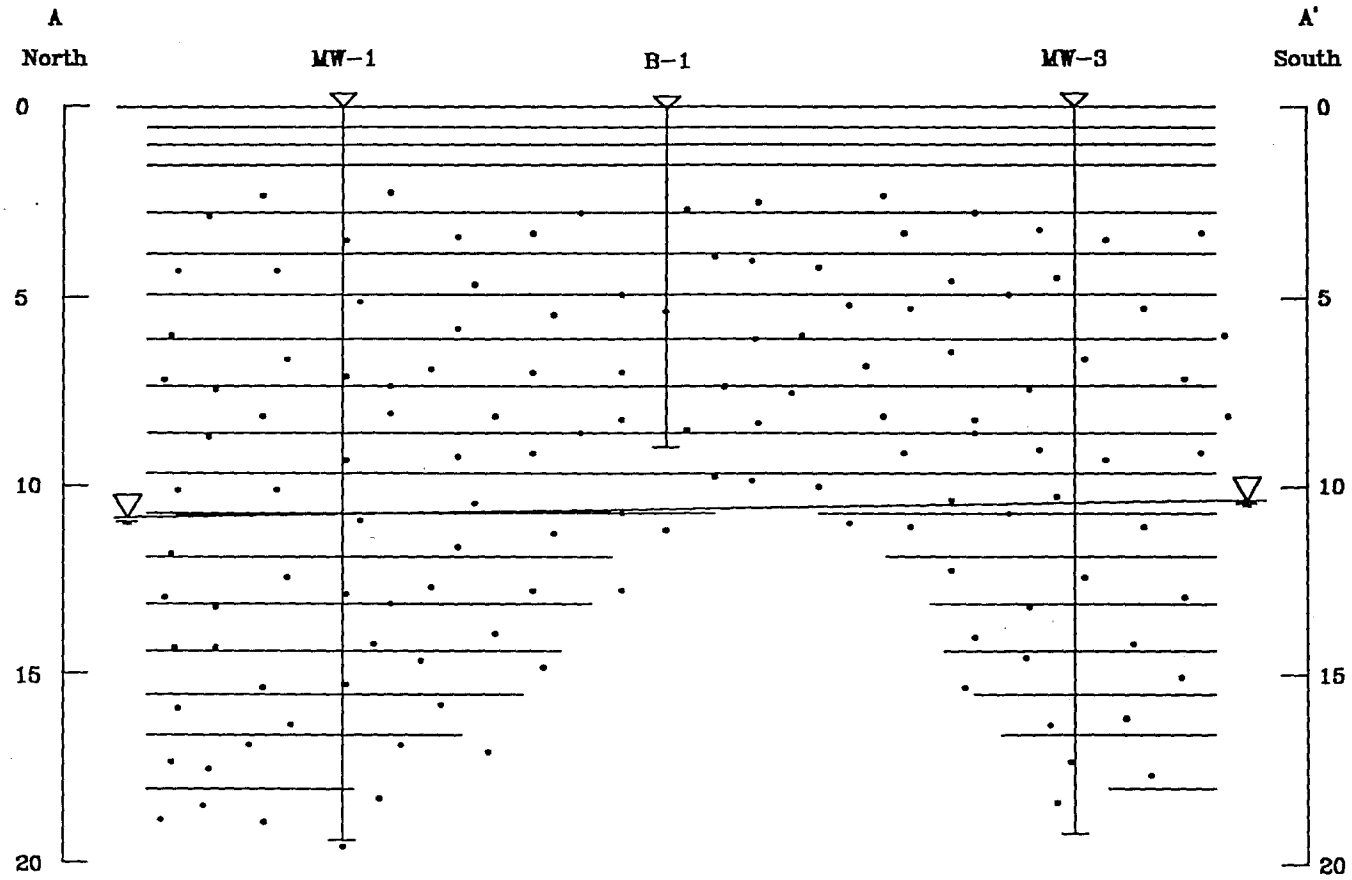


Figure 5

ESTIMATED EXTENT OF CONTAMINATION

Oakfield Oil Company, Inc.
Oakfield, Wisconsin

STILES



LEGEND

SILT & CLAY

SAND, SILT, & GRAVEL

Figure 3

GEOLOGIC CROSS-SECTION

Oakfield Oil Company, Inc.

Oakfield, Wisconsin

Horizontal Scale: 1" = 20'

Vertical Scale: 1" = 5'

Vertical Exaggeration: 4x

STILES

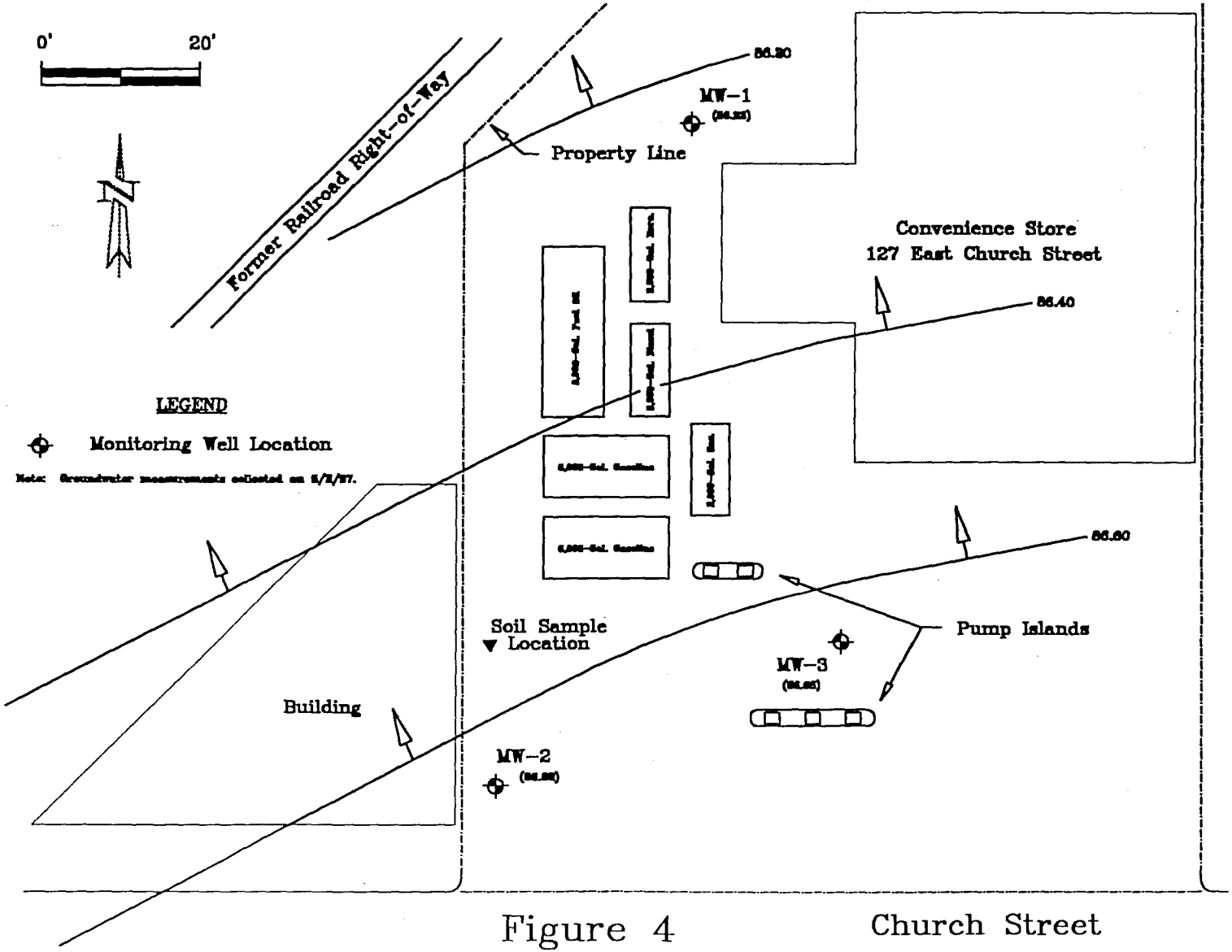


Figure 4

GROUNDWATER CONTOUR MAP

Oakfield Oil Company, Inc.
Oakfield, Wisconsin

STILES

Table 3

Results of the Borehole Soil Sampling

Oakfield Oil Company

Oakfield, Wisconsin

Parameter	Units	Sample ID													NR 720 RCL
		MW-1-1	MW-1-8.5	MW-2-3.5	MW-2-8.5	MW-3-1	MW-3-8.5	B-1-6	B-1-8.5	B-2-3.5	B-2-8.5	B-3-6	B-3-11	B-4-1	B-4-8.5	
sec-Butylbenzene	µg/kg	<33	<29	<31	<29	<31	81	<29	<30	<29	<30	<31	<30	<28	<30	ns
1,2,4-Trimethylbenzene	µg/kg	<33	<29	<31	<29	<31	36	<29	<30	<29	<30	<31	<30	<28	<30	ns
1,3,5-Trimethylbenzene	µg/kg	<33	<29	<31	<29	<31	35	<29	<30	<29	<30	<31	<30	<28	<30	ns
Gasoline range organics	mg/kg	<6.6	<5.7	<6.2	<5.8	<6.1	61	<5.6	<6.0	<5.8	<6.0	<6.1	<6.0	<5.6	<6.0	100
Diesel range organics	mg/kg	12	7.9	<5.6	6.9	6.8	44	5.4	12	6.4	<6.0	16	32	629	7.0	100
Lead	mg/kg	7.3	<4.2	<4.5	<4.2	6.8	<4.4	<4.1	<4.8	<4.2	<4.8	<4.4	<4.3	6.1	<4.3	50
Anthracene	µg/kg	132	<8.4	<9.0	<8.5	<8.9	<8.8	<8.2	<9.5	<8.5	<9.5	<8.9	<8.6	<9.0	<8.7	ns
Benzo(a)anthracene	µg/kg	468	<2.1	<2.3	<2.1	<2.2	<2.2	<2.0	<2.4	<2.1	<2.4	<2.2	<2.2	7.4	<2.2	ns
Benzo(b)fluoranthene	µg/kg	240	<2.1	<2.3	<2.1	<2.2	<2.2	<2.0	<2.4	<2.1	<2.4	<2.2	<2.2	7.1	<2.2	ns
Benzo(k)fluoranthene	µg/kg	252	<2.1	<2.3	<2.1	<2.2	<2.2	<2.0	<2.4	<2.1	<2.4	<2.2	<2.2	2.8	<2.2	ns
Benzo(a)pyrene	µg/kg	468	<4.2	<4.5	<4.2	<4.4	<4.4	<4.1	<4.8	<4.2	<4.8	<4.4	<4.3	11	<4.3	ns
Benzo(ghi)perylene	µg/kg	46	<4.2	<4.5	<4.2	<4.4	<4.4	<4.1	<4.8	<4.2	<4.8	<4.4	<4.3	8.5	<4.3	ns
Chrysene	µg/kg	336	<4.2	<4.5	<4.2	<4.4	<4.4	<4.1	<4.8	<4.2	<4.8	<4.4	<4.3	10	<4.3	ns
Dibenzo(a,h)anthracene	µg/kg	336	<4.2	<4.5	<4.2	<4.4	<4.4	<4.1	<4.8	<4.2	<4.8	<4.4	<4.3	<4.5	<4.3	ns
Fluoranthene	µg/kg	1,010	<8.4	<9.0	<8.5	<8.9	<8.8	<8.2	<9.5	<8.5	<9.5	<8.9	<8.6	27	<8.7	ns
Fluorene	µg/kg	264	<17	<18	<17	<18	<18	<16	<19	<17	<19	<18	<17	<18	<17	ns
Indeno(1,2,3-cd)pyrene	µg/kg	31	<4.2	<4.5	<4.2	<4.4	<4.4	<4.1	<4.8	<4.2	<4.8	<4.4	<4.3	6.5	<4.3	ns
Pheneanthrene	µg/kg	528	<17	<18	<17	<18	<18	<16	<19	<17	<19	<18	<17	<18	<17	ns
Pyrene	µg/kg	803	<8.4	<9.0	<8.4	<8.9	<8.8	<8.2	<9.5	<8.5	<9.5	<8.9	<8.6	17	<8.7	ns
Sample Depth (feet below grade)	--	1-3	8.5-10.5	3.5-5.5	8.5-10.5	1-3	8.5-10.5	6-8	8.5-10.5	3.5-5.5	8.5-10.5	6-8	11-13	1-3	8.5-10.5	--

Samples collected on 3/3/97 and analyzed for gasoline range organics, diesel range organics, petroleum volatile organic compounds, polynuclear aromatic hydrocarbons, and lead.
Sample results are on a dry weight basis.
Only parameters with detects are presented.
Shaded results indicate NR 720 residual contaminant level (RCL) exceedances.
na = Not analyzed.
ns = No established NR 720 residual contaminant level.

Table 7
Results of the Excavation Soil Sampling
Oakfield Oil Company
Oakfield, Wisconsin

Parameter	Sample ID																	NR 720 RCL
	BS-1	SW-1	SW-2	SW-3	SW-4	BS-2	SW-N2	SW-E2	SW-S2	SW-W2	P-1	P-2	P-3	P-4	P-5	P-6	P-7	
Benzene	<11	<10	<10	<11	<12	<25	<25	<25	<25	<25	na	na	na	na	na	na	na	5.5
Ethylbenzene	<28	<26	<26	<27	<29	86	<25	<25	<25	<25	na	na	na	na	na	na	na	2,900
MTBE	<28	<26	<26	<27	<29	<25	<25	<25	<25	<25	na	na	na	na	na	na	na	ns
Toluene	<28	<26	<26	<27	<29	<25	<25	<25	<25	32	na	na	na	na	na	na	na	1,500
1,2,4-TMB	<28	<26	<26	59	<29	140	<25	30	29	40	na	na	na	na	na	na	na	ns
1,3,5-TMB	<28	<26	<26	<27	<29	180	<25	32	<25	<25	na	na	na	na	na	na	na	ns
Xylenes	<84	<78	<78	<82	<86	263	<25	<25	30	87	na	na	na	na	na	na	na	4,100
GRO	<5.6	<5.2	<5.2	<5.5	<5.8	15	<3.0	7.8	<2.8	<2.7	na	na	na	6.8	<5.5	<5.5	<6.4	100
DRO	<5.6	<5.2	<5.2	121	51	27	<4.3	120	11	27	7.6	961	<5.2	na	na	na	na	100
Benzo(a)anthracene	na	na	na	na	na	32	15	<12	<13	25	na	na	na	na	na	na	na	ns
Benzo(b)fluoranthene	na	na	na	na	na	30	<16	<15	<15	20	na	na	na	na	na	na	na	ns
Benzo(k)fluoranthene	na	na	na	na	na	37	<15	<13	<14	23	na	na	na	na	na	na	na	ns
Benzo(a)pyrene	na	na	na	na	na	46	17	<12	<12	24	na	na	na	na	na	na	na	ns
Benzo(ghi)perylene	na	na	na	na	na	55	16	<14	<14	26	na	na	na	na	na	na	na	ns
Chrysene	na	na	na	na	na	30	19	<13	<13	27	na	na	na	na	na	na	na	ns
Fluoranthene	na	na	na	na	na	42	21	<14	<14	43	na	na	na	na	na	na	na	ns
Indeno(1,2,3-cd)pyrene	na	na	na	na	na	37	<15	<13	<14	21	na	na	na	na	na	na	na	ns
1-Methylnaphthalene	na	na	na	na	na	<17	21	37	27	25	na	na	na	na	na	na	na	ns
2-Methylnaphthalene	na	na	na	na	na	<16	24	21	28	44	na	na	na	na	na	na	na	ns
Naphthalene	na	na	na	na	na	<15	17	<15	<15	<14	na	na	na	na	na	na	na	ns
Phenanthrene	na	na	na	na	na	23	21	23	<15	36	na	na	na	na	na	na	na	ns
Pyrene	na	na	na	na	na	38	21	<14	<14	38	na	na	na	na	na	na	na	ns

Soil samples analyzed for gasoline range organics (GRO), diesel range ogranics (DRO), and petroleum volatile organic compounds (PVOCs), and polynuclear aromatic hydrocarbons (PAHs).
Only parameters with detects are presented, with results in micrograms per kilogram (µg/kg) except for GRO and DRO in milligrams per kilogram (mg/kg).
MTBE = Methyl tert butyl ether 1,2,4-TMB = 1,2,4-Trimethylbenzene 1,3,5-TMB = 1,3,5-Trimethylbenzene
Shaded results indicate NR 720 residual contaminant level (RCL) exceedances. It should be noted contaminated soil at sample location P-2 was excavated and landfilled.
na = not analyzed. ns = No established NR 720 RCL.

Table 4

Groundwater Measurements

Oakfield Oil Company

Oakfield, Wisconsin

Well ID	Groundwater Monitoring Well PVC Elevation[1]	March 19, 1997		May 2, 1997	
		Depth to Water (ft)	Groundwater Elevation[1]	Depth to Water (ft)	Groundwater Elevation
MW1	97.28	11.53	85.75	11.05	86.23
MW2	97.05	11.02	86.03	10.43	86.62
MW3	96.89	10.77	86.12	10.21	86.68

Footnote:

(1) Elevations measured to 100 foot site datum.

STILES

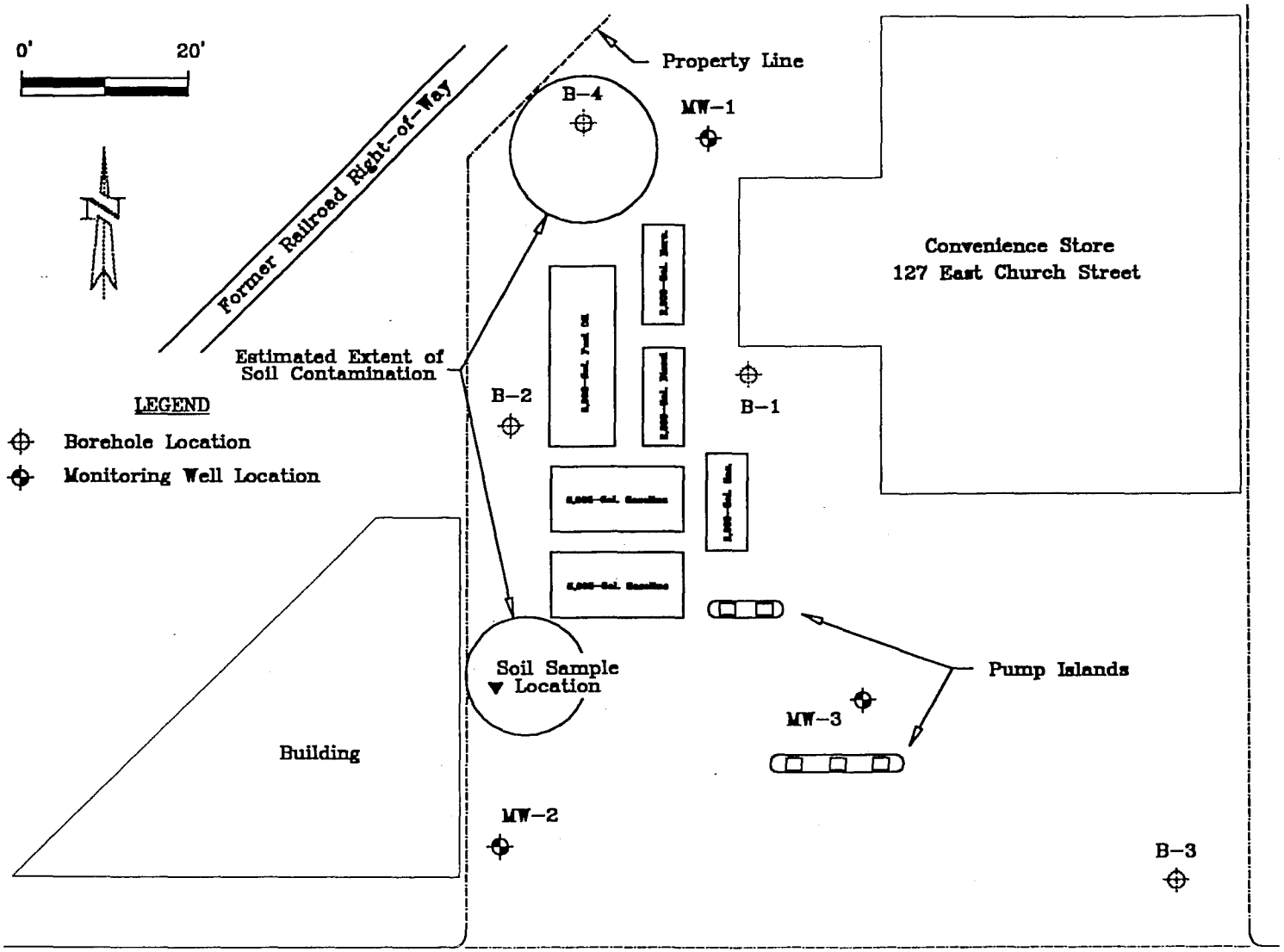


Figure 5

ESTIMATED EXTENT OF CONTAMINATION

Oakfield Oil Company, Inc.
Oakfield, Wisconsin

STILES

GIS REGISTRY
Cover Sheet

July, 2008
(RR 5367)

Source Property Information

CLOSURE DATE: Jan 26, 2000

BRRTS #: 03-20-002444

ACTIVITY NAME: UTTENDORFER ESTATE PROPERTY

PROPERTY ADDRESS: 260 N MAIN ST

MUNICIPALITY: OAKFIELD

PARCEL ID #: V06-14-16-99-PU-010-00, V06-14-16-99-PU-015-00

FID #:

DATCP #:

COMM #: 53065959360

***WTM COORDINATES:**

X: **637055** Y: **357979**

** Coordinates are in WTM83, NAD83 (1991)*

WTM COORDINATES REPRESENT:

- (•) Approximate Center Of Contaminant Source
- ( ) Approximate Source Parcel Center

Please check as appropriate: (BRRTS Action Code)

Contaminated Media:

- [X] Groundwater Contamination > ES *(236)*
  - [ ] Contamination in ROW
  - [ ] Off-Source Contamination

  (***note:*** *for list of off-source properties see "Impacted Off-Source Property")*
- [X] Soil Contamination > *RCL or **SSRCL *(232)*
  - [ ] Contamination in ROW
  - [ ] Off-Source Contamination

  (***note:*** *for list of off-source properties see "Impacted Off-Source Property")*

Land Use Controls:

- [ ] Soil: maintain industrial zoning *(220)*

  (***note:*** *soil contamination concentrations between residential and industrial levels)*
- [ ] Structural Impediment *(224)*
- [ ] Site Specific Condition *(228)*
- [ ] Cover or Barrier *(222)*

  (***note:*** *maintenance plan for groundwater or direct contact)*
- [ ] Vapor Mitigation *(226)*
- [ ] Maintain Liability Exemption *(230)*

  (***note:*** *local government or economic development corporation)*

Monitoring wells properly abandoned? *(234)*

( ) Yes (•) No ( ) N/A

** Residual Contaminant Level*
***Site Specific Residual Contaminant Level*

State of Wisconsin
Department of Natural Resources
http://dnr.wi.gov

GIS Registry Checklist

Form 4400-245 (R 4/08)

This Adobe Fillable form is intended to provide a list of information that is required for evaluation for case closure. It is to be used in conjunction with Form 4400-202, Case Closure Request. The closure of a case means that the Department has determined that no further response is required at that time based on the information that has been submitted to the Department.

NOTICE: Completion of this form is mandatory for applications for case closure pursuant to ch. 292, Wis. Stats. and ch. NR 726, Wis. Adm. Code, including cases closed under ch. NR 746 and ch. NR 726. The Department will not consider, or act upon your application, unless all applicable sections are completed on this form and the closure fee and any other applicable fees, required under ch. NR 749, Wis. Adm. Code, Table 1 are included. It is not the Department's intention to use any personally identifiable information from this form for any purpose other than reviewing closure requests and determining the need for additional response action. The Department may provide this information to requesters as required by Wisconsin's Open Records law [ss. 19.31 - 19.39, Wis. Stats.].

BRRTS #: 03-20-002444 PARCEL ID #: V06-14-16-99-PU-010-00, V06-14-16-99-PU-015-00

ACTIVITY NAME: UTTENDORFER ESTATE PROPERTY WTM COORDINATES: X: 637055 Y: 357979

CLOSURE DOCUMENTS (the Department adds these items to the final GIS packet for posting on the Registry)

☒ **Closure Letter** Deed Restriction Only - No Final Closure Letter

☐ **Maintenance Plan** (*if activity is closed with a land use limitation or condition (land use control) under s. 292.12, Wis. Stats.*)

☒ **Conditional Closure Letter**

☐ **Certificate of Completion (COC)** for VPLE sites

SOURCE LEGAL DOCUMENTS

☒ **Deed:** The most recent deed as well as legal descriptions, for the **Source Property** (where the contamination originated). Deeds for other, off-source (off-site) properties are located in the **Notification** section.
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.* (lots on subdivided or platted property (e.g. lot 2 of xyz subdivision)).

