

January 18, 2019

Reference No. 086165-05-07

Mr. Phil Richard Wisconsin Department of Natural Resources 875 S 4th Avenue Park Falls, Wisconsin 54552

Dear Phil:

Re: Monthly Status Update – December 2018
Penta Wood Products Superfund Site
Siren, Wisconsin
WDNR BRRTS Activity #02-07-000532

GHD Services Inc. (GHD) has prepared this monthly status update for the period of December 2018 for the Penta Wood Products Superfund Site (Site). The project budget and costs are summarized in the following Tables 1 through 5. All problems, resolutions, and/or recommended solutions with an assessment of data collected during this period will be provided in the next Semiannual Report – July through December 2018. The following is a brief summary of the work completed.

Phase 02-Tasks 01 through 23

No costs were billed to these tasks in the current invoice.

Phase 03-Tasks 01 through 17

No costs were billed to these tasks in the current invoice.

Phase 04-Tasks 01 through 11

No costs were billed to these tasks in the current invoice.

Phase 05-Task 01 Site safety plan preparation

No costs were billed to this task in the current invoice.

Phase 05-Task 02 Housekeeping and grounds keeping

 Potential snowplowing for the January 2019 groundwater/LNAPL level monitoring event was coordinated. GHD subcontractor health and safety information was reviewed to renew contracts for 2019.

Phase 05-Task 03 Quarterly groundwater/LNAPL level monitoring

The January 2019 quarterly groundwater/LNAPL level monitoring event was coordinated.

Phase 05-Task 04 Semiannual groundwater well sampling

The October 2018 semiannual groundwater well sampling data was evaluated.





Phase 05-Task 05 Semiannual residential well sampling

• The October 2018 semiannual residential well sample analytical data was evaluated.

Phase 05-Task 06 Semiannual reporting

Portions of the Semiannual Report – July through December 2018 were prepared.

Phase 05-Task 07 Monthly reporting

- Periodic project updates were provided to WDNR.
- The project budget was updated.
- The Monthly Status Report November 2018 was prepared and submitted on December 12, 2018.

Phase 05-Task 08 Tier II reporting (2017 wastes)

No costs were billed to this task in the current invoice.

Phase 05-Task 09 Regulatory communications

No costs were billed to this task in the current invoice.

Should you have questions, please do not hesitate to contact us.

Sincerely,

GHD

Tim Ree

TR/sb/65

Encl.

cc: Stephanie Linebaugh, USEPA (via email)

Judy Fassbender, WDNR Madison (via email)

Chris Saari, WDNR Ashland (via email)

Adrian Herrera, WDNR Madison (via email)

086165Richard-65-Mthly Status Update 2

Budget Summary Penta Wood Products Superfund Site Siren, Wisconsin

GHD Project Number 086165

Original Scope of Work and Purchase Order

Phase	Description	Budget
02	Original Scope of Work (Table 2)	\$ 1,271,421.94
	Original Scope of Work Total	\$ 1,271,421.94

Project Costs

Current Invoice Cost (through 12/29/2018)		Previous oiced Cost	Total voiced Cost (through 2/29/2018)	Budget Remaining (through 12/29/2018)				
\$	-	\$ 180,027.59	\$ 180,027.59	\$ 1,091,394.35				
\$		\$ 180,027.59	\$ 180,027.59	\$ 1,091,394.35				

Revised Scope of Work

Phase	Description	Budget
03	2015-2016 Revised Scope of Work (Table 3)	\$ 786,897.18
04	2017 Revised Scope of Work (Table 4)	\$ 188,770.15
05	2018 Revised Scope of Work (Table 5)	\$ 183,434.25
	Revised Scope of Work Total	\$ 1,159,101.58

