



June 16, 2017

Reference No. 086165-04-08

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

Dear Phil:

**Re: Monthly Status Update – May 2017
Penta Wood Products Superfund Site
Siren, Wisconsin**

GHD Services Inc. (GHD) has prepared this monthly status update for the period of May 2017 for the Penta Wood Products Superfund Site (Site). The project budget and costs are summarized in the following Tables 1 through 4. All problems, resolutions, and/or recommended solutions with an assessment of data collected during this period will be provided in the next Quarterly Report – April through June 2017. 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-Task 01 Well repairs

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

Phase 03-Task 02 Drilling and well installation

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

Phase 03-Task 03 System decommissioning

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

Phase 03-Task 04 Site safety plan

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

Phase 03-Task 05 Site QA/QC plan

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

Phase 03-Task 06 Waste characterization

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

Phase 03-Task 07 Waste disposal

- The current invoice includes expenses (vehicle mileage) related to overseeing the removal of sodium hydroxide and ferric sulfate from the Site in March and April 2017.



Phase 03-Task 08 Housekeeping and grounds keeping

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

Phase 03-Task 09 Quarterly groundwater/LNAPL level monitoring

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

Phase 03-Task 10 Baseline groundwater well sampling

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

Phase 03-Task 11 Quarterly groundwater well sampling

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

Phase 03-Task 12 Semiannual residential well sampling

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

Phase 03-Task 13 Quarterly reporting

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

Phase 03-Task 14 Monthly reporting

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

Phase 03-Task 15 Regulatory communications

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

Phase 03-Task 16 Microcosm and bio-trap study

- The final anaerobic microcosm testing was completed in May 2017.
- The current invoice includes laboratory costs (GHD) for analyzing the microcosm samples.

Phase 03-Task 17 Shallow soil and sediment investigation

- Laboratory analyses were coordinated and analytical data was evaluated related to soil/sediment sampling to determine existing pentachlorophenol and/or arsenic concentrations at selected areas and to confirm the horizontal and vertical extent of contamination associated with continuing obligations at the Site.
- The current invoice includes laboratory subcontractor costs (TestAmerica) for analyzing the soil samples.
- The current invoice includes subcontractor costs (Dakota Technologies) for drilling and soil sampling.

Phase 04-Task 01 Site safety plan

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



Phase 04-Task 02 Site QA/QC plan

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

Phase 04-Task 03 Housekeeping and grounds keeping

- Building maintenance and mowing were coordinated.
- The annual water supply well backflow preventer inspection was completed on April 24, 2017. The current invoice includes subcontractor costs (C3D Testing Company) for inspecting the backflow preventer.

Phase 04-Task 04 Quarterly fluid level monitoring

- The April 2017 quarterly fluid level monitoring data was evaluated.

Phase 04-Task 05 Semiannual monitoring well sampling

- The April 2017 semiannual monitoring well sampling data was evaluated.
- The current invoice includes laboratory subcontractor costs (TestAmerica) for analyzing the groundwater samples.

Phase 04-Task 06 Semiannual residential well sampling

- The April 2017 semiannual residential well sampling data was evaluated.
- The current invoice includes laboratory subcontractor costs (TestAmerica) for analyzing the residential well samples.

Phase 04-Task 07 Semiannual reporting

- Portions of the Quarterly Progress Report – April through June 2017 were prepared.

Phase 04-Task 08 Monthly reporting

- Periodic project updates were provided to WDNR.
- The project budget was updated.
- The Monthly Status Report – April 2017 was prepared and subsequently submitted on May 25, 2017.

Phase 04-Task 09 Regulatory communications

- The quarterly progress conference call between WDNR, USEPA, and GHD was held on May 22, 2017. The conference call minutes were prepared and issued on May 24, 2017.

Phase 04-Task 10 Shallow soil and sediment investigation data evaluation

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



Phase 04-Task 11 Soil sampling under surface debris

- Laboratory analyses were coordinated and analytical data was evaluated related to soil sampling under surface debris to assess the groundwater protection pathway due to the detected contaminant concentrations in the debris.
- The current invoice includes laboratory subcontractor costs (TestAmerica) for analyzing the soil samples.
- The current invoice includes subcontractor costs (Dakota Technologies) for drilling and soil sampling.

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

Sincerely,

GHD

A handwritten signature in blue ink, appearing to read "Tim Ree", with a stylized flourish at the end.

