Near-Term Risks: Options to Address Declining Reservoirs

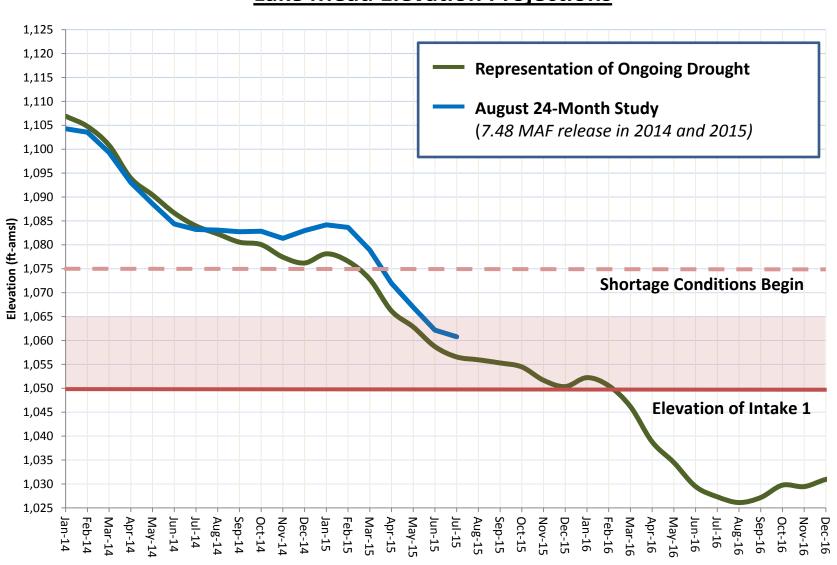
John Entsminger

Senior Deputy General Manager Southern Nevada Water Authority



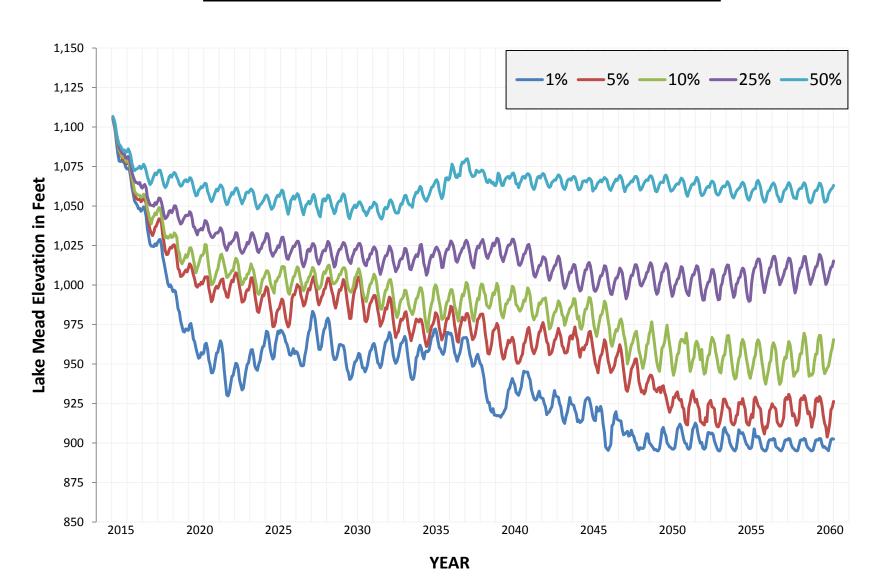
NEAR-TERM RISKS: Facility Interruptions

Lake Mead Elevation Projections



NEAR-TERM RISKS: Supply Shortages

Statistical Percentiles for Lake Mead Elevations



Addressing impacts from declining reservoirs will require multiple actions.