Figure #: **Title:**

☐ **Signed Statement:** A statement signed by the Responsible Party (RP), which states that he or she believes that the attached legal description accurately describes the correct contaminated property.

MAPS (meeting the visual aid requirements of s. NR 716.15(2)(h))

Maps must be no larger than 8.5 x 14 inches unless the map is submitted electronically.

☒ **Location Map:** A map outlining all properties within the contaminated site boundaries on a U.S.G.S. topographic map or plat map in sufficient detail to permit easy location of all parcels. If groundwater standards are exceeded, include the location of all potable wells within 1200 feet of the site.
Note: *Due to security reasons municipal wells are not identified on GIS Packet maps. However, the locations of these municipal wells must be identified on Case Closure Request maps.*

Figure #: 1 **Title: Site Location**

☒ **Detailed Site Map:** A map that shows all relevant features (buildings, roads, individual property boundaries, 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 exceeding a ch. NR 140 Enforcement Standard (ES), and/or in relation to the boundaries of soil contamination exceeding a Residual Contaminant Level (RCL) or a Site Specific Residual Contaminant Levels (SSRCL) as determined under s. NR 720.09, 720.11 and 720.19.

Figure #: B **Title: Site Plan Map**

☒ **Soil Contamination Contour Map:** For sites closing with residual soil contamination, this map is to show the location of all contaminated soil and a single contour showing the horizontal extent of each area of contiguous residual soil contamination that exceeds a Residual Contaminant Level (RCL) or a Site Specific Residual Contaminant Level (SSRCL)as determined under s. NR 720.09, 720.11 and 720.19.

Figure #: G **Title: Areas Of Excavation and Sample Locations**

BRRTS #: 03-20-002444 ACTIVITY NAME: UTTENDORFER ESTATE PROPERTY

MAPS (continued)

☒ **Geologic Cross-Section Map:** A map showing the source location and vertical extent of residual soil contamination exceeding a Residual Contaminant Level (RCL) or a Site Specific Residual Contaminant Level (SSRCL). If groundwater contamination exceeds a ch. NR 140 Enforcement Standard (ES) when closure is requested, show the source location and vertical extent, water table and piezometric elevations, and locations and elevations of geologic units, bedrock and confining units, if any.

Figure #: H1 & H2 **Title: Post Remedial Cross Section South-North #1 and #2**

Figure #: H3 **Title: Postexcavation Cross Section west-East #1**

☒ **Groundwater Isoconcentration Map:** For sites closing with residual groundwater contamination, this map shows the horizontal extent of all groundwater contamination exceeding a ch. NR140 Preventive Action Limit (PAL) and an Enforcement Standard (ES). Indicate the direction and date of groundwater flow, based on the most recent sampling data.
Note: *This is intended to show the total area of contaminated groundwater.*

Figure #: J **Title: Groundwater Sample Locations**

☒ **Groundwater Flow Direction Map:** A map that represents groundwater movement at the site. If the flow direction varies by more then 20° over the history of the site, submit 2 groundwater flow maps showing the maximum variation in flow direction.

Figure #: K **Title: Groundwater Contour Map (May 20, 1998)**

Figure #: **Title:**

TABLES (meeting the requirements of s. NR 716.15(2)(h)(3))

Tables must be no larger than 8.5 x 14 inches unless the table is submitted electronically. Tables must not contain shading and/or cross-hatching. The use of **BOLD** or *ITALICS* is acceptable.

☒ **Soil Analytical Table:** A table showing remaining soil contamination with analytical results and collection dates.
Note: This is one table of results for the contaminants of concern. Contaminants of concern are those that were found during the site investigation, that remain after remediation. It may be necessary to create a new table to meet this requirement.

Table #: F **Title: Overexcavation Sample Results**

☒ **Groundwater Analytical Table:** Table(s) that show the most recent analytical results and collection dates, for all monitoring wells and any potable wells for which samples have been collected.

Table #: 1 **Title: Groundwater Quality Data**

☐ **Water Level Elevations:** Table(s) that show the previous four (at minimum) water level elevation measurements/dates from all monitoring wells. If present, free product is to be noted on the table.

Table #: **Title:**

IMPROPERLY ABANDONED MONITORING WELLS

For each monitoring well not properly abandoned according to requirements of s. NR 141.25 include the following documents.
Note: *If the site is being listed on the GIS Registry for only an improperly abandoned monitoring well you will only need to submit the documents in this section for the GIS Registry Packet.*

☐ **Not Applicable**

☐ **Site Location Map:** A map showing all surveyed monitoring wells with specific identification of the monitoring wells which have not been properly abandoned.
Note: *If the applicable monitoring wells are distinctly identified on the Detailed Site Map this Site Location Map is not needed.*

Figure #: **Title:**

☐ **Well Construction Report:** Form 4440-113A for the applicable monitoring wells.

☐ **Deed:** The most recent deed as well as legal descriptions for each property where a monitoring well was not properly abandoned.

☒ **Notification Letter:** Copy of the notification letter to the affected property owner(s).

BRRTS #: 03-20-002444 ACTIVITY NAME: UTTENDORFER ESTATE PROPERTY

NOTIFICATIONS

Source Property

- ☐ **Letter To Current Source Property Owner:** If the source property is owned by someone other than the person who is applying for case closure, include a copy of the letter notifying the current owner of the source property that case closure has been requested.
- ☐ **Return Receipt/Signature Confirmation:** Written proof of date on which confirmation was received for notifying current source property owner.

Off-Source Property

Group the following information per individual property and label each group according to alphabetic listing on the "Impacted Off-Source Property" attachment.

- ☐ **Letter To "Off-Source" Property Owners:** Copies of all letters sent by the Responsible Party (RP) to owners of properties with groundwater exceeding an Enforcement Standard (ES), and to owners of properties that will be affected by a land use control under s. 292.12, Wis. Stats.
  Note: *Letters sent to off-source properties regarding residual contamination must contain standard provisions in Appendix A of ch. NR 726.*

  Number of "Off-Source" Letters:
- ☐ **Return Receipt/Signature Confirmation:** Written proof of date on which confirmation was received for notifying any off-source property owner.
- ☐ **Deed of "Off-Source" Property:** The most recent deed(s) as well as legal descriptions, for all affected deeded **off-source property(ies).** This does not apply to right-of-ways.
  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.*
- ☐ **Letter To "Governmental Unit/Right-Of-Way" Owners:** Copies of all letters sent by the Responsible Party (RP) to a city, village, municipality, state agency or any other entity responsible for maintenance of a public street, highway, or railroad right-of-way, within or partially within the contaminated area, for contamination exceeding a groundwater Enforcement Standard (ES) and/or soil exceeding a Residual Contaminant Level (RCL) or a Site Specific Residual Contaminant Level (SSRCL).

  Number of "Governmental Unit/Right-Of-Way Owner" Letters:

666802

Document Number

GROUNDWATER USE RESTRICTION

RECEIVED FOR RECORD

VOL 1442 PAGE 249-251

99 APR -6 PM 3:19

REGISTER OF DEEDS
FOND DU LAC COUNTY, WI

Recording Area

Name and Return Address
Marie L. Barbeau
105 W. Church St.
PO Box 236
Oakfield, WI 53065-0236

14-

Parcel Identification Number (PIN)

Declaration of Restrictions

In Re: The North 50 feet and 5 inches of the South 85 feet and 5 inches of Lot Number 1 of Block Number 1 of Putnam and White's Addition to the Village of Oakfield, Wisconsin, according to the recorded plat thereof.

ALSO: Commencing at a point where the East line of the Southwest Quarter of the Northeast Quarter of Section 14, Township 14 north, of Range 16 East intersects the southeasterly line of the right-of –way of the Chicago and Northwestern Railway Company, said point being in the center of Mill Street in the Village of Oakfield, Fond du Lac County, Wisconsin; thence South on the center line of Mill Street, 69 feet and 11 inches; thence West along the center of the partition wall between the stores now owned by said H. Manz, to the said Southeasterly line of the right-of –way of the Chicago and northwestern Railway Company; thence northeasterly along said right-of-way to the place of beginning, it being the North part of Lot 1 of Block 1 of Putnam and White's Addition to the Village of Oakfield, Wisconsin.

ALSO: The South 35 feet of Lot Number 1, Block Number 1, of Putnum and White's Addition to the Village of Oakfield.

STATE OF WISCONSIN)
) ss
COUNTY OF Fond du Lac)

R + R - OSH
RECEIVED

APR 12 1999

TRACKED ☐
REVIEWED ☐

WHEREAS, the Hazel L. Uttendorfer Estate is the owner of the above-described property.

WHEREAS, one or more Petroleum related discharges have occurred at this property. Petroleum contaminated groundwater above NR 140 enforcement standards exists on this property at the following location(s): Monitoring Well B2 (MW-B2) with 37ppb (parts per billion) Benzene and 60ppb Naphthalene, and soil contamination exists at the following locations: Field sample location #6 at 8 feet with 220ppb benzene, 5200ppb ethylbenzene, 9200ppb toluene ; 21200ppb xylenes and Field Sample location #7 at 8 feet with less than 630ppb benzene, 13000 ethylbenzene, 70000 xylene. (Monitoring well and Field Sample locations are shown in Figure G which is attached and made part of this restriction.)

WHEREAS, it is the desire and intention of the property owner to impose on the property restrictions which will make it unnecessary to conduct additional soil or groundwater remediation activities on the property at the present time.

WHEREAS, natural attenuation has been approved by the Department of Natural Resources to remediate groundwater exceeding ch. NR 140 groundwater standards within the boundaries of this property.

WHEREAS, construction of wells where the water quality exceeds the drinking water standards in ch. NR 809 is restricted by ch. NR 811 and ch. NR 812. Special well construction standards or water treatment requirements, or both, or well construction prohibitions may apply.

NOW THEREFORE, the owner hereby declares that all of the property described above is held and shall be held, conveyed or encumbered, leased, rented, used, occupied and improved subject to the following limitation and restrictions:

Anyone who proposes to construct or reconstruct a well on this property is required to contact the Department of Natural Resources' Bureau of Drinking Water and Groundwater, or its successor agency, to determine what specific prohibitions or requirements are applicable, prior to constructing or reconstructing a well on this property. No well may be constructed or reconstructed on this property unless applicable requirements are met.

Pursuant to the requirements of s. 292.11, Stats., if soils in these locations are excavated or removed, the property owner shall be required to conduct an investigation of the degree and extent of petroleum contamination. To the extent that contamination is found at that time, the Wisconsin Department of Natural Resources shall be immediately notified and the contamination shall be properly treated or disposed of in accordance with applicable laws.

This restriction is hereby declared to be a covenant running with the land and shall be fully binding upon all persons acquiring the above-described property whether by descent, devise, purchase or otherwise. This restriction benefits and is enforceable by, the Wisconsin Department of Natural Resources, its successors and assigns. The Department, its successors or assigns, may initiate proceedings at law or in equity against any person or persons who violate or are proposing to violate this covenant, to prevent the proposed violation or to recover damages for such violation.

Any person who is or becomes owner of the property described above may request that the Wisconsin Department of Natural Resources or its successor issue a determination that the restrictions set forth in this covenant are no longer required. Upon receipt of such a request, the Wisconsin Department of Natural Resources shall determine whether or not the restrictions contained herein can be extinguished. If the Department determines that the restrictions can be extinguished, an affidavit, with a copy of the Department's written determination, may be recorded to give notice that this groundwater use restriction is no longer binding.

IN WITNESS WHEREOF, the owner of the property has executed this Declaration of Restrictions, this 6th day of April, 1999.

Signature: Marie L. Barbeau

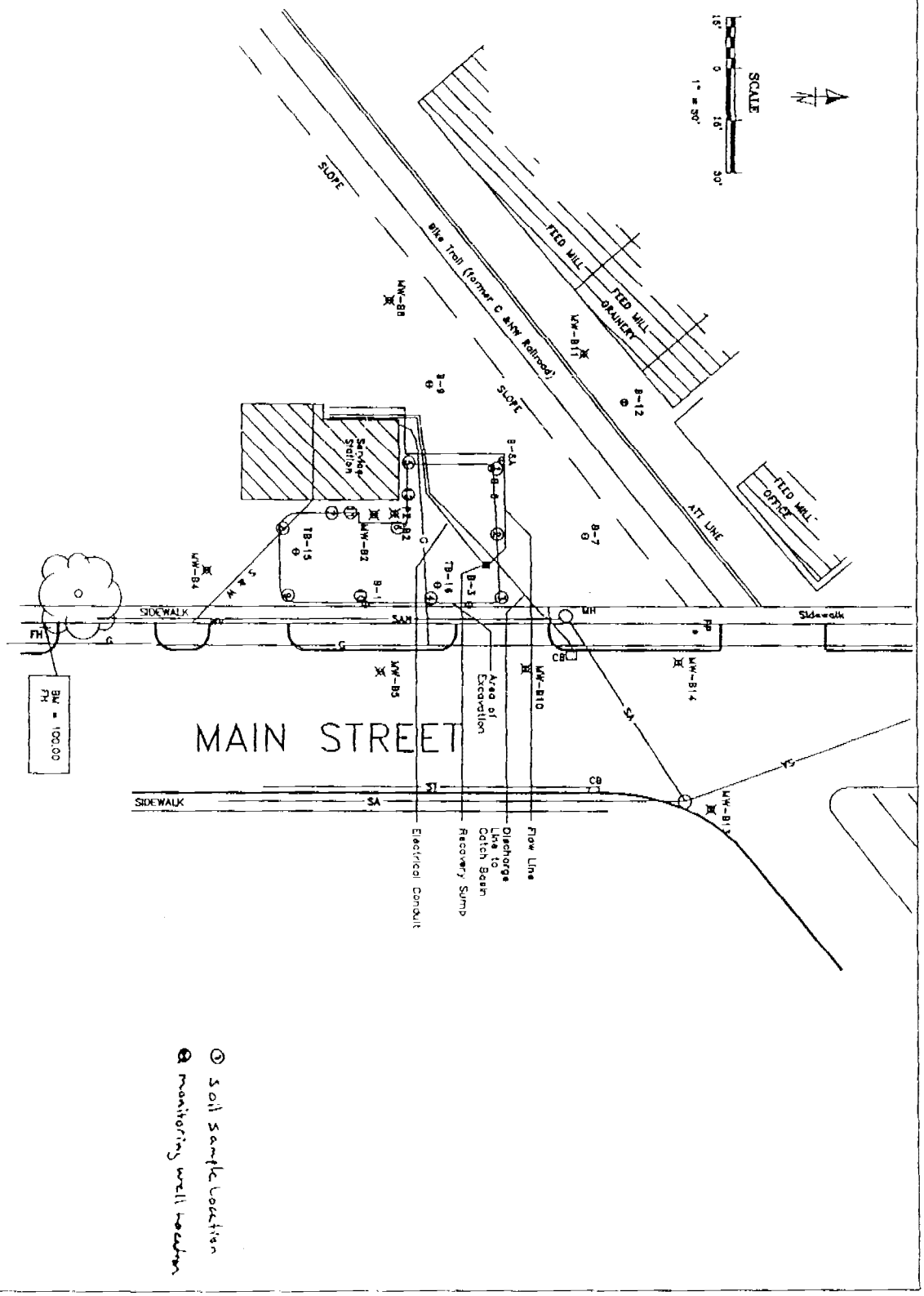
Printed Name: Marie L. Barbeau
Title: Personal Representative

Subscribed and sworn to before me
this 6 day of April 1999

Sally Barbeau

Notary Public, State of Wi
My commission 5-21-2000

This document was drafted by the Wisconsin Department of Natural Resources.



Area of Excavation and Sample Locations
Oakfield Standard
Oakfield, Wisconsin

ENGEL & ASSOCIATES, INC.
N4737 HIGHWAY 175 S.
FOND DU LAC, WI 54937
920-929-9279 FAX: 920-929-8764

113-02
FIGURE G

Two map must be enlarged 1.5X to reflect accurate scale

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Tommy G. Thompson, Governor
George E. Meyer, Secretary
William R. Selbig, Regional Director

Oshkosh Service Center
905 Bay Shore Drive
P.O. Box 2565
Oshkosh, Wisconsin 54903
Telephone 920-424-3050
FAX 920-424-4404

March 25, 1999

Ms. Marie Barbeau
Re: Uttendorfer Estate
P.O. Box 236
Oakfield WI 53065

COPY

SUBJECT: Conditional Closure of Hazel Uttendorfer Estate
260 N. Main St., Oakfield WI
BRRTS ID# 03-20-002444

Dear Ms. Barbeau:

The above referenced case file has been reviewed by the WDNR's Northeast Region Case Closure Committee. This panel reviews environmental remediation cases for compliance with state laws, standards, and guidelines to maintain consistency in the closeout of cases. After careful review, the Committee has decided to grant a ***conditional*** case closure. At this time, it appears that actions have been taken to the extent practicable to restore the environment and minimize the harmful effects from this discharge to the air, lands and waters of the state.

First Condition: Deed Restriction

The WDNR is requiring no further remedial action at this time; however, ***You must file the attached "Declaration of Restriction" with your county Register of Deeds office within 30 days and send proof of this filing to the Department within 60 days of the date of this letter.*** The attached restriction also includes maps which must be filed with the text. (The restriction is a Department standard format and has been drafted with oversight from Department attorneys . Please contact me if you have any questions or concerns regarding the restriction as written.)

Please note that case closure is dependent upon the filing of this deed restriction. *If the restriction is not filed with the County Register of Deeds, the case remains active and continued sampling of the monitoring wells at the site will be required.* A workplan of the sampling schedule and maintenance of the monitoring wells will be required within 90 days of the date of this letter if verification of the restriction filing is not received as indicated above.

Second Condition: Monitoring Well Abandonment

After filing the restriction with the county, all monitoring wells, sumps, and/or boreholes must be abandoned according to Chapter NR 141, Wisconsin Administrative Code. The abandonment forms (#3300-5B) should be sent to my attention.
NOTE: Monitoring wells may not be abandoned until after DATCP sampling results have been received and it is determined that no further action is required.

Until verification of **both** the restriction and abandonment documentation is received, the DNR will continue to track this facility as an active BRR site.

Please be aware that this letter does not absolve the current, or any future owner of this property, from future decisions regarding this site or impacts which may be discovered and/or traced to past or future activities at this site. If additional information in the future indicates that further investigation and/or remediation is warranted, the Department will require that appropriate action be taken at that time.

The Department appreciates your efforts to protect and restore the environment at this site. If you have any questions regarding this letter, please contact me at (920) 424-7890.

Sincerely,

Kevin D. McKnight
WDNR, Hydrogeologist
mcknik@dnr.state.wi.us

cc: file
Amy Haak, Engel & Associates, Inc., N4737 Hwy. 175 S., Fond du Lac WI 54937

DOCUMENT NO. 295303

VOL 717 PAGE 382

WARRANTY DEED
STATE OF WISCONSIN—FORM 9
THIS SPACE RESERVED FOR RECORDING DATA

REGISTER'S OFFICE
Fond du Lac County, Wis.
Recorded at 8 A M.
JAN 20 1975
Vol. 717 Records Page 382
GEORGE H. OTTERY
REGISTER OF DEEDS
2.00 cy

RETURN TO
Nugent & Nugent, Attys.
Waupun, Wisconsin

THIS INDENTURE, Made by Marie Graf, an unmarried person, in her own right and as sole residuary legatee of the Edward G. Graf Estate

grantor of Fond du Lac County, Wisconsin, hereby conveys and warrants to Louis Uttendorfer and Hazel Uttendorfer, husband and wife, as tenants in common

grantees of Fond du Lac County, Wisconsin, for the sum of Two Thousand & No/100 Dollars ($2,000.00)

the following tract of land in Fond du Lac County, State of Wisconsin:

A one-fourth interest in the partnership real estate of Oakfield Standard Service, which includes all the interest of Edward G. Graf and Marie Graf, his wife, as partners in the Oakfield Standard Service, a partnership operated by Edward Graf, a/k/a Edward G. Graf and Marie Graf, his wife, as co-partners:

The North 50 feet and 5 inches of the South 85 feet and 5 inches of Lot Number 1 of Block Number 1 of Putnam and White's Addition to the Village of Oakfield, Wisconsin, according to the recorded plat thereof.

ALSO: Commencing at a point where the East line of the Southwest Quarter of the Northeast Quarter of Section 14, Township 14 North, of Range 16 East intersects the Southeasterly line of the right-of-way of the Chicago and Northwestern Railway Company, said point being in the center of Mill Street in the Village of Oakfield, Fond du Lac County, Wisconsin; thence South on the center line of Mill Street, 69 feet and 11 inches; thence West along the center of the partition wall between the stores now owned by said H. Manz, to the said Southeasterly line of the right-of-way of the Chicago and Northwestern Railway Company; thence Northeasterly along said right-of-way to the place of beginning, it being the North part of Lot 1 of Block 1 of Putnam and White's Addition to the Village of Oakfield, Wisconsin.

ALSO: The South 35 feet of Lot Number 1, Block Number 1, of Putnam and White's Addition to the Village of Oakfield.

Register's Office, Fond du Lac County, Wis.
Recorded this 20 day of JAN A. D. 19 75
at 8 O'clock A M. in Vol. 717
of Records on page 382
George H. Ottery Register of Deeds

FEE
77.25(5)
EXEMPT

IN WITNESS WHEREOF, the said grantor has hereunto set her hand and seal this 2nd day of January, A. D., 19 75

SIGNED AND SEALED IN PRESENCE OF

Marie Graf (SEAL)
Marie Graf

(SEAL)

(SEAL)

(SEAL)

STATE OF WISCONSIN,
Dodge County. } ss.

Personally came before me, this 2nd day of January, A. D., 19 75

the above named Marie Graf, an unmarried person, in her own right and as sole residuary legatee of the Edward G. Graf Estate

to me known to be the person who executed the foregoing instrument and acknowledged the same.

John J. Nugent
Notary Public Dodge County, Wis.
My Commission (Expires) (Is) Permanent.

NOTARY SEAL

This instrument drafted by
Nugent & Nugent - Attys.

STATE OF WISCONSIN, CIRCUIT COURT, FOND DU LAC COUNTY -PROBATE-

IN THE MATTER OF THE ESTATE OF

HAZEL L. UTTENDORFER

DOMICILIARY LETTERS

File No. 94-IN-171

To: Marie L. Barbeau
Name(s)

The above named person died, domiciled in Fond du Lac County, Wisconsin, on September 2, 1994.
Date

You have been appointed personal representative and have fully qualified.

THEREFORE, these Letters are issued to you, and you are required to administer this estate according to law.

BY THE COURT:

JOAN WEISER
Deputy Probate Registrar
October 19, 1994
Date

THIS DOCUMENT IS A FULL, TRUE & CORRECT COPY OF THE ORIGINAL ON FILE & OF RECORD IN MY OFFICE & HAS BEEN COMPARED BY ME.
ATTEST: October 19, 1994

PROBATE REGISTRAR
FOND DU LAC COUNTY COURT,
STATE OF WISCONSIN IN AND FOR
FOND DU LAC COUNTY.

DEPUTY PROBATE REGISTRAR

THESE LETTERS ARE STILL IN FULL FORCE AND EFFECT

PR-1303, 6/85 - (11 INF) DOMICILIARY LETTERS (INF. ADM.) s.865.08, Wisconsin Statutes

Stock No. 25426

AKFIELD

WEST MAIN ST.

BUTLER ST.

CENTER ST.

MAIN ST.

SPRING ST.

DUNN ST.

PUTNAM ST.

HUBBARD ST.

WHITE & HUBBARD'S ADD'N

WHITE'S ADD'N

REPLAT

GROVE

SECOND

8B

8

9

10

8905+91.2

8910+36 ℄ Crossing

8911+02 P.S. Trk. #1

8912+08 ℄ Steel Tank 50,000 Gal.

8914+75 ℄ Crossing

8917+53 Br. No. 289 - 4 x 38' S.B.C.

8925+27.7 P.S. Trk. #2.

8928+05 ℄ Cattle Gd

8928+44 ℄ Br. No. 290 - 3½ x 30' S.B.C.

8930

Wild Goose Trail

8939+35.3 P.C. 1° C.L.

8940

Δ - 8°05'

8944+75 Br. No. 291 - 28'-0" D.P.G.

8945+03.4

8947+46.6 P.T.

