Pumping Trough Pipeline (PTP)

Users Meeting

May 14, 2019



AGENDA

PUMPING TROUGH PIPEL INE USERS' MEETING

Tuesday, May 14, 2019 9:00 a.m.

Camarillo Library Community Room, 4101 Las Posas Road, Camarillo

1. Greeting from United Water General Manager (5 minutes)

Mauricio E. Guardado, Jr.

2. Pumping Trough Pipeline Operations (10 minutes)

Brian Collins, Operations and Maintenance Manager

- 2.1. Public Safety Power Shutdown (PSPS)
- 2.2. Generator Purchase Proposal
- 2.3. Surface Water Deliveries
- 3. Recycled Water (25 Minutes)

Robert Richardson, Associate Engineer
Jeff Densmore, District Engineer, SWRCB DDW

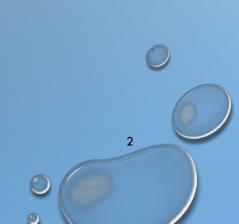
- 3.1. Plans for Conversion
- 3.2. Cross Connection Compliance
- 3.3. Proposed Recycled Water Conveyance
- 4. Turnout Metering System Improvement Project (10 Minutes)

Robert Richardson, Associate Engineer

- 4.1. PTP Meter Easement
- 5. Proposed Budget Status (10 Minutes)

Joseph Jereb, Chief Financial Officer

- 5.1. Fiscal Year 2019-20 Preliminary Budget
- 6. Questions





WELCOME

UWCD General Manager

Mauricio Guardado Jr.







PUMPING TROUGH PIPELINE OPERATIONS

SYSTEM STATUS

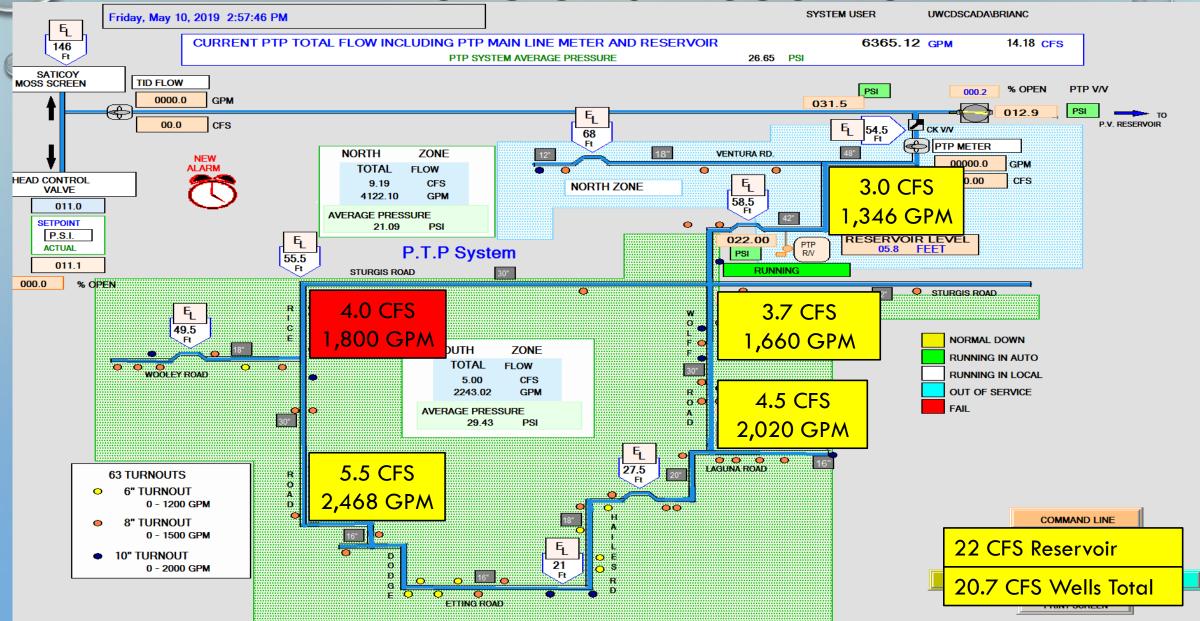
Brian Collins
Operations & Maintenance Manager
UWCD

PTP Well Flows & Static Levels

6	
6	
-	

	April 2017	Apr-18	Apr-19
	Flow/Static Level	Flow/Static Level	Flow/Static Level
PTP #1	3.9cfs / 178'	*3.4cfs / 156'	4.5cfs / 121'
PTP #2	3.1cfs / 192'	3.0cfs / 165'	3.0cfs / 156'
PTP#3	4.7cfs / 156'	*3.7cfs / 167'	3.7cfs / 154'
PTP#4	5.9cfs / 119'	5.6cfs / 168'	*4.0cfs / 130'
PTP #5	4.6cfs / 124'	5.5cfs / 155'	5.5cfs / 122'

PTP Wells and Reservoir





- Preliminary analysis indicates bearing issue
- Reduced production
- Harsh water Chemistry
- Preliminary estimate \$74,000- Using PTP emergency funds included in 18-19 budget for well repairs
- No current SCE incentives available

PTP System Water Quality

FGL AGRICULTURAL ENVIRONMENTAL

February 5, 2019 United Water Conservation Dist

Customer ID

Lab ID SP 1901132-001 12000200

Attn: Mike Ellis 106 N. 8thSt. Santa Paula, CA 93060

Sampled On ; January 24, 2019 Sampled By : Ruben Sanchez Received On : January 24, 2019

: 01N21W06J05S:PTP Well #3 Description Project : Pumping Through Pipeline

: Ground Water

	_			1 E a cron	13 ditas int	y Analysis			
Test Description		Re	sult				al Results Presentation		
Cations	mg/L	Meq/L		Lbs/AF	Good	Possible Problem	Moderate Problem	Increasing Problem	Severe Problem
Calcium	55	2.7	30	150	**				
Magnesium	24	2	21	65	**				
Potassium	4	0.1	1	11	**				
Sodium	102	4.4	48	280					
Anions	1000								
Carbonate	< 10	0	0	0					
Bicarbonate	280	4.6	47	760	**				
Sulfate	184	3.8	39	500	**				
Chloride	45	1.3	13	120					
Nitrate	< 0.4	0	0	0					
Nitrate Nitrogen	< 0.1	100	10	0					
Fluoride	0.3	0.016	0	8.0			-		
Minor Elements					-				
Boron	0.30			0.82					
Copper	< 0.01			0					
Ir on	0.40			1.1					
Manganese	0.020		112	0.054					
Zinc	0.040			0.11					
TDS by Summation	694			1900					
Other									
pH	7.4			units					
E. C.	0.919			dS/m					
SAR	2.9								-
Crop Suitability									1
No Amendments	Good								
With Amendments	Good								
Amendments					-				
Gypsum Requirement	0.5		T	ons/AF					
Sulfuric Acid (98%)	16		oz	/1000Ga	Or 39 oz/1	000Gal of ura	a Sulfunic A	cid (15/49)	
Leaching Requirement	7			96	100				

Note: Color coded bar graphs have been used to provide you with 'AT-A-GLANCE' interpretations.

** Used in various calculations; m.g/L = Milligram's Per Liter (ppm) me q/L = Milliequivalents Per Liter

Corpora to Office (S. Labora tory Office & Laboratory 563 E. Lirdo Aue 116 C11co, CA 95926 TEL: (2050942-0182) TEL: (530) 343-5818 E (u FAX: (205)525-4172 / Ag FAX: (205)392-2063 FAX: (205)542-0423 CA ELAP Certification No. 1963 CA ELAP Certification No. 2670 CA ELAP Certification No. 2775 CA ELAP Certification No. 2810 CA ELAP CE ITELESTON No. 1573

3442 Empresa Drue, Salte D 5415 W. Goster Austre Sar Lie Obspo, CA 93401 Veals, CA 93291 TEL: (805)723-2940 TEL: (659)734-9473

February 5, 2019 Lab ID SP 1901132-001 Customer ID : 2000200

United Water Conservation Dist : 01N21W06J05S:PTP Well #3 Description

	Micro Irrigation System Plugging Hazard						
Test Description	Res	alt	Graphical Results Presentation				
Chemical			Slight	Moderate	Severe		
Manganese	0.02	mg/L					
Iron	0.4	mg/L					
TDS by Summation	694	mg/L					
No Amendments							
pH	7.4	units					
Alkalinity (As CaCO3)	230	mg/L					
Total Hardness	236	mg/L					
With Amend ments		_					
Alkalinity (AsCaCO3)	46	mg/L					
Total Hardness	46	mg/L					
pН	5.4 - 6.7	units					

Problem

Note: Color coded bar graphs have been used to provide you with 'AT-A-GLANCE' interpretations.

