

North Valley Flood Update – February 2022

North Valleys Watersheds
Cold Springs
West Lemmon Valley
East Lemmon Valley

White
Lake

Silver
Lake

Swan
Lake





Washoe County Commission Directives

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



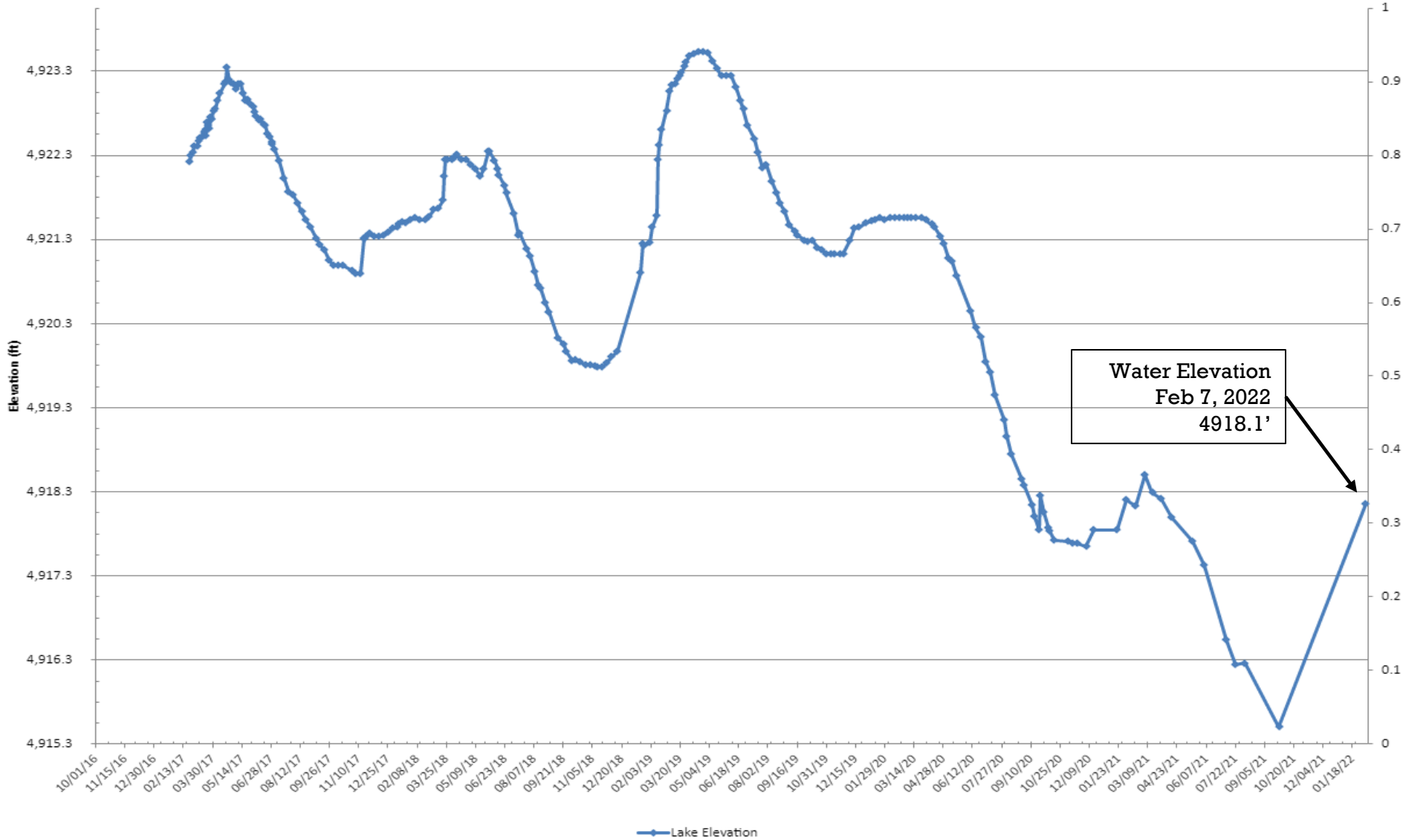
Update Items:

