United States Environmental Protection Agency

OLEM/OSRTI
Washington, DC 20460

NATIONAL PRIORITIES LIST (NPL)

NPL Site

March 2017

ANACONDA ALUMINUM CO COLUMBIA FALLS REDUCTION PLANT | Columbia Falls, Montana *Flathead County*

Site Location:

The Anaconda Aluminum Co Columbia Falls Reduction Plant (also called Columbia Falls Aluminum) is a primary aluminum smelting facility located in northwest Montana approximately two miles northeast of Columbia Falls, in Flathead County.

Site History:

The Anaconda Copper Mining Company built the aluminum reduction facility and began aluminum production in 1955. The Atlantic Richfield Company (ARCO) purchased the plant in 1978 and operated it until 1985 when it was sold to the Montana Aluminum Investor's Corporation. In 1999, Glencore acquired the company and operated until 2009 when production stopped due to poor economic conditions for aluminum production. The property boundary currently includes approximately 3,200 acres with an operational area of approximately 950 acres. The plant is currently not in use. There are active NPDES and Air permits for the facility approved by Montana Department of Environmental Quality. The facility is considered a RCRA Large Quantity Generator.

Site Contamination/Contaminants:

A byproduct of the aluminum reduction process is spent potliner which is known to contain cyanide and flouride. These compounds can leach into ground water. Spent potliner material was landfilled on site from approximately 1955 to approximately 1985. Other landfills located at the site received various wastes throughout the lifespan of the plant, including air scrubber sludge, likely containing fluoride compounds. The ground water and percolation ponds at the site are contaminated with cyanide and fluoride, as well as other metals.

Potential Impacts on Surrounding Community/Environment:

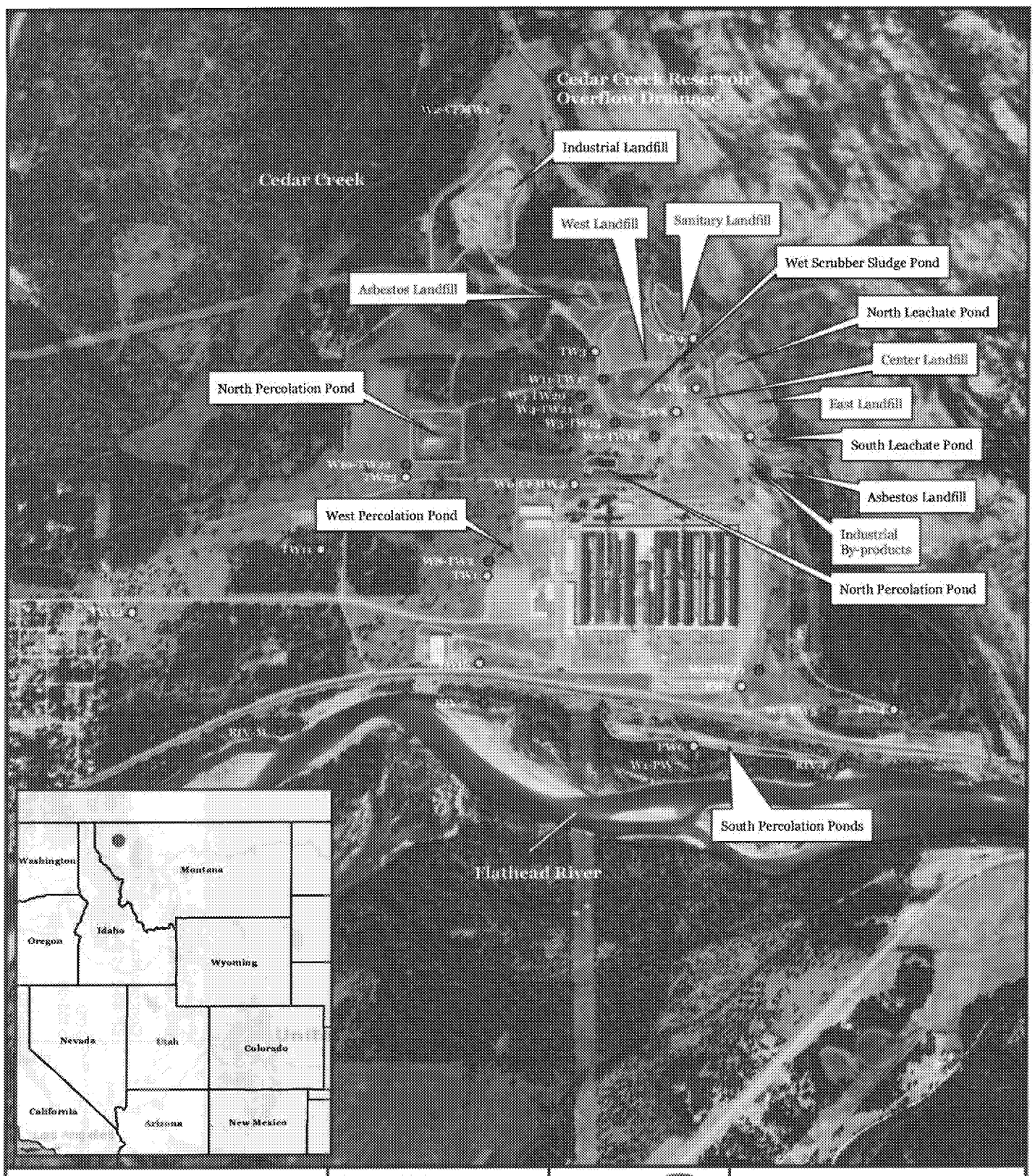
Contaminants have been released into ground water beneath the site, as well as the Flathead River and Cedar Creek (both located directly adjacent to the site). Cyanide has been detected in two nearby residential wells. Other homes within the same neighborhood use domestic wells for their water source which may be at risk. Cyanide and metals, including fluoride and manganese, have migrated from the site and have been detected in the Flathead River. The Flathead River is a fishery that supports a variety of fish, including the federally-designated threatened bull trout, the federally-designated sensitive westslope cutthroat trout and other species that are harvested for human consumption.

Response Activities (to date):

The site owner, Columbia Falls Aluminum Company, has begun a Remedial Investigation at the site, pursuant to an Administrative Order on Consent with EPA. Ongoing site characterization includes soil, surface water and sediment sampling and installation of 44 ground water monitoring wells for future sampling. Anticipated site response cost is $20 - $50 million.

[The description of the site (release) is based on information available at the time the site was evaluated for listing on the NPL. The description may change as additional information is gathered on the sources and extent of contamination.]

For more information about the hazardous substances identified in this narrative summary, including general information regarding the effects of exposure to these substances on human health, please see the Agency for Toxic Substances and Disease Registry (ATSDR) ToxFAQs. ATSDR ToxFAQs can be found on the Internet at http://www.atsdr.cdc.gov/toxfaqs/index.asp or by telephone at 1-800-CDC-INFO or 1-800-232-4636.



Legend

- Groundwater Monitoring Wells
- MPDES Permit Surface Water Monitoring Locations
- MPDES Permit Groundwater Monitoring Wells
- Streams and Drainages
- Site Feature Boundary

0 0.15 0.3 0.6 Miles

N

Prepared for:
U.S. EPA Region 8

Contract No.:
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1305-04

DCN:
W0004.1A.00115

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FIGURE 2
SITE FEATURES MAP
COLUMBIA FALLS ALUMINUM COMPANY
COLUMBIA FALLS, MONTANA

Date: 2/17/2014