

Meridian Environmental Consulting, LLC

June 18, 2018

Matthew Vitale Wisconsin Department of Natural Resources 1300 West Clairemont Avenue Eau Claire, Wisconsin 54701

Subject:

Change Order:

- Remedial Excavation
- Install Monitoring Wells
- Ground Water Sampling (2 quarters)
- Letter Report

Julson Store (former)
W125 County Road Z
Mondovi, Wisconsin
PECFA No. 54755-9999-25
DNR BRRTS No. 03-06-001296
Meridian No. 05F823

Dear Matt:

This Change Order is for the following tasks at this site:

- Remedial Excavation
- Install Monitoring Wells
- Quarterly Ground Water Monitoring (2 quarters)
- Letter Report

The remainder of this letter describes the proposed work and a cost estimate for the proposed work.

BACKGROUND INFORMATION

Please refer to file reports for more detail regarding this site. A brief summary is provided here.

The site is a former country store located in Dover Township, Buffalo County, Wisconsin. The site is currently a vacant parcel approximately 1 acre in size located at the southeast corner of Hwy. BB and Z (Figure 1). The former building is removed and no other structures are located on the property.

In 1994, a small (300 gallon) underground storage tank was removed from the store. Petroleum impacts were measured in the soil underneath the tank.

A Site Investigation was completed in 2017 and 2018. This work included installing soil borings, temporary monitoring wells, 5 monitoring wells (MW-1 thru MW-5A) and one piezometer (MW-5B). Soil and ground water samples confirmed the petroleum impacts remained in the soil and ground water. Meridian recommended excavating the impacted source soils followed by two (2) quarters of ground water sampling.

WORK PLAN

Remedial Excavation

The site investigation determined impacted soils remained in the former tank area. Figure 2 illustrates the impacted soil area and proposed excavation. Figure 3 is a cross-section illustrating the vertical extent of impacted soils.

A remedial excavation will be completed to remove as much of the impacted soil as possible. The excavation will be limited by buried telephone wires, power pole, and the road right-of-way (ROW).

We estimate the excavation dimensions (elliptical) as 40 ft x 25 ft x 10 ft deep (ground water is typically 8-10 ft below grade). This will yield approximately 450-500 tons of impacted soil. Clean overburden soils will be set aside for re-use as backfill. Meridian will determine "clean" using soil sample data and field observations (e.g., odor, staining, field measurements (PID)).

The excavated soil will be disposed at Advanced Disposal landfill in Eau Claire. Clean sand will be used as backfill. The excavation will be topped with gravel.

Confirmation samples will be collected from the sidewalls of the excavation from depths of 3 feet and 8 feet. Two floor samples will be collected (these samples will likely be from saturated soil). The samples will be analyzed for PVOC + Naphthalene.

Abandon MW-2 and MW-3/Install replacement monitoring well

Monitoring wells MW-2 and MW-3 will be abandoned prior to the excavation.

After the excavation is completed, a replacement monitoring well will be installed in the former excavation.

Install additional monitoring wells

The extent of impacted ground water determined with the current monitoring well network is shown in Figure 4. It is possible the ground water plume extends to the northeast or northwest bypassing MW-5A and MW-5B. To investigate this possibility, we recommend three additional monitoring wells be installed in the locations shown on Figure 4. The wells will be water table wells (i.e., screened 5-15 ft below grade).

After the new wells are installed, their elevation and location will be surveyed.

Ground Water Monitoring

The monitoring well network (onsite well, MW-1, MW-4, MW-5A, MW-5B, replacement well in excavation, and three new wells) will be sampled quarterly twice. The samples will be analyzed for PVOC+Naphthalene.

Letter Report

The results of the work will be documented in a Letter Report. This letter report will summarize the work completed, present the results of the soil and ground water sampling and present our recommendations to achieve Closure with GIS Registry for Soil and Ground Water.

COST

A Cost Estimate for the proposed work is included. This Cost Estimate was prepared using the Usual and Customary Cost Schedule. The excavation cost was determined by obtaining Bids. Three Bids were requested but only two contractors (DKS and Doug's Excavating) responded to the Bid Request. Based on the two Bids, we recommend Doug's Excavating be hired to complete the excavation.

Consulting time was estimated using U&C Labor Rates.

The remaining costs were estimated using the Usual and Customary Cost Schedule.