Tim Ree

TR/sb/44

Encl.

cc: Stephanie Linebaugh, USEPA (via email)
 Viral Patel, USEPA (via email)
 Judy Fassbender, WDNR Madison (via email)
 David Swimm, WDNR Madison (via email)
 John Robinson, WDNR Wausau (via email)
 Gary Edelstein, WDNR Madison (via email)
 Duane Klein, WDNR Madison (via email)
 Ron Frehner, GHD (via email)
 Brian Sandberg, GHD (via email)
 Pete Storlie, GHD (via email)

Table 1
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 5/28/2017)	Previous Invoiced Cost	Total Invoiced Cost (through 5/28/2017)	Budget Remaining (through 5/28/2017)
\$ -	\$ 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
Revised Scope of Work Total		\$ 975,667.33

Project Costs

Current Invoice Cost (through 5/28/2017)	Previous Invoiced Cost	Total Invoiced Cost (through 5/28/2017)	Budget Remaining (through 5/28/2017)
\$ 16,254.07	\$ 718,776.05	\$ 735,030.12	\$ 51,867.06
\$ 33,380.62	\$ 47,298.81	\$ 80,679.43	\$ 108,090.72
\$ 49,634.69	\$ 766,074.86	\$ 815,709.55	\$ 159,957.78

Overall Budget Status ¹

Original Budget	\$ 1,271,421.94
Total Invoiced Cost (through 5/28/2017)	\$ 995,737.14
Overall Budget Remaining (through 5/28/2017)	\$ 275,684.80

Note:

¹ The total revised scope of work budget is less than 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.

Table 2

**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

Task	Description	Unit	Original Scope of Work and Purchase Order Budget			Project Costs			
			Estimated Quantity	Unit Cost	Budget	Current Invoice Cost (through 5/28/2017)	Previous Invoiced Cost	Total Invoiced Cost (through 5/28/2017)	Budget Remaining (through 5/28/2017)
01	Routine O&M	Labor hours/rate estimated material equipment and rental costs and travel	2	\$ 319,744.46	\$ 639,488.92	\$ -	\$ 91,595.41	\$ 91,595.41	\$ 547,893.51
02	Waste characterization	Labor hours/rate estimated material equipment and rental costs and travel	2	\$ 9,064.00	\$ 18,128.00	\$ -	\$ -	\$ -	\$ 18,128.00
03	Waste disposal	Costs plus markup	2	\$ 91,200.36	\$ 182,400.72	\$ -	\$ -	\$ -	\$ 182,400.72
04	Housekeeping and grounds keeping	Labor hours/rate estimated material equipment and rental costs and travel	2	\$ 17,889.60	\$ 35,779.20	\$ -	\$ 2,742.13	\$ 2,742.13	\$ 33,037.07
05	Monthly soil gas monitoring	Each round	14	\$ 3,286.80	\$ 46,015.20	\$ -	\$ 5,525.48	\$ 5,525.48	\$ 40,489.72
06	Treat syst inf (PCP)	Each round	48	\$ 99.23	\$ 4,762.80	\$ -	\$ 756.00	\$ 756.00	\$ 4,006.80
07	Treat syst eff (PCP)	Each round	104	\$ 226.73	\$ 23,579.40	\$ -	\$ 3,696.71	\$ 3,696.71	\$ 19,882.69
08	Treat syst eff (DRO, naphthalene)	Each round	24	\$ 132.30	\$ 3,175.20	\$ -	\$ 504.00	\$ 504.00	\$ 2,671.20
09	Treat syst eff (metals, chloride)	Each round	8	\$ 194.70	\$ 1,557.60	\$ -	\$ 64.05	\$ 64.05	\$ 1,493.55
10	Treat syst eff (BTEX, phenol, dioxin)	Each round	2	\$ 495.60	\$ 991.20	\$ -	\$ -	\$ -	\$ 991.20
11	Semi-annual GW/LNAPL level monitoring	Each round	4	\$ 894.00	\$ 3,576.00	\$ -	\$ 746.25	\$ 746.25	\$ 2,829.75
12	Annual GW well sampling	Each round	2	\$ 20,284.30	\$ 40,568.60	\$ -	\$ 20,228.08	\$ 20,228.08	\$ 20,340.52

