



Brief History of Mining Activity

- q 1918. Copper mining activity began as the Empire Nevada Mine.
- q 1952 77. Anaconda copper mining operations on BLM and private land. Atlantic Richfield Company acquires Anaconda but ceased mining operations in 1978.
- q 1989. Arimetco acquires the private property and conducts mining and re-mining on-site using heap leach pads.
- q 2000. Arimetco abandons the site in bankruptcy.

Oversight of Environmental Clean-up

- q 2000. NDEP takes immediate action to manage heap leach fluids and abandoned chemicals.
- q 2002-2004. EPA, NDEP and BLM regulate site issues jointly under an MOA and agreement with Atlantic Richfield Co.
- q 2004. NDEP requested EPA to act as lead agency.
- q 2005. EPA issues Unilateral Order to Atlantic Richfield Co. under CERCLA 106 authority (Superfund). Site divided into 8 Operable Units.

CERCLA (Superfund) Overview

Superfund program has two components:

- q Emergency Response/Removal Action Program
- § Short-term, immediate hazards
- § Limited funding, NPL listing not needed

q Remedial Program

- § Detailed investigations
- § Analysis of alternatives
- § Long-term remedy selection
 § NPL listing required if remedy is fund financed
- § 10% State cost share if fund financed

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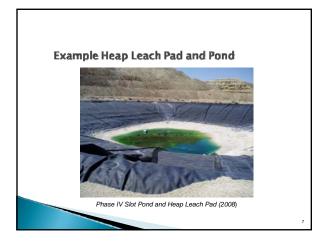
Responsibility for Investigation/Clean-up

EPA:

OU8 Arimetco heaps/fluids

Atlantic Richfield Co.: OU1 Site-wide Groundwater OU2 Pit Iake OU3 Process areas OU4 Evap. Ponds/sulfide tailings OU5 Waste rock areas OU6 Oxide tailings OU7 Wabuska drain







Interim Site Work Completed

q NDEP Activities

§ Pumpback well system, Arimetco fluids management, "red dust" capping, drum removal, electro winning fluids removal

q EPA Activities

§ Radiological assessments, PCB transformer removal, fugitive dust source capping, closure of Arimetco ponds and construction of new pond, demolition of Anaconda administration, Arimetco Remedial Investigation/Feasibility Study

q Atlantic Richfield Co. Activities

§ Evaporation ponds capping, removal of radiological threats in Anaconda process areas, O&M of Arimetco fluids management, removal of transite pipe and electrical hazards

Focus of current site investigations

Atlantic Richfield Co.:

- OUI Site-wide Groundwater 265 monitoring wells installed.
- Off-site contamination with Uranium has been shown.
- Domestic well monitoring program includes 163 wells.
- a Bottled water available to
- homes with uranium >25 micrograms/liter.
- irrigation wells rear the site taken out of service in 2009.

<u>EPA</u>

- OU8 Arimetco Heaps/fluids ARC responsible for fluids OAM, repairs needed.
- 4 acre evaporation pond built for finids, filling with solids
- Feasibility study completed in 2012 comparing alternative remedies.
- Cost of closure of heaps and long-term management of fluids estimated at \$56 million.



- Arimetco property in April 2011, initiated exploration activity.
- q Protected from CERCLA liability as long as "reasonable steps" taken to prevent releases
- q Re-mining would likely involve new ore, but may also include re-processing of some tailings, heaps and waste rock.
- q Reclamation of heaps and tailings may not make sense if material is to be re-processed.

Potential for Re-mining

- q NDEP and EPA negotiated with Atlantic Richfield Co. and SPS to voluntarily fund needed improvements to the fluid management system.
- q Agreement recently finalized, work is underway to:
- § Re-line a pond and repair perimeter drains; and
- $\$ Study solids management options implement measures to provide at least 5 years of capacity.
- q Action on EPA Feasibility Study placed on hold pending remining evaluation.
- q Atlantic Richfield Groundwater studies continue (OU1)

Should the site be listed on the NPL?

In general:

- § Cooperative efforts are more efficient.
- § Use of enforcement authority has also been effective.
- § NPL listing is an option of last resort.

At the Anaconda-Yerington site:

- § Critical site issues are being addressed, e.g. groundwater, fluids management.
- § Reclamation of Arimetco heaps could conflict with re-mining.
 § A reasonable period of time (3-5 yrs) is needed to verify mineral reserves and attract investment.

Summary

- Atlantic Richfield Co. remains responsible for investigation and cleanup of the site, except for Arimetco heap leach pads.
- Gignificant progress has been made in investigating and addressing environmental concerns and work is on-going.
- Recent voluntary agreements with ARC and SPS fund improvements to fluid management to provide 5yrs+ capacity.
- q These improvements allow time for mineral reserves to be proven and potential re-mining scenarios to be evaluated.