



PROJECT:
***Renaud Electric Heating and Cooling Cleanup
Action***

This project was completed as an independent cleanup action under the Washington State Department of Ecology's Voluntary Cleanup Program. This project showcases Cherokee Construction Services' expertise in scoping, estimating, performing environmental investigations, cleanup actions, and overall multimedia Site remediation under CERCLA/RCRA state equivalent programs.

Cherokee Construction Services initially performed a Phase I Environmental Site Assessment (ESA) for this 2.3-acre Site as part of a property transaction and in accordance with ASTM and AAI standards. The ESA identified past biofuel refining by a former tenant and the former presence of underground storage tanks at the Site. Due to a pending sale the Phase I ESA, Phase II Subsurface Investigation, and Cleanup Action were performed in a two month time frame.

An initial subsurface investigation that indicated the presence of priority pollutant metals and petroleum constituents were present in the soil and groundwater at the Site above Ecology's Model Toxics Control Act (MTCA) Cleanup Levels. Cherokee Construction Services prepared a cleanup action plan and performed the cleanup action at the Site. A total of 500-tons of petroleum contaminated soil and 4,000 gallons of petroleum contaminated groundwater were removed from the Site. A total of 700-pounds of oxygen release compound (ORC) was added as a slurry to the groundwater in the base of the excavation to enhance natural attenuation of petroleum in groundwater.

Following the Cleanup Action we installed a total of six monitoring wells to determine the nature and extent of metals and petroleum contamination in groundwater at the Site. Following two quarters of groundwater sampling, it was determined that metals detections in earlier samples was due to suspended solids in the original reconnaissance samples. Following well installation and sampling metals concentrations were below MTCA. Additionally, petroleum contamination in the groundwater was below MTCA Cleanup Levels for both quarters.

Project Highlights:

- Ecology Equivalent to RCRA/CERCLA Cleanup Action
- Soil & Groundwater Sampling, Waste Profiling & Removal
- Removal of 500-Tons of PCS
- Application of ORC
- Installation, Surveying, Monitoring & Sampling of Groundwater

Project Vitals:

- **Client:** Tom Renaud
- **Location:** Kelso, Washington
- **Contract Amount:** \$165,000
- **Contract #:** Private Contract
- **Duration:** December 2010 – Present
- **Amount Self-Performed:** 100%
- **NAICS Code:** 541620 & 562910