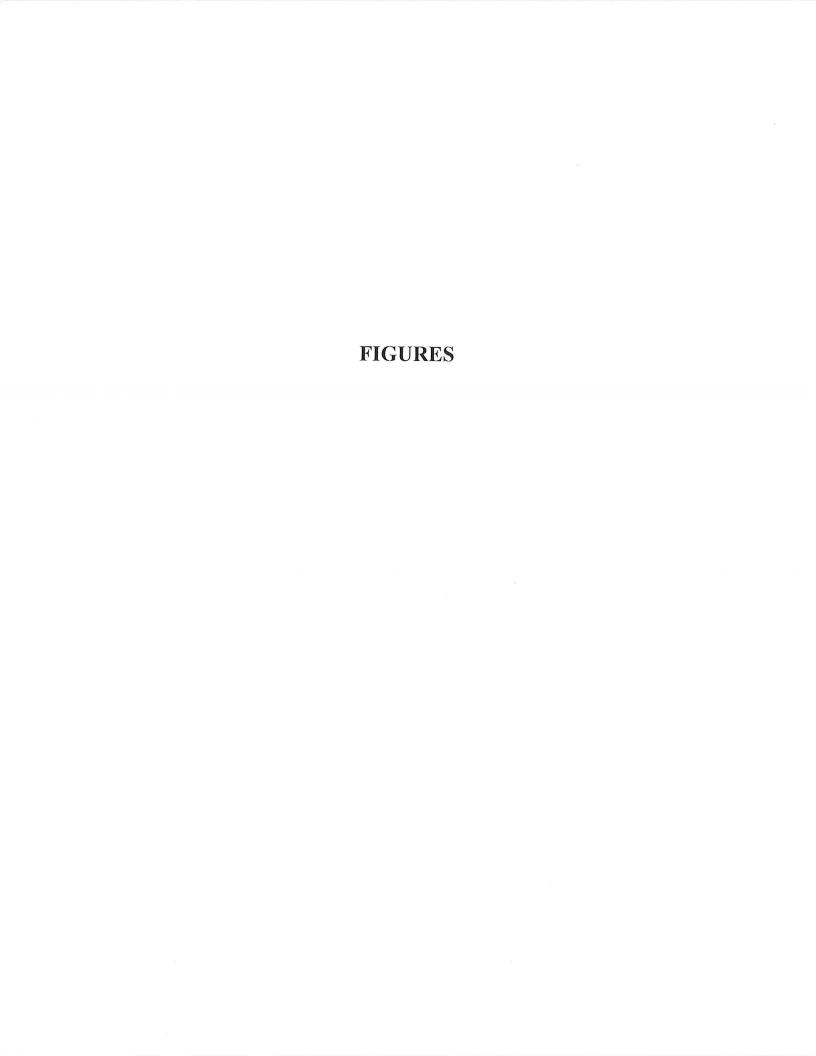
SCHEDULE

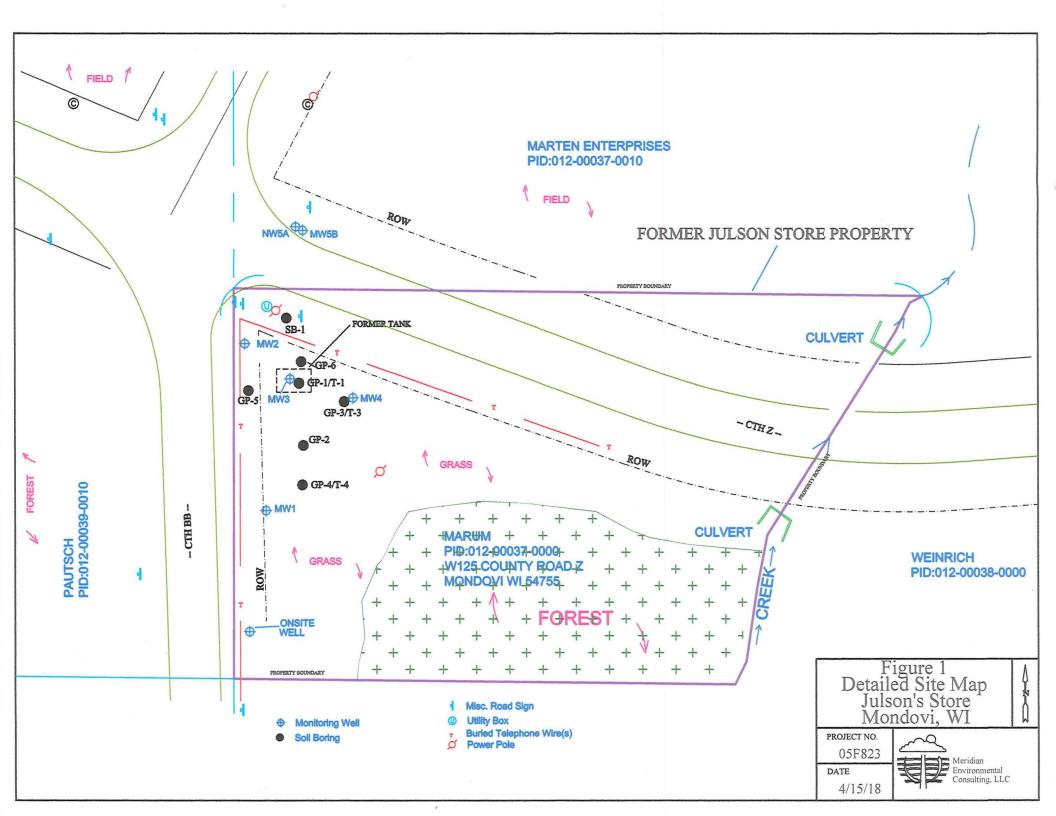
We plan to complete the excavation in August when the water table is expected to be low.