Project Costs

Inv	Current roice Cost through 1/29/2018)	In	Previous voiced Cost	 Total voiced Cost (through 12/29/2018)	Budget Remaining (through 12/29/2018)				
\$	-	\$	759,555.68	\$ 759,555.68	\$	27,341.50			
\$	-	\$	160,896.05	\$ 160,896.05	\$	27,874.10			
\$	4,452.62	\$	156,573.17	\$ 161,025.79	\$	22,408.46			
\$	4,452.62	\$	1,077,024.90	\$ 1,081,477.52	\$	77,624.06			

Overall Budget Status 1

Overan Budget Otatus	
Original Budget	\$ 1,271,421.94
Total Invoiced Cost (through 12/29/2018)	\$ 1,261,505.11
Overall Budget Remaining (through 12/29/2018)	\$ 9,916.83
Contingency	\$ 64,000.00
Overall Budget Remaining with Contingency (through 12/29/2018)	\$ 73,916.83

Note:

The total revised scope of work budget is less that the original scope of work purchase order budget. For overall project budget tracking purposes, the combined costs for work completed under the original purchase order and the revised scope of work are compared against the original purchase order budget.

Original Scope of Work and Purchase Order Budget Summary **Penta Wood Products Superfund Site** Siren, Wisconsin

GHD Project Number 086165 Phase 02 - August 1, 2015 - July 31, 2017

Original Scope of Work and

Purchase Order Budget Project Costs Current Previous Total Budget Task Description Unit **Unit Cost** Budget Invoice Cost **Invoiced Cost Invoiced Cost** Remaining **Estimated** (through (through (through Quantity 12/29/2018) 12/29/2018) 12/29/2018) Routine O&M 2 319,744.46 \$ 639,488.92 \$ \$ 91,595.41 91,595.41 547,893.51 Labor hours/rate estimated material \$ equipment and rental costs and travel Labor hours/rate estimated material 2 18.128.00 Waste characterization 9.064.00 \$ \$ 18.128.00 equipment and rental costs and travel 2 91,200.36 \$ 182,400,72 \$ \$ 182,400.72 Waste disposal Costs plus markup Housekeeping and grounds keeping Labor hours/rate estimated material 2 17,889.60 \$ 35.779.20 \$ 2,742.13 \$ 2,742.13 \$ 33,037.07 equipment and rental costs and travel Monthly soil gas monitoring Each round 14 \$ 3,286.80 \$ 46,015.20 5,525.48 \$ 5,525.48 \$ 40,489.72 48 \$ 99.23 \$ 4.762.80 \$ \$ 756.00 \$ Treat syst inf (PCP) Each round 756.00 \$ 4.006.80 Treat syst eff (PCP) 104 \$ 226.73 \$ 23,579.40 \$ 19,882.69 Each round 3,696.71 \$ 3,696.71 \$ Treat syst eff (DRO, naphthalene) 24 3.175.20 \$ \$ 132.30 \$ \$ 504.00 \$ 504.00 \$ 2.671.20 Each round Treat syst eff (metals, chloride) Each round 8 \$ 194.70 \$ 1.557.60 \$ \$ 64.05 \$ 64.05 \$ 1,493.55 Treat syst eff (BTEX, phenol, dioxin) Each round 2 495.60 \$ 991.20 \$ 991.20 Semi-annual GW/LNAPL level \$ \$ \$ 746.25 \$ 746.25 \$ Each round 4 894.00 \$ 3.576.00 2.829.75 monitorina Annual GW well sampling 2 \$ 20,284.30 \$ 40,568.60 \$ 20,228.08 \$ 20,228.08 12 Each round 20,340.52 Semi-annual GW well sampling Each round 2 8.511.20 \$ 17.022.40 \$ \$ 17.022.40 \$ Semi-annual residential well sampling Each round 4 \$ 5.388.18 \$ 21.552.70 \$ 5.388.63 \$ 5.388.63 \$ 16.164.07

180,027.59 \$ 1,091,394.35

Table 2

Original Scope of Work and Purchase Order Budget Summary Penta Wood Products Superfund Site Siren, Wisconsin

