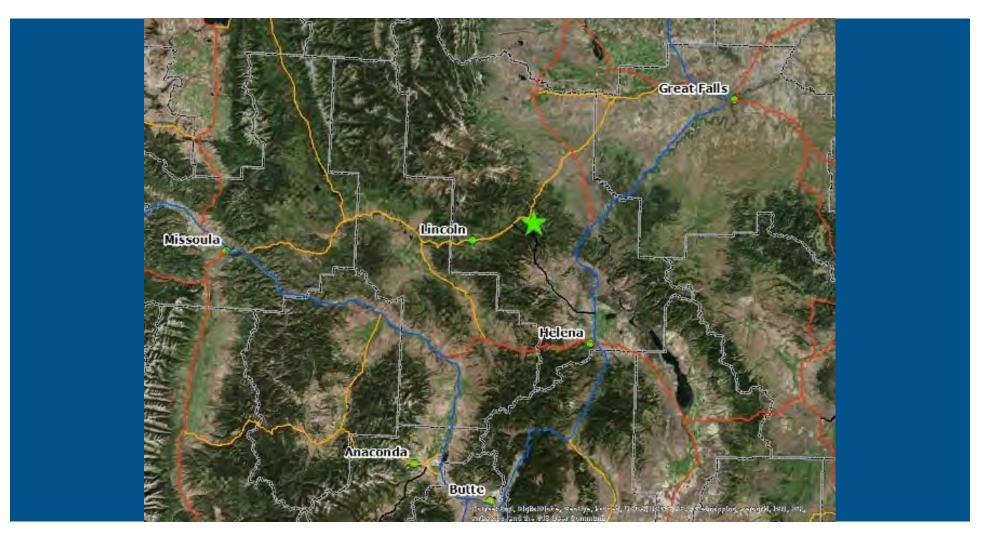
Upper Blackfoot Mining Complex a.k.a. The Mike Horse









UBMC History



RECORD COLD SPOT
THE COLDEST OFFICIAL TEMPERATURE
EVER RECORDED IN THE CONTINENTAL
UNITED STATES OCCURRED AT A MINING
CAMP NEAR HERE TANUARY 20, 1954
WHEN THE TEMPERATURE DROPPED TO
TO DEGREES BELOW ZERO.

Expansion in the 1940s – WWII lead and zinc for paint and ammunitions









1975 Flood Event

Approximately 200,000 cubic yards of tailings from the impoundment were washed down the valley in this single event.









UBMC Impacts

Cleanup Standards for Water vs 2014 Sample

<u>Metal</u> <u>Std.</u> <u>2014</u>

Arsenic .01 <0.003

Cadmium .0001 .011

Copper .0029 .017

Lead .0006 .0077

Manganese .43 .005

Zinc **.037** 2.57

All results are in parts per million Standards in **bold** are from DEQ-7 2014 sample is from Mike Horse Creek













UBMC Funding/Ownership

Settlement Funding

\$8M - ARCO

\$8M - ASARCO

\$23M – ASARCO Unsecured claims \$39M Total – Jointly held by DEQ

and DOJ-NRDP

Of the \$39M settlement, \$1M was allocated to USFS for oversight of cleanup and restoration on NFS lands

\$10M – ASARCO for water treatment and management of former ASARCO lands, held by a trust set up for the benefit of the people of Montana and the United States









UBMC Partnerships and Stakeholders



Lincoln Chamber of Commerce
Upper Blackfoot Valley Community Council





UBMC Contacts

Department of Environmental Quality David Bowers - Project Officer dbowers@mt.gov, (406) 444-6335 Shellie Haaland - Construction Manager shaaland@mt.gov, (406) 431-1401

Department of Justice Natural Resource Damage Program Beau Downing – Restoration Project Officer beaudowning@mt.gov, (406) 444-0291

