Stoltz, Carrie R - DNR

From:

Ken Shimko <kshimko.meridianenv@gmail.com>

Sent:

Friday, May 19, 2017 4:36 AM

To:

Stoltz, Carrie R - DNR

Subject:

Odau Excavation

Hi Carrie.

I am trying to re-start this project...

Please recall that we stalled while I talked to landowner (Shawn McNamar) about the work and signing a release. I spoke with Mr. McNamar and he complained the work would remove the concrete pad in front of his house (he bought the house a few years ago after the previous excavation). I contacted Olynick who said they would replace pad (site prep, provide concrete, forms, etc.) for \$1500. The work would/could be done at later date to allow settling.

Can you add \$1500 to Change Order for this concrete?

That should be all that remains to complete the work.

Thanks

Kenneth Shimko, PG
Meridian Environmental Consulting, LLC
2711 North Elco Road
Fall Creek, Wisconsin 54742
(715)832-6608 (office)
(715)579-0723 (cell)
(715)832-6797 (Fax)
Email: kshimko.meridianenv@gmail.com

From: Robinson, John H - DNR [mailto:John.Robinson@wisconsin.gov]

Sent: Thursday, March 30, 2017 2:06 PM

To: Ken Shimko < kshimko < kshimko.meridianenv@gmail.com > Subject: RE: Odau - call with landowner (Shawn McNamar)

Ken

Thanks for your work on this.

We are committed to service excellence.

Visit our survey at http://dnr.wi.gov/customersurvey to evaluate how I did.

John Robinson

Phone: (715) 359-8932 John.Robinson@wisconsin.gov

	Quotation			
From: John S Olynick Inc. N7918 State Hwy 73 Gilman, Wi 54433 715-668-5211 715-668-5710 Fax olynick@centurytel.net To: Meridian Environmental		000	•*	, Pride and Service
Environmental			Please	let us quote you on ext project!
Quantity	Description	Price	Unit	Amount
	Quote Includes:			
	Westanco			
	- Install 4" Concrete slab in from	L		
***************************************	Of Entrance Door	<u></u>		
	Or (mixed, Da))			
***************************************	- Includes prep., Concrete, Finishin	A.1		
	INCOMES PICE, TOURISM	<u>"9- </u>		
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				E I COLL
, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999,	Total			# 1500.00
		_		
The state of the s				

All material is taxed unless exempt (proof required)
Quote will be in effect after Signed by both parties
Quote will be vaild during the 2017 construction season
Unsigned quote is non-binding
Sign and Return Both Copies

By:	By:	



Meridian Environmental Consulting, LLC

March 8, 2017

Carrie Stoltz Wisconsin Department of Natural Resources 107 Sutliffe Ave Rhinelander, WI 54501-3349

Subject:

Change Order

Vapor IntrusionRemedial Excavation

Site:

Odau Station (also known as: Bud's Service Station)

Westboro, Wisconsin

DNR BRRTS No. 03-61-000014 PECFA No. 54490-0127-83 Meridian No. 05F754

Dear Carrie:

This Change Order is for a Vapor Intrusion Investigation and additional source control excavation.

Additional Source Excavation

Please recall the original excavation (2009) removed as much source soil as technically practicable (Figure 1). Due to a structural impediment (see photographs in Appendix A), DNR and PECFA staff approved leaving the soils beneath and near the former pump island. These soils contained petroleum impacts (Table 1).

The site was submitted for Closure in the fall of 2014. Closure was denied and the Closure Committee requested the source soils beneath the support post be removed.

For the past year, Meridian has experienced difficulty finding contractors willing to work around the structural impediment in the proposed excavation area. A contractor from Eau Claire was found who is willing to do the work provided they are not liable for any structural damage from removing the post.

Meridian shares this concern. Because of this concern, it is our recommendation that the additional excavation is not necessary and this site should be Closed with a Structural Impediment.

However, if the excavation is required, Meridian will require a signed agreement from the current property owner releasing Meridian and its subcontractors from any liability associated with excavating beneath the load-bearing structural support.

Odau (aka Bud's Service) BRRTS 03-61-000014/PECFA 54490-0127-83) Page 2

Upon receipt of the above signed release, Meridian will complete a soil excavation to the extent practicable as shown in Figure 1. For budgeting purposes, we estimate up to 500 tons of impacted soil will need to be removed; the actual tonnage will likely be less (possibly half).

Prior to the excavation, a laminated support beam will be installed spanning the planned excavation area. The beam will support the structural load-bearing I-beam currently in place (see photographs in Appendix A). The support post will be removed to allow the excavation to proceed. The cement will be removed (sawcut where necessary). Impacted soil will be removed to the extent possible without affecting the structural stability of the house, basement, sidewalk, utility pole, etc.

When the excavation is completed, a concrete disk will be placed on the floor of the excavation. A concrete 'frost-tube' will be placed on this disk and the soil backfilled around it, compacted, and finished with gravel. The 'frost-tube' will be filled with concrete. The concrete will be allowed to cure (at least one week). A support post will then be installed and the temporary laminated beam removed.

The elevation of the I-beam will be surveyed before and after the excavation to document the I-beam did not move. The new support post will be adjustable to accommodate any settling that might occur.

This method should sustain the structural integrity of the building. However, slight settling is still possible. This is why a liability release is required before the work can be completed.

We repeat our recommendation the soil be left in place and the site Closed with a Structural Impediment.

Vapor Intrusion Screening and Investigation Work Plan

Petroleum-impacted soil and ground water release petroleum vapors which can migrate to and into buildings, basements, and buried utilities.

The potential for vapor intrusion was evaluated at this site by identifying potential vapor receptors and then using screening criteria to determine if further investigation is needed. This evaluation is described below. Refer to Figure 2 for reference.

Potential vapor receptors

• Source Property (W8883 Business Hwy 13)

This building rests on a crawlspace except for a small cellar beneath the northeast corner of the building (Figure 2). The cellar dimensions are 18 ft x 12 ft x 6 ft deep. It has a dirt floor with cement/rock walls (see photographs in Appendix A). The water and sewer connections are located in the cellar (entering from north side of building).

Residence located at W8879 Business Hwy 13

This building is a residence with a basement.

Odau (aka Bud's Service) BRRTS 03-61-000014/PECFA 54490-0127-83) Page 3

• Peterson Machine Shop (W8882 Business Hwy 13)

This building was formerly used for machining activities (e.g., metals). The building is a single story and rests on a concrete slab. The business is no longer active (at the time of this report).

There is an old garage located south of the main building. The garage is part of this same property. It is unknown if the garage has a cement floor or dirt floor. The garage is in older condition.

Sewer lines

There are water and sewer lines underneath Business Hwy. 13 and North Street.

Vapor Intrusion Screening Criteria Evaluation

• Free-phase product that has the potential for off-gassing vapors underlies a building or is within 30 feet, horizontally or vertically, of a building foundation

LNAPL has been measured (less than 1 inch) in MW-12 which is adjacent to Peterson Machine Shop (W8882 Bus Hwy 13). No LNAPL was measured during the past year of monitoring.

No LNAPL has been measured in any other wells since the remedial excavation (which removed LNAPL impacts from the source property).

• Petroleum contaminated soils with the potential for off-gassing vapors are within 5 feet or less of a building foundation

The majority of impacted source soil was removed in 2009 (Figure 1). Confirmation samples were collected from the perimeter of the soil excavation (Table 1). A soil sample collected from the north end of the dispenser island (beneath a building support) had concentrations above cleanup standards.

Based on this data, residual petroleum contaminated soils with the potential for off-gassing vapors are within 5 feet of the house building foundation.

• Ground water contaminated with petroleum product above NR140 PAL is entering a building or in contact with the building's foundation, or is in water intercepted by the building's foundation drain system, including sumps.

No ground water with PAL exceedances is in contact with any of the above building foundations.

• Petroleum vapors are present that may migrate from the petroleum source and move through preferential pathways (sewer lines, fractured bedrock, etc.) into the building.

The impacted ground water is located at a depth of about 10 - 20 feet (fluctuates seasonally). Water and sewer lines are typically less than 10 feet. Therefore, the water and sewer lines are not expected to intersect the water table. However, petroleum vapors may be in the soil around water and sewer lines immediately east of the site (beneath Business Hwy. 13).

Odau (aka Bud's Service) BRRTS 03-61-000014/PECFA 54490-0127-83) Page 4 Recommendations

Based on the screening criteria, we recommend a vapor intrusion investigation to determine if petroleum vapors are impacting the source building/property (W8883) and the Peterson Machine Shop (W8882).

We plan to install 15 soil probes around the perimeter of the onsite building and Peterson Machine as shown in Figure 2. The borings will be 5 feet deep. A Geoprobe unit will be used to drill to the desired depth.

In addition, a probe will be installed in the cellar dirt floor by hand (estimated depth of 2-4 ft below floor). This probe will be sampled twice (summer, winter).

Air will be purged from each soil probe and tested for Oxygen using a LEL/Oxygen handheld meter. The soil gas will also be field tested with a PID for VOCs. A Summa canister will be used to collect an air sample (TO-15 PVOC) from the soil probe.

Ground Water Monitoring

The monitoring well network was sampled quarterly from November 2014 to June 2016. There are two sampling events remaining under the current budget.

If DNR requires the soil excavation (above), we will complete the two quarterly sampling events after the excavation.

If DNR concurs with our recommendation that additional excavation is not warranted due to the Structural Impediment, we will complete the remaining two quarterly sampling events immediately.

Reporting

A report documenting the above tasks will be submitted upon completion. This report will include our recommendations regarding further work and/or Closure with GIS Registry for Soil and Ground Water.

Odau (aka Bud's Service) BRRTS 03-61-000014/PECFA 54490-0127-83) Page 5

COST

Enclosed is a Cost Estimate for this work. This cost utilized the U&C Cost Schedule wherever possible.

Other costs were obtained as follows (documentation is provided in Appendix B):

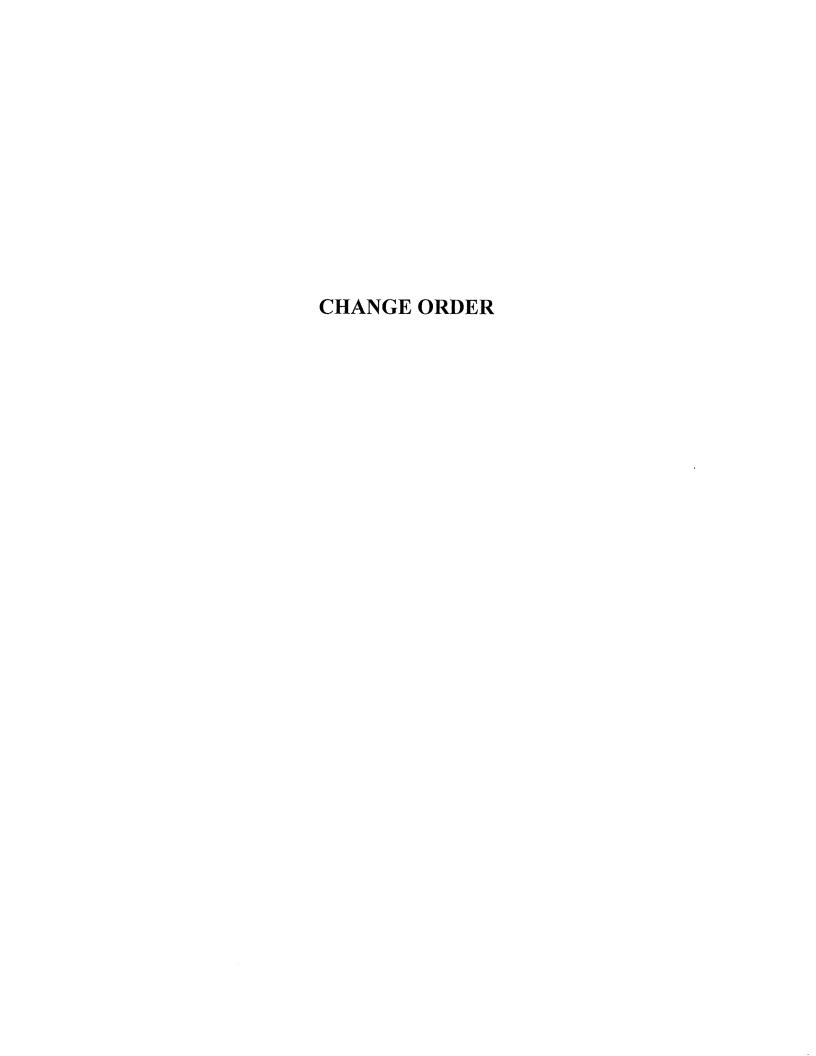
- Commodity bidding was used to select the excavation contractor.
- We could only find one contractor willing to do the structural support task.
- Vapor intrusion costs include variance costs and the U&C schedule where possible.

