Gold King Mine Release Incident

On-Site Safety Briefing
ICP Durango, CO
Overview

• Weather
• Altitude
• Wildlife
• Site Hazards
• Driving Safety
• Water Sampling
• Heavy Equipment
• Mine Operations
• Confined Space
• PPE
• OEP
• Safety Policy
• Health & Wellness
• Keeping You Safe!
Weather

- Cold nights can be below freezing in some areas
- Warm daytime temperatures of 70-80 degrees F
- Wearing several layers of clothing provides better insulation in cold
- Shed layers as daytime temps warm up
- Storms can move in quickly and unexpectedly, especially in the mountains
- Expect Rain, Snow, Sleet, Hail, Lightening
Snow, Sleet and Hail can be expected near the Mine
Altitude Sickness (>11,000 ft. at mine) – it may take several days to acclimate!

- Headache
- Loss of appetite
- Stomach ache, vomiting
- Loss of energy
- Insomnia
- Dizziness
Wildlife

- Bears
- Deer
- Elk
- Mountain Lions
- Snakes
- Insects
Bear Crossing Road
Elk Crossing
WATCH FOR ROCKS & WILDLIFE
Site Hazards

Driving, Driving, Driving!

- Narrow roads
- Steep grade
- No shoulder
- No guardrail
- Unpaved, unstable roads
- Falling rocks
- Wildlife crossing
Travel up to Mine Portal (Adit)
Travel from Durango to Silverton is over the Mountains on a steep, narrow highway with sharp curves, many areas without guard rails or shoulders.
Highway 550 – Silverton, CO
Driving Safety

• Increased traffic on roads due to tourists

• Expect rain, ice or snow on mountain roads

• Limit driving in evening after long work shift!

• Wildlife move at dawn, dusk & after dark along roads

• Mountain highways - steep, curves with no protection

• Narrow gravel or dirt Mine roads with uneven surfaces

• If you are uncomfortable driving – DON’T DRIVE!
Other Site Hazards:

• **Slips Trips and Falls**
  - Uneven and Unsteady ground

• **Heavy Equipment Operations**
  - Be alert, wear PPE!
  - Noise Hazard

• **Confined Space**
  - Mine Adit
Gravel Road from Silverton to Gladstone Staging Area

THIS ROAD IS SUBJECT TO SIGNIFICANT "AVALANCHE HAZARD"
NO REGULAR AVALANCHE CONTROL IS DONE ALONG THE ROAD
NO STOPPING, PARKING OR STANDING* IN OBVIOUS AVALANCHE AREAS
REGULAR SNOW REMOVAL HOURS ARE 5:00AM TO 5:00PM
THIS ROAD IS SUBJECT TO CLOSURE AT ANYTIME DEPENDING ON CONDITIONS
TRAVEL AT OWN RISK AND USE COMMON SENSE
THIS IS SAN JUAN COUNTY ROAD #110 TO GLADSTONE
Water Sampling – unstable rocks
Heavy Equipment

• Heavy equipment is being used near the mine

• Blind spots and wide swings are common so be vigilant and watchful of your surroundings

• Maintain eye contact with the operator

• Remember that they have the right of way!

• Follow direction of Safety Officer & Site Manager
Mine Operations

Treat and Sample Mine discharge at site
Stabilize and maintain mine road
Stabilize Mine Adit
Refine water treatment process
Prepare to manage water treatment sludge
Prepare to start repairs on waste dump
Mine Waste Lime Treatment
Mine Discharge Settlement Ponds
Mine Road Stabilization
Mine Portal (Adit) Stabilization
Mine Adit Interior Stabilization
Confined Space
All three of the following criteria must be present:

• 1) Large enough to completely enter and perform work
• 2) Entry Not Designed for Continuous Occupancy - Space unsuitable for occupancy under normal conditions without safety and health considerations.
• 3) Limited Access and Egress - Entry and exit difficult, hinders ability to escape.
REQUIRED Personal Protective Equipment (PPE)

• All workers and visitors MUST wear the following:
  Hard Hat
  Safety Vest
  Protective Eyewear
  Safety Footwear
Incident Safety Policy

• All workers and visitors are to attend a site safety briefing and follow the direction of the site OSC and Safety Officer in accordance with the Health & Safety Plan (HASP).

• PPE must be worn for field activities as required in the HASP and to visit the mine.

• All visitors to the mine must remain in the utility terrain vehicle (UTV) at all times.
Health & Wellness

• Injury & Illness reporting - to Safety Officer
• Medical Treatment
  - HASP, Medical Plan (206)
• Nutrition & Hydration (POPC)
• Stress Management (CISM)
  - Take a Day Off
  - Maintain Fitness (exercise)!
• Fatigue Prevention
  - long work shift, long drives, long duty tour
If it doesn’t Look Right,
If it doesn’t Feel Right,
If you don’t know ... STOP!

Don’t Proceed if you are Unsure.
Ask your Supervisor or Safety Officer?

Our Goal is to Keep You Safe!
Safety is EVERYONE’s Responsibility!
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