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

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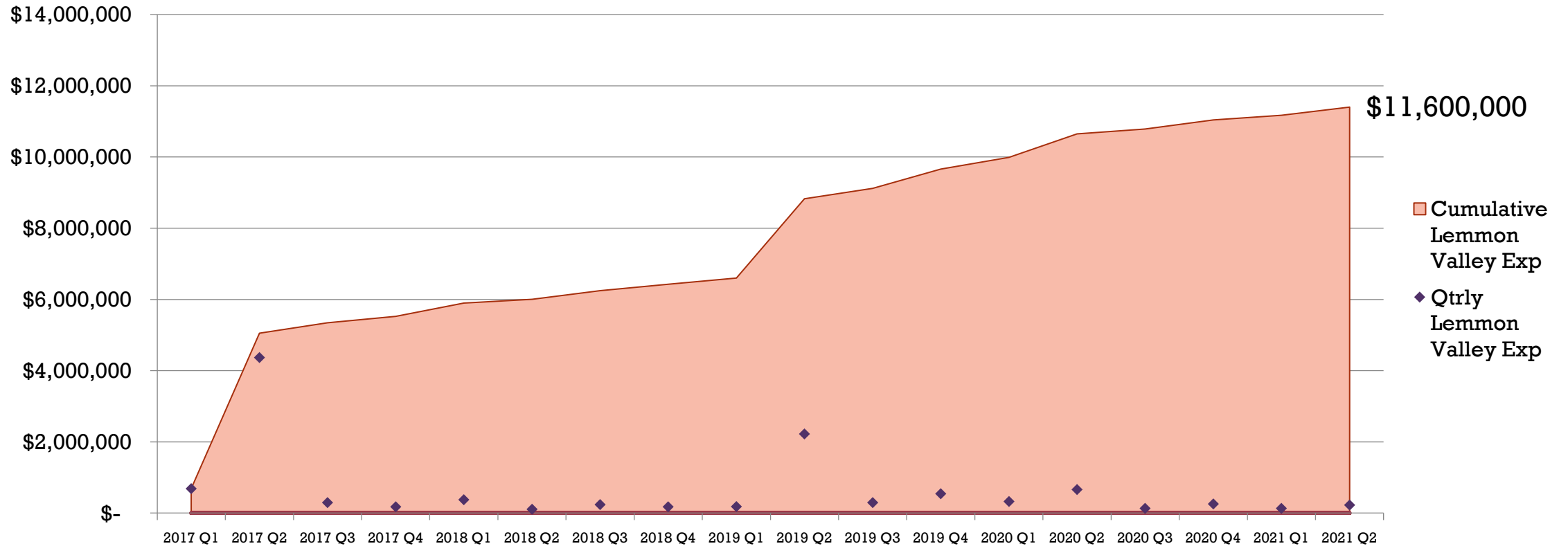
Swan Lake Water Elevations 2017-22





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.

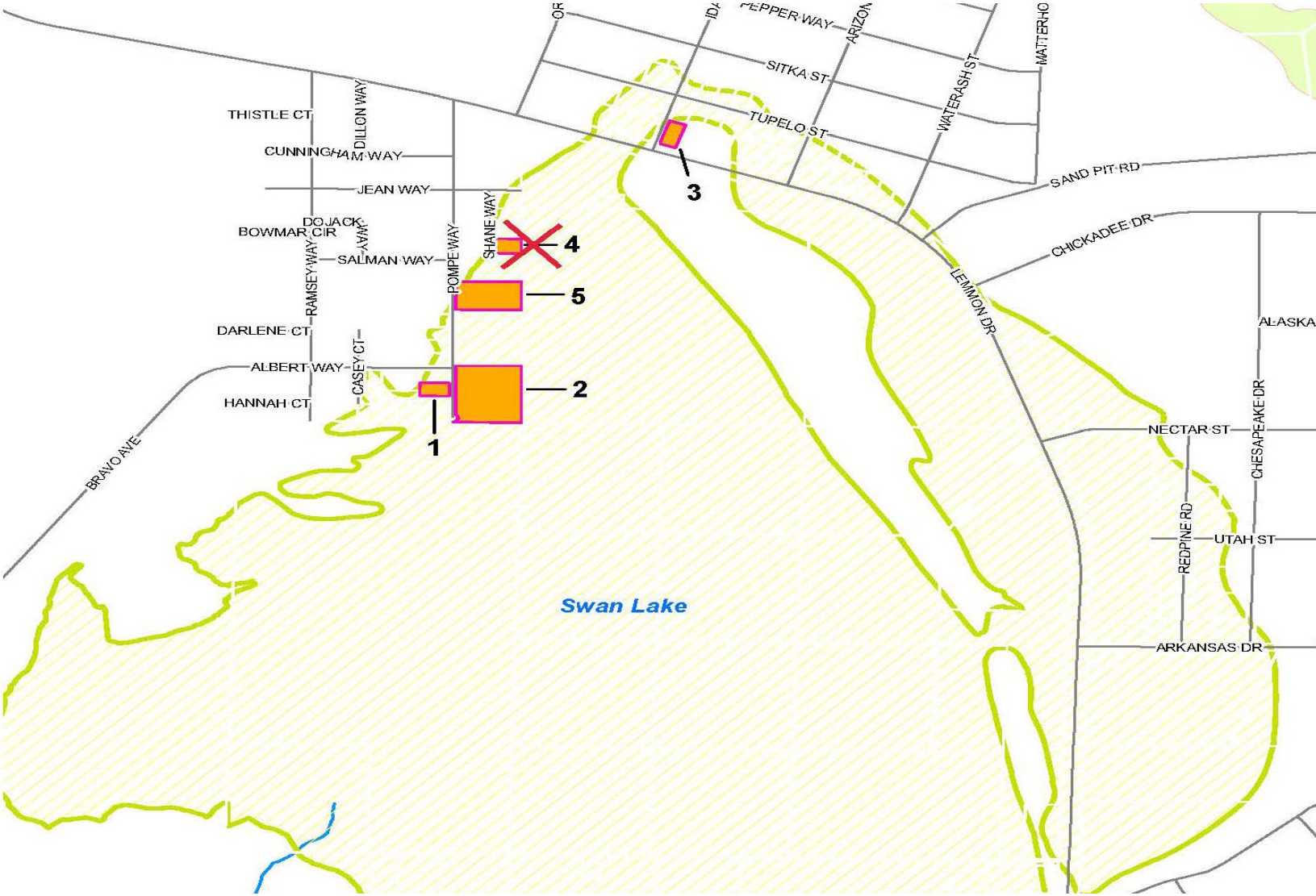
- 3 properties successfully purchased
- 4th property – Escrow to close March 1st