We will proceed upon authorization.

Sincerely,

MERIDIAN ENVIRONMENTAL CONSULTING, LLC

Kenneth Shimko, Po Project Manager



Usual and Customary Standardized Invoice #19 January 2016 - June 2016





 PECFA #:
 54490-0127-83
 Vendor Name: Change Order

 BRRT's #:
 03-61-000014
 Invoice #:
 Change Order

 Site Name:
 Odau
 Invoice Date:
 March 2017

 Site Address:
 Westboro
 Check #:
 Change Order

U&C Total \$ 39,693.11 Variance to U&C Total \$ 17,273.68 Grand Total \$ 56,966.79

Sile Address.	vvestboro		Check #.	Change Order	-		Grand Total	\$ 56,966.79
TASK	TASK DESCRIPTION	SERVICES	ACTIVITY CODE	ACTIVITY REFERENCE CODE DESCRIPTION	UNIT	MAX UNIT COST	UNITS	TOTAL MAX
15 Vapor In	trusion Probes (5 ft deep)	(see Vari	ance bel	ow for additional costs). Report. (🗽	tside)			
V 6	Letter Report/Addendum		LRA05	Letter Report/Addendum	Letter	\$ 1,039.29	1 :	\$ 1,039.29
12	Direct Push	Consultant	DP15	GW Profiling (No Soil Sampling)	Ft	\$ 2.31	75	\$ 173.25
12	Direct Push	Consultant	DP30	Primary Mob/Demob	Site	\$ 512.09	1 3	\$ 512.09
12	Direct Push	Commodity	DP45	GW Profiling (no soil sampling)	Ft	\$ 6.51	75	\$ 488.25
12	Direct Push	Commodity	DP50	GW Sample Collection (cost for tubing)	Ft	\$ 0.42	75	\$ 31.50
12	Direct Push	Commodity	DP55	Expendable Drive Point	Each	\$ 14.49	15	\$ 217.35
12	Direct Push	Commodity	DP60	Borehole Abandonment	Ft	\$ 1.26	75 \$	\$ 94.50
12	Direct Push	Commodity	DP65	Concrete Penetration	Each	\$ 20.06	5 5	\$ 100.28
12	Direct Push	Commodity	DP80	Mob/Demob (Includes decon)	Ls	\$ 526.05	1 3	\$ 526.05
15	Misc. Drilling Activities & Supplies		MDT41	Private Utility Locate	Each	\$ 117.18	1 5	\$ 117.18
20	Soil Boring/Monitoring Well Permits		SBMWP05	Soil Boring/Monitoring Well Permit	Permit	\$ 246.12	1 5	\$ 246.12
21	Access Agreements		AA05	Access Agreements (Peterson Machine, Sean McNamar)	Property	\$401.94	2 \$	\$ 803.88
(31)	Consultant Overnight Per Diem		COPD05	Overnight (1 - Vapor Probes)	Night	\$ 113.72		
V15	Misc. Drilling Activities & Supplies	Commodity	MDT25	Commodity Service Provider Per Diem (drilling and direct pu		\$203.28	2 5	\$ 406.56
Source Con confirmatio		s vapor i	ntrusion	concerns (estimate up to 500 tons). A	bandon MW	V-2 if necess	ary. 8	
8	Well Abandonment	Consultant	WAB05	Coordination	Site	\$ 162.86	1.5	\$ 162.86
8	Well Abandonment	Consultant	WAB03 WAB10	Water column < 30 ft	Ft	\$ 102.50		
V 8	Well Abandonment	Consultant	WAB10 WAB20	Bentonite Pellets (50lb bag - 1/4" pellet)	Bag	\$ 10.82		
V34	Consultant Incremental Mob/Demob	Consultant	IMD05	Incremental Mob/Demob (WAB 30 - abandon MW2 during excavation)	Site	\$ 287.18		
L24	Limited Soil Excavation	Consultant	LSE05	Consultant Oversight for Limited Soil Excavation	Ton	\$ 4.94	500 \$	\$ 2,467.50
24	Limited Soil Excavation	Consultant	LSE10	Primary Mob/Demob	Site	\$ 831.92	1 5	\$ 831.92
~24	Limited Soil Excavation	Commodity	LSE13	Laboratory (see task 24 total on Lab Schedule)	Lab Schedule	Lab Schedule	8 9	\$ 274.40
V24	Limited Soil Excavation	Commodity	LSE15	Limited Soil Excavation	Ton	\$ 60.00	500 \$	\$ 30,000.00
24	Limited Soil Excavation	Commodity	LSE16	Landfill Environmental Fee (provide documentation)	ACTUAL COST	ACTUAL COST		
(31)	Consultant Overnight Per Diem		COPD05	Overnight (2 - source excavation)(1 - setup temp support)	Night	\$ 113.72	3 \$	\$ 341.15
36	Change Order Request		COR05	Change Order Request (cost cap exceedance requests)	Change Order	\$ 381.78	1 5	\$ 381.78
Variance								
Temporary	Building Support: Install							
	Subcontractor (Manor Construction) p	rovide all mate	erials, labor fo	r temporary support	Task	\$ 5,000.00	1 5	
	Concrete for support footing			mich	7 Task	\$ 1,000.00	1 5	\$ 1,000.00
	Meridian labor overseeing/assisting ter	mporary buildir	ig support ins	tallation/return trip to remove	hour	\$ 104.44	24 5	
				tallation/return trip to remove			subtotal:	\$ 8,506.56
Variance: C	ollect 15 air samples (Sur	nma Cani	isters)(T	O-15 PVOC) from 15 vapor probes (ma	y take two c	days)		
	Geoprobe crew/equipment - standby ti	me during cani	ster sampling	(estimate 1 hr per probe)	hour	\$150.00	15 \$	\$ 2,250.00
	Labor (1 hour per can)				hour	\$104.44	15 \$	\$ 1,566.60
	LEL/Oxygen Meter				day	\$50.00	2 \$	
	PID				day	\$75.00	2 \$	\$ 150.00
	Lab Analysis TO-15 (includes can rent	al, shipping)			canister	\$220.00	15 S	\$ 3,300.00

Variance: Place probe in cellar floor.	Sample two events (winter, summe	r)(total of 2 air samples	(Summa Canisters)(TO-15 PVOC).

<u>Meridian</u>		inside Cellan. Install by hard				
1st Event (combine with probes above)	*	il bio o comme . biser				
Install probe by hand during Geoprobe work.			hour	\$104.44	1 \$	104.44
Collect air sample using Summa.			hour	\$104.44	1 \$	104.44
2nd Event (separate trip)						
Travel to/from			hour	\$104.44	4 \$	417.76
Coordinate with landowner			hour	\$104.44	1 \$	104.44
Collect air sample using Summa.			hour	\$104.44	1 \$	104.44
LEL/Oxygen Meter			day	\$50.00	1 \$	50.00
PID			day	\$75.00	1 \$	75.00
Lab Analysis - 2 canisters (TO-15)		Total of 2 samples (summer, winter)	canister	\$220.00	2 \$	440.00

subtotal \$ 1,400.52

subtotal

\$7,366.60

Usual and Customary Standardized Invoice #19 January 2016 - June 2016





1			TOTAL LAB CHARGES	\$274.40		TASK 33 0	\$	1.5	TASK	24	8	\$274.40	
	MATRIX	REF CODE	REIMBURSABLE ANALYTE	UNITS		MAX COST SAMPLES	161	OTAL	1				
	ALC: NO.		The state of the s					OTAL					
	AIR	A1	Benzene	SAMPLE	\$	42.80	\$	-					
	AIR	A2	BETX	SAMPLE	\$	47.10	\$	-					
	AIR	A3	GRO	SAMPLE	\$	43.90	\$	-					
	AIR	A4	VOC's	SAMPLE	\$	68.50	\$	-					
	WATER	W1	GRO/PVOC	SAMPLE	\$	27.80	\$	-					
	WATER	W2 W3	PVOC	SAMPLE	\$ \$	25.70	\$ \$	- 、					
	WATER WATER	W4	PVOC + 1,2 DCA PVOC + Naphthalene	SAMPLE SAMPLE	\$	41.70 28.90	\$	-					
	WATER	W5	VOC	SAMPLE	\$	68.50	\$						
	WATER	W6	PAH	SAMPLE	\$	69.50	\$	-					
	WATER	W7	Lead	SAMPLE	Š	11.80	ŝ						
	WATER	W8	Cadmium	SAMPLE	\$	12.90	s	_					
	WATER	W9	Hardness	SAMPLE	\$	11.80	ŝ	_					
	WATER	W10	BOD, Total	SAMPLE	\$	22.50	\$	-					
	WATER	W11	Nitrate	SAMPLE	\$	10.70	\$	-					
	WATER	W12	Total Kjeldahl	SAMPLE	\$	19.30	\$	-					
	WATER	W13	Ammonia	SAMPLE	\$	16.10	\$	-					
	WATER	W14	Sulfate	SAMPLE	\$	9.70	\$	-					
	WATER	W15	Iron	SAMPLE	\$	9.70	\$	-					
	WATER	W16	Manganese	SAMPLE	\$	9.70	\$	-					
	WATER	W17	Alkalinity	SAMPLE	\$	9.70	\$	-					
	WATER	W18	methane	SAMPLE	\$	43.90	\$	-					
	WATER	W19	Phosphorous	SAMPLE	\$	17.20	\$	-					
	WATER	W20	VOC Method 524.2	SAMPLE	\$	167.90	\$	-					
	WATER	W21	EDB Method 504	SAMPLE	\$	90.90	\$	-	MAX CO		SAMPLES	TOTAL	
	SOILS	S1	GRO	SAMPLE	\$	23.60	\$	-		3.60		\$ -	
	SOILS	S2	DRO	SAMPLE	\$	28.90	\$	-		3.90		\$ -	
	SOILS	S3	GRO/PVOC	SAMPLE	\$	26.80	\$	-		6.80		\$ -	
	SOILS	S4	PVOC	SAMPLE	\$	24.60	\$	-		1.60	10	\$ -	
	SOILS	S5	PVOC + 1,2 DCA + Naphthalene	SAMPLE	\$	47.10	\$			7.10	10	\$ -	
	SOILS	S6	PVOC + Naphthalene	SAMPLE	\$	34.30 68.50	\$	-		4.30 3.50	9	\$ 274.40	
	SOILS SOILS	S7 S8	VOC SPLP Extraction VOC only	SAMPLE SAMPLE	\$	48.20	\$	- 5		3.20		Φ -	
	SOILS	S9	PAH	SAMPLE	\$	69.50	\$			9.50		\$ -	
	SOILS	S10	Lead	SAMPLE	\$	11.80	\$	_		1.80		\$ -	
	SOILS	S11	Cadmium	SAMPLE	\$	13.90	\$	-	1 2 2 2 2 1		K 24 TOTAL	\$ 274.40	
	SOILS	S12	Free Liquid	SAMPLE	\$	10.70	Š	_		.,,,		Y	
	SOILS	S13	Flash Point	SAMPLE	\$	24.60	\$	-					
	SOILS	S14	Grain Size - dry	SAMPLE	\$	40.70	\$	-					
	SOILS	S15	Grain Size - wet	SAMPLE	\$	54.60	\$	-					
	SOILS	S16	Bulk Density	SAMPLE	\$	12.90	\$	-					
	SOILS	S17	Permeability	SAMPLE	\$	39.60	\$	-					
	SOILS	S18	Nitrogen as Total Kjeldahl	SAMPLE	\$	19.30	\$	-					
	SOILS	S19	Nitrogen as Ammonia	SAMPLE	\$	16.10	\$	-					
	SOILS	S20	% Organic Matter	SAMPLE	\$	27.80	\$	-					
	SOILS	S21	TOC as NPOC	SAMPLE	\$	54.60	\$	-					
	SOILS	S22	Soil Moisture Content	SAMPLE	\$	6.50	\$	-					
	SOILS	S23	Air Filled Porosity	SAMPLE	\$	24.60	\$	-					
	SOILS	S24	% Total Solids	SAMPLE	\$	6.50	\$	-					
	SOILS	S25	Field Capacity	SAMPLE	\$	26.80	\$	-					
	SOILS	S26	TCLP Lead	SAMPLE	\$	79.20	\$	-					
	SOILS	S27	Cation Exchange (Ca, MG, & K)	SAMPLE	\$	25.70	\$	-					
	SOILS	S28	TCLP Cadmium	SAMPLE	\$	79.20	\$	-					
	SOILS	S29	TCLP Benzene	SAMPLE	\$	79.20	\$	-					
			Viscosity + Density			10							
	LNAPL	LFPS01	Interfacial tension I (LNAPL/water [dyne/cm])	SAMPLE	\$	534.60	\$	-					
		211001	Interfacial tension II (LNAPL/air [dyne/cm])	J ==	•	******							
			Interfacial tension III (water/air) [dyne/cm])										
					18	TASK 33 TOTAL	L \$	W. F.					

