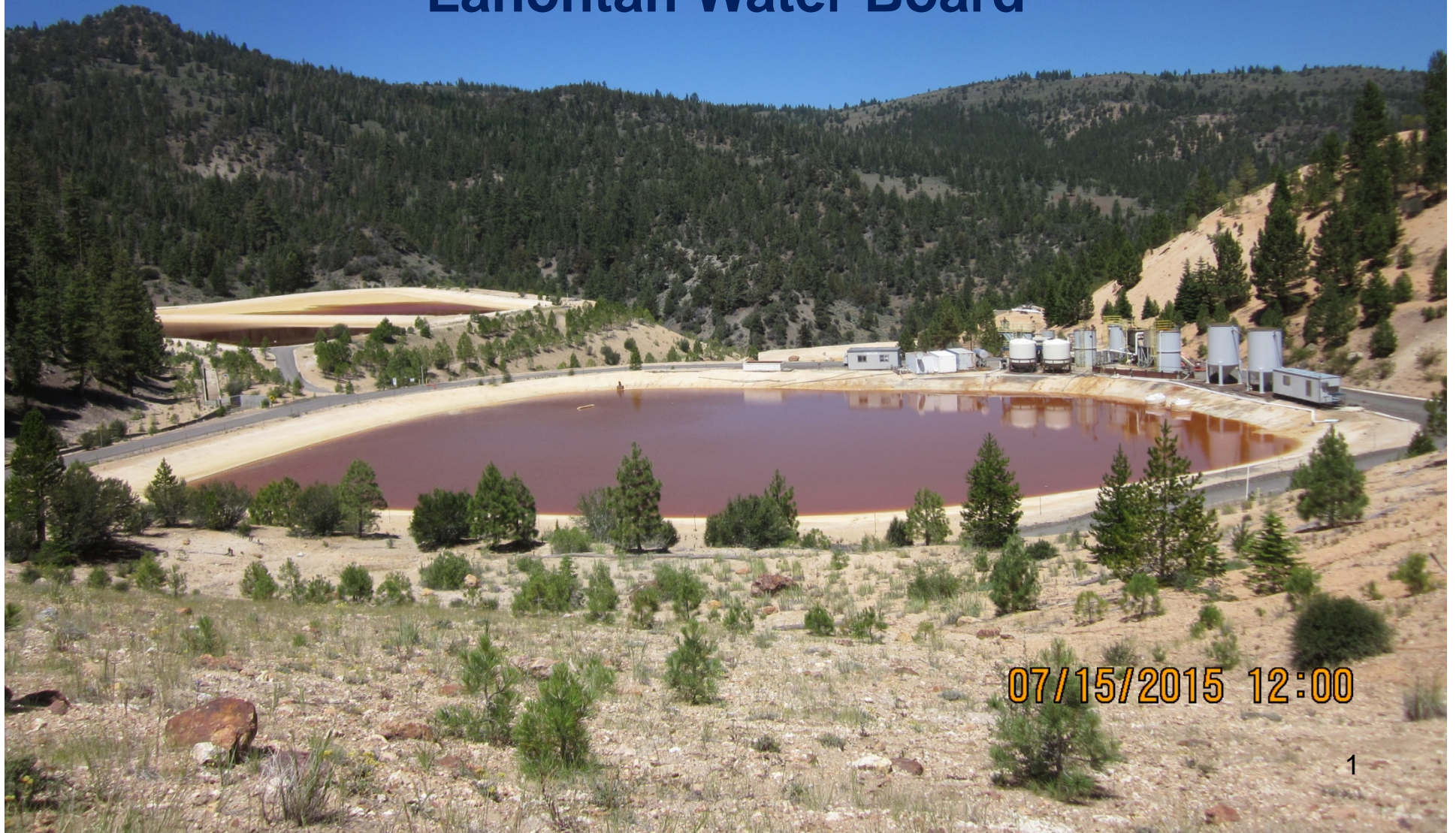


Leviathan Mine January 2016 Annual Technical Summary Meeting Lahontan Water Board