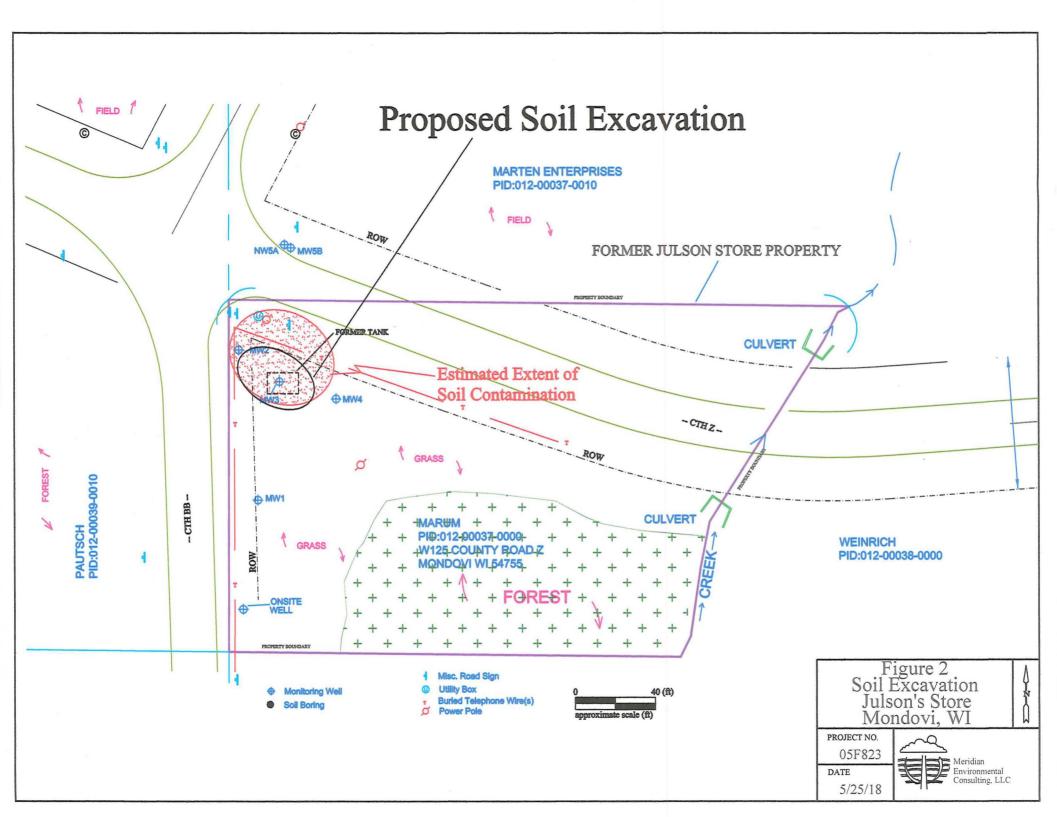
Sincerely,

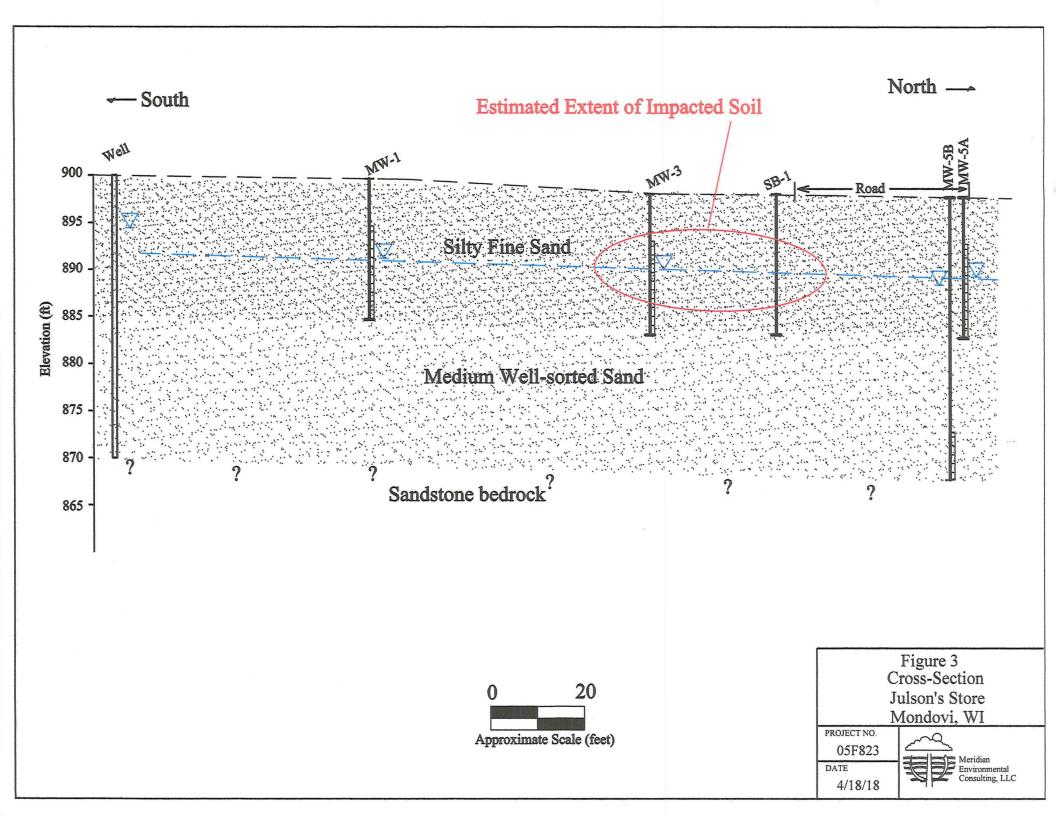
MERIDIAN ENVIRONMENTAL CONSULTING, LLC

