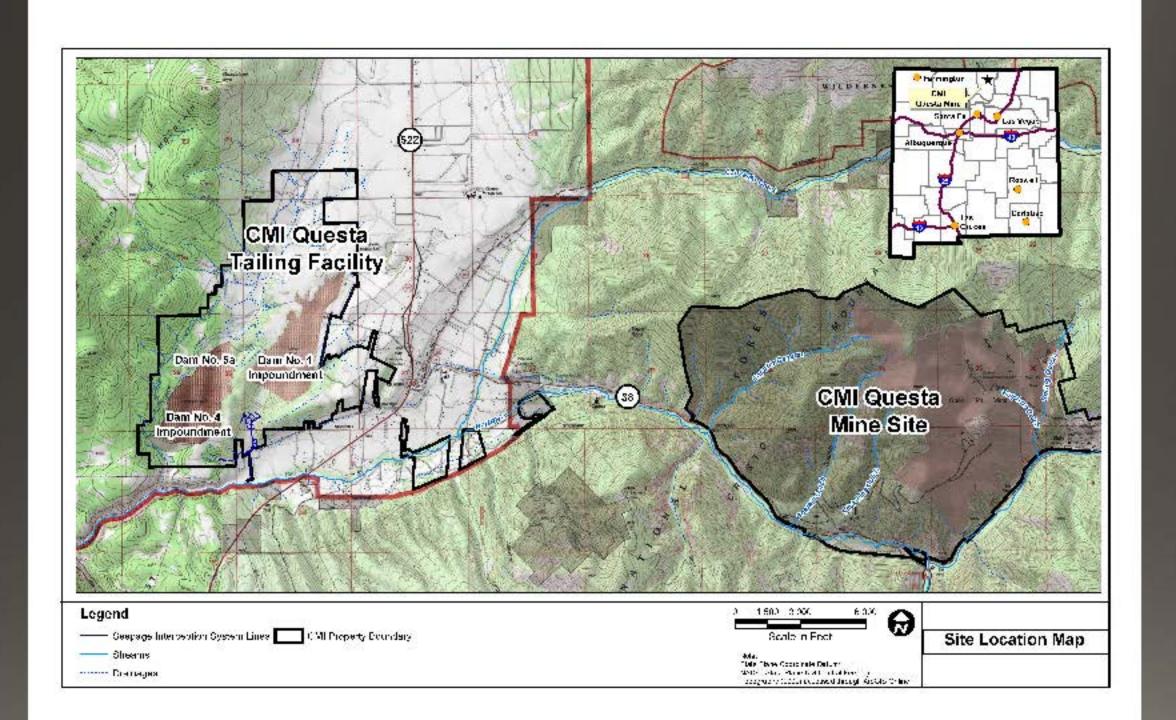


Agenda

- Welcome & Kickoff
- Facilitation Instructions
- Superfund Introductions & Activities
 - Site Background
 - Status of current work
 - Future Work
- Superfund Questions from the community





Background Information

1919–2014 Molybdenum mining & milling 1964–1983 Open pit mining June 2014 Mine permanently closed

- 300 million tons of waste rock
- 100 million tons of tailings



Superfund Remedy

- Governor of New
 Mexico requested that
 EPA place the Site on
 the NPL in 2000
- RI/FS: 2001 2010
- ROD: December 2010
- Five areas identified for remediation
- Total Remedy Cost: \$517M - \$883M
- Cleanup work being conducted under Administrative Settlement Agreements and Partial Consent Decree

Enforcement Instruments

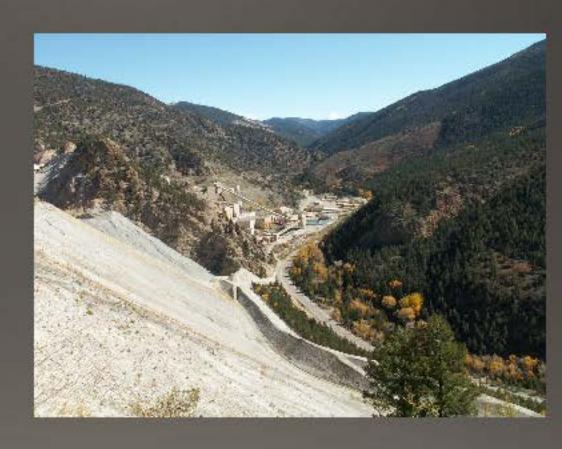
- Removal Administrative Order on Consent (AOC) March 2012
- Early Design AOC September 2012
 - First Amendment September 2014
 - Second Amendment November 2014
 - Third Amendment August 2016
 - Fourth Amendment Pending 2022
- Partial Consent Decree Entered May 1, 2017