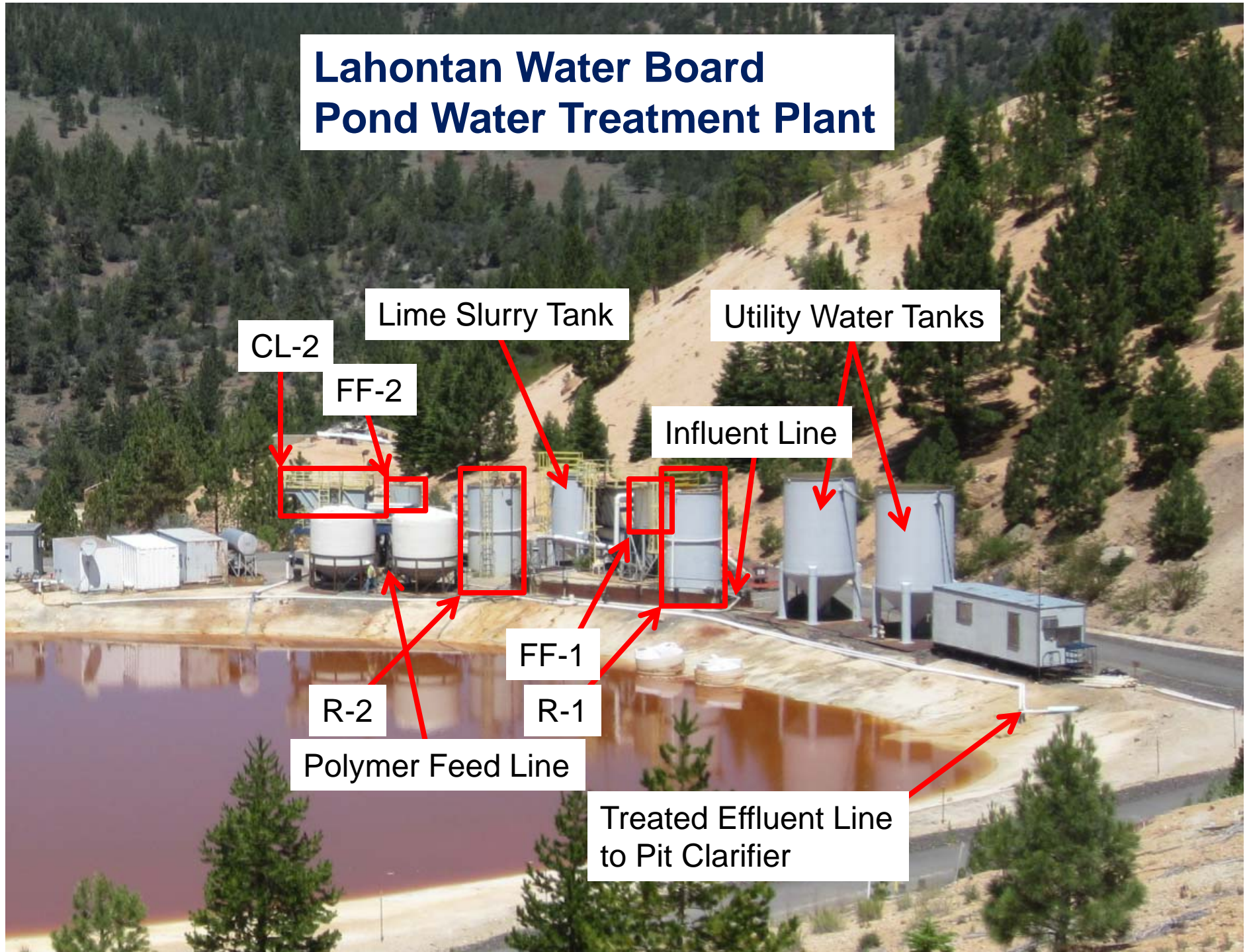
07/15/2015 12:00



Tasks in 2015:

- Summer Pond Water Treatment
- Flow and Stage Monitoring
- Routine Maintenance
- Revegetation Study Completed

Lahontan Water Board Pond Water Treatment Plant



2015 Pit Clarifier Sludge Removal and Disposal



- Approximately 156 tons of sludge were hauled off site for disposal in July 2015.
- Sludge generated during the treatment of 0.8 million gallons of AMD in 2014.

