

Santa Clara Valley Water District

Purified Water Program Update

April 02, 2018

Item #2

General Overview

***Purpose:** Provide general information and background to assist in future discussions*

***Importance:** As SCVWD continues to develop the program, Council may have a broad interest in various project aspects*

Expedited Purified Water Program (EPWP)

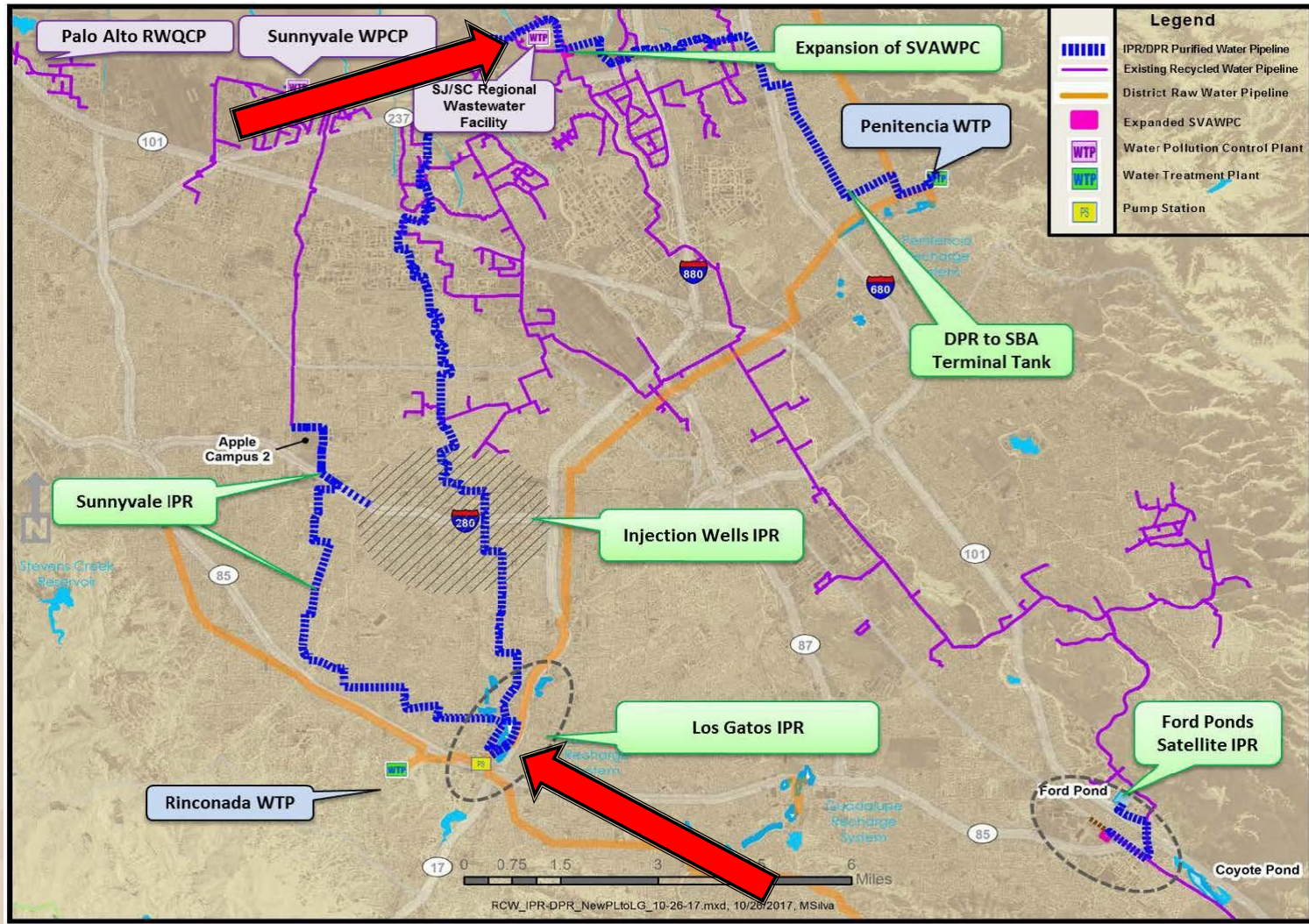
- EPWP is a County-wide program evaluating options to utilize purified water.
- Water Supply Goals:
 - Develop 24,000 AFY of potable reuse by 2025
 - Develop 45,000 AFY of potable reuse by 2040
- Two different methods of potable reuse:
 - Direct Potable Reuse (DPR)
 - Indirect Potable Reuse (IPR)



