



November 19, 2020

Reference No. 086165-07-11

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

Dear Mr. Richard:

**Re: Proposed Cost Estimate
Scope of Work – January 1 through December 31, 2021
Penta Wood Products Superfund Site – Siren, Wisconsin
WDNR BRRS Activity #02-07-000532**

GHD Services Inc. (GHD) is pleased to provide this proposed cost estimate as Wisconsin Department of Natural Resources (WDNR) requested in a letter dated November 18, 2020 for the Penta Wood Products Superfund Site (Site) located in Siren, Wisconsin. The primary purpose of the scope of work (SOW) is to continue the groundwater monitoring and sampling while the United States Environmental Protection Agency (USEPA) reviews the results of the remediation system shutdown pilot study for the Site and makes a decision on future remedial action requirements. The tasks and assumptions required to complete the SOW and associated cost estimate are discussed below.

1. Scope of Work - 2021

GHD would perform the scope of work as discussed below.

Task 1 – Site safety plan preparation

Complete an annual review of the Site-Specific Health and Safety Plan and update accordingly based on the planned work during 2021.

Task 2 – Housekeeping and grounds keeping

Continue general housekeeping and grounds keeping at the Site including:

- Mowing (typically one time every 3 weeks during May through September, assume eight events)
- Snowplowing as WDNR determines may be necessary (assume four events)
- Annual fire extinguisher and backflow preventer inspection

Task 3 – Semiannual groundwater/LNAPL level monitoring

Conduct groundwater/LNAPL level monitoring at all Site wells on a semiannual basis in April and October 2021. In addition, conduct continuing obligations and well inspections during the monitoring events.



Task 4 – Semiannual groundwater well sampling

Conduct groundwater sampling at twenty-six (26) Site monitoring and extraction wells on a semiannual basis in April and October 2021. Collect quality assurance and quality control (QA/QC) samples during each event. Submit all samples for the following laboratory analyses:

- Pentachlorophenol (PCP)
- Naphthalene
- Benzene, toluene, ethylbenzene, and xylenes (BTEX)
- Dissolved metals (arsenic, copper, iron, manganese, and zinc)
- Natural attenuation parameters (alkalinity, hardness, nitrate, sulfate, total organic carbon, dissolved methane, and chloride)

Prior to sampling, purge each well and monitor field parameters (temperature, conductivity, pH, dissolved oxygen, oxidation reduction potential, turbidity, total iron, and total sulfide).

Task 5 – Semiannual residential well sampling

Conduct residential well sampling at six (6) residential properties surrounding the Site on a semiannual basis in April and October 2021. Also, conduct sampling at the shop well at the Wegner property. Prepare notification letters and sample result letters and send to the property owners. In addition, conduct sampling at the onsite water supply well on a semiannual basis. Collect quality assurance and quality control (QA/QC) samples during each event. Submit all samples for the following laboratory analyses:

- Pentachlorophenol (PCP)
- Naphthalene
- Benzene, toluene, ethylbenzene, and xylenes (BTEX)

Prior to sampling, purge each well and monitor field parameters (temperature, conductivity, and pH).

Task 6 – Semiannual reporting

Prepare semiannual reports documenting all Site work and submit to USEPA during January 2021 and July 2021. Include summary tables and figures and an evaluation of the monitoring and sampling data with recommendations in the reports. In addition, participate in semiannual progress calls with WDNR and USEPA.

Task 7 – Monthly reporting

Prepare monthly status updates with each invoice. Include a brief description of work that was completed and an update on project budget. Periodically provide updates to the WDNR project manager through phone calls and emails.

Task 8 – Regulatory communications

Participate in unscheduled calls and meetings with WDNR and USEPA as WDNR determines necessary.



Task 9 – Additional work

Develop cost estimates and work plans and initiate additional potential work that may arise during the completion of this scope of work, as WDNR determines necessary. Additional work could include:

- Updating the Operation and Maintenance Plan and Quality Assurance Project Plan
- Planning for soil management, stormwater management, and erosion control
- Providing support for obtaining USEPA funding for wetland excavation and surface debris mitigation
- Responding to questions and/or providing data and information to support USEPA's final decision for future remedial actions and monitored natural attenuation

GHD would provide a budget and a specific scope of work for WDNR's review and approval prior to beginning any additional work.

2. Cost Estimate

The cost estimate and price sheet for each task listed above is included in Attachment A. The cost estimate for completing the SOW in 2021 is \$203,290.80.

This proposed cost is estimated based on time and materials. GHD's cost estimate includes revised GHD staff hourly rates as compared to the previous contract. The revised GHD rates represent an average 8-percent discount on standard GHD rates. GHD will continue to only bill WDNR based on actual time and materials for work performed. The costs are estimated for WDNR contract administration and budgeting purposes. Actual costs will not exceed the estimated task subtotals included on the attached table without prior approval from WDNR.

If you have any questions or require additional information after reviewing this proposed cost estimate, please do not hesitate to contact us at (651) 639-0913.

Sincerely,

GHD

Tim Ree

TR/md/PRO-1

Encl.

cc: Shelley Fox, WDNR (via email)

Shawn Horn

Attachment A

**Proposed Cost Estimate Price Sheet - 2021 Scope of Work
Penta Wood Products Superfund Site
Siren, Wisconsin**

Task	Description	Unit	Estimated Quantity	Unit Cost	Extended Cost
1	Site safety plan preparation	Plan	1	\$ 1,389.00	\$ 1,389.00
2	Housekeeping and grounds keeping	Time and materials	1	\$ 18,893.00	\$ 18,893.00
3	Semiannual groundwater/LNAPL level monitoring	Event	2	\$ 4,828.20	\$ 9,656.40
4	Semiannual groundwater well sampling	Event	2	\$ 38,550.75	\$ 77,101.50
5	Semiannual residential well sampling	Event	2	\$ 9,226.45	\$ 18,452.90
6	Semiannual reporting	Report	2	\$ 11,187.00	\$ 22,374.00
7	Monthly reporting	Report	12	\$ 1,702.00	\$ 20,424.00
8	Regulatory communications	Pre-approved by WDNR	1	\$ 10,000.00	\$ 10,000.00
9	Additional work	Pre-approved by WDNR	1	\$ 25,000.00	\$ 25,000.00
Total Contract Cost (January 1 through December 31, 2021)					\$ 203,290.80