Water Amendments Application Notes:

The Amendments recommended on the previous pages include:

This should be applied at least once a year to the irrigated soil surface area. Gypsum can also be applied in smaller quantities in the irrigation water. Apply the smaller (bracketed) amount of gypsum when also applying the recommended amount of Sulfuric Acid and the larger amount when applying only Gypsum.

These products should be applied as needed to prevent emitter plugging in micro irrigation systems and/or as a soil amendment to adjust soil pH to improve nutrient availability and to facilitate leaching of salts. Please exercise caution when using this material as excesses may be harmful to the system and/or the plants being irrigated. The reported Acid requirement is intended to remove approximately 80 % of the alkalinity. The final pH should rarge from 5.4 to 6.7. We recommend a field pH determination to confirm that the pH you designate is being achieved. This application is based upon the use of a 98% Sulfuric Acid product. The application of Urea Sulfuric Acid is based upon the use of a product that contains 15% Urea (1.89 lbs Nitrogen), 49% Sulfuric Acid and has a specific gravity of 1.52 at 68 °F. Guidelines for the above interpretations are sourced from USDA & U.C. Cooperative Extension Service publications. Please contact us if you have any questions.

SB1: EHB

FRUIT GROWERS LABORATORY, INC.

Scott Bucy, Director of Ag. Services





Energy Savings & Project Costs

		Energy Savings		Project Cost Data				Financial Payback	
Energy Efficiency Measure	Motor HP	Annual Energy Savings (kWh/year)	Peak Demand Savings (kW)	Gross Measure Cost	Utility Incentive	Net Measure Cost	Cost Reduction (%)	Annual Energy Cost Savings	Simple Payback Period (years)
OH WELL #2A Overhaul	100	296,587	54.01	\$91,617	\$31,829	\$59,788	35%	\$38,242	1.6
PTP WELL NO. 5 Overhaul	300	134,521	2.39	\$101,723	\$11,120	\$90,603	11%	\$17,345	5.2
OH WELL #16 Overhaul	100	32,070	15.09	\$44,487	\$4,829	\$39,658	11%	\$4,135	9.6
PTP WELL NO. 2 Overhaul	250	114,419	19.82	\$82,388	\$12,127	\$70,261	15%	\$14,753	4.8
PTP WELL NO. 3 Overhaul	250	127,196	19.05	\$99,369	\$13,033	\$86,336	13%	\$16,401	5.3
OH Well 14 VFD Add-on	500	134,355	13.44	\$62,639	\$12,764	\$49,875	20%	\$17,929	2.8
OH-PTP Pump Sequencing	Various	1,715,509	205.9	\$145,701	\$72,850	\$72,851	50%	\$196,940	0.4
	Totals	2,554,657	329.7	627,924	\$158,552	469,372	25%	\$305,745	1.5

2.6M kWh/year energy savings = **26%** *reduction* in annual energy costs

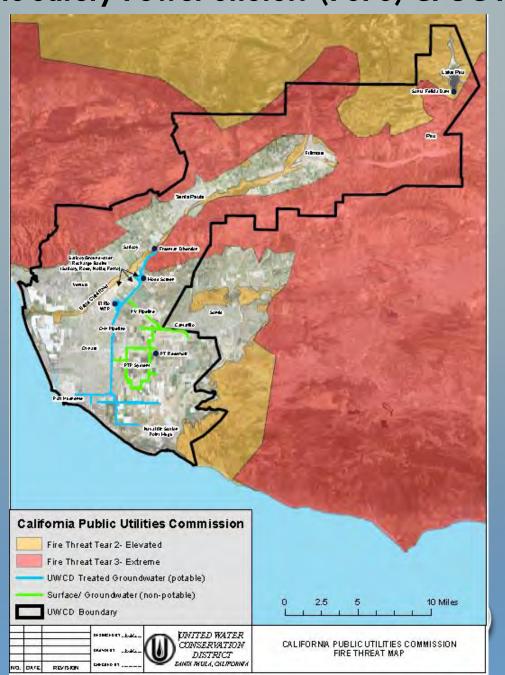


SCE PSPS EMERGENCY GENERATOR RELIABILITY

PRACTICE OF LAST RESORT: PUBLIC SAFETY POWER SHUTOFF

In alignment with its operational safety practices, SCE may proactively shut off power in high fire risk areas when extreme fire conditions present a clear and imminent danger to public safety

SCE Public Safety Power Shutoff (PSPS) CPUC Fire Threat Map







High Winds + Low Humidity + Dry Fuels



15 to 40 **MPH**

Red Flag Warnings (RFW) indicate that the National Weather Service has forecasted winds in excess of 15 mph and relative humidity less than 25%, signaling conditions especially dangerous for wildfire growth. After a RFW has been issued for a high fire risk area, SCE restricts certain types of field work and requires a patrol of affected lines before they are reenergized following a fault on the system.



40+ MPH SCE will typically deploy crews to monitor field conditions when winds are forecasted to exceed 40 mph, validating our weather data and confirming conditions that may present an imminent danger to public safety. Generally, wind speeds in excess of 40 mph, coupled with low humidity, dry fuels, and dangerous field conditions (e.g. tree branches breaking/falling near power lines), may trigger the decision to shut off power to affected areas.

NOTE: These are general guidelines and are subject to change based on conditions unique to each event

SCE Public Safety Power Shutoff (PSPS)

How often can we expect PSPS events and how long will the outages last?



- Predictions based on historical weather data and past PSPS events. Actual frequency and duration depends on a number of factors which cannot be forecasted with certainty
- Event frequency and duration predictions across all of SCE's high fire risk areas
- Scope/impact of extreme fire conditions and time to conduct safety checks of our equipment following these conditions will affect the duration of these outages.



Last resort public safety measure to mitigate wildfire risk

4-7 DAYS AHEAD

· When forecasts

indicate extreme weather, SCE will

begin predictive

assess potential

modeling to

impact



3 DAYS AHEAD



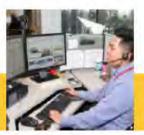
 SCE monitors fire weather watch alerts from the National Weather Service (NWS) and continues to refine predictive models

2 DAYS AHEAD



- · Extreme fire weather conditions forecasted and NWS Red Flag Warning issued · Coordinate with
- local gov't and agencies (e.g. emergency responders)
- · Initiate customer notifications on possible power shutoff

1 DAY AHEAD



- · Extreme fire weather conditions imminent; continued modeling and more accurate forecasts determine affected . Notify local areas
- Continue to coordinate and commulnicate with local government, agencies and customers of possible PSPS

POWER SHUTOFF



government,

agencies and

customers of

power shutoff

- · Extreme fire Extreme fire weather subsides weather and to safe levels and dangerous conditions conditions validated by validated by field field resources resources
 - Inspections and patrols of equipment begin, then power is restored to affected communities

POWER

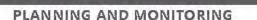
RESTORATION

 Agencies and customers notified of power restoration

OUTAGE

Energy for What's Ahead®





Note: Actual onset of weather conditions and other circumstances beyond our control may impact coordination and notification efforts





PSPS Preliminary Estimates for diesel generator installation

Site		Fund		
PTP 1	\$132,000.00	470		
PTP 2	\$132,000.00	470		
PTP 3	\$132,000.00	470	PTP System	\$903,000
PTP 4	\$158,000.00	470		
PTP 5	\$154,000.00	470		
PTP Reservoir	\$131,000.00	470		
Design/permits	\$64,000.00	470		
Hazard Mit	igation Grant Na	atice of Inte	rest (NOI) Submitted	

mazara mingation Grant Notice of Interest (NOI) Submitted

Subject to APCD Ventura County approval (No emissions controls)

\$62,000.00 Floc Building 420 SFD Shop \$73,000.00 50 \$45,000.00 SP Tower 50 Lake Piru WTP \$80,000.00 20 OH Wellfield \$899,000.00 450

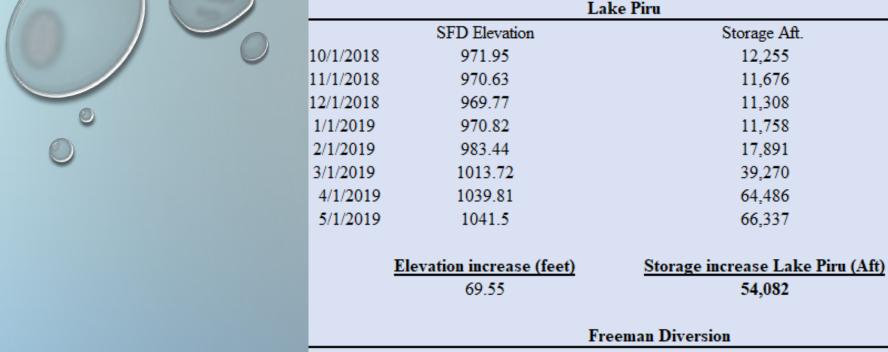




Surface Water







	Aft diverted
Oct-18	0
Nov-18	25
Dec-18	630
Jan-19	3,325
Feb-19	6,845
Mar-19	5,861
Apr-19	11