8945+2

8924.03

8922+52

8908+21

Cultivated

20.0

20

30

C. T. R. R.

1" = 400'

CADASTRAL LOCATION:
NW 1/4 OF 1/4 [illegible]
FOND DU LAC COUNTY
OAKFIELD, WI

RESOURCE:
OAKFIELD 7.5' QUADRANGLE
NE/4 WAUPUN 15' QUAD., 1974
U.S. GEOLOGICAL SURVEY

113-02 FIGURE: 1	Site Location OAKFIELD STANDARD STATION OAKFIELD, WI	ENGEL & ASSOCIATES, INC. N4737 Highway 175 S Fond du Lac, WI 54937 414-929-9279 Fax 414-929-8754	OAKFIELD Revision History CWM 6-28-95

N

SCALE

15' 0 15' 30'

1" = 30'

LEGEND

MW-B1	Monitoring Well	GP-1 ⊖	GeoProbe/
RW-1	Recovery Well	SB-1 ⊖	Soil Borings
AS-3 ■ VE-2 ■	Air Intake or Vapor Extraction Well	◇	Private Water Supply Well
	Building	MH ○	Manhole
BM	Benchmark	PK-PP •	PK Nail in Power Pole
	Cross Section	CB	Survey Point / Catch Basin
UST	Underground Storage Tank		
SA	Sanitary Line		
ST	Storm Sewer		
W	Water Line		
G	Gas Line		
OE	Overhead Electric Line		
OT	Overhead Telephone Line		

SHED

SLOPE

Bike Trail (former C &NW Railroad)

SLOPE

FEED MILL

FEED MILL GRAINERY

FEED MILL OFFICE

ATT LINE

Service Station

MW-B8 C

B-9

MW-B11 A'

B-12

B-6A

B-6

MW-B2

YZ-B2

TB-15

A MW-B4 B

B-1

TB-16

B-3

RS-1

B-7

SIDEWALK

W

SAN

MH

Sidewalk

FH

G

G

CB

FP

MW-B5 C'

MW-B10

MW-B14 B'

SA

SA

BM = 100.00 FH

MAIN STREET

ST

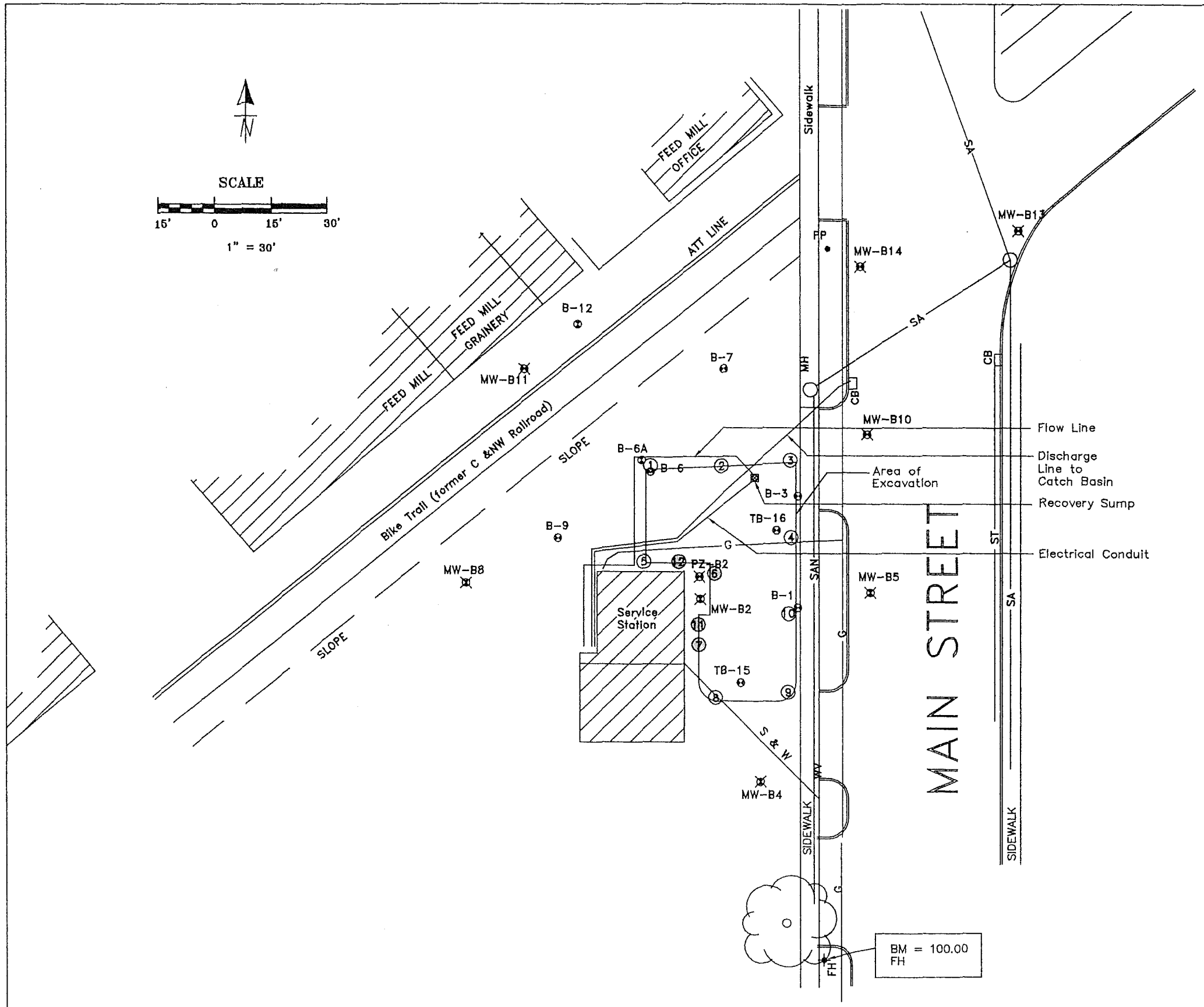
CB

SIDEWALK

SA

MW-B12

FIGURE B	113-02	Site Plan Map Oakfield Standard Oakfield, Wisconsin	ENGEL & ASSOCIATES, INC. N4737 HIGHWAY 175 S. FOND DU LAC, WI 54937 920-929-9279 FAX: 920-929-8754	FILE REFERENCE: oakst-plot1 PRINTED: DDS 8/98



ENGEL & ASSOCIATES, INC.
N4737 HIGHWAY 175 S.
FOND DU LAC, WI 54937
920-929-9279 FAX: 920-929-8754

FILE REFERENCE: excav-2
PREPARED: DDS 11/98

Area of Excavation and Sample Locations
Oakfield Standard
Oakfield, Wisconsin

113-02

FIGURE
G

HORIZONTAL
SCALE

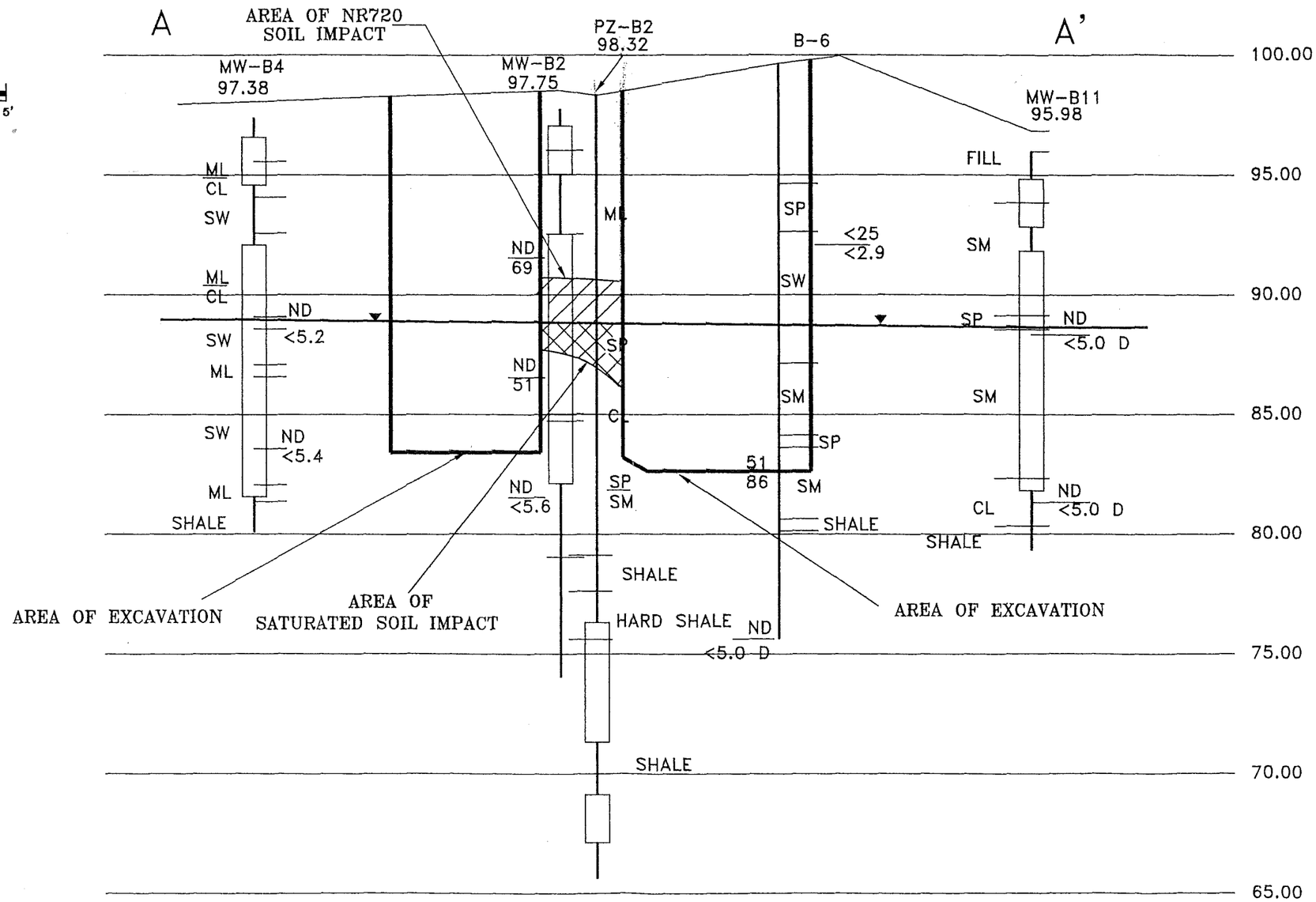
10' 0 10' 20'

1" = 20'

VERTICAL
SCALE

2.5' 0 2.5' 5'

1" = 5'



MONITORING
WELL DETAIL

BENTONITE
SEAL

WELL
SCREEN

Benzene, ppb
GRO, ppm

Jan. 12, 1996
Groundwater Level

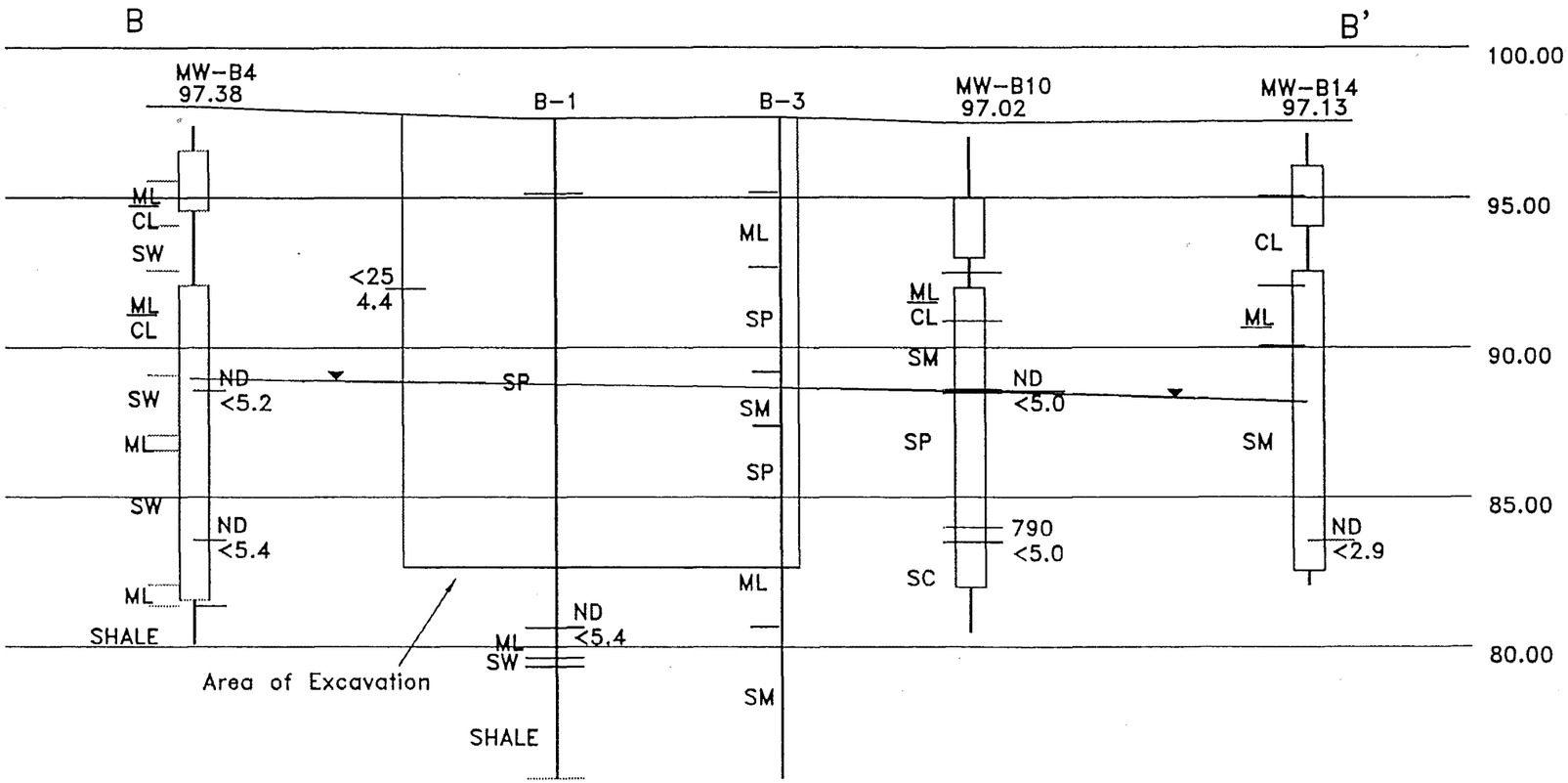
ENGEL & ASSOCIATES, INC.
N4737 HIGHWAY 175 S.
FOND DU LAC, WI 54937
920-929-9279 FAX: 920-929-8754

FILE REFERENCE: posts-n1
DRAWN: DDS 11/98

Postremedial Cross Section
South-North #1
Oakfield Standard
Oakfield, Wisconsin

113-02

FIGURE
H1



No soil contamination >NR 720 RCLs remains

HORIZONTAL SCALE
10' 0 10' 20'
1" = 20'

VERTICAL SCALE
2.5' 0 2.5' 5'
1" = 5'

Benzene, ppb
GRO, ppm

Jan. 12, 1996
Groundwater Level

Revision History		
T.H.H.	12-1-95	
T.R.	2-24-96	
T.R.	4-11-96	

postNs-2

ENGEL & ASSOCIATES, INC.
N4737 HIGHWAY 175 S
FOND DU LAC, WI 54937
414-929-9279 FAX: 414-929-8754

Post Remedial Cross Section
South-North #2

Oakfield Standard
Oakfield, WI

113-02

H2

HORIZONTAL SCALE

10' 0 10' 20'

1" = 20'

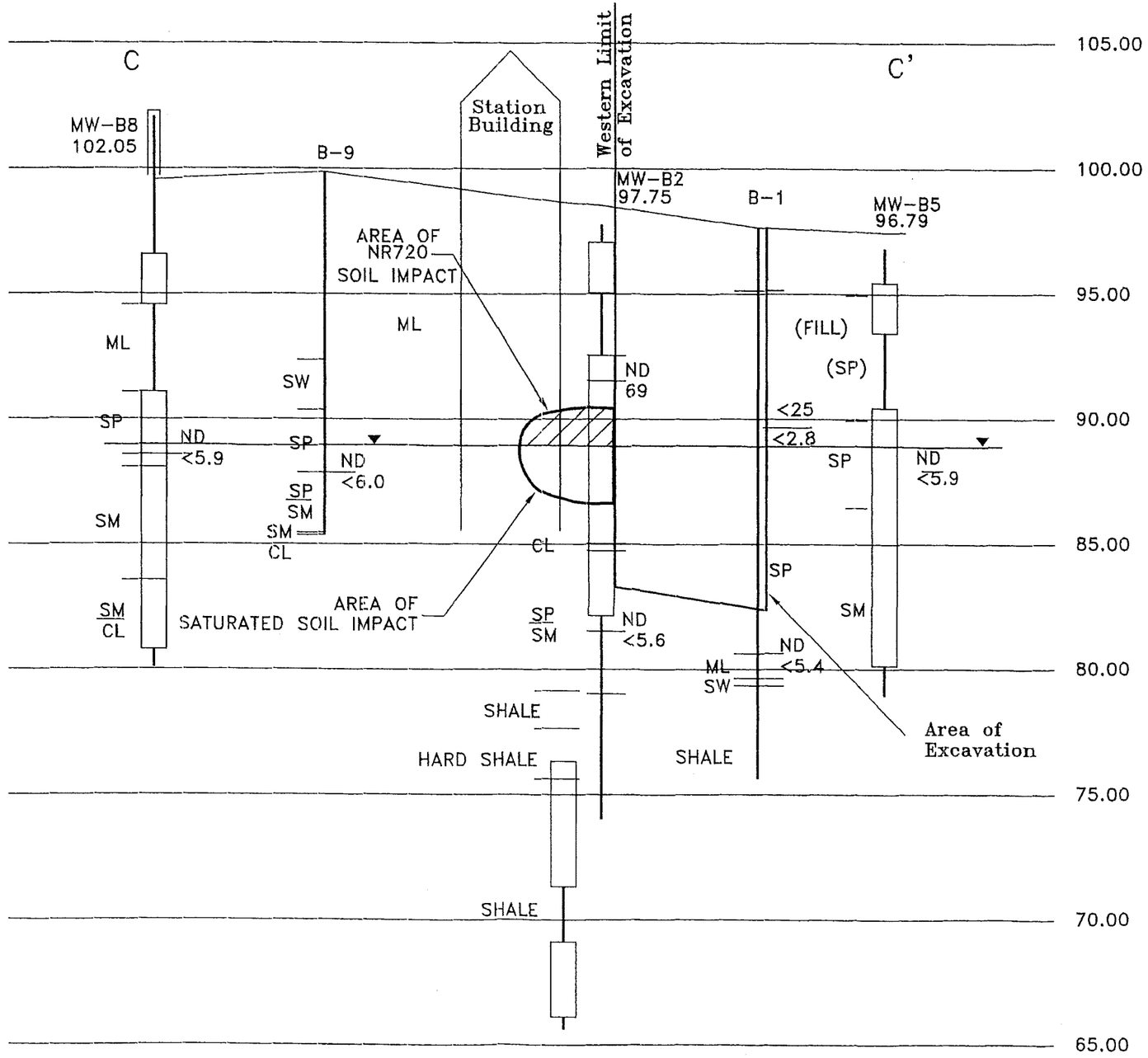
VERTICAL SCALE

2.5' 0 2.5' 5'

1" = 5'

Benzene, ppb
GRO, ppm

Jan. 12, 1996
Groundwater Level



ENGEL & ASSOCIATES, INC.
N4737 HIGHWAY 175 S.
POND DU LAC, WI 54937
920-929-9279 FAX: 920-929-8754

FILE REFERENCE: postw-e1.dwg
DRAWN: DDS 11/98

Postexcavation Cross Section
West-East # 1
Oakfield Standard
Oakfield, Wisconsin

113-02

FIGURE
H3

N

SCALE

15' 0 15' 30'

1" = 30'

LEGEND

- MW-B1 — Monitoring Well
- RW-1 — Recovery Well
- AI-3 / VE-2 — Air Intake or Vapor Extraction Well
- GP-1 — GeoProbe/ SB-1 — Soil Borings
- Private Water Supply Well
- Building
- Benchmark
- Cross Section
- UST — Underground Storage Tank
- MH — Manhole
- PK-PP — PK Nail in Power Pole
- Survey Point
- CB — Catch Basin
- SA — Sanitary Line
- ST — Storm Sewer
- W — Water Line
- G — Gas Line
- OE — Overhead Electric Line
- OT — Overhead Telephone Line

FEED MILL OFFICE

FEED MILL GRAINERY

FEED MILL

SHED

ATT LINE

Bike Trail (former C &NW Railroad)

SLOPE

SLOPE

MW-B11

MW-B8

Sidewalk

FP

MW-B14

MW-B13

SA

MH

CB

CB

MW-B10

RS-1

G

PZ-B2

MW-B2

Service Station

SAN

MW-B5

G

ST

SA

S & W

MW-B4

W

SIDEWALK

SIDEWALK

G

MAIN STREET

BM = 100.00
FH

FH

= NR 140.10 Preventive Action Exceedance

= NR 140.10 Enforcement Standard Exceedance

ENGEL & ASSOCIATES, INC.
N4737 HIGHWAY 175 S.
FOND DU LAC, WI 54937
920-929-9279 FAX: 920-929-8754

FILE REFERENCE oakst-plot1

DRAWN DDS 8/98

Groundwater Sample Locations

Oakfield Standard
Oakfield, Wisconsin

113-02

FIGURE
J

N

SCALE

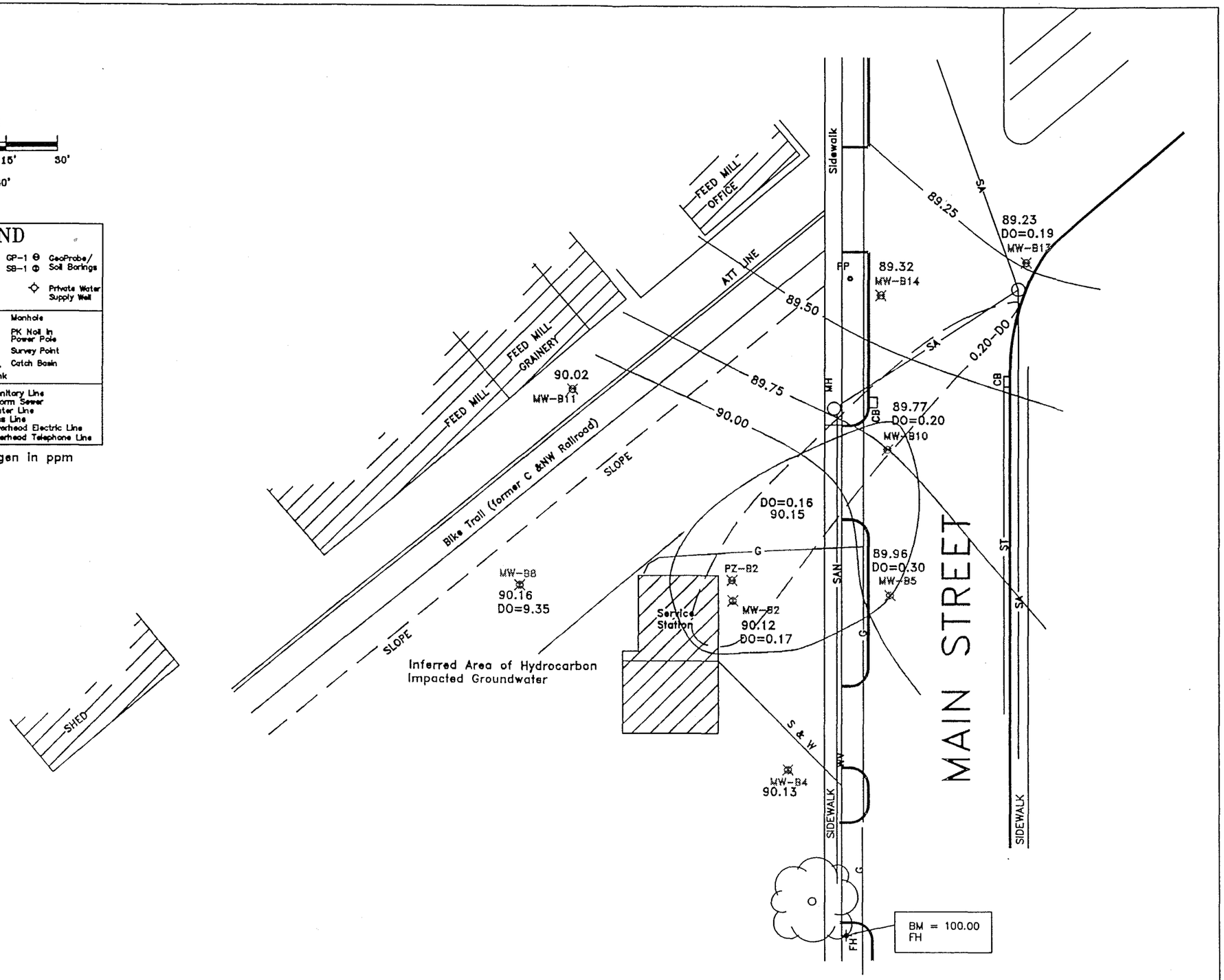
15' 0 15' 30'