US Forest Service

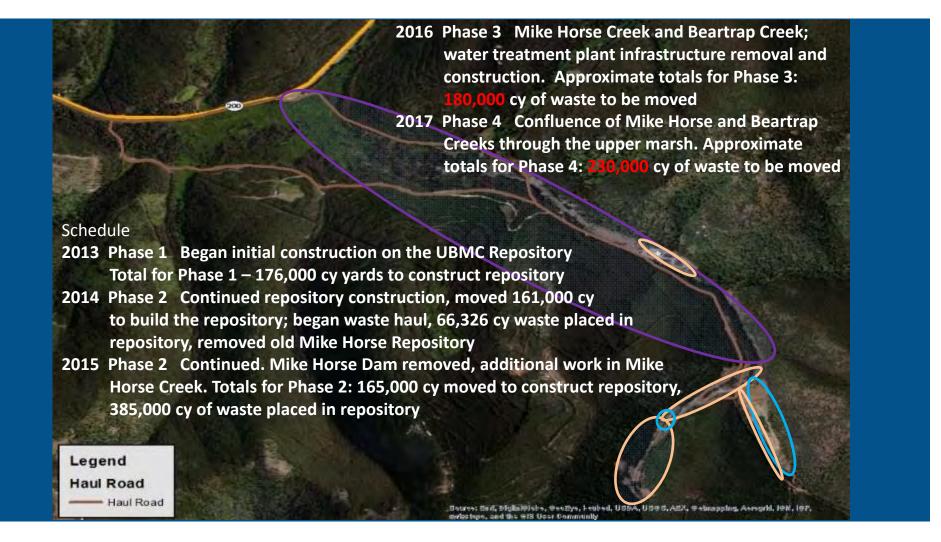
Steve Opp – On-Scene Coordinator j.opp@fs.fed.us, (406) 495-3716 Reid Stovall – Forest Engineer reidstovall@fs.fed.us, (406) 495-3766