6 of CNapl before exaution. Tow down to disolved LNapl

Building support - War 24 hrs. - hup w/ support 25 hrs. Hrip up 8 hr day. Install temp 4 hrs next day (finish) 2. I hrs. Back Permanente - Install (2) tehr. 2.5 hr. trip 8 hrs. to Install & remove top. 2.5 hr. trip. forkell o ounite (4)
Sat -> fost (knp support)
Execute 1-2 ournites

3 Hotal Dounites (Pillary Evacotion)

(1) U.I. install

lanto
go up on wand
before (sat) set up
temp brace. Ken winte
Coupenters before. Stay the
nite. Check on sun +
pull out steel Post monexcaudte (organica), let
Concrete Set 1-2 weeks come
back sat, take out temp
Posts, reset—done

that posteriems

Labs-soil samples taken

Building support-variance
Why zy hrs. 2 for then

BID COMPARE

Excavate, Replace, Transport Petroleum Contaminated Soil

Westboro, Wisconsin

Meridian No. 05F754



			D	KS	Melvi	in	Olynic	ck
Task	Units	#Units*	Cost/Unit	Cost	Cost/Unit	Cost	Cost/Unit	Cost
Mobilization/demobilizaton	Job	1	\$2,500.00	\$2,500.00	\$750.00	\$750.00	\$1,800.00	\$1,800.00
	(1							
Excavate, Load, Replace, Compact Contaminated Soil	ton*	500	\$25.00	\$12,500.00	\$16.95	\$8,475.00	\$12.00	\$6,000.00
excavation to be topped with 6 inch gravel finish, compacted, graded)								
			1					
nstall concrete tube (16 inch dia x excavation depth (assume 12 ft) -								
tube furnished by Meridian)(placed on concrete disk (furnished by	word	1	\$1,000.00	\$1,000.00	\$580.00	£500 00	\$050.00	\$050.00
Meridian). Backfill around tube. Provide and fill tube with concrete	yard	1	\$1,000.00	\$1,000.00	\$500.00	\$580.00	\$950.00	\$950.00
estimate 1 yard)					7			
ransport Contaminated Soil to Landfill (2 options: Lincoln County, We	yerhauser)						
provide cost for both options: Meridian will determine which landfill w	ill be used)						
N		500	200.00	040.000.00	212.25	00 505 00	211.50	
Waste Management Landfill near Weyerhauser	ton*	500	\$20.00	\$10,000.00			\$14.50	
Lincoln County Landfill near Merrill	ton*	500	\$15.00	\$7,500.00	\$16.05	\$8,025.00	\$13.35	\$6,675.00
	1							
Diamonal Cont								
Disposal Cost Lincoln County Landfill	ton	500	\$23	\$11,500	\$23	\$11,500	\$23	\$11,500
Naste Mgmt. (Weyerhauser)	ton	500	\$27	\$13,500		\$13,500	\$27	\$13,500
vaste Wgmt. (vveyemauser)	LOIT	1 300	Ψ21]	ψ15,500	ΨΖΙ	ψ15,500]	Ψ21	\$15,500]
Total .								
Concrete				\$1,000.00	:	\$580.00		\$950.00
Lincoln County	ton	500		\$34,000.00		\$28,750.00		\$25,975.00
Weyerhauser	ton	500		\$38,500.00	-lotal	\$32,250.00	40,00	\$28,550.00
Per Ton								
incoln County	ton	500		\$68.00		\$57.50		\$51.95
Weyerhauser	ton	500		\$77.00		\$64.50		\$57.10

Using Olymoil we spread purken 3/16/17
Task# 24



Meridian Environmental Consulting, LLC

February 22, 2017

REQUEST FOR BID

Bid Scope:

Remove/Replace/Transport Petroleum Contaminated Soil

Site Location:

W8883 Bus. Hwy 13

Westboro, WI

DNR BRRTS No. 03-61-000014 PECFA No. 54490-0127-83 Meridian No. 05F754

Bid Due:

February 28, 2017

Meridian Environmental Consulting, LLC (Meridian) invites Bids to conduct the following Scope of Work:

Remove, replace, transport petroleum contaminated soil from the site to landfill (Meridian will pay landfill). This work will require temporary support of building corner.

The attached Bid Specifications describe the job. An onsite meeting is available upon request.

Please complete the enclosed Bid Form and return by the Bid Due date.

Sincerely,

MERIDIAN ENVIRONMENTAL CONSULTING, LLC

Kenneth Shimko, PG Project Manager

BID SPECIFICATIONS

Site Description:

- The site is a former gas station located in Westboro, Wisconsin. Petroleum was released into the soil and ground water.
- The soils at the site are typically silty sand with varying layers of sand and clay.
- Ground water is found about 15 20 feet below grade.
- NO WATER WILL BE PUMPED FROM EXCAVATION

SCOPE OF WORK

Summary of Work:

The petroleum impacted soil will be excavated, loaded onto trucks, and transported to the landfill. The excavation will be backfilled with clean fill, compacted, and topped with a crushed gravel finish to match existing grade.

The estimated tonnage of soil to be excavated and disposed is 500 tons. <u>The actual excavation dimensions and tonnage will be more or less as determined during the work by Meridian.</u>

There is a house on the property. The excavation will occur next to the house (see enclosed map and photo).

A house support (see enclosed photograph) will have to be temporarily removed, temporary support installed, and then a permanent support installed. This task will be completed by Meridian before the work begins. However, work will be conducted around this temporary support requiring special care to not disturb the temporary support.

Work Tasks:

- Construct temporary support structure and remove existing support post
 - A temporary support structure will be installed by Meridian prior to beginning the work. The existing support structure will be removed (by Meridian). Contractor will then complete excavation (CAREFULLY). Contractor work MUST NOT AFFECT TEMPORARY SUPPORT STRUCTURE.
- The existing concrete slab (approx.. 10 x 10) will be removed and disposed offsite. Sawcut as needed (minimal).
- The contaminated soil will be excavated from depths up to 20 feet (although 12 feet is more likely). Meridian will be onsite and will direct the excavation. **No one will be allowed inside of the excavation**.

• Construct concrete support footing (pillar) for replacement support post

When the excavation is completed, a concrete footing (pillar) will be constructed in the excavation prior to and during backfilling. A concrete disk (18 in. dia. by 2 in thick - supplied by Meridian) will be placed onto native soil in the bottom of the excavation. A concrete tube form (16 in dia – provided by Meridian) will then be installed vertically in the excavation resting on this disk. The excavation will be backfilled around the tube to the surface (per compaction requirements below).

When the excavation is backfilled and finished to grade, concrete will be poured into the tube form.

This will form a concrete pillar to be used as a base for the replacement support structure (provided by Meridian).

• Backfill, compaction, surface finish

The excavation will be backfilled with material similar to the existing soils. The excavation will be compacted (95% compaction) in 1-foot lifts.

The excavation will be topped with 6 inches of crushed gravel (base) to match existing grade.

Safety and Security

Barriers will be installed around the work area to keep onlookers at a safe distance.

A Site Health and Safety Plan will be prepared by Meridian and will be reviewed prior to the work. All onsite personnel will adhere to this Safety Plan.

In addition, Contractor is responsible for the Health and Safety of their personnel, equipment, and activities.

No one will be allowed in the excavation at any time.

Utilities

Meridian will clear public and private utilities.

Permits

Meridian will obtain DOT Permit to work alongside of County Highway D. Meridian will coordinate with Village of Westboro.

Bid Specifications W8883 Bus. Hwy. 13 Page 4

Landfill

Meridian will arrange for disposal at landfill and will pay landfill disposal fee.

Please provide a Bid to transport the contaminated soil to two landfills: Waste Management near Weyerhauser and Lincoln County Landfill near Merrill. Meridian will select the landfill for disposal. (Lowest cost alternative will be selected).

Schedule

The work is tentatively scheduled for summer 2017 (actual date to be determined).

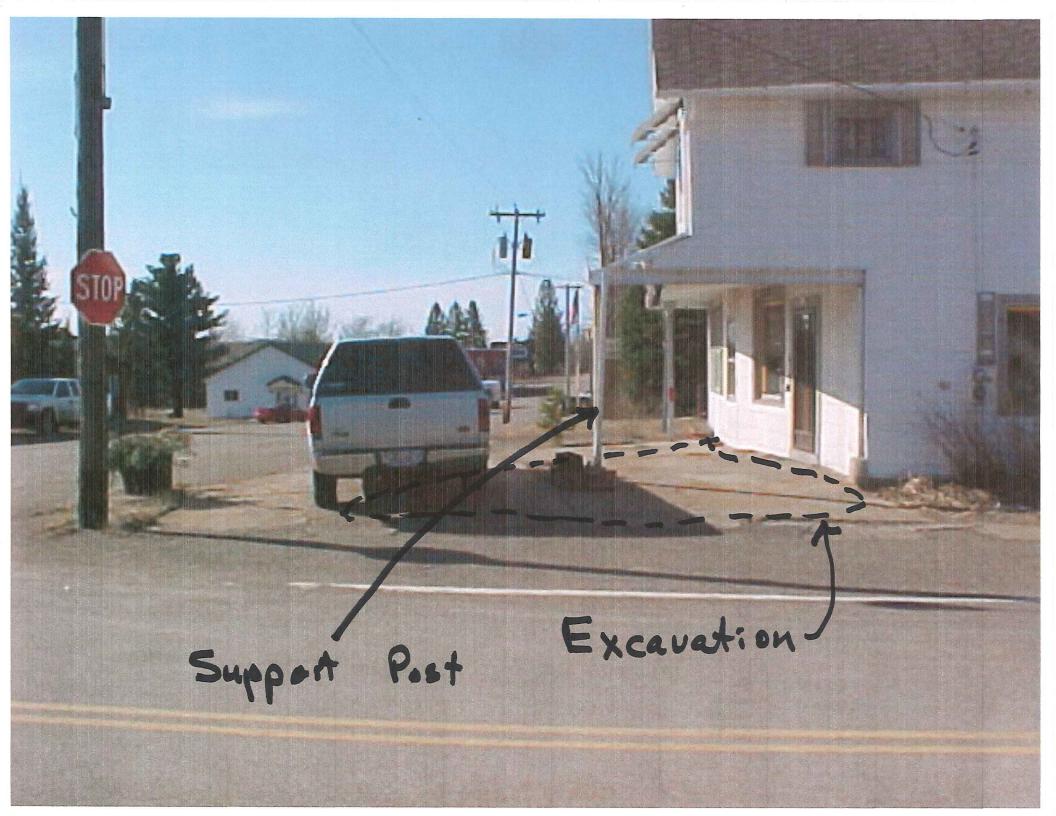
Payment

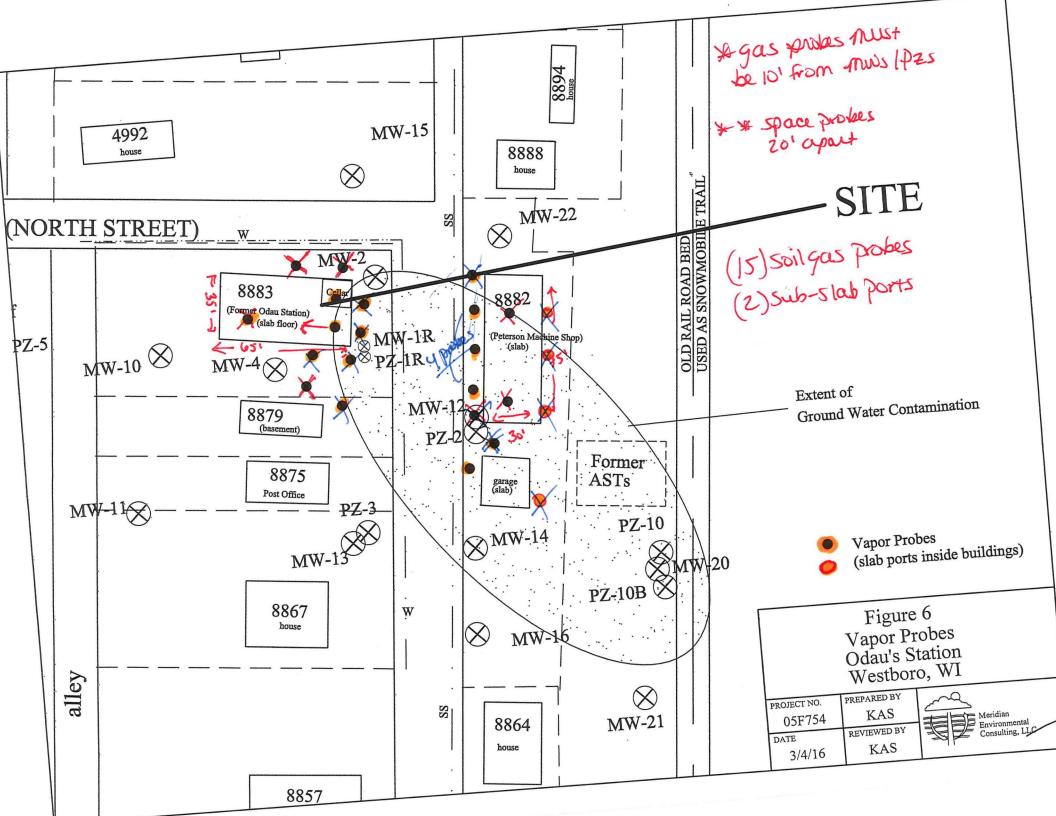
The Contractor will invoice Meridian using the same format and pricing as provided in the Bid Form.

