



Overview of Camp Pendleton's Water Systems for Regional Advisory Committee Meeting

1 Oct 2014

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Camp Pendleton Office of Water Resources



Southern California

Majority of water from:

- State Water Project
- Colorado River System

CAMPEN Water

99% of water is underflow from:

- Santa Margarita River Basin &
- San Mateo & San Onofre Basins



Camp Pendleton Potable Water Infrastructure

(7) Water sheds
(4) Aquifers
(21) Wells (12 south/8 North)
(38) Storage Reservoirs
(2) Adv Water Treatment Plants
(2) I&M Plants
(N/S) Distribution Systems
(8000) Connections
(400) Miles of pipe

INVESTMENT > \$300M over the last 7 yrs

Water Use: Acre Ft = 326,000 gal

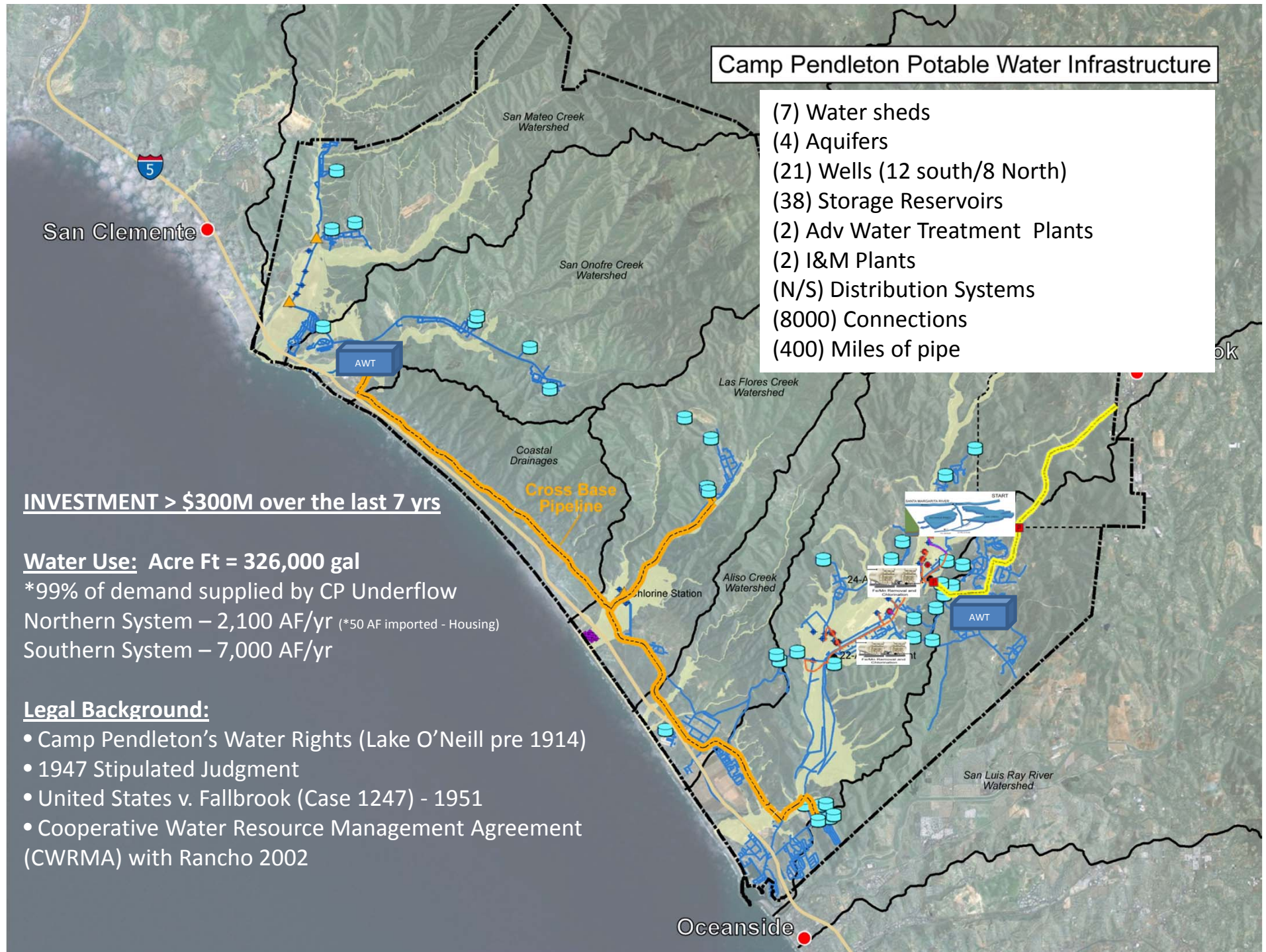
*99% of demand supplied by CP Underflow

Northern System – 2,100 AF/yr (*50 AF imported - Housing)

