



Washoe County Commission Directives

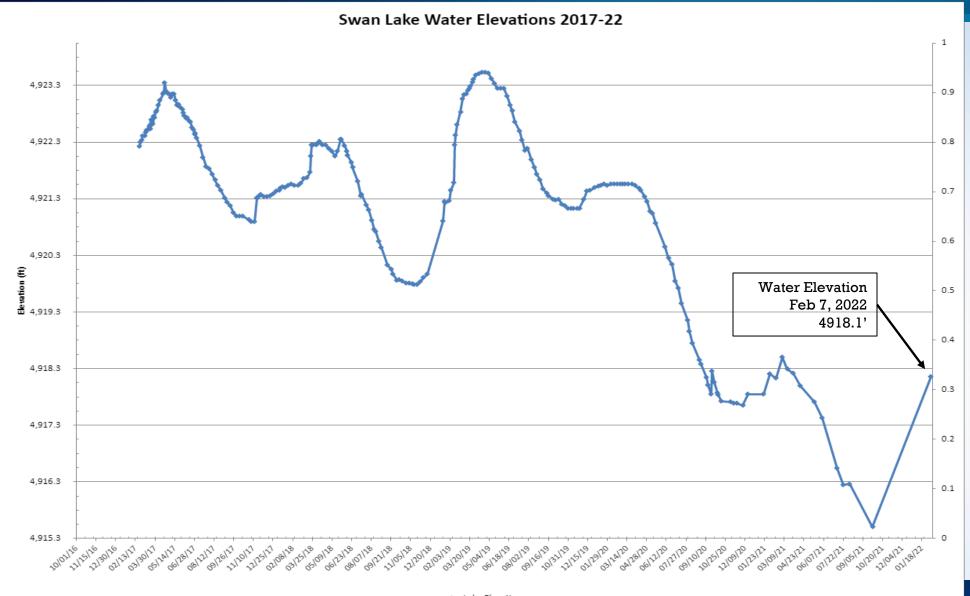
- ✓ Manage Swan Lake within current boundaries
- ✓ Prevent water from entering homes and businesses
- ✓ Maintain open access for residents/emergency responders



Update Items:

- ✓ HMGP Residential Property Purchase Program
- ✓ Temporary Barrier Removal
- √ FEMA 100-Year Flood Plain
- ✓ Long-Term Mitigation

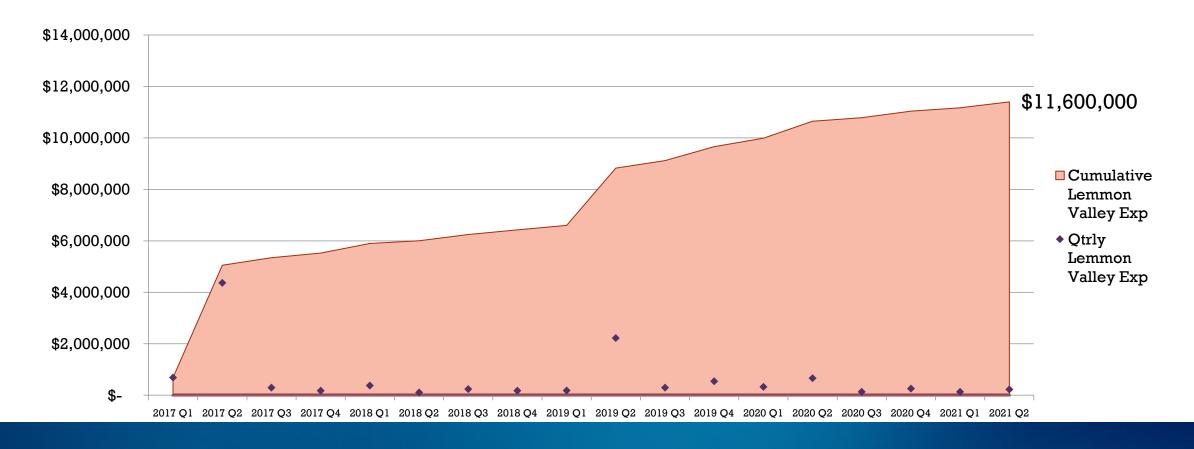






Flood response funding: GF contingency, stabilization and water rights sale proceeds