Completed Activities Under AOCs

- Mill Area PCB Clean-up (Mill Area)
- Eagle Rock Lake (Eagle Rock Lake Area)
- Tailing Spills (Red River Riparian)
- Eastern Diversion Channel (Red River Riparian)
- Spring Gulch Cover Field Trials (Mine Site Area)
- Underground Mine Dewatering System (Mine Site Area)
- Technical Workgroup (Mine Site Area)
- Tailing Facility Grading Plan (Tailing Facility Area)
- Waste Rock Pile Regrade Pilot Project (Mine Site Area)
- Trailing Facility Groundwater Investigation (Tailing Facility Area)

Activities Under Partial Consent Decree

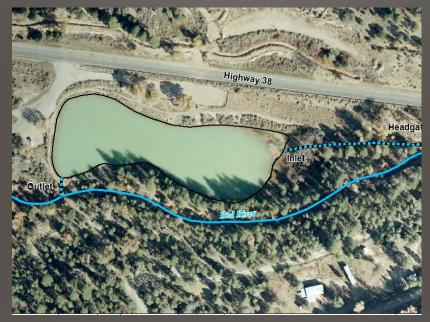
- Mine Site Area
 - Mine dewatering O&M
 - Groundwater extraction system
 - Water treatment plant O&M
 - Groundwater monitoring
- Tailing Facility Area
 - Cover demonstration pilot project
 - Replace seepage collection systems
 - Groundwater extraction system
 - Groundwater and surface water monitoring
 - Monitor and maintain tailing dams
- Eagle Rock Lake
 - O&M and monitoring



