

## Excellence through experience™

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February 7, 2018

Erin Niemisto Wisconsin Department of Natural Resources 3911 Fish Hatchery Road Fitchburg, WI 53711

Subject: River Bends Bar – Bid Deferment/Variance Request for excavation/disposal project, additional groundwater monitoring, and vapor assessment. BRRTS #: 03-23-198810, PECFA #: 53502-9519-98-A

Dear Ms. Niemisto,

At the request of the WDNR, a bid deferment/variance request (using Usual & Customary schedule of charges) is being submitted for site remediation, continued groundwater monitoring, and vapor assessment at the subject property located at N7298 County Highway X in Attica (Town of Brooklyn), Wisconsin. The cost estimate will include: [1] excavation and disposal of approximately 250 tons (see attached site layout map) of petroleum impacted soil, with up to 11 confirmation soil samples for PVOC and Naphthalene analysis, [2] abandonment of monitoring well MW-1, [3] drilling project to reinstall monitoring well MW-1, [4] surveying, [5] four rounds of post-excavation groundwater monitoring from all site monitoring wells (5) and two private wells for PVOC, Naphthalene, and Dissolved Lead analysis, [6] waste disposal (from drilling project), [7] install and sample 3 sub slab vapor sampling points from the on-site building, [8] Letter Report following Round 1, and [9] Groundwater Monitoring Report following Round 4. The cost estimate is as follows:

Soil Excavation/Disposal Project (commodity)		\$20,001.00 (variance)
Soil Excavation/Disposal Project (consulting)		\$ 1,530.00 (variance)
Soil Excavation/Disposal Mob/Demob (consulting	ng)	\$ 831.92
Well Abandonment (MW-1)		\$ 51.14
Drilling Project (replace MW-1)		\$ 2,530.45
Surveying		\$ 110.15
Groundwater monitoring (4 quarterly events)		\$ 5,276.04
Laboratory Analysis		\$ 1,750.36
Waste Disposal (from drilling project)		\$ 683.24
Sub Slab Vapor Sampling (including analysis)		\$ 2,215.00 (variance)
Reports (2)		\$ 1,863.02
Change Order Request		<u>\$ 381.78</u>
-	Total	\$37,224.10

METCO is requesting a bid deferment/variance in the amount of <u>\$37,224.10</u> to complete the above workscope. Upon state and client approval of the proposed workscope and budget, METCO will proceed with the project.

Attached are a map with proposed excavation area, excavation/disposal cost estimate (commodity), sub slab vapor sampling project cost estimate, and draft standardized invoice form for the above workscope as required. For further information regarding the site history and collected data, please see the *Site Investigation Report* dated 10/31/17 (METCO).

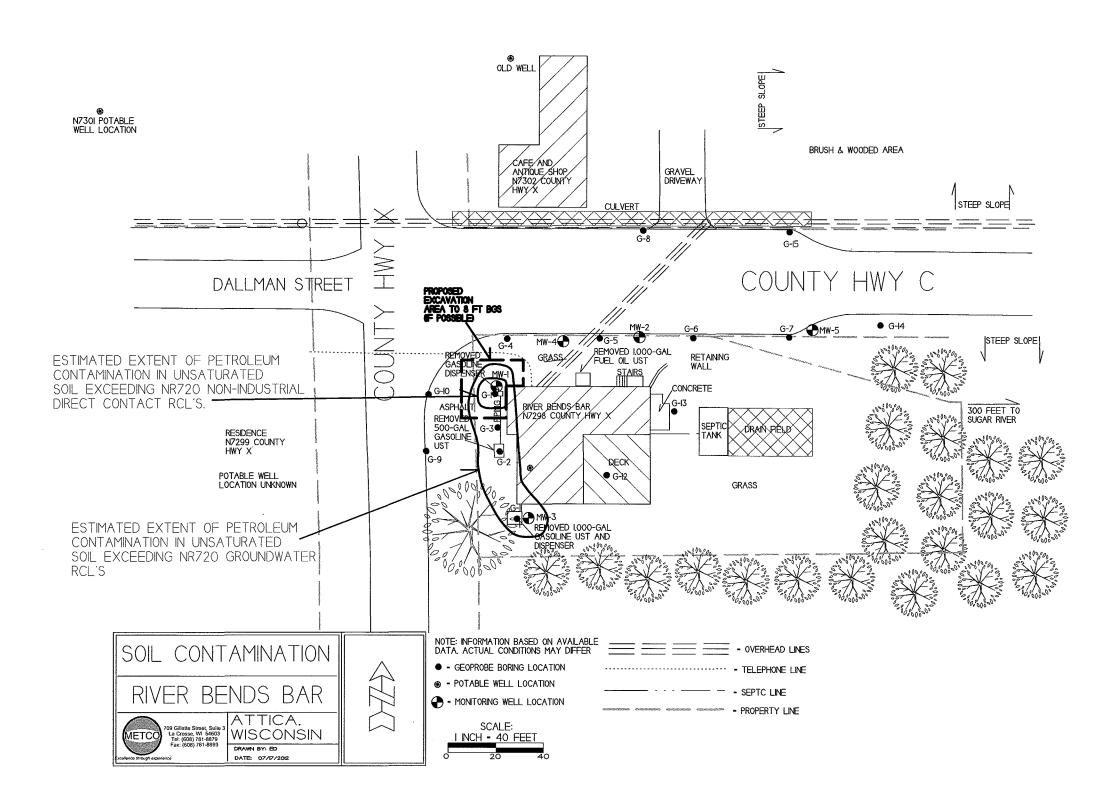
Should you have any questions, comments, or recommendations please contact me at our La Crosse office (608) 781-8879 or email at jasonp@metcohq.com.