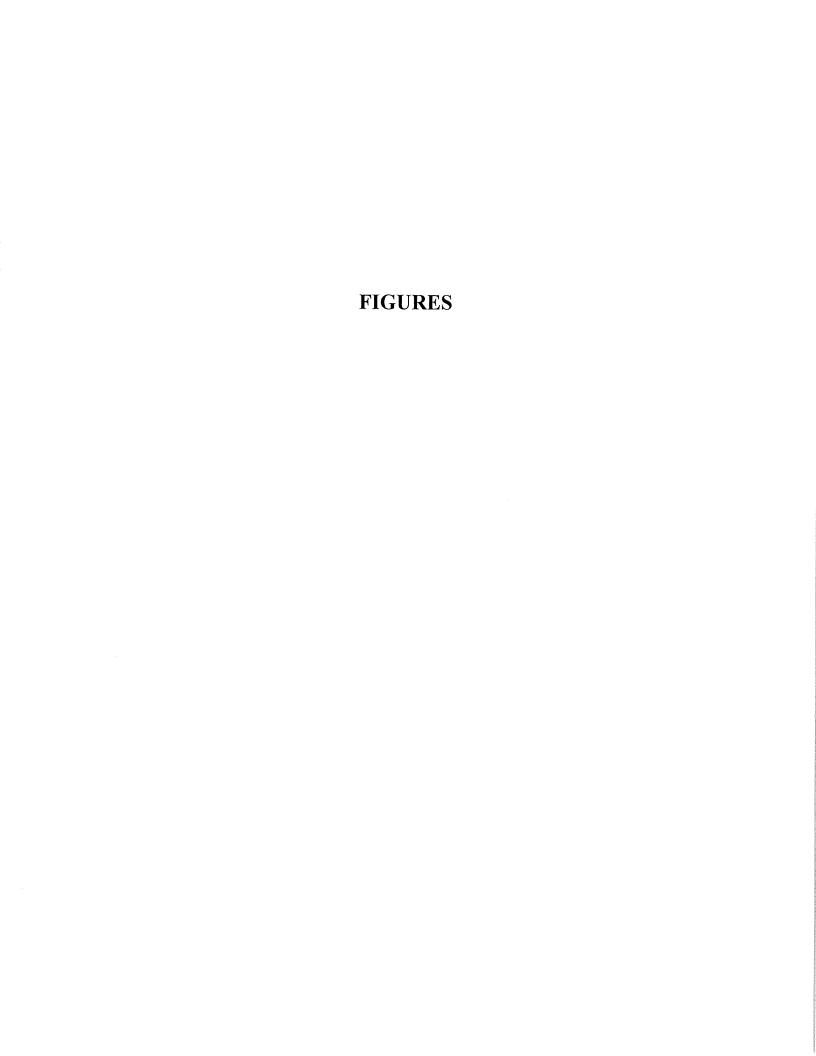
The Contractor will sign the Promissory Note required for PECFA reimbursement. The State's current payment turnaround is 4 - 6 months.

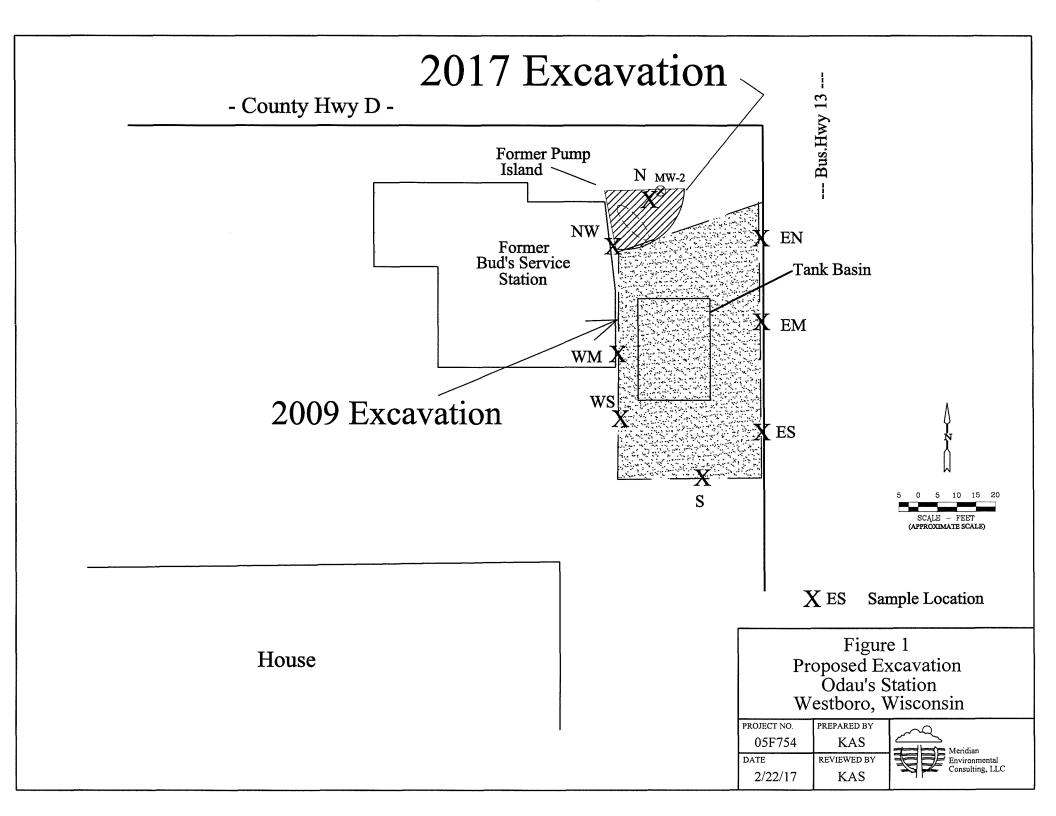
Insurance/Contract

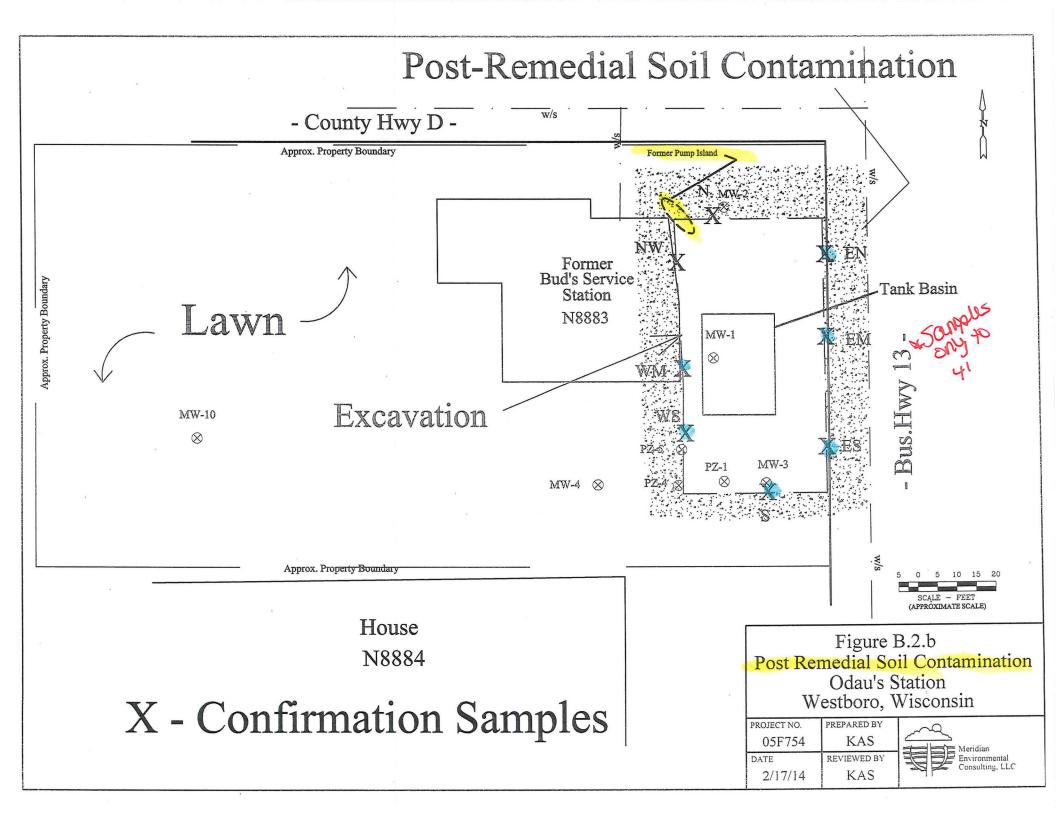
Contractor will sign Meridian's Subcontract and provide Certificate of Insurance documenting compliance with insurance requirements prior to the work beginning.

