

Lockwood Solvent Ground Water Plume Superfund Site Fact Sheet

Lockwood Site Update

The Lockwood Solvent Ground Water Plume Site became an EPA-designated Superfund site in 2000. Much of the ground water at this site is contaminated with volatile organic chemicals including tetrachloroethene (PCE), trichloroethene (TCE), cis-1,2-dichloroethene, and vinyl chloride. These chemicals come from two source areas: the Beall Trailers, Inc. facility and the Soco West facility. The chemicals have migrated downward into subsurface soils and ground water from these two sources. These chemicals can also disperse as vapor from shallow ground water, enter the indoor air of buildings and be inhaled which poses short and long-term risks to public health since these chemicals are known to be human health hazards.

The EPA and the Montana Department of Environmental Quality (DEQ) issued a Record of Decision (ROD) in 2005. The ROD is a public document that explains which cleanup alternatives will be used to clean up a Superfund site. This remedy, along with other potential response actions, is aimed at permanently remediating the contaminants in soil and ground water.

Since the ROD was issued, the site has been broken into specific areas called operable units. The Lockwood Site Operable Unit 1 (OU1) is the Beall Trailer source area and associated downgradient ground water plume. The Operable Unit 2 (OU2) area defines the approximate area of the Soco West source area and associated ground water plume. (See map)

The site is currently in Remedial Design. The Remedial Design is a series of engineering reports, documents, specifications, and drawings that detail the steps to be taken to clean up the site. A remedy is the process by which contaminants such as TCE are removed from, or mitigated, in an area. The Remedial Design requires sampling so that scientists and engineers can understand the specifics of on-site contamination in soil, water, and air. They will use this information to develop the best remedy process possible. Sampling activities will continue through 2013 with the possibility that the remedy implementation will begin in 2014. You may notice personnel, trucks, and drilling activities on various areas of the site as sampling activities are performed.

The EPA and DEQ have and will continue to work with the Lockwood Water and Sewer District to discuss ways to continue with the installation of the wastewater line around Taylor Place and Lomond Lane while minimizing impacts to the contaminated groundwater.

Operable Unit 1 Update

OU1 consists of the Beall Trailers facility at 1430 Highway 87 East including the contaminated soil on the Beall property and the contaminated groundwater that flows from the property both north towards the Yellowstone River and west towards the I-90 and Highway 87 bridge. The steam clean bay at the Beall Trailers facility is the source of contamination in soil and groundwater. Historical use of TCE in the trailer cleaning process leached through the soils and into the groundwater.

The EPA needs specific information about where the contamination is and how it moves in soil and groundwater in order to design an effective remedy. While the EPA had some data about the Beall Trailers facility, they needed more specific information in order to ensure that they can develop the most effective remedy possible. To gather this information, the EPA collected chemical and geotechnical data in April 2012 at the Beall Source Area. The results of the April 2012 sampling are available on the EPA's website (Data Trend Evaluation Technical Memorandum).

Later this winter, an aquifer test will be performed. The EPA is using this information to design the best remedy for OU1 and to support a petition for the establishment of a controlled groundwater area.

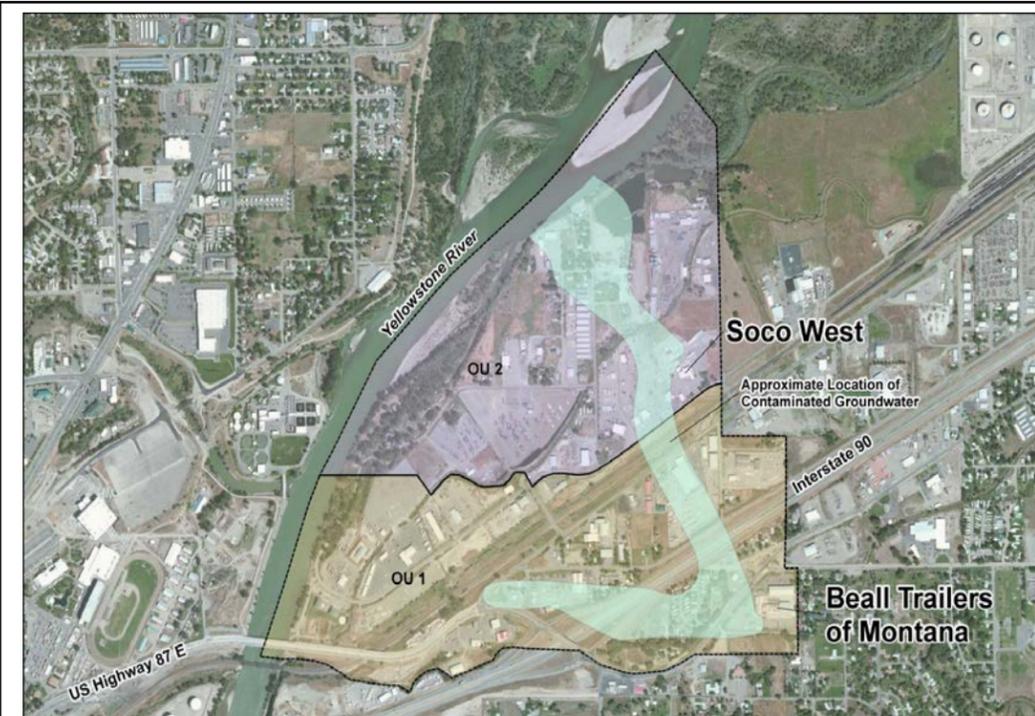
In response to both the public concern that was expressed during the public meeting in April 2012 and new health standards established for TCE in indoor air, the EPA is preparing a Vapor Intrusion Assessment for spring of 2013. Specifically, the assessment will show whether the TCE in groundwater is moving as a vapor into the soil and migrating upwards into homes near the Beall property. This assessment will occur at select properties both east and north of the Beall facility. The assessment will include collecting groundwater samples from directly below the properties, as well as soil vapor samples from both shallow and deep intervals. The EPA will contact property owners sometime in the spring of 2013 for participation in this assessment.