% full

14.95%

14.24%

13.79%

14.34%

21.82%

47.90%

78.65%

80.91%

22

Total Aft Diversions at Freeman

16,697 AFT

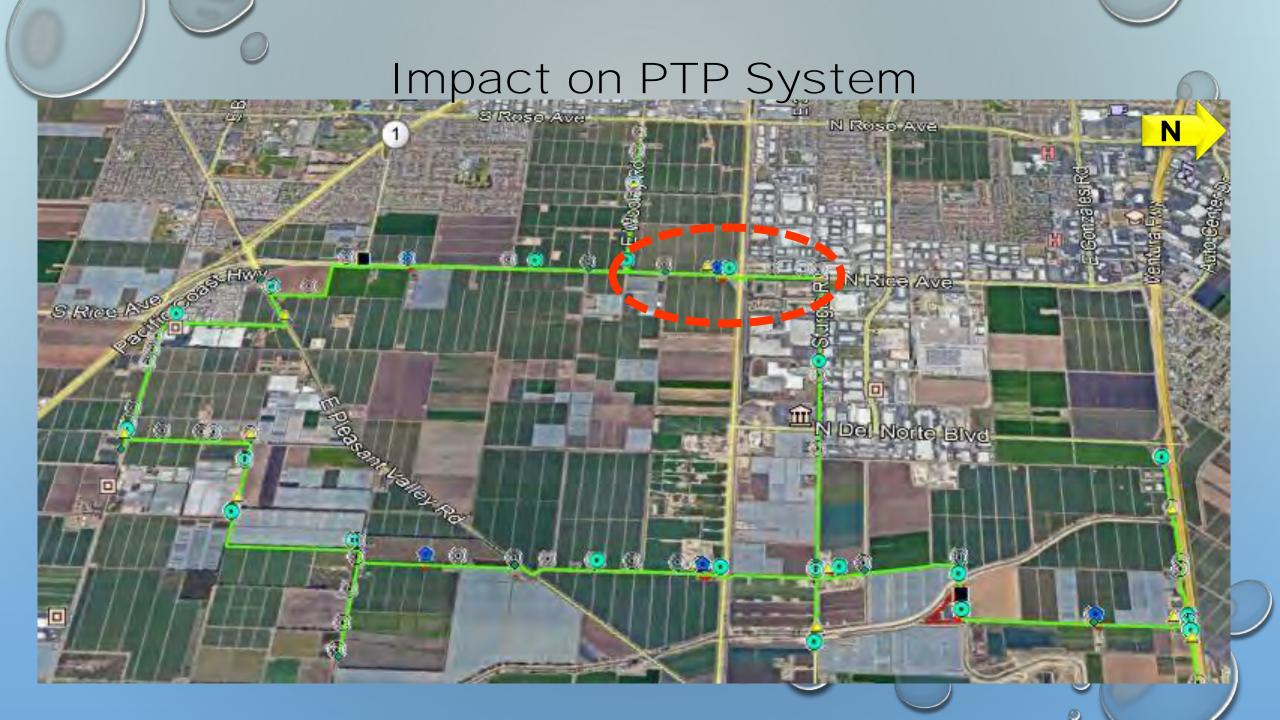
Total Storage Aft - water year 18-19 by UWCD through 5/1/19

Rice Avenue Grade Separation Project and its Impact on PTP System

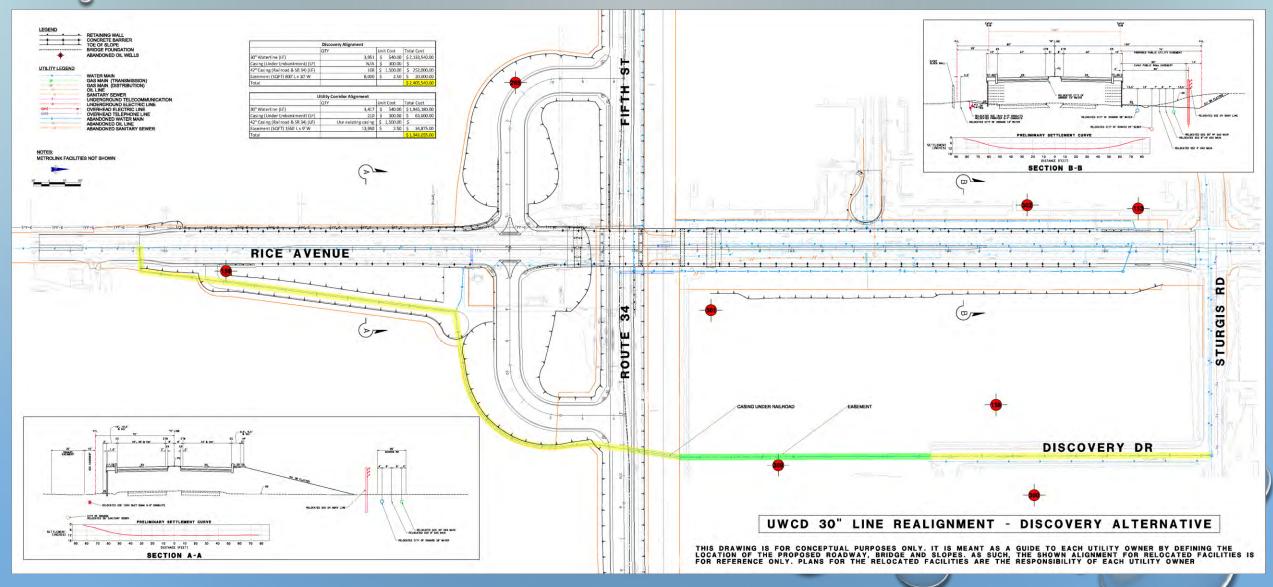
Maryam Bral Chief Engineer

Rice Avenue Grade Separation Project

- City of Oxnard is designing a grade separation at Rice Avenue at the 5th Street (SR 34) and the Union Pacific Railroad tracks.
- Project addresses a public safety issue as a result of accidents and fatalities at the rail crossing in recent years.
- United is in support of the Project.



PTP PIPE RELOCATION DISCOVER RD/ STURGIS RD





Rice Avenue Grade Separation Project

- United has been in discussions with the City, its consultants, the County and the local legislators since 2015.
- United hired Kennedy Jenks in 2018 to evaluate relocation alternatives and relocation costs.
- PTP system is a public utility and relocation costs should be included in the Project with no financial burden on the PTP Users.



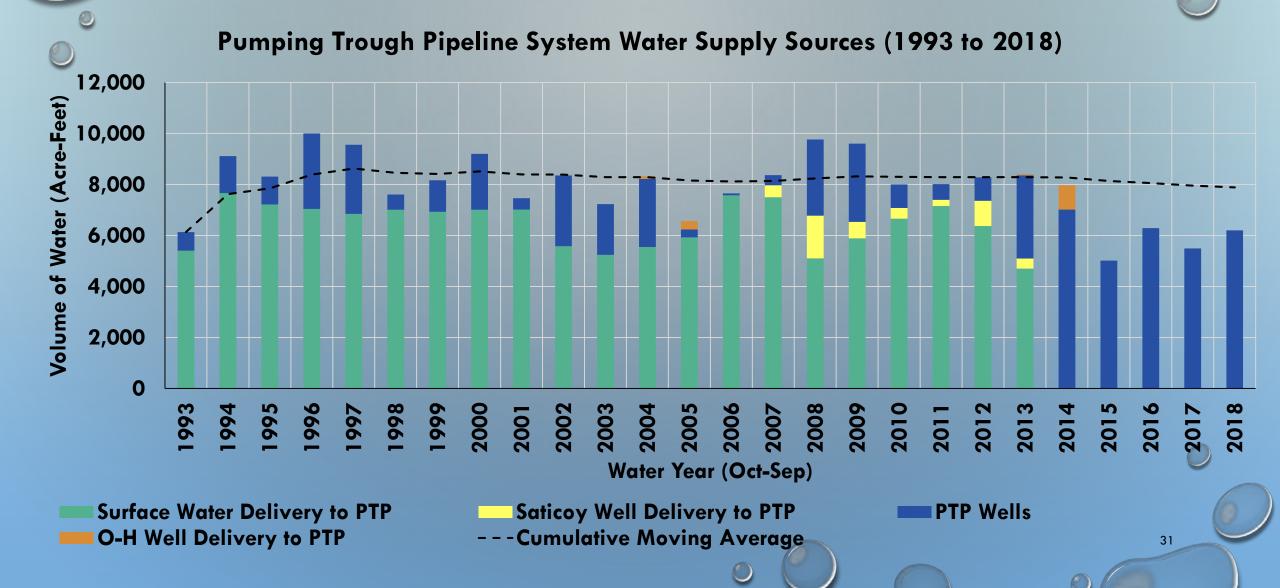
RECYCLED WATER

PLANS FOR CONVERSION

Robert Richardson Associate Engineer UWCD

3.1 - Plans for Conversion

Why Pursue Recycled Water?