Early Actions



Tailing Spills Removal



Eagle Rock Lake Before Removal





Eagle Rock Lake After Removal

Early Design Actions



Underground Mine Dewatering System

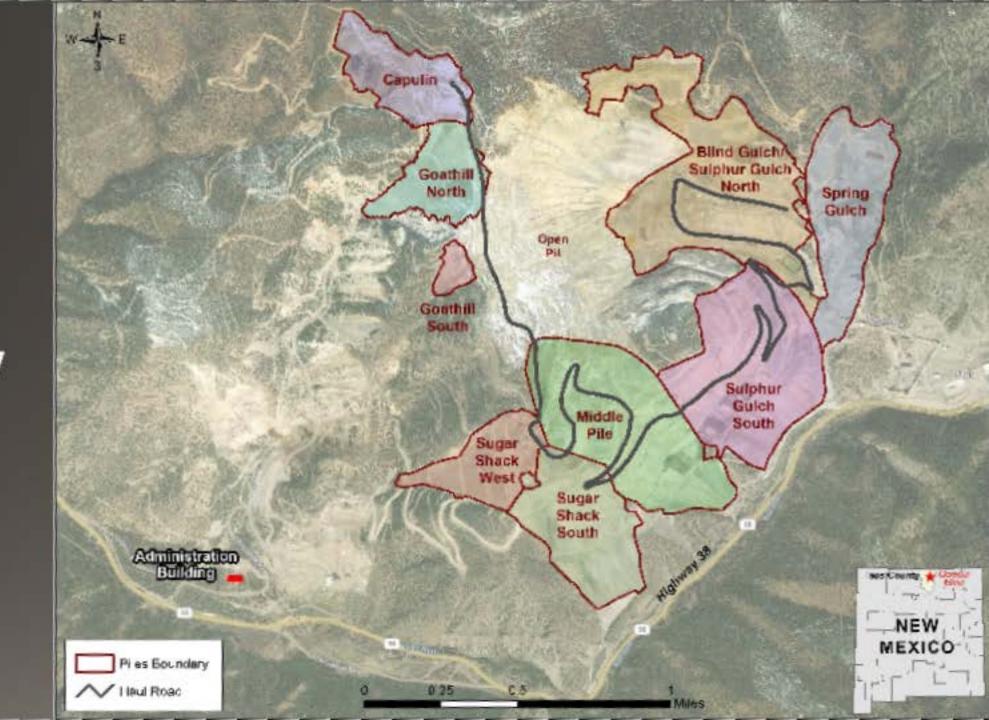


Spring Gulch Cover Field Trials



Waste Rock Pile Regrade Pilot Project

Rockpile Overview



Rockpile Regrade Pilot Project

- Reclamation of Capulin and Goat Hill North Waste Rock Piles
- Rock piles regraded to slopes with acceptable factor of safety
- 3-foot evapotranspiration cover
- Revegetation of cover
- Spring/Summer 2021 Start of construction
- Current Work:
 - ➤ Cut and Fill of Capulin Benches at Toe
 - ➤ Goat Hill North Grading and Material Removal
 - ➤ Began dozer push at Spring Gulch and top of Capulin; and
 - >Continue to haul in rip rap and aggregates