EPWP – Identified Projects

Project	Est. Costs (M)	Est. Yield (acre-feet)
SVAWPC Expansion	\$346	24,000
Los Gatos Recharge Ponds	\$651	19,200
Los Gatos Ponds/Injection Wells	\$699	19,200
Mid-Basin Injection Wells	\$557	12,000
DPR to South Bay Aquaduct	\$606	19,200
Ford Recharge Ponds IPR Facility	\$120	3,400
Sunnyvale IPR	\$210	10,000
Palo Alto IPR		11,200
County Water Usage Now	-	217,000 AF
County Water Usage 2025	-	396,000 AF
County Water Usage 2035	-	423,000 AF

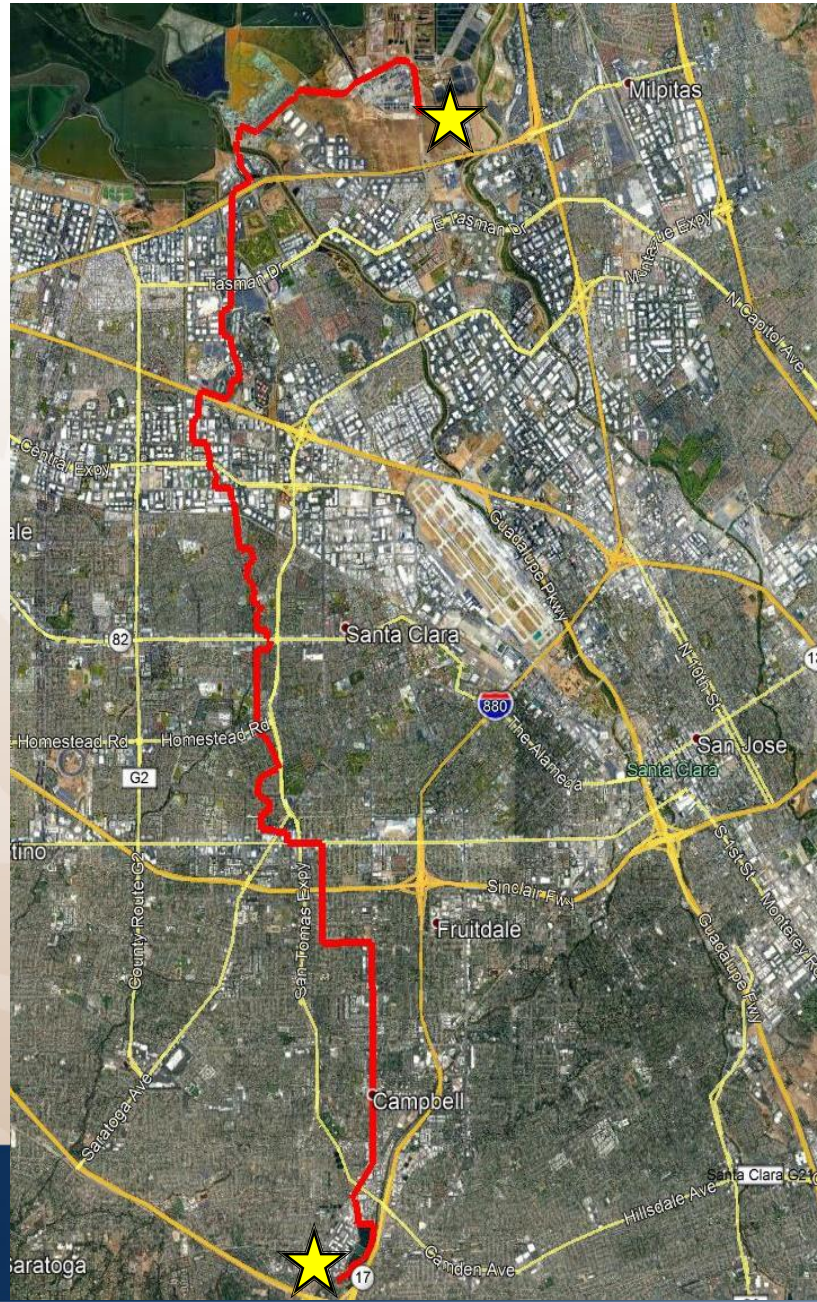
