From: Ken Shimko <kshimko.meridianenv@gmail.com>
Sent: Wednesday, October 23, 2019 12:48 PM
To: Stoltz, Carrie R - DNR
Subject: Change Order - Wild Card Bar - Turtle Lake - Geoprobes & GW Sampling
Attachments: Change Order - Geoprobe GW Samples - Oct 2019.pdf

Please see attached.

Kenneth Shimko, PG
Meridian Environmental Consulting, LLC
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Fall Creek, Wisconsin 54742
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Email: kshimko.meridianenv@gmail.com

Meridian Environmental Consulting, LLC

October 23, 2019

Carrie Stoltz
Wisconsin Department of Natural Resources
107 Sutliff Ave
Rhinelander, WI 54501

Subject: **Change Order:**

- **Install six Geoprobe borings and temporary wells**
- **Collect soil and ground water samples from borings and temporary wells**
- **Sample monitoring well network**
- **Letter Report**

Former Wild Card Bar
301 N. Pine St
Turtle Lake, WI 54889
DNR BRRTS No. 03-03-110339
PECFA No. 54889-8000-01
Meridian No. 05F750

Scope of Work

The extent of naphthalene concentrations near TWM-15 and MW-5 is not defined downgradient (north) as well as side-gradient. Further definition was not planned in this area because the concentrations were low and limited to the shallow perched ground water (about 10 – 15 feet below grade). However, after these wells were installed and sampled, the lot has been subdivided and the wells are now located near property boundaries. Therefore, in order to complete the GIS Registry and Notifications, the extent of the naphthalene impacts must be defined.

We propose to accomplish this work by installing six Geoprobe borings in the locations shown on the attached Figure. The borings will be installed to 20 feet to allow for the collection of ground water samples from the perched ground water layer. Soil samples will be collected every 4 feet in each boring. Temporary wells will be installed in each boring to allow for the collection of a ground water sample from each boring. The temporary well will be removed and the borehole abandoned immediately after the ground water and soil samples are collected.

The ground water monitoring well network will be sampled the same week (weather permitting).

All soil and ground water samples will be analyzed for PVOC+Naphthalene.

A letter report will be prepared summarizing the work and results.

Cost

The cost for this work is provided using the current PECFA Usual & Customary Cost Schedule.

Sincerely,
MERIDIAN ENVIRONMENTAL CONSULTING, LLC

Kenneth Shimko, PG
Project Manager

Usual and Customary Standardized Invoice #26
July 2019 - December 2019

RR-111a

PECFA #: 54889-8000-01
BRRT's #: 03-03-110339
Site Name: Wild Card Bar
Site Address: Turtle Lake

Vendor Name: Change Order
Invoice #: Change Order
Invoice Date: October 23, 2019
Check #: Change Order