Southern System – 7,000 AF/yr

Legal Background:

- Camp Pendleton's Water Rights (Lake O'Neill pre 1914)
- 1947 Stipulated Judgment
- United States v. Fallbrook (Case 1247) - 1951
- Cooperative Water Resource Management Agreement (CWRMA) with Rancho 2002



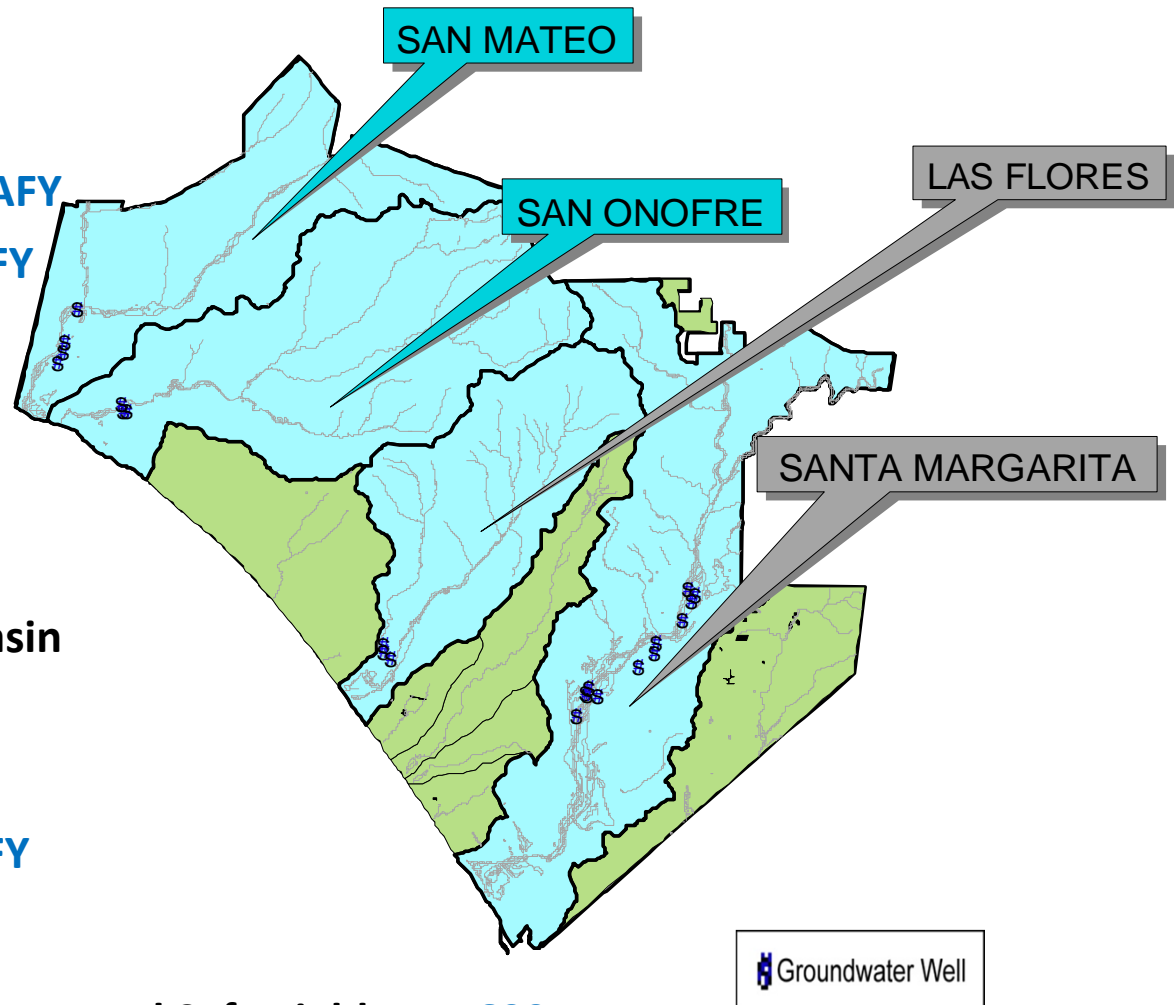
Camp Pendleton's Water Resources

Northern System:

- (3) wells San Mateo Basin
- (3) wells San Onofre Basin
- Safe Yield San Mateo = **2,800 AFY**
- Safe Yield San Onofre = **760 AFY**
- Production = **1.0–1.5 MGD**
- **12,000–15,000 consumers**

Southern System:

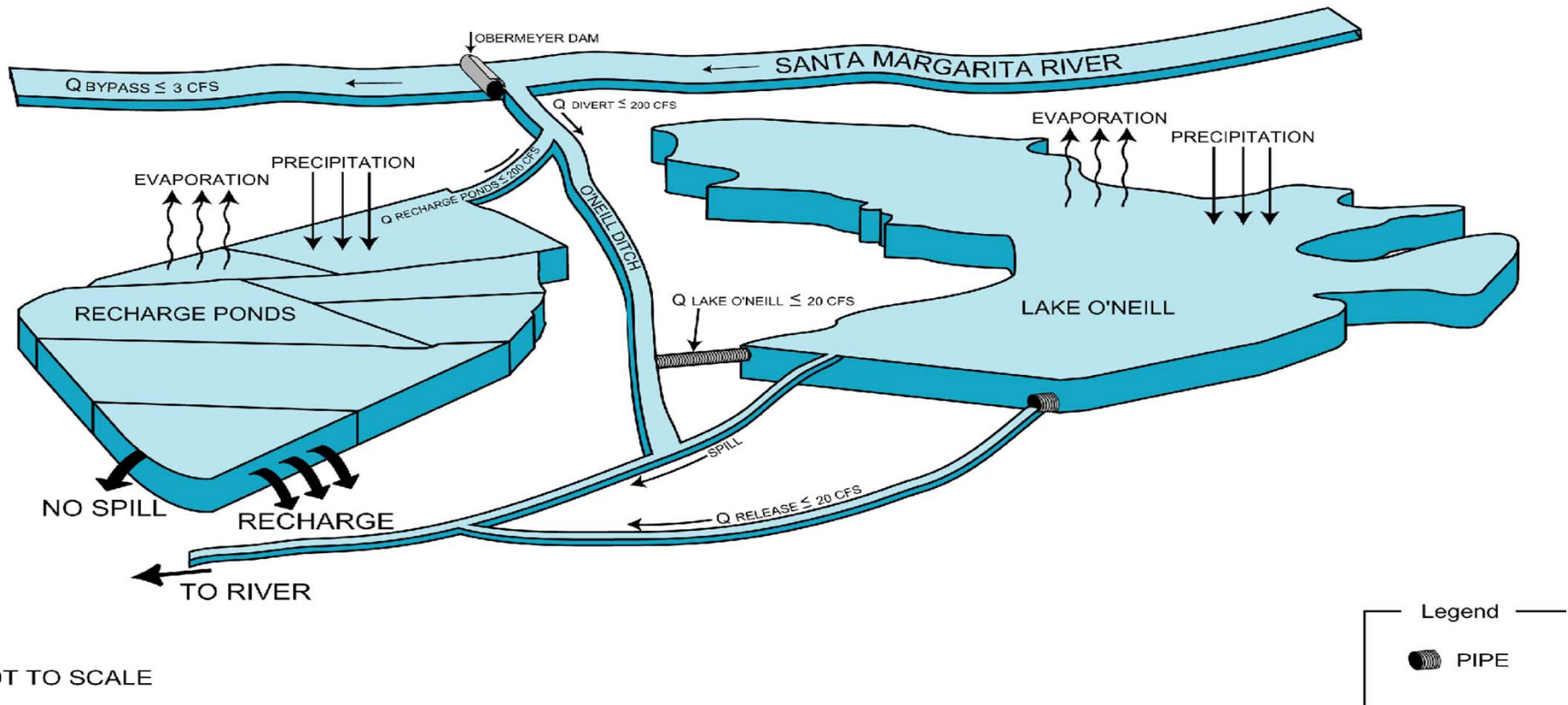
- (12) Wells Santa Margarita Basin
- (3) Las Flores Basin
- Safe Yield SMR = **7,640 AFY**
- Safe Yield Las Flores = **400 AFY**
- Production = **4.1–5.6 MGD**
- **39,000–43,000 consumers**