EPWP – Identified Projects



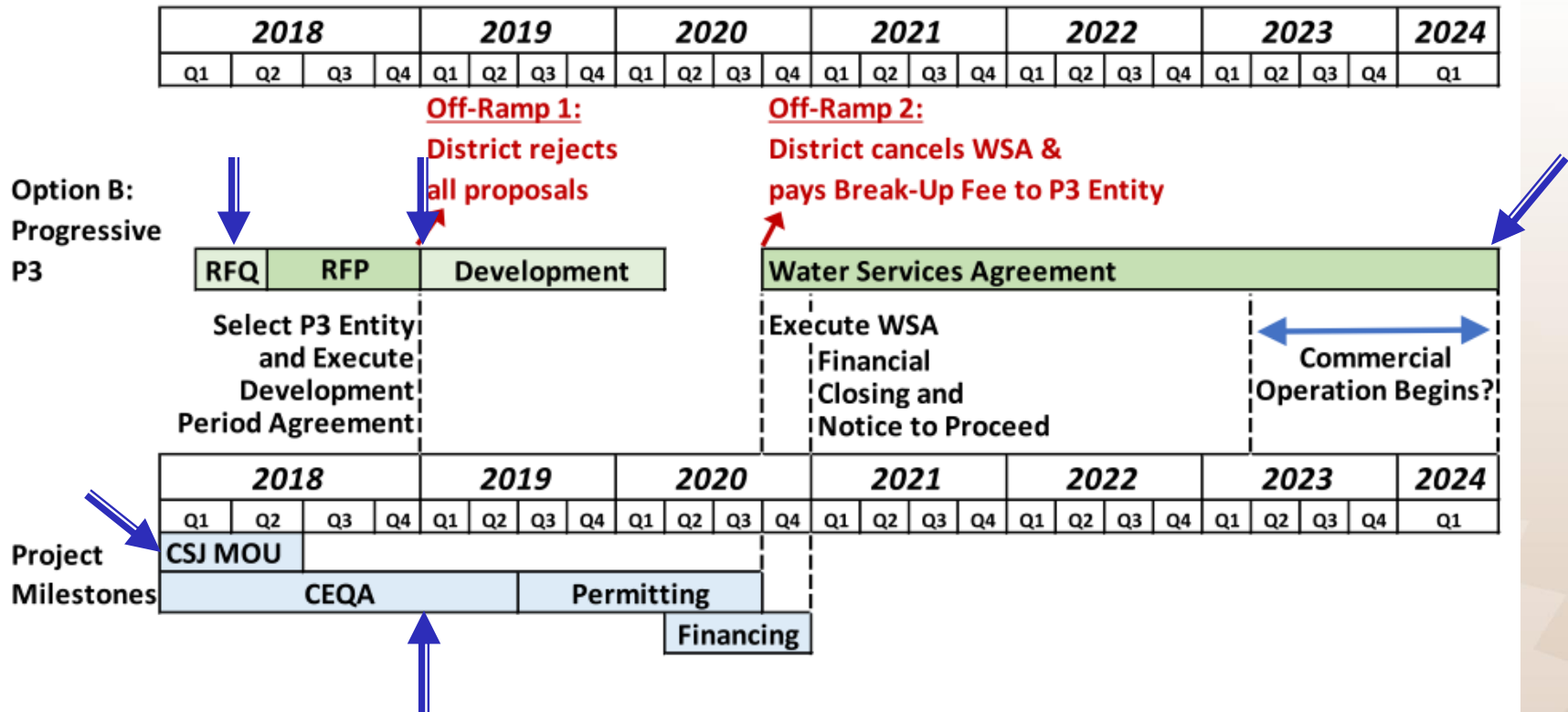
Expanded SVAWPC



Los Gatos Indirect Potable Reuse



Progressive P3 Procurement



NEXT STEPS

- Memorandum of Understanding (MOU)
- Continue to follow SCVWD progress
- Periodically return to T&E with updates

QUESTIONS



Potable Reuse

- Wastewater cleaned through multiple levels on advanced treatment technologies:
 - Microfiltration
 - Reverse Osmosis
 - Ultraviolet light disinfection



Photos - Silicon Valley Advanced Water Purification Center