Unit

Each

Each

Pre-approved and determined by DNR

Estimated cost not to exceed

Labor, material, and contractor costs

Labor, material, and contractor costs

GHD Project Number 086165 Phase 02 - August 1, 2015 - July 31, 2017

Semi-annual reporting

Monthly status reporting

Site Safety Plan

Site QA/QC Plan

Well repairs

WPDES permit updates

Regulatory communications

Alternate remedy recommendation ¹

Heating/ventilation system repairs

Task Description

15

19

Original Scope of Work and Purchase Order Budget

8,282.00 \$

3,523.83 \$

15,000.00 \$

1.942.00 \$

4,200.00 \$

27,750.00 \$

3.288.00 \$

20,752.00 \$

21.050.00 \$

Budget

33,128.00

84.572.00

30,000.00

3,884.00

8,400.00

27,750.00

3.288.00

20,752.00

21.050.00

\$

\$ 1,271,421.94

Unit Cost

Estimated

Quantity

4

24

2

2

2

1

1

1

\$

\$

\$

\$

\$

\$

\$

\$

Purchase Order Budget

Total

Project Costs Current Previous Total Budget **Invoice Cost Invoiced Cost Invoiced Cost** Remaining (through (through (through 12/29/2018) 12/29/2018) 12/29/2018) \$ \$ 1,236.00 \$ 1,236.00 31,892.00 \$ \$ \$ 12.787.33 \$ 12.787.33 71.784.67 \$ \$ \$ 30,000.00 \$ \$ 275.50 \$ 275.50 \$ 3,608.50 \$ \$ \$ \$ 8,400.00 \$ 30,695.89 \$ 30,695.89 \$ (2.945.89)\$ \$ \$ \$ 3,288.00 \$ \$ 1,787.50 \$ 1,787.50 18,964.50 \$ \$ 1,998.63 \$ 1,998.63 19,051.37

180.027.59 \$

Notes:

WDNR approved an increase of \$3,000.00 to the Task 20 unit price due to additional work associated with evaluating existing monitoring well network, proposing additional well locations, confirming field locations; developing a microcosm and bio-trap study work plan; assessing microbial biological tools (MBTs) and environmental molecular diagnostics (EMDs).

2015-2016 Revised Scope of Work and Budget Summary Penta Wood Products Superfund Site Siren, Wisconsin

GHD Project Number 086165 Phase 03 - November 1, 2015 - December 31, 2016

2015-2016 Revised Scope of Work

and Budget **Project Costs**

Task	escription Unit		Estimated Quantity	Unit Cost	Budget	Current Invoice Cost (through 12/29/2018)	Previous Invoiced Cost	Total Invoiced Cost (through 12/29/2018)	Budget Remaining (through 12/29/2018)
01	Well repairs	Lump sum	1	\$ 20,663.30	\$ 20,663.30	\$ -	\$ 20,663.30	\$ 20,663.30	\$ -
02	Drilling and well installation	Lump sum	1	\$ 63,369.90	\$ 63,369.90	\$ -	\$ 60,825.82	\$ 60,825.82	\$ 2,544.08
03	System decommissioning	Lump sum	1	\$ 82,778.80	\$ 82,778.80	\$ -	\$ 82,730.39	\$ 82,730.39	\$ 48.41
04	Site safety plan	Plan	1	\$ 3,372.50	\$ 3,372.50	\$ -	\$ 3,322.28	\$ 3,322.28	\$ 50.22
05	Site QA/QC plan	Plan	1	\$ 6,829.50	\$ 6,829.50	\$ -	\$ 4,958.97	\$ 4,958.97	\$ 1,870.53
06	Waste characterization	Lump sum	1	\$ 20,810.00	\$ 20,810.00	\$ -	\$ 17,752.46	\$ 17,752.46	\$ 3,057.54
07	Waste disposal	Lump sum	1	\$ 173,149.00	\$ 173,149.00	\$ -	\$ 172,925.73	\$ 172,925.73	\$ 223.27
08	Housekeeping and grounds keeping	Lump sum	1	\$ 16,545.30	\$ 16,545.30	\$ -	\$ 15,132.83	\$ 15,132.83	\$ 1,412.47
09	Quarterly fluid level monitoring	Event	4	\$ 3,471.65	\$ 13,886.60	\$ -	\$ 13,730.30	\$ 13,730.30	\$ 156.30