U&C Total $ 12,073.57
Variance to U&C Total $ -
Grand Total $ 12,073.57

TASK	TASK DESCRIPTION	SERVICES	ACTIVITY CODE	ACTIVITY REFERENCE CODE DESCRIPTION	UNIT		MAX UNIT COST	UNITS		TOTAL MAX
Install six soil borings (20 ft) with Geoprobe (6 x 20 = 120 ft). Collect soil samples every 4 feet & analyze for PVOC+Naphthalene (Total = 6 borings x 5 samples/borings = 30 soil samples). Install temporary well in each boring and collect ground water sample. Remove temporary well immediately and abandon borehole. Sample monitoring well network same time (TMW-1, TMW-2, TMW-9, TMW-12, TMW-15, MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, PZ-1, -2, -3, -4, -5, -6, -7, -8, -9A, -9B, -10, -11, -12, - 15) (PZ-13 & PZ-14 sampled by Metco for Pizza Place job)(Total = 26 GW samples). Analyze for PVOC+Naphthalene. Letter Report.									
1	GW Sampling		GS05	Sample Collection	Well	$	74.62	26	$	1,940.12
1	GW Sampling		GS25	Primary Mob/Demob	Site	$	690.92	1	$	690.92
4	Waste Disposal	Consultant	WD05	Consultant Coordination	Site	$	141.24	1	$	141.24
4	Waste Disposal	Commodity	WD10	GW Sample and/or Purge	Drum	$	43.37	2	$	86.74
4	Waste Disposal	Commodity	WD15	Drill Cuttings	Drum	$	111.39	1	$	111.39
4	**Waste Disposal**	**Commodity**	**WD17**	**Landfill Environmental Fee (provide documentation)**	***ACTUAL COST***					
4	Waste Disposal	Commodity	WD25	Primary Mob/Demob	Site	$	316.47	1	$	316.47
6	Letter Report/Addendum		LRA05	Letter Report/Addendum	Letter	$	1,070.47	1	$	1,070.47
12	Direct Push	Consultant	DP05	0 - 24 ft bgs W/ Continuous Soil Sampling	Ft	$	5.52	120	$	662.40
12	Direct Push	Consultant	DP20	GW Sample Collection	Each	$	37.18	6	$	223.08
12	Direct Push	Consultant	DP25	Temporary Well Installation	Each	$	51.40	6	$	308.40
12	Direct Push	Consultant	DP30	Primary Mob/Demob	Site	$	563.31	1	$	563.31
12	Direct Push	Commodity	DP35	0 - 24 ft bgs W/ Continuous Soil Sampling	Ft	$	7.14	120	$	856.80
12	Direct Push	Commodity	DP50	GW Sample Collection (cost for tubing)	Ft	$	0.43	120	$	51.60
12	Direct Push	Commodity	DP55	Expendable Drive Point	Each	$	14.92	6	$	89.52
12	Direct Push	Commodity	DP60	Borehole Abandonment	Ft	$	1.30	120	$	156.00
12	Direct Push	Commodity	DP70	GW Sample Collection	Each	$	40.45	6	$	242.70
12	Direct Push	Commodity	DP75	Temporary Well Installation	Ft	$	5.41	120	$	649.20
12	Direct Push	Commodity	DP80	Mob/Demob (Includes decon)	Site	$	578.66	1	$	578.66
15	**Misc. Drilling Activities & Supplies**		**MDT41**	**Private Utility Locate**	**ACTUAL COST**			**1**	**$**	**-**
21	Access Agreements		AA05	Access Agreements	Property	$	414.00	2	$	828.00
33	Schedule Of Laboratory Maximums	Commodity		Laboratory (see task 33 total on Lab Schedule)	Lab Schedule				$	2,113.32
36	Change Order Request		COR05	Change Order Request (cost cap exceedance requests)	Change Order	$	393.23	1	$	393.23
Variance										
Variance										

Usual and Customary Standardized Invoice #26
July 2019 - December 2019 (Interim)