1" = 30'

LEGEND

- MW-B1 — Monitoring Well
- RW-1 — Recovery Well
- AI-3 / VE-2 — Air Intake or Vapor Extraction Well
- GP-1 — GeoProbe/
- SB-1 — Soil Borings
- Private Water Supply Well
- Building
- MH — Manhole
- PK-PP — PK Nail in Power Pole
- BM — Benchmark
- Survey Point
- Cross Section
- CB — Catch Basin
- UST — Underground Storage Tank
- SA — Sanitary Line
- ST — Storm Sewer
- W — Water Line
- G — Gas Line
- OE — Overhead Electric Line
- OT — Overhead Telephone Line

DO= Dissolved Oxygen in ppm



ENGEL & ASSOCIATES, INC.
N4737 HIGHWAY 175 S.
FOND DU LAC, WI 54937
920-929-0279 FAX: 920-929-8764

FILE REFERENCE: oakst-plot1

PRINTED: DDS 8/98

Groundwater Contour Map (May 20, 1998)
Oakfield Standard
Oakfield, Wisconsin

113-02

FIGURE

K

Table F

OVEREXCAVATION SOIL SAMPLE RESULTS
OAKFIELD STANDARD STATION

Sample ID	Field ID #	Sample Depth	PID Reading	Parameter GRO	Benzene	Ethylbenzene	Toluene	Xylenes*	MTBE
North Sidewall, NW	1	8'	0	<2.9	<25	<25	<25	<25	<25
North Sidewall, Center	2	8'	0	<2.7	<25	<25	<25	<25	<25
North Sidewall, NE	3	8'	0	<3	<25	<25	<25	<25	<25
East Sidewall, NE	4	8'	0	<2.6	<25	<25	<25	<25	<25
East Sidewall, SE	10	8'	0	<2.8	<25	<25	<25	<25	<25
West Sidewall, NW	5	8'	17	29	<25	120	<25	1510	<25
West Sidewall, SW	7	8'	1782	**2100**	<630	**13000**	<630	**70000**	<630
West Sidewall	11	12'	51	20	**920**	**3000**	920	**7200**	<25
South Sidewall, SW	6	8'	170	94	**220**	**5200**	**9200**	**21200**	110
South Sidewall,	8	8'	7	11	<25	<25	<25	187	<25
South Sidewall, SE	9	8'	0	4.4	<25	<25	<25	56	<25
South Sidewall	12	12'	56	64	<25	**12000**	**3300**	**9380**	94
Contaminant Confirmation - C1		NA	1530	**750**	**640**	**25000**	**16000**	**65000**	710
Contaminant Confirmation - C2		NA	1380	**1000**	**680**	**20000**	**13000**	**105000**	<310
Contaminant Confirmation - C3		NA	702	**2900**	<630	**23000**	<630	**73200**	<630
NR 720 Generic Soil RCLs				100	5.5	2900	1500	4100	NS

Notes: PID (photoionization detector) readings reported in instrument units
GRO concentrations reported in mg/kg; all other parameters reported in ug/kg.
NA = not applicable
NS = no current standard exists
***Bold** indicates exceedance of NR 720 Generic Soil RCLs*

Table I

Groundwater Quality Data
Oakfield Standard Station

Well ID	Sample Date	Static Water Level	Benzene	Ethylbenzene	Toluene	Xylenes*	MTBE	Naphthalene	1,2 DCA
MW-B2	8/9/95	89.22	**660**	**2500**	<1	**10800**	<1	**220**	<1
MW-B2	11/6/96	87.64	**270**	**880**	**700**	**6200**	<1.6	**250**	<2.4
	during remediation								
MW-B2	07/11/97	89.07	**41**	60	36	*250*	<0.53	*11*	<0.24
	post remediation								
MW-B2	02/11/98	88.10	*0.97*	2.9	0.7	3.2	<0.16	0.58	NS
MW-B2	05/20/98	90.18	**33**	*140*	40	**1100**	<0.80	*27*	NS
MW-B2	08/27/98	88.84	**37**	*330*	50	*440*	<3.2	**60**	NS
MW-B4	8/9/95	89.25	<1	<1	<1	<1	<1	<3	<1
MW-B4	11/5/96	88.67	<1.6	<1.9	<1.7	<3.9	<1.6	NS	NS
	during remediation								
MW-B4	07/11/97	89.10	<0.41	<0.23	<0.28	<0.51	<0.53	<0.66	<0.24
	post remediation								
MW-B4	08/27/98	88.83	<0.13	<0.22	<0.20	<0.23	<0.16	<0.46	NS
MW-B5	8/9/95	88.83	<1	<1	<1	<1	<1	<3	*2*
MW-B5	11/5/96	88.38	<1.6	<1.9	<1.7	<3.9	<1.6	NS	NS
	during remediation								
MW-B5	07/11/97	88.93	<0.41	<0.23	<0.28	<0.51	<0.53	<0.66	*0.76*
	post remediation								
MW-B5	05/20/98	89.96	<0.10	<0.25	<0.10	<0.25	<0.25	<0.10	*1.7*
MW-B5	08/27/98	88.64	<0.31	<0.38	<0.39	<1.1	<0.14	<0.35	*1.5*
MW-B8	8/9/95	89.23	<1	5.6	<1	24.9	<1	4.4	<1
MW-B8	11/5/96	88.57	<1.6	<1.9	<1.7	<3.9	<1.6	NS	NS
	during remediation								
MW-B8	07/11/97	89.16	<0.41	<0.23	<0.28	<0.51	<0.53	<0.66	<0.24
MW-B10	11/10/95	89.87	**910**	<1	1.2	60.4	<1	<3	<1
MW-B10	11/5/96	88.17	**64**	<1.9	<1.7	3.5	<1.6	<3.8	<2.4
	during remediation								
MW-B10	07/11/97	88.79	<0.41	<0.23	<0.28	<0.51	<0.53	<0.66	<0.24
	post remediation								
MW-B10	02/11/98	88.13	0.2	<0.22	0.68	1.6	<0.16	<0.46	NS
MW-B10	05/20/98	89.77	**37**	<0.22	<0.20	0.75	<0.16	<1.1	NS
MW-B10	08/27/98	88.52	**7.4**	2.3	1.7	*152*	<0.14	<0.35	<0.20
MW-B10	11/11/98	88.46	*2.8*	<0.25	<0.10	7	<0.25	<0.10	NS
MW-B10	02/10/99	89.00	<0.26	<0.24	<0.21	<0.97	<0.22	<0.89	NS
MW-B11	11/10/95	90.76	<1	<1	<1	<1	<1	<3	<1
MW-B11	11/5/96	88.47	<1.6	<1.9	<1.7	<3.9	<1.6	NS	NS
	during remediation								
MW-B11	07/11/97	89.07	<0.41	<0.23	<0.28	<0.51	<0.53	<0.66	<0.24
NR 140.10 Preventive Action Limit (PAL)			0.5	140	68.6	124	12	8	0.5
NR 140.10 Enforcement Standard (ES)			5	700	343	620	60	40	5

Explanation: *NS: Not sampled for this parameter*
**: xylenes reported as total of o-, p-, and m-xylenes* *results reported in ug/l (parts per billion)*
Bold indicates exceedance of NR 140.10 ES, italics indicates exceedance of PAL

Table I, Continued

Groundwater Quality Data
Oakfield Standard Station

Well ID	Sample Date	Static Water Level	Benzene	Ethylbenzene	Toluene	Xylenes*	MTBE	Naphthalene	1,2 DCA
MW-B13	1/12/96	87.42	<1	<1	<1	<1	<1	<3	<1
MW-B13	11/5/96 during remediation	87.04	<1.6	<1.9	<1.7	<3.9	<1.6	<3.8	<2.4
MW-B13	07/11/97 post remediation	87.70	<0.41	<0.23	<0.28	<0.51	<0.53	<0.66	<0.24
MW-B13	08/27/98	87.27	<0.13	<0.22	<0.20	<0.23	<0.16	<0.46	NS
MW-B14	1/12/96	88.35	<1	<1	<1	<1	<1	<3	<1
MW-B14	11/5/96 during remediation	87.90	<1.6	<1.9	<1.7	<3.9	<1.6	NS	NS
MW-B14	07/11/97 post remediation	88.51	<0.41	<0.23	<0.28	<0.51	<0.53	<0.66	<0.24
MW-B14	08/27/98	88.10	<0.13	<0.22	<0.20	<0.23	<0.16	<0.46	NS
PZ-B2	11/10/95	89.84	**50**	*430*	**1100**	**1670**	<1	*22*	<1
PZ-B2	12/21/95	88.42	**6.5**	61	*29*	*210*	1.4	<3	<1
PZ-B2	11/5/96 during remediation	88.07	<1.6	14	<1.7	6.7	<1.6	<3.8	<2.4
PZ-B2	07/11/97 post remediation	88.71	*1.9*	21	0.35	4.17	<0.53	1.2	<0.24
PZ-B2	02/11/98	88.15	*0.67*	<0.22	<0.20	<0.23	<0.16	<0.46	NS
PZ-B2	05/20/98	89.14	*1.6*	12	0.32	3.1	<0.16	1.2	NS
PZ-B2	08/27/98	88.04	*0.64*	6.3	<0.20	0.82	<0.16	0.51	NS
RS-1	04/18/97	90.02	**140**	140	**450**	**1410**	3.1	NS	NS
RS-1	06/13/97		**48**	*300*	*280*	**1970**	<2.6	**67**	<1.2
RS-1	06/19/97		**310**	*490*	**610**	**2420**	<2.6	**83**	NS
RS-1	08/29/97		**31**	*500*	*340*	**2830**	<5.3	**82**	<2.4
RS-1	09/15/97		**280**	*370*	**390**	**1250**	<1.0	**73**	NS
RS-1	11/06/97	83.31	**220**	**1000**	**550**	**5600**	<13	**160**	<6.0
RS-1	12/16/97 post remediation		**140**	*410*	*160*	**2950**	4.3	**110**	NS
RS-1	02/11/98	88.46	**77**	110	21	**1600**	<0.80	*39*	NS
RS-1	05/20/98	90.15	**10**	67	9.3	*610*	<1.6	*39*	NS
RS-1	08/27/98	87.80	*2.0*	33	1.4	*130*	<0.80	*26*	NS
NR 140.10 Preventive Action Limit (PAL)			0.5	140	68.6	124	12	8	0.5
NR 140.10 Enforcement Standard (ES)			5	700	343	620	60	40	5

Explanation: *NS: Not sampled for this parameter*
**: xylenes reported as total of o-, p-, and m-xylenes* *results reported in ug/l (parts per billion)*
Bold indicates exceedance of NR 140.10 ES, italics indicates exceedance of PAL

WISCONSIN
DEPT. OF NATURAL RESOURCES

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Tommy G. Thompson, Governor
George E. Meyer, Secretary
Ron Kazmierczak, Regional Director

625 E. CTY RD "Y", STE. 700
Oshkosh, Wisconsin 54901-9731
Telephone 920-424-7896
FAX 920-424-4404

January 24, 2000

Marie Barbeau
Hazel Uttendorfer Estate
P.O. Box 236
Oakfield, WI 53065

Re: Monitoring Wells – Uttendorfer Estate Lust Investigation Site

Dear Ms. Barbeau:

This letter is to advise you that the Department of Natural Resources request the use of monitoring wells MW-B8 and MW-B11 only, in order to continue monitoring for agricultural chemical contamination found on Department of Natural Resources Property – Wild Goose Bike Trail as required by the Department of Agriculture, Trade and Consumer Protection. This letter releases you from the responsibility for maintenance and eventual abandonment of these two monitoring wells. The other monitoring wells are your responsibility to abandon. This will allow the closing of the LUST investigation case so you can be reimbursed for the cost of the LUST clean up.

The Department of Natural Resources will abandon MW-B8 and MW-B11upon satisfactory clean up of the agricultural chemical contamination on the Wild Goose Bike Trail. If you have any questions regarding this issue please feel free to call me at (920) 424-7896.

Thank You.

Sincerely,

Mark S. Randall

Mark S. Randall
Wildlife Biologist - DNR
Fond du Lac County

Cc: Alan MacKenzie – DATCP
John Sager – DNR
Amy Haac – Engle and Associates

Appendix C: Site Photographic Log

Photographic Log

Client Name:	Site Location:	Project No.:
Wisconsin Department of Transportation	CTH D, CTH Y to N. School St. Oakfield, Fond du Lac County, WI	WisDOT: 3876-05-00 TRC: 347145.0000.0000

Photo No.	Date
1	09/10/2019

Description
Looking northwest at 260 N. Main St.

Photo No.	Date
2	09/10/2019

Description
Looking north at the location of soil borings GP-02, GP-03, and GP-04 near 260 N. Main St. On-Site is set up on boring GP-04.

Photographic Log

Client Name:	Site Location:	Project No.:
Wisconsin Department of Transportation	CTH D, CTH Y to N. School St. Oakfield, Fond du Lac County, WI	WisDOT: 3876-05-00 TRC: 347145.0000.0000

Photo No.	Date
3	09/10/2019

Description
Looking southeast at the intersection of CTH D (E. Church St.) and N. 1st St.

Photo No.	Date
4	09/10/2019

Description
Looking northwest at the intersection of CTH D (E. Church St.) and N. 1st St. On-Site is set up on boring GP-07.

Photographic Log

Client Name:	Site Location:	Project No.:
Wisconsin Department of Transportation	CTH D, CTH Y to N. School St. Oakfield, Fond du Lac County, WI	WisDOT: 3876-05-00 TRC: 347145.0000.0000

Photo No.	Date
5	09/10/2019

Description
Investigative-derived waste.

Appendix D: Soil Boring Logs/WDNR Borehole Filling and Sealing Forms

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
CTHD Oakfield (WisDOT ID #3876-05-00)		GP-01

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Gage Kapugi On-Site Environmental	9/10/2019	9/10/2019	

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.1 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 717,104 N, 188,284 E S/C/N
SE 1/4 of NE 1/4 of Section 14, T 14 N, R 16 E
Lat 43° 41' 8.426"
Long 88° 32' 50.854"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Fond du Lac	20	Oakfield

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	60		0	**CONCRETE**										
			1	**SILTY LEAN CLAY (CL-ML),** large gravel mixed in, low plasticity, dark brown, no odor.	CL-ML									
			2	**FAT CLAY (CH),** high plasticity, medium brown, uniform, no streaks, no odor.				< 1						
			3		CH									
			4					< 1						
				SANDY LEAN CLAY (CL), clayey sand with gravel, fine sand, medium brown, no odor, wet, no streaks.	CL									
2 GP	60		5	**SILTY LEAN CLAY (CL-ML),** silt with gravel, some large gravel mixed in, low plasticity, medium brown, no odor.										
			6					< 1						
			7		CL-ML									
			8											
			9	Same as above, small gravel pieces.				< 1						
				SILT WITH GRAVEL (ML), dark gray, no odor.	ML									
			10	**End of boring at 10 feet.**										

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

Signature	Firm	Tel:
	TRC Environmental	Fax:

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
CTHD Oakfield (WisDOT ID #3876-05-00)		GP-02

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Gage Kapugi On-Site Environmental	9/10/2019	9/10/2019	

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.1 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 717,098 N, 188,271 E S/C/N
SW 1/4 of NE 1/4 of Section 14, T 14 N, R 16 E
Lat 43° 41' 8"
Long 88° 32' 51.133"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Fond du Lac	20	Oakfield

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	60		0	**CONCRETE/ASPHALT**										
			1	**LEAN CLAY WITH GRAVEL (CL),** medium brown, moist.				< 1						
			2											
			3											
			4					< 1						
2 GP	60		5	Same as above.	CL									
			6											
			7	Same as above, wet (water table)				< 1						
			8											
			9					< 1						
			10	**End of boring at 10 feet.**										

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

Signature	Firm	Tel:
	TRC Environmental	Fax:

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
CTHD Oakfield (WisDOT ID #3876-05-00)		GP-03

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Gage Kapugi On-Site Environmental	9/10/2019	9/10/2019	

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.1 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 717,097 N, 188,282 E S/C/N
SW 1/4 of NE 1/4 of Section 14, T 14 N, R 16 E
Lat 43° 41' 8.359"
Long 88° 32' 51.15"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Fond du Lac	20	Oakfield

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	60 36		0	**ASPHALT,** gravel.										
			1	**FAT CLAY (CH),** dark brown, no odor.	CH			< 1						
			2	**LEAN CLAY WITH GRAVEL (CL),** well graded gravel, medium brown, no odor.	CL			< 1						
			3											
			4											
			5	**SILTY SAND (SM),** dark gray, wet.	SM									
2 GP	60 14			**LEAN CLAY (CL),** dark gray with some red.	CL									At 5 feet, driller states he felt that he hit a rock. When he pulled the sleeve out most fell down.
			6	Same as above, medium brown. **POORLY GRADED SAND (SP),** brown, reddish, black.	SP			< 1						
			7											
			8											
			9					< 1						
			10	**End of boring at 10 feet.**										

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

Signature	Firm	Tel:
	TRC Environmental	Fax:

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
CTHD Oakfield (WisDOT ID #3876-05-00)		GP-04

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Gage Kapugi On-Site Environmental	9/10/2019	9/10/2019	

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.1 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 717,096 N, 188,291 E S/C/N
SW 1/4 of NE 1/4 of Section 14, T 14 N, R 16 E

Lat 43° 41' 8.66"
Long 88° 32' 51.171"

Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Fond du Lac	20	Oakfield

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	60 / 26		0–1	**ASPHALT,** gravel.										
			1–2	**GRAVEL,** backfill, dry. (Fill)	GW			< 1						
			2–3											
			3–4					< 1						
2 GP	60 / 49		4–5	Same as above, wet.										
			5–6	**SILTY LEAN CLAY WITH SAND (CL),** grayish brown, no odor.	CL									
			6–7	**SILTY SAND (SM),** brown, no odor, dry. Same as above, wet.	SM			< 1						
			7–8	**SILT (ML),** dark gray with some black streaks, no odor. **SILTY SAND (SM),** brown/gray, no odor, wet.	ML / SM									
			8–9		SM			< 1						
			9–10											
			10	**End of boring at 10 feet.**										

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

Signature	Firm	Tel: / Fax:
	TRC Environmental	

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
CTHD Oakfield (WisDOT ID #3876-05-00)		GP-05

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Gage Kapugi On-Site Environmental	9/10/2019	9/10/2019	

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.1 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 717,186 N, 188,340 E S/C/N
SE 1/4 of NE 1/4 of Section 14, T 14 N, R 16 E
Lat 43° 41' 10.213"
Long 88° 32' 47.134"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Fond du Lac	20	Oakfield

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	60		0	**ASPHALT**										
				SILTY SAND WITH GRAVEL (SM), no odor, dry.	SM									
			1	**CLAYEY SAND (SC),** non-cohesive, black, no odor, dry.	SC									
				LEAN CLAY (CL), black/gray. Same as above, medium brown with some yellow and red streaks, stiff.	CL			< 1						p.p. = 2.0 tsf
			2											
			3	**POORLY GRADED SAND WITH SILT AND GRAVEL (SP-SM),** medium brown, no odor.										
			4					< 1						
2 GP	60		5	Same as above, medium brown with some yellow and read grains, dry.	SP-SM									
			6											
								< 1						
			7											
			8	**LEAN CLAY (CL),** dark gray/greenish, no odor.										
			9		CL									
								2.5						
			10	**End of boring at 10 feet.**										

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

Signature	Firm	Tel: / Fax:
	TRC Environmental	

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
CTHD Oakfield (WisDOT ID #3876-05-00)		GP-06

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Gage Kapugi On-Site Environmental	9/10/2019	9/10/2019	

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.1 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 717,182 N, 188,340 E S/C/N
SE 1/4 of NE 1/4 of Section 14, T 14 N, R 16 E
Lat 43° 41' 10.207"
Long 88° 32' 47.301"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Fond du Lac	20	Oakfield

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	60		0	**ASPHALT,** gravel.										
			1	**LEAN CLAY (CL),** dark brown with some yellow streaks, stiff.	CL				2.0					
				SILTY SAND (SM), medium/light brown, no odor, dry.				< 1						
			2											
			3		SM									
			4					< 1						
2 GP	60		5	**SILTY SAND WITH GRAVEL (SM),** well graded gravel, some yellow and red gravel pieces, light brown, no odor, dry.										
			6		SM			< 1						
			7	**LEAN CLAY (CL),** light brown, dry, very stiff.					2.5					
				Same as above, medium gray, uniform in color and texture, possible staining, no odor, wet, stiff.										
			8		CL			35	3.0					
			9											
				Water level at 9.6 feet (measured with water level meter).										
			10	**End of boring at 10 feet.**										

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

Signature	Firm	Tel:
	TRC Environmental	Fax:

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
CTHD Oakfield (WisDOT ID #3876-05-00)		GP-07

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Gage Kapugi On-Site Environmental	9/10/2019	9/10/2019	

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.1 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 717,184 N, 188,344 E S/C/N
SE 1/4 of NE 1/4 of Section 14, T 14 N, R 16 E
Lat 43° 41' 10.331"
Long 88° 32' 47.236"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Fond du Lac	20	Oakfield

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	60		0	**ASPHALT,** gravel.										
			1	**FAT CLAY (CH),** dark brown with some black/yellow streaks, medium stiff to stiff.	CH			< 1	1.0					
			2	**SILTY SAND (SM),** light brown, no odor, dry.										
			3											
			4					< 1						
					SM									
2 GP	60		5	Same as above.										
			6					< 1						
			7	Same as above, but wet.										
			8	**POORLY GRADED SAND WITH GRAVEL (SP), medium brown with red and black gravel in it, wet.**										
			9		SP			4.5						
			10	**End of boring at 10 feet.**										

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

Signature	Firm	Tel:
	TRC Environmental	Fax:

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

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

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/2015)

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

☐ Verification Only of Fill and Seal

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Fond Du Lac	()	

Latitude / Longitude (see instructions): 43.68567 ° N, -88.54746 ° W
Format Code: ☒ DD ☐ DDM
Method Code: ☒ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
SE	NE	14	14	16 ☒ E ☐ W

or Gov't Lot #

Well Street Address: 260 North Main Street - WisDOT ROW

Well City, Village or Town	Well ZIP Code
Oakfield	53065

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil boring	

2. Facility / Owner Information

Facility Name: CTH D Oakfield (WisDOT ID #3876-05-00)
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: WisDOT - NE Region
Present Well Owner: WisDOT - NE Region
Mailing Address of Present Owner: 944 Vanderperren Way

City of Present Owner	State	ZIP Code
Green Bay	WI	54304-5344

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well ☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 09/10/2019

If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (Specify)

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)
10.0	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.1	

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain)

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	10.0	0.24 cubic feet	

6. Comments

GP-01

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
On-Site Environmental Services, Inc.		09/10/2019

Street or Route	Telephone Number
PO Box 280	(608) 837-8992

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Sun Prairie	WI	53590		9/10/19

DNR Use Only

Date Received	Noted By

Comments

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

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/2015)

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

☐ Verification Only of Fill and Seal

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Fond Du Lac	()	

Latitude / Longitude (see instructions): 43.68556 ° N, -88.54754 ° W
Format Code: ☒ DD ☐ DDM
Method Code: ☒ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼ SW	¼ NE	Section	Township	Range
or Gov't Lot #		14	14	16 ☒ E ☐ W

Well Street Address: 260 North Main Street - WisDOT ROW

Well City, Village or Town	Well ZIP Code
Oakfield	53065

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil boring	

2. Facility / Owner Information

Facility Name: CTH D Oakfield (WisDOT ID #3876-05-00)
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: WisDOT - NE Region
Present Well Owner: WisDOT - NE Region
Mailing Address of Present Owner: 944 Vanderperren Way

City of Present Owner	State	ZIP Code
Green Bay	WI	54304-5344

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well ☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 09/10/2019

If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (Specify)

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)
10.0	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.1	

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain)

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	10.0	0.24 cubic feet	

6. Comments

GP-02

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
On-Site Environmental Services, Inc.		09/10/2019

Street or Route	Telephone Number
PO Box 280	(608) 837-8992

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Sun Prairie	WI	53590		9/10/19

DNR Use Only

Date Received	Noted By

Comments:

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

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/2015)

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

☐ Verification Only of Fill and Seal

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Fond Du Lac	()	