2015-2016 Revised Scope of Work and Budget Summary Penta Wood Products Superfund Site Siren, Wisconsin

GHD Project Number 086165 Phase 03 - November 1, 2015 - December 31, 2016

2015-2016 Revised Scope of Work

and Budget **Project Costs Estimated** Current **Previous** Total Budget Remaining Task Description Unit Quantity **Unit Cost Budget Invoice Cost Invoiced Cost** Invoiced Cost (through (through (through 12/29/2018) 12/29/2018) 12/29/2018) 10 Baseline groundwater sampling Event 1 74,916.75 \$ 74,916.75 74,432.36 \$ 74,432.36 \$ 484.39 78,834.84 \$ Quarterly monitoring well sampling 3 26,278.28 78,834.84 \$ \$ 78.834.84 \$ 11 Event 2 \$ Semiannual residential well sampling Event 4,194.89 8,389.78 \$ 8,374.91 \$ 8,374.91 \$ 14.87 4 8,339.00 \$ 33,356.00 \$ 33,293.12 \$ 33,293.12 \$ 62.88 Quarterly reporting Report 14 2,792.65 \$ 39,097.10 \$ \$ 38,060.73 \$ 38,060.73 \$ 1,036.37 Monthly reporting Report Pre-approved and 15,000.00 \$ 15,000.00 \$ \$ 4,418.94 \$ 10,581.06 Regulatory communications 1 4,418.94 \$ determined by DNR \$ Microcosm and bio-trap study Lump sum 1 45,793.40 \$ 45,793.40 45,656.95 \$ 45,656.95 \$ 136.45 Shallow soil and sediment Pre-approved and 1 55,119.50 \$ 55,119.50 55,119.50 \$ 55,119.50 17 investigation determined by DNR 2015-2016 Budget Subtotal \$ 751,912.27 \$ 730,233.43 730,233.43 \$ 21,678.84

Project Costs

Table 3

2015-2016 Revised Scope of Work and Budget Summary Penta Wood Products Superfund Site Siren, Wisconsin

GHD Project Number 086165 Phase 03 - November 1, 2015 - December 31, 2016

2015-2016 Revised Scope of Work

		and Budget											Project Costs									
Task	Description	Unit	Estimated Quantity	Unit Cost		Budget		Current Invoice Cos (through 12/29/2018			Previous oiced Cost	Total Invoiced Cost (through 12/29/2018)		R (Budget emaining through 2/29/2018)							
WDNR	Approved Additional Costs																					
11	Quarterly monitoring well sampling ¹	Event	3	\$ 2,813.37	\$	8,440.11		\$	-	\$	8,440.11	\$	8,440.11	\$	-							
01	Well repairs ²	Lump sum	1	\$ 8,184.00	\$	8,184.00	-	\$	-	\$	3,850.70	\$	3,850.70	\$	4,333.30							
11	Quarterly monitoring well sampling ³	Event	1	\$ 2,260.38	\$	2,260.38	-	\$	-	\$	950.72	\$	950.72	\$	1,309.66							
17	Shallow soil and sediment investigation ⁴	Lump sum	1	\$ 16,100.42	\$	16,100.42	_	\$	-	\$	16,080.72	\$	16,080.72	\$	19.70							
				16 Approved Costs Subtotal	\$	34,984.91		\$	•	\$	29,322.25	\$	29,322.25	\$	5,662.66							
				15-2016 get Total	\$	786,897.18		\$	-	\$	759,555.68	\$	759,555.68	\$	27,341.50							