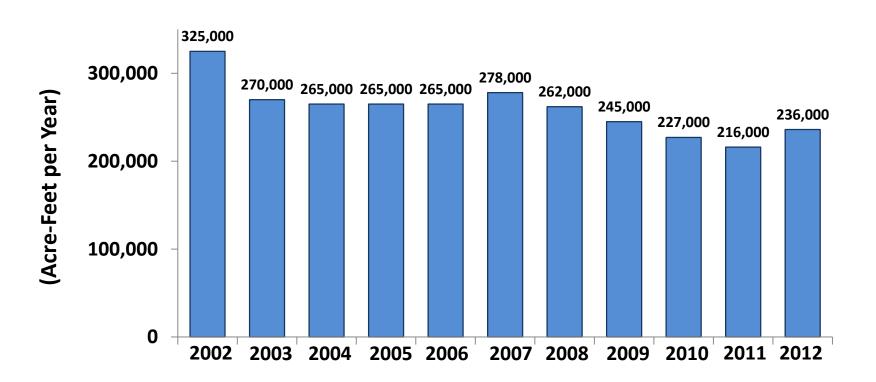
There is no single solution.



Photo Credit: Associated Press/Julie Jacobsen

ACTION: Reduce Water Use

Southern Nevada's Annual Consumptive Use



Southern Nevada uses nearly 90,000 acre-feet less water than it did ten years ago, despite annual population increases and millions of annual visitors.

ACTION: Develop Temporary Supplies

Southern Nevada has secured temporary resources to meet short-term demands.

Groundwater Banks

- Arizona
- California
- Southern Nevada

Intentionally Created Surplus Projects

- Binational ICS
- Brock Reservoir ICS water
- Yuma Desalting Plant ICS water
- Coyote Spring ICS
- Virgin and Muddy River ICS

SNWA's ICS Projects



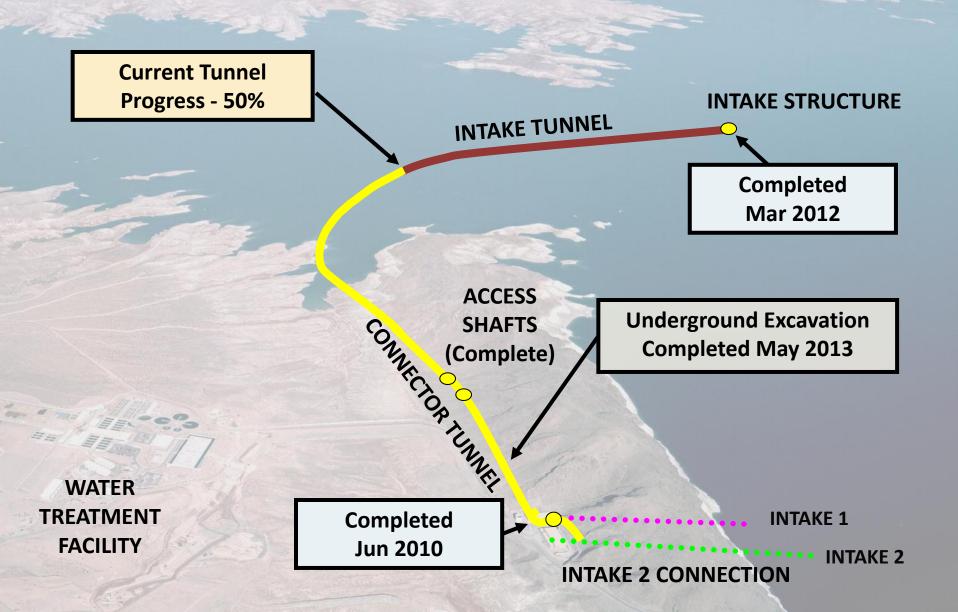
ACTION: Evaluate Facility Risks

A new drinking water intake in Lake Mead protects Nevada's ability to draw Colorado River water at low lake elevations.

