

Update on Implementation of Department of Water Resources (DWR) Sustainable Groundwater Management (SGM) Implementation Grant

Item 21 – October 23, 2024



Arne Anselm
Interim Executive Officer

Background

- January 26, 2022 Board authorized applications to implement projects in the Oxnard Subbasin and Pleasant Valley Basin.
 - Projects selected were based on ranking and scoring by the ad hoc Project Committee
- April 28, 2022 Agency received award notification letters from DWR for funding of \$7.6 million in each of the two basins
- July 20, 2022 meeting, your Board awarded a contract with Kennedy Jenks Consultants, Inc., to conduct grant administration services
- September 2022 Agency and subgrantees entered into grant agreements with DWR

Grant Admin Services

Subgrantee:	Camarillo	FCGMA	PVCWD	UWCD
Subgrant Totals:	\$332,500	\$2,577,800	\$5,810,000	\$6,479,700
Apportionment:	2%	17%	38%	43%
Total Admin Expense (\$229,909):	\$5,029	\$38,991	\$87,880	\$98,009
Percent of Subgrant Amount:	1.51%	1.51%	1.51%	1.51%

Direction for Subgrantees to pay proportional administrative costs was provided by your Board on July 20, 2022

Oxnard Subbasin Grant Projects

Components	Grant Amount	Estimated Total Project Costs
UWCD Ferro-Rose Artificial Recharge of Groundwater	\$2,510,300	\$4,000,000
UWCD Laguna Road Recycled Water Interconnection	\$2,651,500	\$4,225,000
UWCD Monitoring Well Construction and Data Collection	\$1,317,900	\$2,100,000
FCGMA Monitoring Wells Installation (shallow)	\$382,500	\$493,442
FCGMA Multi-Depth Monitoring Wells Installation	\$737,800	\$1,700,580
Total:	\$7,600,000	\$12,624,022

Pleasant Valley Basin Grant Projects

Components	Grant Amount	Estimated Total Project Costs
PVCWD Recycled Water Connection Pipeline	\$5,260,000	\$5,600,000
PVCWD Private Reservoir Program	\$550,000	\$590,000
FCGMA Multi-Depth Monitoring Well Installation	\$1,075,000	\$2,550,158
FCGMA Monitoring Well Installation (shallow)	\$382,500	\$493,442
Camarillo Stormwater Diversion to WRP Feasibility Study	\$332,500	\$350,000
Total:	\$7,600,000	\$9,698,600

Grant Funding by Agency

Agency	Total Grand Funding	Estimated Total Project Costs
Camarillo	\$ 332,500	\$ 350,000
FCGMA	\$ 2,577,800	\$ 5,237,622
Pleasant Valley County Water District	\$ 5,810,000	\$ 6,190,000
United Water Conservation District	\$ 6,479,700	\$10,325,000
Total	\$15,200,000	\$22,102,622