Notes:

- WDNR approved an increase of \$8,440.11 (\$2,813.37 per event unit cost) to the Task 11 budget due to additional work associated with collection and laboratory analysis of three additional groundwater monitoring well samples (MW23, MW25, and EW13S) during three quarterly events.
- WDNR approved an increase of \$8,184.00 to the Task 01 budget due to additional well repair work.
- 3 WDNR approved an increase of \$2,260.38 to the Task 11 budget due to sampling at wells MW4 and MW14 during one quarterly event.
- 4 WDNR approved an increase of \$16,100.42 to the Task 17 budget to complete the shallow soil and sediment investigation.

2017 Revised Scope of Work and Budget Summary Penta Wood Products Superfund Site Siren, Wisconsin

GHD Project Number 086165 Phase 04 - January 1, 2017 - December 31, 2017

2017 Revised Scope of Work

and Budget

Project Costs

				aı	na Buaget						Project				
			Estimated						Current		Previous		Total		Budget
Task	Description	Unit	Quantity	Un	nit Cost		Budget		Invoice Cost	Inv	oiced Cost	Inv	oiced Cost	R	emaining
	·		_						(through				(through		(through
									12/29/2018)				2/29/2018)		2/29/2018)
01	Site safety plan	Plan	1	\$	1,310.50	\$	1,310.50		\$ -	\$	1,303.56	\$	1,303.56		6.94
01	one salety plan	Fiaii	'	Ψ	1,310.30	Ψ	1,310.30		φ <u>-</u>	Ψ	1,303.30	Ψ	1,303.30	Ψ	0.94
	014 04/00 14	Di .	4	•	0.000.00	Φ.	0.000.00		•	Φ.		Φ.		Φ.	0.000.00
02	Site QA/QC plan	Plan	1	\$	2,098.00	\$	2,098.00		\$ -	\$	-	\$	-	\$	2,098.00
03	Housekeeping and grounds keeping	Lump sum	1	\$	15,381.60	\$	15,381.60		\$ -	\$	9,818.21	\$	9,818.21	\$	5,563.39
03	Tiousekeeping and grounds keeping	Lump sum	'	Ψ	13,361.00	Ψ	13,361.00		φ -	Ψ	9,010.21	Ψ	9,010.21	Ψ	3,303.39
04	Quarterly fluid level monitoring	Event	4	\$	3,471.60	\$	13,886.40		\$ -	\$	8,992.02	\$	8,992.02	\$	4,894.38
	according to the second			Ť	,	,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		•	*	5,55=55=	•	2,22_13_	•	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
05	Semiannual monitoring well sampling	Event	2	\$	26,278.28	\$	52,556.56		\$ -	\$	52,556.56	\$	52,556.56	\$	-
06	Semiannual residential well sampling	Event	2	\$	4,194.89	\$	8,389.78		\$ -	\$	8,346.51	\$	8,346.51	\$	43.27
07	Semiannual reporting	Report	2	\$	6,201.00	\$	12,402.00		\$ -	\$	12,187.23	\$	12,187.23	\$	214.77
					·		·								
08	Monthly reporting	Report	12	\$	1,594.00	\$	19,128.00		\$ -	\$	18,439.83	\$	18,439.83	\$	688.17
09	Regulatory communications	Pre-approved and	1	\$	15,000.00	\$	15,000.00		\$ -	\$	9,098.16	\$	9,098.16	\$	5,901.84
		determined by DNR													
												_		_	
			2017 Bud	dget S	ubtotal	\$	140,152.84		\$ -	\$	120,742.08	\$	120,742.08	\$	19,410.76
								ı L							