Why Pursue Recycled Water?

Table 1 — Water Quality Data of Select Parameters for Various PTP System Water Sources

Parameter	Unit	Surface Water ⁽¹⁾ (1991-2016)	Saticoy Wells (2003-2013)	PTP Wells (2010-2016)	O-H Wells ⁽²⁾ (2003-2016)	Proposed AWPF Permeate (Q4 2016)
Total Dissolved Solids (TDS)	mg/L	699 to 1,480 1,134 (avg)	713 to 2,040 1,082 (avg)	645 to 1,020 879 (avg)	928 to 1,150 1,031 (avg)	65
Conductivity	μS/cm	864 to 1,850 1,419 (avg)	921 to 2,490 1,364 (avg)	930 to 1,330 1,164 (avg)	1,190 to 1,450 1,307 (avg)	130
рН		7.6 to 8.8 8.2 (avg)	7.4 to 7.8 7.6 (avg)	4.7 to 8.0 7.5 (avg)	6.2 to 8.3 7.7 (avg)	7.7
Calcium	mg/L	93 to 190 139 (avg)	91 to 258 142 (avg)	43 to 125 93 (avg)	117 to 161 135 (avg)	6.2
Magnesium	mg/L	29 to 86 53 (avg)	33 to 92 51 (avg)	14 to 42 31 (avg)	35 to 41 38 (avg)	0.1
Potassium	mg/L	2 to 10 5.2 (avg)	3 to 8 4.6 (avg)	5 to 9 6.3 (avg)	3 to 6 4.3 (avg)	1.1
Bicarbonate	mg/L	123 to 350 243 (avg)	200 to 430 260 (avg)	160 to 310 255 (avg)	160 to 280 252 (avg)	40
Sulfate	mg/L	264 to 757 493 (avg)	270 to 920 462 (avg)	163 to 450 337 (avg)	301 to 510 444 (avg)	2.7
Chloride	mg/L	22 to 102 61 (avg)	27 to 120 60 (avg)	36 to 69 45 (avg)	40 to 56 47 (avg)	19
Nitrate as NO3	mg/L	< 0.4 to 13 5.3 (avg)	< 0.4 to 12 5.9 (avg)	< 0.4	< 0.4 to 12 2.3 (avg)	1.9
Boron	mg/L	0.3 to 1.0 0.7 (avg)	0.5 to 0.9 0.6 (avg)	0.2 to 0.6 0.4 (avg)	0.0006 to 0.7 0.5 (avg)	0.7

Recycled Water Permitting Timeline

2016

- PTP User's Meetings (Apr 18 & Dec 8)
- Hazard Assessments
- Customer Surveys
- On-Site Surveys

2017

- On-Site Surveys
- Draft Title 22 Engineering Report submitted to SWRCB DDW (Mar 2017)
- Letters to Customers Notice of Improvements Needed (Apr 7)
- PTP/PVP User's Meeting (Apr 26)
- Draft Title 22 Engineering Report submitted to LA RWQCB (Jun 2017)
- Conditional Approval from LA RWQCB (Oct 2017)

2018

- Letters to Customers Notice of Corrections Required (Apr 6)
- PTP User's Meeting (May 1)
- Plan for Corrections (May 21)
- Make Corrections (Oct 5)
- Cross-Connection Testing

2019

- PTP User's Meeting (May 14)
- Cross-Connection Testing and Compliance
- On-Site Surveys







Los Angeles Regional Water Quality Control Board

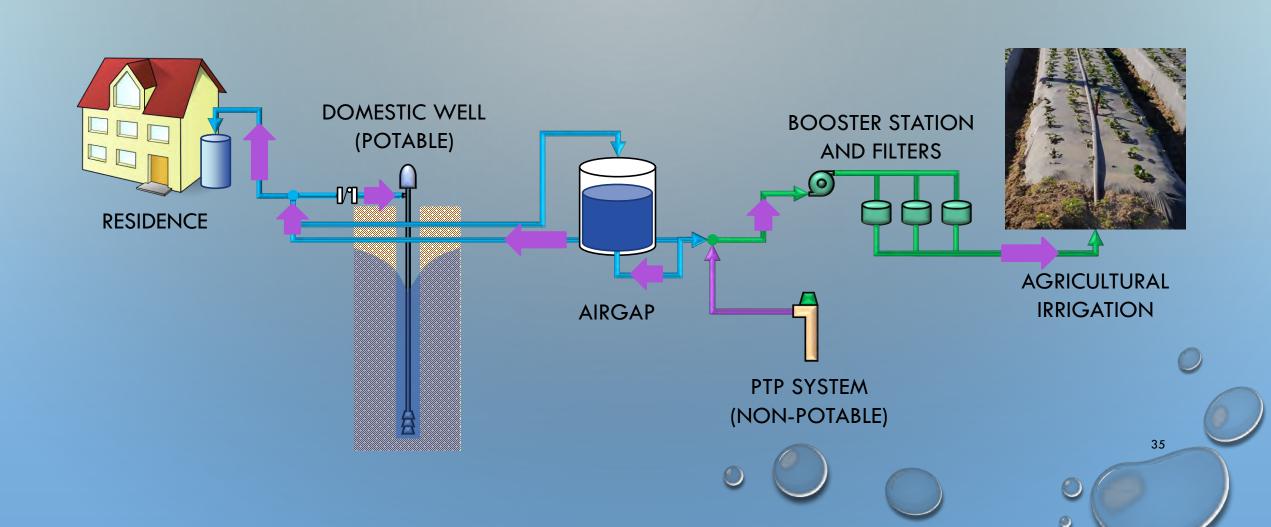
4. Conditional Approval

As noted above, an amendment to the Oxnard WRR/WDR Order No. R4-2011-0079-A02/A01 is not needed to supply Oxnard AWPF recycled water to the PTP. The Regional Water Board approves the recycled water distribution and use in the PTP system as outlined in the June 5, 2017 engineering report with the following conditions:

- A. The extension and the PTP, as well as the property owner/lessees <u>cross connections</u>, have been approved by the DDW and a copy of the approval letter has been submitted to the Regional Water Board.
- B. The PTP distribution system is in compliance with WRR/WDR Order No. R4-2011-0079-A02/A01.
- C. The blended water from the CWD is not distributed via the PTP until the amendment to include the Camarillo WRP's effluent and to expand the recycled water use area has been adopted for WRR/WDR Order No. R4-2015-0030 and the PTP is in compliance with the amended order.



Cross-Connected Dual Plumbed Use Area



PTP System - Properties Served - Statistics

Table 1 - Characteristics of the PVP and PTP System								
Description	PTP System	PVP ("C" Customers)	Total					
No. of Properties	149	7	156					
Total Land Served (acres)	5,151	486	5,637					
No. of Private Domestic Wells	39	2	41					
No. of Private Irrigation Wells	38	5	43					
Sites with Public Access	10	1	11					
Dual Plumbed Sites	60	2	62					
Sites with Residences	41 ⁽¹⁾	1	42					
Sites with Retail Space	5	0	5					
Sites with Workshops	24	0	24					
Sites with Offices	3	0	3					

⁽¹⁾ One residence was recently demolished

PTP System User's Plans to Remove Cross-Connections

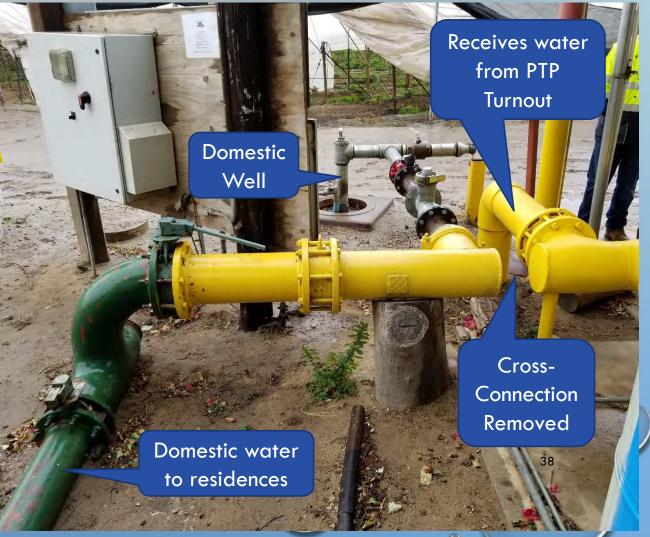
Table 3 - Customer Responses	
Response	No. of Responses
Option 1: Install new domestic well	2
Option 2: Install new air gap	7
Option 3: Abandon domestic system	1
Option 4: Other	1
Subtotal	11
No response received	6
Total	1 <i>7</i>





