



02-07-000532

November 9, 2016

Reference No. 086165-03-14

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

Dear Phil:

**Re: Monthly Status Update – September 2016
Penta Wood Products Superfund Site
Siren, Wisconsin**

GHD Services Inc. (GHD) has prepared this monthly status update for the period of September 2016 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 – July through September 2016. 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

- The health and safety plan was updated as required annually.

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

- Disposal facility requirements were assessed for disposing the stored water treatment chemicals at an offsite facility.



Phase 03-Task 07 *Waste disposal*

- GHD met with North Shore Environmental Construction at the Site on September 9, 2016 to inspect wood debris, saw dust, and an underground storage tank for developing a removal scope of work and associated cost estimate.

Phase 03-Task 08 *Housekeeping and grounds keeping*

- A subcontractor (Austin Lake Landscaping) was coordinated for mowing at the Site. Subcontractor oversight was performed and coordinated with other Site work when possible.
- The current invoice includes subcontractor costs for mowing completed on August 3 and 24, 2016.

Phase 03-Task 09 *Quarterly groundwater/LNAPL level monitoring*

- Quarterly groundwater and LNAPL level monitoring was coordinated for the October 2016 event.

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*

- Preparations were made for the October 2016 quarterly groundwater sampling event.

Phase 03-Task 12 *Semiannual residential well sampling*

- Semiannual residential well sampling was coordinated for the October 2016 event.

Phase 03-Task 13 *Quarterly reporting*

- Portions of the Quarterly Report – July through September 2016 were prepared.

Phase 03-Task 14 *Monthly reporting*

- The Monthly Status Report – August 2016 was prepared and subsequently submitted on October 4, 2016.

Phase 03-Task 15 *Regulatory communications*

- The July 2016 quarterly groundwater sampling results were provided to USEPA. GHD, WDNR, and USEPA held a conference call on September 29, 2016 to discuss the results and determine a corrective action due to pentachlorophenol concentrations detected in some outlying wells. Continued monitoring was determined to be an appropriate corrective action.



Phase 03-Task 16 *Microcosm and bio-trap study*

- Microcosm and bio-trap study results were evaluated.
- Bio-trap testing results were evaluated.

Phase 03-Task 17 *Shallow soil and sediment investigation*

- Previous surface soil/sediment sample locations were determined through a detailed review of survey data during the soil excavation work. A proposed soil/sediment sampling plan was developed to confirm existing contaminant concentrations and delineate the extent of contaminants to applicable criteria.

Phase 04-Tasks 01 through 09

- No costs will be billed to these tasks until 2017.

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

TB/sb/34

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

Purchase Order

Phase	Description	Purchase Order Budget
02	Purchase Order (Table 2)	\$ 1,271,421.94
Purchase Order Total		\$ 1,271,421.94

Project Costs

Current Invoice Cost (through 10/2/2016)	Previous Invoiced Cost	Total Invoiced Cost (through 10/2/2016)	Purchase Order Budget Remaining (through 10/2/2016)
\$ -	\$ 180,027.59	\$ 180,027.59	\$ 1,091,394.35
\$ -	\$ 180,027.59	\$ 180,027.59	\$ 1,091,394.35

Change Order

Phase	Description	Change Order Budget
03	2015-2016 Change Order (Table 3)	\$ 751,912.27
04	2017 Change Order (Table 4)	\$ 140,152.84
Change Order Total		\$ 892,065.11

Project Costs

Current Invoice Cost (through 10/2/2016)	Previous Invoiced Cost	Total Invoiced Cost (through 10/2/2016)	Change Order Budget Remaining (through 10/2/2016)
\$ 20,478.63	\$ 535,487.93	\$ 555,966.56	\$ 195,945.71
\$ -	\$ -	\$ -	\$ 140,152.84
\$ 20,478.63	\$ 535,487.93	\$ 555,966.56	\$ 336,098.55

Total Budget Status ¹	\$ 1,271,421.94
---	------------------------

\$ 20,478.63	\$ 715,515.52	\$ 735,994.15	\$ 535,427.79
---------------------	----------------------	----------------------	----------------------

Note:

- 1 The total change order budget is less than the original 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 completed under the change order are compared against the original purchase order budget.

