



Remedial Action Contract 2, Full Service, U.S. EPA, Region 8

Contract Value	36 work assignments to date, valued at more than \$55 million
Prime/subcontractor	Prime contractor
Dates	01/2006 - 01/2011 base period and 01/2011 - 01/2016 option period
Description of Services	

Summary

PWT is the prime contractor providing a full suite of RAC services to EPA for environmental support at CERCLA sites in Region 8, and crossover work in Region 9. PWT performs multiple concurrent work assignments in Colorado, Montana, Utah, South Dakota, and California.

PWT work experience includes remedial investigations of soil, water, and air for potential contamination; feasibility studies; remedial design; and remedial actions; operations and maintenance; conducting five-year reviews; and providing oversight of clean-up work conducted by PRP's. Other support services to EPA under the RAC include engineering; regulatory compliance support; negotiation support; construction and construction management; site and waste management; risk assessments support; long-term response actions, groundwater monitoring, and data management. PWT has completed 28 and is currently performing 18 work assignments under the RAC2, Region 8 Contract with EPA. The table below lists each of the work assignments implemented by PWT to date, and describes the type of work conducted.

PWT was awarded the 5-year option in January, 2011. There have been no safety incidents on this contract and PWT has received "outstanding" or "excellent" client ratings for the entire duration of the contract.

Relevant Technical Experience

Document Review – PWT performs document reviews on nearly all projects under the RAC. Notably, PWT is conducting technical review of documents for the PRP-lead remedial investigation at former smelter sites in Montana as well as at the complex U.S. Magnesium site in Utah. PWT also is the primary author for EPA of numerous types of CERCLA documents. This experience enables PWT to conduct very detailed and efficient technical document reviews. With this extensive document preparation experience, PWT also conducts document reviews for compliance with CERCLA requirements, EPA Guidance, and current standard environmental and engineering practices. For example, PWT has prepared RODs for the East Helena Site in MT and International Smelter Site in UT; remedial design packages, site management plans, and remedial action completion reports for construction at California Gulch OU11 Site in CO, the Bountiful Wood Cross Site in UT, and the Gilt Edge Mine Site in SD. PWT has also performed technical document reviews of RD and RA reports, QAPPs, Data Summary Reports, and RI Work Plans for the US Magnesium site in UT, ACM Site in MT, Purity Oil Site in CA, Vasquez Blvd./I70 Site in CO, Five Points Solvent Site in UT and the Ogden Rail Yard Site in UT. PWT routinely conducts timely document reviews on expedited schedules.

Field Oversight – This is a routine part of most work assignments under the RAC whether PWT is in an oversight role or the role of the prime contractor for EPA. The PWT Team is conducting field oversight for the construction of engineered covers at the Purity Oil site; remedial investigation for soil at ACM

Smelter site and US Magnesium site; remedial investigation of surface water and groundwater contamination at the Lockwood site, Vasquez Blvd./I70 site, Five Points Solvent site and the US Magnesium Site. PWT is performing as the prime EPA contractor and is managing and overseeing RAs to implement remediation of mine tailings in soils and fluvial deposits at the California Gulch OU11 Site near Leadville. PWT also performed as the prime contractor for RD/RA activities at the Gilt Edge Site in South Dakota. PWT performs O&M related oversight activities at Bountiful Woods Cross Site, Standard Mine Site in CO and California Gulch site.

Sampling Oversight – PWT has conducted soil sampling at California Gulch and split soil sampling at ACM for metal contamination. PWT has conducted groundwater sampling at Lockwood for VOCs, and groundwater sampling at Vasquez Blvd./I70 for metals and organics. PWT has conducted split sampling at the US Magnesium site for VOCs, SVOCs, metals, PCB,s and dioxins/furans. PWT has conducted soil vapor and indoor air sampling at the Bountiful and Lockwood Sites and evaluated vapor mitigation measures at the source of contamination.

Data Management – Compilation, review, evaluation, and management of data, including GIS databases, is a fundamental activity in virtually all the work assignments EPA has issued PWT to date.

Technical Meeting Support – PWT supports EPA in technical meetings and negotiations for every work assignment. For example, PWT supports EPA in RD/RA technical negotiation sessions and meetings with the MDEQ and PRPs for Lockwood and Purity oil, and is actively involved in support to EPA at RI/FS technical meetings with the PRPs for ACM and Vasquez Blvd./I70 OU2.