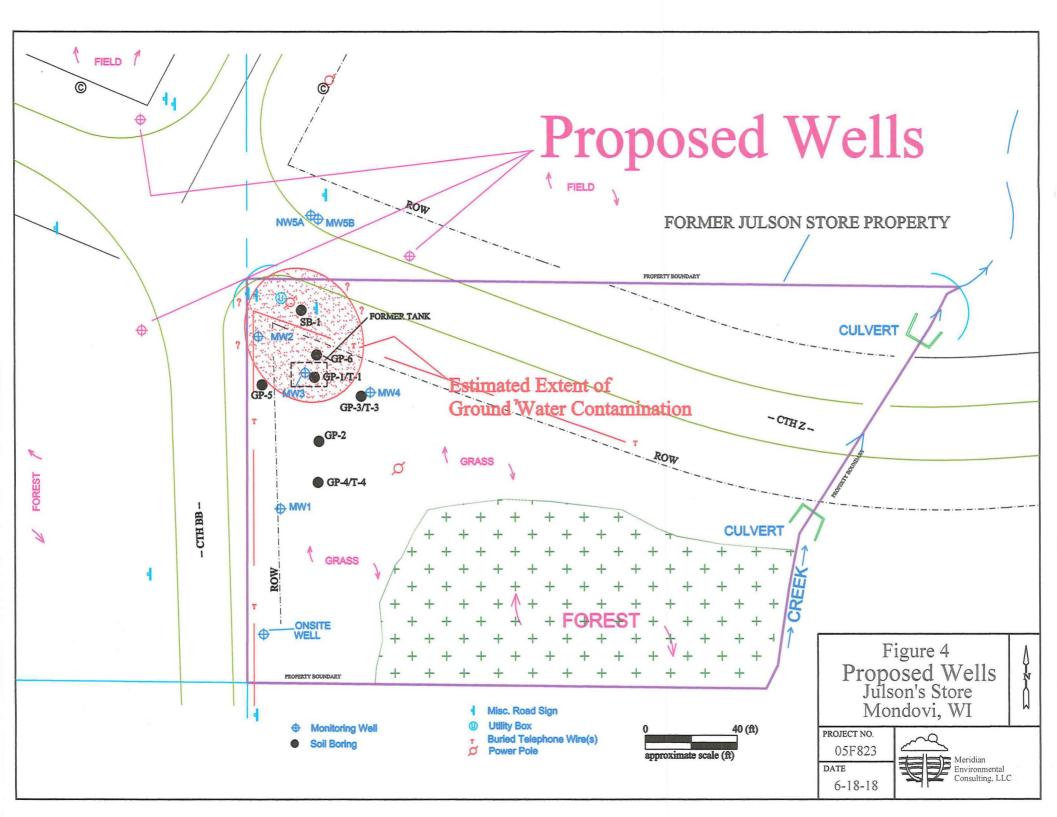
Kenneth Shirako, PG Project Manager











CHANGE ORDER

(with supporting Bids)