Latitude / Longitude (see instructions): 43.68566 ° N, -88.54754 ° W
Format Code: ☒ DD ☐ DDM
Method Code: ☒ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼ SW	¼ NE	Section	Township	Range
or Gov't Lot #		14	14	16 ☒ E ☐ W

Well Street Address: 260 North Main Street - WisDOT ROW

Well City, Village or Town	Well ZIP Code
Oakfield	53065

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil boring	

2. Facility / Owner Information

Facility Name: CTH D Oakfield (WisDOT ID #3876-05-00)
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: WisDOT - NE Region
Present Well Owner: WisDOT - NE Region
Mailing Address of Present Owner: 944 Vanderperren Way

City of Present Owner	State	ZIP Code
Green Bay	WI	54304-5344

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well ☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 09/10/2019
If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (Specify)

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)
10.0	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.1	

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain)

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

Material	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	10.0	0.24 cubic feet	

6. Comments

GP-03

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
On-Site Environmental Services, Inc.		09/10/2019

Street or Route	Telephone Number
PO Box 280	(608) 837-8992

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Sun Prairie	WI	53590		9/10/19

DNR Use Only

Date Received	Noted By

Comments:

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

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/2015)

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

☐ Verification Only of Fill and Seal

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Fond Du Lac	()	

Latitude / Longitude (see instructions): 43.68574 ° N, -88.54755 ° W
Format Code: ☒ DD ☐ DDM
Method Code: ☒ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼ SW	¼ NE	Section	Township	Range
or Gov't Lot #		14	14	16 ☒ E ☐ W

Well Street Address: 260 North Main Street - WisDOT ROW

Well City, Village or Town	Well ZIP Code
Oakfield	53065

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil boring	

2. Facility / Owner Information

Facility Name: CTH D Oakfield (WisDOT ID #3876-05-00)
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: WisDOT - NE Region
Present Well Owner: WisDOT - NE Region
Mailing Address of Present Owner: 944 Vanderperren Way

City of Present Owner	State	ZIP Code
Green Bay	WI	54304-5344

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well ☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 09/10/2019

If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (Specify)

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)
10.0	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.1	

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain)

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	10.0	0.24 cubic feet	

6. Comments

GP-04

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
On-Site Environmental Services, Inc.		09/10/2019

Street or Route	Telephone Number
PO Box 280	(608) 837-8992

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Sun Prairie	WI	53590		9/10/19

DNR Use Only

Date Received	Noted By

Comments:

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

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/2015)

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

☐ Verification Only of Fill and Seal

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Fond Du Lac	()	

Latitude / Longitude (see instructions): 43.68617 ° N, -88.54643 ° W
Format Code: ☒ DD ☐ DDM
Method Code: ☒ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
SE	NE	14	14	16 ☒ E ☐ W

or Gov't Lot #

Well Street Address: 116 E Church Street Street - WisDOT ROW

Well City, Village or Town	Well ZIP Code
Oakfield	53065

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil boring	

2. Facility / Owner Information

Facility Name: CTH D Oakfield (WisDOT ID #3876-05-00)
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: WisDOT - NE Region
Present Well Owner: WisDOT - NE Region
Mailing Address of Present Owner: 944 Vanderperren Way

City of Present Owner	State	ZIP Code
Green Bay	WI	54304-5344

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well ☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 09/10/2019

If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (Specify)

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)
10.0	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.1	

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain)

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	10.0	0.24 cubic feet	

6. Comments

GP-05

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
On-Site Environmental Services, Inc.		09/10/2019

Street or Route	Telephone Number
PO Box 280	(608) 837-8992

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Sun Prairie	WI	53590		9/10/19

DNR Use Only

Date Received	Noted By

Comments:

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

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/2015)

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

☐ Verification Only of Fill and Seal

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Fond Du Lac	()	

Latitude / Longitude (see instructions)	Format Code	Method Code
43.68617 ° N -88.54647 ° W	☒ DD ☐ DDM	☒ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
SE	NE	14	14	16 ☒ E ☐ W

or Gov't Lot #

Well Street Address: 116 E Church Street Street - WisDOT ROW

Well City, Village or Town	Well ZIP Code
Oakfield	53065

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil boring	

2. Facility / Owner Information

Facility Name: CTH D Oakfield (WisDOT ID #3876-05-00)
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: WisDOT - NE Region
Present Well Owner: WisDOT - NE Region
Mailing Address of Present Owner: 944 Vanderperren Way

City of Present Owner	State	ZIP Code
Green Bay	WI	54304-5344

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well ☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 09/10/2019

If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (Specify)

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)
10.0	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.1	

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain)

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

Material	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	10.0	0.24 cubic feet	

6. Comments

GP-06

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
On-Site Environmental Services, Inc.		09/10/2019

Street or Route	Telephone Number
PO Box 280	(608) 837-8992

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Sun Prairie	WI	53590		9/10/19

DNR Use Only

Date Received	Noted By

Comments:

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

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/2015)

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

☐ Verification Only of Fill and Seal

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Fond Du Lac	()	

Latitude / Longitude (see instructions): 43.68620 ° N, -88.54645 ° W
Format Code: ☒ DD ☐ DDM
Method Code: ☒ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
SE	NE	14	14	16 ☒ E ☐ W

or Gov't Lot #

Well Street Address: 116 E Church Street Street - WisDOT ROW

Well City, Village or Town	Well ZIP Code
Oakfield	53065

Subdivision Name: | Lot #:

Reason For Removal From Service: Soil boring
WI Unique Well # of Replacement Well:

2. Facility / Owner Information

Facility Name: CTH D Oakfield (WisDOT ID #3876-05-00)
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: WisDOT - NE Region
Present Well Owner: WisDOT - NE Region
Mailing Address of Present Owner: 944 Vanderperren Way

City of Present Owner	State	ZIP Code
Green Bay	WI	54304-5344

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well ☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 09/10/2019
If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (Specify)

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)
10.0	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.1	

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain)

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	10.0	0.24 cubic feet	

6. Comments

GP-07

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
On-Site Environmental Services, Inc.		09/10/2019

Street or Route	Telephone Number
PO Box 280	(608) 837-8992

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Sun Prairie	WI	53590		9/10/19

DNR Use Only

Date Received	Noted By

Comments:

Appendix E: Waste Inventory Records

NON-HAZARDOUS WASTE INVENTORY RECORD

Wisconsin Department of Transportation
DT1229 6/2016 (For use with DT1208)

DTSD Region and Office Northeast - Green Bay		
WisDOT Project ID 3876-05-00	County Fond du Lac	Highway and Termini CTH D
Site Name Various Sites along CTH D corridor		Phase of Investigation 2.5
Consultant Company TRC Environmental		
Consultant Contact Liz Hoerning		
Contact (Area Code) Telephone Number 608-234-0987		
Contact Email Address lhoerning@trccompanies.com		
Consultant ID for this Site CTH D Fond du Lac County Phase 2.5		
Generation Date (m/d/yyyy) 9/10/2019		
Comments, special instructions for pickup or site access Buckets stored outside of Fond du Lac County Highway Department at 301 Dixie St., Fond du Lac, WI 54936.		

Waste Description – describe containers of similar size and contents in one row. Insert additional rows as needed.
Number and Label Each Container.

Container ID Number	**Container Size and Type**	**Estimated Volume of Waste**	**Source: Tank, Well, Boring**	**Contents: Soil, Water, Other (Describe)**
Example: 1, 4, 5, 6, 7, 18, 22, 23	Example: 30 gallon metal drum	Example: 8 drums x 30 gal = 240 gallons	Example: monitoring wells # MW3, MW4, and MW7	Example: wash water, alconox
1, 3	5 Gallon bucket	4 gallons	GP-01 through GP-07	Soil.
2	5 Gallon bucket	3 gallons	GP-06	Water

Total Number of Containers to be picked up: 3

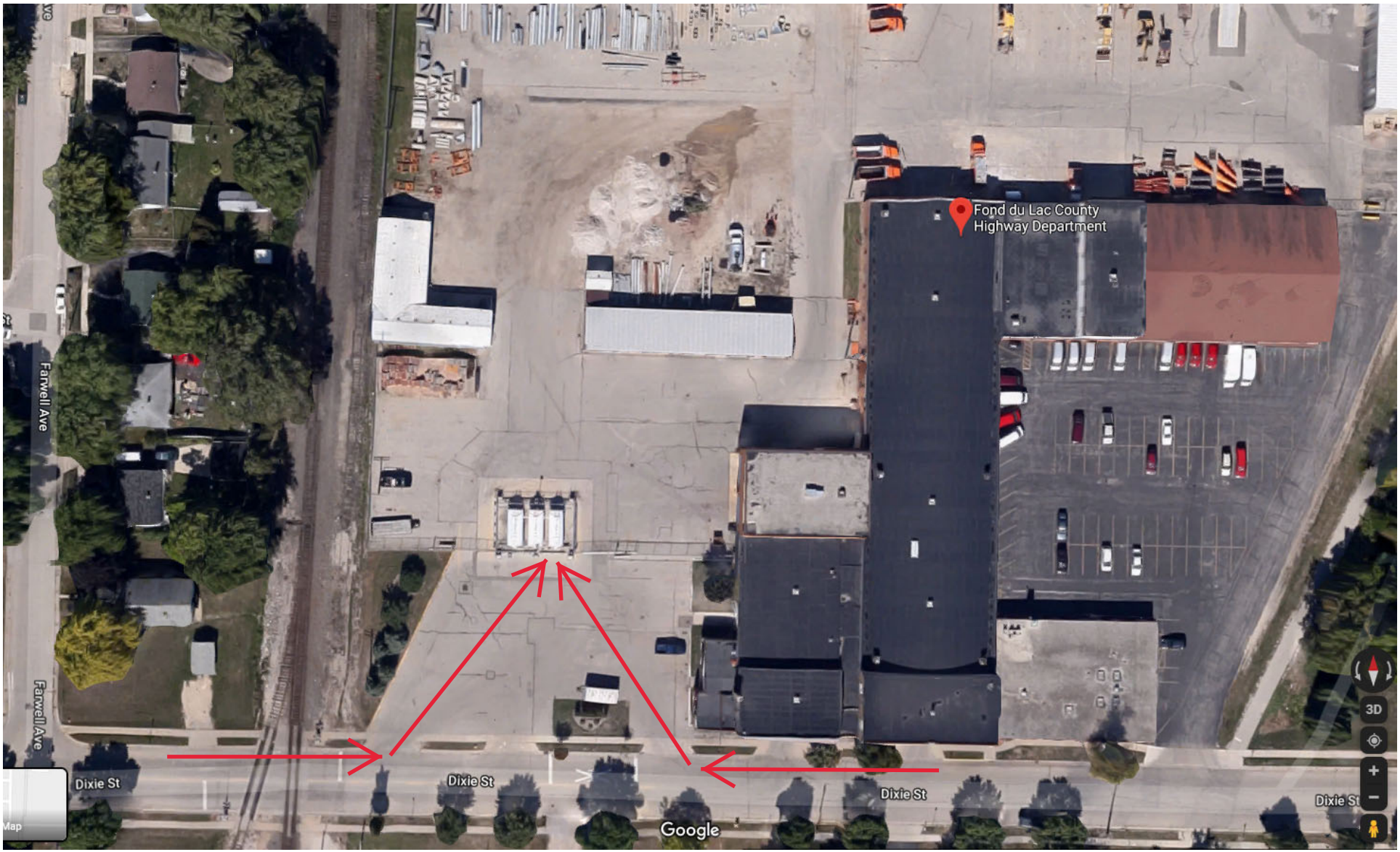
Container Location: Attach map or site sketch to Email

Analytical Results: Attach analytical results to Email

Email one copy of this form to each of the following:

- DOT Hazardous Materials Specialist
- Regional Environmental or Hazardous Materials Coordinator
- Hazardous Waste Contractor

Include a copy of this form as the final appendix in the report for this site.



Fond du Lac County Highway Department – 301 Dixie Street, Fond du Lac WI, 54936


TANK
#1
#2 Diesel
TANK
#2
Storage Location

Appendix F: Laboratory Analytical Reports

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

October 09, 2019

DAN HAAK
TRC - MADISON
708 HEARTLAND TRAIL
Madison, WI 53717

RE: Project: 347145 WISDOT-OAKFIELD PH 2.5
Pace Project No.: 40195172

Dear DAN HAAK:
Enclosed are the analytical results for sample(s) received by the laboratory on September 14, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Report revised to include additional analyses requested by TRC.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tod Noltemeyer

Tod Noltemeyer
tod.noltemeyer@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Tom Perkins, TRC Madison
Peggy Popp, TRC - Madison

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 347145 WISDOT-OAKFIELD PH 2.5
Pace Project No.: 40195172

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 347145 WISDOT-OAKFIELD PH 2.5
Pace Project No.: 40195172

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40195172001	**GP-01 (7.5-10' BGS)**	Solid	09/10/19 12:45	09/14/19 10:50
40195172002	**GP-02 (7.5-10' BGS)**	Solid	09/10/19 13:05	09/14/19 10:50
40195172003	**GP-03 (7.5-10' BGS)**	Solid	09/10/19 13:30	09/14/19 10:50
40195172004	**GP-04 (7.5-10' BGS)**	Solid	09/10/19 13:50	09/14/19 10:50
40195172005	**GP-05 (7.5-10' BGS)**	Solid	09/10/19 15:00	09/14/19 10:50
40195172006	**GP-06 (7.5-10' BGS)**	Solid	09/10/19 15:45	09/14/19 10:50
40195172007	**GP-07 (7.5-10' BGS)**	Solid	09/10/19 16:20	09/14/19 10:50
40195172008	**TW-04**	Water	09/10/19 14:00	09/14/19 10:50
40195172009	**TW-06**	Water	09/10/19 16:35	09/14/19 10:50
40195172010	**TRIP BLANK**	Water	09/10/19 00:00	09/14/19 10:50
40195172011	**GP-05 (7.5-10' BGS)**	Solid	09/10/19 15:00	09/14/19 10:50
40195172012	**GP-06 (7.5-10' BGS)**	Solid	09/10/19 15:45	09/14/19 10:50
40195172013	**GP-07 (7.5-10' BGS)**	Solid	09/10/19 16:20	09/14/19 10:50

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: 347145 WISDOT-OAKFIELD PH 2.5
Pace Project No.: 40195172

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40195172001	**GP-01 (7.5-10' BGS)**	EPA 8260	SMT	12	PASI-G
		ASTM D2974-87	TEL	1	PASI-G
40195172002	**GP-02 (7.5-10' BGS)**	EPA 8260	SMT	12	PASI-G
		ASTM D2974-87	TEL	1	PASI-G
40195172003	**GP-03 (7.5-10' BGS)**	EPA 8260	SMT	12	PASI-G
		ASTM D2974-87	TEL	1	PASI-G
40195172004	**GP-04 (7.5-10' BGS)**	WI MOD DRO	MRN	1	PASI-G
		WI MOD GRO	ALD	1	PASI-G
		EPA 8260	SMT	12	PASI-G
		ASTM D2974-87	TEL	1	PASI-G
40195172005	**GP-05 (7.5-10' BGS)**	EPA 8260	SMT	12	PASI-G
		ASTM D2974-87	TEL	1	PASI-G
40195172006	**GP-06 (7.5-10' BGS)**	WI MOD DRO	MRN	1	PASI-G
		WI MOD GRO	ALD	1	PASI-G
		EPA 8260	SMT	12	PASI-G
		ASTM D2974-87	TEL	1	PASI-G
40195172007	**GP-07 (7.5-10' BGS)**	EPA 8260	SMT	12	PASI-G
		ASTM D2974-87	TEL	1	PASI-G
40195172008	**TW-04**	EPA 8260	HNW	64	PASI-G
40195172009	**TW-06**	EPA 8260	HNW	64	PASI-G
40195172010	**TRIP BLANK**	EPA 8260	HNW	64	PASI-G
40195172011	**GP-05 (7.5-10' BGS)**	EPA 8260	MDS	64	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40195172012	**GP-06 (7.5-10' BGS)**	EPA 8260	MDS	64	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40195172013	**GP-07 (7.5-10' BGS)**	EPA 8260	MDS	64	PASI-G
		ASTM D2974-87	AH	1	PASI-G

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SUMMARY OF DETECTION

Project: 347145 WISDOT-OAKFIELD PH 2.5
Pace Project No.: 40195172

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40195172001	**GP-01 (7.5-10' BGS)**					
ASTM D2974-87	Percent Moisture	10.3	%	0.10	09/27/19 12:41	
40195172002	**GP-02 (7.5-10' BGS)**					
ASTM D2974-87	Percent Moisture	14.3	%	0.10	09/27/19 12:41	
40195172003	**GP-03 (7.5-10' BGS)**					
ASTM D2974-87	Percent Moisture	11.9	%	0.10	09/27/19 12:41	
40195172004	**GP-04 (7.5-10' BGS)**					
WI MOD DRO	Diesel Range Organics	9.1J	mg/kg	23.8	09/20/19 11:21	
WI MOD GRO	Gasoline Range Organics	5.6J	mg/kg	6.2	09/20/19 11:19	2q
ASTM D2974-87	Percent Moisture	19.1	%	0.10	09/27/19 12:41	
40195172005	**GP-05 (7.5-10' BGS)**					
ASTM D2974-87	Percent Moisture	10.1	%	0.10	09/27/19 12:41	
40195172006	**GP-06 (7.5-10' BGS)**					
WI MOD DRO	Diesel Range Organics	1.6J	mg/kg	4.7	09/20/19 10:02	
WI MOD GRO	Gasoline Range Organics	4.8J	mg/kg	5.7	09/20/19 11:45	2q
ASTM D2974-87	Percent Moisture	12.3	%	0.10	09/27/19 12:41	
40195172007	**GP-07 (7.5-10' BGS)**					
ASTM D2974-87	Percent Moisture	19.4	%	0.10	09/27/19 12:41	
40195172009	**TW-06**					
EPA 8260	1,1-Dichloroethane	51.8	ug/L	10.0	09/18/19 09:10	
EPA 8260	cis-1,2-Dichloroethene	733	ug/L	10.0	09/18/19 09:10	
EPA 8260	Trichloroethene	6.8J	ug/L	10.0	09/18/19 09:10	
EPA 8260	Vinyl chloride	2010	ug/L	10.0	09/18/19 09:10	
40195172011	**GP-05 (7.5-10' BGS)**					
EPA 8260	Trichloroethene	354	ug/kg	66.8	10/03/19 11:28	H1
ASTM D2974-87	Percent Moisture	10.1	%	0.10	09/27/19 12:41	
40195172012	**GP-06 (7.5-10' BGS)**					
EPA 8260	1,1-Dichloroethane	227	ug/kg	68.4	10/03/19 11:51	H1,L1
EPA 8260	Vinyl chloride	43.4J	ug/kg	68.4	10/03/19 11:51	H1
EPA 8260	cis-1,2-Dichloroethene	115	ug/kg	68.4	10/03/19 11:51	H1
ASTM D2974-87	Percent Moisture	12.3	%	0.10	09/27/19 12:41	
40195172013	**GP-07 (7.5-10' BGS)**					
EPA 8260	Trichloroethene	165	ug/kg	74.4	10/02/19 15:25	H1
ASTM D2974-87	Percent Moisture	19.4	%	0.10	09/27/19 12:41	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

PROJECT NARRATIVE

Project: 347145 WISDOT-OAKFIELD PH 2.5
Pace Project No.: 40195172

Method: **WI MOD DRO**
Description: WIDRO GCS
Client: TRC - MADISON
Date: October 09, 2019

General Information:
2 samples were analyzed for WI MOD DRO. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with WI MOD DRO with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

PROJECT NARRATIVE

Project: 347145 WISDOT-OAKFIELD PH 2.5
Pace Project No.: 40195172

Method: **WI MOD GRO**
Description: WIGRO GCV
Client: TRC - MADISON
Date: October 09, 2019

General Information:
2 samples were analyzed for WI MOD GRO. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with TPH GRO/PVOC WI ext. with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 334670

2q: Approximately 4.08 mg/Kg of the GRO value is due to the addition of 8260 surrogate standards.

- GP-04 (7.5-10' BGS) (Lab ID: 40195172004)
  - Gasoline Range Organics
- GP-06 (7.5-10' BGS) (Lab ID: 40195172006)
  - Gasoline Range Organics

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PROJECT NARRATIVE

Project: 347145 WISDOT-OAKFIELD PH 2.5
Pace Project No.: 40195172

Method: **EPA 8260**
Description: 8260 MSV Med Level Normal List
Client: TRC - MADISON
Date: October 09, 2019

General Information:
3 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H1: Analysis conducted outside the recognized method holding time.
- GP-05 (7.5-10' BGS) (Lab ID: 40195172011)
- GP-06 (7.5-10' BGS) (Lab ID: 40195172012)
- GP-07 (7.5-10' BGS) (Lab ID: 40195172013)

Sample Preparation:
The samples were prepared in accordance with EPA 5035/5030B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: 336244

L1: Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.
- LCS (Lab ID: 1952273)
  - 1,1-Dichloroethane
  - 1,2-Dichloroethane

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 347145 WISDOT-OAKFIELD PH 2.5
Pace Project No.: 40195172

Method: **EPA 8260**
Description: 8260 MSV Med Level Short List
Client: TRC - MADISON
Date: October 09, 2019

General Information:
7 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 5035/5030B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 347145 WISDOT-OAKFIELD PH 2.5
Pace Project No.: 40195172

Method: **EPA 8260**
Description: 8260 MSV
Client: TRC - MADISON
Date: October 09, 2019

General Information:
3 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 334142

1q: Analyte recovery in the continuing calibration verification (CCV) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

- TW-04 (Lab ID: 40195172008)
  - Chloromethane
- TW-06 (Lab ID: 40195172009)
  - Chloromethane

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 347145 WISDOT-OAKFIELD PH 2.5
Pace Project No.: 40195172

Sample: GP-01 (7.5-10' BGS) **Lab ID: 40195172001** Collected: 09/10/19 12:45 Received: 09/14/19 10:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	09/20/19 21:57	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	09/20/19 21:57	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	09/20/19 21:57	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	09/20/19 10:00	09/20/19 21:57	91-20-3	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	09/20/19 21:57	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	09/20/19 21:57	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	09/20/19 21:57	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	09/20/19 10:00	09/20/19 21:57	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	09/20/19 21:57	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	108	%	57-146		1	09/20/19 10:00	09/20/19 21:57	1868-53-7	
4-Bromofluorobenzene (S)	106	%	54-126		1	09/20/19 10:00	09/20/19 21:57	460-00-4	
Toluene-d8 (S)	112	%	64-134		1	09/20/19 10:00	09/20/19 21:57	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**10.3**	%	0.10	0.10	1		09/27/19 12:41		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 347145 WISDOT-OAKFIELD PH 2.5
Pace Project No.: 40195172

Sample: GP-02 (7.5-10' BGS) **Lab ID: 40195172002** Collected: 09/10/19 13:05 Received: 09/14/19 10:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	09/20/19 22:20	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	09/20/19 22:20	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	09/20/19 22:20	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	09/20/19 10:00	09/20/19 22:20	91-20-3	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	09/20/19 22:20	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	09/20/19 22:20	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	09/20/19 22:20	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	09/20/19 10:00	09/20/19 22:20	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	09/20/19 22:20	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	106	%	57-146		1	09/20/19 10:00	09/20/19 22:20	1868-53-7	
4-Bromofluorobenzene (S)	110	%	54-126		1	09/20/19 10:00	09/20/19 22:20	460-00-4	
Toluene-d8 (S)	111	%	64-134		1	09/20/19 10:00	09/20/19 22:20	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**14.3**	%	0.10	0.10	1		09/27/19 12:41		

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ANALYTICAL RESULTS

Project: 347145 WISDOT-OAKFIELD PH 2.5
Pace Project No.: 40195172

Sample: GP-03 (7.5-10' BGS) **Lab ID: 40195172003** Collected: 09/10/19 13:30 Received: 09/14/19 10:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	09/20/19 21:34	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	09/20/19 21:34	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	09/20/19 21:34	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	09/20/19 10:00	09/20/19 21:34	91-20-3	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	09/20/19 21:34	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	09/20/19 21:34	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	09/20/19 21:34	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	09/20/19 10:00	09/20/19 21:34	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	09/20/19 21:34	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	108	%	57-146		1	09/20/19 10:00	09/20/19 21:34	1868-53-7	
4-Bromofluorobenzene (S)	103	%	54-126		1	09/20/19 10:00	09/20/19 21:34	460-00-4	
Toluene-d8 (S)	111	%	64-134		1	09/20/19 10:00	09/20/19 21:34	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**11.9**	%	0.10	0.10	1		09/27/19 12:41		