WISCONSIN DEPT. OF NATURAL RESOURCES

RR-111a

			TOTAL LAB CHARGES	**$**	**2,113.32**	**TASK 33**	**62**	**$**	**2,113.32**	**TASK 24**	**0**	**$ -**
MATRIX	REF CODE	REIMBURSABLE ANALYTE	UNITS		MAX COST	SAMPLES		TOTAL		MAX COST	SAMPLES	TOTAL
AIR	A1	Benzene	SAMPLE	$	46.29		$	-				
AIR	A2	BETX	SAMPLE	$	50.94		$	-				
AIR	A3	GRO	SAMPLE	$	47.48		$	-				
AIR	A4	VOC's	SAMPLE	$	74.09		$	-				
WATER	W1	GRO/PVOC	SAMPLE	$	30.07		$	-				
WATER	W2	PVOC	SAMPLE	$	27.80		$	-				
WATER	W3	PVOC + 1,2 DCA	SAMPLE	$	45.10		$	-				
WATER	W4	PVOC + Naphthalene	SAMPLE	$	31.26	32	$	1,000.32				
WATER	W5	VOC	SAMPLE	$	74.09		$	-				
WATER	W6	PAH	SAMPLE	$	75.17		$	-				
WATER	W7	Lead	SAMPLE	$	12.76		$	-				
WATER	W8	Cadmium	SAMPLE	$	13.96		$	-				
WATER	W9	Hardness	SAMPLE	$	12.76		$	-				
WATER	W10	BOD, Total	SAMPLE	$	24.34		$	-				
WATER	W11	Nitrate	SAMPLE	$	11.58		$	-				
WATER	W12	Total Kjeldahl	SAMPLE	$	20.88		$	-				
WATER	W13	Ammonia	SAMPLE	$	17.42		$	-				
WATER	W14	Sulfate	SAMPLE	$	10.50		$	-				
WATER	W15	Iron	SAMPLE	$	10.50		$	-				
WATER	W16	Manganese	SAMPLE	$	10.50		$	-				
WATER	W17	Alkalinity	SAMPLE	$	10.50		$	-				
WATER	W18	methane	SAMPLE	$	47.48		$	-				
WATER	W19	Phosphorous	SAMPLE	$	18.60		$	-				
WATER	W20	VOC Method 524.2	SAMPLE	$	181.59		$	-				
WATER	W21	EDB Method 504	SAMPLE	$	98.31		$	-		MAX COST	SAMPLES	TOTAL
SOILS	S1	GRO	SAMPLE	$	25.52		$	-	$	25.52		$ -
SOILS	S2	DRO	SAMPLE	$	31.26		$	-	$	31.26		$ -
SOILS	S3	GRO/PVOC	SAMPLE	$	28.98		$	-	$	28.98		$ -
SOILS	S4	PVOC	SAMPLE	$	26.60		$	-	$	26.60		$ -
SOILS	S5	PVOC + 1,2 DCA + Naphthalene	SAMPLE	$	50.94		$	-	$	50.94		$ -
SOILS	S6	PVOC + Naphthalene	SAMPLE	$	37.10	30	$	1,113.00	$	37.10		$ -
SOILS	S7	VOC	SAMPLE	$	74.09		$	-	$	74.09		$ -
SOILS	S8	SPLP Extraction VOC only	SAMPLE	$	52.13		$	-	$	52.13		$ -
SOILS	S9	PAH	SAMPLE	$	75.17		$	-	$	75.17		$ -
SOILS	S10	Lead	SAMPLE	$	12.76		$	-	$	12.76		$ -
SOILS	S11	Cadmium	SAMPLE	$	15.04		$	-			**TASK 24 TOTAL**	**$ -**
SOILS	S12	Free Liquid	SAMPLE	$	11.58		$	-				
SOILS	S13	Flash Point	SAMPLE	$	26.60		$	-				
SOILS	S14	Grain Size - dry	SAMPLE	$	44.02		$	-				
SOILS	S15	Grain Size - wet	SAMPLE	$	59.05		$	-				
SOILS	S16	Bulk Density	SAMPLE	$	13.96		$	-				
SOILS	S17	Permeability	SAMPLE	$	42.83		$	-				
SOILS	S18	Nitrogen as Total Kjeldahl	SAMPLE	$	20.88		$	-				
SOILS	S19	Nitrogen as Ammonia	SAMPLE	$	17.42		$	-				
SOILS	S20	% Organic Matter	SAMPLE	$	30.07		$	-				
SOILS	S21	TOC as NPOC	SAMPLE	$	59.05		$	-				
SOILS	S22	Soil Moisture Content	SAMPLE	$	7.03		$	-				
SOILS	S23	Air Filled Porosity	SAMPLE	$	26.60		$	-				
SOILS	S24	% Total Solids	SAMPLE	$	7.03		$	-				
SOILS	S25	Field Capacity	SAMPLE	$	28.98		$	-				
SOILS	S26	TCLP Lead	SAMPLE	$	85.65		$	-				
SOILS	S27	Cation Exchange (Ca, MG, & K)	SAMPLE	$	27.80		$	-				
SOILS	S28	TCLP Cadmium	SAMPLE	$	85.65		$	-				
SOILS	S29	TCLP Benzene	SAMPLE	$	85.65		$	-				
LNAPL	LFPS01	Viscosity + Density Interfacial tension I (LNAPL/water [dyne/cm]) Interfacial tension II (LNAPL/air [dyne/cm]) Interfacial tension III (water/air) [dyne/cm])	SAMPLE	$	578.17		$	-				
						TASK 33 TOTAL	**$**	**2,113.32**				

