

Engineering and Operations Committee

Item #6b

Subject: Diemer - Update on Diemer Plant Seismic Upgrades

Purpose: To provide an update on the Diemer plant's seismic upgrades and changes in the Washwater Reclamation Plant project to address seismicity



Update on Seismic Upgrades at the Diemer Plant

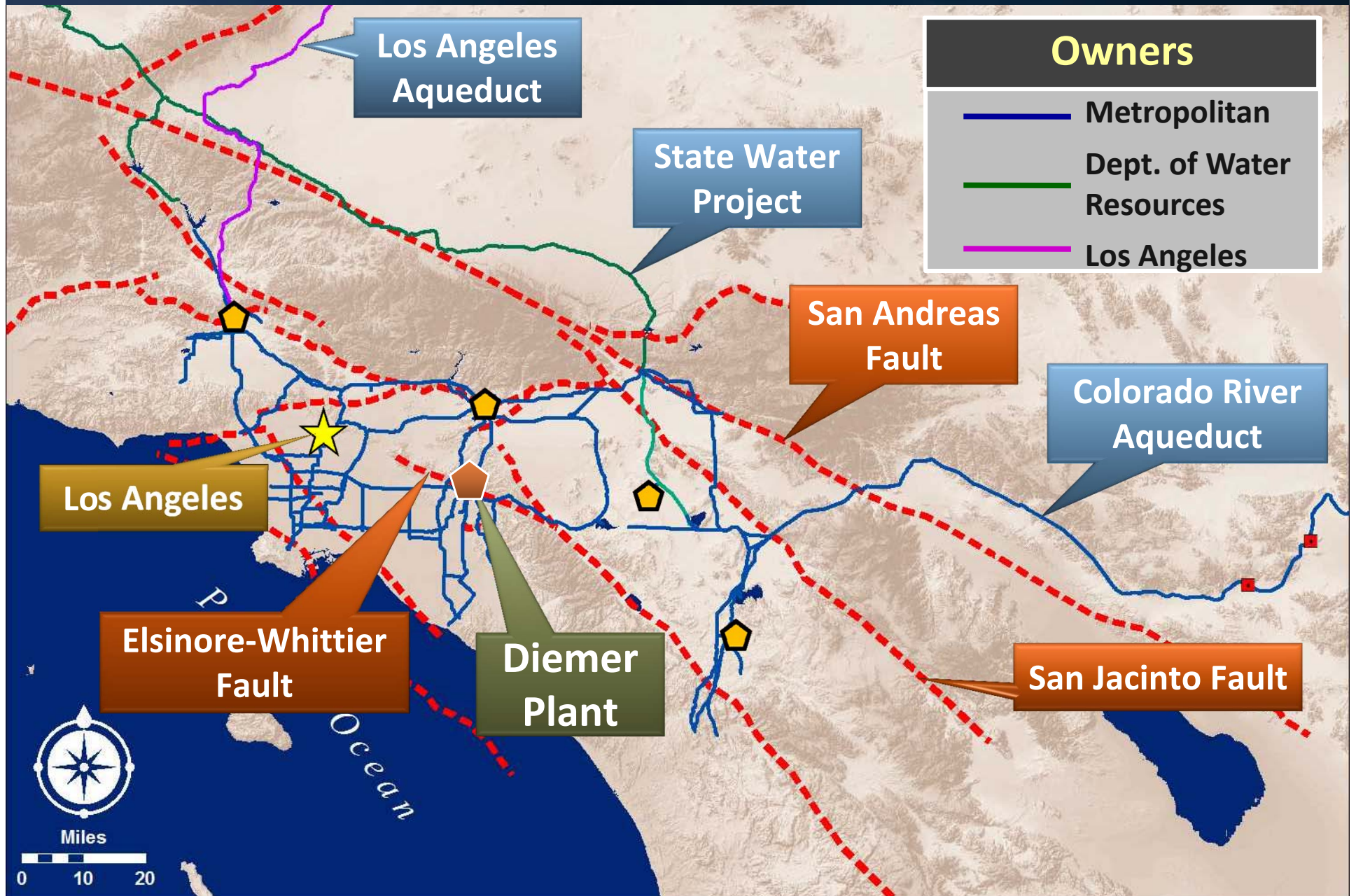
Engineering & Operations Committee
Item 6b
September 9, 2013

Outline

- Metropolitan's Seismic Program
- Diemer seismic upgrades
- Planned changes to the Diemer WWRP seismic retrofit