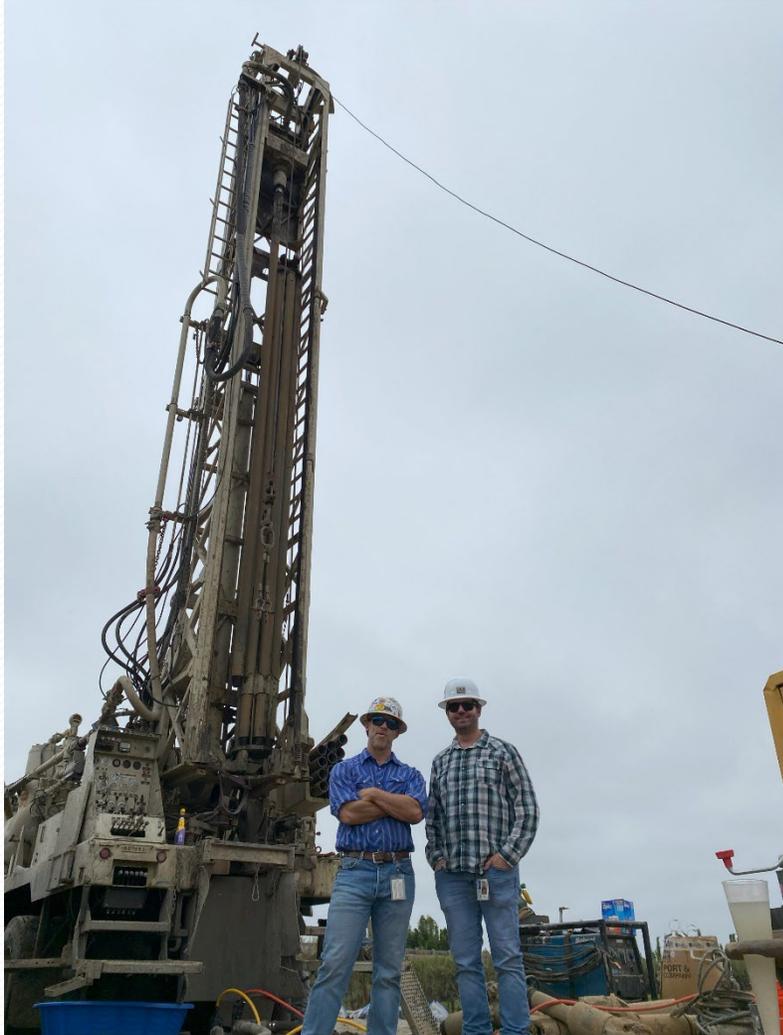
Subgrant Agreements

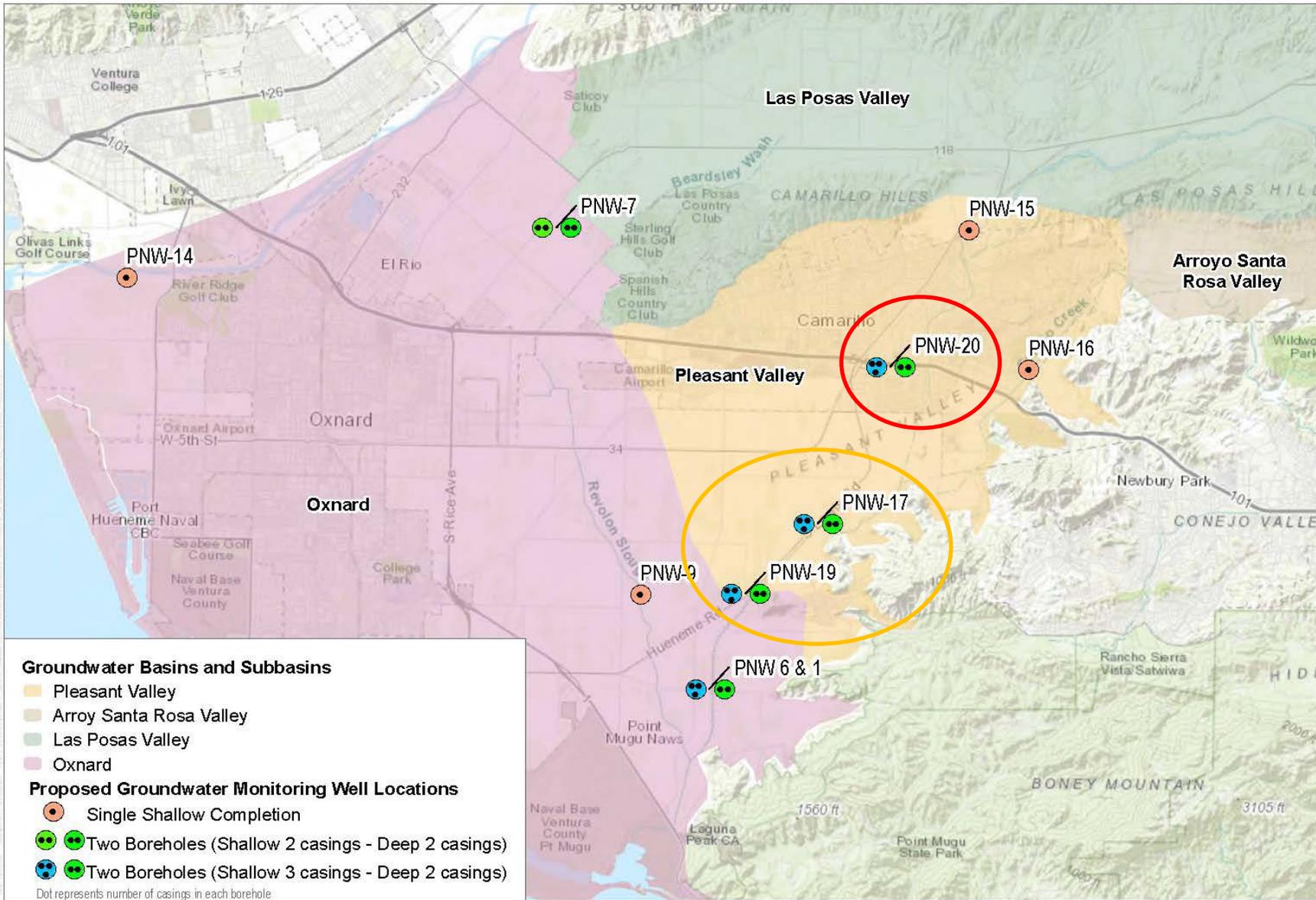
- The Subgrant Agreements flow down the provisions of the Grant Agreements between DWR and the Agency
- The Subgrantee Agreements with
 - City of Camarillo,
 - Pleasant Valley County Water District, and
 - United Water Conservation District
- The Subgrant Agreements protect the Agency
- Agency remains Project Representative and Grant Manager

SGM Round 1 Grant

- DWR required only a single agency could apply within a basin
- March 31, 2025 – project end date
- April 2025 - Final invoices and deliverables received by DWR
- June 30, 2025 - DWR close out grants
- Funding set by legislature – time extensions unlikely

FCGMA Monitor Well Drilling 2024 – SGM Grant





SOURCE: ESRI

DUDEK



FIGURE 1

Region Map of Proposed Well Locations

Technical Specification - Groundwater Monitoring Wells

- Site 20 was removed
- Sites 17 and 19 encountered bedrock at relatively shallow depths of ~ 600 and 350 ft below ground surface
- **Significant** cost savings resulted

Cost Savings and Good Project Management

- The initial decision to remove well site 20 resulted in approximately \$270,000 in cost savings
- Shallow bedrock at site 17 and 19 resulted in nearly \$2,000,000 of additional cost savings
- Noise mitigation was not used
- Discharge tanks were also in scope, but not used at shallow sites
- This resulted in approximately \$425,000 of cost savings
- Project was managed by County Staff, resulting in an additional ~\$800,000 of cost savings (not scoped)