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ANALYTICAL RESULTS

Project: 347145 WISDOT-OAKFIELD PH 2.5
Pace Project No.: 40195172

Sample: GP-04 (7.5-10' BGS) **Lab ID: 40195172004** Collected: 09/10/19 13:50 Received: 09/14/19 10:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
Diesel Range Organics	**9.1J**	mg/kg	23.8	7.1	1	09/19/19 09:08	09/20/19 11:21		
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Gasoline Range Organics	**5.6J**	mg/kg	6.2	3.1	1	09/20/19 08:40	09/20/19 11:19		2q
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	09/20/19 22:43	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	09/20/19 22:43	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	09/20/19 22:43	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	09/20/19 10:00	09/20/19 22:43	91-20-3	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	09/20/19 22:43	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	09/20/19 22:43	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	09/20/19 22:43	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	09/20/19 10:00	09/20/19 22:43	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	09/20/19 22:43	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	110	%	57-146		1	09/20/19 10:00	09/20/19 22:43	1868-53-7	
4-Bromofluorobenzene (S)	104	%	54-126		1	09/20/19 10:00	09/20/19 22:43	460-00-4	
Toluene-d8 (S)	105	%	64-134		1	09/20/19 10:00	09/20/19 22:43	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**19.1**	%	0.10	0.10	1		09/27/19 12:41		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 347145 WISDOT-OAKFIELD PH 2.5
Pace Project No.: 40195172

Sample: GP-05 (7.5-10' BGS) **Lab ID: 40195172005** Collected: 09/10/19 15:00 Received: 09/14/19 10:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	09/20/19 23:07	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	09/20/19 23:07	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	09/20/19 23:07	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	09/20/19 10:00	09/20/19 23:07	91-20-3	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	09/20/19 23:07	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	09/20/19 23:07	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	09/20/19 23:07	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	09/20/19 10:00	09/20/19 23:07	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	09/20/19 23:07	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	115	%	57-146		1	09/20/19 10:00	09/20/19 23:07	1868-53-7	
4-Bromofluorobenzene (S)	108	%	54-126		1	09/20/19 10:00	09/20/19 23:07	460-00-4	
Toluene-d8 (S)	110	%	64-134		1	09/20/19 10:00	09/20/19 23:07	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**10.1**	%	0.10	0.10	1		09/27/19 12:41		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 347145 WISDOT-OAKFIELD PH 2.5
Pace Project No.: 40195172

Sample: GP-06 (7.5-10' BGS) **Lab ID: 40195172006** Collected: 09/10/19 15:45 Received: 09/14/19 10:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
Diesel Range Organics	**1.6J**	mg/kg	4.7	1.4	1	09/19/19 09:08	09/20/19 10:02		
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Gasoline Range Organics	**4.8J**	mg/kg	5.7	2.9	1	09/20/19 08:40	09/20/19 11:45		2q
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	09/20/19 23:30	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	09/20/19 23:30	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	09/20/19 23:30	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	09/20/19 10:00	09/20/19 23:30	91-20-3	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	09/20/19 23:30	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	09/20/19 23:30	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	09/20/19 23:30	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	09/20/19 10:00	09/20/19 23:30	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	09/20/19 23:30	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	112	%	57-146		1	09/20/19 10:00	09/20/19 23:30	1868-53-7	
4-Bromofluorobenzene (S)	108	%	54-126		1	09/20/19 10:00	09/20/19 23:30	460-00-4	
Toluene-d8 (S)	111	%	64-134		1	09/20/19 10:00	09/20/19 23:30	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**12.3**	%	0.10	0.10	1		09/27/19 12:41		

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ANALYTICAL RESULTS

Project: 347145 WISDOT-OAKFIELD PH 2.5
Pace Project No.: 40195172

Sample: GP-07 (7.5-10' BGS) **Lab ID: 40195172007** Collected: 09/10/19 16:20 Received: 09/14/19 10:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	09/20/19 23:53	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	09/20/19 23:53	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	09/20/19 23:53	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	09/20/19 10:00	09/20/19 23:53	91-20-3	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	09/20/19 23:53	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	09/20/19 23:53	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	09/20/19 23:53	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	09/20/19 10:00	09/20/19 23:53	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	09/20/19 23:53	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	107	%	57-146		1	09/20/19 10:00	09/20/19 23:53	1868-53-7	
4-Bromofluorobenzene (S)	102	%	54-126		1	09/20/19 10:00	09/20/19 23:53	460-00-4	
Toluene-d8 (S)	103	%	64-134		1	09/20/19 10:00	09/20/19 23:53	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**19.4**	%	0.10	0.10	1		09/27/19 12:41		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 347145 WISDOT-OAKFIELD PH 2.5
Pace Project No.: 40195172

Sample: TW-04 **Lab ID: 40195172008** Collected: 09/10/19 14:00 Received: 09/14/19 10:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		09/18/19 08:06	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		09/18/19 08:06	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		09/18/19 08:06	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		09/18/19 08:06	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		09/18/19 08:06	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		09/18/19 08:06	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		09/18/19 08:06	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		09/18/19 08:06	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		09/18/19 08:06	98-06-6	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		09/18/19 08:06	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		09/18/19 08:06	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		09/18/19 08:06	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		09/18/19 08:06	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		09/18/19 08:06	74-87-3	1q
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		09/18/19 08:06	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		09/18/19 08:06	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		09/18/19 08:06	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		09/18/19 08:06	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		09/18/19 08:06	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		09/18/19 08:06	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		09/18/19 08:06	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		09/18/19 08:06	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		09/18/19 08:06	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		09/18/19 08:06	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		09/18/19 08:06	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		09/18/19 08:06	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		09/18/19 08:06	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		09/18/19 08:06	156-59-2	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		09/18/19 08:06	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		09/18/19 08:06	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		09/18/19 08:06	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		09/18/19 08:06	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		09/18/19 08:06	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		09/18/19 08:06	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		09/18/19 08:06	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		09/18/19 08:06	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		09/18/19 08:06	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		09/18/19 08:06	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		09/18/19 08:06	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		09/18/19 08:06	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		09/18/19 08:06	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		09/18/19 08:06	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		09/18/19 08:06	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		09/18/19 08:06	103-65-1	
Styrene	**<0.47**	ug/L	1.6	0.47	1		09/18/19 08:06	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		09/18/19 08:06	630-20-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 347145 WISDOT-OAKFIELD PH 2.5
Pace Project No.: 40195172

Sample: TW-04 **Lab ID: 40195172008** Collected: 09/10/19 14:00 Received: 09/14/19 10:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		09/18/19 08:06	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		09/18/19 08:06	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		09/18/19 08:06	108-88-3	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		09/18/19 08:06	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		09/18/19 08:06	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		09/18/19 08:06	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		09/18/19 08:06	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		09/18/19 08:06	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		09/18/19 08:06	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		09/18/19 08:06	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		09/18/19 08:06	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		09/18/19 08:06	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		09/18/19 08:06	75-01-4	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		09/18/19 08:06	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		09/18/19 08:06	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		09/18/19 08:06	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		09/18/19 08:06	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		09/18/19 08:06	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 347145 WISDOT-OAKFIELD PH 2.5
Pace Project No.: 40195172

Sample: TW-06 **Lab ID: 40195172009** Collected: 09/10/19 16:35 Received: 09/14/19 10:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<2.5**	ug/L	10.0	2.5	10		09/18/19 09:10	71-43-2	
Bromobenzene	**<2.4**	ug/L	10.0	2.4	10		09/18/19 09:10	108-86-1	
Bromochloromethane	**<3.6**	ug/L	50.0	3.6	10		09/18/19 09:10	74-97-5	
Bromodichloromethane	**<3.6**	ug/L	12.1	3.6	10		09/18/19 09:10	75-27-4	
Bromoform	**<39.7**	ug/L	132	39.7	10		09/18/19 09:10	75-25-2	
Bromomethane	**<9.7**	ug/L	50.0	9.7	10		09/18/19 09:10	74-83-9	
n-Butylbenzene	**<7.1**	ug/L	23.6	7.1	10		09/18/19 09:10	104-51-8	
sec-Butylbenzene	**<8.5**	ug/L	50.0	8.5	10		09/18/19 09:10	135-98-8	
tert-Butylbenzene	**<3.0**	ug/L	10.1	3.0	10		09/18/19 09:10	98-06-6	
Carbon tetrachloride	**<1.7**	ug/L	10.0	1.7	10		09/18/19 09:10	56-23-5	
Chlorobenzene	**<7.1**	ug/L	23.7	7.1	10		09/18/19 09:10	108-90-7	
Chloroethane	**<13.4**	ug/L	50.0	13.4	10		09/18/19 09:10	75-00-3	
Chloroform	**<12.7**	ug/L	50.0	12.7	10		09/18/19 09:10	67-66-3	
Chloromethane	**<21.9**	ug/L	73.0	21.9	10		09/18/19 09:10	74-87-3	1q
2-Chlorotoluene	**<9.3**	ug/L	50.0	9.3	10		09/18/19 09:10	95-49-8	
4-Chlorotoluene	**<7.6**	ug/L	25.2	7.6	10		09/18/19 09:10	106-43-4	
1,2-Dibromo-3-chloropropane	**<17.6**	ug/L	58.8	17.6	10		09/18/19 09:10	96-12-8	
Dibromochloromethane	**<26.0**	ug/L	86.7	26.0	10		09/18/19 09:10	124-48-1	
1,2-Dibromoethane (EDB)	**<8.3**	ug/L	27.6	8.3	10		09/18/19 09:10	106-93-4	
Dibromomethane	**<9.4**	ug/L	31.2	9.4	10		09/18/19 09:10	74-95-3	
1,2-Dichlorobenzene	**<7.1**	ug/L	23.5	7.1	10		09/18/19 09:10	95-50-1	
1,3-Dichlorobenzene	**<6.3**	ug/L	20.9	6.3	10		09/18/19 09:10	541-73-1	
1,4-Dichlorobenzene	**<9.4**	ug/L	31.5	9.4	10		09/18/19 09:10	106-46-7	
Dichlorodifluoromethane	**<5.0**	ug/L	50.0	5.0	10		09/18/19 09:10	75-71-8	
1,1-Dichloroethane	**51.8**	ug/L	10.0	2.7	10		09/18/19 09:10	75-34-3	
1,2-Dichloroethane	**<2.8**	ug/L	10.0	2.8	10		09/18/19 09:10	107-06-2	
1,1-Dichloroethene	**<2.4**	ug/L	10.0	2.4	10		09/18/19 09:10	75-35-4	
cis-1,2-Dichloroethene	**733**	ug/L	10.0	2.7	10		09/18/19 09:10	156-59-2	
trans-1,2-Dichloroethene	**<10.9**	ug/L	36.4	10.9	10		09/18/19 09:10	156-60-5	
1,2-Dichloropropane	**<2.8**	ug/L	10.0	2.8	10		09/18/19 09:10	78-87-5	
1,3-Dichloropropane	**<8.3**	ug/L	27.5	8.3	10		09/18/19 09:10	142-28-9	
2,2-Dichloropropane	**<22.7**	ug/L	75.5	22.7	10		09/18/19 09:10	594-20-7	
1,1-Dichloropropene	**<5.4**	ug/L	18.0	5.4	10		09/18/19 09:10	563-58-6	
cis-1,3-Dichloropropene	**<36.3**	ug/L	121	36.3	10		09/18/19 09:10	10061-01-5	
trans-1,3-Dichloropropene	**<43.7**	ug/L	146	43.7	10		09/18/19 09:10	10061-02-6	
Diisopropyl ether	**<18.9**	ug/L	62.9	18.9	10		09/18/19 09:10	108-20-3	
Ethylbenzene	**<2.2**	ug/L	10.0	2.2	10		09/18/19 09:10	100-41-4	
Hexachloro-1,3-butadiene	**<11.8**	ug/L	50.0	11.8	10		09/18/19 09:10	87-68-3	
Isopropylbenzene (Cumene)	**<3.9**	ug/L	50.0	3.9	10		09/18/19 09:10	98-82-8	
p-Isopropyltoluene	**<8.0**	ug/L	26.7	8.0	10		09/18/19 09:10	99-87-6	
Methylene Chloride	**<5.8**	ug/L	50.0	5.8	10		09/18/19 09:10	75-09-2	
Methyl-tert-butyl ether	**<12.5**	ug/L	41.5	12.5	10		09/18/19 09:10	1634-04-4	
Naphthalene	**<11.8**	ug/L	50.0	11.8	10		09/18/19 09:10	91-20-3	
n-Propylbenzene	**<8.1**	ug/L	50.0	8.1	10		09/18/19 09:10	103-65-1	
Styrene	**<4.7**	ug/L	15.5	4.7	10		09/18/19 09:10	100-42-5	
1,1,1,2-Tetrachloroethane	**<2.7**	ug/L	10.0	2.7	10		09/18/19 09:10	630-20-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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ANALYTICAL RESULTS

Project: 347145 WISDOT-OAKFIELD PH 2.5
Pace Project No.: 40195172

Sample: TW-06 **Lab ID: 40195172009** Collected: 09/10/19 16:35 Received: 09/14/19 10:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<2.8**	ug/L	10.0	2.8	10		09/18/19 09:10	79-34-5	
Tetrachloroethene	**<3.3**	ug/L	10.9	3.3	10		09/18/19 09:10	127-18-4	
Toluene	**<1.7**	ug/L	50.0	1.7	10		09/18/19 09:10	108-88-3	
1,2,3-Trichlorobenzene	**<6.3**	ug/L	50.0	6.3	10		09/18/19 09:10	87-61-6	
1,2,4-Trichlorobenzene	**<9.5**	ug/L	50.0	9.5	10		09/18/19 09:10	120-82-1	
1,1,1-Trichloroethane	**<2.4**	ug/L	10.0	2.4	10		09/18/19 09:10	71-55-6	
1,1,2-Trichloroethane	**<5.5**	ug/L	50.0	5.5	10		09/18/19 09:10	79-00-5	
Trichloroethene	**6.8J**	ug/L	10.0	2.6	10		09/18/19 09:10	79-01-6	
Trichlorofluoromethane	**<2.1**	ug/L	10.0	2.1	10		09/18/19 09:10	75-69-4	
1,2,3-Trichloropropane	**<5.9**	ug/L	50.0	5.9	10		09/18/19 09:10	96-18-4	
1,2,4-Trimethylbenzene	**<8.4**	ug/L	28.0	8.4	10		09/18/19 09:10	95-63-6	
1,3,5-Trimethylbenzene	**<8.7**	ug/L	29.1	8.7	10		09/18/19 09:10	108-67-8	
Vinyl chloride	**2010**	ug/L	10.0	1.7	10		09/18/19 09:10	75-01-4	
m&p-Xylene	**<4.7**	ug/L	20.0	4.7	10		09/18/19 09:10	179601-23-1	
o-Xylene	**<2.6**	ug/L	10.0	2.6	10		09/18/19 09:10	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		10		09/18/19 09:10	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		10		09/18/19 09:10	1868-53-7	
Toluene-d8 (S)	102	%	70-130		10		09/18/19 09:10	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
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ANALYTICAL RESULTS

Project: 347145 WISDOT-OAKFIELD PH 2.5
Pace Project No.: 40195172

Sample: TRIP BLANK **Lab ID: 40195172010** Collected: 09/10/19 00:00 Received: 09/14/19 10:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		09/17/19 16:17	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		09/17/19 16:17	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		09/17/19 16:17	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		09/17/19 16:17	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		09/17/19 16:17	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		09/17/19 16:17	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		09/17/19 16:17	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		09/17/19 16:17	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		09/17/19 16:17	98-06-6	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		09/17/19 16:17	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		09/17/19 16:17	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		09/17/19 16:17	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		09/17/19 16:17	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		09/17/19 16:17	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		09/17/19 16:17	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		09/17/19 16:17	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		09/17/19 16:17	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		09/17/19 16:17	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		09/17/19 16:17	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		09/17/19 16:17	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		09/17/19 16:17	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		09/17/19 16:17	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		09/17/19 16:17	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		09/17/19 16:17	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		09/17/19 16:17	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		09/17/19 16:17	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		09/17/19 16:17	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		09/17/19 16:17	156-59-2	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		09/17/19 16:17	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		09/17/19 16:17	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		09/17/19 16:17	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		09/17/19 16:17	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		09/17/19 16:17	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		09/17/19 16:17	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		09/17/19 16:17	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		09/17/19 16:17	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		09/17/19 16:17	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		09/17/19 16:17	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		09/17/19 16:17	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		09/17/19 16:17	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		09/17/19 16:17	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		09/17/19 16:17	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		09/17/19 16:17	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		09/17/19 16:17	103-65-1	
Styrene	**<0.47**	ug/L	1.6	0.47	1		09/17/19 16:17	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		09/17/19 16:17	630-20-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 347145 WISDOT-OAKFIELD PH 2.5
Pace Project No.: 40195172

Sample: TRIP BLANK **Lab ID: 40195172010** Collected: 09/10/19 00:00 Received: 09/14/19 10:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		09/17/19 16:17	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		09/17/19 16:17	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		09/17/19 16:17	108-88-3	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		09/17/19 16:17	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		09/17/19 16:17	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		09/17/19 16:17	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		09/17/19 16:17	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		09/17/19 16:17	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		09/17/19 16:17	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		09/17/19 16:17	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		09/17/19 16:17	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		09/17/19 16:17	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		09/17/19 16:17	75-01-4	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		09/17/19 16:17	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		09/17/19 16:17	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		09/17/19 16:17	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		09/17/19 16:17	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		09/17/19 16:17	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 347145 WISDOT-OAKFIELD PH 2.5
Pace Project No.: 40195172

Sample: GP-05 (7.5-10' BGS) **Lab ID: 40195172011** Collected: 09/10/19 15:00 Received: 09/14/19 10:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:28	630-20-6	H1,W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:28	71-55-6	H1,W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:28	79-34-5	H1,W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:28	79-00-5	H1,W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:28	75-34-3	H1,L1, W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:28	75-35-4	H1,W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:28	563-58-6	H1,W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:28	87-61-6	H1,W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:28	96-18-4	H1,W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	09/20/19 10:00	10/03/19 11:28	120-82-1	H1,W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:28	95-63-6	H1,W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	09/20/19 10:00	10/03/19 11:28	96-12-8	H1,W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:28	106-93-4	H1,W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:28	95-50-1	H1,W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:28	107-06-2	H1,L1, W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:28	78-87-5	H1,W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:28	108-67-8	H1,W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:28	541-73-1	H1,W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:28	142-28-9	H1,W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:28	106-46-7	H1,W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:28	594-20-7	H1,W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:28	95-49-8	H1,W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:28	106-43-4	H1,W
Benzene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:28	71-43-2	H1,W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:28	108-86-1	H1,W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:28	74-97-5	H1,W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:28	75-27-4	H1,W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:28	75-25-2	H1,W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	09/20/19 10:00	10/03/19 11:28	74-83-9	H1,W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:28	56-23-5	H1,W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:28	108-90-7	H1,W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	09/20/19 10:00	10/03/19 11:28	75-00-3	H1,W
Chloroform	**<46.4**	ug/kg	250	46.4	1	09/20/19 10:00	10/03/19 11:28	67-66-3	H1,W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:28	74-87-3	H1,W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:28	124-48-1	H1,W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:28	74-95-3	H1,W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:28	75-71-8	H1,W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:28	108-20-3	H1,W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:28	100-41-4	H1,W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:28	87-68-3	H1,W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:28	98-82-8	H1,W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:28	1634-04-4	H1,W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:28	75-09-2	H1,W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	09/20/19 10:00	10/03/19 11:28	91-20-3	H1,W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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ANALYTICAL RESULTS

Project: 347145 WISDOT-OAKFIELD PH 2.5
Pace Project No.: 40195172

Sample: GP-05 (7.5-10' BGS) **Lab ID: 40195172011** Collected: 09/10/19 15:00 Received: 09/14/19 10:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Styrene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:28	100-42-5	H1,W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:28	127-18-4	H1,W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:28	108-88-3	H1,W
Trichloroethene	**354**	ug/kg	66.8	27.8	1	09/20/19 10:00	10/03/19 11:28	79-01-6	H1
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:28	75-69-4	H1,W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:28	75-01-4	H1,W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:28	156-59-2	H1,W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:28	10061-01-5	H1,W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	09/20/19 10:00	10/03/19 11:28	179601-23-1	H1,W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:28	104-51-8	H1,W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:28	103-65-1	H1,W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:28	95-47-6	H1,W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:28	99-87-6	H1,W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:28	135-98-8	H1,W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:28	98-06-6	H1,W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:28	156-60-5	H1,W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:28	10061-02-6	H1,W
Surrogates									
Dibromofluoromethane (S)	111	%	57-146		1	09/20/19 10:00	10/03/19 11:28	1868-53-7	
Toluene-d8 (S)	101	%	64-134		1	09/20/19 10:00	10/03/19 11:28	2037-26-5	
4-Bromofluorobenzene (S)	91	%	54-126		1	09/20/19 10:00	10/03/19 11:28	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**10.1**	%	0.10	0.10	1		09/27/19 12:41		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
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ANALYTICAL RESULTS

Project: 347145 WISDOT-OAKFIELD PH 2.5
Pace Project No.: 40195172

Sample: GP-06 (7.5-10' BGS) **Lab ID: 40195172012** Collected: 09/10/19 15:45 Received: 09/14/19 10:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:51	630-20-6	H1,W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:51	71-55-6	H1,W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:51	79-34-5	H1,W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:51	79-00-5	H1,W
1,1-Dichloroethane	**227**	ug/kg	68.4	28.5	1	09/20/19 10:00	10/03/19 11:51	75-34-3	H1,L1
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:51	75-35-4	H1,W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:51	563-58-6	H1,W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:51	87-61-6	H1,W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:51	96-18-4	H1,W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	09/20/19 10:00	10/03/19 11:51	120-82-1	H1,W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:51	95-63-6	H1,W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	09/20/19 10:00	10/03/19 11:51	96-12-8	H1,W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:51	106-93-4	H1,W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:51	95-50-1	H1,W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:51	107-06-2	H1,L1, W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:51	78-87-5	H1,W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:51	108-67-8	H1,W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:51	541-73-1	H1,W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:51	142-28-9	H1,W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:51	106-46-7	H1,W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:51	594-20-7	H1,W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:51	95-49-8	H1,W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:51	106-43-4	H1,W
Benzene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:51	71-43-2	H1,W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:51	108-86-1	H1,W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:51	74-97-5	H1,W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:51	75-27-4	H1,W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:51	75-25-2	H1,W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	09/20/19 10:00	10/03/19 11:51	74-83-9	H1,W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:51	56-23-5	H1,W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:51	108-90-7	H1,W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	09/20/19 10:00	10/03/19 11:51	75-00-3	H1,W
Chloroform	**<46.4**	ug/kg	250	46.4	1	09/20/19 10:00	10/03/19 11:51	67-66-3	H1,W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:51	74-87-3	H1,W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:51	124-48-1	H1,W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:51	74-95-3	H1,W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:51	75-71-8	H1,W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:51	108-20-3	H1,W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:51	100-41-4	H1,W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:51	87-68-3	H1,W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:51	98-82-8	H1,W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:51	1634-04-4	H1,W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:51	75-09-2	H1,W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	09/20/19 10:00	10/03/19 11:51	91-20-3	H1,W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 347145 WISDOT-OAKFIELD PH 2.5
Pace Project No.: 40195172

Sample: GP-06 (7.5-10' BGS) **Lab ID: 40195172012** Collected: 09/10/19 15:45 Received: 09/14/19 10:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Styrene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:51	100-42-5	H1,W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:51	127-18-4	H1,W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:51	108-88-3	H1,W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:51	79-01-6	H1,W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:51	75-69-4	H1,W
Vinyl chloride	**43.4J**	ug/kg	68.4	28.5	1	09/20/19 10:00	10/03/19 11:51	75-01-4	H1
cis-1,2-Dichloroethene	**115**	ug/kg	68.4	28.5	1	09/20/19 10:00	10/03/19 11:51	156-59-2	H1
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:51	10061-01-5	H1,W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	09/20/19 10:00	10/03/19 11:51	179601-23-1	H1,W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:51	104-51-8	H1,W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:51	103-65-1	H1,W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:51	95-47-6	H1,W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:51	99-87-6	H1,W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:51	135-98-8	H1,W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:51	98-06-6	H1,W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:51	156-60-5	H1,W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/03/19 11:51	10061-02-6	H1,W
Surrogates									
Dibromofluoromethane (S)	100	%	57-146		1	09/20/19 10:00	10/03/19 11:51	1868-53-7	
Toluene-d8 (S)	91	%	64-134		1	09/20/19 10:00	10/03/19 11:51	2037-26-5	
4-Bromofluorobenzene (S)	82	%	54-126		1	09/20/19 10:00	10/03/19 11:51	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**12.3**	%	0.10	0.10	1		09/27/19 12:41		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 347145 WISDOT-OAKFIELD PH 2.5
Pace Project No.: 40195172