Table 2

**Purchase Order Budget Summary
Penta Wood Products Superfund Site
Siren, Wisconsin**

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

Annual Tasks			Purchase Order Budget				Project Costs			
Task	Description	Unit	Estimated Annual Quantity	Unit Cost	Annual Budget	Purchase Order Budget (8/1/2015-7/31/2017)	Current Invoice Cost (through 10/2/2016)	Previous Invoiced Cost	Total Invoiced Cost (through 10/2/2016)	Purchase Order Budget Remaining (through 10/2/2016)
01	Routine O&M	Labor hours/rate estimated material equipment and rental costs and travel	1	\$ 319,744.46	\$ 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	1	\$ 9,064.00	\$ 9,064.00	\$ 18,128.00	\$ -	\$ -	\$ -	\$ 18,128.00
03	Waste disposal	Costs plus markup	1	\$ 91,200.36	\$ 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	1	\$ 17,889.60	\$ 17,889.60	\$ 35,779.20	\$ -	\$ 2,742.13	\$ 2,742.13	\$ 33,037.07
05	Monthly soil gas monitoring	Each round	7	\$ 3,286.80	\$ 23,007.60	\$ 46,015.20	\$ -	\$ 5,525.48	\$ 5,525.48	\$ 40,489.72
06	Treat syst inf (PCP)	Each round	24	\$ 99.23	\$ 2,381.40	\$ 4,762.80	\$ -	\$ 756.00	\$ 756.00	\$ 4,006.80
07	Treat syst eff (PCP)	Each round	52	\$ 226.73	\$ 11,789.70	\$ 23,579.40	\$ -	\$ 3,696.71	\$ 3,696.71	\$ 19,882.69
08	Treat syst eff (DRO, naphthalene)	Each round	12	\$ 132.30	\$ 1,587.60	\$ 3,175.20	\$ -	\$ 504.00	\$ 504.00	\$ 2,671.20
09	Treat syst eff (metals, chloride)	Each round	4	\$ 194.70	\$ 778.80	\$ 1,557.60	\$ -	\$ 64.05	\$ 64.05	\$ 1,493.55
10	Treat syst eff (BTEX, phenol, dioxin)	Each round	1	\$ 495.60	\$ 495.60	\$ 991.20	\$ -	\$ -	\$ -	\$ 991.20
11	Semi-annual GW/LNAPL level monitoring	Each round	2	\$ 894.00	\$ 1,788.00	\$ 3,576.00	\$ -	\$ 746.25	\$ 746.25	\$ 2,829.75

Table 2
Purchase Order Budget Summary
Penta Wood Products Superfund Site
Siren, Wisconsin