Operable Unit 2 Update

OU2 consists of the Soco West facility at 1353 Taylor Place including the contaminated soil on the property and the contaminated groundwater that flows from the property toward the Yellowstone River. In 2011, the Federal District Court for the District of Montana approved the settlement reached by the United States, the State of Montana and Soco West, Inc. for the cleanup of OU2 and identified Soco West as the responsible party for the cleanup with EPA and DEQ oversight. The EPA and DEQ have approved several of Soco West's work plans in 2012 to allow for sampling, design and implementation of the remedy. Several of these workplans are on EPA's website.

A Vapor Intrusion Assessment will be conducted in select homes and businesses downgradient of the Soco West property. The assessment will be conducted by Cardno ATC, Soco West's environmental consultant, under the oversight of EPA and DEQ. The assessment will consist of collecting shallow groundwater samples, sub-slab vapor samples and indoor air samples. The goal of the assessment is to determine if contaminants from the groundwater plume are migrating into homes and business and pose a risk to human health. The assessment will consist of two sampling events, the first in January 2013, when the ground is frozen and the second in May or June 2013, when the groundwater levels are likely at their highest. EPA and Cardno ATC have contacted property owners and are attempting to secure access to conduct the assessment.

Additional assessment work will also be conducted on and downgradient of the Soco West property in 2013. The assessment will consist of the installation monitoring wells, collection of soil and groundwater samples and laboratory testing of site materials, methods, and chemical processes on a small scale. The purpose of the assessment is to collect data to aid in the Remedial Design.



Community Meeting Information

There will be an open house to discuss the Lockwood Site, the remedy, and the upcoming work planned for OU1 and OU2. EPA, Montana State, and Facility representatives will attend to lead the discussion and answer questions.

- **January 24, 2013**
- **Lockwood School, 1932 Highway 87 East in the Middle School Commons**
- **7:00 p.m. to 9:00 p.m.**

Contact Information:

U.S. EPA Region 8, Montana Office

Federal Building
10 West 15th Street, Suite 3200
Helena, MT 59626

Remedial Project Manager OU1
Tillman McAdams
406-457-5015
866-457-2690
mcadams.tillman@epa.gov

Remedial Project Manager OU2
Roger Hoogerheide
406-457-5031
866-457-2690
hoogerheide.roger@epa.gov

Montana Department of Environmental Quality

Remedial Project Officer
John Podolinsky
1100 North Last Chance Gulch
P.O. Box 200901
Helena, MT 59620-0901
406-841-5040
800-246-8198
jpodolinsky@mt.gov

Web Links

More information on the Lockwood Site:
http://www.epa.gov/region8/superfund/mt/lockwood_solvents/index.html

More information on the Lockwood Chemicals:
<http://www.atsdr.cdc.gov/toxfaqs/index.asp>

This Sheet Contains Important Facts about:

- ✓ *The Lockwood Solvent Ground Water Plume Superfund Site*
- ✓ *Information about planned activities in OU1 and OU2*
- ✓ *Information about an upcoming community meeting*
- ✓ *Ways to learn more about the Lockwood Site and related topics including web links to more information*
- ✓ *Contact information for your EPA and State representatives*



US Environmental Protection Agency

10 West 15th Street, Suite 3200

Helena, MT 59626

Attn: R Hoogerheide