- 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

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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

Project Complete – April 2022

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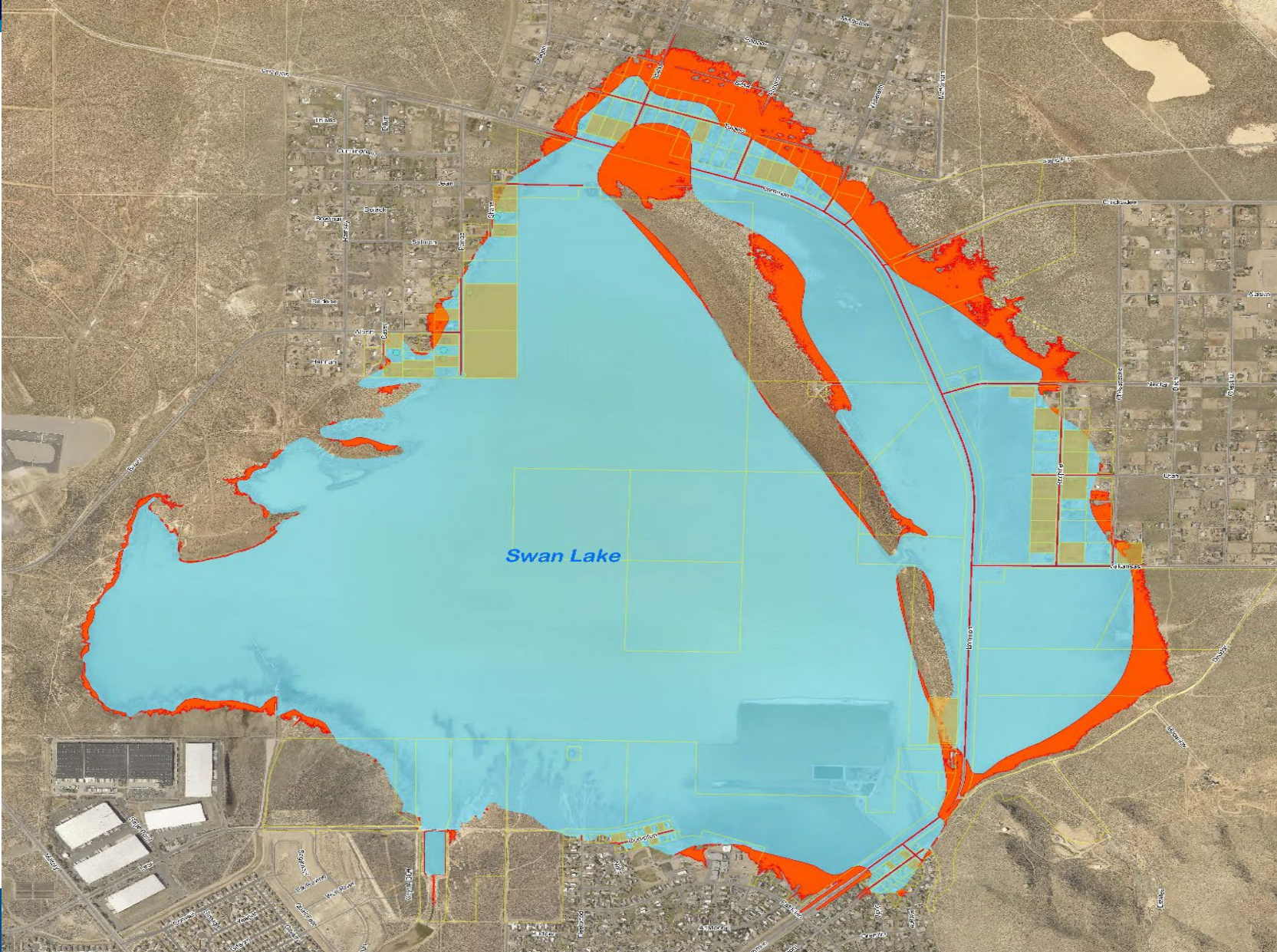