UBMC Construction Phases

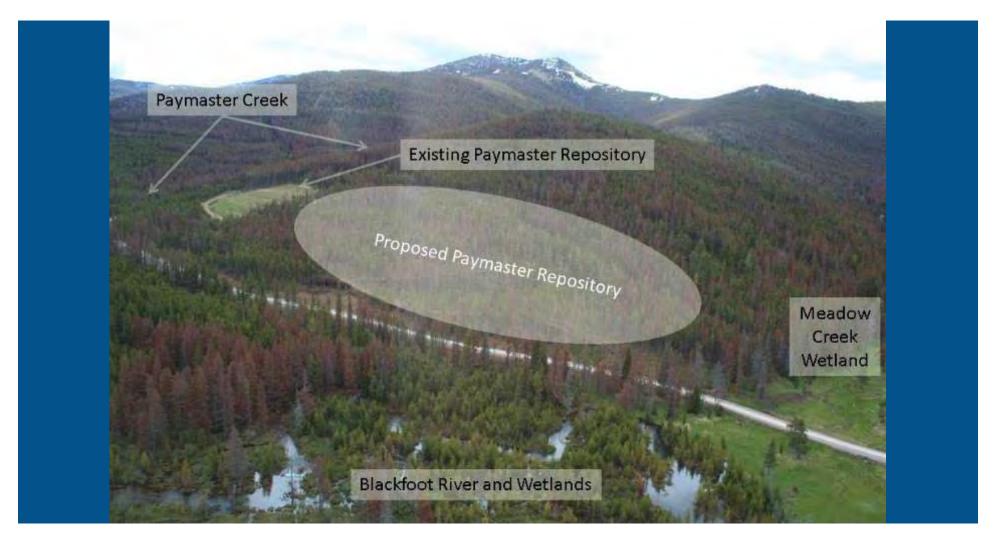








UBMC Proposed Paymaster Repository

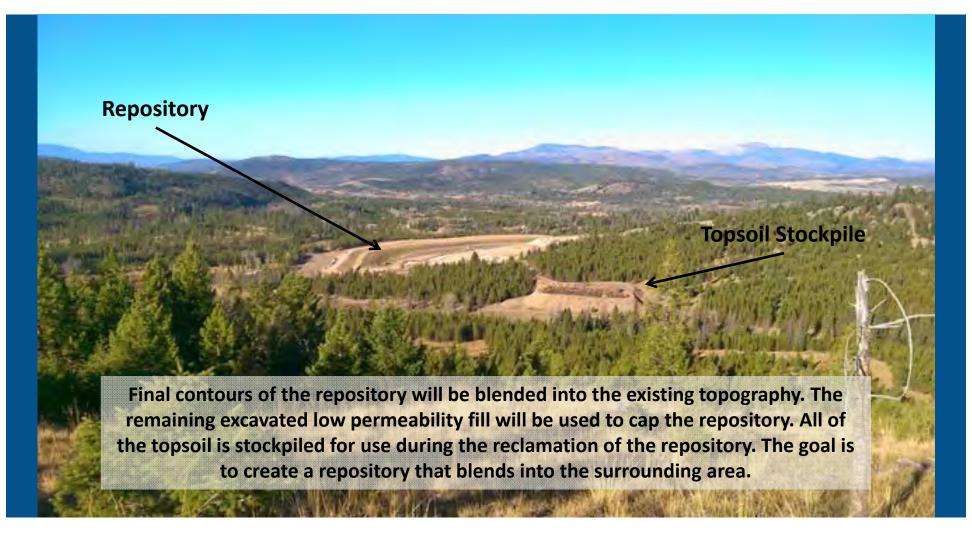








UBMC Repository









UBMC Repository









UBMC Repository Floor Construction









UBMC Repository Floor Construction









UBMC Repository Floor Construction and Tailings Placement









UBMC Repository









Impoundment Removals









Old Mike Horse Repository









Mystery Pipe









Blue Goo









Slides/Unstable Soils



Video:

moving clockwise, you can see the initial slide at 12:54, the second slide at 1:27, and continued cracking/cleaving along the edge of the wall at 1:31. The long stick excavator had been parked where the second slide occurred, and you can see the road that had been used by the haul prior to the slide. Luckily, the cracks were noticed and all equipment and personnel were moved away from the edge when these slides occurred.







Long Stick/Excavation Lifts









Labor Day Rains









Saturated Sands









Saturated Sand









Success!!!









UBMC Restoration









UBMC Restoration









UBMC End of Season









Public Participation







UBMC Tours









UBMC Tours









UBMC Paymaster Creek









UBMC Paymaster Creek









UBMC Iron Fen









UBMC Forested Emergent Wetland









UBMC Marsh Fen-Forested Emergent Wetland Interface

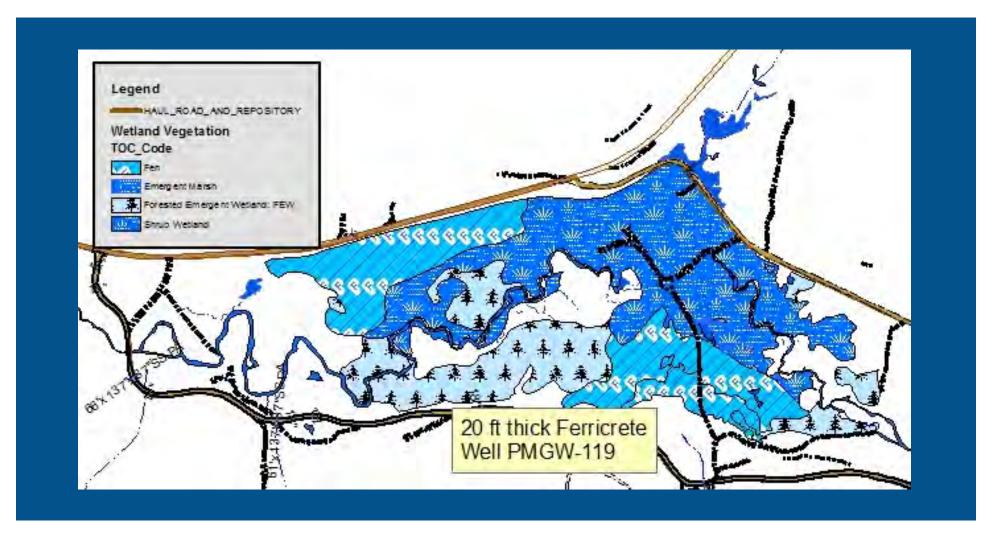








UBMC Title









Questions?

For More Information:

Search: ubmc virtual tour montana http://deq.mt.gov/Land/statesuperfund/ubmc/virtour

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