



Valley Water

Clean Water • Healthy Environment • Flood Protection

Approval of Partnership Agreement Between Santa Clara Valley Water District, the City of Palo Alto and the City of Mountain View to Advance Water Reuse in Santa Clara County.

Recycled Water Committee Meeting – December 11, 2019

Drivers

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Board Governance Policy - meet 10% of County's total water demands using water reuse

Water Supply Master Plan

- Comprehensive evaluation of project and program costs, benefits, and risks
- Ensure Sustainability Strategy
- Recommend projects such as water reuse

Ensure Sustainability Strategy

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Secure existing
supplies and
infrastructure

Expand
conservation
and reuse
(24,000 acre-
feet/year of
potable reuse)

Optimize the
system

Countywide Water Reuse Master Plan

- How to meet 24,000 AFY goal of potable reuse supply?
- Expand countywide reuse with Partner Agencies
- Consider new projects and previously explored projects, including reverse osmosis concentrate management strategies
- Evaluate wastewater availability for both non-potable reuse and potable reuse projects

Background

Regional Water Quality Control Plant (RWQCP) treats wastewater for:

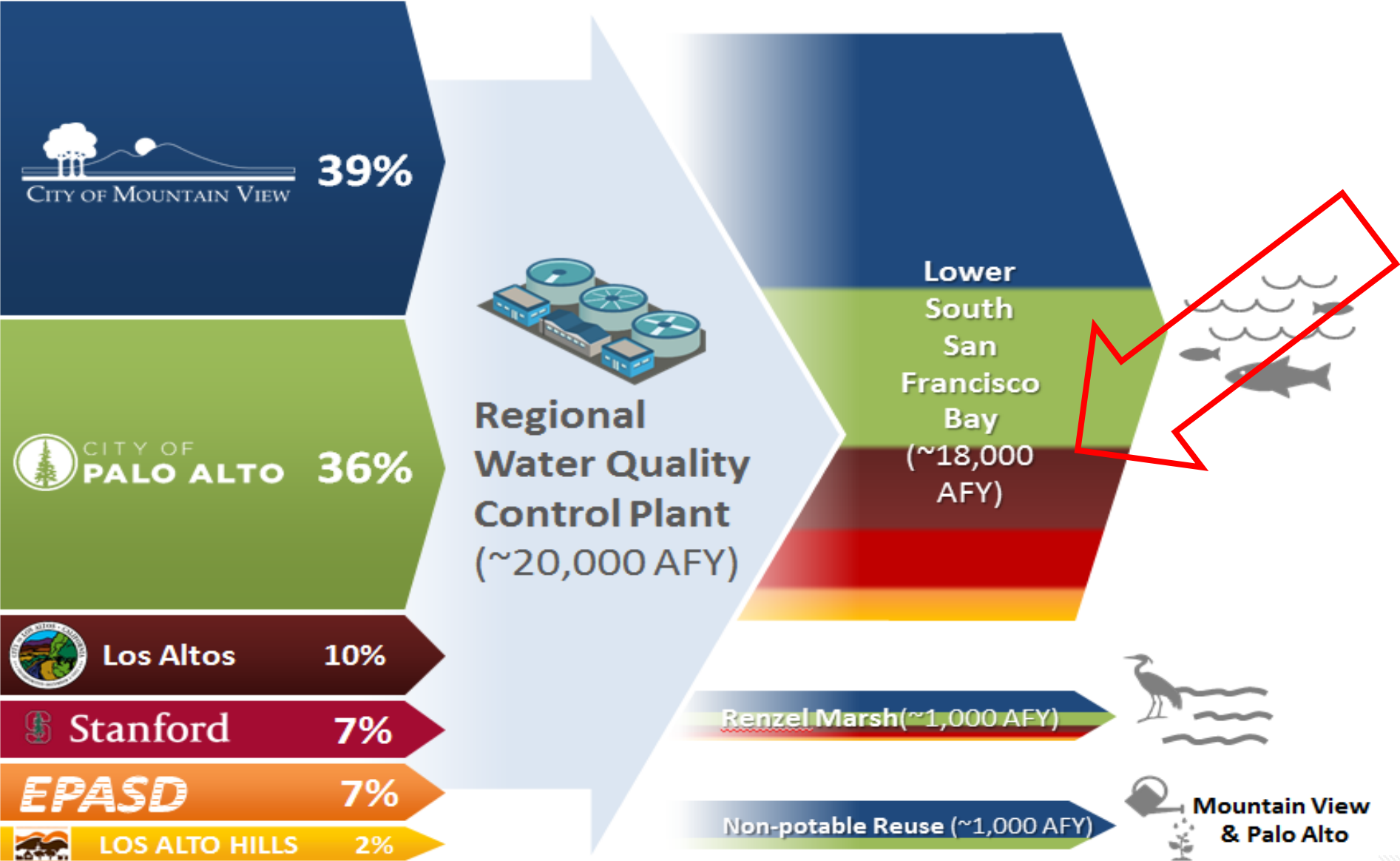
Palo Alto	Los Altos Hills
Town of Los Altos	Stanford University
East Palo Alto San. District	Mountain View

Approximately 5% of wastewater currently used to produce non-potable recycled water for Mountain View & Palo Alto