Sample: GP-07 (7.5-10' BGS) **Lab ID: 40195172013** Collected: 09/10/19 16:20 Received: 09/14/19 10:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/02/19 15:25	630-20-6	H1,W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/02/19 15:25	71-55-6	H1,W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/02/19 15:25	79-34-5	H1,W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/02/19 15:25	79-00-5	H1,W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/02/19 15:25	75-34-3	H1,L1, W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/02/19 15:25	75-35-4	H1,W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/02/19 15:25	563-58-6	H1,W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/02/19 15:25	87-61-6	H1,W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/02/19 15:25	96-18-4	H1,W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	09/20/19 10:00	10/02/19 15:25	120-82-1	H1,W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/02/19 15:25	95-63-6	H1,W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	09/20/19 10:00	10/02/19 15:25	96-12-8	H1,W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/02/19 15:25	106-93-4	H1,W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/02/19 15:25	95-50-1	H1,W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/02/19 15:25	107-06-2	H1,L1, W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/02/19 15:25	78-87-5	H1,W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/02/19 15:25	108-67-8	H1,W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/02/19 15:25	541-73-1	H1,W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/02/19 15:25	142-28-9	H1,W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/02/19 15:25	106-46-7	H1,W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/02/19 15:25	594-20-7	H1,W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/02/19 15:25	95-49-8	H1,W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/02/19 15:25	106-43-4	H1,W
Benzene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/02/19 15:25	71-43-2	H1,W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/02/19 15:25	108-86-1	H1,W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/02/19 15:25	74-97-5	H1,W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/02/19 15:25	75-27-4	H1,W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/02/19 15:25	75-25-2	H1,W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	09/20/19 10:00	10/02/19 15:25	74-83-9	H1,W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/02/19 15:25	56-23-5	H1,W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/02/19 15:25	108-90-7	H1,W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	09/20/19 10:00	10/02/19 15:25	75-00-3	H1,W
Chloroform	**<46.4**	ug/kg	250	46.4	1	09/20/19 10:00	10/02/19 15:25	67-66-3	H1,W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/02/19 15:25	74-87-3	H1,W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/02/19 15:25	124-48-1	H1,W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/02/19 15:25	74-95-3	H1,W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/02/19 15:25	75-71-8	H1,W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/02/19 15:25	108-20-3	H1,W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/02/19 15:25	100-41-4	H1,W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/02/19 15:25	87-68-3	H1,W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/02/19 15:25	98-82-8	H1,W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/02/19 15:25	1634-04-4	H1,W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/02/19 15:25	75-09-2	H1,W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	09/20/19 10:00	10/02/19 15:25	91-20-3	H1,W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 347145 WISDOT-OAKFIELD PH 2.5
Pace Project No.: 40195172

Sample: GP-07 (7.5-10' BGS) **Lab ID: 40195172013** Collected: 09/10/19 16:20 Received: 09/14/19 10:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Styrene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/02/19 15:25	100-42-5	H1,W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/02/19 15:25	127-18-4	H1,W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/02/19 15:25	108-88-3	H1,W
Trichloroethene	**165**	ug/kg	74.4	31.0	1	09/20/19 10:00	10/02/19 15:25	79-01-6	H1
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/02/19 15:25	75-69-4	H1,W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/02/19 15:25	75-01-4	H1,W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/02/19 15:25	156-59-2	H1,W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/02/19 15:25	10061-01-5	H1,W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	09/20/19 10:00	10/02/19 15:25	179601-23-1	H1,W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/02/19 15:25	104-51-8	H1,W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/02/19 15:25	103-65-1	H1,W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/02/19 15:25	95-47-6	H1,W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/02/19 15:25	99-87-6	H1,W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/02/19 15:25	135-98-8	H1,W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/02/19 15:25	98-06-6	H1,W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/02/19 15:25	156-60-5	H1,W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	09/20/19 10:00	10/02/19 15:25	10061-02-6	H1,W
Surrogates									
Dibromofluoromethane (S)	101	%	57-146		1	09/20/19 10:00	10/02/19 15:25	1868-53-7	
Toluene-d8 (S)	92	%	64-134		1	09/20/19 10:00	10/02/19 15:25	2037-26-5	
4-Bromofluorobenzene (S)	89	%	54-126		1	09/20/19 10:00	10/02/19 15:25	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**19.4**	%	0.10	0.10	1		09/27/19 12:41		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 347145 WISDOT-OAKFIELD PH 2.5
Pace Project No.: 40195172

QC Batch: 334670 Analysis Method: WI MOD GRO
QC Batch Method: TPH GRO/PVOC WI ext. Analysis Description: WIGRO Solid GCV
Associated Lab Samples: 40195172004, 40195172006

METHOD BLANK: 1943207 Matrix: Solid
Associated Lab Samples: 40195172004, 40195172006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	<1.2	4.1	09/20/19 09:36	
a,a,a-Trifluorotoluene (S)	%	101	80-120	09/20/19 09:36	

LABORATORY CONTROL SAMPLE & LCSD: 1943208 1943209

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Gasoline Range Organics	mg/kg	10	9.9	9.6	99	96	80-120	3	20	
a,a,a-Trifluorotoluene (S)	%				102	101	80-120			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Green Bay, WI 54302
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QUALITY CONTROL DATA

Project: 347145 WISDOT-OAKFIELD PH 2.5
Pace Project No.: 40195172

QC Batch: 336244 Analysis Method: EPA 8260
QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Normal List
Associated Lab Samples: 40195172011, 40195172012, 40195172013

METHOD BLANK: 1952272 Matrix: Solid
Associated Lab Samples: 40195172011, 40195172012, 40195172013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<13.7	50.0	10/02/19 13:53	
1,1,1-Trichloroethane	ug/kg	<14.4	50.0	10/02/19 13:53	
1,1,2,2-Tetrachloroethane	ug/kg	<17.5	50.0	10/02/19 13:53	
1,1,2-Trichloroethane	ug/kg	<20.2	50.0	10/02/19 13:53	
1,1-Dichloroethane	ug/kg	<17.6	50.0	10/02/19 13:53	
1,1-Dichloroethene	ug/kg	<17.6	50.0	10/02/19 13:53	
1,1-Dichloropropene	ug/kg	<14.0	50.0	10/02/19 13:53	
1,2,3-Trichlorobenzene	ug/kg	<17.0	50.0	10/02/19 13:53	
1,2,3-Trichloropropane	ug/kg	<22.3	50.0	10/02/19 13:53	
1,2,4-Trichlorobenzene	ug/kg	<47.6	250	10/02/19 13:53	
1,2,4-Trimethylbenzene	ug/kg	<12.2	50.0	10/02/19 13:53	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	250	10/02/19 13:53	
1,2-Dibromoethane (EDB)	ug/kg	<14.7	50.0	10/02/19 13:53	
1,2-Dichlorobenzene	ug/kg	<16.2	50.0	10/02/19 13:53	
1,2-Dichloroethane	ug/kg	<15.0	50.0	10/02/19 13:53	
1,2-Dichloropropane	ug/kg	<16.8	50.0	10/02/19 13:53	
1,3,5-Trimethylbenzene	ug/kg	<14.5	50.0	10/02/19 13:53	
1,3-Dichlorobenzene	ug/kg	<13.2	50.0	10/02/19 13:53	
1,3-Dichloropropane	ug/kg	<12.0	50.0	10/02/19 13:53	
1,4-Dichlorobenzene	ug/kg	<15.9	50.0	10/02/19 13:53	
2,2-Dichloropropane	ug/kg	<12.6	50.0	10/02/19 13:53	
2-Chlorotoluene	ug/kg	<15.8	50.0	10/02/19 13:53	
4-Chlorotoluene	ug/kg	<13.0	50.0	10/02/19 13:53	
Benzene	ug/kg	<9.2	20.0	10/02/19 13:53	
Bromobenzene	ug/kg	<20.6	50.0	10/02/19 13:53	
Bromochloromethane	ug/kg	<21.4	50.0	10/02/19 13:53	
Bromodichloromethane	ug/kg	<9.8	50.0	10/02/19 13:53	
Bromoform	ug/kg	<19.8	50.0	10/02/19 13:53	
Bromomethane	ug/kg	<69.9	250	10/02/19 13:53	
Carbon tetrachloride	ug/kg	<12.1	50.0	10/02/19 13:53	
Chlorobenzene	ug/kg	<14.8	50.0	10/02/19 13:53	
Chloroethane	ug/kg	<67.0	250	10/02/19 13:53	
Chloroform	ug/kg	<46.4	250	10/02/19 13:53	
Chloromethane	ug/kg	<20.4	50.0	10/02/19 13:53	
cis-1,2-Dichloroethene	ug/kg	<16.6	50.0	10/02/19 13:53	
cis-1,3-Dichloropropene	ug/kg	<16.6	50.0	10/02/19 13:53	
Dibromochloromethane	ug/kg	<17.9	50.0	10/02/19 13:53	
Dibromomethane	ug/kg	<19.3	50.0	10/02/19 13:53	
Dichlorodifluoromethane	ug/kg	<12.3	50.0	10/02/19 13:53	
Diisopropyl ether	ug/kg	<17.7	50.0	10/02/19 13:53	
Ethylbenzene	ug/kg	<12.4	50.0	10/02/19 13:53	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 347145 WISDOT-OAKFIELD PH 2.5
Pace Project No.: 40195172

METHOD BLANK: 1952272 Matrix: Solid
Associated Lab Samples: 40195172011, 40195172012, 40195172013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/kg	<24.5	50.0	10/02/19 13:53	
Isopropylbenzene (Cumene)	ug/kg	<12.6	50.0	10/02/19 13:53	
m&p-Xylene	ug/kg	<34.4	100	10/02/19 13:53	
Methyl-tert-butyl ether	ug/kg	<12.7	50.0	10/02/19 13:53	
Methylene Chloride	ug/kg	<16.2	50.0	10/02/19 13:53	
n-Butylbenzene	ug/kg	<10.5	50.0	10/02/19 13:53	
n-Propylbenzene	ug/kg	<11.6	50.0	10/02/19 13:53	
Naphthalene	ug/kg	<40.0	250	10/02/19 13:53	
o-Xylene	ug/kg	<14.0	50.0	10/02/19 13:53	
p-Isopropyltoluene	ug/kg	<12.0	50.0	10/02/19 13:53	
sec-Butylbenzene	ug/kg	<11.9	50.0	10/02/19 13:53	
Styrene	ug/kg	<9.0	50.0	10/02/19 13:53	
tert-Butylbenzene	ug/kg	<9.5	50.0	10/02/19 13:53	
Tetrachloroethene	ug/kg	<12.9	50.0	10/02/19 13:53	
Toluene	ug/kg	<11.2	50.0	10/02/19 13:53	
trans-1,2-Dichloroethene	ug/kg	<16.5	50.0	10/02/19 13:53	
trans-1,3-Dichloropropene	ug/kg	<14.4	50.0	10/02/19 13:53	
Trichloroethene	ug/kg	<23.6	50.0	10/02/19 13:53	
Trichlorofluoromethane	ug/kg	<24.7	50.0	10/02/19 13:53	
Vinyl chloride	ug/kg	<21.1	50.0	10/02/19 13:53	
4-Bromofluorobenzene (S)	%	103	54-126	10/02/19 13:53	
Dibromofluoromethane (S)	%	115	57-146	10/02/19 13:53	
Toluene-d8 (S)	%	109	64-134	10/02/19 13:53	

LABORATORY CONTROL SAMPLE: 1952273

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	3140	126	70-132	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2930	117	70-130	
1,1,2-Trichloroethane	ug/kg	2500	2670	107	70-130	
1,1-Dichloroethane	ug/kg	2500	3410	137	70-130	L1
1,1-Dichloroethene	ug/kg	2500	2710	108	77-126	
1,2,4-Trichlorobenzene	ug/kg	2500	2150	86	66-130	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2810	112	54-129	
1,2-Dibromoethane (EDB)	ug/kg	2500	2620	105	70-130	
1,2-Dichlorobenzene	ug/kg	2500	2820	113	70-130	
1,2-Dichloroethane	ug/kg	2500	3410	137	70-134	L1
1,2-Dichloropropane	ug/kg	2500	2710	108	74-124	
1,3-Dichlorobenzene	ug/kg	2500	2740	110	70-130	
1,4-Dichlorobenzene	ug/kg	2500	2760	110	70-130	
Benzene	ug/kg	2500	2880	115	70-130	
Bromodichloromethane	ug/kg	2500	2650	106	70-130	
Bromoform	ug/kg	2500	2220	89	47-115	
Bromomethane	ug/kg	2500	2500	100	64-165	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: 347145 WISDOT-OAKFIELD PH 2.5
Pace Project No.: 40195172

LABORATORY CONTROL SAMPLE: 1952273

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/kg	2500	2940	118	70-131	
Chlorobenzene	ug/kg	2500	2500	100	70-130	
Chloroethane	ug/kg	2500	2750	110	28-197	
Chloroform	ug/kg	2500	2990	120	80-131	
Chloromethane	ug/kg	2500	2280	91	45-118	
cis-1,2-Dichloroethene	ug/kg	2500	2860	114	70-130	
cis-1,3-Dichloropropene	ug/kg	2500	2510	100	70-130	
Dibromochloromethane	ug/kg	2500	2590	104	70-130	
Dichlorodifluoromethane	ug/kg	2500	1450	58	38-108	
Ethylbenzene	ug/kg	2500	2620	105	82-122	
Isopropylbenzene (Cumene)	ug/kg	2500	2660	106	70-130	
m&p-Xylene	ug/kg	5000	5350	107	70-130	
Methyl-tert-butyl ether	ug/kg	2500	3000	120	70-130	
Methylene Chloride	ug/kg	2500	2720	109	70-130	
o-Xylene	ug/kg	2500	2670	107	70-130	
Styrene	ug/kg	2500	2520	101	70-130	
Tetrachloroethene	ug/kg	2500	2370	95	70-130	
Toluene	ug/kg	2500	2690	108	80-121	
trans-1,2-Dichloroethene	ug/kg	2500	2930	117	70-130	
trans-1,3-Dichloropropene	ug/kg	2500	2750	110	70-130	
Trichloroethene	ug/kg	2500	2600	104	70-130	
Trichlorofluoromethane	ug/kg	2500	2810	112	81-141	
Vinyl chloride	ug/kg	2500	2370	95	68-121	
4-Bromofluorobenzene (S)	%			107	54-126	
Dibromofluoromethane (S)	%			119	57-146	
Toluene-d8 (S)	%			108	64-134	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 347145 WISDOT-OAKFIELD PH 2.5
Pace Project No.: 40195172

QC Batch: 334715 Analysis Method: EPA 8260
QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Short List
Associated Lab Samples: 40195172001, 40195172002, 40195172003, 40195172004, 40195172005, 40195172006, 40195172007

METHOD BLANK: 1943409 Matrix: Solid
Associated Lab Samples: 40195172001, 40195172002, 40195172003, 40195172004, 40195172005, 40195172006, 40195172007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	<12.2	50.0	09/20/19 16:34	
1,3,5-Trimethylbenzene	ug/kg	<14.5	50.0	09/20/19 16:34	
Benzene	ug/kg	<9.2	20.0	09/20/19 16:34	
Ethylbenzene	ug/kg	<12.4	50.0	09/20/19 16:34	
m&p-Xylene	ug/kg	<34.4	100	09/20/19 16:34	
Methyl-tert-butyl ether	ug/kg	<12.7	50.0	09/20/19 16:34	
Naphthalene	ug/kg	<40.0	250	09/20/19 16:34	
o-Xylene	ug/kg	<14.0	50.0	09/20/19 16:34	
Toluene	ug/kg	<11.2	50.0	09/20/19 16:34	
4-Bromofluorobenzene (S)	%	106	54-126	09/20/19 16:34	
Dibromofluoromethane (S)	%	112	57-146	09/20/19 16:34	
Toluene-d8 (S)	%	114	64-134	09/20/19 16:34	

LABORATORY CONTROL SAMPLE: 1943410

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/kg	2500	2070	83	70-130	
Ethylbenzene	ug/kg	2500	2650	106	82-122	
m&p-Xylene	ug/kg	5000	5250	105	70-130	
Methyl-tert-butyl ether	ug/kg	2500	2860	115	70-130	
o-Xylene	ug/kg	2500	2650	106	70-130	
Toluene	ug/kg	2500	2620	105	80-121	
4-Bromofluorobenzene (S)	%			113	54-126	
Dibromofluoromethane (S)	%			106	57-146	
Toluene-d8 (S)	%			111	64-134	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1943411 1943412

Parameter	Units	40195172003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/kg	<25.0	1420	1420	1210	1250	85	88	70-130	3	20	
Ethylbenzene	ug/kg	<25.0	1420	1420	1450	1450	102	102	80-122	0	20	
m&p-Xylene	ug/kg	<50.0	2840	2840	2920	2880	103	101	70-130	1	20	
Methyl-tert-butyl ether	ug/kg	<25.0	1420	1420	1690	1410	119	99	70-130	18	20	
o-Xylene	ug/kg	<25.0	1420	1420	1500	1440	106	102	70-130	4	20	
Toluene	ug/kg	<25.0	1420	1420	1480	1460	105	103	80-121	2	20	
4-Bromofluorobenzene (S)	%						113	113	54-126			
Dibromofluoromethane (S)	%						110	110	57-146			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 347145 WISDOT-OAKFIELD PH 2.5
Pace Project No.: 40195172

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1943411 1943412

Parameter	Units	40195172003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Toluene-d8 (S)	%						110	107	64-134			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 347145 WISDOT-OAKFIELD PH 2.5
Pace Project No.: 40195172

QC Batch: 334142 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40195172008, 40195172009, 40195172010

METHOD BLANK: 1940229 Matrix: Water
Associated Lab Samples: 40195172008, 40195172009, 40195172010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	09/17/19 13:47	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	09/17/19 13:47	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	09/17/19 13:47	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	09/17/19 13:47	
1,1-Dichloroethane	ug/L	<0.27	1.0	09/17/19 13:47	
1,1-Dichloroethene	ug/L	<0.24	1.0	09/17/19 13:47	
1,1-Dichloropropene	ug/L	<0.54	1.8	09/17/19 13:47	
1,2,3-Trichlorobenzene	ug/L	<0.63	5.0	09/17/19 13:47	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	09/17/19 13:47	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	09/17/19 13:47	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	09/17/19 13:47	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	09/17/19 13:47	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	09/17/19 13:47	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	09/17/19 13:47	
1,2-Dichloroethane	ug/L	<0.28	1.0	09/17/19 13:47	
1,2-Dichloropropane	ug/L	<0.28	1.0	09/17/19 13:47	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	09/17/19 13:47	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	09/17/19 13:47	
1,3-Dichloropropane	ug/L	<0.83	2.8	09/17/19 13:47	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	09/17/19 13:47	
2,2-Dichloropropane	ug/L	<2.3	7.6	09/17/19 13:47	
2-Chlorotoluene	ug/L	<0.93	5.0	09/17/19 13:47	
4-Chlorotoluene	ug/L	<0.76	2.5	09/17/19 13:47	
Benzene	ug/L	<0.25	1.0	09/17/19 13:47	
Bromobenzene	ug/L	<0.24	1.0	09/17/19 13:47	
Bromochloromethane	ug/L	<0.36	5.0	09/17/19 13:47	
Bromodichloromethane	ug/L	<0.36	1.2	09/17/19 13:47	
Bromoform	ug/L	<4.0	13.2	09/17/19 13:47	
Bromomethane	ug/L	<0.97	5.0	09/17/19 13:47	
Carbon tetrachloride	ug/L	<0.17	1.0	09/17/19 13:47	
Chlorobenzene	ug/L	<0.71	2.4	09/17/19 13:47	
Chloroethane	ug/L	<1.3	5.0	09/17/19 13:47	
Chloroform	ug/L	<1.3	5.0	09/17/19 13:47	
Chloromethane	ug/L	<2.2	7.3	09/17/19 13:47	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	09/17/19 13:47	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	09/17/19 13:47	
Dibromochloromethane	ug/L	<2.6	8.7	09/17/19 13:47	
Dibromomethane	ug/L	<0.94	3.1	09/17/19 13:47	
Dichlorodifluoromethane	ug/L	<0.50	5.0	09/17/19 13:47	
Diisopropyl ether	ug/L	<1.9	6.3	09/17/19 13:47	
Ethylbenzene	ug/L	<0.22	1.0	09/17/19 13:47	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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(920)469-2436

QUALITY CONTROL DATA

Project: 347145 WISDOT-OAKFIELD PH 2.5
Pace Project No.: 40195172

METHOD BLANK: 1940229 Matrix: Water
Associated Lab Samples: 40195172008, 40195172009, 40195172010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	09/17/19 13:47	
Isopropylbenzene (Cumene)	ug/L	<0.39	5.0	09/17/19 13:47	
m&p-Xylene	ug/L	<0.47	2.0	09/17/19 13:47	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	09/17/19 13:47	
Methylene Chloride	ug/L	<0.58	5.0	09/17/19 13:47	
n-Butylbenzene	ug/L	<0.71	2.4	09/17/19 13:47	
n-Propylbenzene	ug/L	<0.81	5.0	09/17/19 13:47	
Naphthalene	ug/L	<1.2	5.0	09/17/19 13:47	
o-Xylene	ug/L	<0.26	1.0	09/17/19 13:47	
p-Isopropyltoluene	ug/L	<0.80	2.7	09/17/19 13:47	
sec-Butylbenzene	ug/L	<0.85	5.0	09/17/19 13:47	
Styrene	ug/L	<0.47	1.6	09/17/19 13:47	
tert-Butylbenzene	ug/L	<0.30	1.0	09/17/19 13:47	
Tetrachloroethene	ug/L	<0.33	1.1	09/17/19 13:47	
Toluene	ug/L	<0.17	5.0	09/17/19 13:47	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	09/17/19 13:47	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	09/17/19 13:47	
Trichloroethene	ug/L	<0.26	1.0	09/17/19 13:47	
Trichlorofluoromethane	ug/L	<0.21	1.0	09/17/19 13:47	
Vinyl chloride	ug/L	<0.17	1.0	09/17/19 13:47	
4-Bromofluorobenzene (S)	%	94	70-130	09/17/19 13:47	
Dibromofluoromethane (S)	%	101	70-130	09/17/19 13:47	
Toluene-d8 (S)	%	100	70-130	09/17/19 13:47	

LABORATORY CONTROL SAMPLE: 1940230

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	52.6	105	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	51.8	104	70-130	
1,1,2-Trichloroethane	ug/L	50	49.7	99	70-130	
1,1-Dichloroethane	ug/L	50	59.4	119	73-150	
1,1-Dichloroethene	ug/L	50	55.6	111	73-138	
1,2,4-Trichlorobenzene	ug/L	50	49.4	99	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	46.6	93	64-129	
1,2-Dibromoethane (EDB)	ug/L	50	49.4	99	70-130	
1,2-Dichlorobenzene	ug/L	50	49.7	99	70-130	
1,2-Dichloroethane	ug/L	50	51.3	103	75-140	
1,2-Dichloropropane	ug/L	50	46.6	93	73-135	
1,3-Dichlorobenzene	ug/L	50	50.1	100	70-130	
1,4-Dichlorobenzene	ug/L	50	48.1	96	70-130	
Benzene	ug/L	50	50.5	101	70-130	
Bromodichloromethane	ug/L	50	47.4	95	70-130	
Bromoform	ug/L	50	43.1	86	68-129	
Bromomethane	ug/L	50	39.8	80	18-159	

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(920)469-2436

QUALITY CONTROL DATA

Project: 347145 WISDOT-OAKFIELD PH 2.5
Pace Project No.: 40195172

LABORATORY CONTROL SAMPLE: 1940230

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	50	48.4	97	70-130	
Chlorobenzene	ug/L	50	49.9	100	70-130	
Chloroethane	ug/L	50	45.9	92	53-147	
Chloroform	ug/L	50	47.8	96	74-136	
Chloromethane	ug/L	50	34.8	70	29-115	
cis-1,2-Dichloroethene	ug/L	50	49.1	98	70-130	
cis-1,3-Dichloropropene	ug/L	50	46.4	93	70-130	
Dibromochloromethane	ug/L	50	52.8	106	70-130	
Dichlorodifluoromethane	ug/L	50	21.7	43	10-130	
Ethylbenzene	ug/L	50	50.9	102	80-124	
Isopropylbenzene (Cumene)	ug/L	50	51.0	102	70-130	
m&p-Xylene	ug/L	100	102	102	70-130	
Methyl-tert-butyl ether	ug/L	50	48.3	97	54-137	
Methylene Chloride	ug/L	50	53.4	107	73-138	
o-Xylene	ug/L	50	49.6	99	70-130	
Styrene	ug/L	50	55.6	111	70-130	
Tetrachloroethene	ug/L	50	49.1	98	70-130	
Toluene	ug/L	50	49.5	99	80-126	
trans-1,2-Dichloroethene	ug/L	50	57.4	115	73-145	
trans-1,3-Dichloropropene	ug/L	50	51.4	103	70-130	
Trichloroethene	ug/L	50	48.4	97	70-130	
Trichlorofluoromethane	ug/L	50	54.1	108	76-147	
Vinyl chloride	ug/L	50	41.1	82	51-120	
4-Bromofluorobenzene (S)	%			100	70-130	
Dibromofluoromethane (S)	%			100	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1940287 1940288

