1885025

Mountain Pride 319 Project

By Trout Unlimited

Mountain Pride Mine

- Located at the upper watershed of Illinois Gulch, the Mountain Pride produced gold and lead from approximately 1897 to 1904.
- Flooding, lack of water at the mill in the winter months and heavy snowfalls were some of the reasons for the demise of the Mountain Pride Mine.
- Historic photographs show that a concentrate mill operated at the present-day site, where much of the historic equipment including the boilers remain in the drainage.

Current conditions at the Mountain Pride

Mountain Pride Mine

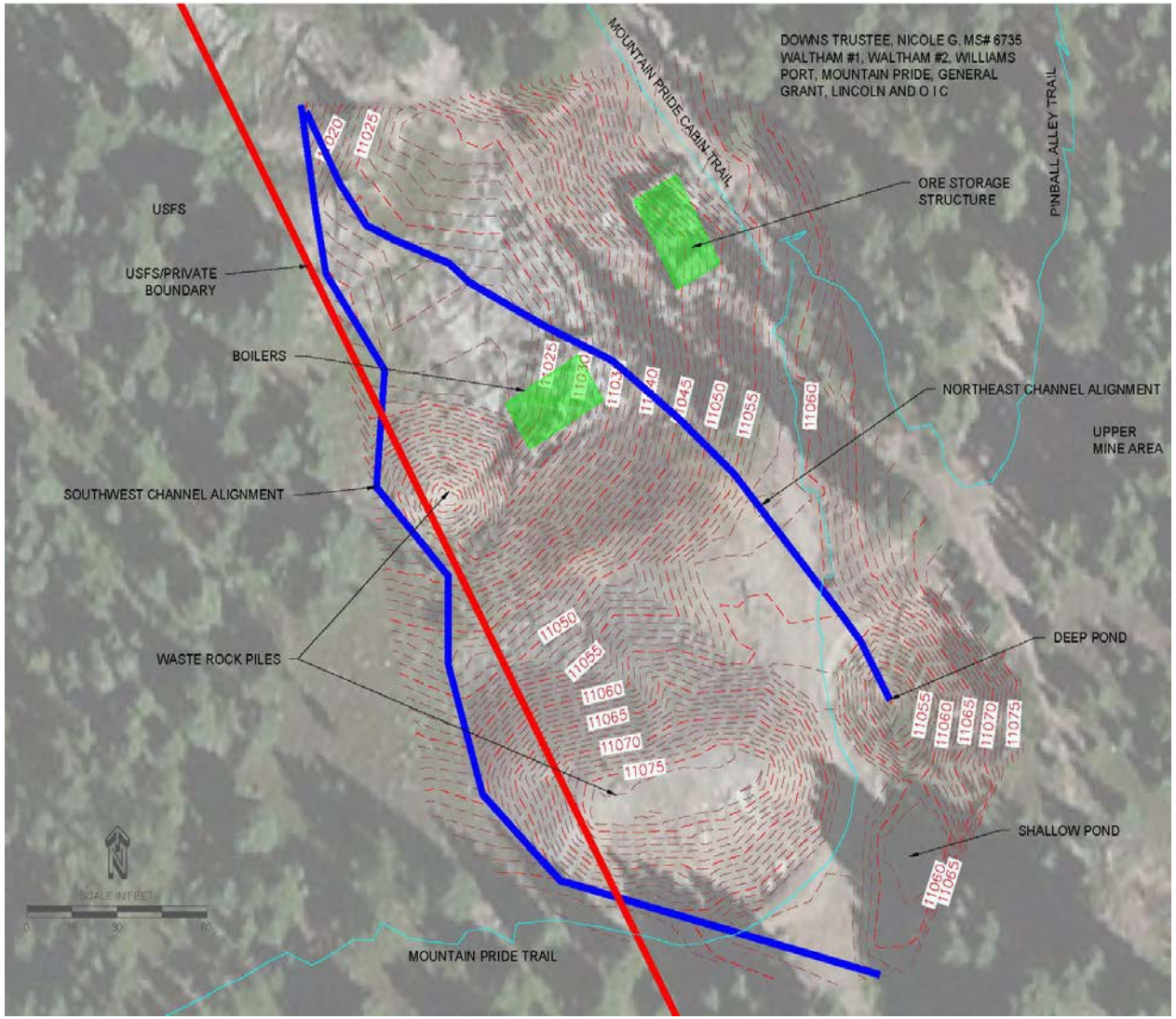
- During 2014 surface water sampling, a 0.14 lb/day difference in zinc loading rate was observed between upstream (OP-04) and downstream (OP-03) sites. This rate equates to a multiplication factor of 10.4 times the zinc load of the upstream input because of the Mountain Pride Mine.

Site	Flow (cfs)	Analyte	Concentration (µg/L)	Loading (lbs/day)
OP-04 – US of Mountain Pride	0.27	Cd	ND	ND
OP-04 – US of Mountain Pride	0.27	Zn	10.200	0.014863
OP-04 – US of Mountain Pride	0.27	Pb	ND	ND
OP-03 – DS of Mountain Pride	0.421	Cd	0.374	0.000850
OP-03 – DS of Mountain Pride	0.421	Zn	68.000	0.154504
OP-03 – DS of Mountain Pride	0.421	Pb	2.890	0.006566

- July 2014 XRF testing across the site revealed high concentrations of lead across the site. Additionally, some of the highest concentrations of zinc and copper were found adjacent to the Illinois Gulch stream channel during the 2014 XRF data collection effort.

Mountain Pride Mine

- Preferred Alternative Includes:
  - Upgrading the access route to the site
  - Backfilling 2 feet of the deep pond and stabilizing the side slope around the deep pond
  - Cutting an approximately 1.5:1 (H:V) lined channel across the flat waste rock area approximately 70 feet extending the channel downslope on the steeper portion of the waste rock pile adjacent to the ore loadout structure
  - Removing and preserving the dilapidated wood and boilers associated with the historical concentration mill and routing the channel through this area and reconnecting with the existing channel downslope.
  - Revegetation will take place where slope conditions and soils allow, as well as within and immediately adjacent to the Illinois Gulch diversion.
  - Rerouting the bike paths that run across private property
  - Excavation of approximately 320 CY of waste rock to maintain grade with the bottom of the deep pond



Questions?