



November 22, 2016

Reference No. 086165-03-14

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

Dear Phil:

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

GHD Services Inc. (GHD) has prepared this monthly status update for the period of October 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 – October through December 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***

- 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***

- Profiling and disposal of the water treatment chemicals were coordinated.

**Phase 03-Task 08      *Housekeeping and grounds keeping***

- The current invoice includes subcontractor (Austin Lake Landscaping) costs for mowing completed on September 29, 2016.

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

- Quarterly groundwater and LNAPL level monitoring was completed on October 7, 2016.

**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.
- Quarterly groundwater monitoring well sampling was conducted during October 10 through 14, 2016.
- The preliminary October 2016 groundwater sampling results were reviewed.
- The current invoice includes subcontractor (TestAmerica Laboratories) costs for the October 2016 groundwater sample laboratory analyses.
- The current invoice includes subcontractor (Field Environmental Instruments) costs for the October 2016 monitoring and sampling field equipment rental.

**Phase 03-Task 12      *Semiannual residential well sampling***

- Semiannual residential well sampling was conducted on October 10, 2016.
- The current invoice includes subcontractor (TestAmerica Laboratories) costs for the October 2016 residential well sample laboratory analyses.

**Phase 03-Task 13      *Quarterly reporting***

- The draft Quarterly Report – July through September 2016 was prepared.

**Phase 03-Task 14      *Monthly reporting***

- The Monthly Status Report – September 2016 was prepared and subsequently submitted on November 9, 2016.

**Phase 03-Task 15      *Regulatory communications***

- GHD, WDNR, and USEPA met at the Site on October 11, 2016.



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

- Microcosm and bio-trap study 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'.

Tim Ree

TB/sb/35

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
<b>Purchase Order Total</b>		<b>\$ 1,271,421.94</b>

**Project Costs**

Current Invoice Cost (through 10/30/2016)	Previous Invoiced Cost	Total Invoiced Cost (through 10/30/2016)	Purchase Order Budget Remaining (through 10/30/2016)
\$ -	\$ 180,027.59	\$ 180,027.59	\$ 1,091,394.35
<b>\$ -</b>	<b>\$ 180,027.59</b>	<b>\$ 180,027.59</b>	<b>\$ 1,091,394.35</b>

**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
<b>Change Order Total</b>		<b>\$ 892,065.11</b>

**Project Costs**

Current Invoice Cost (through 10/30/2016)	Previous Invoiced Cost	Total Invoiced Cost (through 10/30/2016)	Change Order Budget Remaining (through 10/30/2016)
\$ 33,617.74	\$ 555,966.56	\$ 589,584.30	\$ 162,327.97
\$ -	\$ -	\$ -	\$ 140,152.84
<b>\$ 33,617.74</b>	<b>\$ 555,966.56</b>	<b>\$ 589,584.30</b>	<b>\$ 302,480.81</b>

<b>Total Budget Status <sup>1</sup></b>	<b>\$ 1,271,421.94</b>
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<b>\$ 33,617.74</b>	<b>\$ 735,994.15</b>	<b>\$ 769,611.89</b>	<b>\$ 501,810.05</b>
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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 10/30/2016)	Previous Invoiced Cost	Total Invoiced Cost (through 10/30/2016)	Purchase Order Budget Remaining (through 10/30/2016)
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 10/30/2016)	Previous Invoiced Cost	Total Invoiced Cost (through 10/30/2016)	Purchase Order Budget Remaining (through 10/30/2016)
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
<b>Annual Tasks Subtotal</b>					<b>\$ 599,290.97</b>	<b>\$ 1,198,581.94</b>	<b>\$ -</b>	<b>\$ 145,545.57</b>	<b>\$ 145,545.57</b>	<b>\$ 1,053,036.37</b>

**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 10/30/2016)	Previous Invoiced Cost	Total Invoiced Cost (through 10/30/2016)	Purchase Order Budget Remaining (through 10/30/2016)	
<b>Additional Tasks</b>											
20	Alternate remedy recommendation <sup>1</sup>	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	
						<b>Additional Tasks Subtotal</b>	<b>\$ 72,840.00</b>	<b>\$ -</b>	<b>\$ 34,482.02</b>	<b>\$ 34,482.02</b>	<b>\$ 38,357.98</b>
						<b>Purchase Order Total</b>	<b>\$ 1,271,421.94</b>	<b>\$ -</b>	<b>\$ 180,027.59</b>	<b>\$ 180,027.59</b>	<b>\$ 1,091,394.35</b>

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			
						Current Invoice Cost (through 10/30/2016)	Previous Invoiced Cost	Total Invoiced Cost (through 10/30/2016)	Change Order Budget Remaining (through 10/30/2016)
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	\$ -	\$ 2,927.78	\$ 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	\$ -	\$ 7,919.90	\$ 7,919.90	\$ 12,890.10
07	Waste disposal	Lump sum	1	\$ 173,149.00	\$ 173,149.00	\$ 567.50	\$ 137,516.50	\$ 138,084.00	\$ 35,065.00
08	Housekeeping and grounds keeping	Lump sum	1	\$ 16,545.30	\$ 16,545.30	\$ 441.00	\$ 13,675.94	\$ 14,116.94	\$ 2,428.36
09	Quarterly fluid level monitoring	Event	4	\$ 3,471.65	\$ 13,886.60	\$ 636.00	\$ 3,115.56	\$ 3,751.56	\$ 10,135.04



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				
						Current Invoice Cost (through 10/30/2016)	Previous Invoiced Cost	Total Invoiced Cost (through 10/30/2016)	Change Order Budget Remaining (through 10/30/2016)	
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 <sup>1</sup>	Event	3	\$ 26,278.28	\$ 78,834.84	\$ 21,319.42	\$ 29,809.55	\$ 51,128.97	\$ 27,705.87	
12	Semiannual residential well sampling	Event	2	\$ 4,194.89	\$ 8,389.78	\$ 2,910.00	\$ 5,464.91	\$ 8,374.91	\$ 14.87	
13	Quarterly reporting	Report	4	\$ 8,339.00	\$ 33,356.00	\$ 2,917.60	\$ 25,050.52	\$ 27,968.12	\$ 5,387.88	
14	Monthly reporting	Report	14	\$ 2,792.65	\$ 39,097.10	\$ 1,995.38	\$ 27,348.75	\$ 29,344.13	\$ 9,752.97	
15	Regulatory communications	Pre-approved and determined by DNR	1	\$ 15,000.00	\$ 15,000.00	\$ 1,700.19	\$ 2,718.75	\$ 4,418.94	\$ 10,581.06	
16	Microcosm and bio-trap study	Lump sum	1	\$ 45,793.40	\$ 45,793.40	\$ 643.15	\$ 37,421.74	\$ 38,064.89	\$ 7,728.51	
17	Shallow soil and sediment investigation	Pre-approved and determined by DNR	1	\$ 55,119.50	\$ 55,119.50	\$ 487.50	\$ 19,464.42	\$ 19,951.92	\$ 35,167.58	
					<b>2015-2016 Change Order Total <sup>2</sup></b>	<b>\$ 751,912.27</b>	<b>\$ 33,617.74</b>	<b>\$ 555,966.56</b>	<b>\$ 589,584.30</b>	<b>\$ 162,327.97</b>

## 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 10/30/2016)	Previous Invoiced Cost	Total Invoiced Cost (through 10/30/2016)	Change Order Budget Remaining (through 10/30/2016)	
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	
					<b>2017 Change Order Total</b>	<b>\$ 140,152.84</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 140,152.84</b>