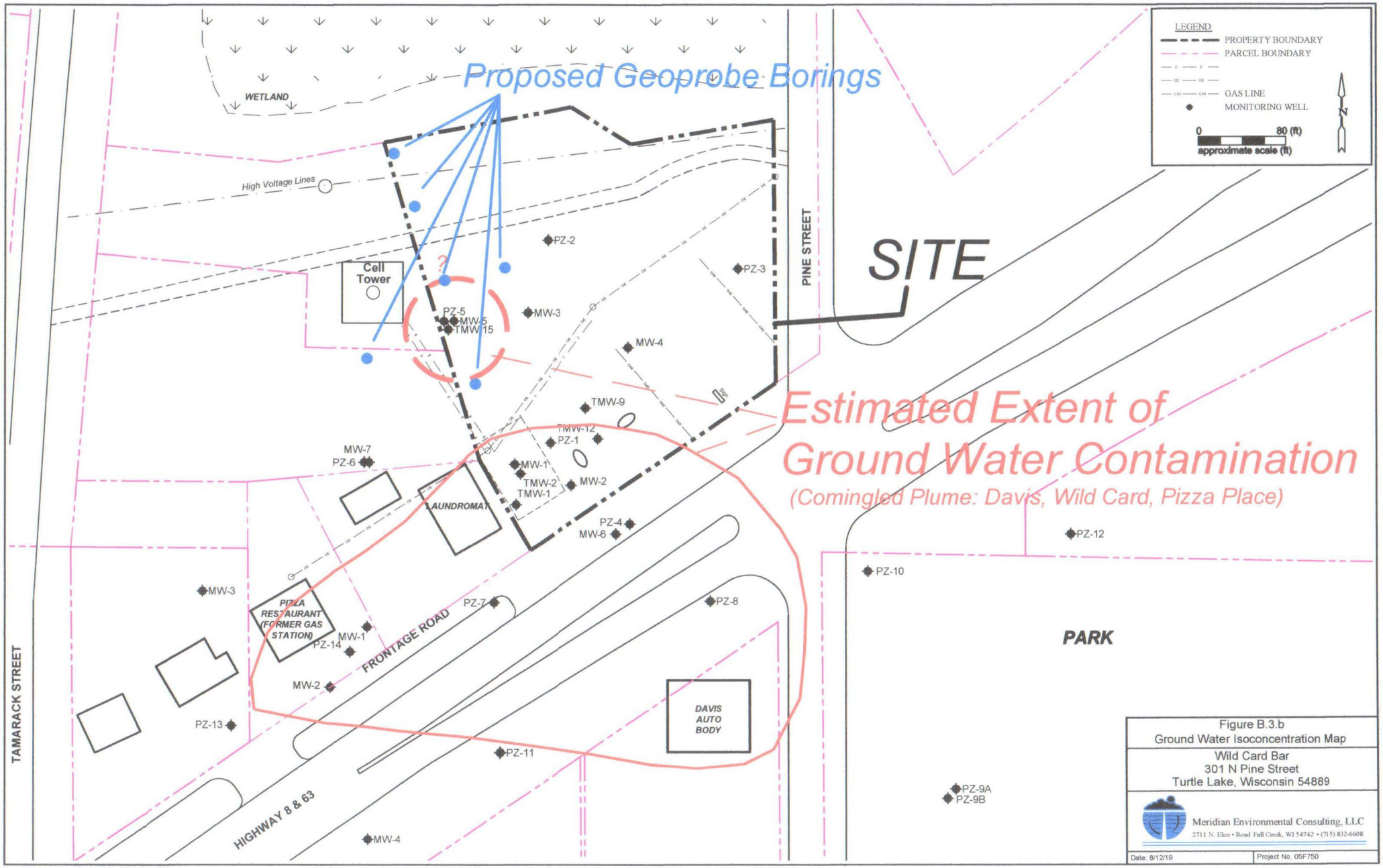

Figure B.3.b
Ground Water Isoconcentration Map
Wild Card Bar
301 N Pine Street
Turtle Lake, Wisconsin 54889

Meridian Environmental Consulting, LLC
2711 N. Elco • Road Fall Creek, WI 54742 • (715) 832-6608

