



November 20, 2019

Tim Ree
GHD
1801 Old Highway 8
NW Suite 114
St Paul, MN 55112

Subject: Scope of Work and Request for Cost Estimate, Penta Wood Products Superfund Site, Siren Wisconsin

Dear Mr. Ree:

The purpose of the scope of work (SOW) is to continue the remediation system shutdown pilot study at the Penta Wood Products Superfund Site located in Siren, Wisconsin as required by the USEPA approved Remediation System Shutdown Pilot Study Work Plan (GHD, November 12, 2015). The contract will be for a one-year period during January 1 through December 31, 2020 and is intended to cover all known and expected costs. Please provide costs for the SOW as discussed in the tasks 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 2020.

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 after each 3-inch snowfall during January and December to allow for well access during quarterly groundwater/LNAPL level monitoring during January 2020 (assume four events)
- Annual fire extinguisher and backflow preventer inspection

Task 3 – Entrance gate replacement

Remove the existing entrance gate and install a new entrance gate along Daniels 70 (approximate 20-foot width).

Task 4 – Security fence replacement

Remove existing security fence along Daniels 70 and install new 6-foot chain-link fence (approximate length of 245 feet).

Task 5 – Quarterly groundwater/LNAPL level monitoring

Conduct groundwater/LNAPL level monitoring at all Site wells on a quarterly basis in January, April, July, and October 2020. In addition, conduct continuing obligations and well inspections during the quarterly monitoring events.

Task 6 – Semiannual groundwater well sampling

Conduct groundwater sampling at twenty-six (26) Site monitoring and extraction wells on a semiannual basis in April and October 2020. 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 7 – Semiannual residential well sampling

Conduct residential well sampling at six (6) residential properties surrounding the Site on a semiannual basis in April and October 2020. 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 8 – Semiannual reporting

Prepare semiannual reports documenting all Site work and submit to USEPA during July 2020 and January 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 9 – 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 10 – Regulatory communications

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

Task 11 – Additional work

Develop cost estimates and work plans to conduct additional potential work that may arise during the completion of this scope of work as WDNR determines necessary.

Task 12 – Remedy change

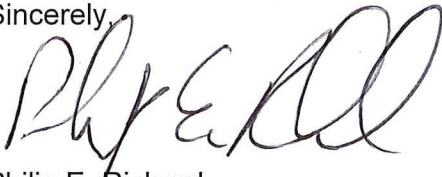
Work with WDNR and USEPA to change the Site remedy currently identified in the Record of Decision to a monitored natural attenuation type of remedy as WDNR determines necessary. If requested, provide supporting data and information related to the remediation system shutdown pilot study including participating in phone calls and meetings.

Task 13 – Wetland excavation and surface debris mitigation support

Work with WDNR and USEPA in preparation of conducting wetland excavation and surface debris mitigation as WDNR determines necessary.

If you have any questions or concerns regarding the content of this letter, please contact me at 715 762 1352.

Sincerely,



Philip E. Richard
Hydrogeologist
Bureau for Remediation & Redevelopment

C: Shelley Fox– WDNR, Madison (via email)