Recycled Water Program Update PTP Turnout – Removed Cross-Connection



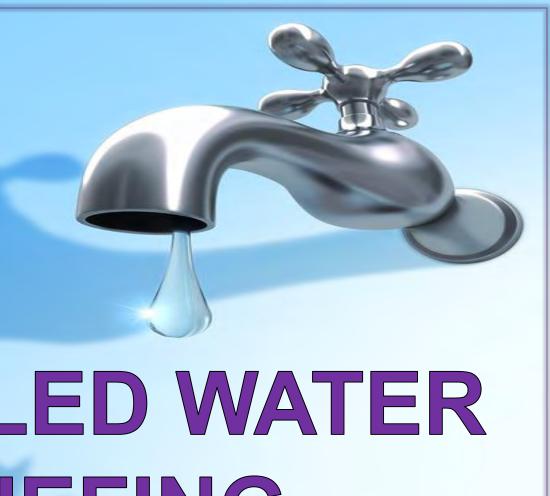




RECYCLED WATER

Cross Connection Compliance

Jeff Densmore, District Engineer S.W.R.C.B. DDW



RECYCLED WATER BRIEFING

May 2019

Jeff Densmore, P.E. DDW Santa Barbara District

USES OF RECYCLED WATER

- DISINFECTED TERTIARY RECYCLED WATER:
 - FLUSHING TOILETS AND URINALS
 - FOOD CROPS
 - PARKS, PLAYGROUNDS, SCHOOLS
 - RESIDENTIAL LANDSCAPE
 - UNRESTRICTED GOLF COURSES

USE AREA CONTROLS

- SITE CONTAINMENT
- SETBACK
- SIGNAGE
- WORKER/PUBLIC PROTECTION
- CROSS CONNECTIONS
- USE SITE PLAN
- USE SUPERVISOR
- USER AGREEMENT







- SECTION 60301.400 A FAUCET WHICH A COMMON GARDEN HOSE CAN BE READILY ATTACHED.
- SECTION 60310(G) NO HOSE BIBS IN RW SYSTEM WITH PUBLIC ACCESS.







• H&S CODE, SECTION 116815









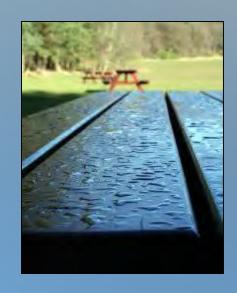






RW OVERSPRAY

- SECTION 60310(E)
- ON PICNIC TABLES
- ON DRINKING WATER FOUNTAINS
- PONDING







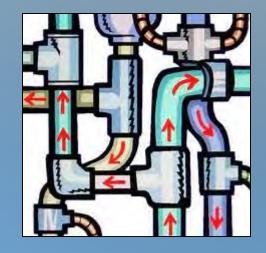
USE AREA AGREEMENT

- TERMS OF SERVICE
- PIPING PLANS VERIFIED WITH SITE SURVEY
- BACKFLOW PROTECTION
- USE AREA SUPERVISOR DESIGNATION AND TRAINING



USE SUPERVISORS

- TITLE 17, SECTION 7586
- RESPONSIBLE FOR AVOIDANCE OF CROSS CONNECTIONS DURING INSTALLATION, OPERATION, AND MAINTENANCE.
- HAVE THEY BEEN TRAINED/CERTIFIED?





BACKFLOW PROTECTION REQUIREMENTS



FIVE MEANS OF PREVENTING BACKFLOW

- AIR GAP SEPARATION
- REDUCED PRESSURE PRINCIPLE ASSEMBLY
- DOUBLE CHECK VALVE ASSEMBLY
- PRESSURE VACUUM BREAKER/
 SPILL-RESISTANT VACUUM BREAKER
- ATMOSPHERIC VACUUM BREAKER



AN APPROVED AIR GAP SHALL BE AT LEAST DOUBLE THE DIAMETER OF THE SUPPLY PIPE MEASURED VERTICALLY ABOVE THE OVERFLOW RIM OF THE RECEIVING VESSEL BUT NEVER LESS THAN 1".

AN AIR GAP IS THE ONLY PROTECTION ALLOWED BETWEEN A RECYCLED WATER SYSTEM AND A DRINKING WATER SYSTEM.





IMPROPER AIR GAP





- RECYCLED WATER
- AGRICULTURAL WATER
- RAW WATER



- UPON INSTALLATION
- AT LEAST ON AN ANNUAL BASIS OR MORE FREQUENTLY AS REQUIRED BY WATER PURVEYOR
- AFTER REPAIR

EXAMPLES OF CROSS-CONNECTIONS



BYPASSING THE ASSEMBLY

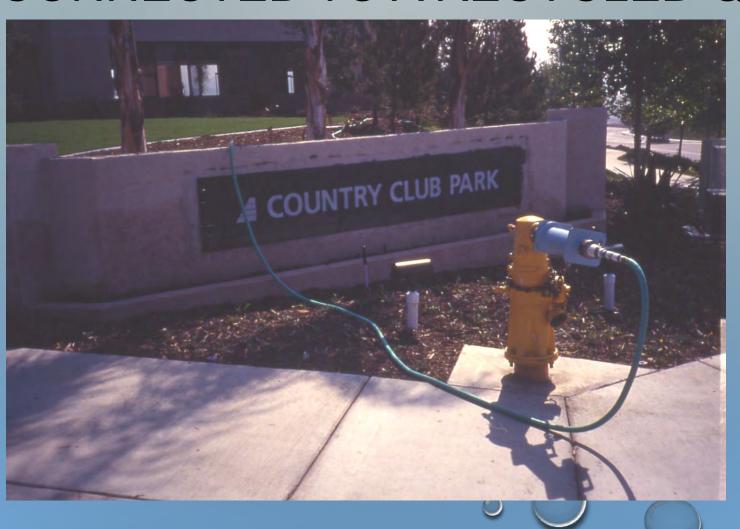




BYPASS AT METER



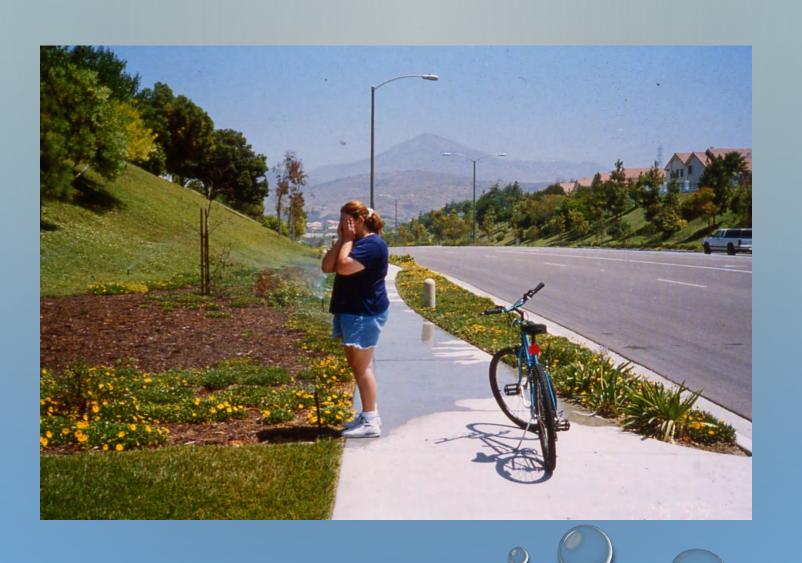
CONNECTED TO A RECYCLED QC



GIRL WITH BIKE WASHING HANDS IN SPRINKLERS



GIRL WASHING FACE IN IRRIGATION WATER



SHUTDOWN TESTING REQUIREMENTS

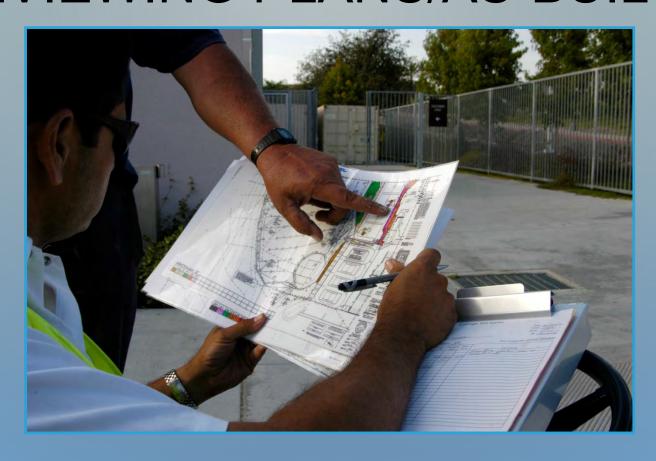
Needed to demonstrate that the recycled water system is not cross connected to the potable water system.