Date: 8/12/19 | Project No. 05F750

File: WCB_TurtleLake_05F750(2000).dwg Date: 8/12/19

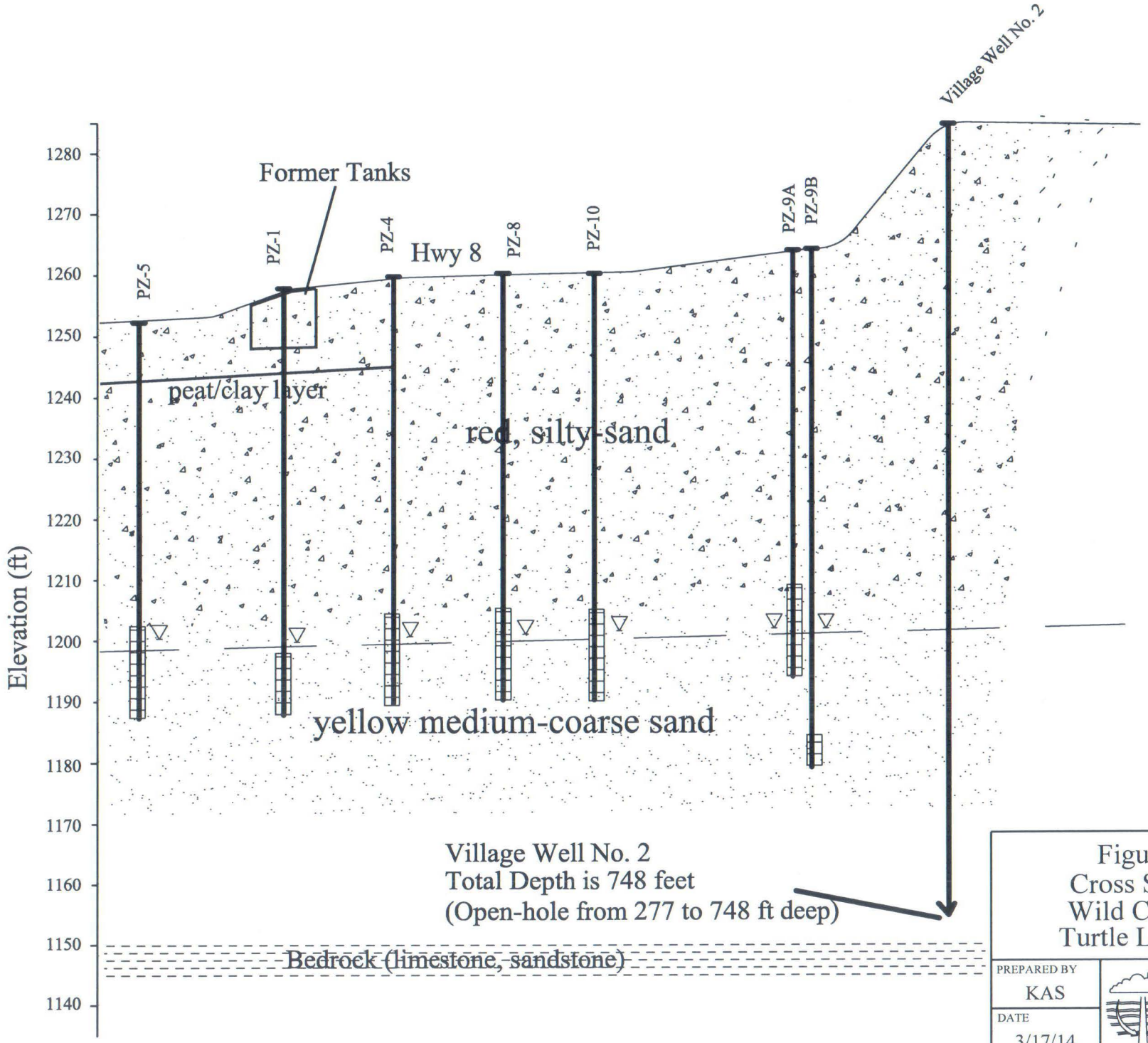

Figure 2
Cross Section
Wild Card Bar
Turtle Lake, WI

PREPARED BY
KAS

DATE
3/17/14