Usual and Customary Standardized Invoice #23 January 2018- June 2018





PECFA #: 54755-9999-25 BRRTS #: 03-06-001296 Site Name: Julson Store Site Address: W125 CTH Z, Mondovi Vendor Name: Change Order Invoice #: Change Order

Invoice Date: June 2018 Check #: Change Order

U&C Total \$ 11,538.18 Variance to U&C Total \$ 36,079.48

Grand Total \$ 47,617.66

MAX UNIT ACTIVITY REFERENCE CODE DESCRIPTION

Install one (1) replacement MW and three (3) downgradient MWs (NW & NE of source area). Survey. Develop. Sample onsite well, MW-1, MW-4, MW-5A, MW-5B, replacement well (in excavation), three new MWs (NW&NE) = 9 wells x 2 qtrs = 18 GW samples. Dispose purge water. Letter Report (summarize excavation and GW sampling). **GW Sampling** GS05 Sample Collection Well 72.45 18 \$ 1,304.10

•	GVV Sampling		9303	Sample Collection	VVCII	Ψ	12.40	10	Ψ	1,004.10
1	GW Sampling		GS25	Primary Mob/Demob	Site	\$	628.11	2	\$	1,256.22
4	Waste Disposal	Consultant	WD05	Consultant Coordination	Site	\$	137.13	1	\$	137.13
4	Waste Disposal	Commodity	WD10	GW Sample and/or Purge	Drum	\$	42.11	2	\$	84.22
4	Waste Disposal	Commodity	WD25	Primary Mob/Demob	Site	\$	287.70	1	\$	287.70
6	Letter Report/Addendum		LRA05	Letter Report/Addendum	Letter	\$	1,039.29	1	\$	1,039.29
8	Well Abandonment	Consultant	WAB05	Coordination	Site	\$	162.86	1	\$	162.86
8	Well Abandonment	Consultant	WAB10	Water column < 30 ft	Ft	\$	2.52	30	\$	75.60
8	Well Abandonment	Consultant	WAB20	Bentonite Pellets (50lb bag - 1/4" pellet)	Bag	\$	10.82	1	\$	10.82
10	Initial Site Survey	Consultant	IS10	Subsequent Surveys	Well	\$	110.15	4	\$	440.60
13.b	Drilling In Unconsolidated Soils - Without Soil And/Or GW Sampling	Consultant	DR25	Consultant Oversight	Ft	\$	1.58	60	\$	94.80
13.b	Drilling In Unconsolidated Soils - Without Soil And/Or GW Sampling	Consultant	DR30	Primary Mob/Demob	Site	\$	505.16	1	\$	505.16
13.e	Drilling In Unconsolidated Soils - Without Soil And/Or GW Sampling	Commodity	DR60	Drilling in Unconsolidated Soils	Ft	\$	11.97	60	\$	718.20
14	Monitoring Well Installation	Consultant	MWI05	0 - 25 ft bgs	Ft	\$	3.89	60	\$	233.40
14	Monitoring Well Installation	Commodity	MWI15	2 inch PVC Casing	Ft	\$	16.70	60	\$	1,002.00
14	Monitoring Well Installation	Commodity	MWI20	Well Development	Well	\$	147.63	4	\$	590.52
15	Misc. Drilling Activities & Supplies		MDT05	Drill Rig Mob/Demob	Mob/Demob	\$	963.38	1	\$	963.38
15	Misc. Drilling Activities & Supplies		MDT10	Well Cover/flushmount	Each	\$	202.65	4	\$	810.60
20	Soil Boring/Monitoring Well Permits		SBMWP05	Soil Boring/Monitoring Well Permit (Buffalo County Hwy Dept)	Permit	\$	246.12	1	\$	246.12
24	Limited Soil Excavation	Commodity	LSE13	Laboratory (see task 24 total on Lab Schedule)	Lab Schedule			10	\$	360.20
33	Schedule Of Laboratory Maximums	Commodity		Laboratory (see task 33 total on Lab Schedule)	Lab Schedule			18	\$	546.30
34	Consultant Incremental Mob/Demob		IMD05	Incremental Mob/Demob (MW abandonment WAB30)	Site	\$	287.18	1	\$	287.18
36	Change Order Request		COR05	Change Order Request (cost cap exceedance requests)	Change Order	\$	381.78	1	\$	381.78
Variance	Soil Excavation (estima	te 500	tons)						
	Canaultina									