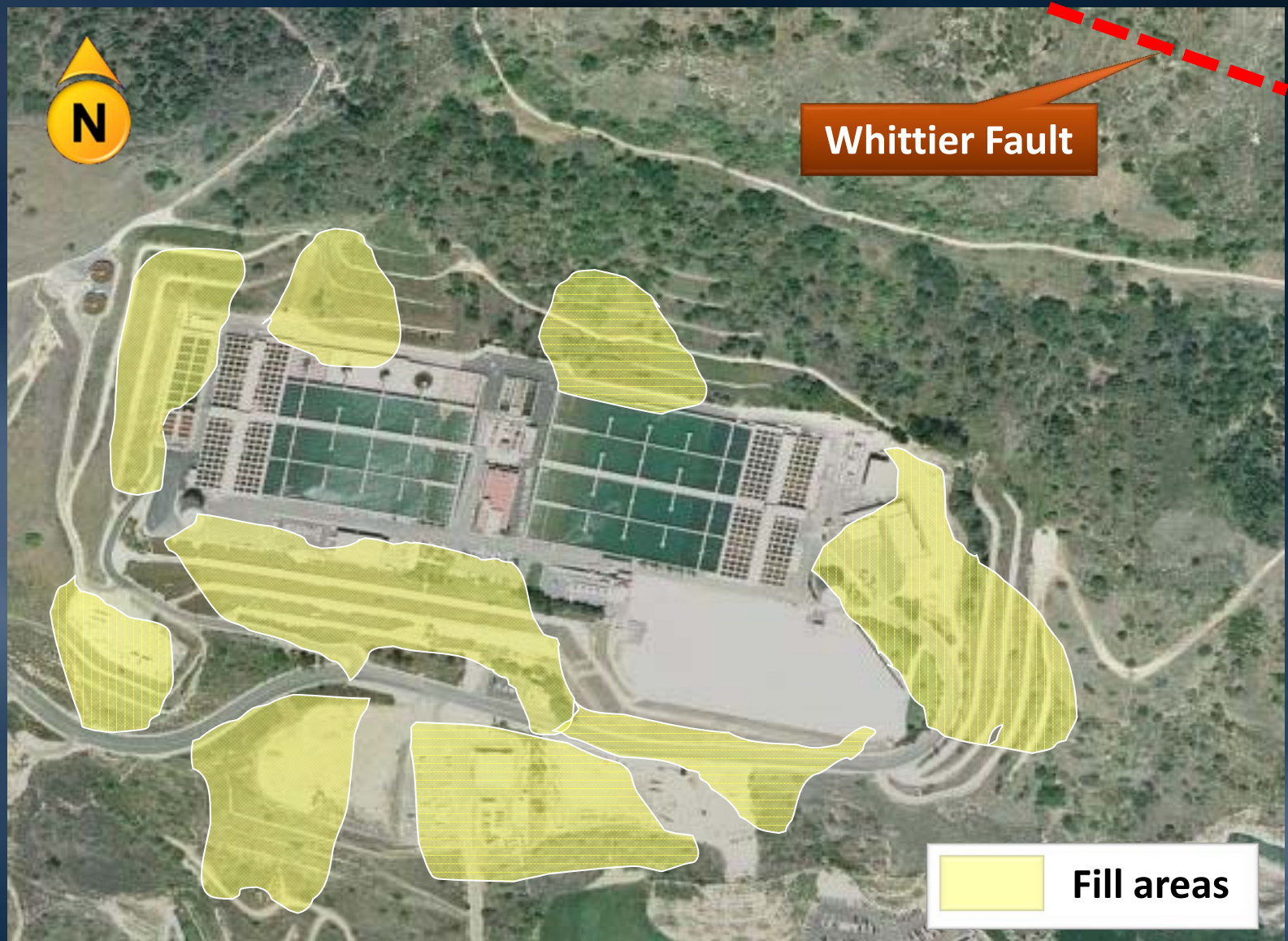
So. California Faults



Seismic Program

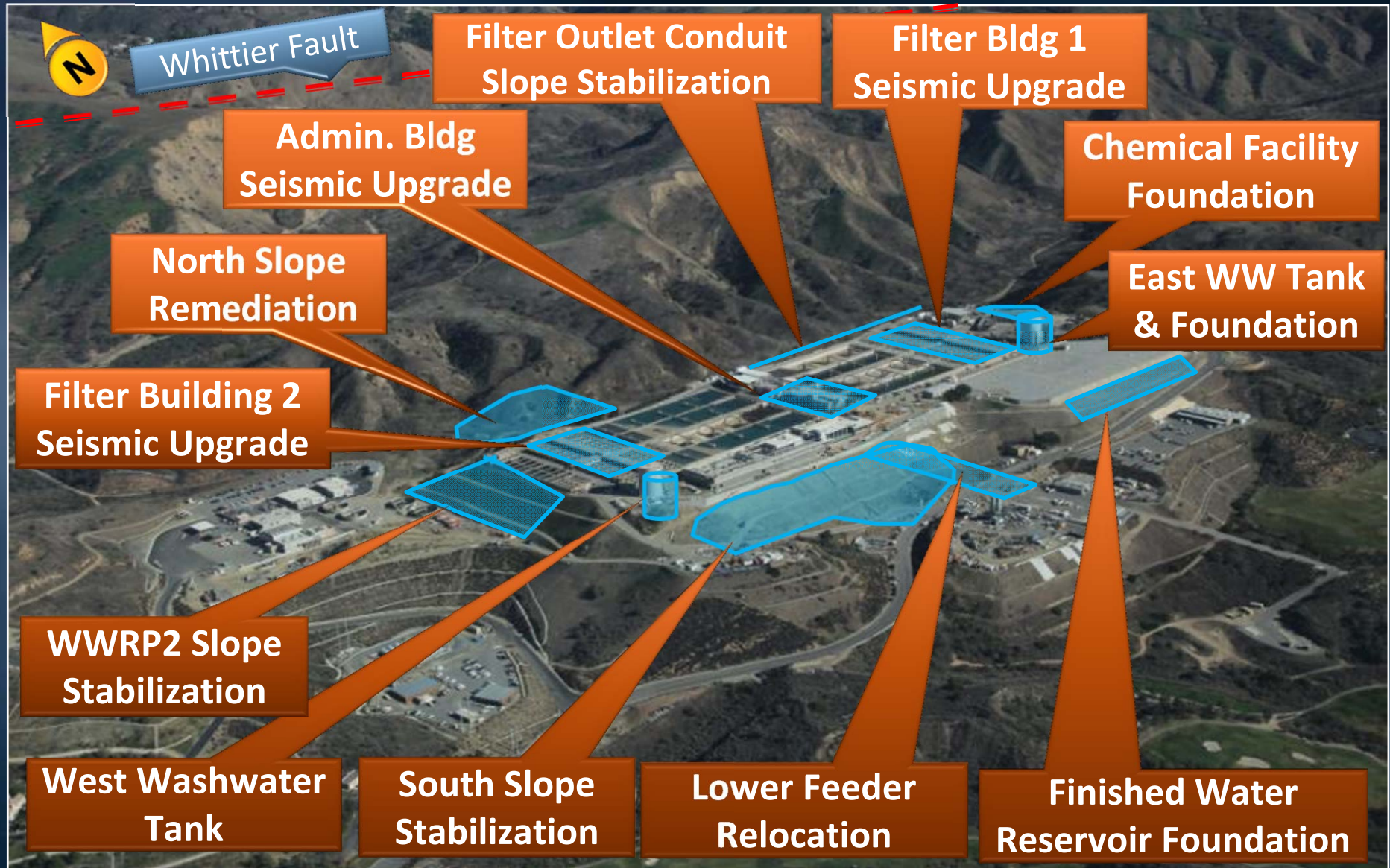
- Goal: Reliability
- Increased understanding of earthquake hazards
 - Lessons learned from recent earthquakes
 - New findings in regional seismicity
 - Evolving code provisions
 - Progressive increase in seismic design accelerations
 - New knowledge of building system response