Meridian Environmental Consulting, LLC

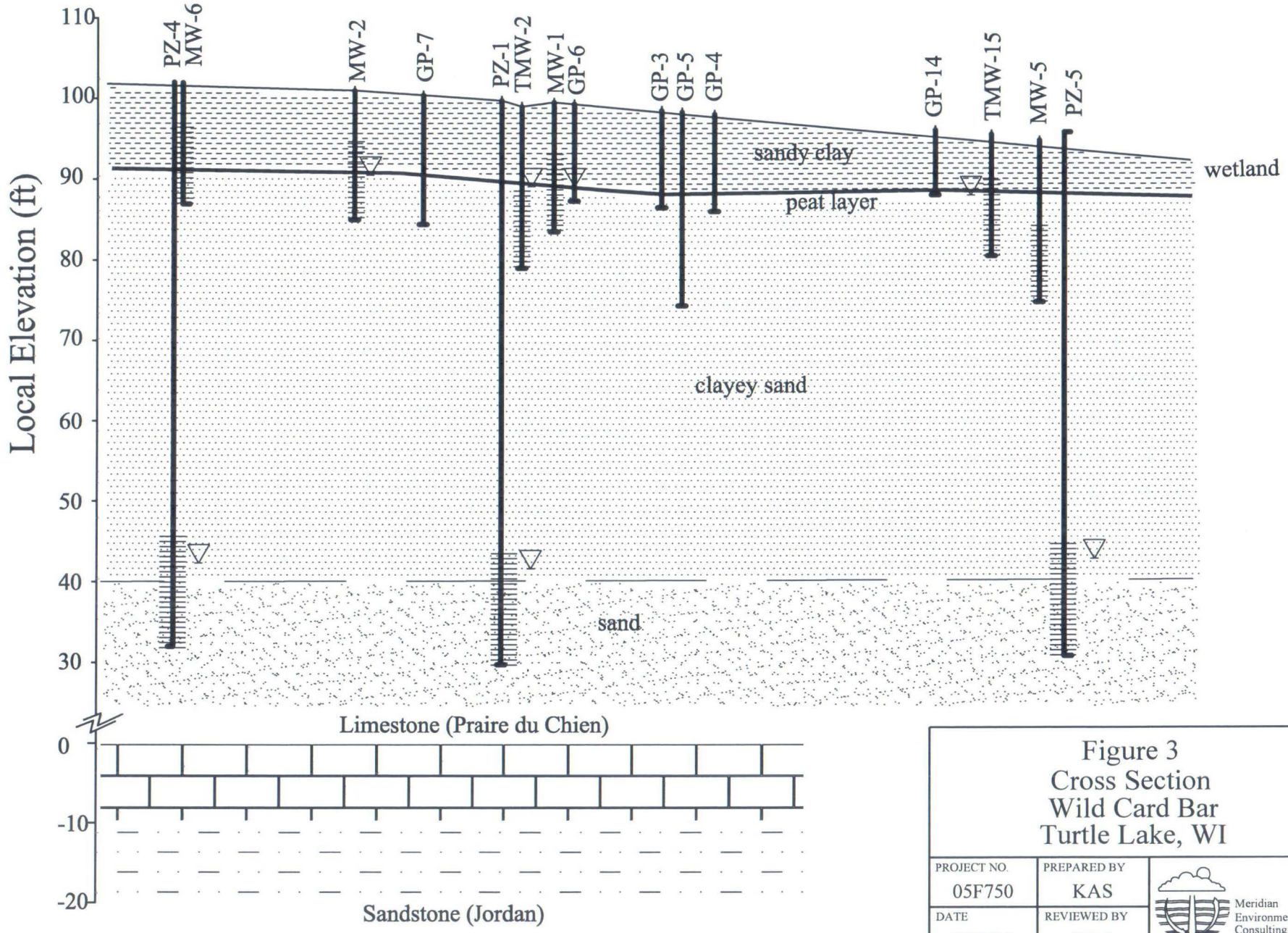

Figure 3
Cross Section
Wild Card Bar
Turtle Lake, WI

PROJECT NO.	PREPARED BY
05F750	KAS
DATE	REVIEWED BY
3/27/11	KAS

Meridian Environmental Consulting, LLC