In Summary

- Very professional drilling crew from Wild Heron Drilling
- County Project Manager John Gauthier, supported by FCGMA staff did a great job
- Easy drilling with minimal complications
- Project nearing completion – wells have been drilled and constructed
- Last steps are final submittals to DWR, digitizing well logs, and instrumenting the wells with data loggers
- FCGMA will then take over monitoring



Update on SGMA Implementation Grant *PVCWD*

October 22, 2024



Pleasant Valley County
Water District 

Overview and Background

Grant Agreement. Start of agreement, September 14, 2022, and final invoice by June 30, 2025

Description	PVCWD Recycled Water Connection Pipeline (Component 2)	PVCWD Private Reservoir Program (Component 3)
Grant Amount	\$5,260,000	\$550,000
Objective	PVCWD Recycled Water Connection Pipeline funds a new pipeline, minimum of 5,300 feet, from Wood Rd to Las Posas Rd along Laguna Rd. <i>Actual pipe is approximately 8,000 feet.</i>	Incentivize the utilization of existing private reservoirs to capture surface water during rain events and optimize current reservoir management.
Benefit	Increase the volume of water that can be harvested from the Conejo Creek when it is available and maximize use of available City of Oxnard recycled water. Provides for a more “effective and efficient” use of the water by connecting existing transmission mains and providing future connection to UWCD.	Increase annual winter flow harvesting by an estimated 500 AFY.

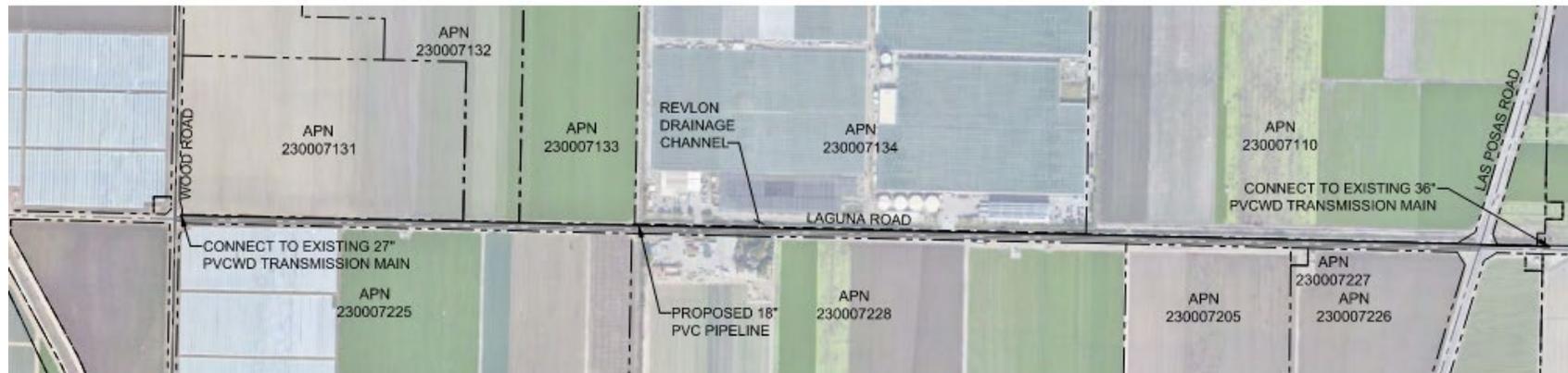
Project Overview: *PVCWD Recycled Water Connection Pipeline*

Work Completed:

- Preliminary Design Report
- Hydraulic Modeling
- Environmental Documentation (IS-MND)
- Final Design

Current Status:

- Construction Awarded December 2023
- Estimated Completion November 2024
- Budget Spent/Contracted \$3.25M (60%)