Diemer Plant Fill Areas



Diemer Plant Seismic Upgrades

Upgrades Constructed or Underway



North Slope Remediation



Diemer ORP South Slope & Inlet Conduit Stabilization

Benching of Native Soil



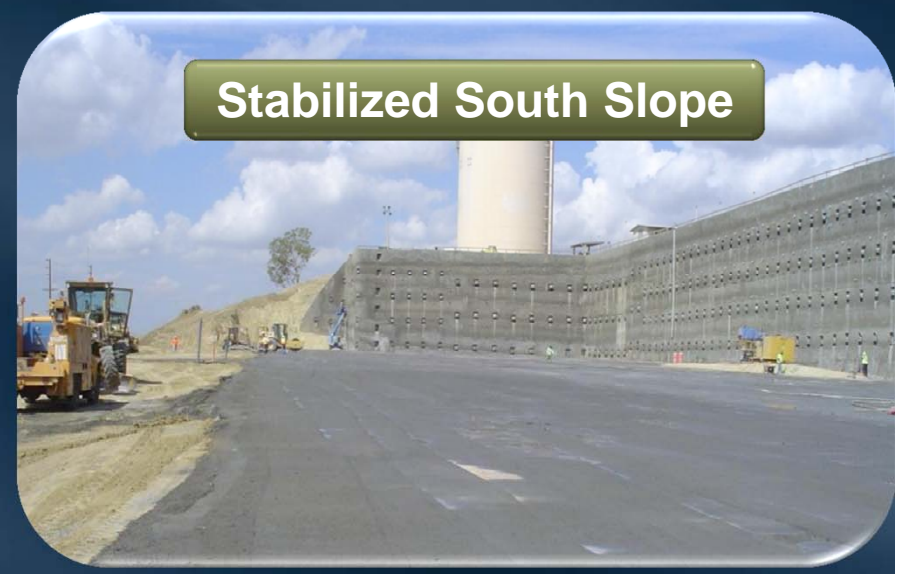
RCC Placement



Ozone Buildings



Stabilized South Slope



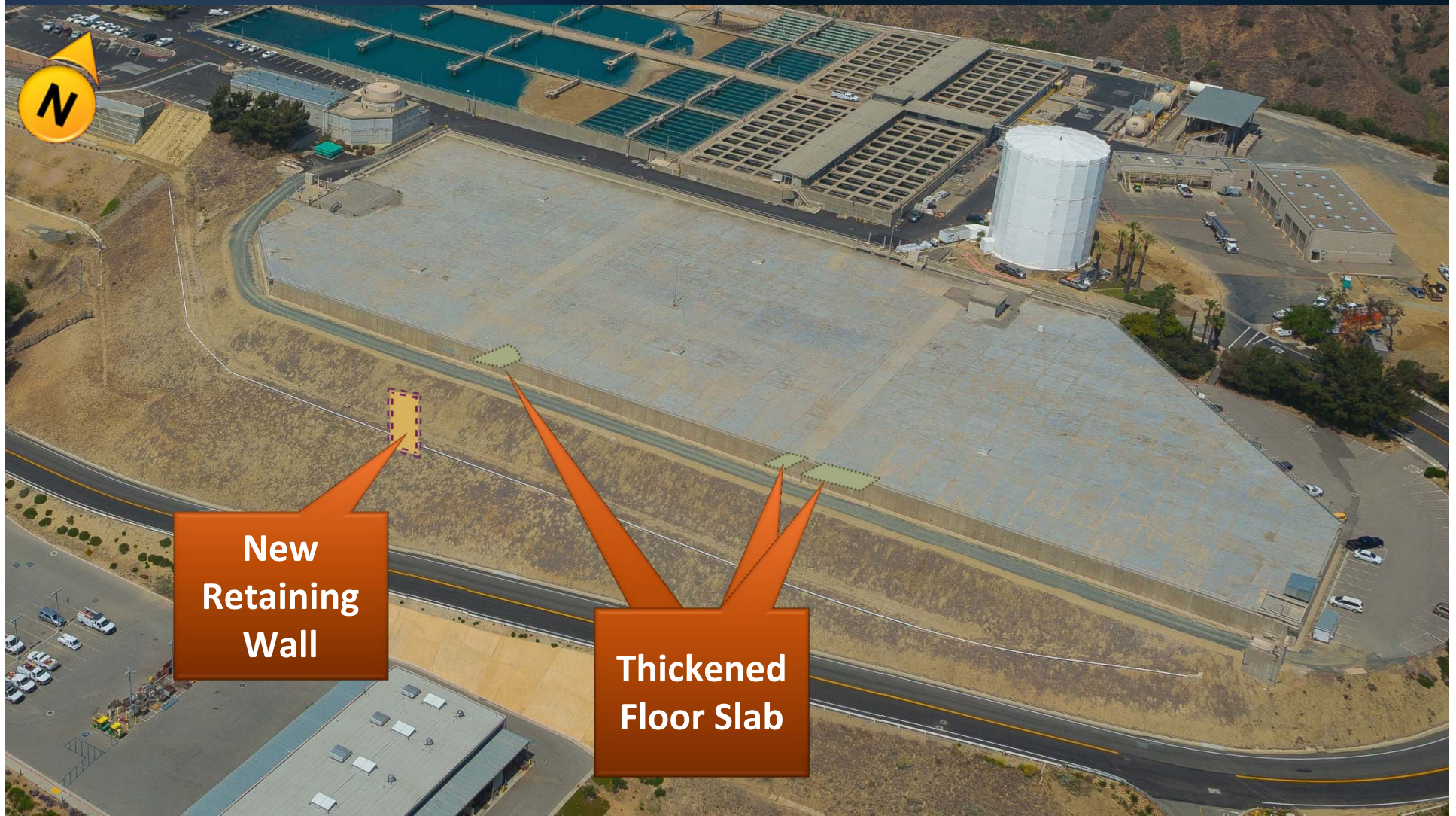