Consulting

And the second s					
	Bidding (Prepare Bid Documents. Coord with Subcontractor	s Hr	\$ 91.39	2	\$ 182.78
	Onsite Supervision (estimate 3 days x 10 hr days = 30 hours)	Hr	\$ 91.39	30	\$ 2,741.70
Excavator					
	Mob/Demob	Job	\$ 800.00	1	\$ 00.008
	Excavate/Replace Contaminated Soil	Ton	\$ 19.00	500	\$ 9,500.00
	Transport Soil to Landfill	Ton	\$ 18.00	500	\$ 9,000.00
	Gravel for Surface Finish	Ton	\$ 19.00	45	\$ 855.00
Landfill	Advanced Disposal (Eau Claire)	Ton	\$ 26.00	500	\$ 13,000.00

Variance

Usual and Customary Standardized Invoice #23 January 2018- July 2018





		TOTAL LAB CHARG	ES \$ 906.50	TASK 33	18		\$ 546.30	TASK 24	10	\$ 360.20
MATRIX	REF CODE	REIMBURSABLE ANALYTE	UNITS	MAX COST	SAMPLES		TOTAL	MAX COST	SAMPLES	TOTAL
AIR	A1	Benzene	SAMPLE	\$ 44.94			\$ -			
AIR	A2	BETX	SAMPLE	\$ 49.46			\$ -			
AIR	A3	GRO	SAMPLE	\$ 46.10			\$ -			
AIR	A4	VOC's	SAMPLE	\$ 71.93			\$ -			
WATER	W1	GRO/PVOC	SAMPLE	\$ 29.19			\$ -			
WATER	W2 W3	PVOC PVOC + 1,2 DCA	SAMPLE SAMPLE	\$ 26.99 43.79			\$ - \$ -			
WATER	W4	PVOC + Naphthalene	SAMPLE	\$ 30.35	1	8				
WATER	W5	VOC	SAMPLE	\$ 71.93			\$ -			
WATER	W6	PAH	SAMPLE	\$ 72.98			\$ -			
WATER	W7	Lead	SAMPLE	\$ 12.39			\$ -			
WATER	W8	Cadmium	SAMPLE	\$ 13.55		-	\$ -			
WATER	W9	Hardness	SAMPLE	\$ 12.39			\$ -			
WATER	W10	BOD, Total	SAMPLE	\$ 23.63			\$ -			
WATER	W11	Nitrate	SAMPLE	\$ 11.24			\$ -			
WATER	W12	Total Kjeldahl	SAMPLE	\$ 20.27			\$ -			
WATER	W13	Ammonia	SAMPLE	\$ 16.91			\$ -			
WATER	W14	Sulfate	SAMPLE	\$ 10.19			\$ -			
WATER	W15	Iron	SAMPLE	\$ 10.19			\$ -			
WATER	W16	Manganese Alkalinity	SAMPLE	\$ 10.19			\$ -			
WATER WATER	W17 W18		SAMPLE	\$ 10.19			\$ - \$ -			
WATER	W19	methane Phosphorous	SAMPLE SAMPLE	\$ 46.10 18.06			\$ -			
WATER	W20	VOC Method 524.2	SAMPLE	\$ 176.30			\$ -			
WATER	W21	EDB Method 504	SAMPLE	\$ 95.45			\$ -	MAX COST	SAMPLES	TOTAL
SOILS	S1	GRO	SAMPLE	\$ 24.78			\$ -	\$ 24.78	OAWII EEO	\$ -
SOILS	S2	DRO	SAMPLE	\$ 30.35			\$ -	\$ 30.35		\$ -
SOILS	S3	GRO/PVOC	SAMPLE	\$ 28.14			\$ -	\$ 28.14		\$ -
SOILS	S4	PVOC	SAMPLE	\$ 25.83			\$ -	\$ 25.83		\$ -
SOILS	S5	PVOC + 1,2 DCA + Naphthalene	SAMPLE	\$ 49.46			\$ -	\$ 49.46		\$ -
SOILS	S6	PVOC + Naphthalene	SAMPLE	\$ 36.02			\$ -	\$ 36.02	10	\$ 360.20
SOILS	S7	VOC	SAMPLE	\$ 71.93			\$ -	\$ 71.93		\$ -
SOILS	S8	SPLP Extraction VOC only	SAMPLE	\$ 50.61			\$ -	\$ 50.61		\$ -
SOILS	S9	PAH	SAMPLE	\$ 72.98			\$ -	\$ 72.98		\$ -
SOILS	S10	Lead	SAMPLE	\$ 12.39			\$ -	\$ 12.39		\$ -
SOILS	S11	Cadmium	SAMPLE	\$ 14.60			5 -	TAS	K 24 TOTAL	\$ 360.20
SOILS	S12 S13	Free Liquid	SAMPLE	\$ 11.24			\$ - \$ -			
SOILS	S13	Flash Point Grain Size - dry	SAMPLE SAMPLE	\$ 25.83 42.74			• - • -			
SOILS	S15	Grain Size - wet	SAMPLE	\$ 57.33			р - В -			
SOILS	S16	Bulk Density	SAMPLE	\$ 13.55			\$ -			
SOILS	S17	Permeability	SAMPLE	\$ 41.58			5 -			
SOILS	S18	Nitrogen as Total Kjeldahl	SAMPLE	\$ 20.27			5 -			
SOILS	S19	Nitrogen as Ammonia	SAMPLE	\$ 16.91			5 -			
SOILS	S20	% Organic Matter	SAMPLE	\$ 29.19		,	5 -			
SOILS	S21	TOC as NPOC	SAMPLE	\$ 57.33		5	5 -			
SOILS	S22	Soil Moisture Content	SAMPLE	\$ 6.83			5 -			
SOILS	S23	Air Filled Porosity	SAMPLE	\$ 25.83			5 -			
SOILS	S24	% Total Solids	SAMPLE	\$ 6.83		5				
SOILS	S25	Field Capacity	SAMPLE	\$ 28.14		,				
SOILS	S26	TCLP Lead	SAMPLE	\$ 83.16		,				
SOILS	S27 S28	Cation Exchange (Ca, MG, & K)	SAMPLE	\$ 26.99		,				
SOILS	S28 S29	TCLP Cadmium TCLP Benzene	SAMPLE	\$ 83.16 83.16			-			
SUILS	329	Viscosity + Density	SAMPLE	\$ 83.16		,	-			
		Interfacial tension I (LNAPL/water [dyne/cm])								
LNAPL	LFPS01	Interfacial tension II (LNAPL/air [dyne/cm])	SAMPLE	\$ 561.33			\$ -			
		Interfacial tension III (water/air) [dyne/cm])								
				TAS	K 33 TOTAL	L	546.30			

