Figure 1
Pennsylvania Mine and Cinnamon Gulch Site Location
15-Mile Downstream Limits, Fish Shocking Results and Drinking Water Intakes
Figure 2
Pennsylvania Mine and Cinnamon Gulch Site Features
and PPE to Surface Water Pathway
Figure 3
Cinnamon Gulch Mine Waste Pile Samples
Total Arsenic Sample Concentrations
All Concentrations in mg/kg

Legend
- Cinnamon Gulch Boundary
- Mine Waste Pile Samples - Total Metals

Arsenic - mg/kg
- <70
- 70 - 100
- 100 - 340
- 340 - 1,000
- 1,000 - 1,720

Arsenic Exposure Standards
- VBI70 Residential/Commercial Cleanup Standard - 70 mg/kg
- BLM Open Space Criteria - 100 mg/kg
- Leadville Open Space Criteria - 340 mg/kg
Figure 4
Cinnamon Gulch Mine Waste Pile Samples
Total Lead Sample Concentrations
All Concentrations in mg/kg

Legend
Mine Waste Pile Samples - Total Metals
Lead - mg/kg
- <400
- 400 - 800
- 800 - 2,000
- 2,000 - 3,500
- 3,500 - 17,000
- 17,000 - 46,000
- 46,000 - 83,500

Lead Exposure Standards
CDPHE Commercial Cleanup value - 800 mg/kg
BLM Open Space Criteria - 2,000 mg/kg
Leadville NPL Residential/Commercial Criteria - 3,500 mg/kg
Leadville Open Space Criteria - 17,000 mg/kg
Figure 5
Cinnamon Gulch Mine Waste Pile Samples
SPLP Cadmium Sample Concentrations
All Concentrations in ug/l

Legend
Mine Waste Pile Soils - SPLP Results - ug/l
Cadmium
- <2.0
- 2.0 - 5.0
- 5.0 - 10.0
- 10.0 - 17.0
- 17.0 - 27.0

Cadmium SPLP Leachability
DW Standard - 5.0 ug/l
Acute Env. - 2.0 ug/l
Chronic Env. - 0.25 ug/l
Figure 6
Cinnamon Gulch Mine Waste Pile Samples
SPLP Copper Sample Concentrations
All Concentrations in ug/l

Legend
Mine Waste Pile Soils - SPLP Results - ug/l

Copper
- <9.0
- 9.0 - 13.0
- 13.0 - 50.0
- 50.0 - 750
- 750 - 1,490

Copper SPLP Leachability
DW Standard - 50 ug/l
Acute Env. - 13.0 ug/l
Chronic Env. - 9.0 ug/l

Cinnamon Gulch Boundary
Figure 7
Cinnamon Gulch Mine Waste Pile Samples
SPLP Manganese Sample Concentrations
All Concentrations in ug/l