

## Lisbon Valley Mining District - Columbia Shaft (B818)

### ERRS Operations Plan and Work Order

**Operational Period 14:** January 16 2022 – January 22, 2023

Open and honest team discussions that involve EVERYONE are critical to understanding hazards, mitigating risks, preventing accidents, and ensuring a successful response.

#### Top Priority is Site Safety and Security

- Always watch out and protect yourself and the people around you from physical hazards and exposure to radioactive dust.
- Prevent contamination from spreading beyond footprints of waste piles.
- Conduct daily safety checks on equipment and general site conditions.
- Remove, mark or remedy hazards when you see them. Notify crew of all hazards.

#### Emergency Contacts:

- San Juan County Sheriff Dispatch - 435-587-2237 (911 if it is an emergency).
- San Juan County Fire Department - 435-587-3225 (911 if it is an emergency).
- Moab Regional Hospital - 435-719-3500 (450 Williams Way, Moab, Utah 84532)

#### Site Objectives

1. Regrade the waste pile and install erosion control features.
2. Restrict camping and access to the waste pile.

#### Deliverables

*Operations Periods are Mondays-Sundays. OSC will issue weekly Work Orders before the beginning of each Operations Period to include authorized activities and resources.*

- ER will conduct pre and post UAV flights that provide site topography and 30-second videos for public information.
- ER will deliver daily photos documenting progress and Site conditions to [mccomb.martin@epa.gov](mailto:mccomb.martin@epa.gov).
- ER shall provide a Progress Report at the end of each Operations Period including:
  - summary of activities accomplished.
  - deviations from the authorized activities and resources.
  - summary of equipment/personnel utilized. The equipment utilization summary should include equipment that is working/available for use on each day.
- ER shall submit a 1900-55 RCMS Report at the end of each Operations Period.

#### Authorized Activities

- Drainage will be established from the bottom tier to the toe of the waste pile and may be armored in discrete locations with rock generated on-site.
- The waste rock pile and the waste rock repository will be graded to drain to the drainage channel.
- The waste pile will be regraded at a 3:1 slope, if possible, depending on the amount of waste excavated. At least 5 slope breaks that drain to the drainage ditch will be built into the slope, where feasible.
- Excavated waste rock will be transported to the top waste rock repository pile and against the rock face that was quarried when the mine was developed. ERRS will use a bulldozer to grade and compact the material against the rock face.
- The remaining waste material from the slope adjacent to the waste rock pile to the east along the access road will be removed and placed in the repository.

- ERRS will make efforts to preserve the vegetation at the toe of the slope, with special consideration to minimize the disturbance to the drainage channel along the road.
- The stockpiled topsoil will be spread over the disturbed area. Other revegetation efforts (i.e., hydroseeding) may be considered.
- The access road to the top of the waste rock pile will be closed with large boulders, ditches, and berms.
- Signage will be installed at the site as directed by EPA.
- All waste with potential radiation contamination will be buried in the waste pile and disposed of on-site.
- Final grading and clean-up tasks will be performed.
- Heavy equipment will be decontaminated prior to being removed from the site.
- The crew and all site materials/equipment will be demobilized from the site.

### Goals/Schedule

Work Day #	Date	Goals	Status
Day 1 & 2	11/21/2022, 11/28/22	Mobilization and site set-up	Complete
Day 3 - 15	11/29/22 -12/13/22	Excavate out the top bench	Complete
Day 4	11/30/22	Cover/close adit	Complete
Day 16 - 24	12/14/22 – 12/22/22	Excavate out the second bench	Complete
Day 25	12/23/22	Demobe for Holiday Break	Complete
Day 26	1/2/23	Remobe for Holiday Break	Complete
Day 27 & 28	1/3/23 - 1/4/23	Clean up grades on first two tiers	Complete
Day 29 - 36	1/5/23 – 1/14/23	Excavate out third bench	Complete
Day 31	1/7/22	Complete drainage channel installation	Complete
Day 37 - 40	1/16/23 – 1/19/23	Excavate out the final bench	Complete
Day 39	1/18/22	Complete adjacent slope excavation	
Day 41	1/20/23	Complete grading of the slope; block road	
Day 42	1/21/23	Decon machines; clean-up site	
Day 43	1/22/2023	Demobilization	

Seeding, hydro-mulch installation, UAV flight, and repairs will be conducted in the Spring.

### Authorized Resources

PERSONNEL	QUANTITY	COMMENTS
Response Manager	1	
Equipment Operator	2	
Truck Driver	1	May be used as Equipment Operator as necessary.
Laborer	1	May be used as Equipment Operator as necessary.
Field Accountant	1	
EQUIPMENT	QUANTITY	COMMENTS
Truck, P/U	3	Includes transportation costs. Track as pending costs through January 22nd and draw down as appropriate.
Decontamination Trailer	1	
Pressure Washer Trailer	1	
Generator	1	Water truck and pump are currently no on site, but may be needed for the decontamination of the equipment.
3" Water Pump	1	
Water Truck	1	

Excavator w/bucket	2	
Bulldozer	1	
Off-road haul truck	1	
Loader	1	
Fuel Tank	1	
Skidsteer	1	
Laser level	1	
Hoe Ram Attachment	1	

**Health and Safety Monitoring**

- Decontamination activities will be tested with the Ludlum device to determine level of radioactive dust in coveralls, boots, street clothes, respirator cartridges, etc.
- Dust levels in the air will be monitored with Dust Trackers provided by EPA. Location will be determined on-site and will likely include the area around the comms trailer and the area outside the decontamination area.

**Approvals:**

M McCal 1/13/23

**EPA On Scene Coordinator**

[Signature] 1/13/23

**ERRS Response Manager**