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

Annual Tasks			Purchase Order Budget				Project Costs			
Task	Description	Unit	Estimated Annual Quantity	Unit Cost	Annual Budget	Purchase Order Budget (8/1/2015-7/31/2017)	Current Invoice Cost (through 10/2/2016)	Previous Invoiced Cost	Total Invoiced Cost (through 10/2/2016)	Purchase Order Budget Remaining (through 10/2/2016)
12	Annual GW well sampling	Each round	1	\$ 20,284.30	\$ 20,284.30	\$ 40,568.60	\$ -	\$ 20,228.08	\$ 20,228.08	\$ 20,340.52
13	Semi-annual GW well sampling	Each round	1	\$ 8,511.20	\$ 8,511.20	\$ 17,022.40	\$ -	\$ -	\$ -	\$ 17,022.40
14	Semi-annual residential well sampling	Each round	2	\$ 5,388.18	\$ 10,776.35	\$ 21,552.70	\$ -	\$ 5,388.63	\$ 5,388.63	\$ 16,164.07
15	Semi-annual reporting	Each	2	\$ 8,282.00	\$ 16,564.00	\$ 33,128.00	\$ -	\$ 1,236.00	\$ 1,236.00	\$ 31,892.00
16	Monthly status reporting	Each	12	\$ 3,523.83	\$ 42,286.00	\$ 84,572.00	\$ -	\$ 12,787.33	\$ 12,787.33	\$ 71,784.67
17	Regulatory communications	Pre-approved and determined by DNR	1	\$ 15,000.00	\$ 15,000.00	\$ 30,000.00	\$ -	\$ -	\$ -	\$ 30,000.00
18	Site Safety Plan	Estimated cost not to exceed	1	\$ 1,942.00	\$ 1,942.00	\$ 3,884.00	\$ -	\$ 275.50	\$ 275.50	\$ 3,608.50
19	Site QA/QC Plan	Estimated cost not to exceed	1	\$ 4,200.00	\$ 4,200.00	\$ 8,400.00	\$ -	\$ -	\$ -	\$ 8,400.00
			Annual Tasks Subtotal		\$ 599,290.97	\$ 1,198,581.94	\$ -	\$ 145,545.57	\$ 145,545.57	\$ 1,053,036.37

Table 2
Purchase Order Budget Summary
Penta Wood Products Superfund Site
Siren, Wisconsin

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

Annual Tasks		Purchase Order Budget				Project Costs					
Task	Description	Unit	Estimated Annual Quantity	Unit Cost	Annual Budget	Purchase Order Budget (8/1/2015-7/31/2017)	Current Invoice Cost (through 10/2/2016)	Previous Invoiced Cost	Total Invoiced Cost (through 10/2/2016)	Purchase Order Budget Remaining (through 10/2/2016)	
Additional Tasks											
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	
						Additional Tasks Subtotal	\$ 72,840.00	\$ -	\$ 34,482.02	\$ 34,482.02	\$ 38,357.98
						Purchase Order Total	\$ 1,271,421.94	\$ -	\$ 180,027.59	\$ 180,027.59	\$ 1,091,394.35

Notes:

- 1 Task 20 unit price estimated to increase by \$3,000.00 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 (BMTs) and environmental molecular diagnostics (EMDs).

Table 3

**2015-2016 Change Order Budget Summary
Penta Wood Products Superfund Site
Siren, Wisconsin**

GHD Project Number 086165

Phase 03 - November 1, 2015 - December 31, 2016

Task	Description	Unit	Estimated Quantity	Unit Cost	Budget	Project Costs			Change Order Budget Remaining (through 10/2/2016)
						Current Invoice Cost (through 10/2/2016)	Previous Invoiced Cost	Total Invoiced Cost (through 10/2/2016)	
01	Well repairs	Lump sum	1	\$ 20,663.30	\$ 20,663.30	\$ -	\$ 20,584.70	\$ 20,584.70	\$ 78.60
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	\$ 647.50	\$ 2,280.28	\$ 2,927.78	\$ 444.72
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	\$ 2,665.80	\$ 5,254.10	\$ 7,919.90	\$ 12,890.10
07	Waste disposal	Lump sum	1	\$ 173,149.00	\$ 173,149.00	\$ 1,548.56	\$ 135,967.94	\$ 137,516.50	\$ 35,632.50
08	Housekeeping and grounds keeping	Lump sum	1	\$ 16,545.30	\$ 16,545.30	\$ 1,650.61	\$ 12,025.33	\$ 13,675.94	\$ 2,869.36
09	Quarterly fluid level monitoring	Event	4	\$ 3,471.65	\$ 13,886.60	\$ 81.25	\$ 3,034.31	\$ 3,115.56	\$ 10,771.04