Drainage and Underdrain Work



Capulin & Goat Hill North

January 27, 2022





Capulin Waste Rock Pile East

January 27, 2022





Capulin Pushdown

January 27, 2022

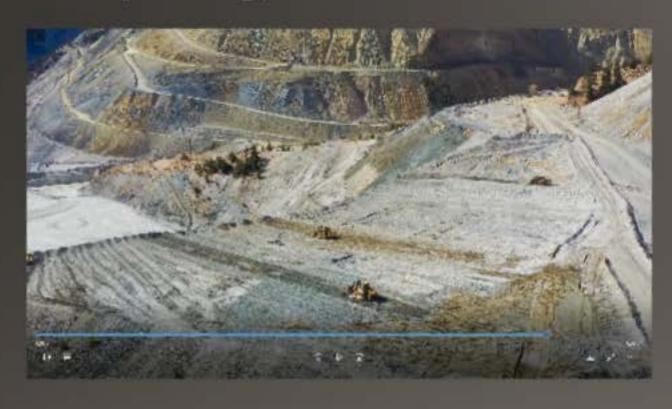




Goat Hill North Access Roads



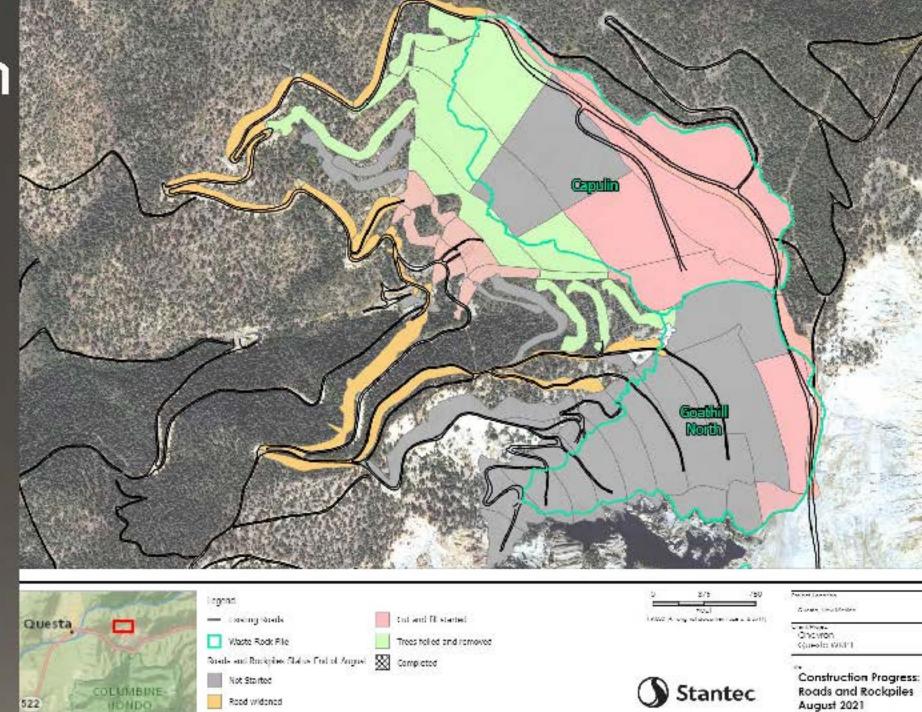
Spring Gulch Waste Rock Pile





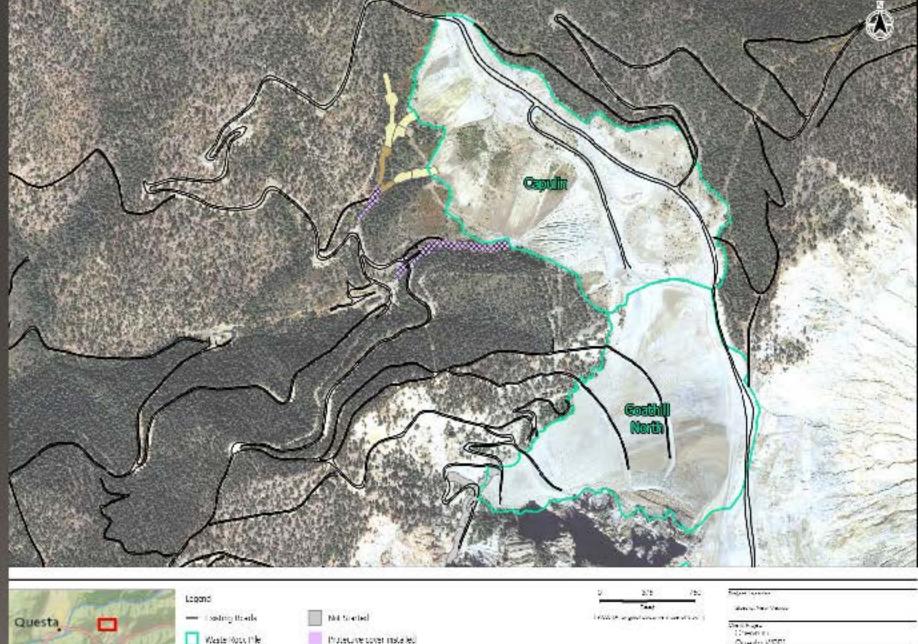
Construction Progress

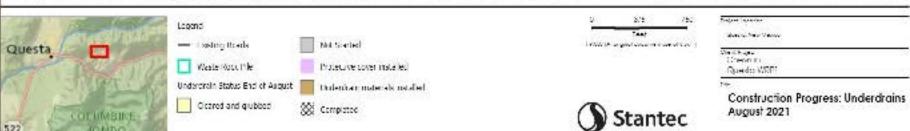
- Roads
- Cut and Fill



Construction Progress

Underdrain Work





Tailing Facility Cover Demonstration Pilot Project



Tailing Facility Vegetation Cover

- Determine whether a 2-foot cover system meets soil, groundwater and revegetation objectives
- Monitor effectiveness of cover system over 5 years
- Use test results to evaluate possible change to ROD requirement for a 3-foot cover



