

Appendix C: Summary of Reclamation Plans for Individual Facilities and Equipment at Butte Highlands Mine

Table C-1. Summary of Reclamation Plans for Individual Facilities and Equipment at Butte Highlands Mine.

Item or Facility	Description	Reclamation Method	Status During Reclamation Phase	
			Temporary Closure	Final Closure
Underground Mine and Pad Area				
Main Access Adit Portal	16' high x 15' wide	Cemented rock fill, cement plug, or locking gates/air doors	Reclaimed (with locking gates)	Reclaimed
Secondary (Ventilation) Adit Portal	16' high x 15' wide			
Laydown/Yard Area	Flat graded area 2.7 acres during exploration, 3.2 acres at full build out	Minor regrading and scarify, spread top soil 12" deep, and reseed.	Reclaimed	Reclaimed
250,000 Ton Waste Rock Dump				
Sediment Ponds				
Sediment Pond	Approximately 120' x 270' rectangular pond, lined with 80 mil liner	Cut and bury liner, backfilled with Recycle Pond dike material.	Retained	Reclaimed
Recycle Pond	Approximately 120' x 150' triangular pond lined with 80 mil liner.	Cut and bury liner, push embankments into Sediment Pond	Retained	Reclaimed
Culvert	Approximately 60' culvert (8" diameter) connecting Sediment Pond to Recycle Pond	Removal	Retained	Reclaimed
Fencing	1,350 feet of "hog wire" fencing around ponds, 8' tall.	Removal	Retained	Reclaimed
Soil Stockpiles				
Sediment Pond Spoil/Subsoil Stockpile	12,000 cubic yards	Used for growth media	Reclaimed	Reclaimed
Topsoil Stockpile	35,600 cubic yards	Used for growth media	Reclaimed	Reclaimed
Shotcrete and Slurry Plants				
Mixing Pit Area	35' x 35' x 5' unlined pit	Backfill and revegetate	Reclaimed	Reclaimed
Shotcrete Plant	8' x 16'	Removal	Reclaimed	Reclaimed
Slurry Plant	8' x 20' conex container	Removal	Reclaimed	Reclaimed
Crushing and Screening Plant	Portable equipment	Removal	Reclaimed	Reclaimed

Item or Facility	Description	Reclamation Method	Status During Reclamation Phase	
			Temporary Closure	Final Closure
Power Generation				
Compressor	Skid/trailer mounted equipment	Removal	Reclaimed	Reclaimed
546 HP Compressor	Skid/trailer mounted equipment	Removal	Reclaimed	Reclaimed
563 Compressor	Skid/trailer mounted equipment	Removal	Reclaimed	Reclaimed
Transformer	Skid/trailer mounted equipment	Removal	Reclaimed	Reclaimed
Panel	Skid/trailer mounted equipment	Removal	Reclaimed	Reclaimed
Structures and Associated Infrastructure				
Lamp House	8' x 20' conex container	Removal	Reclaimed	Reclaimed
Wash/Fuel Pad	Quonset tent on 50' x 75' concrete foundation 8" thickness	Tent removed, slab broken and buried (12" cover-soil)	Retained	Reclaimed
Surface Shop	Quonset tent on 50' x 75' concrete foundation 8" thickness	Tent removed, slab broken and buried (12" cover-soil)	Retained	Reclaimed
Office	Double-wide trailer on level ground at laydown area (no slab)	Removal	Retained	Reclaimed
Dry Building	Double-wide trailer on level ground at laydown area (no slab)	Removal	Retained	Reclaimed
Core Shed	25' x 45' metal shed on a foundation 6" thickness	Retained in place on private land	Retained	Retained
Septic Tanks	Two concrete underground septic tanks ~2,200 gallons each	Retained in place on private land	Retained	Retained
Leach Field	30' x 100' leach field	Retained in place on private land	Retained	Retained
Potable Water Well	Well located about 150' east of Wash/Fuel Pad	Retained in place on private land	Retained	Retained
Fencing and Gate	Approximately 4,000' of fence and steel gate	Retained in place on private land	Retained	Retained
Run-On and Run-Off Control				
Portal Pad Run-On Diversion	Approximately 1,000' ditch on south east of office area 4' wide by 18" deep	Regraded and revegetated once site is stabilized	Retained	Reclaimed