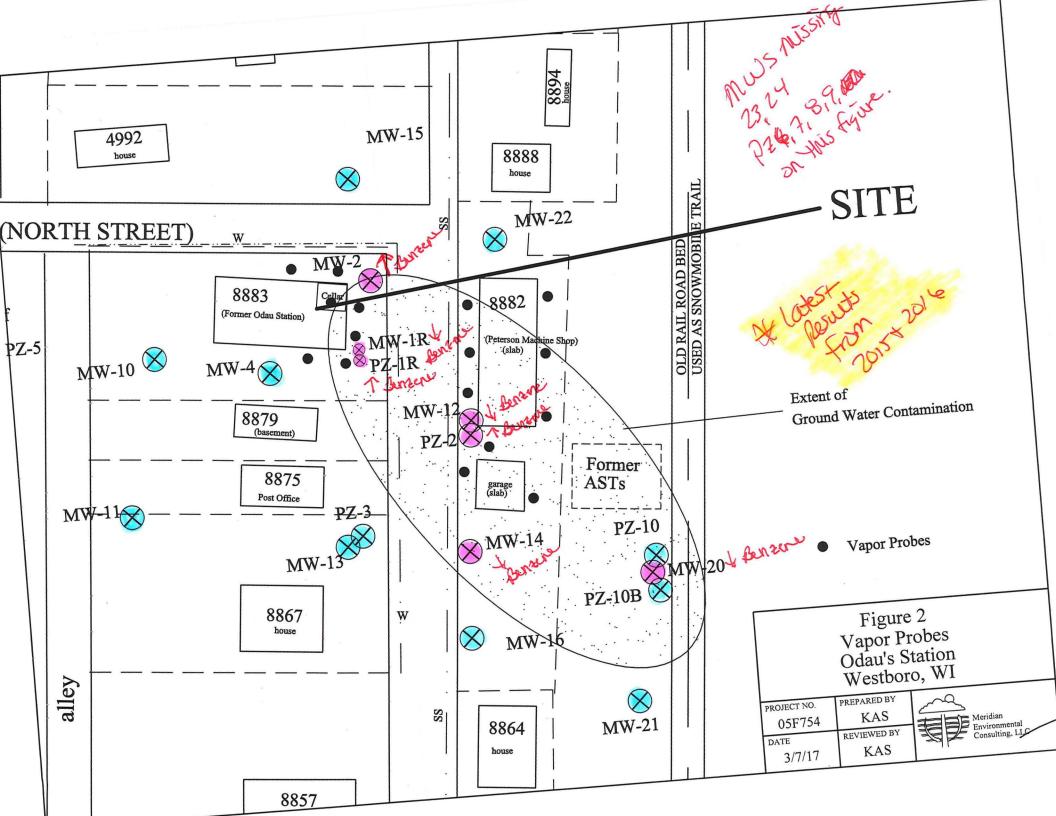


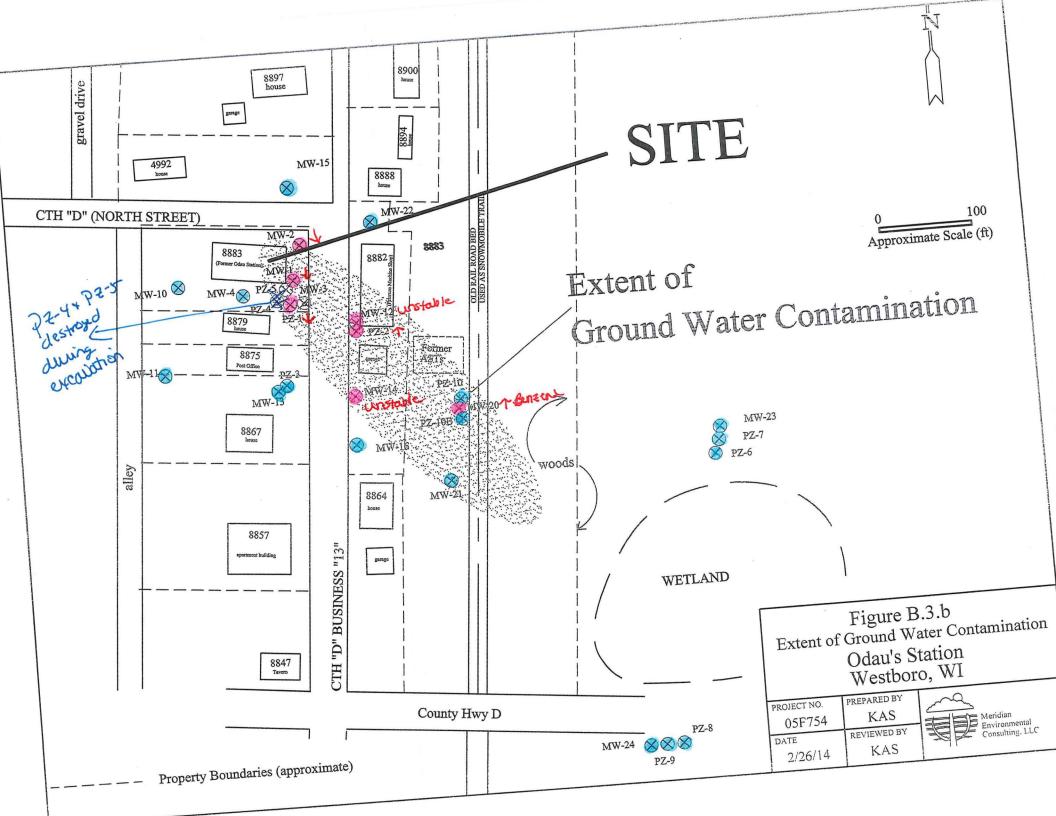








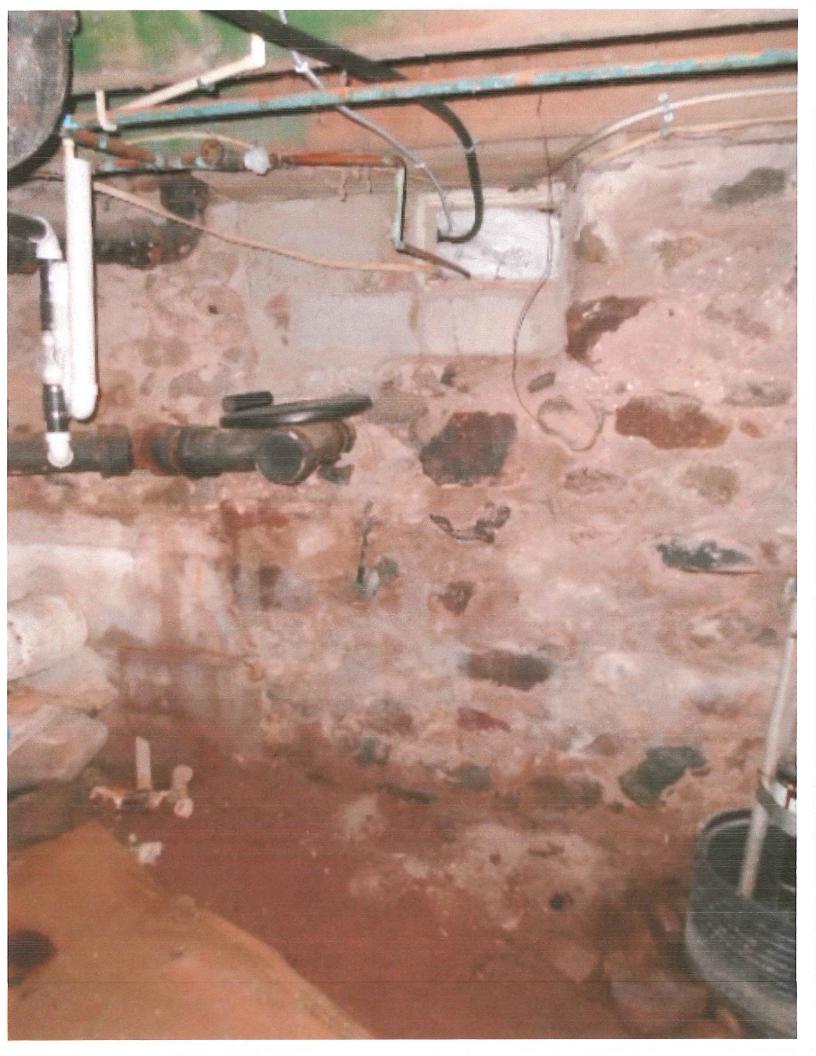




APPENDIX A

Photographs











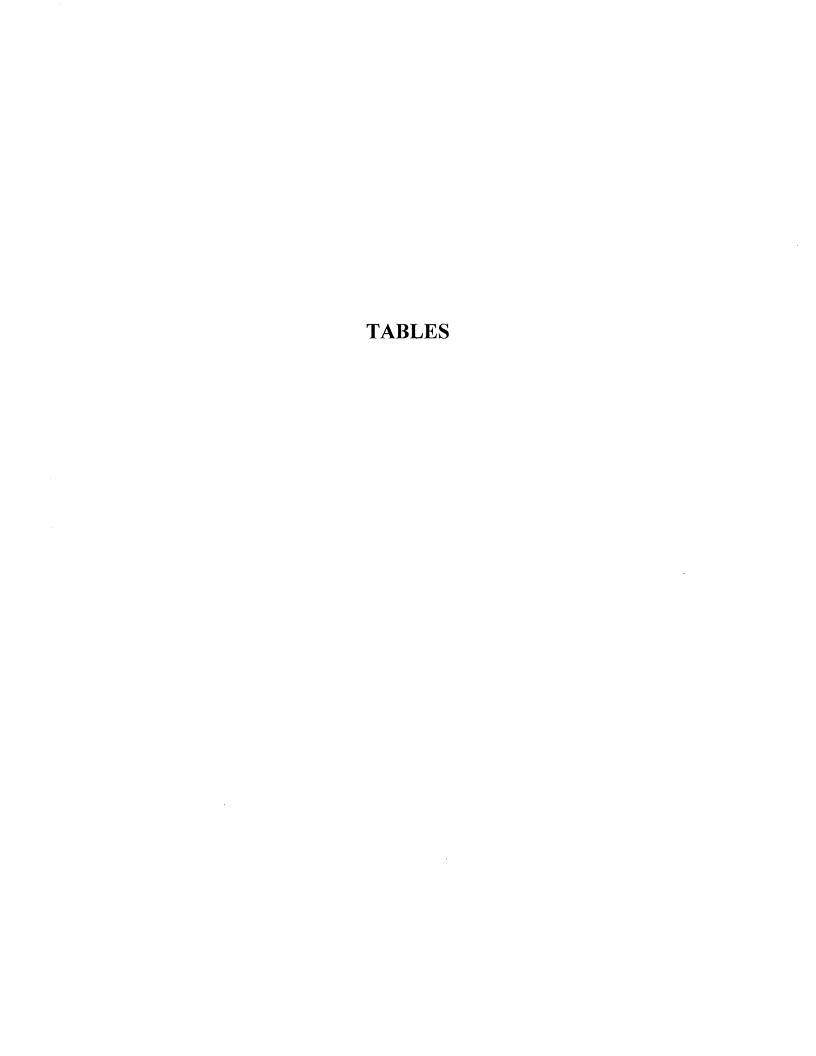




Table 1: Ground Water Analytical Data Odau Station (aka Bud's Service)

Westboro, Wisconsin Meridian No. 05F754

Well	Date	1,2,4-TMB	1,3,5-TMB	Total TMB	Benzene	Ethylbenzene	MTBE	Naphthalene	m&p-xvlene	o-xylene	Total Xvienes	Toluene	Chloromethane	1,2 DCA	EDB	Dis. Pb
NR140 ES NR140 PAL				480	6 0.5	700	60	100	A Junio		2000	800	30	5 0.5	0.05	15
MW-1	12/12/1996 12/4/1997 12/18/2008	Screened inte	erval filled wit	1480 2620	40000 27000 - no sampl	2200 2300 e could be coiled	<200 <50	400 200			10000	30000 24000	NA NA	2200 <50	<2000 NA	62 76
MW-1R	10/26/2009 1/19/2010 4/27/2010 1/27/2010 1/27/2011 1/21/2011 1/21/2011 3/26/2012 5/26/2013 8/29/2013 11/11/2014 3/30/2015 6/30/2015 9/28/2015 6/30/2016	installed 9/29 2130 2130 2130 2590 1360 1430 745 1350 731 498 62.7 549 191 89.3 127 76	09 527 599 676 365 1710 356 480 245 198 36.8 169 51.6 22.9 29.6 14.4	2657 2729 3266 1725 3140 1101 1830 976 696 119 5 718 242 6 112 2 156 6 90 4	11600 26400 23700 23700 2860 2410 1450 5210 872 600 170 1160 251 192 273 176	3310 3320 3080 1610 1710 1040 1820 675 676 222 749 340 206 341 188	<75.0 <75.189 <75.250 91.8 135.23 21.8 5.7 7.8 10.7 2.5 3.8 2.8	544 1150 965 558 2720 276 407 205 145 45 9 154 85 3 47.4 56 41.8	10500 9340 9410 9410 5130 3230 1620 4330	4760 7 4210 4470 1520 438 179 889	15260 13350 13880 6650 3068 1799 5219 1850 883 120 1190 374 475 185	27800 31300 29000 8990 4170 1080 7060 1530 857 164 1890 225 215 694 220	NA NA NA NA \$200 NA NA	NA NA NA NA <150 NA NA	NA NA NA NA C150 NA NA	NA NA NA NA NA NA
	12/12/1996 12/4/1997 11/10/1998 12/18/2008 4/25/2011 3/26/2012 5/16/2013 11/11/2014 3/30/2015 6/30/2015 9/28/2016 6/30/2016	71.4 15.8 66.8 58.2 96.5 17 43.5 34 21.6 7.7 16.7	40.7 22.5 42 10.3 26.5 3.9 7.9 15.3 6 2.7 9.7	1500 920 161 1121 383 1088 685 123 209 514 493 27.6 10.4 26.4	19 5.2 17 <1.55 21.7 115 531 310 117 46.3 133 69.2 32.3 83.8	1100 250 51 6.36 3.45 21.1 67.8 48.4 19.9 12.3 29.7 14.5 8.7	<5 <1.2 44 <1.5 <.5 32.8 18.2 15.2 5.4 6.2 19.4 5.3 10.2	200 30 NA 37 2 4 62 30 2 89 4 61.5 82 8 36 6 86 2 63 8 44 4 73 8	23 9 8 4 31 8	<1.8 0.25 <3.65	4900 1200 120 23 9 8,66 31 8 109 85.7 36 4 23 64 6 26 4 11.2	2600 75 21 <1.5 < 4 6.15 55.3 47.9 31.9 6.2 34.8 12.6 6.2 21.1	NA NA NA NA A < 4 NA	<5 <12 NA NA 0.76 NA	<50 NA NA NA NA <,3 NA	6.6 2.7 NA NA NA NA
E-WM	12/12/1996 12/4/1997 12/18/2008 well destroyed	Screened inte	rval filled with	5300 4160 of free product 2009	23000 21000 - no sampl	2800 3100 e could be collec	<200 <50 ted	1400 450			14000 15000	28000 25000	NA NA	1100 1100	<2000 NA	32 18
MW-4	12/12/1996 12/4/1997 11/10/1998 12/18/2008 4/25/2011 9/28/2015	1.19 0.28 <.42	1.76 0.28 <.42	1740 750 610 2.95 0.56 <.42	92 42 5.4 <31 <2 <.4	2000 120 78 0.514 <.2 < 39	<100 <2.5 61 <3 <.5 <.48	350 32 NA < 8 < 1 < .42	2 37	1 < 2	10000 1800 1100 3.37 <.4 <1.2	18000 940 710 0 952 < 4 < 39	NA NA NA NA <.4	<100 <2.5 NA NA <.3	<1000 NA NA NA NA <.3	3.8 1.7 NA NA NA
MW-10	12/4/1997 11/9/1998 12/18/2008 4/25/2011 9/28/2015	<.4 < 2 < 42	< 31 < 2 <.42	< 35 0 28 < 4 < 2 < 42	<.1 0.17 <.31 <.2 <.4	<.25 <.22 <.5 <.2 <.39	<.25 <.16 <3 <5 <.48	< 1 NA < 8 <1 <.42	<.62 < 4	< 36 < 2	<.25 0.59 <.62 <.4 <1.2	<.1 0.35 <.3 < 4 <.39	NA NA NA < 4	< 25 NA NA < .3	<.25 NA NA <.3	< 89 NA NA NA
MW-11	12/4/1997 11/9/1998 12/18/2008 4/25/2011 9/28/2015	could not loc	<.2	< 35 0 38	< 1 0.49 < 2 < 4	< 25 < 22 < 2	<.25 <.16	<.1 NA	< 4	<.2	<.25 1	<.1 1.4 <.4	NA NA <4	<.25 NA <.3	<.25 NA <.3	<.89 NA
MW-12	12/4/1997 9/2/1998 11/10/1998 12/18/2008 10/26/2009 1/19/2010	1430 2150 water level too	376 609	1900 760 1010 1806 2759	8700 6700 7400 13900 14900	2000 890 1100 1760 2220	<.48 <5 <16 300 <6 404	900 NA NA 351 551	6650 9130	3150 4090	9200 4700 6400 9800 13220	14000 11000 14000 21900 22700	NA NA NA NA NA	<5 NA NA NA NA	<5 NA NA NA NA	20 NA NA NA NA
DUN APPL	1/19/2010 4/27/2010 4/27/2010 4/25/2011 12/12/2011 3/26/2012 5/16/2013 11/11/2014 3/30/2015 6/30/2015 6/30/2016 6/30/2016	1320 3530 1510 1170 1600 1420 1210 1270 1710 1390 1310 1240 1300	345 1060 382 1210 <200 407 348 395 488 419 375 376 387	1665 4590 1892 2380 1600 1827 1556 1665 2196 1809 1685 1616	129000 9790 7240 4450 8510 5240 6130 3510 4920 4760 4750 4540 4280	1510 1870 931 558 936 932 793 514 835 779 905 1030 852	<6 245 <250 <500 <500 <46.4 <46.4 <19.4 <48.5 <48.5 <48.5 <48.5 <24.2	453 966 528 <1000 <1000 407 323 318 460 341 422 378 380	7390 10600 7090 4850 6650	3270 5070 3350 2510 3220	10650 15670 10440 7360 9870 9860 9100 8000 10600 9510 8760 9170	19900 16300 14200 9420 19700 11400 10000 7190 10200 9710 10400 10600 8960	NA NA <200 <400 <400	NA NA <150 <300 <300	NA NA 193 <400 <400	NA NA NA NA NA