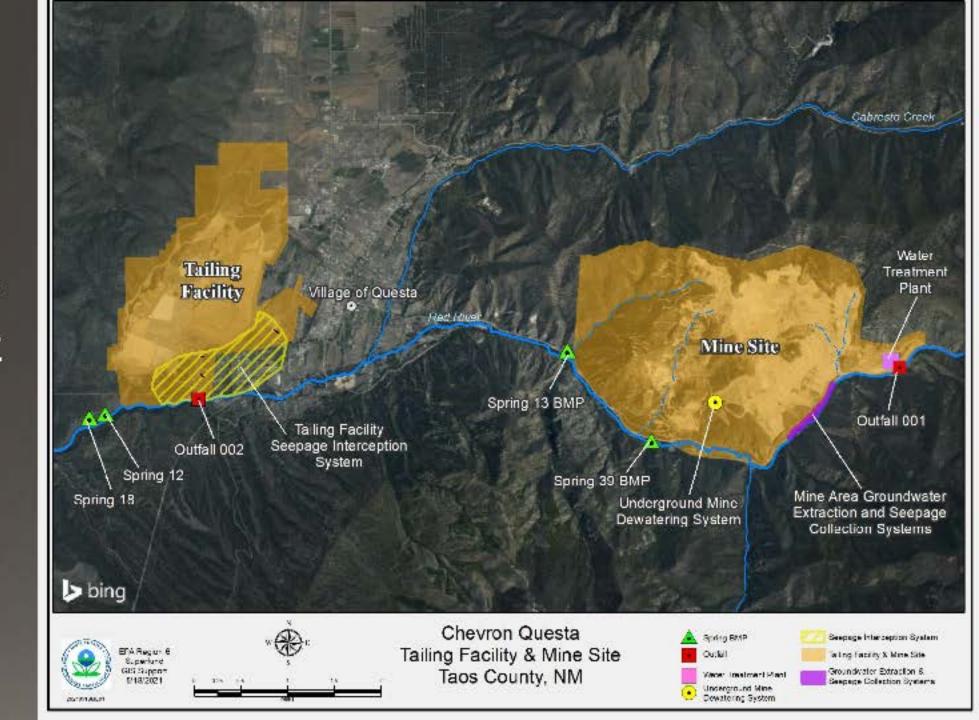








Groundwater Management





12/1: Installed cleanout, geotextile, and drain gravel within trench.

Excavated trench at STA 02+30.

Spring 13 Replacement Status

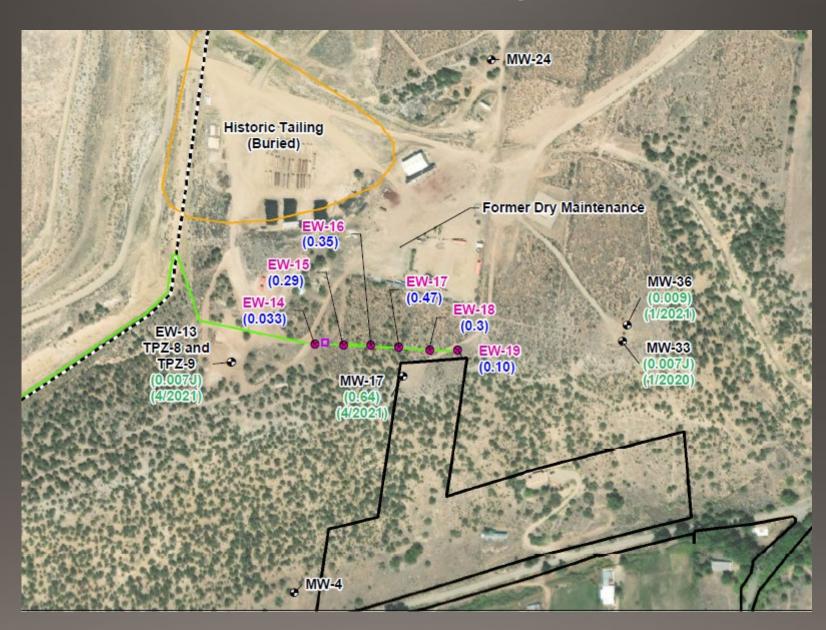
Spring 13 Updates

- Sump Water Management
- Pump back Vault Improvements
- Piezometer Installation
 - Piezometer Monitoring



Southeast Groundwater Extraction System

- Continuous zone of groundwater capture of molybdenum-affected groundwater downgradient (south) of historical buried tailing along the eastern limits of the Dam No. 1 impoundment
- 5-Well System (EW-15 thru EW-19) Positioned to Capture Plume
- Highest Concentrations in Middle of the Array
- EPA Molybdenum GW Cleanup Level – 0.08 mg/L



Southeast Groundwater Extraction System



Looking SSW - trench near Reach 5 to connect SEGWES to Outfall 002 08/23/2021

Cascade sonic drilling rig at EW-18 test borehole



Future Items

- Proposed Fourth Amendment to AOC
 - Design of Permanent Sludge Repository (Water Treatment Plant Area)
 - Design of Grading Plan for Tailing Facility (Tailing Facility Area)
 - Pre-Design Investigation & Preliminary Design for Group 2
 Waste Rock Piles (Mine Area)
 - Pre-Design Investigation of South of the Tailing Facility
- EPA's 2nd Five Year Review Report (late summer)

