

Smith, Ralph N - DNR

From: Dave Larsen <dlarsen@reiengineering.com>
Sent: Tuesday, April 25, 2017 10:16 AM
To: Smith, Ralph N - DNR
Subject: Hedlund DX, Falun
Attachments: 7367 GP Proposal 4-17.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Ralph, proposed work is to complete the SI and sample the soil on the adjacent property where the Hedlund DX 1,000 gallon UST was located. Previously access was not approved and REI has now received access to investigate the neighboring property. Intent is to advance three (3) Geoprobe borings and sample soil (2 samples per boring) for PVOC/N and GRO sample for landfill purposes. A single groundwater sample will also be collected (PVOC/N) from each boring. REI will properly dispose of all investigative waste and prepare a letter report documenting the findings. This should be the final step before finalizing the dimensions of the proposed remedial action (soil excavation), which should be completed in 2017. Please let me know if you have any questions or concerns.

Thank you,
David N. Larsen P.G.
Hydrogeologist / Professional Geologist



David N. Larsen, P.G.
Hydrogeologist
Dlarsen@REIengineering.com

Tel: 877-734-7745
715-675-9784
Cell: 715-551-3434
Fax: 715-675-4060



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Usual and Customary Standardized Invoice #21

January 2017 - June 2017



RR-068A

PECFA #: 54810-9999-00
 BRRT's #: 03-07-000151
 Site Name: Hedlund DX
 Site Address: 10557 Hwy 70, Falun

Vendor Name: REI
 Invoice #:
 Invoice Date: 4/25/17 Proposal Date
 Check #:

U&C Total \$ 4,062.98
 Variance to U&C Total \$ -
 Grand Total \$ 4,062.98

TASK	TASK DESCRIPTION	SERVICES	ACTIVITY CODE	ACTIVITY REFERENCE CODE DESCRIPTION	UNIT	MAX UNIT COST	UNITS	TOTAL MAX
4	Waste Disposal	Consultant	WD05	Consultant Coordination	Site	\$ 137.13	1	\$ 137.13
4	Waste Disposal	Commodity	WD15	Drill Cuttings	Drum	\$ 108.15	1	\$ 108.15
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
12	Direct Push	Consultant	DP05	0 - 24 ft bgs W/ Continuous Soil Sampling	Ft	\$ 5.36	15	\$ 80.40
12	Direct Push	Consultant	DP20	GW Sample Collection	Each	\$ 36.10	1	\$ 36.10
12	Direct Push	Consultant	DP30	Primary Mob/Demob	Site	\$ 512.10	1	\$ 512.10
12	Direct Push	Commodity	DP35	0 - 24 ft bgs W/ Continuous Soil Sampling	Ft	\$ 6.93	15	\$ 103.95
12	Direct Push	Commodity	DP50	GW Sample Collection (cost for tubing)	Ft	\$ 0.42	20	\$ 8.40
12	Direct Push	Commodity	DP70	GW Sample Collection	Each	\$ 39.27	1	\$ 39.27
12	Direct Push	Commodity	DP80	Mob/Demob (Includes decon)	Site	\$ 526.05	1	\$ 526.05
15	Misc. Drilling Activities & Supplies		MDT21	Drum, 55 gal. DOT steel	Each	\$ 55.13	1	\$ 55.13
21	Access Agreements		AA05	Access Agreements	Property	\$ 401.94	1	\$ 401.94
33	Schedule Of Laboratory Maximums	Commodity		Laboratory (see task 33 total on Lab Schedule)	Lab Schedule		1	\$ 345.59
36	Change Order Request		COR05	Change Order Request (cost cap exceedance requests)	Change Order	\$ 381.78	1	\$ 381.78

Usual and Customary Standardized Invoice #21

January 2017 - June 2017



RR-068A

TOTAL LAB CHARGES \$	345.59	TASK 33	14	\$	345.59	TASK 24	0 \$	-
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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	PVOC	SAMPLE	\$ 26.99		\$ -			
WATER	W3	PVOC + 1,2 DCA	SAMPLE	\$ 43.79		\$ -			
WATER	W4	PVOC + Naphthalene	SAMPLE	\$ 30.35	1	\$ 30.35			
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	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		\$ -			
SOILS	S1	GRO	SAMPLE	\$ 24.78	1	\$ 24.78	\$ 24.78		\$ -
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	6	\$ 216.12	\$ 36.02		\$ -
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	6	\$ 74.34	\$ 12.39		\$ -
SOILS	S11	Cadmium	SAMPLE	\$ 14.60		\$ -			
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		\$ -			
							TASK 24 TOTAL		
							\$ -		

MATRIX	REF CODE	REIMBURSABLE ANALYTE	UNITS	MAX COST	SAMPLES	TOTAL	MAX COST	SAMPLES	TOTAL
SOILS	S17	Permeability	SAMPLE	\$	41.58	\$	-		
SOILS	S18	Nitrogen as Total Kjeldahl	SAMPLE	\$	20.27	\$	-		
SOILS	S19	Nitrogen as Ammonia	SAMPLE	\$	16.91	\$	-		
SOILS	S20	% Organic Matter	SAMPLE	\$	29.19	\$	-		
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])	SAMPLE	\$	561.33	\$	-		
		Interfacial tension II (LNAPL/air [dyne/cm])							
		Interfacial tension III (water/air) [dyne/cm])							
TASK 33 TOTAL						\$	345.59		