PLAN

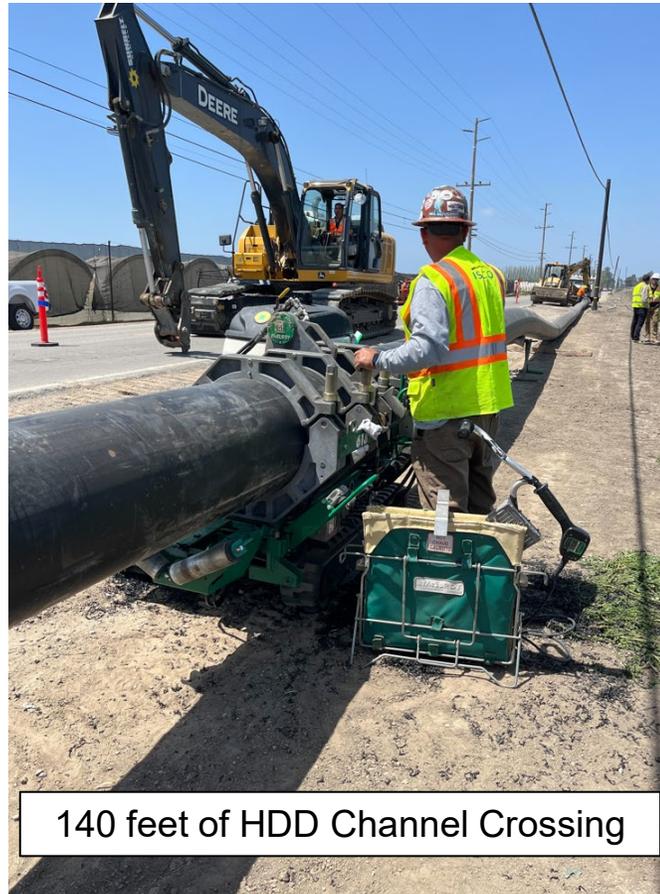
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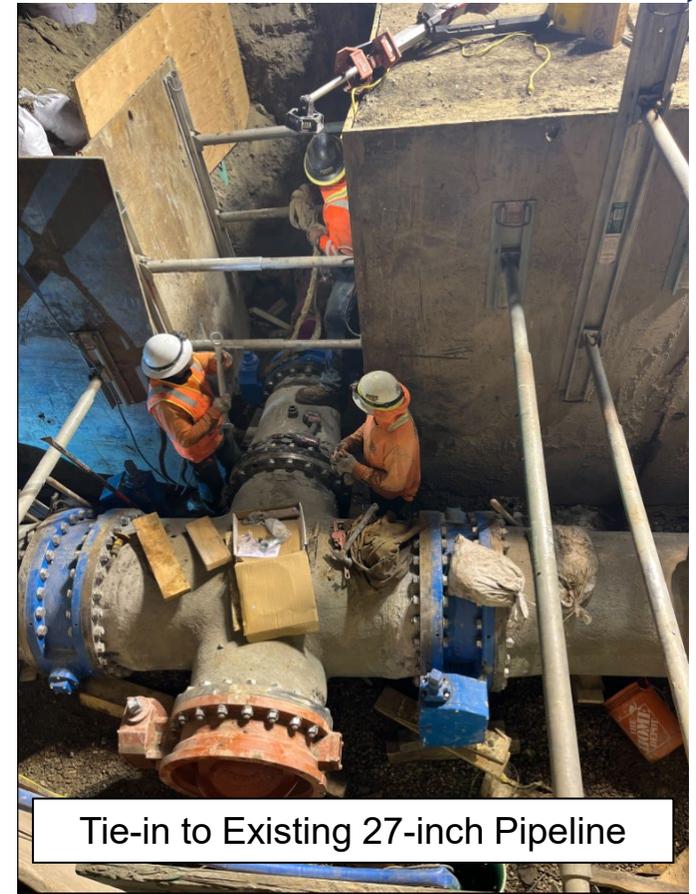
Project Overview: *PVCWD Recycled Water Connection Pipeline*



18-inch Diameter RW Pipeline



140 feet of HDD Channel Crossing



Tie-in to Existing 27-inch Pipeline

Project Overview: *Private Reservoir Program*

Work Completed:

- Private Reservoir Program TM
- Outreach and Pilot Program
- Reservoir Management

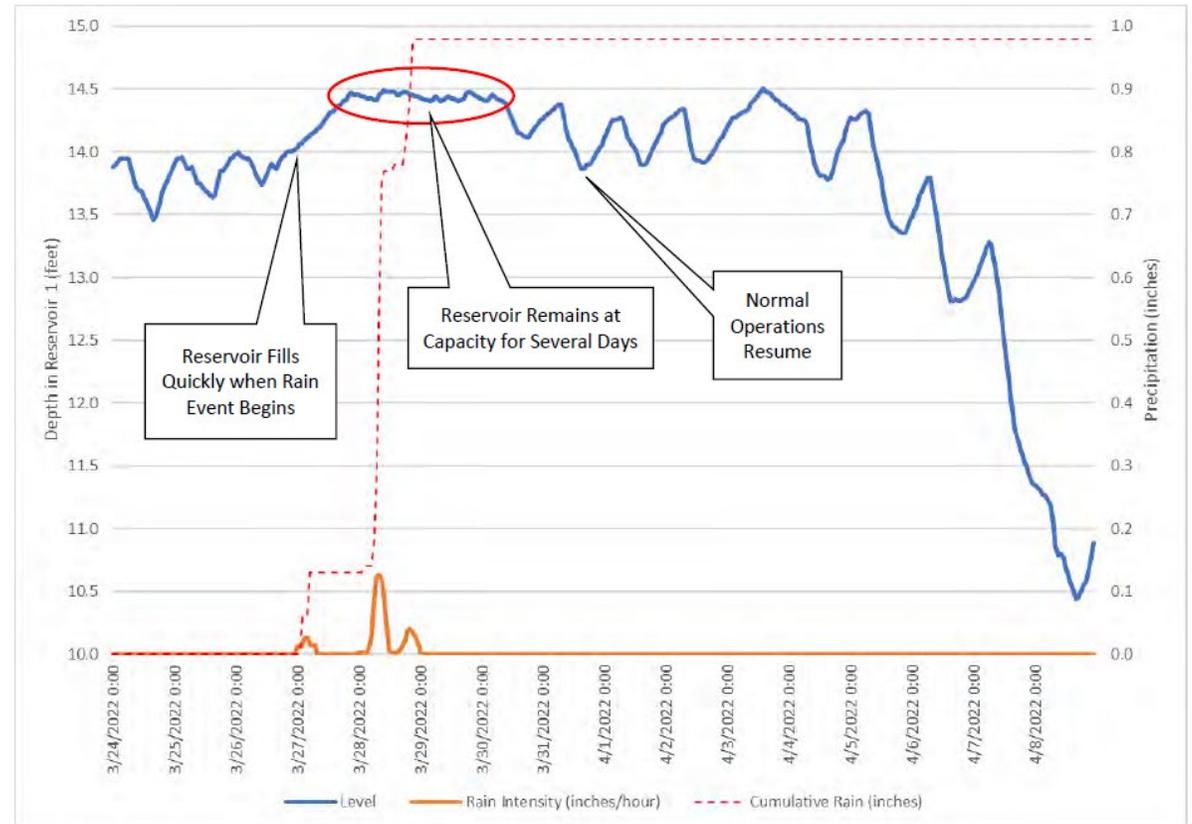
Current Status:

- 7 Pilot Meters Installed
- 560 AF utilized in Pilot Program
- 440 AF captured through Reservoir Management Modifications
- Budget Spent/Contracted \$200k (43%)



Reservoir Management

- Implement Weather Tracking during wet season
- Modify reservoir min level to calculated level ahead of classified rain events (>1")
- Creates approximately 100 AF of additional storage
- Increases RW and Surface Water supplies during decreased demand post rain event (5 days)



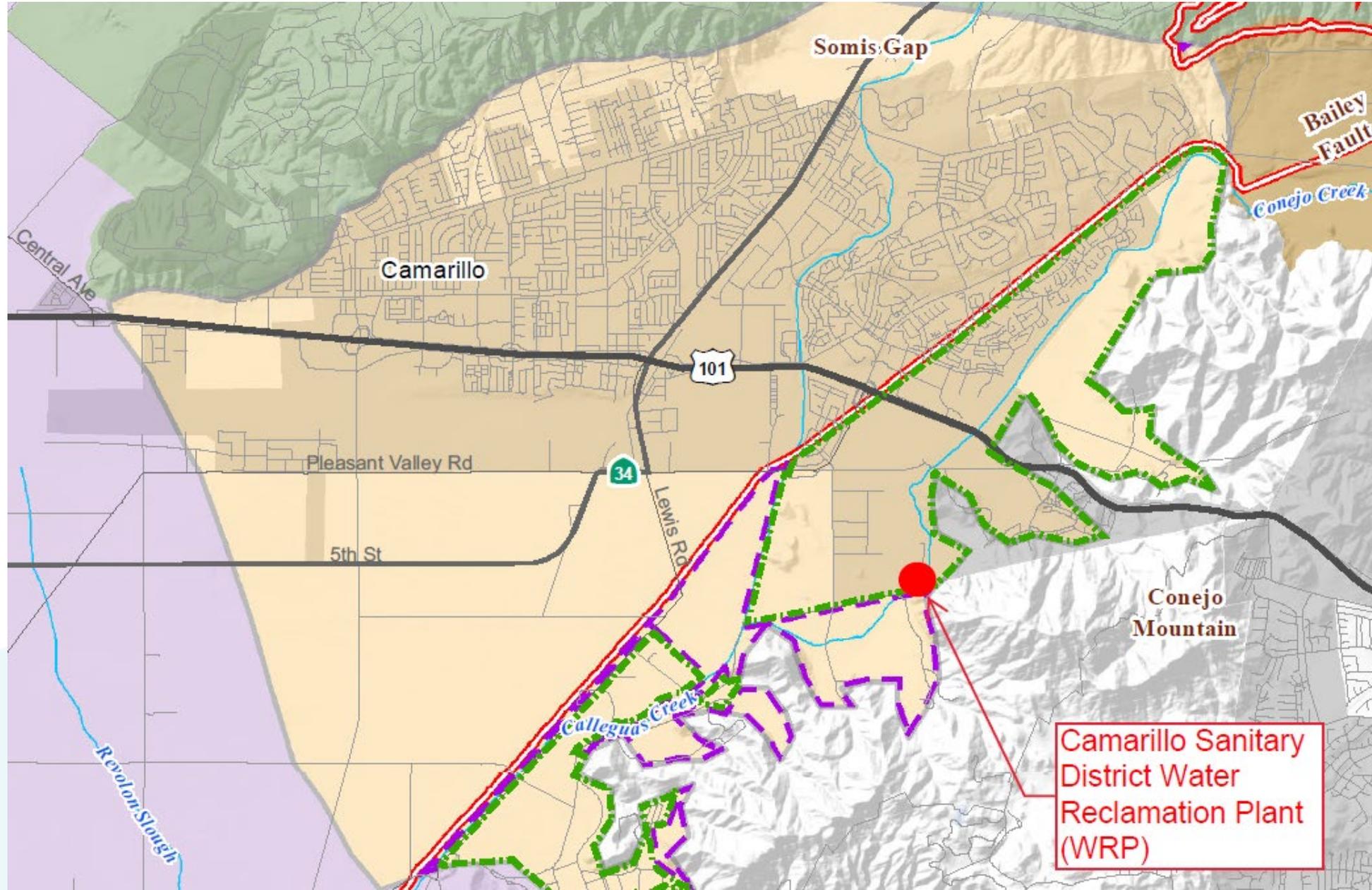
Camarillo Stormwater Diversion to Water Reclamation Plant (WRP) Feasibility Study



Overview

- Purpose: Feasibility Study to investigate diverting dry weather and initial stormwater flows from the City's stormwater drainage system to the Camarillo Sanitary District (CSD) Water Reclamation Plant (WRP) for potential increased recycled water production.
 - \$332,500 grant Award
 - Water Systems Consulting performing study
 - Status: Finalizing Feasibility Study draft
 - Schedule: On schedule to submit draft report to State by 11/30, and final report to State by 2/28/25
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Camarillo Sanitary District WRP