- ≈ \$10M General Fund
- ≈ \$1.6M Utility Fund



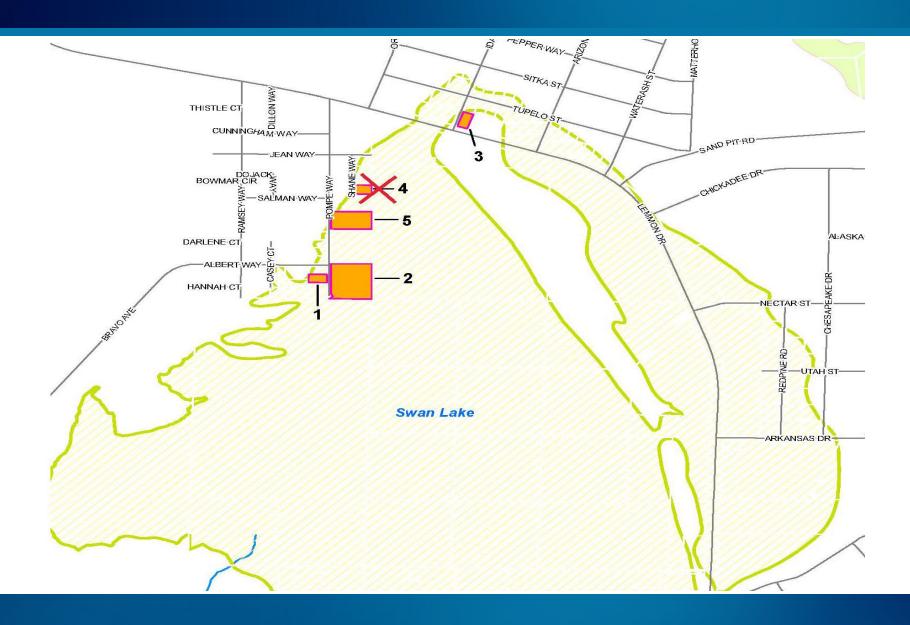


HMGP Residential Property Purchase Program

Remove residential property from flood impacted area, return property to open space, eliminate future mitigation costs.

- ≥3 properties successfully purchased
- ➤ 4th property Escrow to close March 1st
- ➤ Property clearing/clean up Summer 2022
 - All buildings, debris, utility connections, etc.
- Field work complete with grant closeout End of 2022
- > Future grant funding opportunities for additional purchases







Temporary Barrier Removal

- Temporary HESCO and Tiger Dam barriers
- Pumps, piping and roadway crossings
- Removal of all culvert plugs under residential roadways
- Restoration of Lemmon Drive
- Restoration of residential driveways Lemmon Drive, Pompe Way
- Regrade roadside ditches
- Final debris removal
- Earthen berm end of Pompe Way
- ➤ Arkansas Road September 2019
- ➤ Lemmon Valley Elementary School July/August 2021
- ➤ Lemmon Drive culvert plugs January 2022

<u>Project Complete – April 2022</u>





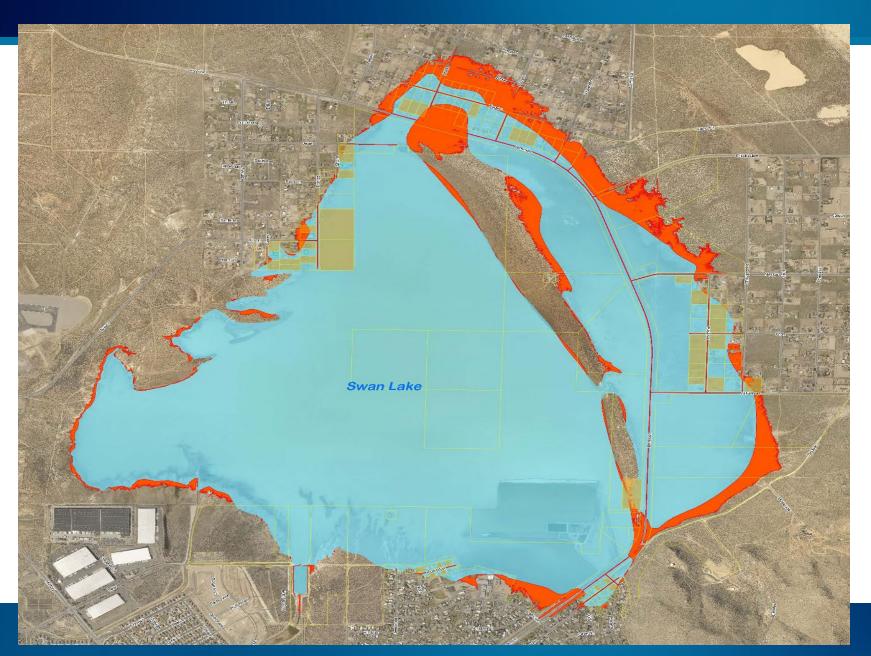




FEMA 100-Year Flood Plain

- > 2017 flooding revealed inaccurate FEMA 100-year flood risk maps (FIRM)
- ➤ Initiated study to update regulatory 100-year (1%) flood plain limits and depth
 - Statistical and hydrological analysis includes historic, measured data sets and risk assessment
 - 500-year non-regulatory flood plain
- > DRI Study completed January 2022
 - Conform data sets
- Update flood plain current and future mitigation projects
- Commitment to potential impacted residents/businesses







Long-Term Mitigation

Reduce flood risk to existing and future residents/businesses, protect critical infrastructure

- ➤ Updated Policies volumetric mitigation, retention/detention basins
- ➤ "Matrix"
 - 5 alternatives, reduced from 25+ concepts
 - Phase I engineering studies and risk assessments

Swan Lake Operation Plan

- ➤ During high precipitation/flood
 - Divert water away from lake, protect residents/businesses/infrastructure
- ➤ During drought/no precipitation
 - Divert water to lake, preserve wildlife habitat and enhance quality of life



Stakeholders

- Existing residents/businesses
- Washoe County School District
- City of Reno
- Regional Transportation Commission
- > FEMA
- State of Nevada Flood Plain Management
- Nature Conservatory/Audubon Society/wildlife partners/Parks Commission
- New Development

Project(s):

- ➤ Lemmon Drive RTC roadway project
- ➤ Lemmon Valley Water Reclamation Facility Washoe County Utility
- COR Irrigation Pipeline

Thank you