Total Safe Yield = **11,600 AFY**
Total Production = **7.1 MGD**



Lake O'Neill Reservoir System

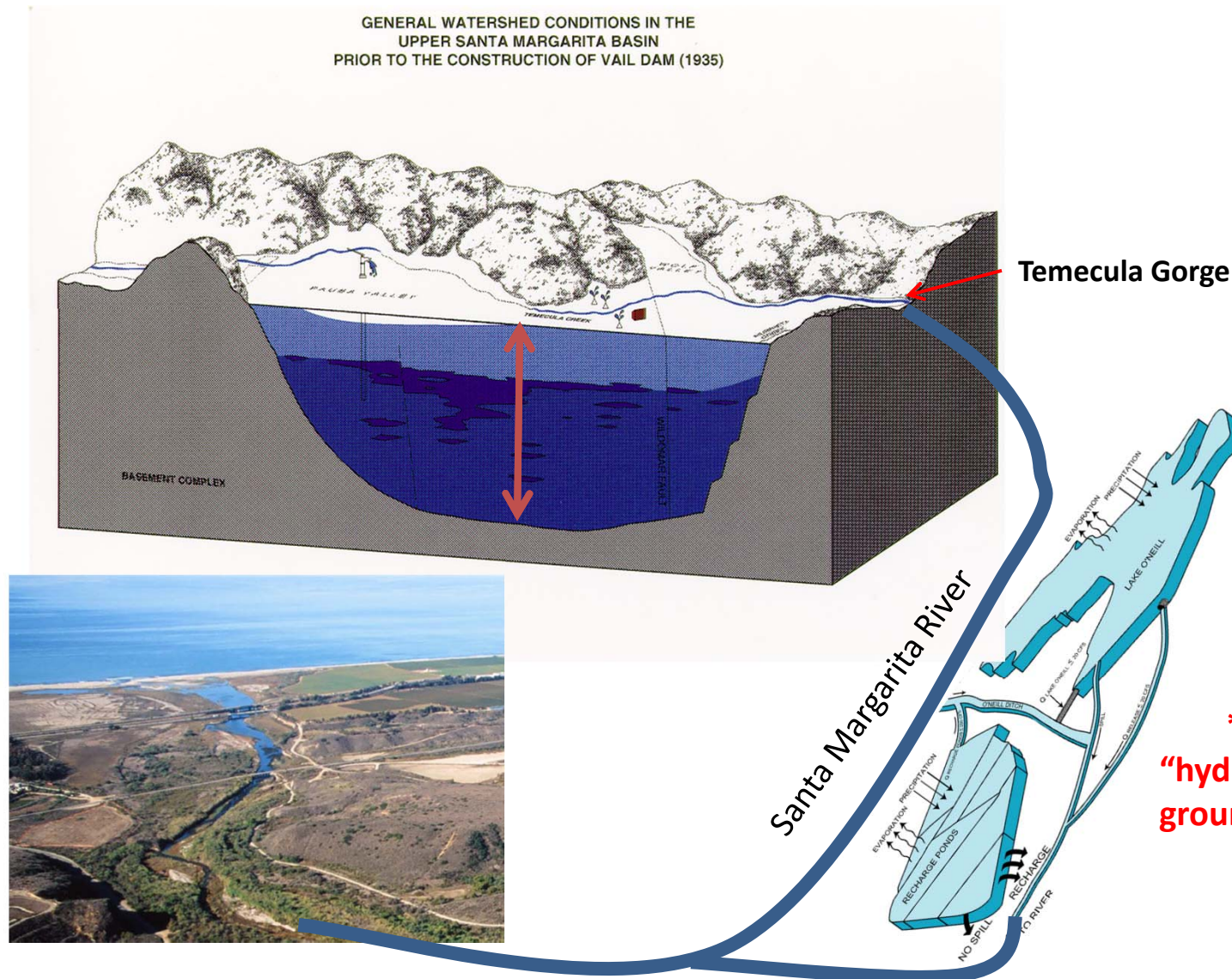


NOT TO SCALE



WATER SECURITY

GENERAL WATERSHED CONDITIONS IN THE
UPPER SANTA MARGARITA BASIN
PRIOR TO THE CONSTRUCTION OF VAIL DAM (1935)