Item or Facility	Description	Reclamation Method	Status During Reclamation Phase	
			Temporary Closure	Final Closure
Portal Pad Run-Off Diversion	Approximately 900' ditch and collection ponds west of Laydown/Waste Rock area	Regraded and revegetated once site is stabilized	Retained	Reclaimed
LAD 2 Diversion Ditches	Approximately 1,300' of ditches (two ditches) located north and east of LAD 2	Regraded and revegetated once site is stabilized	Retained	Reclaimed
Culverts	One approximately 60' culvert and one approximately 100' culvert (15" diameter) emptying into Sediment Pond	Removal	Retained	Reclaimed
Land Application Discharge Areas and MPDES Discharge Pipes				
Culvert (leading to Pump Vault)	Two approximately 135' culverts 8" diameter between Recycle Pond and LAD Pump Vault	Plug and leave buried in place	Retained	Reclaimed
Pump Vault	10' diameter by 14'tall steel vault	Removal	Retained	Reclaimed
LAD 1 Mainline (6" HDPE)	Approximately 650' of HDPE piping leading to 4" Sprinkler System (40' buried, the rest is on surface)	Removal	Retained	Reclaimed
LAD 1 Sprinkler System (4" HDPE) and sprinkler heads	Approximately 2,000' of 6" and 4" HDPE piping on surface	Removal	Retained	Reclaimed
LAD 2 Mainline	Approximately 2,850' of buried 6" HDPE	Cut and plug ends, remains buried in place	Retained	Reclaimed
LAD 2 Valve Vault	10' diam by 14' tall steel	Removal	Retained	Reclaimed
LAD 2 Laterals	Approximately 18,700' of buried 2" HDPE	Remains buried in place	Retained	Reclaimed
LAD 4 Mainline	Approximately 2,260' of buried 8.5" steel pipe	Cut and plug ends, remains buried in place	Retained	Reclaimed
LAD 4 Pump House	20' x 20' steel building on 4' concrete slab	Remove	Retained	Reclaimed
LAD 4 Lateral	Approximately 960' of buried 3.5" steel pipe	Remains buried in place	Retained	Reclaimed
LAD 4 Snow Guns and Pads	Seven snow guns each located on separate 4' diameter x 5" deep concrete foundations	Snow guns removed and concrete foundations buried in place	Retained	Reclaimed
Reverse Osmosis System	Trailer mounted equipment	Removal	Reclaimed	Reclaimed

Item or Facility	Description	Reclamation Method	Status During Reclamation Phase	
			Temporary Closure	Final Closure
MPDES Pipeline	Approximately 9500' of buried 4" and 6" HDPE	Cut and plug ends, remains buried in place	Retained	Reclaimed
Roads				
Main Access Road	Road from north side of Camp Creek Road to office area	Retained in place on private land	Retained	Retained
Access Roads to LAD 1 and 2	Approximately 2,000' of road from south side of Camp Creek Road to LAD 1 and LAD 2 areas	Lightly scarified and revegetated/reclaimed as 2-track road	Retained	Reclaimed
Exploration Drill Roads	Approximately 5,700' of road	Regraded to original contour and revegetated	Retained	Reclaimed
Private Ore Haulage Road	Approximately 20,000' (10 acres) of road	Regraded to original contour and revegetated	Retained	Reclaimed
Wells and Piezometers				
LAD Monitoring Wells (3)	8" diameter and 65' deep, downgradient of LAD 1, 2, 3, and 4	Plugged and abandoned in accordance with applicable laws	Retained	Reclaimed
Exploration Bore Hole (1)	12" diameter boring 540 feet deep drilled from surface into mine workings	Plugged and abandoned in accordance with applicable laws	Reclaimed	Reclaimed
Hydrology Testing Wells (5)	8" diameter and approximately 1,000' deep in vicinity of mine workings	Plugged and abandoned in accordance with applicable laws	Retained	Reclaimed
Piezometers (14)	4" diameter and 5' deep PVC at end of LAD 2 laterals	Remove	Retained	Reclaimed
Ore Transfer Facility				
Ore Transfer Building	100' x 120' covered structure	Dismantle and remove. Break and bury concrete foundation/pad	Retained	Reclaimed
Access Road	Appx 215 lineal feet of 40-foot wide access road leading to and from the Ore Transfer building	Regraded to original contour and revegetated	Retained	Reclaimed
Soil Stockpile Area	100' x 120' area for topsoil and subsoil stockpiles	Use for reclamation and revegetate footprint	Retained	Reclaimed

Page intentionally left blank