Tasks in 2016:

- Summer Pond Water Treatment
- Flow and Stage Monitoring
- Maintenance
Lahontan Water Board
Pond Water Treatment Plant

- Lime Slurry Tank
- Utility Water Tanks
- Influent Line
- Polymer Feed Line
- Treated Effluent Line to Pit Clarifier

Cylinders labeled:
- CL-2
- FF-2
- FF-1
- R-2
- R-1
Approximately 163 tons of sludge were hauled off site for disposal in June 2016. Sludge generated during the treatment of 2.5 million gallons of AMD in 2015.
• Assembly of pond water treatment plant
• Discharge of treated AMD to the Pit Clarifier began on July 5, 2016
• Discharge of treated AMD to Leviathan Creek began on July 11, 2016
2016 Summer Pond Water Treatment

- 5.7 million gallons of AMD treated and discharged
- Influent pH range 1.95 to 2.79 SU
- Influent average TDS 4,495 mg/L
- Field and lab data show USEPA discharge criteria met.

- 62.07 tons lime (dry weight)
- 4,120 gallons diesel
- 200 gallons gasoline
- 184 gallons of polymer
- 2,625 mg lime / liter AMD
Sludge generated is contained in the pit clarifier

Approximately 485 - 570 tons of sludge generated during the 2016 season will be hauled off site for disposal in 2017.
More than 107 Million Gallons of AMD have been treated since 1999.
Approximation of Some of the Metals Removed
By the Pond Water Treatment Plant Since 1999

- 405,000 pounds of aluminum removed
- 590,000 pounds of iron removed
- 6,400 pounds of nickel removed
- 5,500 pounds of arsenic removed
Maximum capacity is available for AMD storage entering the 2016/17 winter.
Flow and stage monitoring

- 15 locations during the 2016 water year
2016 Maintenance

- Removed accumulated sediment from storm water conveyance ditches and repaired or replaced BMPs
- Repaired perimeter fence
- Performed minor grading near Pond 2 South
- Coordinated with El Dorado County Department of Agriculture to spray invasive Tall Whitetop and Dyer’s Woad
- Removed sediment from AMD distribution line and performed a remote video inspection
Questions?