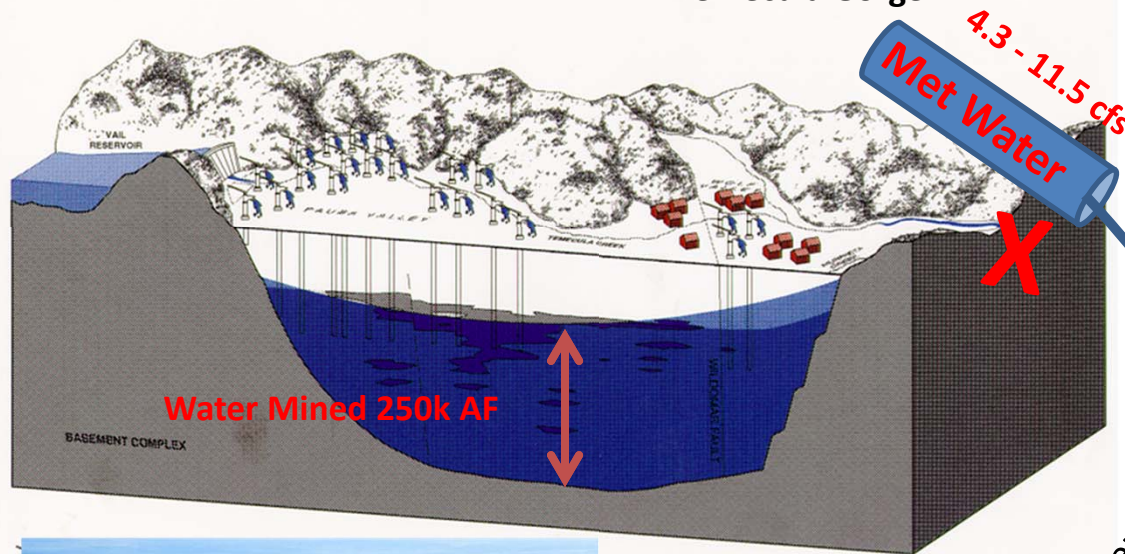


WATER SECURITY



GENERAL WATERSHED CONDITIONS IN THE
UPPER SANTA MARGARITA BASIN
DURING INCREASED DEVELOPMENT (1989)