Ze T. Powell Sincerely,

Jason T. Powell Staff Scientist

Attachments

c: Tina Klitzke – Client



⊗® NEW WELL

River Bends Rai - Attica, WI 250 now Mobiliantise 2200 -1 2200-Exegure 250 5-1250-18-Maul 250 4500-30. 501 Pistoral 250 7500-Fil 206 14 Z884 Black ( 792-18 44 875 BrackII a Comprehi 250 3.50 27,001-DKS 2520 Wils- 51 MENDING WE SHIST MA 2-6-18

## Sub-Slab Vapor Sampling Cost Estimate (Subcontracted) Including TO-15 Analysis (PVOC+Naphthalene)

Braun Intertec

SCS Engineers

\$1,963.40

\$1,875.00

METCO Project Management Costs for Sub-Slab Vapor Sampling (scheduling, preparation, coordination, and data reduction/analysis of vapor results): 4 hours @ \$85/hour = \$340

Commodity \$1,875.00 Consulting <u>\$ 340.00</u> Total \$2,215.00

Environmental Consulting, Fuel System Design, Installation and Service Page 3

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



	53502-9519-98-A 03-23-198810 River Bends Bar N7298 CTH X, Attica (Town of Brooklyn), WI		dor Name Invoice #: oice Date: Check #		- - -		Variance to I	U&C Total \$ U&C Total \$ rand Total \$	23,746.00
TASK	TASK DESCRIPTION	SERVICES	ACTIVITY CODE	ACTIVITY REFERENCE CODE DESCRIPTION	UNIT	Ņ	AAX UNIT COST	JNITS	TOTAL MAX
1	GW Sampling		GS05	Sample Collection	Well	\$	72.45	28 \$	2,028.60
1	GW Sampling		GS15	Incremental Sample Collection (cadmium & lead)	Well	\$	26.25	28 \$	735.00
1	GW Sampling		GS25	Primary Mob/Demob	Site	\$	628.11	4 \$	2,512.44
2	O & M Reporting		OMR05	Annual GW Monitoring (Form 4400-194)	Report	\$	823.73	1 \$	823.73
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	1 \$	42.11
4	Waste Disposal	Commodity	WD15	Drill Cuttings	Drum	\$	108.15	2\$	216.30
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	WAB10	Water column < 30 ft	Ft	\$	2.52	16 \$	40.32
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	1 \$	110.15
13.b	Drilling In Unconsolidated Soils - Without Soil And/Or GW Sampling	Consultant	DR25	Consultant Oversight	Ft	\$	1.58	16 \$	25.28
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	16 \$	191.52
14	Monitoring Well Installation	Consultant	MWI05	0 - 25 ft bgs	Ft	\$	3.89	16 \$	62.24
14	Monitoring Well Installation	Commodity	MWI15	2 inch PVC Casing	Ft	\$	16.70	16 \$	267.20
14	Monitoring Well Installation	Commodity	MWI20	Well Development	Well	\$	147.63	1 \$	147.63
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	1 \$	202.65
15	Misc. Drilling Activities & Supplies		MDT21	Drum, 55 gal. DOT steel	Each	\$	55.13	3\$	165.39
24	Limited Soil Excavation	Consultant	LSE10	Primary Mob/Demob	Site	\$	831.92	1 \$	831.92
33	Schedule Of Laboratory Maximums	Commodity		Laboratory (see task 33 total on Lab Schedule)	Lab Schedule			72 \$	1,750.36
36	Change Order Request		COR05	Change Order Request (cost cap exceedance requests)	Change Order	\$	381.78	1 \$	381.78
Variance Variance Variance		ncludes Proj. N	gmt., waste	g, disposal, backfill, and compaction for 250 tons disposal documents, prep, and fieldwork (18 hr @ \$85/hour)				\$ \$ \$	20,001.00 1,530.00 2,215.00