Table 2

**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**

Task	Description	Unit	Estimated Quantity	Unit Cost	Budget	Project Costs			
						Current Invoice Cost (through 5/28/2017)	Previous Invoiced Cost	Total Invoiced Cost (through 5/28/2017)	Budget Remaining (through 5/28/2017)
13	Semi-annual GW well sampling	Each round	2	\$ 8,511.20	\$ 17,022.40	\$ -	\$ -	\$ -	\$ 17,022.40
14	Semi-annual residential well sampling	Each round	4	\$ 5,388.18	\$ 21,552.70	\$ -	\$ 5,388.63	\$ 5,388.63	\$ 16,164.07
15	Semi-annual reporting	Each	4	\$ 8,282.00	\$ 33,128.00	\$ -	\$ 1,236.00	\$ 1,236.00	\$ 31,892.00
16	Monthly status reporting	Each	24	\$ 3,523.83	\$ 84,572.00	\$ -	\$ 12,787.33	\$ 12,787.33	\$ 71,784.67
17	Regulatory communications	Pre-approved and determined by DNR	2	\$ 15,000.00	\$ 30,000.00	\$ -	\$ -	\$ -	\$ 30,000.00
18	Site Safety Plan	Estimated cost not to exceed	2	\$ 1,942.00	\$ 3,884.00	\$ -	\$ 275.50	\$ 275.50	\$ 3,608.50
19	Site QA/QC Plan	Estimated cost not to exceed	2	\$ 4,200.00	\$ 8,400.00	\$ -	\$ -	\$ -	\$ 8,400.00
20	Alternate remedy recommendation ¹	Estimated cost not to exceed	1	\$ 27,750.00	\$ 27,750.00	\$ -	\$ 30,695.89	\$ 30,695.89	\$ (2,945.89)
21	WPDES permit updates	Estimated cost not to exceed	1	\$ 3,288.00	\$ 3,288.00	\$ -	\$ -	\$ -	\$ 3,288.00
22	Heating/ventilation system repairs	Labor, material, and contractor costs	1	\$ 20,752.00	\$ 20,752.00	\$ -	\$ 1,787.50	\$ 1,787.50	\$ 18,964.50
23	Well repairs	Labor, material, and contractor costs	1	\$ 21,050.00	\$ 21,050.00	\$ -	\$ 1,998.63	\$ 1,998.63	\$ 19,051.37
Purchase Order Budget Total					\$ 1,271,421.94	\$ -	\$ 180,027.59	\$ 180,027.59	\$ 1,091,394.35

Notes:

- ¹ 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).

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**

Task	Description	Unit	Estimated Quantity	Unit Cost	Budget	Project Costs			
						Current Invoice Cost (through 5/28/2017)	Previous Invoiced Cost	Total Invoiced Cost (through 5/28/2017)	Budget Remaining (through 5/28/2017)
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	\$ 111.28	\$ 156,439.92	\$ 156,551.20	\$ 16,597.80
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

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**

Task	Description	Unit	Estimated Quantity	Unit Cost	Budget
10	Baseline groundwater sampling	Event	1	\$ 74,916.75	\$ 74,916.75
11	Quarterly monitoring well sampling	Event	3	\$ 26,278.28	\$ 78,834.84
12	Semiannual residential well sampling	Event	2	\$ 4,194.89	\$ 8,389.78
13	Quarterly reporting	Report	4	\$ 8,339.00	\$ 33,356.00
14	Monthly reporting	Report	14	\$ 2,792.65	\$ 39,097.10
15	Regulatory communications	Pre-approved and determined by DNR	1	\$ 15,000.00	\$ 15,000.00
16	Microcosm and bio-trap study	Lump sum	1	\$ 45,793.40	\$ 45,793.40
17	Shallow soil and sediment investigation	Pre-approved and determined by DNR	1	\$ 55,119.50	\$ 55,119.50
2015-2016 Budget Subtotal					\$ 751,912.27

Project Costs

Current Invoice Cost (through 5/28/2017)	Previous Invoiced Cost	Total Invoiced Cost (through 5/28/2017)	Budget Remaining (through 5/28/2017)
	\$ 74,432.36	\$ 74,432.36	\$ 484.39
\$ -	\$ 78,834.84	\$ 78,834.84	\$ -
\$ -	\$ 8,374.91	\$ 8,374.91	\$ 14.87
\$ -	\$ 33,293.12	\$ 33,293.12	\$ 62.88
\$ -	\$ 38,060.73	\$ 38,060.73	\$ 1,036.37
\$ -	\$ 4,418.94	\$ 4,418.94	\$ 10,581.06
\$ 2,533.25	\$ 41,731.67	\$ 44,264.92	\$ 1,528.48
\$ 4,287.82	\$ 50,831.68	\$ 55,119.50	\$ -
\$ 6,932.35	\$ 705,534.52	\$ 712,466.87	\$ 39,445.40