Water Reclamation Plant (WRP)





Update on UWCD's Projects Supported by DWR SGM Sustainable Groundwater Management Act Implementation Grant

Maryam Bral, PhD, PE
Chief Engineer
United Water Conservation District



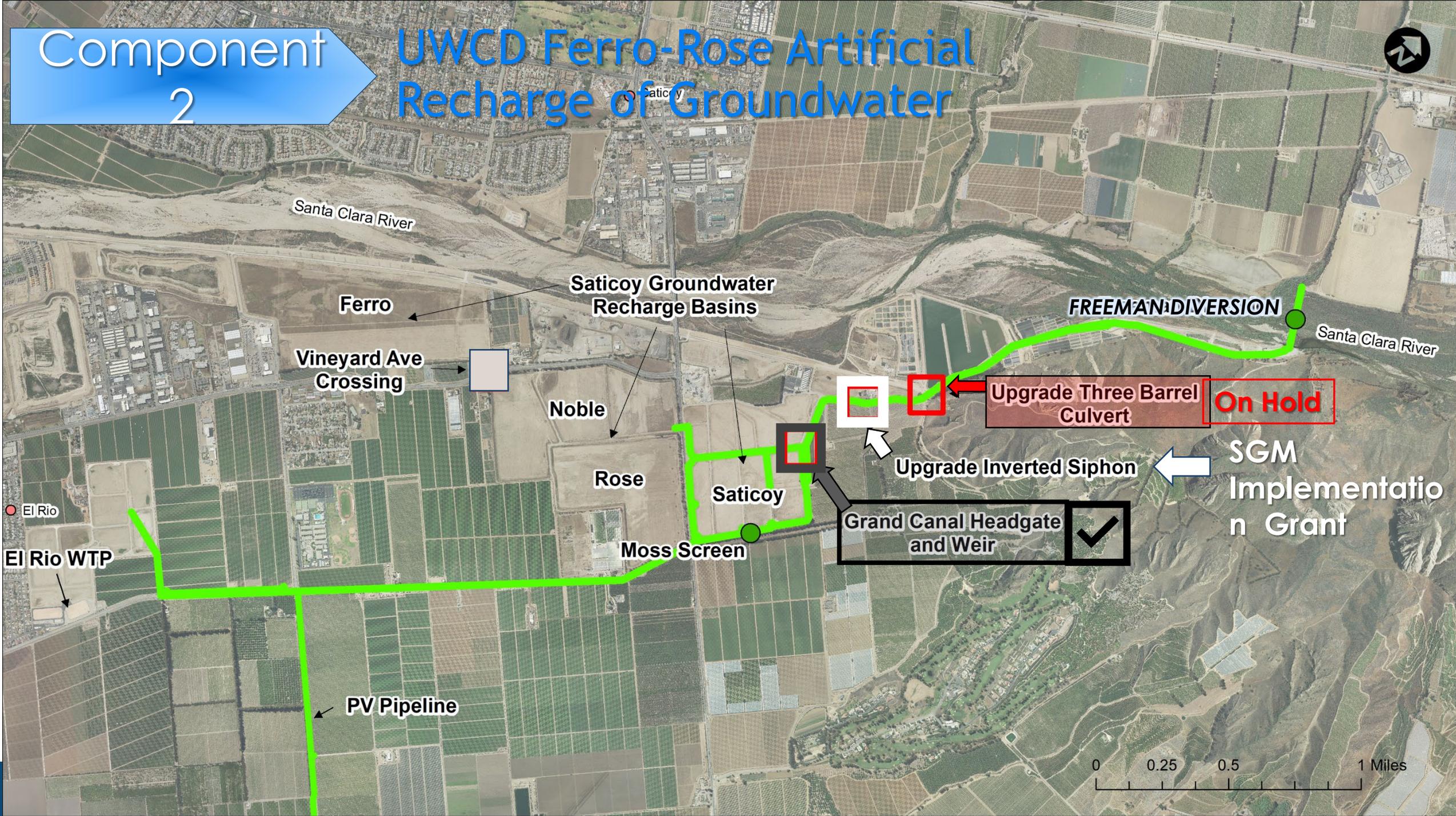
UWCD's Projects – Oxnard Subbasin

Initial Project Costs and Grants Award

Components	Total Project Cost	Grant Amount
2. UWCD Ferro-Rose Artificial Recharge of Groundwater	\$4,000,000	\$2,510,300
3. UWCD Laguna Road Recycled Water Interconnection	\$4,225,000	\$2,651,500
4. UWCD Monitoring Well Construction and Data Collection for Design of Extraction Barrier and Brackish Water Treatment	\$2,100,000	\$1,317,9000
Totals	\$10,325,000	\$6,479,700