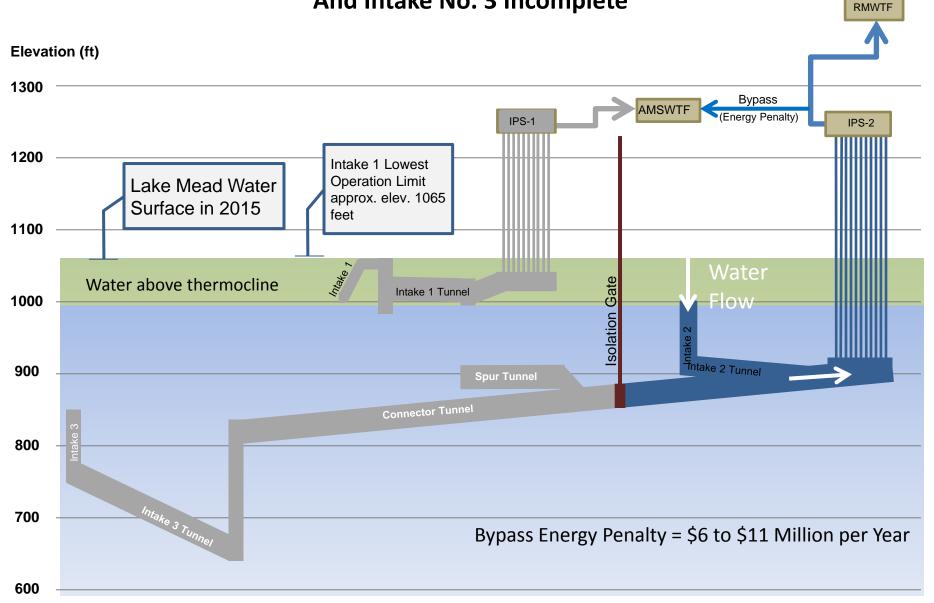
- Protects system capacity and reliability if lake levels fall below elevation 1,050 feet and Intake No. 1 cannot operate
- Accesses better water quality



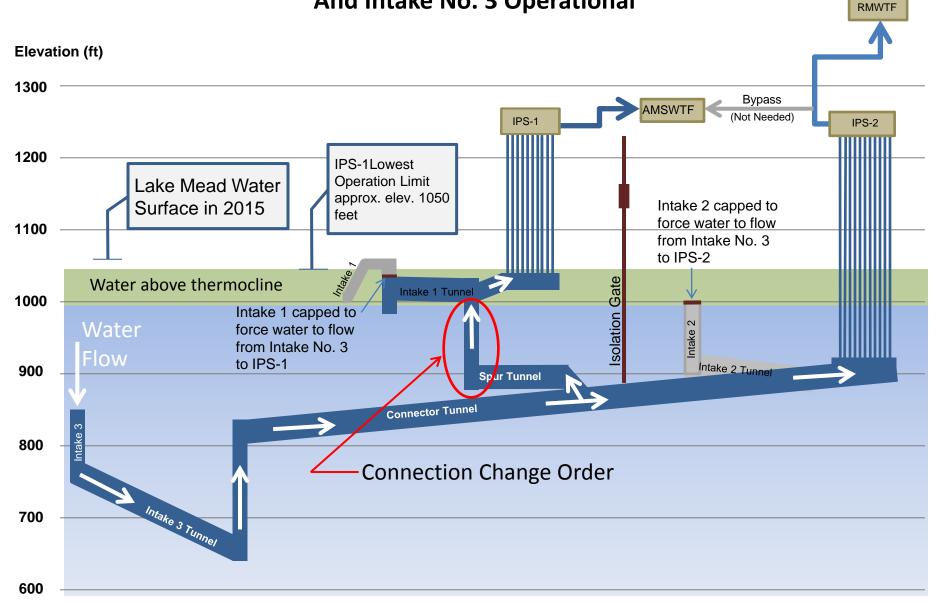
Current Progress



Intake System Operations With Intake Pumping Station No. 1 Out of Service And Intake No. 3 Incomplete



Intake System Operations With
Spur Tunnel Connected to Intake Pumping Station No. 1
And Intake No. 3 Operational



ACTION: Be Creative

Rather than trying to reopen the Colorado River Compact, Nevada has benefitted from the flexibility it offers.

- Coordinated operations of Lakes Powell and Mead have helped protect Lake Mead's elevations.
- Resources secured through Intentionally
 Created Surplus provisions help meet current demands and provide some relief in the event of supply shortages.