Jungoly 22,23,229

Jungoly 21,0,11,3,15,223,220,229

Mingly 21,0,11,3,15,223,220,229

Mingly 21,0,11,3,15,223,220,229

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Well NR140 ES	Date	1,2,4-TMB	1,3,5-TMB	Total TMB	Benzene 6	Ethylbenzene 703	MTBE	Naphthalene 100	m&p-xylene	o-xylene	Total Xylenes	Toluene 800	Chloromethane 30	1,2 DCA	EDB 9.05	Dis. P
NR140 PAL				96	0.5	140	12	10		annahi sajaka	400	160	3	0.5	0 005	1.5
W-13																
-	12/4/1997			< 35 0 26	0.15	< 25 < 22	<.25	< 1 NA			< 25 0 59	0.2	NA NA	< 25 NA	<.25 NA	<.89
2/	12/18/2008	<.4	< 31	< 4	<.31	<.5	<.3	< 8	<.62	<.36	< 62	< 3	NA	NA	NA	NA
	4/25/2011 9/28/2015	<.42	<.42	<.2	<.2	<.39	<.48	<.42	< 4	<.2	<12	<.39	<.4	<.3	<.3	NA
	5.E5.E4.6						-,40	3.14				1.00				
V-14	12/4/1997			3000	1100	2600	<25	250			12000	5900	NA	<25	<25	89
	6/30/1999 12/18/2008	could not loca	to	2600	1900	2700	<11	NA			12100	5400	NA	NA	NA	24
Daniel Market	10/26/2009	1880	954	2834	320	1020	211	415	5550	2160	7710	1360	NA	NA	NA	NA
- 1	1/19/2010 4/27/2010	1700 1360	631 856	2331 2216	265 144	1410 605	139	465 303	6480 2700	2440 1430	8920 4130	1450 788	NA NA	NA NA	NA NA	NA NA
- 1	7/27/2010	657	305	962	157	182	72.4	183	1500	559	2059	425	NA	NA	NA	NA
,	4/25/2011 12/12/2011	667 883	235 378	902 1261	161	982 1280	<25 75.2	212 334	2820 3480	393 518	3213 3998	366 357	84.9 NA	<15 NA	<15 NA	NA NA
\forall	3/26/2012	1240	500	1740	420	1600	107	452	4570	862	5432	540	NA	NA	NA	NA
1	5/16/2013 8/29/2013	615 254	326 157	941	84.5 179	273 297	19	143 55.1			1710 2120	182 374				
	11/11/2014	67.4	40.7	108.1	193	232	7.4	64.3			350	92.4				
	3/30/2015 6/30/2015	547 245	213 107	760 352	266 251	1080 338	11.3 16.8	203 127			3960 748	550 130				-
	9/28/2015 3/22/2016	275 738	117 283	392 1021	224 337	433 1050	63	141			1030	108 172				
	6/30/2016	684	270	954	302	790	12.1	253			2880 2150	202				
V-15				-									MANAGEMENT OF THE PARTY OF THE			-
	12/4/1997			<.35	<.1	<.25	<.25	<.1			< 25	<1	NA NA	<.25	<.25	< 89
	9/2/1998 11/9/1998			< 51 < 51	<.13 0 15	< 22	< 16	NA NA			0.34	<2	NA NA	NA NA	NA NA	NA NA
1	3/16/1999 6/30/1999			< 45	<.31	< 26 < 24	< 66	<.49 NA			<1.34	<.48	NA NA	<.55 NA	< 39 NA	<1.2
9	12/18/2008	<.4	<.31	<.4	< 31	<.5	< 22	8.>	< 62	<.36	<62	<.3	NA NA	NA NA	NA	NA.
	4/25/2011 9/28/2015	< 42	<.42	<.2	< 2	< 2	<.48	<1.	<.4	<2	<12	< 4	< 4	<.3	<3	NA
	3/20/2010	- 42		-42		- 4 5 3	1,40	1,42			112	1.33				
16	12/4/1997			< 35	< 1	<.25	<.25	<.1			< 25	<.1	NA	< 25	<.25	<.89
	11/10/1998	< 4	431	<.51	0.17	0.36	< 16	NA NA	- 62	- 20	0 29	< 2	NA NA	NA NA	NA	NA
()	10/26/2009	<.4	<.44	<.4	<.31	< 5	< 3	< 8 < 8	< 62 < 62	< 36	< 62 < 77	< 37	NA NA	NA NA	NA NA	NA NA
	1/19/2010 4/27/2010	<.4	< 44	<.44	<.31	<.5 <.5	< 3	<.8	<.62 < 62	<.77	<.77 <.77	<.37	NA NA	NA NA	NA NA	NA NA
	7/27/2010	<.4	<.44	< 44	<,31	< 5	< 3	< 8	< 62	< 77	<.77	< 37	NA	NA	NA	NA
	4/25/2011 9/28/2015	<.2	<.42	< 2 < 42	<.2	< 39	<.5	<1 < 42	<.4	<.2	<1.2	<.4	< 4	< 3	<.3	NA
.0																
	12/4/1997			1770	1900	1200	<12	99			5700	6100	NA	<12	<12	22
	9/2/1998			4.6	300 450	23 9.1	<.16	NA NA			14 4.7	3.5 2.8	NA NA	NA NA	NA NA	NA NA
	3/16/1999			1.1	110	3.1	<1.3	< 98			2.7	<.96	NA	<1.1	<.78	<1.2
	6/30/1999	could not loc	ate	49	290	19	<.55	NA NA			13.8	4.5	NA	NA	NA	3.7
	10/26/2009	< 4	<.44	< 44	12.7	1.3	23.5	1.85	1.49	<.77	1.49	3.41	NA	NA	NA	NA
	1/19/2010 4/27/2010	<.4	<.44	<.44	73.8	3 84 0 72	35.2 43.1	5.92 3.07	<.62 <.62	<.77 <.77	<.77	6.97 0.83	NA NA	NA NA	NA NA	NA NA
	7/27/2010	<.4	<.44	<.44	6	<.5	31.3	< 8	<.62	<.77	<.77	5 42	NA .	NA	NA	NA
-	4/25/2011 12/12/2011	1.36	0.912	<2 2.272	6.49	<2 16.5	<5 31.7	<10 6.31	2.25	<.77	2 25	3.39	<4 NA	<3 NA	<3 NA	NA NA
,	3/26/2012	<2	<22	<2.2	372	27.1	23.2	16.5	4.64	<3.85	4.64	3.21	NA	NA	NA	NA
4	5/16/2013 8/29/2013	<.33 0.53	<.36	< 36 0.53	39.8 213	19	9.5 6.4	1.5 8.5			34	2.4				-
	11/11/2014 3/30/2015	< 42	<.42	0.5 <.42	46.7 50.8	3.9 0.47	5.5 5.2	1.3 4.1			<1.2 <1.2	0.59				
	6/30/2015	<.42	<.42	<.42	129	12.8	11.1	14			2.5	1.6				
	9/28/2015 3/22/2016	0.82	<.42	0.87	250 248	18.8 22.7	3.8	9.1 10.6			3.5	1.5				
	6/30/2016	0.45	0.44	0.89	155	12.6	4.7	6.3			21	11				
/-21							-									
	12/4/1997 9/2/1998			4.7 35.5	310 26	12 22	< 1.2	<.5 NA			120 32	5.7 67	NA NA	<1.2 NA	<1.2 NA	<.89 NA
	6/30/1999			457	17	87	<1.1	NA NA			356	42	NA NA	NA NA	NA NA	22
	12/18/2008	24 8 107	12.8	37.6 141.8	8.22	1.53	<.3 52.6	14.9 8.19	6.75	1.45	8.2 50.5	2.07 3.39	NA NA	NA NA	NA NA	NA NA
	1/19/2010	826	292	1118	<3.1	69.8	494	73.5	235	22.4	257.4	<37	NA	NA	NA	NA
-	4/27/2010 7/27/2010	6.23	3 37	9.6	3 <.31	<.5 <.5	8.82	2 88	<.62	<.77	< 77 < 77	1.36	NA NA	NA NA	NA NA	NA NA
	4/25/2011	0.3	<.2	0.3	< 2	0 27	<.5	<1	<.4	<.2	<.4	< 4	<.4	<.3	<.3	NA
,	12/12/2011 3/26/2012	3.88	2.34	6.22	5.8 <.31	5.41	10 7	7.41	1 59	1.41 < 77	3 <.77	5 52	NA NA	NA NA	NA NA	NA NA
	11/11/2014	<.42	< 42	< 42	< 4	<.39	<.48	< 42	02	-11	<1.2	2	INA	IVA	INA	INA
	3/30/2015 6/30/2015	< 42	<.42	< 42	<.4	<.39 <.39	<.48	<.42 < 42			<1.2	<.39				
	9/28/2015	0.46	<.42	< 42	<.4	1,1	<.48	<.42			<1.2	0.45				
	3/22/2016 6/30/2016	<.42	<.42	<.42	<.4	< 39 <.39	< 48	< 42			<1.2 <1.2	< 39				-
			- 16	. 14		-,00	-,40	- 16			11.6	-33				-

