

December 2008 Update
Anaconda Company Smelter Superfund Site
Anaconda, Montana
(5-Year Review Date: September 29, 2005)

*H*ighlights Since the 2005 5-Year Review

- **Revegetation on the Anaconda Ponds dike faces at the Anaconda Regional Water, Waste & Soils OU was completed in 2006**
- **Maintenance (addition of six inch coil cover) to repair vegetation on the Drag Strip was completed by Atlantic Richfield in 2007**
- **Sampling of the uncapped portion of the East Anaconda Yards was completed by Anaconda-Deer Lodge County in 2007.**
- **Interior/Attic dust sampling to characterize the extent and magnitude of contamination within the community was completed by Atlantic Richfield in 2007**
- **Data collection to determine if repositories on Smelter Hill are leaking was initiated by Atlantic Richfield in 2007**
- **Dust monitoring adjacent to the community of Opportunity was initiated by Anaconda-Deer Lodge County in 2007**
- **Domestic water monitoring in the community of Opportunity was initiated by Anaconda-Deer Lodge County in 2007**
- **Anaconda-Deer Lodge County and Atlantic Richfield began negotiations for long-term funding of institutional controls and redevelopment in 2007**

Brief Site History: The Anaconda Smelter site is located at the southern end of Deer Lodge Valley near the location of the former Anaconda Minerals Company ore processing facilities. These facilities were developed to remove copper from ore mined in Butte from about 1894 through 1980, when the smelter closed. The Atlantic Richfield Company purchased the site in 1977 and is the primary Potentially Responsible Party (PRP). Other PRP's include RDM Multi-Enterprises, RARUS Railway and CSS Enterprises.

The milling and smelting wastes contain elevated concentrations of arsenic, as well as copper, cadmium, lead and zinc. These contaminants pose a potential risk to human health and to life in nearby streams and adjacent lands.

The EPA listed the area surrounding the smelter on the National Priorities List in September 1983.

Cleanup Activities Completed:

- Permanent relocation of all Mill Creek residents
- Residential soil cleanup in the Teresa Ann Terrace Subdivision
- Excavation and disposal of Arbiter Plant wastes
- Excavation and disposal of beryllium waste material.
- Stabilization of Red Sands waste adjacent to Warm Springs Creek
- Excavation and Treatment of smelter Flue Dust
- Capping of waste and development of Old Works Golf Course
- Capping of waste material in East Anaconda Development Area
- Excavation and disposal of Smelter Hill railroad grade
- Reclamation of Drag Strip Area
- Capping of the Anaconda Ponds
- Capping of the Triangle Waste Area
- Off-site shipment of Cashman concentrates
- Reclamation of portions of Smelter Hill, Stucky Ridge and West Galen.
- Reclamation of the A-Cell of the Opportunity Ponds.
- Cleanup of over 300 residential yards in Anaconda and surrounding area.
- Cleanup of commercial areas adjacent to railroad.
- Capping of railroad line through Anaconda.

Current Status: EPA is currently conducting the Remedial Design for the last operable unit at the site. The Remedial Design will provide for the implementation of all final remedies at the site as well as provide for long term monitoring and management of the entire site, including groundwater, surface water, maintenance and institutional controls. Concurrent with this design effort, the Remedial Action has been initiated and is ongoing at all operable units, including Old Works/East Anaconda Development Area, Community Soils and Anaconda Regional Water, Waste & Soils.

Summary of Protectiveness: Because the remedial actions at all of the operable units are protective and/or are expected to be protective, the remedy for the Anaconda Company Smelter Site is protective of human health and the environment.

Issues Impacting Protectiveness: Generally, areas that have been remediated are functioning as designed and, for the most part, are being managed and maintained in an appropriate manner. A few deficiencies that do not immediately impact the protectiveness of the remedy are noted. The following table summarizes the status of the follow-up actions addressing these issues.

**Anaconda Company Smelter Superfund Site
Five-Year Review Update Table
(Review Date: September 29, 2005)**

Issues	Recommendations/ Follow-up Actions	Follow-up Actions (Status/Due Date)	Status of Follow-up Actions 12/08	Responsible Party
1. Poor vegetation at the Drag Strip Subarea of the Old Works/East Anaconda Development Area OU.	Provide additional maintenance of the vegetation at the Drag Strip Subarea.	Request for Maintenance (RFM) approved in 2006	Maintenance (addition of six inch soil cover) to repair vegetation on the Drag Strip was completed by AR in 2007.	Atlantic Richfield (AR)
2. Poor vegetation with the temporary covers at Red Sands Subarea of the Old Works/East Anaconda Development Area OU	Evaluate redevelopment potential and use of temporary covers at the Red Sands Subarea.	EPA to require permanent covers in the final designs	In 2008 EPA directed AR to develop final designs Final cover designs to be initiated in 2009	AR/EPA
3. Poor vegetation with the Anaconda Ponds dike faces at the Anaconda Regional Water Waste & Soils OU.	Provide additional maintenance of the dike face soil covers at the Anaconda Ponds.	RFM approved in 2005	Maintenance to repair vegetation on the Anaconda Ponds dike faces was completed by AR in 2006.	AR
4. Potential for buried hazardous waste and beryllium in the East Anaconda Yard Subarea.	Investigate the potential for additional buried hazardous waste and or beryllium.	Remedy and land use under review	Land use decisions to be made in 2009	ADL
5. Lack of contaminant characterization of uncapped portion of the east Anaconda Yard Subarea.	Characterize contaminants within the uncapped portion.	Sampling completed in 2007. Prepare final design	Final cover design to be initiated in 2009.	ADL AR/EPA

Issues	Recommendations/ Follow-up Actions	Follow-up Actions (Status/Due Date)	Status of Follow-up Actions 12/08	Responsible Party
6. Lack of final disposition plan for leachate from the Smelter Hill Repository Complex.	Determine the final disposition of repository leachates.	Sampling plan initiated in 2007	Data is being collected by AR to determine if repositories on Smelter Hill are leaking	AR
7. Concern with exposure to attic dust in residential areas.	Develop protocol to address potential exposure to attic dust.	Protocol prepared in 2006.	Interior/Attic dust sampling to characterize the extent and magnitude of contamination was completed in 2007. EPA to prepared ROD modification	AR
		Additional sampling conducted in 2007		AR
		Decision is required.		EPA
8. Concern with the long term funding and implementation of institutional controls through Anaconda-Deer Lodge County.	Develop long term implementation and funding plan for institutional controls.	EPA provided County funding to develop Institutional Control Program	Anaconda-Deer Lodge County completed first draft of Interim IC Program in 2008 County and Atlantic Richfield to continue negotiations for long-term funding of IC program.	ADL ADL/AR
9. Concern with air and groundwater quality in the community of Opportunity.	Provide air and groundwater monitoring in the community of Opportunity.	EPA provided County funding to conduct monitoring in Opportunity	Dust monitoring in Opportunity is being conducted by County.	ADL
			Domestic water monitoring in Opportunity is being conducted by County.	ADL