2017 Revised Scope of Work and Budget Summary Penta Wood Products Superfund Site Siren, Wisconsin

GHD Project Number 086165
Phase 04 - January 1, 2017 - December 31, 2017

2017 Revised Scope of Work

				and Budget					Project	t Co	sts		
Task	Description	Unit	Estimated Quantity	Unit Cost	Budget	Invo (th	urrent ice Cost rough 9/2018)	1	Previous voiced Cost		Total voiced Cost (through 12/29/2018)	Re (Budget emaining through t/29/2018)
WDNR	Approved Additional Costs												
05	Semiannual monitoring well sampling ¹	Event	2	\$ 8,782.42	\$ 17,564.83	\$	-	\$	9,913.39	\$	9,913.39	\$	7,651.44
10	Shallow soil and sediment investigation data evaluation ²	Lump sum	1	\$ 11,089.20	\$ 11,089.20	\$	-	\$	11,053.13	\$	11,053.13	\$	36.07
11	Soil sampling under surface debris ³	Lump sum	1	\$ 19,963.28	\$ 19,963.28	\$	-	\$	19,187.45	\$	19,187.45	\$	775.83
				oved Additional Subtotal	\$ 48,617.31	\$	-	\$	40,153.97	\$	40,153.97	\$	8,463.34
				2017 get Total	\$ 188,770.15	\$	-	\$	160,896.05	\$	160,896.05	\$	27,874.10

Notes:

- 1 WDNR approved an increase of \$17,564.83 (\$8,782.42 per event unit cost) to the Task 5 budget due to additional groundwater sampling at wells (MW4, MW14, MW23, MW25, and EW13S) during two semiannual events.
- WDNR approved an increase of \$11,089.20 to a new Task 10 budget due to a shallow soil and sediment data evaluation.
- WDNR approved an increase of \$19,963.28 to a new Task 11 budget due to soil sampling under surface debris.

2018 Revised Scope of Work and Budget Summary Penta Wood Products Superfund Site Siren, Wisconsin

GHD Project Number 086165 Phase 05 - January 1, 2018 - December 31, 2018

2018 Revised Scope of Work

					and Budget										
Task	Description	Unit	Estimated Quantity	ι	Unit Cost		Budget		Current Invoice Co (through 12/29/201		Previous Invoiced Cost		Total voiced Cost (through 2/29/2018)	R (Budget emaining (through 2/29/2018)
1	Site safety plan preparation	Plan	1	\$	1,421.50	\$	1,421.50	9	\$	-	\$	539.45	\$ 539.45	\$	882.05
2	House keeping and grounds keeping	Time and materials	1	\$	17,975.25	\$	17,975.25	\$		356.25	\$	13,232.38	\$ 13,588.63	\$	4,386.62
3	Quarterly groundwater/LNAPL level monitoring	Event	4	\$	3,846.50	\$	15,386.00	\$;	85.25	\$	10,608.44	\$ 10,693.69	\$	4,692.31
4	Semiannual groundwater well sampling	Event	2	\$	36,248.75	\$	72,497.50	\$	•	750.36	\$	65,983.91	\$ 66,734.27	\$	5,763.23
5	Semiannual residential well sampling	Event	2	\$	9,169.00	\$	18,338.00	\$		368.38	\$	12,068.39	\$ 12,436.77	\$	5,901.23
6	Semiannual reporting	Report	2	\$	7,653.00	\$	15,306.00	\$,	2,000.75	\$	13,217.62	\$ 15,218.37	\$	87.63
7	Monthly reporting	Report	12	\$	2,114.00	\$	25,368.00	\$	•	891.63	\$	24,449.74	\$ 25,341.37	\$	26.63
8	Tier II reporting (2017 wastes)	Report	1	\$	2,142.00	\$	2,142.00	9	\$	-	\$	1,893.23	\$ 1,893.23	\$	248.77
9	Regulatory communications	Pre-approved by WDNR	1	\$	15,000.00	\$	15,000.00	9	\$	-	\$	14,580.01	\$ 14,580.01	\$	419.99
			2 Budg	2018 get 1		\$	183,434.25	\$;	4,452.62	\$	156,573.17	\$ 161,025.79	\$	22,408.46