REVIEWING PLANS/AS-BUILTS



SHUTDOWN TEST INCLUDES:

- . Operating all irrigation stations
- . Check for overspray/runoff/ponding
- . Signage, appurtenance marking
- . Irrigation controller charts
- . As built plans
- . Use site supervisor appointed
- .Compliance with storm water permit requirements
- . Separation between potable and recycled water



CHECKING FOR CROSS-CONNECTIONS

Be aware of the site's recycled and potable water system pressures.

When recycled water system is turned off, periodically check to ensure there is no flow.

Watch for new construction near the use site (construction trailers, etc.) that may need a temporary water source.

THE SITE SUPERVISOR

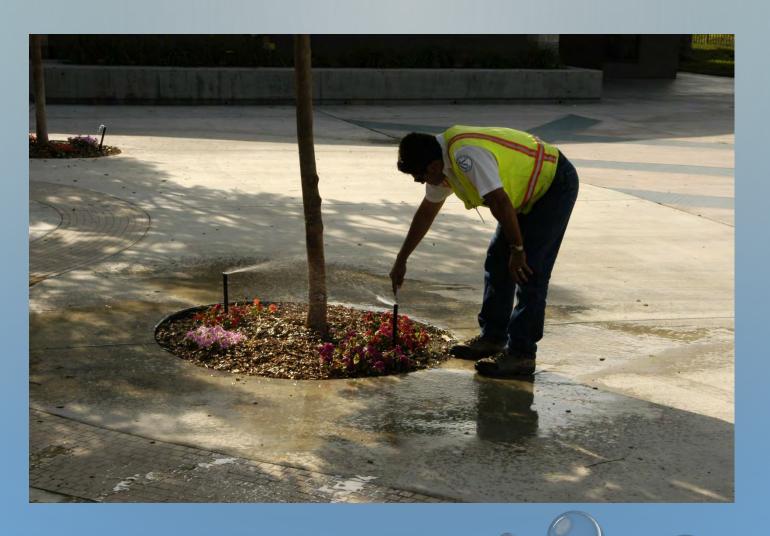
IS LITERALLY THE EYES AND EARS OF THE RECYCLED WATER PURVEYOR.

ROUTINE AND ANNUAL SITE INSPECTIONS

ROUTINE INSPECTION IS PERFORMED BY THE SITE SUPERVISOR.

ANNUAL INSPECTION IS PERFORMED BY THE WATER PURVEYOR AND SITE SUPERVISOR.

DUTIES OF THE SITE SUPERVISOR



Inspecting for Overspray and Runoff



INSPECTING FOR BROKEN HEADS





CHECKING PROPER SIGNAGE







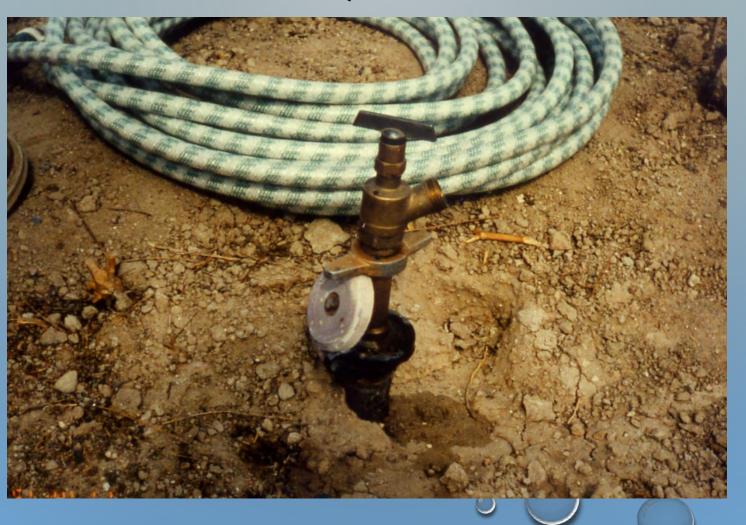








QUICK COUPLER QUILL WITH HOSE BIBB



SITE SUPERVISOR WITH RECYCLED AND POTABLE HOSES



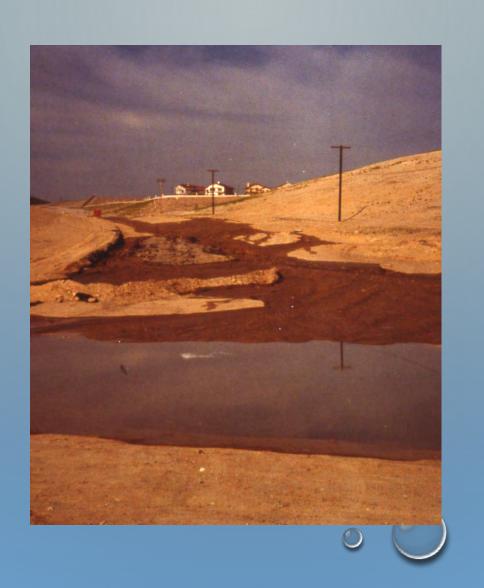








PONDING: KEPT ON USE SITE





RUNOFF



CROSS CONNECTION CONTROL PROGRAMS: ENSURING THE SAFE USE OF RECYCLED WATER

Recycled water is not potable water and cannot be treated like potable water. Recycled water has a definite and necessary place in the California water equation, but that equation must recognize the public health and safety implications of the use of recycled water.

The recycled water producer, the user, and the regulatory authority must all work together to ensure the safe use of this beneficial resource.





RECYCLED WATER

PROPOSED RECYCLED WATER CONVEYANCE

Robert Richardson Associate Engineer UWCD

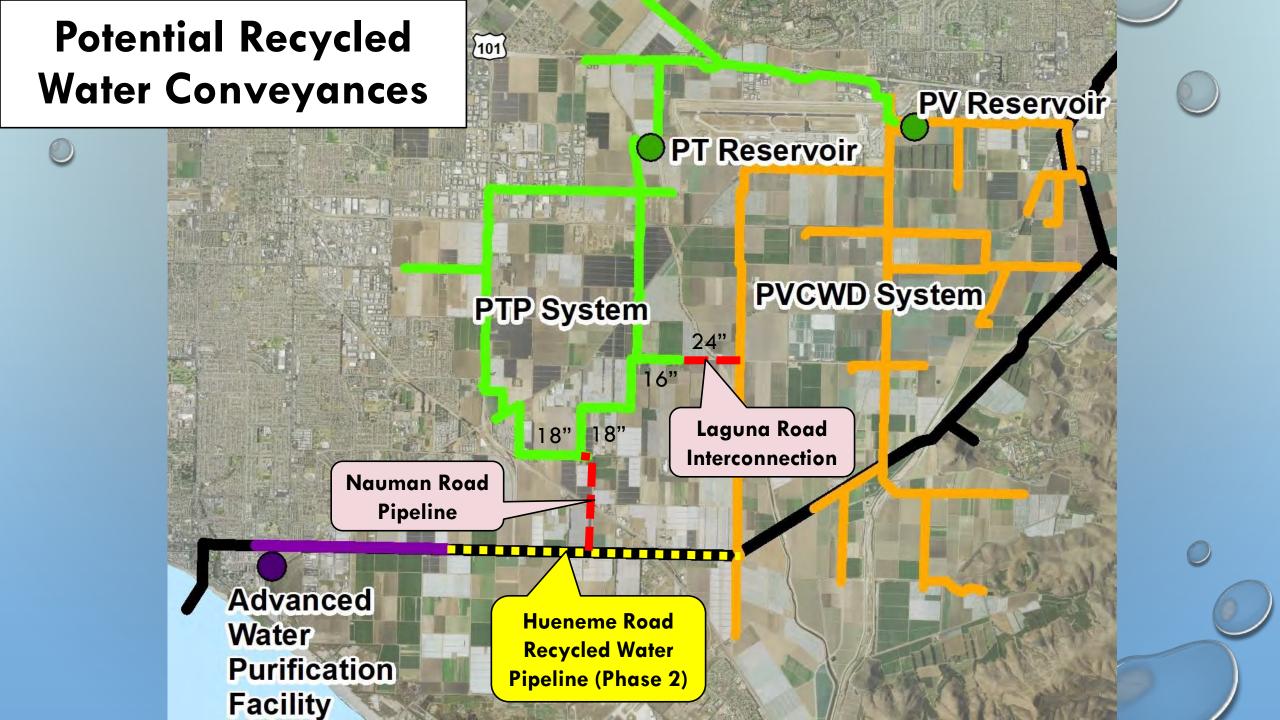
3.3 – Proposed Recycled Water Conveyance