Community Involvement – PWT provides support for public meetings and other community involvement activities, has prepared Community Involvement Plans for EPA, and prepared Fact Sheets for EPA to share with the public at Superfund Sites where there is a variety of public concerns. Example support includes the ACM Smelter Site in MT where there is contaminated soil in the community of Black Eagle, Lockwood Groundwater Solvent Plume Site in MT where there is a presence of contaminated groundwater within the community; the East Helena site in MT where there is the potential for elevated blood lead levels related to soil from historical metal smelting in the community; and in Neihart MT where clean-up of contaminated soil in residential yards requires close coordination and communication with the residents as the remedial action is being designed, planned, and implemented.

Summary of Performance Evaluations

“Given what I know today about the Contractor’s ability to execute what they promised in their proposal, I definitely would award to them today given that I had a choice” - EPA Performance Evaluation Report, 2011-2012.

Representative Relevant Work Assignments

ACM Smelter and Refinery, Black Eagle, Montana

PWT is providing Remedial Investigation/Feasibility Study support on the ACM Smelter and Refinery Site in Black Eagle, MT. The area has been impacted with lead, arsenic, and other heavy metals from historical copper smelting and refining operations. PWT prepared a detailed Conceptual Site Model, SAP/QAPPs, conducted soil sampling and analyses, and prepared a Data Summary Report. PWT is also providing ongoing technical review of PRP sampling plans and reports, as well as oversight of field activities and data quality.



Carpenter Snow Creek, Neihart, Montana

PWT is conducting investigation and remedial design for excavation of residential soils contaminated with lead and arsenic in the mountain community of Neihart, Montana, and of a waste repository where excavated soil will be disposed. The siting of the waste repository presents challenges to the design stemming from seismic concerns, a location immediately adjacent to a State highway, space constraints between that highway and a bedrock slope, and the volume of soil to be placed.

PWT provides community involvement support and also assists in the evaluation of reuse plans and



redevelopment plans, review of cultural resource evaluations, and development of institutional controls. Excellent public interaction by the entire sampling and design crews is paramount as a result of the small community locale and culture.

Vasquez Boulevard/I70 Superfund Site OU 1, 2 and 3 Denver, Colorado

At OU 3, PWT is conducting a Phase II Remedial Investigation/Feasibility Study involving a cadmium groundwater plume, with the goal of determining the source of the contamination associated with the former Argo Smelter. Upon completion of field investigations PWT will produce a remedial investigation report. At OU2 PWT is conducting a groundwater investigation involving metals and organic contamination associated with the former Omaha and Grant Smelter. PWT is also providing technical oversight of construction activities in OU2 by the City of Denver, which could affect contaminant migration in the area of the former smelter.



PWT conducted the first Five Year Review for the Community Soils Operable Unit (OU1) which involved sampling of 4,400 properties and cleanup of 800 properties in northeast Denver.

All EPA Work Assignments on this contract include:

WA Name	Location	Budget / Final	Description
1 Lockwood	Billings, MT	\$202K / \$115K	Negotiation support for RI work plan for PRP-lead RD/RA for volatile organic compound groundwater plume.
2 Purity Oil Sales	Malaga, CA	\$64K / \$56K	Five Year Review to evaluate and verify that the treatment systems and remedies for OUs 1 and 2 are meeting the RA objectives as outlined in the RODs.
3 Purity Oil Sales	Malaga, CA	\$2.2M	Technical oversight for multi-phase remedial actions at a complex, urban industrial site contaminated with waste oils and oil by-products. Ongoing.
4 East Helena	East Helena, MT	\$249K / \$232K	Oversight of RI/FS activities, community involvement, and preparation of the Proposed Plan and ROD.
5 International Smelter	Tooele County, UT	\$170K / \$145K	Community involvement, fact sheet/proposed plan/ROD preparation, review of PRP submittals.
6 Ogden Rail Yard	Ogden, UT	\$216K / \$197K	RA oversight of the construction of a cofferdam and cover, sampling and removal of an industrial sewer line, and extraction of dense nonaqueous-phase liquids (DNAPL) at the Ogden Rail Yard Site.
7 California Gulch, OU 11	Leadville, CO	\$7.2M / \$6.9M	RA. Remediation and revegetation of 150 acres of pastureland and 18 acres of fluvial deposits along the Arkansas River, and follow-on operations and maintenance.
8 Gilt Edge	Deadwood, SD	\$3.4M	Fund-lead RA. Drilling and pressure-grouting repair of >3,200 feet of diversion ditches to reduce infiltration into acid-rock drainage waste pile, and an additional 1000 feet of ditches have been lined with an impermeable geomembrane to help reduce infiltration.
9 California Gulch, OU5	Leadville, CO	\$2.1M / \$1.4M	Final RD and RA. RD sampling, construction of a 14-acre waste containment area, excavation and disposal of 50 acres of arsenic- and lead-contaminated soil and mill tailings, cover construction, and revegetation of the entire site.