Parameter	Units	40195192004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.24	50	50	52.1	55.9	104	112	70-130	7	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	50	50	51.5	56.1	103	112	70-130	9	20	
1,1,2-Trichloroethane	ug/L	<0.55	50	50	50.1	53.0	100	106	70-137	6	20	
1,1-Dichloroethane	ug/L	<0.27	50	50	58.5	63.2	117	126	73-153	8	20	
1,1-Dichloroethene	ug/L	<0.24	50	50	54.5	59.6	109	119	73-138	9	20	
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	49.9	54.1	100	108	70-130	8	20	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	47.7	52.8	95	106	58-129	10	20	
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	48.9	51.3	98	103	70-130	5	20	
1,2-Dichlorobenzene	ug/L	<0.71	50	50	51.0	55.0	102	110	70-130	8	20	
1,2-Dichloroethane	ug/L	<0.28	50	50	52.4	56.9	105	114	75-140	8	20	
1,2-Dichloropropane	ug/L	<0.28	50	50	47.6	50.0	95	100	71-138	5	20	
1,3-Dichlorobenzene	ug/L	<0.63	50	50	50.1	53.7	100	107	70-130	7	20	
1,4-Dichlorobenzene	ug/L	<0.94	50	50	48.9	52.4	97	104	70-130	7	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 347145 WISDOT-OAKFIELD PH 2.5
Pace Project No.: 40195172

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1940287 1940288

Parameter	Units	40195192004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	<0.25	50	50	50.4	53.9	101	108	70-130	7	20	
Bromodichloromethane	ug/L	<0.36	50	50	46.9	49.7	94	99	70-130	6	20	
Bromoform	ug/L	<4.0	50	50	44.6	47.4	89	95	68-129	6	20	
Bromomethane	ug/L	<0.97	50	50	42.1	46.8	84	94	15-170	11	20	
Carbon tetrachloride	ug/L	<0.17	50	50	49.2	53.3	98	107	70-130	8	20	
Chlorobenzene	ug/L	<0.71	50	50	50.0	53.2	100	106	70-130	6	20	
Chloroethane	ug/L	<1.3	50	50	46.5	49.9	93	100	51-148	7	20	
Chloroform	ug/L	<1.3	50	50	47.6	51.8	95	104	74-136	8	20	
Chloromethane	ug/L	<2.2	50	50	37.2	40.3	71	77	23-115	8	20	
cis-1,2-Dichloroethene	ug/L	<0.27	50	50	47.7	52.2	95	104	70-131	9	20	
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	48.9	50.9	98	102	70-130	4	20	
Dibromochloromethane	ug/L	<2.6	50	50	53.4	57.3	107	115	70-130	7	20	
Dichlorodifluoromethane	ug/L	<0.50	50	50	26.1	27.3	52	55	10-132	5	20	
Ethylbenzene	ug/L	<0.22	50	50	51.8	54.3	104	109	80-125	5	20	
Isopropylbenzene (Cumene)	ug/L	<0.39	50	50	51.9	54.7	104	109	70-130	5	20	
m&p-Xylene	ug/L	<0.47	100	100	103	109	103	109	70-130	6	20	
Methyl-tert-butyl ether	ug/L	<1.2	50	50	49.6	53.8	99	107	51-145	8	20	
Methylene Chloride	ug/L	<0.58	50	50	53.0	57.2	106	114	73-140	8	20	
o-Xylene	ug/L	<0.26	50	50	50.4	52.4	101	105	70-130	4	20	
Styrene	ug/L	<0.47	50	50	55.6	59.3	111	119	70-130	6	20	
Tetrachloroethene	ug/L	<0.33	50	50	49.4	52.0	99	104	70-130	5	20	
Toluene	ug/L	<0.17	50	50	49.6	52.5	99	105	80-131	6	20	
trans-1,2-Dichloroethene	ug/L	<1.1	50	50	56.7	60.9	113	122	73-148	7	20	
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	53.0	55.9	106	112	70-130	5	20	
Trichloroethene	ug/L	<0.26	50	50	48.9	51.4	98	103	70-130	5	20	
Trichlorofluoromethane	ug/L	<0.21	50	50	54.8	58.0	110	116	74-147	6	20	
Vinyl chloride	ug/L	<0.17	50	50	42.8	45.2	86	90	41-129	5	20	
4-Bromofluorobenzene (S)	%						101	99	70-130			
Dibromofluoromethane (S)	%						100	104	70-130			
Toluene-d8 (S)	%						98	99	70-130			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 347145 WISDOT-OAKFIELD PH 2.5
Pace Project No.: 40195172

QC Batch: 334485 Analysis Method: WI MOD DRO
QC Batch Method: WI MOD DRO Analysis Description: WIDRO GCS
Associated Lab Samples: 40195172004, 40195172006

METHOD BLANK: 1942125 Matrix: Solid
Associated Lab Samples: 40195172004, 40195172006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range Organics	mg/kg	<1.3	4.4	09/20/19 07:56	

LABORATORY CONTROL SAMPLE & LCSD: 1942126 1942127

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Diesel Range Organics	mg/kg	40	32.9	33.5	82	84	70-120	2	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 347145 WISDOT-OAKFIELD PH 2.5
Pace Project No.: 40195172

QC Batch: 335556 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40195172001, 40195172002, 40195172003, 40195172004, 40195172005, 40195172006, 40195172007

SAMPLE DUPLICATE: 1947953

Parameter	Units	40195172006 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	12.3	13.3	8	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALIFIERS

Project: 347145 WISDOT-OAKFIELD PH 2.5
Pace Project No.: 40195172

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

1q	Analyte recovery in the continuing calibration verification (CCV) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
2q	Approximately 4.08 mg/Kg of the GRO value is due to the addition of 8260 surrogate standards.
H1	Analysis conducted outside the recognized method holding time.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.
W	Non-detect results are reported on a wet weight basis.

Pace Analytical Services, LLC
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Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 347145 WISDOT-OAKFIELD PH 2.5
Pace Project No.: 40195172

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40195172004	**GP-04 (7.5-10' BGS)**	WI MOD DRO	334485	WI MOD DRO	334589
40195172006	**GP-06 (7.5-10' BGS)**	WI MOD DRO	334485	WI MOD DRO	334589
40195172004	**GP-04 (7.5-10' BGS)**	TPH GRO/PVOC WI ext.	334670	WI MOD GRO	334706
40195172006	**GP-06 (7.5-10' BGS)**	TPH GRO/PVOC WI ext.	334670	WI MOD GRO	334706
40195172011	**GP-05 (7.5-10' BGS)**	EPA 5035/5030B	336244	EPA 8260	336246
40195172012	**GP-06 (7.5-10' BGS)**	EPA 5035/5030B	336244	EPA 8260	336246
40195172013	**GP-07 (7.5-10' BGS)**	EPA 5035/5030B	336244	EPA 8260	336246
40195172001	**GP-01 (7.5-10' BGS)**	EPA 5035/5030B	334715	EPA 8260	334717
40195172002	**GP-02 (7.5-10' BGS)**	EPA 5035/5030B	334715	EPA 8260	334717
40195172003	**GP-03 (7.5-10' BGS)**	EPA 5035/5030B	334715	EPA 8260	334717
40195172004	**GP-04 (7.5-10' BGS)**	EPA 5035/5030B	334715	EPA 8260	334717
40195172005	**GP-05 (7.5-10' BGS)**	EPA 5035/5030B	334715	EPA 8260	334717
40195172006	**GP-06 (7.5-10' BGS)**	EPA 5035/5030B	334715	EPA 8260	334717
40195172007	**GP-07 (7.5-10' BGS)**	EPA 5035/5030B	334715	EPA 8260	334717
40195172008	**TW-04**	EPA 8260	334142		
40195172009	**TW-06**	EPA 8260	334142		
40195172010	**TRIP BLANK**	EPA 8260	334142		
40195172001	**GP-01 (7.5-10' BGS)**	ASTM D2974-87	335556		
40195172002	**GP-02 (7.5-10' BGS)**	ASTM D2974-87	335556		
40195172003	**GP-03 (7.5-10' BGS)**	ASTM D2974-87	335556		
40195172004	**GP-04 (7.5-10' BGS)**	ASTM D2974-87	335556		
40195172005	**GP-05 (7.5-10' BGS)**	ASTM D2974-87	335556		
40195172006	**GP-06 (7.5-10' BGS)**	ASTM D2974-87	335556		
40195172007	**GP-07 (7.5-10' BGS)**	ASTM D2974-87	335556		
40195172011	**GP-05 (7.5-10' BGS)**	ASTM D2974-87			
40195172012	**GP-06 (7.5-10' BGS)**	ASTM D2974-87			
40195172013	**GP-07 (7.5-10' BGS)**	ASTM D2974-87			

UPPER MIDWEST REGION
MN: 612-607-1700 **WI:** 920-469-2436

Pace Analytical®
www.pacelabs.com

JTB

40195172

CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)	
Company Name:	TRC Environmental
Branch/Location:	Madison
Project Contact:	Dan Haak
Phone:	(608) 826-3628
Project Number:	347145
Project Name:	WisDOT - Oakfield Ph 2.5
Project State:	WI
Sampled By (Print):	Tom L. Perkins
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	
Mail To Company:	
Mail To Address:	
Invoice To Contact:	
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, SI = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analyses Requested: VOCs	PVOCs + Naphthalene	GRO	DRO	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
					N	B		N	N	N			
					B	B		A	A				
001	GP-01 (7.5-10' bgs)	9/6/19	1245	S				X					
002	GP-02 (7.5-10' bgs)		1305	S				X					
003	GP-03 (7.5-10' bgs)		1330	S				X					
004	GP-04 (7.5-10' bgs)		1350	S				X	X	X			
005	GP-05 (7.5-10' bgs)		1520 1530	S				X			Sample Time: 1500		
006	GP-06 (7.5-10' bgs)		1600 1615	S				X	X	X	Sample Time: 1545		
007	GP-07 (7.5-10' bgs)		1620	S				X					
008	TW-04		1400	GW			X						
009	TW-06		1635	GW			X						
010	Trip Blank												
												X In shipment Lab added to COC 9/14/19 DG	

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge) Date Needed:	
Transmit Prelim Rush Results by (complete what you want):	
Email #1:	DHaak@TRCcompanies.com
Email #2:	TPerkins@TRCcompanies.com
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
	9/13/19 0800		
Walt Lo	9/14/19 1050		
		Received By:	Date/Time:
			9/14/19 1050
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:

PACE Project No. 40195172
Receipt Temp = 1.1 °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal Present / Not Present Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Sample Preservation Receipt Form

Client Name: TRC Env. Project # 401951.72

All containers needing preservation have been checked and noted below: □Yes □No ☒N/A

Lab Lot# of pH paper: Lab Std #ID of preservation (if pH adjusted):

Initial when completed: Date/ Time:

Pace Lab #	Glass: AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	Plastic: BP1U	BP2N	BP2Z	BP3U	BP3B	BP3N	BP3S	Vials: DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	Jars: JGFU	WGFU	WPFU	General: SP5T	ZPLC	GN	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001																			1			1											2.5 / 5 / 10
002																			1			1											2.5 / 5 / 10
003																			1			1											2.5 / 5 / 10
004																			1		1	1	1										2.5 / 5 / 10
005																			1				1										2.5 / 5 / 10
006																			1		1	1	1										2.5 / 5 / 10
007																			1				1										2.5 / 5 / 10
008																		3					X										2.5 / 5 / 10
009																		3					1										2.5 / 5 / 10
010																		2															2.5 / 5 / 10
011																																	2.5 / 5 / 10
012																																	2.5 / 5 / 10
013																																	2.5 / 5 / 10
014																																	2.5 / 5 / 10
015																																	2.5 / 5 / 10
016																																	2.5 / 5 / 10
017																																	2.5 / 5 / 10
018																																	2.5 / 5 / 10
019																																	2.5 / 5 / 10
020																																	2.5 / 5 / 10

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : □Yes □No ☒N/A *If yes look in headspace column

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	DG9A	40 mL amber ascorbic	JGFU	4 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL		
AG5U	100 mL amber glass unpres	BP3B	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			GN:	

Pace Analytical 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 25Apr2018
	Document No.: F-GB-C-031-Rev.07	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #: WO#: 40195172

Client Name: TRC Envi.

Courier: ☐ CS Logistics ☐ Fed Ex ☐ Speedee ☐ UPS ☑ Waltco ☐ Client ☐ Pace Other:

Tracking #: 2174015-1

Custody Seal on Cooler/Box Present: ☑ yes ☐ no Seals intact: ☑ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Thermometer Used SR - NA **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 2.1 /Corr:

Temp Blank Present: ☐ yes ☑ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

Person examining contents:
Date: 9/14/19
Initials: JG

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☐Yes ☑No ☐N/A	2. No pg #, mainly, Nesmile 9/14/19 JG
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No	6.
Rush Turn Around Time Requested:	☐Yes ☑No	7.
Sufficient Volume:		8.
For Analysis: ☑Yes ☐No MS/MSD:	☐Yes ☑No ☐N/A	
Correct Containers Used:	☑Yes ☐No	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix:	S/W	
Trip Blank Present:	☑Yes ☐No ☐N/A	13.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased):	427	

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: AL for TM **Date:** 9/14/19

Appendix G: Special Provisions

Excavation, Hauling, and Disposal of Contaminated Soil, Item _____.

A Description

A.1 General

This special provision describes excavating, loading, hauling, treatment, and disposing of contaminated soil at a WDNR-licensed disposal facility. The closest WDNR-licensed disposal facility is:

Glacier Ridge Landfill – Horicon, WI
N7296 Hwy V
Horicon, Wisconsin 53032

Waste Management Valley Trail Landfill
N9101 Willard Road
Berlin, Wisconsin 54923

Perform this work in accordance to standard spec 205 and with pertinent parts of Chapters NR 700-754 of the Wisconsin Administrative Code, as supplemented herein. Per NR 718.07, a solid waste collection and transportation service-operating license is required under NR 502.06 for each vehicle used to transport contaminated soil.

A.2 Notice to the Contractor – Contaminated Soil and Groundwater Locations

The department completed testing for soil contamination for locations within this project where excavation is required.

Contaminated soil is potentially present at the following location:

- 201 N. Main Street – Sta. 23+50 to Sta. 24+00 from reference line to project limits right.

Contaminated soils and/or underground storage tanks (USTs) may be encountered at other locations within the construction limits. If contaminated soils and/or USTs are encountered elsewhere on the project, terminate excavation activities in the area and notify the engineer and the environmental consultant. Contaminated soil at other locations shall be managed by the contractor under this contract. USTs will be removed by others.

For further information regarding previous investigation and remediation activities at these sites contact:

Name:	Daniel Haak
Address:	TRC Environmental Corporation 708 Heartland Trail, Suite 3000, Madison, WI 53717
Phone:	(608) 826-3628
Fax:	(608) 826-3941
e-mail:	dhaak@trccompanies.com

A.3 Coordination

Coordinate work under this Contract with the environmental consultant retained by the department:

Consultant:	TRC Environmental Corporation
Contact:	Mr. Dan Haak
Address:	708 Heartland Trail, Suite 3000, Madison, WI 53717
Phone:	(608) 826-3628
Fax:	(608) 826-3941
e-mail:	dhaak@trccompanies.com

The role of the environmental consultant will be limited to:

1. Determining the location and limits of contaminated soil to be excavated based on soil analytical results from previous investigations, visual observations, and field screening of soil that is excavated;

2. Identifying contaminated soils to be hauled to the disposal facility;

3. Documenting that activities associated with management of contaminated soil are in conformance with the contaminated soil management methods for this project as specified herein;

4. Obtaining the necessary approvals for disposal of contaminated soil from the disposal facility;

5. Determining the location and limits of contaminated water based on groundwater analytical results from previous investigations, visual observations, and/or field screening; and

6. Documenting that activities associated with management of contaminated water are in conformance with the contaminated water management methods for this project as specified herein.

Provide at least a 14-calendar day notice of the preconstruction conference date to the environmental consultant. At the preconstruction conference, provide a schedule for all excavation activities in the areas of contamination to the environmental consultant. Also notify the environmental consultant at least three calendar days prior to commencement of excavation activities in each of the contaminated areas.

Identify the DNR approved disposal facility that will be used for disposal of contaminated soils, and provide this information to the environmental consultant no later than 30 calendar days prior to commencement of excavation activities in the contaminated areas or at the preconstruction conference, whichever comes first. The environmental consultant will be responsible for obtaining the necessary approvals for disposal of contaminated soils from the disposal facility.

Coordinate with the environmental consultant to ensure that the environmental consultant is present during excavation activities in the contaminated areas. Perform excavation work in each of the contaminated areas on a continuous basis until excavation work is completed. Do not transport contaminated soil or pump contaminated groundwater offsite without prior approval from the environmental consultant.

A.4 Protection of Groundwater Monitoring Wells

Groundwater monitoring wells may be present within the construction limits. Protect all groundwater monitoring wells to maintain their integrity. Adjust wells that do not conflict with utilities, structures, curb and gutter, etc.to be flush with the final grade. For wells that conflict with the previously mentioned items, notify the environmental consultant, and coordinate with the environmental consultant for the abandonment or adjustment of the wells by others. The environmental consultant will provide maps indicating the locations of all known monitoring wells, if requested by the contractor.

A.5 Excavation Management Plan Approval

The excavation management plan for this project has been designed to minimize the off-site disposal of contaminated material. The excavation management plan, including these special provisions, has been developed in cooperation with the WDNR. The WDNR's concurrence letter is on file at the Wisconsin Department of Transportation. For further information regarding the investigations, including waste characterization within the project limits, contact Kathie Van Price with the department, at (920) 492-7175.

A.6 Health and Safety Requirements

Subsection 107.1 of the Standard Specifications is supplemented with the following:

During excavation activities, expect to encounter soil contaminated with gasoline, diesel fuel, fuel oil, or other petroleum related products; polycyclic aromatic hydrocarbons; and chlorinated solvents. Site workers taking part in activities that will result in the reasonable probability of exposure to safety and health hazards associated with hazardous materials shall have completed health and safety training that meets the Occupational Safety and Health Administration (OSHA) requirements for Hazardous Waste Operations and Emergency Response (HAZWOPER), as provided in 29 CFR 1910.120.

Prepare a site-specific Health and Safety Plan, and develop, delineate and enforce the health and safety exclusion zones for each contaminated site location as required by 29 CFR 1910.120. Submit the site-specific health and safety plan and written documentation of up-to-date OSHA training to the engineer prior to the start of work.

Disposal of contaminated soil at the bioremediation and disposal facility is subject to the facility's safety policies.

B (Vacant)

C Construction

Supplement standard spec 205.3 with the following:

The environmental consultant will periodically examine excavated soil during excavations in the areas of known soil contamination within the construction limits.

Control operations in the contaminated areas to minimize the quantity of contaminated soil excavated and to ensure that excavations do not extend beyond the minimum required to construct utilities and highway improvements unless expressly directed to do so by the engineer.

The environmental consultant will periodically evaluate soil excavated from the contaminated areas to determine if the soil will require offsite disposal or can be beneficially re-used on-site. The environmental consultant will evaluate excavated soil based on field screening results, visual observations, and soil analytical results from previous environmental investigations. Assist the environmental consultant in collecting soil samples for evaluation using excavation equipment. The sampling frequency shall be a maximum of one sample for every 20 cubic yards excavated.

On the basis of the results of such field-screening, the material will be designated for disposal as follows:

- Excavation Common consisting of clean soil and/or clean construction and demolition fill (such as clean soil, boulders, concrete, reinforced concrete, bituminous pavement, bricks, building stone, and unpainted or untreated wood), which under NR 500.08 are exempt materials, or

- Low-level contaminated material for reuse as fill within the construction limits, or

- Contaminated soil for off-site disposal at the WDNR-licensed disposal facility, or

- Potentially contaminated for temporary stockpiling and additional characterization prior to disposal

Some material may require additional characterization prior to disposal. Provide for the temporary stockpiling of up to 100 cubic yards of contaminated soil on-site that require additional characterization. Construct and maintain a temporary stockpile of the material in accordance with NR 718.05(3), including, but not limited to, placement of the contaminated soil/fill material on an impervious surface and covering the stockpile with impervious material to prevent infiltration of precipitation. The Department's environmental consultant will collect representative samples of the stockpiled material, laboratory-analyze the samples, and advise the contractor, within 10 business days of the construction of the stockpile, of disposal requirements. The stockpiled material shall be disposed either at the WDNR-licensed disposal facility by the contractor or, if characterized as hazardous waste, by the Department. As an alternative to temporarily stockpiling contaminated soil/fill material that requires additional characterization, the contractor has the option of suspending excavation in those areas where such soil is encountered until such time as characterization is completed.

Directly load and haul soils designated by the environmental consultant for off-site disposal to the DNR approved disposal facility. Use loading and hauling practices that are

appropriate to prevent any spills or releases of contaminated soils or residues. Prior to transport, sufficiently dewater soils designated for off-site disposal so as not to contain free liquids. Verify that the vehicles used to transport contaminated material are licensed for such activity in accordance with applicable state and federal regulations.

When material is encountered outside the above-identified limits of known contamination that appears to have been impacted with petroleum products, or when other obvious potentially contaminated materials are encountered or material exhibits characteristics of industrial-type wastes, such as fly ash, foundry sand, and cinders, or when underground storage tanks are encountered, suspend excavation in that area and notify the Engineer and the Environmental Consultant.

Groundwater is likely to be present within the construction limits. Employ construction methods and techniques in a manner that will minimize the need for dewatering, and if dewatering is required, minimize the volume of water generated. Take measures to limit groundwater, surface water, and precipitation from entering and exiting excavations in the areas of contamination. Such measures, which may include berming, ditching, or other means, shall be maintained until construction of utilities in the areas of contamination are complete.

Notify the environmental consultant prior to pumping contaminated groundwater.

The Village of Oakfield Wastewater Treatment Plant will determine if disposal of groundwater generated from the contaminated areas can be discharged into the sanitary sewer. Contact the Village of Oakfield Wastewater Treatment Plant at 920-539-6724 prior to the discharge of contaminated groundwater to the sanitary sewer. The Village of Oakfield may impose a sanitary sewer use fee and flow restrictions.

In lieu of disposal of groundwater generated from the contaminated areas in the sanitary sewer to the Village of Oakfield Wastewater Treatment Plant, pump contaminated water that exceeds surface water discharge limits, as determined by environmental consultant, into temporary holding tanks provided by others or an alternative discharge point as determined by the environmental consultant, as necessary to complete construction. Allow contaminated water encountered, but not requiring removal as a standard course of construction, to remain in-place and do not manage in accordance to this special provision.

The environmental consultant will coordinate approval of contaminated water hauling and disposal. Only pump contaminated groundwater if the environmental consultant is on-site.

Discharging contaminated groundwater to any location other than that approved and provided by the environmental consultant, is at the contractor's cost. If the contractor chooses alternate discharge, at the contractor's cost, obtain DNR concurrence on any dewatering plans, and provide and operate any and all treatment and discharge equipment required.

Ensure continuous dewatering and excavation safety at all times. Provide, operate, and maintain adequate pumping equipment and drainage and disposal facilities. Notify the

engineer of any dewatering activities, and obtain any permits necessary to discharge water. Provide copies of such permits to the engineer. Meet any requirements and pay any costs for obtaining and complying with such permit use. Follow all applicable legislative statues, judiciary decisions, and regulations of the State of Wisconsin.

Cost for contaminated groundwater collection and disposal is incidental to the project.

E Measurement

The department will measure Excavation, Hauling, and Disposal of Contaminated Soil in tons of contaminated soil accepted by the disposal facility as documented by weight tickets generated by the disposal facility.

F Payment

The department will pay for measured quantities at the contract unit price under the following bid item:

ITEM NUMBER	DESCRIPTION	UNIT
_____	Excavation, Hauling, and Disposal of Contaminated Soil (Direct Landfill)	Ton

Payment is full compensation for excavating, segregating, loading, hauling, treatment, and disposal of contaminated soil; tipping fees including applicable taxes and surcharges; obtaining solid waste collection and transportation service operating licenses; assisting in the collection of soil samples for field evaluation; dewatering of soils prior to transport, if necessary; and for furnishing all labor, tools, equipment, and incidentals necessary to complete the work in accordance with the Contract.