City of Oxnard Status

- Salinity Management Pipeline (SMP) Permit
 - Recycled Water deliveries extended to December 31, 2020
- Hueneme Road Recycled Water Pipeline (Phase 2)
 - Feb 28, 2019 Solicitation for construction bids
 - May 21, 2019 Construction bids due
 - Aug Sep, 2019? Commence construction
- Water Business Plan
 - GOAL: Expand AWPF as a water supply source
 - April 9, 2019 City Council awarded contract to Gannett Fleming
 - April February, 2020? Public Outreach
 - June December, 2019? Water Rate Study
 - Jan, 2020? Presentation to City Council







TURNOUT METERING SYSTEM IMPROVEMENT PROJECT

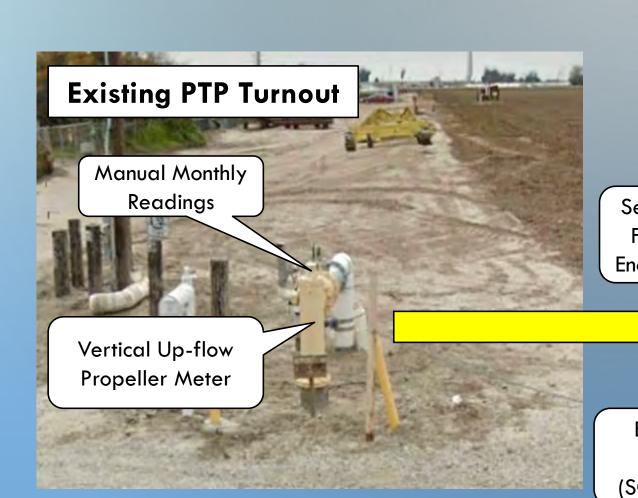
PTP METERING PROJECT PROGRESS

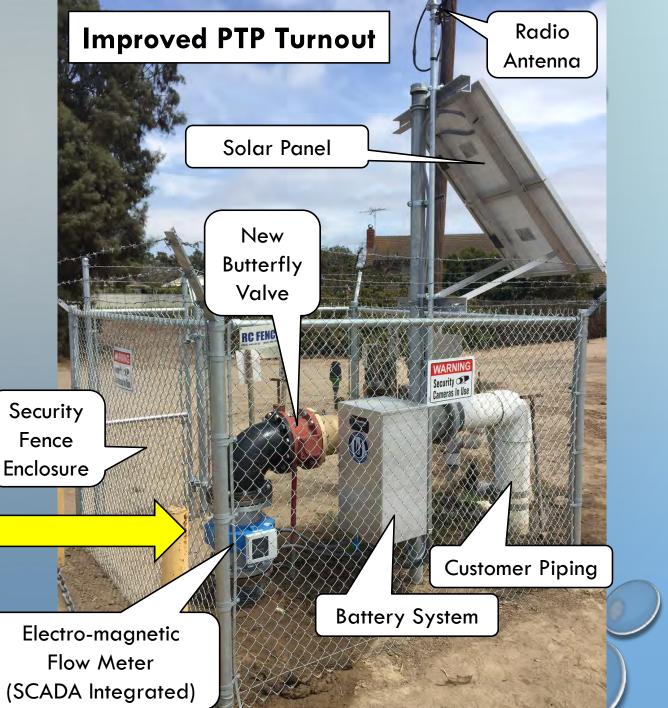
Robert Richardson Associate Engineer UWCD



4. PTP Turnout Metering System Improvement Project

What is the PTP Metering Improvement Project?

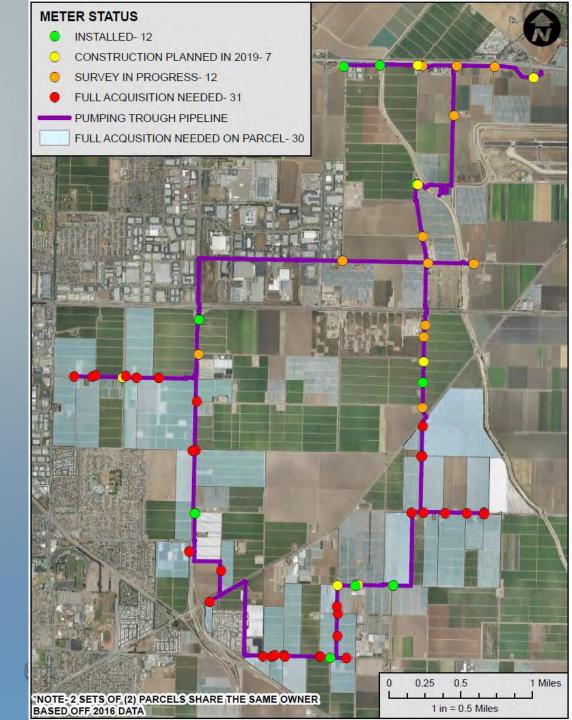




PTP Metering Improvement Project

Status

- Installed 12
 - Upcoming Construction Planned 7
 - Complete Easement Maps & Legal Descriptions 12
 - Full Right-of-Way Acquisition Needed 31
- Budget: ~\$1,608,593 (proposed FY 19-20)
 - District contribution: ~ \$287,622/ \$973,493
 - State (DWR) contribution: \$140,628/\$635,100
 - Encumbered (meters & equipment): \$165,970



PTP Turnout No. 153



89

PTP Turnout Nos. 104 & 116



PTP Turnout No. 130 & 131







PROPOSED BUDGET STATUS

FISCAL YEAR 2019-20 PRELIMINARY BUDGET

> Joseph Jereb Chief Financial Officer UWCD



2019-2020 BUDGET PREVIEW

PUMPING TROUGH PIPELINE FUND

MAY 14, 2019



AGENDA

- FY18-19 CLOSE--CURRENT PROJECTIONS
- OPERATIONAL OUTLOOK FOR COMING YEAR
- FY19-20 PROPOSED BUDGET
 - EXPENDITURES
 - CAPITAL IMPROVEMENT PROJECTS
 - REVENUES
 - RATE HISTORY
 - 2019-2020 RATES



FY18-19 PROJECTED FINISH

TIMING OF SPEND, GRANTS AND FINANCING OF CIP DRIVES VARIANCES FROM BUDGET



Pumping Trough Pipeline Fund								
		FY18-19						
	FY17-18	Adjusted	FY18-19	var to				
(\$ thousands)	Actual	Budget	Projection	Plan	var to PY			
Water Delivery/Fixed Costs	2,125	1,855	1,845	-1%	-15%			
Fox Canyon GMA	77	75	75	0%	-2%			
Grants	116	677	125	-82%	7%			
Other	55	1,056	604	-43%	91%			
Total Revenue	2,373	3,664	2,648)-28%	10%			
Personnel Expense	308	326	326	0%	6%			
Operating Expense	668	888	808	-9%	21%			
Allocated Overhead	313	446	446	0%	42%			
Debt Service	72	92	92	0%	28%			
Other	1,138	2,304	1,627	-29%	43%			
Total Expenditure	2,499	4,056	3,299	-19%	32%			

	Actual	Budget	Projected	
	FY 2017-18	FY 2017-18 FY 2018-19 F		
Cash Reserves/Working Capital:				
Beginning Balance July 1	46	379	379	
Net Surplus / (Shortfall)	(126)	(392)	(651)	
Add Back Non-cash Depreciation	459	456	456	
Ending Balance June 30	379	443	184	
Reserve Requirement			\$250k - \$300k	

- DELIVERY VOLUMES TRENDING TO PLAN
- OTHER REVENUE BELOW PLAN ON LOWER BORROWING FOR CIP
- OPEX IN LINE WITH FY18-19 BUDGET
- CIP BELOW PLAN DUE TO TIMING OF METERING PROJECT
- CASH BELOW RESERVE REQUIREMENT DUE TO DELAY IN METERING FINANCING