Temecula Gorge



***Camp Pendleton
NO LONGER “hydraulically
connected” to groundwater flows**

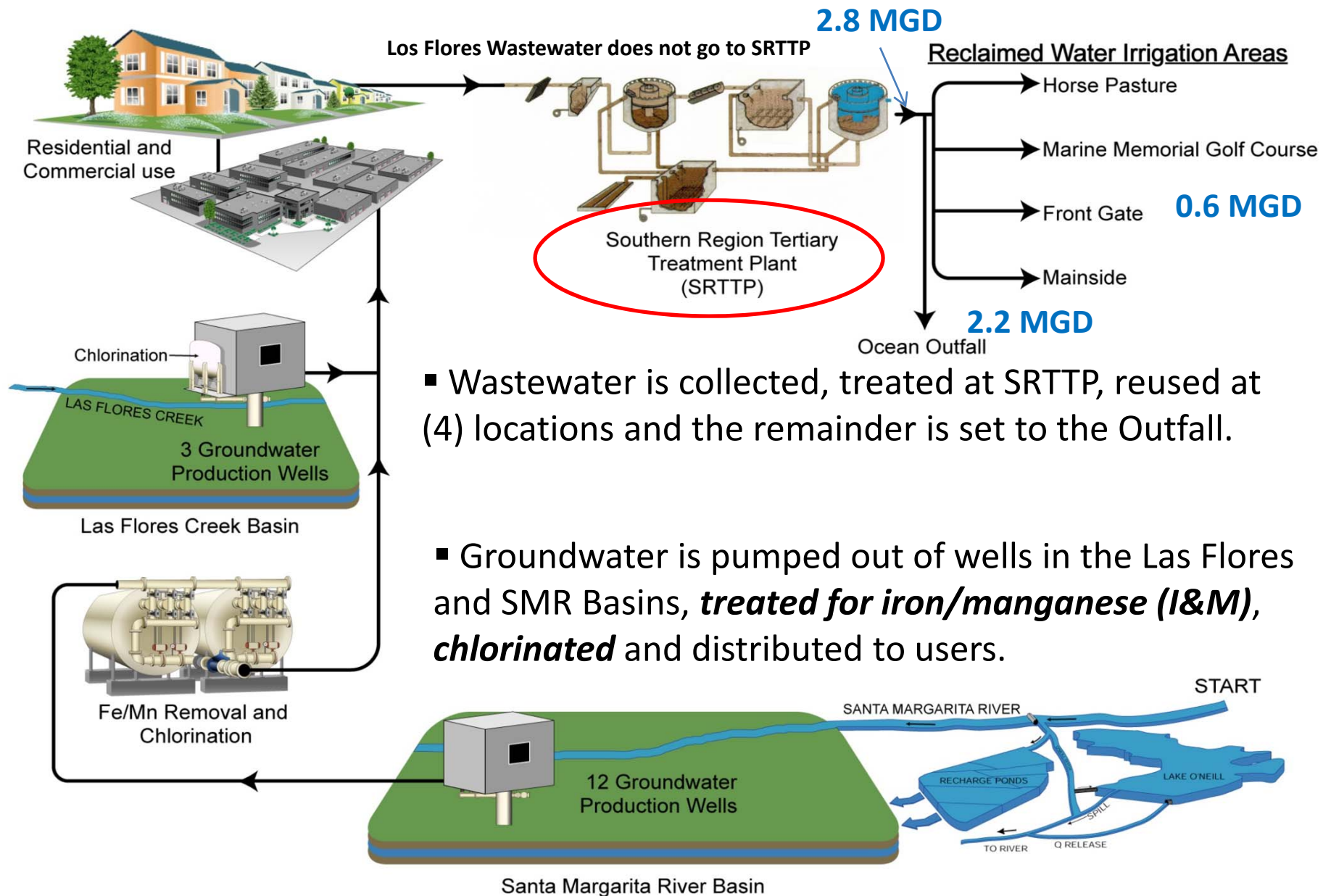


Santa Margarita River



****Camp Pendleton’s
aquifer is now “Colorado
River Water” with 1800
wastewater discharge
permits between here and
the headwaters**