Component 2

UWCD Ferro-Rose Artificial Recharge of Groundwater



Santa Clara River

Ferro

Saticoy Groundwater Recharge Basins

FREEMAN DIVERSION

Santa Clara River

Vineyard Ave Crossing

Upgrade Three Barrel Culvert

On Hold

Noble

Upgrade Inverted Siphon

SGM Implementation Grant

Rose

Saticoy

Grand Canal Headgate and Weir



Moss Screen

El Rio

El Rio WTP

PV Pipeline

0 0.25 0.5 1 Miles

Component 2

UWCD Ferro-Rose Artificial Recharge of Groundwater



Inverted Siphon Replacement

Component 2

UWCD Ferro-Rose Artificial Recharge of Groundwater



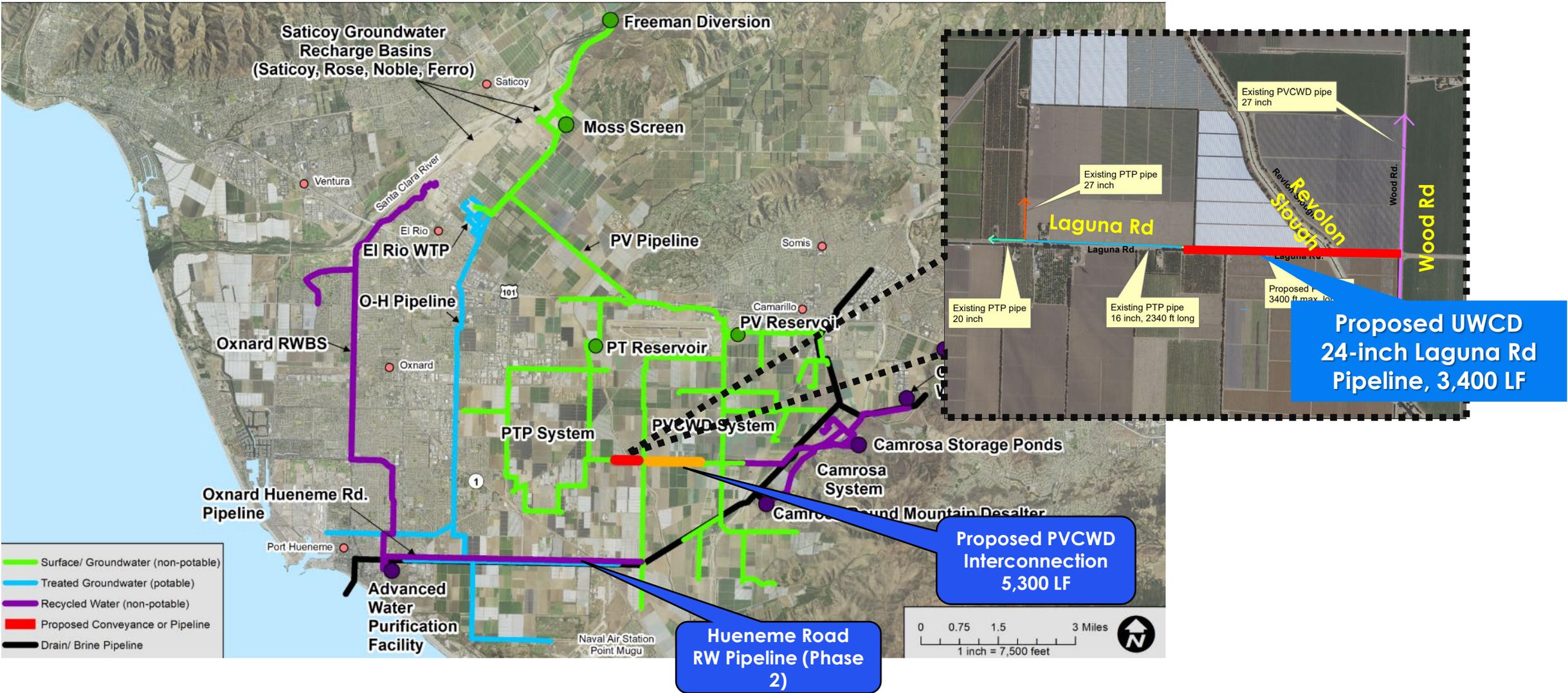
DWR
Staff
Site
Visit

New Bridge Construction is Complete



Component 3

UWCD Laguna Road Recycled Water Interconnection



Component 3

UWCD Laguna Road Recycled Water Interconnection

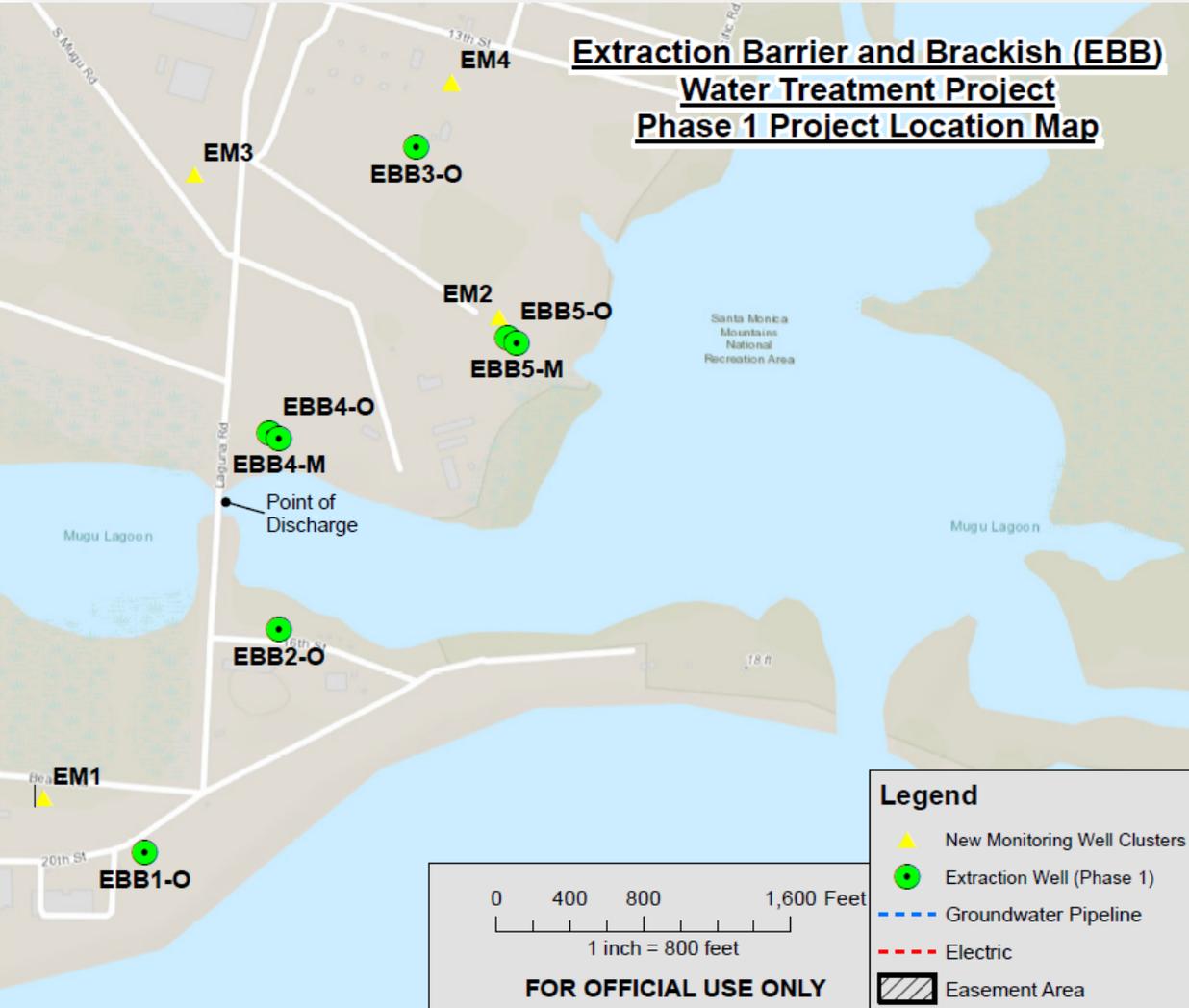
- May 15, 2024 - Construction Management Agreement Executed
- Jun 12, 2024 – CEQA/ Final IS/MND Adoption
- Jul 11, 2024 – Final Design Completed
- Jul 24, 2024 – Issued for Bids
- Sep 10, 2024 – Opened Bids
- Oct 9, 2024 – Construction Contract Award
 - Low Bid: \$5,092,286
 - Budget Shortfall: ~\$1.99 million
 - Surplus Grant Fund Transfer ongoing
- Oct 22, 2024 - Letter of Request for transferring Surplus Grant Funds submitted to FCGMA/DWR



Component 4

UWCD Monitoring Well Construction & Data Collection for Design of EBB WTP

Extraction Barrier and Brackish (EBB) Water Treatment Project Phase 1 Project Location Map



FCGMA Staff Site Visit

Component 4

UWCD Monitoring Well Construction & Data Collection for Design of EBB WTP



Component 4

UWCD Monitoring Well Construction & Data Collection for Design of EBB WTP

Construction of Monitoring Wells is Complete

- 10 Semi-Perched Wells
- 6 Oxnard/4 Mugu Wells
- 1 Fox Canyon Piezometer
- 2 Exploratory Boreholes
- Remaining Work**
 - Pumping Tests
 - Demobilization