EXPENDITURE/CASH FLOW

	Antonia	Duningtod	Proposed
(\$ thousands)	Actual FY 2017-18	Projected FY 2018-19	Budget FY 2019-20
Expenditures:	11 2017 10	17 2010 15	112010 20
Regular Salaries	179	182	243
Overtime Salaries	12	15	9
Employee Benefits	117	129	165
Personnel Costs	308	326	417
Contractual Services	5	51	11
Office Expenses	5	11	8
Travel, Meetings, Traning	0	4	4
Fuel-Gasoline-Diesel	7	13	20
Insurance	18	20	20
Fox Canyon GMA	79	75	75
Utilities	403	384	455
Telephone	1	1	2
Safety, Supplies, Clothing	6	10	12
Water Treatment Chemicals	43_	30_	45
Maintenance	83	186	222
Small Tools & Equipment	3	4	4
Permits & Licenses	6	7	4
Water Quality Services	2	3	10
Miscellaneous	4	9	36
Operating Expenses	668	808	927
Replacement/Depreciation	459	456	460
Allocated Overhead	313	446	430
Debt Service	72	92	326
Capital Outlay	57	329	106
Transfers Out	622	842	1,896
Total Expenditures	2,499	3,299	4,561

			Proposed
	Actual	Projected	Budget
	FY 2017-18	FY 2018-19	FY 2019-20
Cash Reserves/Working Capital:			
Beginning Balance July 1	46	379	184
Net Surplus / (Shortfall)	(126)	(651)	(362)
Add Back Non-cash Depreciation	459	456	460
Ending Balance June 30	379	184	281
Reserve Requirement		\$	250k - \$300k

PERSONNEL

ADDITION OF I&E SUPERVISOR AND REVISED
 ALLOCATION OF OPS AND ENGINEERING HEADS

OPEX

- UTILITIES—SCE EXPANSION OF PEAK HOURS
- MAINTENANCE—CARRY OVER FROM PY

DEBT SERVICE

EXTERNAL FINANCING FOR CIP





CIP OUTLOOK

INCLUDES PERSONNEL ALLOCATED TO PROJECTS

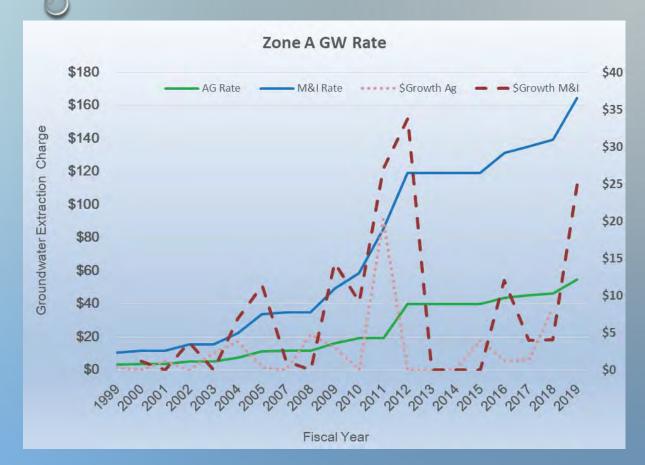
Project #	Description	PTP	TOTAL	
8022	PTP Turnout Metering System	750	750	
8038	PTP System Emergency Generator	903	903	
8040	Santa Paula Microwave Communications Tower	32	267	
8024	New Headquarters	182	1,764	
8028	Replace El Rio Trailer	5	35	
8041	Asset Management/CMMS System	3	30	
	TOTAL AMOUNT PER YEAR	1,896	12,784	

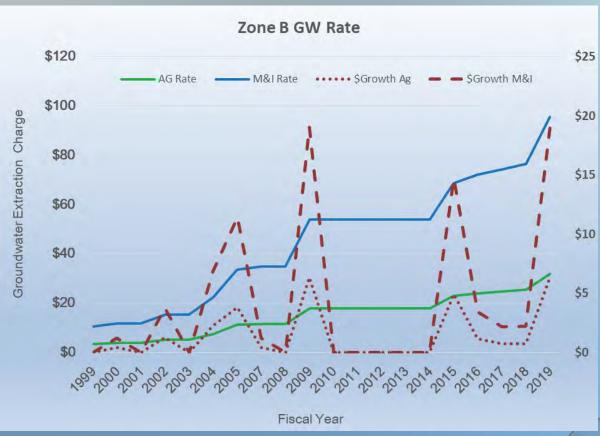
• DEBT FINANCE \$1.8M

- BACKUP GENERATORS--\$0.9M
- METERING SYSTEM--\$0.7M
- HQ RENOVATION--\$0.2M

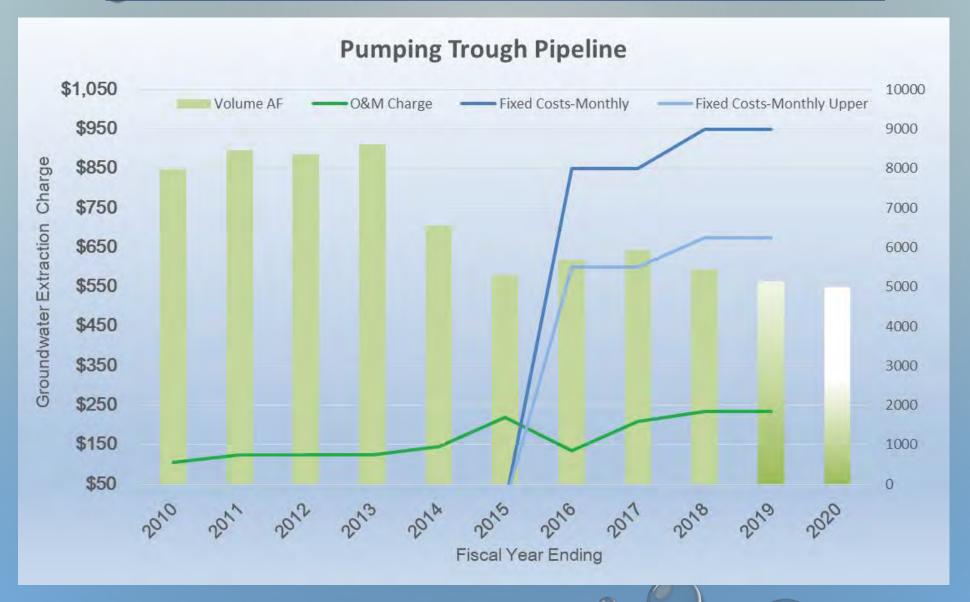


GROUNDWATER RATE HISTORY





PIPELINE RATE AND VOLUME HISTORY





PTP PIPELINE REVENUE



Pumping Trough Pipeline Fund						
(\$ thousands)	FY17-18 Actual	FY18-19 Projection	FY19-20 Proposed	var to PY		
Water Delivery/Fixed Costs	2,125	1,845	1,928	5%		
Fox Canyon GMA	77	75	75	0%		
Grants	116	125	394	215%		
Other	55	604	1,803	199%		
Total Revenue	2,373	2,648	4,199	59%		

- OPERATING REVENUE UP 5%
- DEBT FINANCE \$1.8M
 - BACKUP GENERATORS--\$0.9M
 - METERING SYSTEM--\$0.7M
 - HQ RENOVATION--\$0.2M



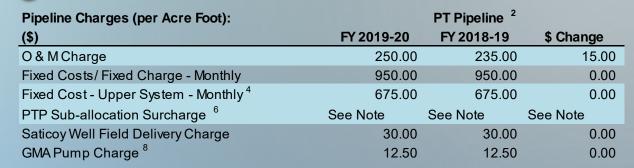






CURRENT RATE PROPOSAL





² - Pipeline users pay Zone A and Zone B extraction charges and water purchase surcharge listed above as well as the pipeline-specific charges

Charges (per Acre Foot):	Conservation	n Extractio	n Charge	- Zon	e A Fr	eeman Extr	action Cha	rge - Zone
<u>(\$)</u>	Proposed FY 2019-20	FY 2018-19	\$ Change	FY	2015-16	Proposed FY 2019-20F	Y 2018-19	\$ Change
Agriculture Rate	54.79	46.43	8.36		22.90	33.93	25.51	8.42
Municipal & Industrial Rate	164.37	139.30	25.07		68.70	101.80	76.54	25.26

- VARIABLE RATE INCREASE
 OF \$15
 - FIXED RATES REMAIN
 UNCHANGED
 - IN-LIEU GROUNDWATER

 RATES INCREASE BY \$8/25

 FOR AG/M&I

⁴ - Rate applies only to PTP turnouts above elevation 58.5 instead of the PTP Fixed Cost - Monthly Rate.

⁶ - The PTP Surcharge = equivalent to FCGMA groundwater extraction surcharge rates, on a pro rata basis, in an amount to reimburse the District for 100% of potential FCGMA surcharge.

⁸ - This rate is set by the Fox Canyon GMA and subject to change. Also applies to all Saticoy Well Field deliveries.



QUESTIONS ?