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





		TOTAL LAB CHARGES	\$ 1,750.3	6 T.	ASK 33	72 \$	1,750.36	TASK 24	0\$-
MATRIX	REF CODE		UNITS		AX COST	SAMPLES	TOTAL	MAX COST	
NICK TINDA	NEF CODE	REIMBURSABLE ANALYTE	UNITO	IVI	AX COST	SAIVIFLES	TOTAL	MAX COST	SAMPLES TOTAL
AIR	A1	Benzene	SAMPLE	\$	44.94	\$	-		
AIR	A2	BETX	SAMPLE	Ψ \$	49.46	\$	-		
AIR	A3	GRO	SAMPLE	\$	46.10	\$	-		
AIR	A4	VOC's	SAMPLE	\$	71.93	\$	-		
WATER	W1	GRO/PVOC	SAMPLE	\$	29.19	\$	-		
WATER	W2	PVOC	SAMPLE	\$	26.99	\$	-		
WATER	W3	PVOC + 1,2 DCA	SAMPLE	\$	43.79	\$	-		
WATER	W4	PVOC + Naphthalene	SAMPLE	\$	30.35	32 \$	971.20		
WATER	W5	VOC	SAMPLE	\$	71.93	\$	-		
WATER	W6	PAH	SAMPLE	\$	72.98	\$	-		
WATER WATER	W7 W8	Lead Cadmium	SAMPLE SAMPLE	\$	12.39 13.55	28 \$ \$	346.92		
WATER	W9	Hardness	SAMPLE	\$ \$	13.55	э \$	-		
WATER	W10	BOD, Total	SAMPLE	φ \$	23.63	\$ \$	-		
WATER	W11	Nitrate	SAMPLE	\$	11.24	\$	_		
WATER	W12	Total Kjeldahl	SAMPLE	φ \$	20.27	\$	-		
WATER	W13	Ammonia	SAMPLE	\$	16.91	\$	-		
WATER	W14	Sulfate	SAMPLE	\$	10.19	\$	-		
WATER	W15	Iron	SAMPLE	\$	10.19	\$	-		
WATER	W16	Manganese	SAMPLE	\$	10.19	\$	-		
WATER	W17	Alkalinity	SAMPLE	\$	10.19	\$	-		
WATER	W18	methane	SAMPLE	\$	46.10	\$	-		
WATER	W19	Phosphorous	SAMPLE	\$	18.06	\$	-		
WATER	W20	VOC Method 524.2	SAMPLE	\$	176.30	\$	-		- · · · · · · · · · · · · · · · ·
WATER	W21	EDB Method 504	SAMPLE	\$	95.45	\$	-		SAMPLES TOTAL
SOILS	S1	GRO	SAMPLE	\$	24.78	\$	-	\$ 24.78	\$-
SOILS SOILS	S2 S3	DRO GRO/PVOC	SAMPLE	\$ \$	30.35	\$ \$	-	\$ 30.35	\$ - r
SOILS	33 S4	PVOC	SAMPLE SAMPLE	ֆ \$	28.14 25.83	э \$	-	\$ 28.14 \$ 25.83	ф - с
SOILS	S5	PVOC + 1,2 DCA + Naphthalene	SAMPLE	φ \$	49.46	\$ \$		\$ 25.83 \$ 49.46	\$ - \$ -
SOILS	S6	PVOC + Naphthalene	SAMPLE	Ψ \$	36.02	12 \$	432.24	\$ 36.02	φ - \$ -
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	\$	-	TASK	24 TOTAL \$ -
SOILS	S12	Free Liquid	SAMPLE	\$	11.24	\$	-		
SOILS	S13	Flash Point	SAMPLE	\$	25.83	\$	-		
SOILS	S14	Grain Size - dry	SAMPLE	\$	42.74	\$	-		
SOILS	S15	Grain Size - wet	SAMPLE	\$	57.33	\$	-		
SOILS	S16	Bulk Density	SAMPLE	\$	13.55	\$	-		
SOILS SOILS	S17 S18	Permeability Nitrogen as Total Kjeldahl	SAMPLE SAMPLE	\$ \$	41.58 20.27	\$ \$	-		
SOILS	S10 S19	Nitrogen as Ammonia	SAMPLE		16.91	9 \$	-		
SOILS	S20	% Organic Matter	SAMPLE	ф \$	29.19	3 \$	-		
SOILS	S21	TOC as NPOC	SAMPLE	\$	57.33	\$	-		
SOILS	S22	Soil Moisture Content	SAMPLE	\$	6.83	\$	-		
SOILS	S23	Air Filled Porosity	SAMPLE	\$	25.83	\$	-		
SOILS	S24	% Total Solids	SAMPLE	\$	6.83	\$	-		
SOILS	S25	Field Capacity	SAMPLE	\$	28.14	\$	-		
SOILS	S26	TCLP Lead	SAMPLE	\$	83.16	\$	-		
SOILS	S27	Cation Exchange (Ca, MG, & K)	SAMPLE	\$	26.99	\$	-		
SOILS	S28	TCLP Cadmium	SAMPLE	\$	83.16	\$	-		
SOILS	S29	TCLP Benzene	SAMPLE	\$	83.16	\$	-		
		Viscosity + Density							
LNAPL	LFPS01	Interfacial tension I (LNAPL/water [dyne/cm]) Interfacial tension II (LNAPL/air [dyne/cm]) Interfacial tension III (water/air) [dyne/cm])	SAMPLE	\$	561.33	\$	-		
	TASK 33 TOTAL \$ 1,750.36								

TASK 33 TOTAL \$ 1,750.36