- Landscape irrigation
- Toilet flushing
- Cooling towers

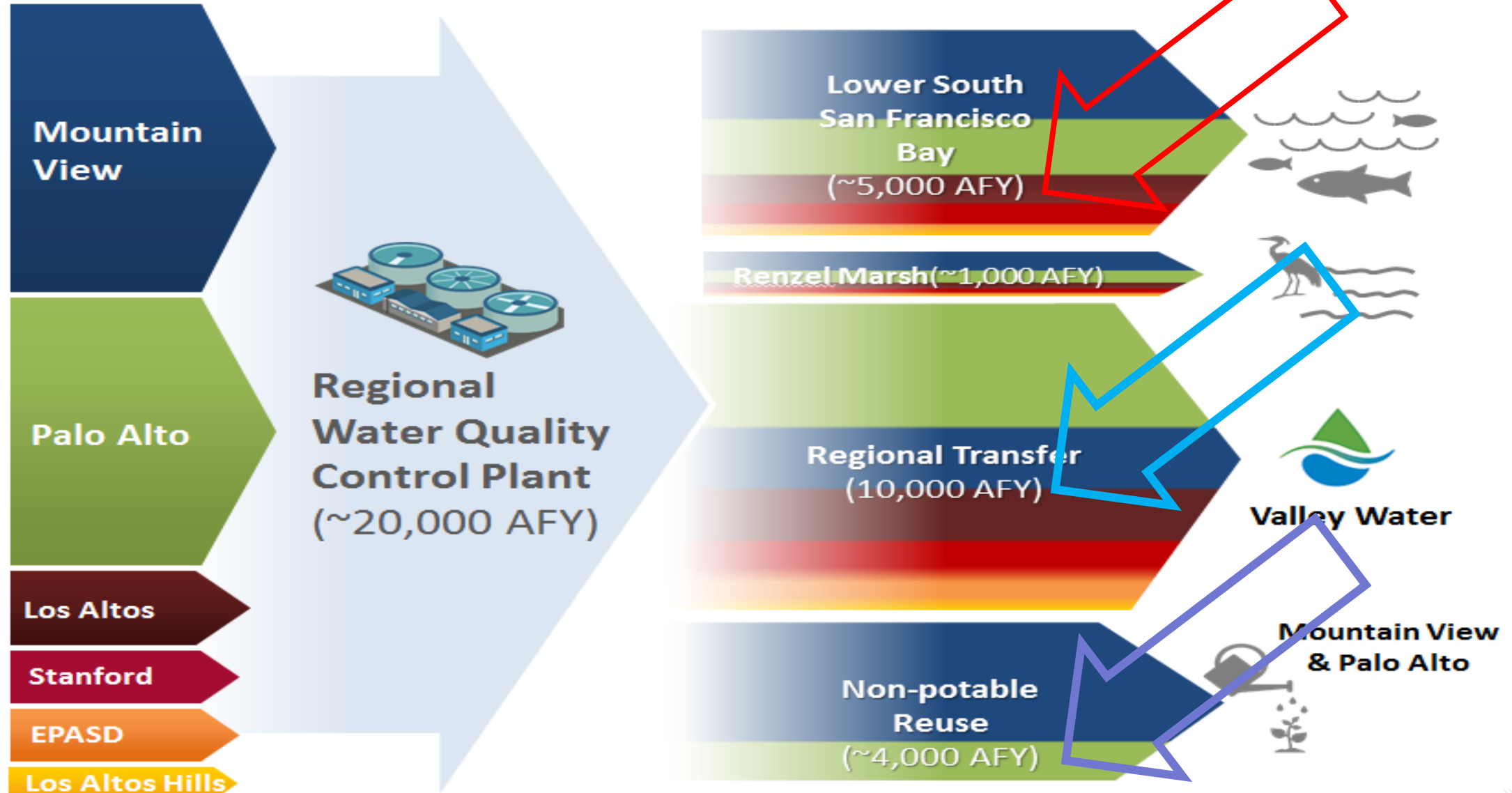


Current Local Recycled Water Program



Regional Transfer of Effluent

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Key Terms of Agreement

Valley Water	RWQCP*
Contributes \$16M for local salt removal facility	Palo Alto and Mountain View to contribute \$4M for local salt removal facility
13 years to build a regional purification facility	13 years to build local salt removal facility
Pays \$200,000/year to RWQCP partners that have committed their effluent (up to 13 years)	RWQCP partners can use funding for water reuse or other water supply programs
Pays \$1M/year for effluent (approx. 10,000 AFY); ability to defer receipt of effluent, but would pay \$1M/year in those years	RWQCP partners transfer 10,000 AFY to Valley Water
May provide alternate water supply to Palo Alto/Mountain View within 16 years, at cost	Palo Alto/Mountain View may request alternate water supply, at cost
First right of refusal to purchase RWQCP	Palo Alto to assist with regulatory permitting for reverse osmosis concentrate (as needed)
Total term of agreement is up to 76 years	Delivery of effluent to Valley Water for 63 years



*RWQCP= Regional Water Quality Control Plant

Environmental Benefits

- Reduces county-wide reliance on imported water
- Reduces water that must be taken from the Tuolumne River
- Improves quality of recycled water in Palo Alto & Mountain View for irrigation
- Reduces concentration of salt applied to the soil and, ultimately, groundwater
- Reduces RWQCP flow & pollutant loading discharged to San Francisco Bay



Recommendation

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- Authorize the Chief Executive Officer to execute the Agreement Between the Santa Clara Valley Water District, the City of Palo Alto and the City of Mountain View to Advance Resilient Water Reuse Programs in Santa Clara County (Agreement).

QUESTIONS





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