Southern System Water and Wastewater Cycle

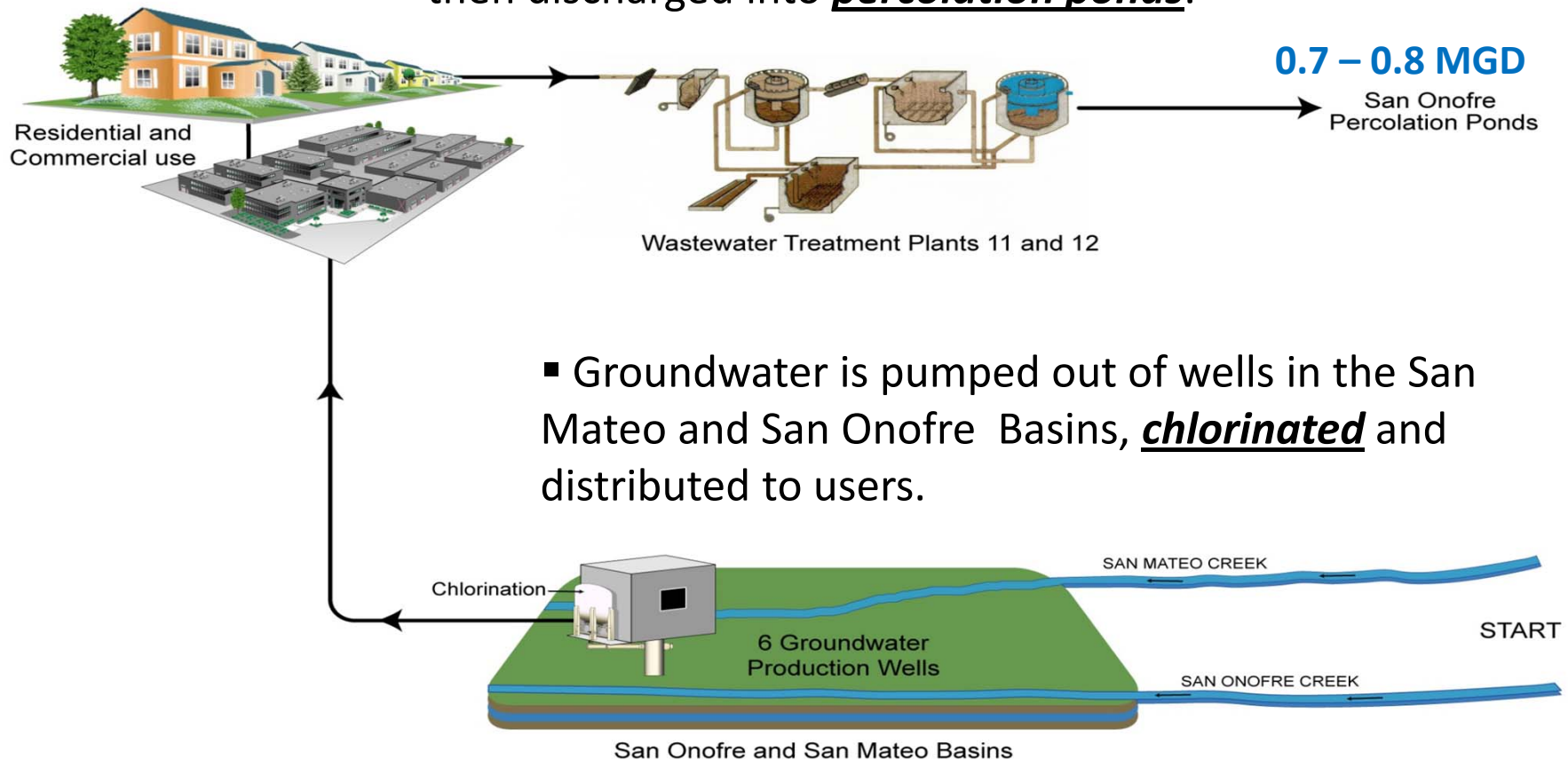


■ Wastewater is collected, treated at SRTTP, reused at (4) locations and the remainder is set to the Outfall.

■ Groundwater is pumped out of wells in the Las Flores and SMR Basins, ***treated for iron/manganese (I&M), chlorinated*** and distributed to users.

Northern System Water and Wastewater Cycle

- Wastewater is collected, treated at STPs 11 & 12 and then discharged into percolation ponds.



- Groundwater is pumped out of wells in the San Mateo and San Onofre Basins, chlorinated and distributed to users.

Conjunctive Use Project (CUP)

- P1220, FY16 MILCON, \$49mil
- Settles 63 year old law suite

Major Components:

1. Expands and improves - Existing diversion, conveyance, recharge facilities
2. New wells
3. Expansion/improvement of raw water sys
4. Constructs a “bi-directional” pipeline
5. Constructs associated pump stations

Project Status (as of Aug 2014):

Environmental Aspects:

- ☐ Currently in ‘consultation’ with NOAA & USFWS on EIS
- ☐ Record of Decision (ROD) on track for Jan 2015
- ☐ Once ROD is signed (CWA 404 permit to start construction)

Construction Aspects:

- ☐ RFP for Design portion of the DBB going out in Sept 2014
- ☐ Construction schedule is designed to meet March 2019 deadline for the sunset of Public Law 111-11 (CUP)

Legal Aspects:

- ☐ Settlement Agreement is at WACO and is tracking concurrently with EIS and requires concurrence among CP, Fallbrook, BUREC and DOJ
- ☐ California State Water Resources Control Board must approve new combined water rights as last step prior to construction





Questions?