FEMA 100-Year Flood Plain

- 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

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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



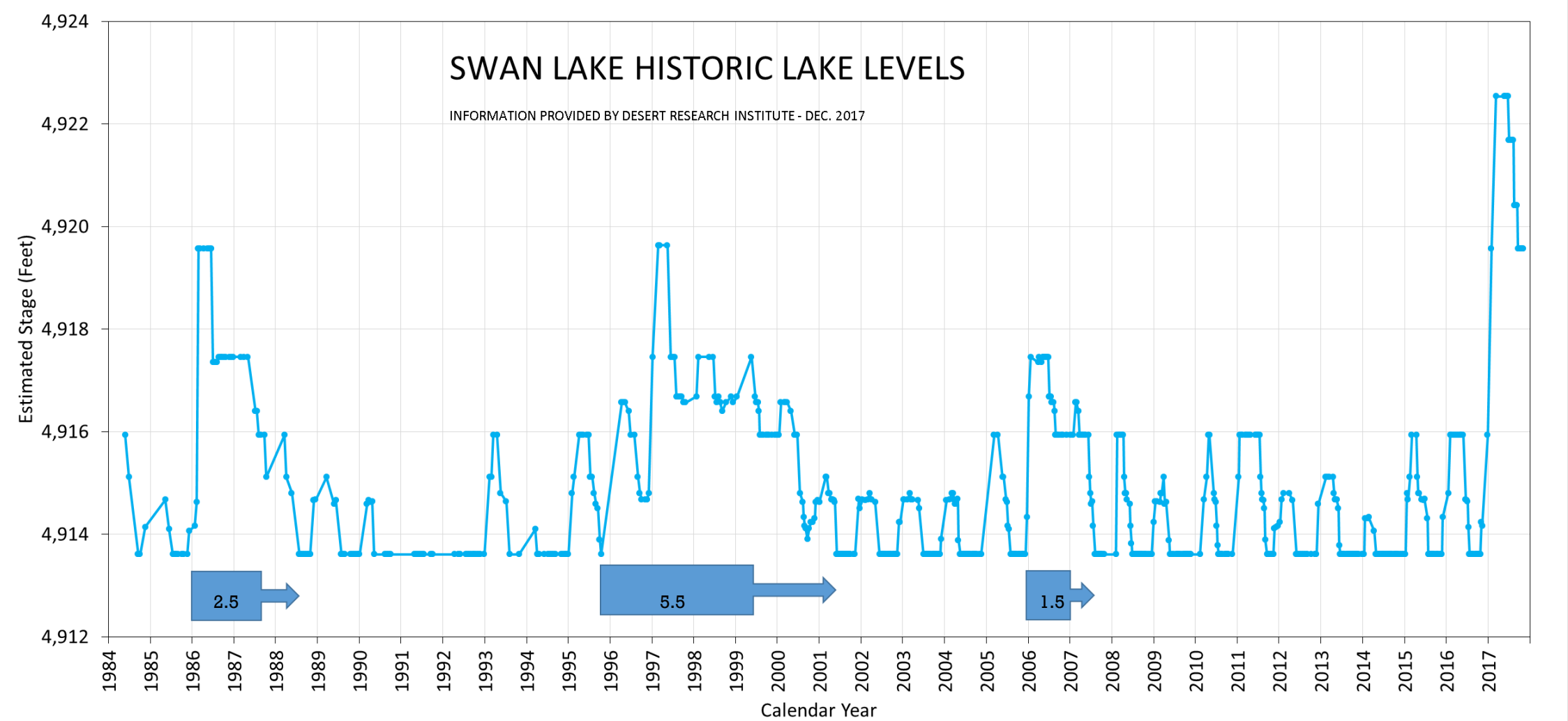