2015 Summer Pond Water Treatment Startup

- Assembly of pond water treatment plant
- Discharge of treated AMD to the Pit Clarifier began on July 15, 2015
- Discharge of treated AMD to Leviathan Creek began on July 21, 2015

2015 Summer Pond Water Treatment

- 2.5 million gallons of AMD treated and discharged
- Influent pH range 2.35 to 2.77 SU
- Influent average TDS 5,910 mg/L
- Field and lab data show USEPA discharge criteria met except for an occasional exceedance of total recoverable selenium

- 35.3 tons lime (dry weight)
- 1,100 gallons diesel
- 105 gallons gasoline
- 280 pounds of polymer
- 3,341 mg lime / liter AMD

07/30/2015 13:31

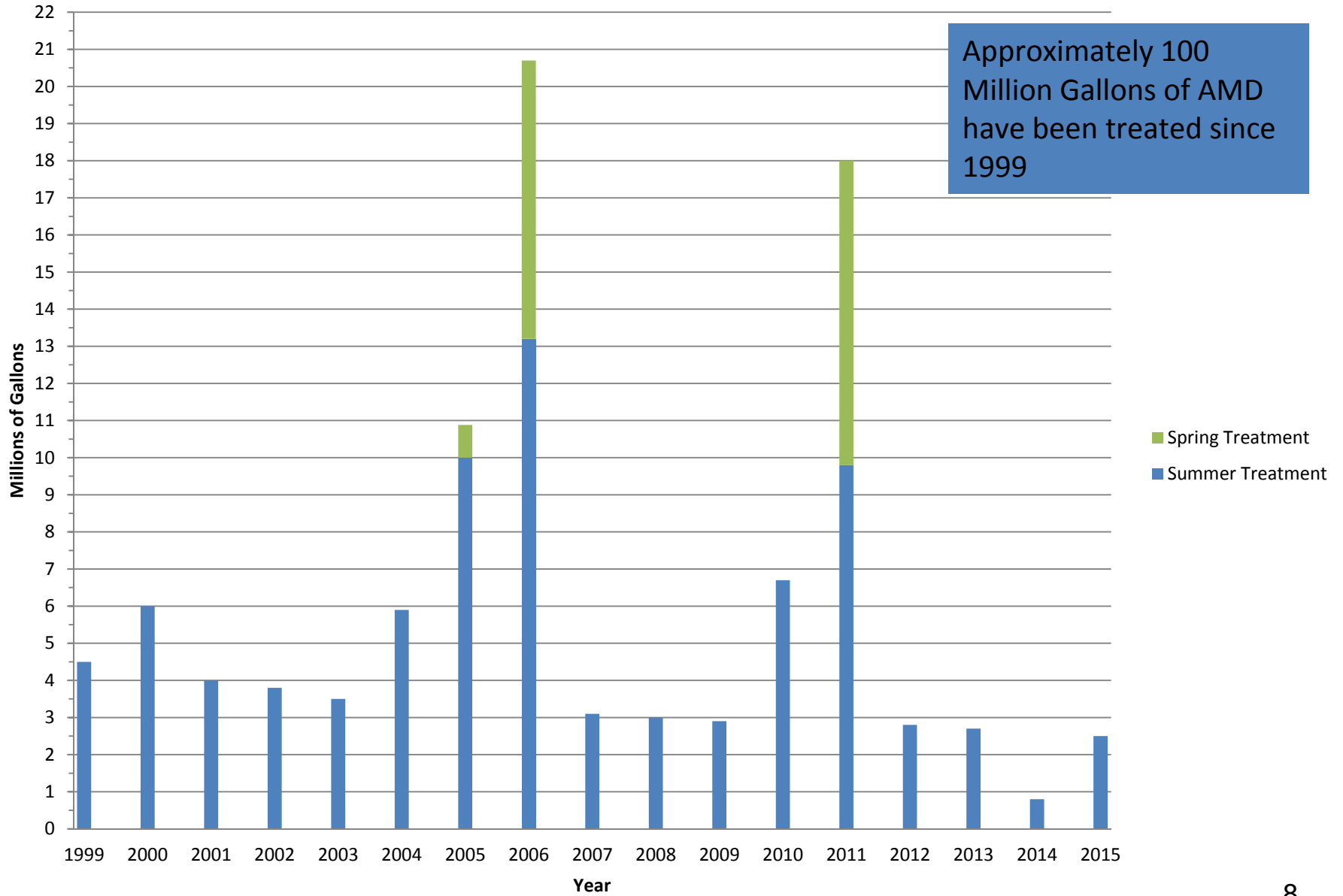


Sludge generated is contained in the pit clarifier

10/07/2015 09:43

Approximately 212 - 255 tons of sludge generated during the 2015 season will be hauled off site for disposal in 2016.

AMD Neutralized by Treatment Year



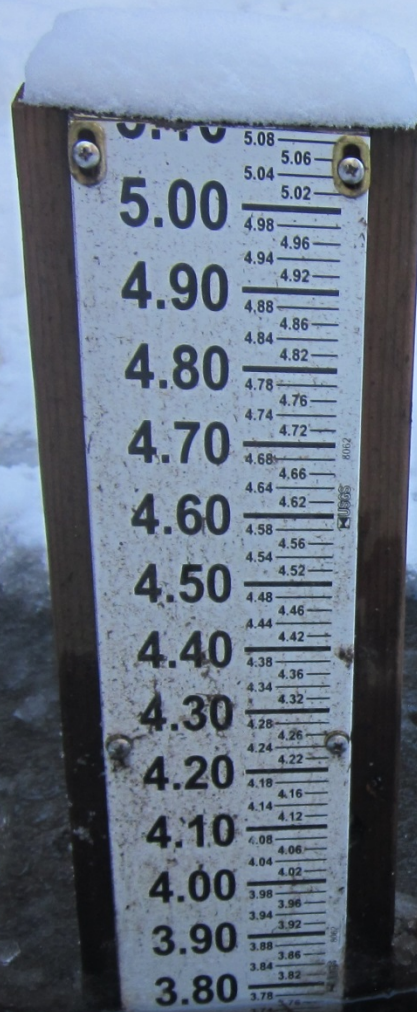
**Maximum capacity is available
for AMD storage entering
the 2015/16 winter**



07/31/2015 11:22

Ponds 2 North and 2 South essentially dry due to pond water treatment

Flow and stage monitoring



11/12/2015 14:42

- 15 locations during the 2015 water year

2015 Routine Maintenance

- Removed accumulated sediment from 14,000 linear feet of storm water conveyance ditches and from the Flow Control Structure
- Repaired perimeter fence
- Performed drainage work above flow control structure and installed BMPs in and around the Pit access road
- Coordinated with El Dorado County Department of Agriculture to spray invasive Tall Whitetop and Dyer's Woad



07/30/2015 13:28

Revegetation Study

- 2 Year Revegetation Study Completed by UC Davis
- Final Report available at:
http://www.waterboards.ca.gov/lahontan/water_issues/projects/leviathan_project/index.shtml



Leviathan Mine Revegetation Evaluation Report



Vic Claassen
Soils and Revegetation
UC Davis
June 2015
Final Report



Questions?

01/11/2016 09:38