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Well	Date	124 TUP	135700	Total THO	I Bonson	Ethylhenses	MYDE	Naphthalara	I men vulees	Loxulore	Total Yutones	Tolyana	Chloromothano	112004	EDB	Dis. Pb
NR140 ES	Date	1,2,4-1MB	1,3,3-1MB	Total IMB	5 S	Ethylbenzene 700	MIBE	Naphthalene	map-xylene	0-xylene	2000	BOO	Chloromethane	1,2 UCA	0.05	15
NR140 PAL				96	0.5	140	12	10			400	160	3	0.5	0 005	1.5
PZ-4																
	12/4/1997			520	2000	380	<5	16			1600	1500	NA NA	<5	<5 NA	<.89 NA
	9/2/1998			105	360	<22	<1.6 5.9	NA NA			310 24	69	NA NA	NA NA	NA NA	NA NA
	3/16/1999			11.7	180	7.2	<33	<24			7.6	<24	NA	26	<2	<1.2
	6/30/1999			1.7	250	23	<.44	NA			5.7	3.5	NA	NA	NA	<28
	12/18/2008	<.4	<.31	<.4	1.37	<.5	<.3	<.8	<.62	< 36	<.62	< 3	NA	NA	NA	NA
	-	destroyed dur	ing 2009 exc	avation			-									_
PZ-5	1															
	11/10/1998			6.7	18	5	<.66	<.49			23	24	NA	<.55	< 39	0.9
	3/16/1999			<.45	<.31	< 26	<.66	<.49			<1	< 48	NA	< 55	<.39	<1.2
	6/30/1999			<1.4	0.34	< 24	< 22	NA NA			<1 34	03	NA	NA	NA	<2.8
	12/18/2008	destroyed dur	ing 2009 evo	avation			-									
		02000703 441	I LOUD CAC	I												
PZ-6																
	11/9/1998			< 45	<.31	< 26	< 66	< 49			<1.	<.48	NA	< 55	<.39	<.89
-	6/30/1999	< 4	< 31	<1.4	< 26	<.24	<.22	AA < 8	<.62	<.36	<1.34 <62	<.21	NA NA	NA NA	NA NA	<2.8 NA
	4/25/2011	<2	<.2	<.2	<.2	< 2	<.5	<1.	<.4	< 2	<.4	<4	<4	<.3	<3	NA
											3.7			-,0	- 5	10.
PZ-7																
-,,	11/9/1998			< 45	<.31	<.26	< 66	< 49			<1.	<.48	NA.	< 55	< 39	<.89
DV	6/30/1999 12/18/2008	<.4	< 31	<1.4	<.26	<.24 <.5	<.22	NA <.8	< 62	<.36	<1.34 <.62	< 21	NA NA	NA NA	NA NA	<2.8 NA
	4/25/2011	<2	<2	<.2	<.2	<.2	<.3	<1	<4	< 2	<.4	<.4	<4	< 3	<.3	NA NA
																1
PZ-8																
	11/10/1998 3/16/1999			< 45 < 45	<.31	< 26	< 66	< 49			<1	< 48	NA NA	< 55 < 55	< 39	<.89
	6/30/1999		-	<1.4	19	<.26 0.28	<.22	NA NA		-	<1.34	0.42	NA NA	NA	NA.	<2.8
THE	12/18/2008	< 4	<.31	<.4	<.31	<.5	< 3	<.8	< 62	<.36	<.62	< 3	NA NA	NA	NA	NA
0	4/25/2011	< 2	<.2	<.2	<.2	<.2	<.5	<1.	<.4	< 2	<.4	<.4	<4	<.3	< 3	NA
	9/28/2015	<.42	<.42	< 42	<.4	< 39	< 48	<.42			<12	<.39				
07.0	-															
PZ-9	11/10/1998			0.33	< 31	< 26	< 66	< 49			<1	1	NA	<.55	<.39	<.89
	3/16/1999			1.7	< 31	< 26	< 66	<.49			<1	< 48	NA	<.55	< 39	3.5
V/	6/30/1999			<14	< 26	<.24	< 22	NA			<1.34	< 21	NA	NA	NA	<2.8
DV	12/18/2008	< 4	< 31	<.4	< 31	<.5	< 3	<.8	< 62	< 36	<.62	< 3	NA	NA	NA	NA
	9/28/2011 9/28/2015	< 42	<.2	<.42	< 2	<.2	< 5	<1	<.4	<.2	<12	<.4	<4	<.3	<.3	NA
-	9/28/2015	< 42	< 42	<.42	<,4	< 39	<.48	< 42			<12	< 39				1
PZ-10																
	11/10/1998			0.46	7.8	< 26	< 66	<.49			3.8	0.78	NA	< 55	< 39	< 89
	3/16/1999			< 45	1.6	< 26	< 66	< 49			<1	< 48	NA NA	< 55	<.39 NA	<12
	6/30/1999	could no	tlocate	<1.4	22	0.49	< 22	NA			0.55	0 44	NA	NA	NA	<28
	10/26/2009	< 4	< 44	<.44	< 31	<.5	< 3	< 8	< 62	<77	<.62	<.37	NA NA	NA	NA	NA
	1/19/2010	<.4	<.44	< 44	<.31	<.5	<.3	<.8	< 62	< 77	< 62	<.37	NA	NA	NA	NA
	4/27/2010	< 4	<.44	<.44	<.31	< 5	<.3	<.8	<.62	<.77	<.62	<.37	NA	NA	NA	NA
	7/27/2010	<.4	<.44	< 44	<.31	<.5	<.3	< 8	<.62	<.77	<.62	<.37	NA <4	NA	NA	NA
	4/25/2011 12/12/2011	< 2	< 2	<.2	<.31	<.2	<.5	<1. <2	<.4	<.77	<.4	<.37	NA NA	<.3 NA	<.3 NA	NA NA
	3/26/2012	<.4	<.44	< 44	0.74	<.5	<3	<2	< 62	<.77	<.77	<.37	NA NA	NA	NA	NA
	5/16/2013	<.33	<.36	<.36	<.34	<.34	<.37	<.37			<1	<.34				
1/	8/29/2013	< 33	<.36	<.36	< 34	<.34	<.37	< 37			<1	<.34				
7	11/11/2014	< 42	<.42	<.42	<.40	<.39	<.48	<.42		-	<1.2	< 39				-
V-	3/30/2015 6/30/2015	< 42	< 42	<.42	<.40	<.39	< 48	< 42 < 42			<1.2 <1.2	<.39		-		
	9/28/2015	<.42	< 42	< 42	< 40	< 39	< 48	< 42			<1.2	< 39				
	3/22/2016	<.42	< 42	< 42	< 40	< 39	< 48	< 42			<1.2	< 39				
	6/30/2016	<.42	<.42	< 42	0.5	<.39	< 48	< 42			<1.2	< 39				
PZ-10B						-								-		
FZ-10B	12/12/2011	<2	<2	<2	<2	<2	<5	<10	<4	<2	<4	<4	<4	<3	<4	NA
	3/26/2012	0.26	0.25	0.51	0.43	0 44	<.5	<1	0.56	0.42	0.98	<.4	<4	1.03	<.4	NA
	5/16/2013	1.3	< 36	< 36	< 34	< 34	< 37	<.37			<1	< 34				
	8/29/2013	0.85	< 36	0.85	< 34	< 34	< 37	< 37			<1	0.48				-
	3/30/2015	< 42	<.42	<.42	< 40	< 39	< 48	< 42			<1.2 <1.2	< 39			-	-
A	6/30/2015	< 42	<.42	<.42	< 40	<.39	< 48	< 42			<1.2	< 39				
	9/28/2015	< 42	<.42	<.42	<.40	<.39	<.48	< 42			<1.2	<.39				
	3/22/2016	< 42	<.42	<.42	< 40	<.39	< 48	<.42			<12	< 39				
	6/30/2016	<.42	<.42	< 42	< 40	< 39	<.48	<.42	1		<1.2	< 39		-	-	-
PZ-11	-												-			
12-11	11/9/1998			< 45	< 31	<.26	< 66	<.49			<1	<.48	NA	<.55	<.39	<.89
	6/30/1999			<1.4	<.26	< 24	<.22	NA			<1.34	<.21	NA	NA	NA	4.1
4/	12/18/2008	could not loc														
T	4/25/2011	<.2	< 2	<.2	<.2	< 2	<.5	<1.	< 4	< 2	<.4	<.4	<4	<.3	< 3	NA
_	9/28/2015	<.42	< 42	<.42	< 4	< 39	< 48	< 42			<1.2	< 39				-
							-									
			A STATE OF THE PARTY.	The second section is a second second				AND DESCRIPTION OF THE PARTY OF								

Well	Date	1,2,4-TMB	1,3,5-TMB		Benzene				m&p-xylene	o-xylene			Chloromethane		EDB	Dis. Pb
NR140 ES				480	5	700	60	100			2000	800	30	5	0.05	15
NR140 PAL				96	0.5	140	12	10			400	160	3	0.5	0 005	1.5
MW-22							_									
MYY-ZZ	12/4/1997			<.35	<.1	<.25	< 25	<.1			< 25	< 1	NA	< 25	< 25	<.89
111	12/18/2008	<.4	<.31	< 4	< 31	<.5	<.3	<.8	<.62	< 36	<.62	< 3	NA	NA	NA	NA
	4/25/2011	<.2	<.2	<.2	< 2	< 2	< 5	<1.	< 4	<.2	<.4	<.4	<4	< 3	< 3	NA
	9/28/2015	<.42	<.42	<.42	<.4	< 39	< 48	<.42			<12	< 39				
MW-23	11/9/1998			<.45	< 31	< 26	< 66	< 49			<1	<.48	NA	<.55	<.39	<.89
	3/16/1999			<.45	< 31	<.26	< 66	< 49			<1	< 48	NA NA	< 55	<.39	<1.2
de	6/30/1999			<1.4	<.26	<.24	< 22	NA			<1 34	< 21	NA	NA	NA	<28
0	12/18/2008	<.4	<.31	<.4	< 31	<.5	<.3	<.8	<.62	< 36	< 62	< 3	NA	NA	NA	NA
	4/25/2011	<.2	<.2	<.2	<.2	< 2	< 5	<1.	< 4	< 2	<.4	< 4	<4	< 3	<.3	NA
MW-24																
m11-24	11/10/1998			<.45	2.6	< 26	< 66	<.49			<1.0	< 48	NA	< 55	<.39	12
	3/16/1999			<.45	<.31	< 26	<.66	<.49			<1	< 48	NA	<.55	<.39	<1.2
11 .	6/30/1999			<14	2.4	< 24	< 22	NA			<1.34	<.21	NA	NA	NA	6
	12/18/2008	<.4	< 31	< 4	< 31	< 5	< 3	< 8	<.62	<.36	<.62	< 3	NA	NA	NA	NA
	4/25/2011 9/28/2015	< 42	<.2	<.42	<.2	< 2	< 48	<1.	<.4	< 2	<12	<.4	<4	<.3	< 3	NA
	8/20/2015	1.42	1.42	5,42	- 4	C.39	<.40	- 42			~1.2	<.39				
PZ-1																
	12/12/1996			1710	35000	2400	<100	430			11000	31000	NA	2500	<1000	64
	12/4/1997			2250	21000	2800	<50	120			13000	28000	NA	<50 NA	450 NA	NA NA
	11/10/1998	1390	540	3 9 1930	9580	4.1 1580	<150	NA <400	6880	1280	8160	49 17500	NA NA	NA NA	NA NA	NA
		destroyed dur			9300	1300	130	2400	0500	1200	8100	17300	INA	110	100	142
PZ-1R	installed 9/29/															
	10/26/2009	1700	403	2103	22400	2550	<75	376	7850	3410	11260	18800	NA	NA	NA	NA
	1/19/2010	2330	651	2981	25200	2730	<75	1190	8960	3980	12940	16000	NA	NA	NA	NA
-	4/27/2010 7/27/2010	1340 1280	371 330	1711 1610	11800 24700	824 2280	<75 <75	628 677	4640 6890	2110 3280	6750 10170	7590 16400	NA NA	NA NA	NA NA	NA NA
-	4/25/2011	1240	308	1548	23400	386	<250	<500	6260	3050	9310	15300	238	<150	765	NA
Oly	12/12/2011	795	726	1521	13300	1000	<500	<1000	4750	2180	6930	9010	<400	NA	NA	NA
7	3/26/2012	782	<200	782	8630	777	<500	<1000	3280	1550	4830	5460	<400	<300	<400	NA
,	5/16/2013	1420	373	1793	9280	2150	41.2	355			8530	5510				
	8/29/2013 11/11/2014	1350 1310	342 330	1692 1640	7500 4120	1990 1810	23.7 <12.1	354 357			7990 6620	3320 942				
	3/30/2015	1290	311	1601	5930	1710	<24.2	332			6780	1570				
	6/30/2015	1290	337	1627	5200	2000	263	316			6570	1380				
	9/28/2015	1210	303	1513	2500	1650	<12 1	309			5300	709				
	3/22/2016	1180	310	1490	2330	1490	13.9	292			4900	652				
	6/30/2016	1190	304	1494	4040	1620	15.3	301			5010	738				
PZ-2																
	12/4/1997			2250	30000	2600	<50	290			12000	27000	NA NA	<50	<50	95
	9/2/1998			1100	14000	1200	<16	NA			5800	13000	NA	NA	NA	NA
	11/10/1999 3/16/1999			750 1700	3800 28000	550 2100	120 <660	NA <490			2700	4400 25000	NA NA	NA <550	NA 410	NA 38
	6/30/1999			1620	27000	2100	<55	NA			10000 9800	23000	NA NA	NA NA	NA NA	53
	10/26/2009	614	166	780	12900	1180	<30.	198	3640	1700	5340	13800	NA	NA	NA	NA
	1/19/2010	1050	286	1336	20400	1910	<30.	505	5760	2730	8490	21900	NA	NA	NA	NA
1	4/27/2010	1040	267	1307	21000	2010	<30	486	6020	2940	8960	24300	NA	NA	NA	NA
	7/27/2010 4/25/2011	1080 1130	280 839	1360 1969	18800 26900	2030 2290	<60 <250	595 <500	6150 6890	3030 2780	9180 9670	22200 29000	NA 790	NA 532	NA 211	NA NA
	12/12/2011	618	513	1131	15800	1230	<500	<1000	4040	1600	5640	17800	<400	359	<400	NA
N	3/26/2012	863	<200	863	16400	1380	<500	<1000	4180	1740	5920	18600	<400	<300	<400	NA
	5/16/2013	984	251	1235	16400	1850	<92.8	373			8360	19100				
	8/29/2013	1080	269	1349	17800	2120	<74.2	414			9300	21600				
	11/11/2014 3/30/2015	1220 1400	323 353	1543 1753	16800 18500	1950 2110	<60.6 <97	410 429			8900 9630	19700				-
	6/30/2015	1090	286	1376	18300	2130	<121	363			9150	21200				
	9/28/2015	1150	301	1451	16000	1890	<97	409			8340	18400				
	3/22/2016	989	269	1258	15400	1660	<19.4	309			8060	18900				
	6/30/2016	909	230	1139	16300	1930	<48.5	331			8440	19300				
PZ-J																
123	12/4/1997			< 35	< 1	<.25	< 25	<.1			< 25	<.1	NA	<.25	<.25	< 89
	11/9/1998			<.51	< 13	<.22	< 16	NA			< 23	<.2	NA	NA	NA	NA
	12/18/2008	<.4	<.31	<.4	< 31	<.5	<.3	<.8	< 62	< 36	< 62	<.3	NA	NA	NA	NA
	4/25/2011 9/28/2015	< 42	<.2	<.42	<.2	<.2	<.5	< 42	<.4	<.2	<1.2	< 39	<4	<.3	<.3	NA