Stakeholders

- 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

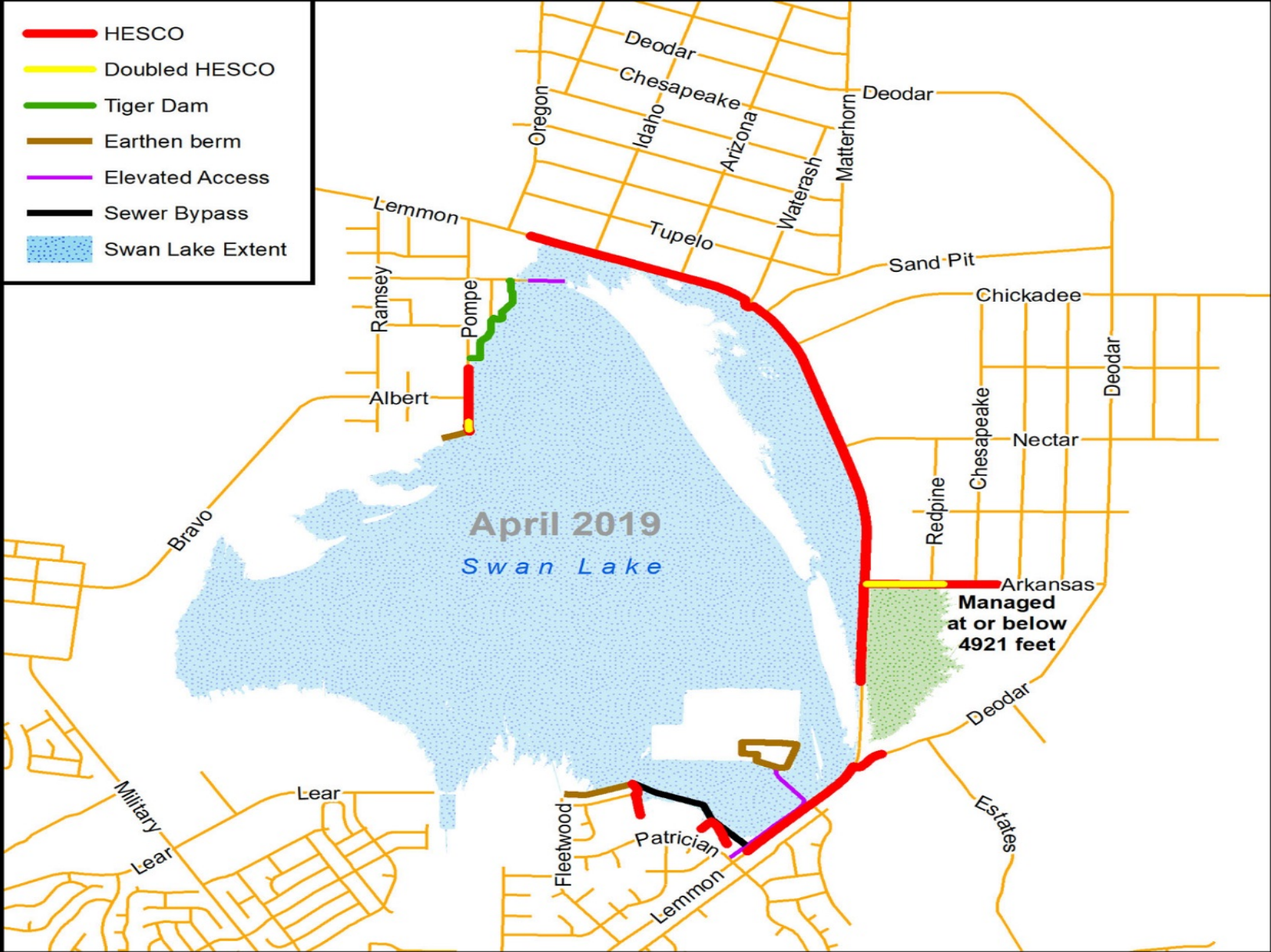
Project(s):

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

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Thank you