10	East Helena	East Helena, MT	\$123K	Continuation of WA 4.
11	Standard Mine	Gunnison County, CO	\$800K	RI/FS support, data evaluation, Biochemical reactor pilot study operation, maintenance and evaluation, community involvement, and risk assessment support. 2009-Ongoing.
12	Five Points	Wood Cross, UT	\$41K	RI/FS Oversight. Technical meeting support and technical assistance for development / review of RI report, FS report, proposed plan, ROD, sampling & analysis plan/QAPP. Ongoing.
13	Vasquez Boulevard OU1	Denver, CO	\$35K / \$23K	Five-Year Review.
14	Gilt Edge	Deadwood, SD	\$3.5M	RA drilling and pressure grouting of fractured rock in diversion ditches. ARRA funded. Ongoing.
15	Bountiful / Woods Cross	Bountiful, UT	\$6.0M	Final design and RA. Construction of a groundwater pump-and-treat system for a groundwater PCE plume. Continued O&M support. ARRA funded. Ongoing.
16	U.S. Magnesium	Tooele County, UT	\$690K	RI/FS. Preparation of an RI/FS work plan and SAP. Technical support for risk assessment, air quality, data management, GIS, community involvement. 2010-Ongoing.
17	Carpenter Snow Creek	Neihart, MT	\$930K	RD. RD investigation (completion of RI) and preparation of an RD for a waste repository and residential soil removals. Also data management, and GIS and community involvement support. 2010-Ongoing.
18	Anaconda Copper Mining Refinery and Smelter	Great Falls, MT	\$220K	RI/FS. Preparation of an RI/FS work plan and SAP, technical and field oversight of remedial investigations, data management support, and community involvement for this smelter-impacted site that includes residential soils. Ongoing.
19	Purity Oil	Malaga, CA	\$61K	Five-Year Review.
20	Milltown Reservoir Sediments	Milltown, MT	\$147K	Five-Year Review and Data Evaluation.
21	East Helena	E. Helena, MT	\$50K	Five-Year Review.
22	Lockwood Solvent Groundwater Plume Site, OU1	Billings, MT	\$1.4M	RD. Remedial Design of SVE and low-temperature thermal desorption for soil, and in situ bioremediation of groundwater in the source area and plume leading edge for the Lockwood Solvent Groundwater Plume Site. Ongoing.
23	Vasquez Boulevard, OU3	Denver, CO	\$1.2M	RI/FS. RI/FS for cadmium and arsenic-impacted groundwater and potential smelter source areas, and community involvement support and preparation of the ROD. Ongoing.
24	ACM Refinery and Smelter	Great Falls, MT	\$900K	RI/FS oversight for smelter-impacted site, including residential soils. Ongoing.
25	Vasquez Boulevard, OU2	Denver, CO	\$135K	Groundwater monitoring for heavy-metal impacted groundwater. Ongoing.
26	Lockwood Solvent Groundwater Plume Site, OU2	Billings, MT	\$600K	RD Oversight for PCE-impacted soil and groundwater. Remedial technologies are permeable reactive barrier, enhanced bioremediation, and in situ chemical oxidation. Ongoing.
27	ACM Burlington Northern Oversight	Black Eagle, MT	\$900K	RI/FS oversight for historical railway ROW with smelter related heavy-metal impacted soils. Ongoing.
28	Standard Mine	Crested Butte, CO	\$40K	Shutdown and dismantling of biochemical reactor treating a high-altitude mine adit discharge.
29	Bountiful LTRA	Bountiful, UT	\$500K	Operation and maintenance of a groundwater extraction and treatment system for PCE-impacted groundwater. Ongoing.
30	U.S. Magnesium	Tooele County, UT	\$700K	RI/FS, cost estimating, and negotiation support. Ongoing.
31	Rocky Flats Industrial Park	Jefferson County, CO	\$57K	Technical Assistance with Non-Time Critical Removal Actions (NTCRA), Ongoing
32	East Helena	East Helena, MT	\$775K	RD/RA, Prepare Remedial Design for the Selected Remedy, Ongoing
33	Moat Industries	Columbus, MT	\$15K	Remedial Technical Assistance, Development of Proposed Plan and ROD for Site Closure, Ongoing
34	Lowry Landfill	Arapahoe County, CO	\$1M	Technical assistance including develop a Field Sampling Plan and Quality Assurance Project Plan.
35	Cheyenne River	Cheyenne River Indian Reservation, SD	\$48K	Technical assistance to evaluate potential response actions identified by the EPA.
36	Colorado Smelter	Pueblo, CO	TBD	RI /FS to investigate and study metals contamination related to former smelter activities to select a remedy for community soils remediation.