East Washwater Tank



Finished Water Reservoir

New Retaining Walls

Finished Water Reservoir



**New
Retaining
Wall**

**Thickened
Floor Slab**

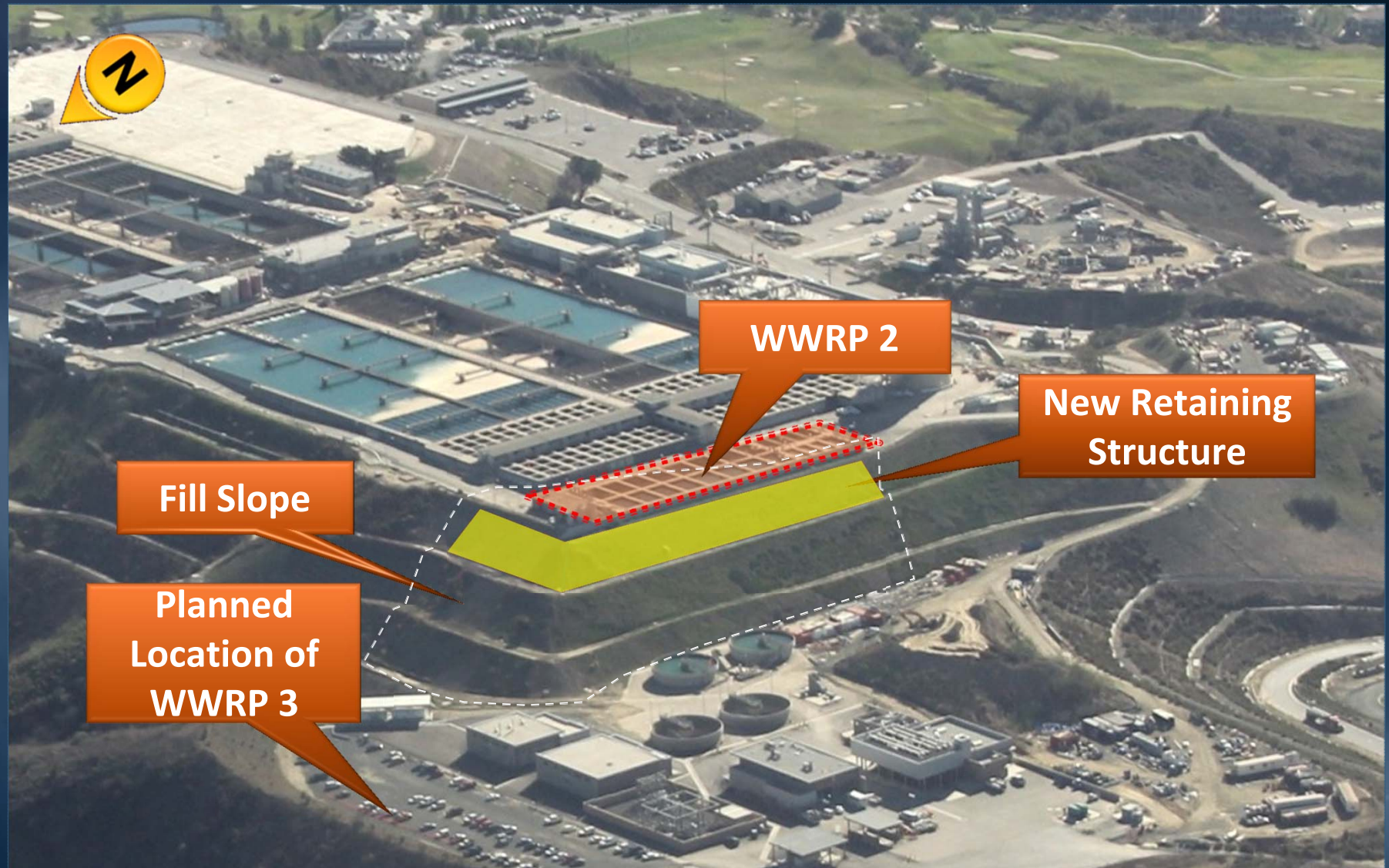
Diemer Filter Buildings



Diemer Administration Building

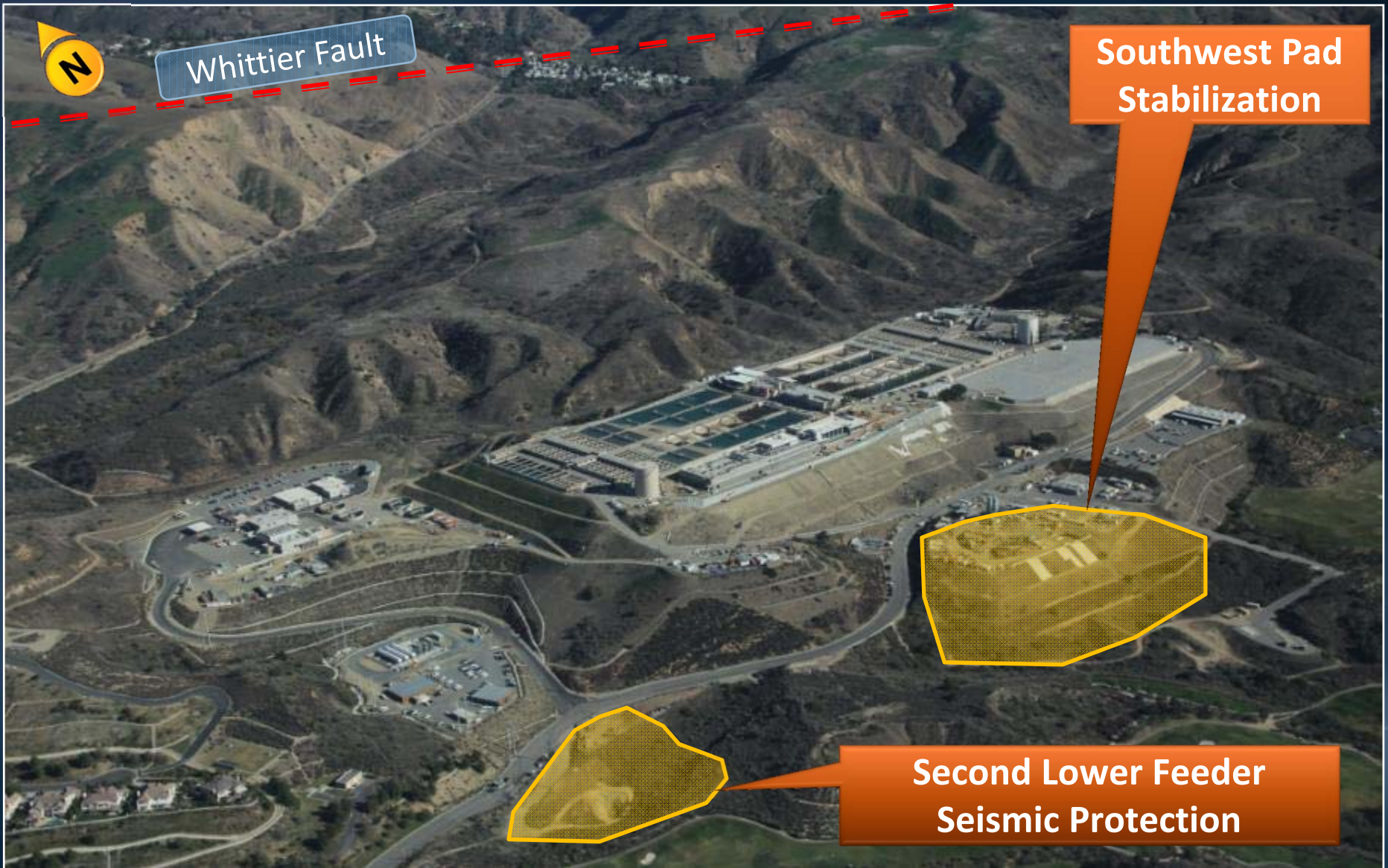


Washwater Reclamation Plant No. 2



Diemer Plant Seismic Upgrades

Upgrades Planned



Summary

- Diemer Plant is reliable
- Diemer seismic upgrade progress
 - 38 structures & major conduits evaluated
 - 30 structurally adequate
 - 6 upgrade projects underway
 - 2 retrofits planned
 - \$87 Million expended to date for seismic upgrades
 - \$33 Million in seismic improvements expenditures planned