Ken Shimko

From:

Jeffrey Thomas < Jeffrey.Thomas@advanceddisposal.com>

Sent:

Monday, June 18, 2018 7:59 AM

To:

Ken Shimko

Subject:

RE: Julson Store soil disposal

Hi Ken,



Disposal is \$26.00 a ton.

Thanks,

Jeff

Jeff Thomas

Special Waste Sales Representative



8001 Olson Drive | Eau Claire | WI 54703

T: 715-858-9115 | F: 715-830-0285 | M: 715-495-2406 | E: jeffrey.thomas@advanceddisposal.com

Connect with us: AdvancedDisposal.com Facebook Youtube

Clean & Green: Please consider the environment before printing this e-mail

"Every Day, Driven to Deliver Service First, Safety Always"

From: Ken Shimko [mailto:kshimko.meridianenv@gmail.com]

Sent: Monday, June 18, 2018 6:01 AM

To: Jeffrey Thomas < Jeffrey. Thomas@advanceddisposal.com>

Subject: RE: Julson Store soil disposal

Jeff.

What is the disposal rate for the soil excavation at Julson Store?

We are planning for August.

Thanks

Kenneth Shimko, PG Meridian Environmental Consulting, LLC 2711 North Elco Road Fall Creek, Wisconsin 54742 (715)832-6608 (office) (715)579-0723 (cell)

Email: kshimko.meridianenv@gmail.com



Mendian Environmental Consulting, LLC

Exception furthern on to 500 hours of parties

And Local Parcer Chapter with the charter Prince of Contract

Units Misses:	100000000000000000000000000000000000000	16th 16th 16th 15th 15th 15th 15th 15th 15th 15th 15		
A Marketine and the second sec		Charles	CONTRACTOR OF THE PARTY OF THE	

"Actual Tonspor well be determined during the excavation. Actual tonnage may be less than \$50 rons. Contractor invarien will comply with Bid Amounts on o Per Ton Jasis (tonnage determined by landfill scoir)

Company SERVICE

Mendaling has district

Action of the Person

Radion County (Denies Township)

BID FORM: Soil Excavation Manager of the second of the s

2711 N Elso Road . Tall C

Scope of Work:

(715) 512-6608 · Fax (715) 532-676

BID FORM: Soil Excavation

W125 County Road Z (Corner of Hwy Z and BB) Buffalo County (Dover Township) Mondovi, Wisconsin Meridian No. 05F823

Scope of Work:

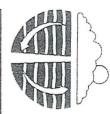
Excavate/replace up to 500 tons of petroleum impacted soil. Transport impacted soil to landfil (Eau Claire).