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 Cost (through 5/28/2017)	Previous Invoiced Cost	Total Invoiced Cost (through 5/28/2017)	Budget Remaining (through 5/28/2017)	
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	\$ 9,321.72	\$ -	\$ 9,321.72	\$ 6,778.70	
					2015-2016 Approved Additional Costs Subtotal	\$ 34,984.91	\$ 9,321.72	\$ 13,241.53	\$ 22,563.25	\$ 12,421.66
					2015-2016 Budget Total	\$ 786,897.18	\$ 16,254.07	\$ 718,776.05	\$ 735,030.12	\$ 51,867.06

Notes:

- 1 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.
- 2 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.

Table 4

**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				
Task	Description	Unit	Estimated Quantity	Unit Cost	Budget	Current Invoice Cost (through 5/28/2017)	Previous Invoiced Cost	Total Invoiced Cost (through 5/28/2017)	Budget Remaining (through 5/28/2017)	
01	Site safety plan	Plan	1	\$ 1,310.50	\$ 1,310.50	\$ -	\$ 1,303.56	\$ 1,303.56	\$ 6.94	
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	\$ 1,786.00	\$ 1,058.69	\$ 2,844.69	\$ 12,536.91	
04	Quarterly fluid level monitoring	Event	4	\$ 3,471.60	\$ 13,886.40	\$ 858.42	\$ 2,493.25	\$ 3,351.67	\$ 10,534.73	
05	Semiannual monitoring well sampling	Event	2	\$ 26,278.28	\$ 52,556.56	\$ 17,537.98	\$ 15,501.78	\$ 33,039.76	\$ 19,516.80	
06	Semiannual residential well sampling	Event	2	\$ 4,194.89	\$ 8,389.78	\$ 2,399.00	\$ 2,457.13	\$ 4,856.13	\$ 3,533.65	
07	Semiannual reporting	Report	2	\$ 6,201.00	\$ 12,402.00	\$ 803.38	\$ 8,914.15	\$ 9,717.53	\$ 2,684.47	
08	Monthly reporting	Report	12	\$ 1,594.00	\$ 19,128.00	\$ 1,754.33	\$ 6,323.78	\$ 8,078.11	\$ 11,049.89	
09	Regulatory communications	Pre-approved and determined by DNR	1	\$ 15,000.00	\$ 15,000.00	\$ 1,116.38	\$ 6,763.78	\$ 7,880.16	\$ 7,119.84	
					2017 Budget Subtotal	\$ 140,152.84	\$ 26,255.49	\$ 44,816.12	\$ 71,071.61	\$ 69,081.23

Table 4

**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			
Task	Description	Unit	Estimated Quantity	Unit Cost	Budget	Current Invoice Cost (through 5/28/2017)	Previous Invoiced Cost	Total Invoiced Cost (through 5/28/2017)	Budget Remaining (through 5/28/2017)
WDNR Approved Additional Costs									
05	Semiannual monitoring well sampling ¹	Event	2	\$ 8,782.42	\$ 17,564.83	\$ -	\$ -	\$ -	\$ 17,564.83
10	Shallow soil and sediment investigation data evaluation ²	Lump sum	1	\$ 11,089.20	\$ 11,089.20	\$ -	\$ -	\$ -	\$ 11,089.20
11	Soil sampling under surface debris ³	Lump sum	1	\$ 19,963.28	\$ 19,963.28	\$ 7,125.13	\$ 2,482.69	\$ 9,607.82	\$ 10,355.46
2017 Approved Additional Costs Subtotal					\$ 48,617.31	\$ 7,125.13	\$ 2,482.69	\$ 9,607.82	\$ 39,009.49
2017 Budget Total					\$ 188,770.15	\$ 33,380.62	\$ 47,298.81	\$ 80,679.43	\$ 108,090.72

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.
- ² WDNR approved an increase of \$11,089.20 to a new Task 10 budget due to a shallow soil and sediment data evaluation.
- ³ WDNR approved an increase of \$19,963.28 to a new Task 11 budget due to soil sampling under surface debris.