DWR Staff Site Visit

UWCD's Projects – Oxnard Subbasin Schedule

Projects	2021				2022				2023				2024				2025							
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4				
Component 2: Inverted Siphon Replacement					Design						CEQA/Permits		Construction											
Component 3: Laguna Road Recycled Water Interconnection									Design				CEQA/Permits		Construction									
Component 4: Monitoring Well Construction & Data Collection						CEQA/Permits					Design		Construction											

Today

UWCD's Projects – Oxnard Subbasin

Updated Project Costs and Grants Award

Components	Total Project Cost	Grant Amount
2. UWCD Ferro-Rose Artificial Recharge of Groundwater	\$4,000,000	\$2,510,300
Update (approximation)	\$1.3 million	\$1.01 million
3. UWCD Laguna Road Recycled Water Interconnection	\$4,225,000	\$2,651,500
Update (approximation)	\$6.8 million	\$4.61 million
4. UWCD Monitoring Well Construction and Data Collection for Design of Extraction Barrier and Brackish Water Treatment	\$2,100,000 (approx.)	\$1,317,900
Totals	\$10,325,000	\$6,479,700
Totals (UPDATE) (approximation)	\$12.9 million	\$6.94 million

\$1.5M
Intra-Basin
Transfer
(Oxnard
Subbasin)
+
\$0.46M
Inter-Basin
Transfer (PV
Basin)



Thank You!

Maryam Bral, PhD, PE
Chief Engineer

United Water Conservation District

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Grant Completion Schedule

- March 15 – Draft Component Completion Reports due to DWR
- **March 31 – Last possible day for work performed on project** (must be certified as complete)
- April 1 – All invoices and project deliverables due to Grant Administrator
- April 15 – Final Component Completion Report and Draft Grant Completion due to DWR
- April 30 – Final Grant Completion Report due to DWR
- April 30 – Final Invoice due to DWR
- June 30 – All funds to be paid by DWR (including retention)



Questions?