Actual tonnage will be determined during excavation and may be less than 500 tons

Task	Units	#Units*	Cost/Unit	Cost
Mob/demob to site	Job	1	2500-	2500-
Excavate/Replace Contaminated Soil per Bid Specs and as directed by Meridian	tons	500	23 -	11500-
Transport to Eau Claire Landfill (Advanced)	tons	500	23 -	11500 -
			Total:	25,500

^{*}Actual Tonnage will be determined during the excavation. Actual tonnage may be less than 500 tons. Contractor Invoice will comply with Bid Amounts on a Per Ton basis (tonnage determined by landfill scale)

Name: MACK & Sylving		,
Signature: MM S	Date:	6/418
Company: DKS Toushur Sensing		,,,,
Telephone: 715 556 2604		



Meridian Environmental Consulting, LLC



Meridian Environmental Consulting, LLC

May 27, 2018

REQUEST FOR BID

Bid Item:

Remove, Replace, Transport Petroleum

Contaminated Soil

Site Location:

W125 County Road Z (corner of Z & BB)

Dover Township, Buffalo County DNR BRRTS No. 03-06-001296 PECFA No. 54755-9999-25 Meridian No. 05F823

Bid Due:

June 13, 2018

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 (Eau Claire).

The attached Bid Specifications describe the job. A Pre-Bid meeting onsite is recommended – please call to arrange.

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

Sincerely,

MERIDIAN ENVIRONMENTAL CONSULTING, LLC

Kenneth Shimko, PG Project Manager Page 2

BID SPECIFICATIONS

Site Description:

- The site is a vacant parcel of land located at the SE corner of Hwy Z & BB in Dover Township, Buffalo County (see Figure). There was a small country store which sold petroleum. The underground tank leaked and was removed in 1994. The building is removed.
- The excavation will be completed in the location shown on the attached site diagram. There are buried and overhead wires in this location. Meridian will contact Diggers to locate the buried wires.
- The soils at the site are typically silty sand overlying coarse sand.
- Ground water is found about 10 feet below grade (varies seasonally).
- 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 sand fill, compacted, and topped with a crushed gravel finish.

<u>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 and/or DNR personnel.

Work Tasks:

Clean soil will be set to the side and used for backfill. Meridian will determine what constitutes "clean soil".

The contaminated soil will be excavated from depths up to 15 feet.

No one will be allowed inside the excavation.

The excavation will be backfilled with material similar to the existing soils. The excavation will be compacted using the backhoe bucket.

The excavation will be topped with 6 inches of crushed gravel (road base). The surface will be graded.

Excavation Bid Specifications W125 County Road Z, Dover Township, Buffalo County

Page 3

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 solely 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 contact Diggers to clear public and private utilities.

Permits

Contractor is responsible for obtaining any permits required by State and local agencies.

Meridian will obtain permit from Buffalo County Highway Department.

Landfill

The soil will be disposed at the Eau Claire landfill (Advanced). Meridian will arrange for disposal at landfill and will pay landfill disposal fee.

Schedule

We would like to complete excavation this summer of 2018.

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.

Insurance/Contract

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

BID FORM: Soil Excavation

W125 County Road Z (Corner of Hwy Z and BB)
Buffalo County (Dover Township)
Mondovi, Wisconsin
Meridian No. 05F823

Scope of Work:

Excavate/replace up to 500 tons of petroleum impacted soil. Transport impacted soil to landfil (Eau Claire).

Actual tonnage will be determined during excavation and may be less than 500 tons

Task	Units	#Units*	Cost/Unit	Cost
Mob/demob to site	Job	1		
Excavate/Replace Contaminated Soil per Bid Specs and as directed by Meridian	tons	500		
Transport to Eau Claire Landfill (Advanced)	tons	500		
	1			
			Total:	

^{*}Actual Tonnage will be determined during the excavation. Actual tonnage may be less than 500 tons. Contractor Invoice will comply with Bid Amounts on a Per Ton basis (tonnage determined by landfill scale)

Name:	
Signature:	Date:
Company:	
Telephone:	



Meridian Environmental Consulting, LLC