Table 3

**2015-2016 Change Order Budget Summary
Penta Wood Products Superfund Site
Siren, Wisconsin**

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

Task	Description	Unit	Estimated Quantity	Unit Cost	Budget	Project Costs			Change Order Budget Remaining (through 10/2/2016)	
						Current Invoice Cost (through 10/2/2016)	Previous Invoiced Cost	Total Invoiced Cost (through 10/2/2016)		
10	Baseline groundwater sampling	Event	1	\$ 74,916.75	\$ 74,916.75		\$ 74,432.36	\$ 74,432.36	\$ 484.39	
11	Quarterly monitoring well sampling ¹	Event	3	\$ 26,278.28	\$ 78,834.84	\$ 2,209.86	\$ 27,599.69	\$ 29,809.55	\$ 49,025.29	
12	Semiannual residential well sampling	Event	2	\$ 4,194.89	\$ 8,389.78	\$ 81.25	\$ 5,383.66	\$ 5,464.91	\$ 2,924.87	
13	Quarterly reporting	Report	4	\$ 8,339.00	\$ 33,356.00	\$ 1,314.75	\$ 23,735.77	\$ 25,050.52	\$ 8,305.48	
14	Monthly reporting	Report	14	\$ 2,792.65	\$ 39,097.10	\$ 1,565.42	\$ 25,783.33	\$ 27,348.75	\$ 11,748.35	
15	Regulatory communications	Pre-approved and determined by DNR	1	\$ 15,000.00	\$ 15,000.00	\$ 2,718.75	\$ -	\$ 2,718.75	\$ 12,281.25	
16	Microcosm and bio-trap study	Lump sum	1	\$ 45,793.40	\$ 45,793.40	\$ 162.50	\$ 37,259.24	\$ 37,421.74	\$ 8,371.66	
17	Shallow soil and sediment investigation	Pre-approved and determined by DNR	1	\$ 55,119.50	\$ 55,119.50	\$ 5,832.38	\$ 13,632.04	\$ 19,464.42	\$ 35,655.08	
					2015-2016 Change Order Total ²	\$ 751,912.27	\$ 20,478.63	\$ 535,487.93	\$ 555,966.56	\$ 195,945.71

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 Additional costs detailed in Note 1 above increase the change order budget to \$760,352.38.

Table 4

**2017 Change Order Budget Summary
Penta Wood Products Superfund Site
Siren, Wisconsin**

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

Task	Description	Unit	Estimated Quantity	Unit Cost	Budget	Project Costs				
						Current Invoice Cost (through 10/2/2016)	Previous Invoiced Cost	Total Invoiced Cost (through 10/2/2016)	Change Order Budget Remaining (through 10/2/2016)	
01	Site safety plan	Plan	1	\$ 1,310.50	\$ 1,310.50	\$ -	\$ -	\$ -	\$ 1,310.50	
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	\$ -	\$ -	\$ -	\$ 15,381.60	
04	Quarterly fluid level monitoring	Event	4	\$ 3,471.60	\$ 13,886.40	\$ -	\$ -	\$ -	\$ 13,886.40	
05	Semiannual monitoring well sampling	Event	2	\$ 26,278.28	\$ 52,556.56	\$ -	\$ -	\$ -	\$ 52,556.56	
06	Semiannual residential well sampling	Event	2	\$ 4,194.89	\$ 8,389.78	\$ -	\$ -	\$ -	\$ 8,389.78	
07	Semiannual reporting	Report	2	\$ 6,201.00	\$ 12,402.00	\$ -	\$ -	\$ -	\$ 12,402.00	
08	Monthly reporting	Report	12	\$ 1,594.00	\$ 19,128.00	\$ -	\$ -	\$ -	\$ 19,128.00	
09	Regulatory communications	Pre-approved and determined by DNR	1	\$ 15,000.00	\$ 15,000.00	\$ -	\$ -	\$ -	\$ 15,000.00	
					2017 Change Order Total	\$ 140,152.84	\$ -	\$ -	\$ -	\$ 140,152.84