Page 3 of 4

Table 1: Post-Remedial Soil Samples

Odau Station Westboro, Wisconsin Meridian No. 05F754

Samples collected 8/12/09 from perimeter of excavation at 4 feet depth

1,2,4-TMB	1,3,5-TMB	Benzene	Ethylbenzene	m&p-xylene	o-xylene	Total Xylenes	MTBE	Naphthalene	Toluene
mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
<.013	<.018	0.078	0.069	0.189	0.069	0.258	<.011	<.018	0.424
116	37.4	6.6	49.2	161	73.4	234.4	<.222	22.5	129
0.042	<.019	0.1	0.096	0.205	0.076	0.281	<.011	<.019	0.483
0.04	<.02	0.064	0.085	0.169	0.064	0.233	<.012	<.02	0.322
0.06	<.019	0.09	0.078	0.191	0.081	0.272	<.012	<.019	0.354
0.057	<.019	0.063	0.106	0.233	0.059	0.292	<.011	<.019	0.459
1.38	0.426	0.083	0.293	0.806	1	1.806	<.012	0.948	1.5
0.061	<.019	0.074	0.106	0.237	0.107	0.344	<.011	<.019	0.506
	mg/kg <.013 116 0.042 0.04 0.06 0.057 1.38	mg/kg mg/kg <.013	mg/kg mg/kg mg/kg <.013	mg/kg mg/kg mg/kg mg/kg <.013	mg/kg mg/kg mg/kg mg/kg mg/kg <.013	mg/kg 0.069 0.069 0.189 0.069 0.069 116 37.4 6.6 49.2 161 73.4 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.076 0.064 0.085 0.169 0.064 0.081 0.081 0.081 0.081 0.081 0.081 0.083 0.106 0.233 0.059 1.38 0.426 0.083 0.293 0.806 1	mg/kg ng/kg ng/kg <th< td=""><td>mg/kg mg/kg ng/kg <th< td=""><td>mg/kg mg/kg ng/kg <th< td=""></th<></td></th<></td></th<>	mg/kg ng/kg ng/kg <th< td=""><td>mg/kg mg/kg ng/kg <th< td=""></th<></td></th<>	mg/kg ng/kg ng/kg <th< td=""></th<>

NTEDC*	89.8	182	1.49	7.47		258	59.4	5.15	818
*Not To Exceed	Direct Con	tact Limit fro	om DNR W	/ebpage					

Bold - concentration exceeds NTEDC

Table A.3: Post-Remedial Soil Samples

Odau Station Westboro, Wisconsin Meridian No. 05F754

Samples collected 8/12/09 from perimeter of excavation at 4 feet depth

Sample	1,2,4-TMB	1,3,5-TMB	Benzene	Ethylbenzene	m&p-xylene	o-xylene	Total Xylenes	MTBE	Naphthalene	Toluene
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
S	<.013	<.018	0.078	0.069	0.189	0.069	0.258	<.011	<.018 ⁻	0.424
N (near pump island)	116	37.4	6.6	49.2	161	73.4	234.4	<.222	22.5	129
ES	0.042	<.019	0.1	0.096	0.205	0.076	0.281	<.011	<.019	0.483
EM	0.04	<.02	0.064	0.085	0.169	0.064	0.233	<.012	<.02	0.322
EN	0.06	<.019	0.09	0.078	0.191	0.081	0.272	<.012	<.019	0.354
WS	0.057	<.019	0.063	0.106	0.233	0.059	0.292	<.011	<.019	0.459
WW	1.38	0.426	0.083	0.293	0.806	1	1.806	<.012	0.948	1.5
WN	0.061	<.019	0.074	0.106	0.237	0.107	0.344	<.011	<.019	0.506

NTEDC*	89.8	182	1.49	7.47		258	59.4	5.15	818
*Not To Exceed	act Limit fro	m DNR We	bpage						

Bold - concentration exceeds NTEDC

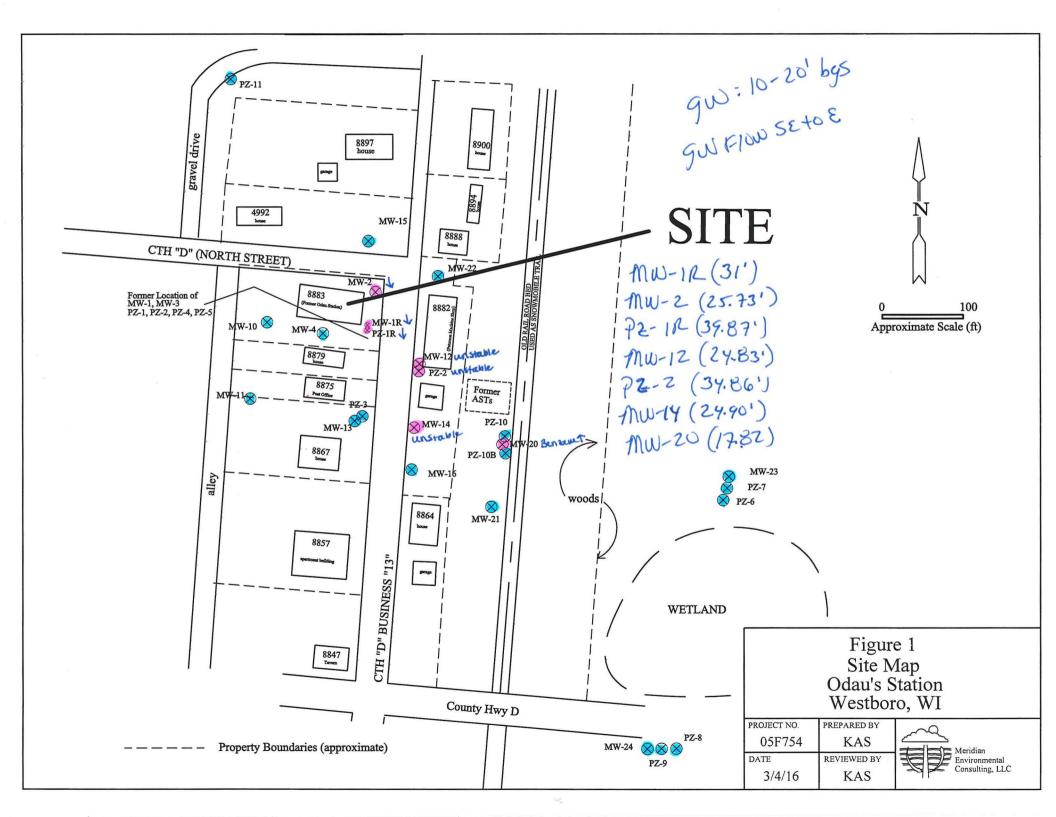
D.c.

D.C. + Soil to sw

1,2,4 TMb Benzene Ethybenzene 500 ch

total xylenes

Toluene



APPENDIX B

Cost Estimates and Bidding Documents

Ken Shimko

From: Sent:

Dan Miller < DMiller@co.lincoln.wi.us> Tuesday, March 07, 2017 8:45 AM

To:

Ken Shimko (kshimko.meridianenv@gmail.com)

Cc:

Louise Fox

Subject:

pricing

Ken, for petroleum impacted soil from Westboro, the landfill would charge \$23 per ton. This is assuming the analytical analysis does not indicate problems with metals or high VOCs we aren't anticipating. This rate is also for an assumed 100 to 500 tons of material.

Dan Miller Lincoln County Solid Waste Manager 801 N. Sales Street, Suite 201 Merrill, WI 54452 Phone: (715)536-9636

e-mail: dmiller@co.lincoln.wi.us

[&]quot;Pollution is just a resource that is out of place" Prof. Bob Miller UWSP circa 1978

Manor Construction and remodeling LLC 501 Lake Rd. Altoona WI 54720 (715) 456-7639

February 23, 2017

Manor Construction here by proposes to provide the materials and labor for Westboro job.

Project to include: Framing beam and support post to hold up building while excavating is being performed. Install 25'x12" double laminated beam and three temporary steel posts and brace all post with 2x6 framing to hold post. Pick up and hall all material to Westboro job site. One 12'x18" frost tube, one concrete disk, 2x6 boards, 25'x12" laminated beams and steel bottle jack posts. Return and remove all support beams and install permanent steel bottle jack post to existing steel beam. Includes all travel, mileage, tools, trailer and lodging.

Total of all material and labor:

Due to excavating underneath support beam area, Manor Construction cannot be Responsible for any damage to existing structure due to settling.

\$ 5,000.00

Date:	Respectfully Submitted
	Per Manor Construction LLC
remainder upon completion o	on payment of 1500.00 do upon acceptance of proposal and f job. The above prices, specifications and conditions are cepted. You are authorized to do the work as specified. bove.
Date:	Signature:
	Meridian Enviroment
	2711 N Elco Rd.

Fall Creek WI 54742

715-579-0723 Att. Ken Shimko



March 7, 2017

Kenneth Shimko, PG Meridian Environmental Consulting 2711 North Elco Road Fall Creek, Wisconsin 54742 (715)579-0723 (cell)

Email: kshimko.meridianenv@gmail.com

Project: Westboro Petroleum Impacted Soil

Dear Kenneth,

Waste Management of Wisconsin is pleased to provide you with pricing for disposal per your request. Based upon the information provided, the following summarizes our quotation.

DISPOSAL FACILITY:

Timberline Trail RFD N4581 Hutchinson Road Weyerhaeuser, WI 54895

WASTE STREAMS

Waste Description Petroleum Impacted Soil

Disposal Method Bioremediation **Estimated Volume** 100-500 tons

Disposal Price-\$25 per ton (4 ton min)

= 27/ ton Wisconsin Generator Tax WAIVED Landfill Environmental Fee \$1.00 per ton Disposal Fuel Surcharge \$1.00 per ton

Profile Approval Fee \$100.00 one time fee

ANALYTICAL TESTING REQUIREMENTS:

Complete and submit profile with analytical testing attached - submit online www.wmsolutions.com

SPECIAL CONDITIONS:

Waste must meet acceptability criteria at the site and comply with local, state and federal regulations, as well as the sites permit requirements. Pricing is contingent upon analytical testing and approval. Customers must have a current Waste Management Industrial Service Agreement.

Pricing is open for consideration for a period of 30 days. Upon acceptance, pricing remains in effect up to and including 60 days from the date of the quote. Pricing based solely on the information available at this time. Additional information may be required prior to approval.

Please do not hesitate to contact me at the phone number below with any questions you may have or if you require any further assistance.

Sincerely,

Lisa A Jaupp Lisa Gaupp Industrial Account Manager Manufacturing & Industrial

lgaupp@wm.com 920.205.5633