

Calaveras County Water District

Five-Year Capital Improvement Program

FY 2016-17 thru FY 2020-21

March 9, 2016

Water priorities

- Pursuing Grant Funding Consistent with District's Goals
- Hazard Mitigation Project (Drought, Fire, Flood, etc.)
- Renovating/Replacing Water Mains, Pumps, Tanks & Other Failing Infrastructure
- Providing Treatment System Reliability and Redundancy
- Addressing Water Resources Issues / Water Supply Shortfalls
- Painting & Repairing Steel Corrosion / Storage Tank Management
- Master Planning for Growth / Future Expansion Projects

Wastewater priorities

- Pursuing Grant Funding Consistent with District's Goals
- Regulatory Compliance / Permit Updates
- Minimizing Potential for Sewer Spills & Overflows
- Improving Worker Safety Conditions/OSHA Compliance
- Addressing Operational Issues / Assisting Operational Staff
- Correcting Treatment Process Deficiencies
- Master Planning for Growth / Future Expansion Projects

Additional projects

- Water:
 - Ebbetts Pass Techite Water Line Replacement
 - Jenny Lind Tank A-B Transmission Line
- Wastewater:
 - Vallecito Infiltration and Inflow / Equalization Improvements
 - Vallecito Road Improvements

Water – project schedule

PROJECT PHASES		FISCAL YEAR																					
		FY 16-17				FY 17-18				FY 18-19				FY 19-20				FY 20-21					
		2016		2017		2018		2019		2020													
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Big Trees	Redwood Tanks (Cal-OES / FEMA)																						
Ebbetts Pass	Reach 3A Pipeline (USDA)																						
Jenny Lind	Water Master Plan																						
Copper Cove	Water Master Plan																						
Jenny Lind	Pretreatment (Cal-OES / FEMA)																						
Jenny Lind	Clearwell #2 / Repair & Paint																						
Forest Meadows	Larkspur Tank / Repair & Paint																						
Wallace	Ground & Elevated Tanks / Repair & Paint																						
Various	Pipeline Replacements / Relocations																						
Ebbetts Pass	Techite Water Line Replacement																						
Ebbetts Pass	Sawmill & Hunters Tanks / Repair & Paint																						
Ebbetts Pass	Reach 1 Pipeline																						
Copper Cove	Clearwell & Tank B / Repair & Paint																						
West Point	Wilson Dam																						
Sheep Ranch	White Pines / Blagen Mill Pond																						
Sheep Ranch	New Water Plant & Clearwell																						
Jenny Lind	Tank A-B Transmission Pipeline																						
Jenny Lind	Tanks (4) / Repair & Paint																						
West Point	Backup Water Filter																						

Wastewater – project schedule

PROJECT PHASES		FISCAL YEAR																							
		FY 16-17				FY 17-18				FY 18-19				FY 19-20				FY 20-21							
		2016				2017				2018				2019				2020							
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2		
	Planning, Applications, Environmental																								
	Design, Engineering, Permits																								
	Construction																								
Copper Cove	Reclaim Permit & Pump																								
La Contenta	Sewer Master Plan																								
Copper Cove	Sewer Master Plan																								
Wallace	Treatment Plant Renovations																								
Various	Lift Station Renovations																								
Vallecito	Title 22 / TSTAN Project																								
Vallecito	Vallecito I & I / Equalization Improvements																								
Vallecito	Vallecito Road Improvements																								
Various	Sludge Drying / Containment																								
Poker Flat	Lift Station 8, 12 & 13 Bypass																								
West Point	Wilseyville Consolidation Grant																								
La Contenta	Secondary Clarifier																								
Arnold Sewer	Secondary Clarifier																								

CIP – funding sources

- Expansion Funds
- Reserves *
- Capital R&R – Water
- Capital R&R - Wastewater
- Grants
- Other Funding Sources/Assessment Districts

Water projects

<i>Water Projects Project Description</i>	Total Project Cost	Cash Flow					
		Thru 06/16	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21
Redwood Tank Replacement	1,475,000	457,666	1,017,334	-	-	-	-
Ebbetts Pass Reach 3A Pipeline Replacement	5,300,000	1,225,157	4,074,843	-	-	-	-
Water Master Plan	100,000	-	80,000	20,000	-	-	-
Water Master Plan	100,000	-	80,000	20,000	-	-	-
Jenny Lind WTP - Pretreatment Facility	3,800,000	350,000	2,768,400	681,600	-	-	-
Clearwell #2 / Repair & Paint	75,000	11,250	48,750	15,000	-	-	-
Larkspur Tank / Repair & Paint	150,000	22,500	97,500	30,000	-	-	-
Wallace Tanks / Repair & Paint	250,000	37,500	162,500	50,000	-	-	-
Pipeline Replacements/Relocations	400,000	-	100,000	100,000	100,000	100,000	-
Ebbetts Pass Techite Water Line Replacement	750,000	-	150,000	600,000	-	-	-
Sawmill & Hunters Tanks / Repair & Paint	1,200,000	-	240,000	960,000	-	-	-
Ebbetts Pass Reach 1 Water Line Replacement	5,000,000	-	750,000	2,000,000	2,250,000	-	-
Clearwell & Tank B / Repair & Paint	1,000,000	-	50,000	150,000	800,000	-	-
Wilson Dam	500,000	-	25,000	75,000	250,000	150,000	-
White Pines / Blagen Mill Pond	1,000,000	-	50,000	100,000	350,000	500,000	-
Sheep Ranch - New Water Plant & Clearwell	900,000	-	-	45,000	225,000	630,000	-
West Point Ranch Backup Water Filter	1,200,000	-	-	60,000	120,000	420,000	600,000
Jenny Lind Tank A-B Transmission Line	4,150,000	-	-	-	80,000	250,000	1,750,000
Jenny Lind Tanks (4) / Repair & Paint	1,000,000	-	-	-	50,000	150,000	800,000
TOTAL WATER PROJECTS	\$ 28,350,000	\$ 2,104,073	\$ 9,694,327	\$ 4,906,600	\$ 4,225,000	\$ 2,200,000	\$ 3,150,000

Water projects - funding

<i>Water Projects Project Description</i>	Total Project Cost	Expansion Funds	Reserves	Capital R & R	Grants	AD / Other Outside
Redwood Tank Replacement	1,475,000	-	290,000	315,000	870,000	-
Ebbetts Pass Reach 3A Pipeline Replacement	5,300,000	-	-	3,920,000	1,380,000	-
Water Master Plan	100,000	100,000	-	-	-	-
Water Master Plan	100,000	100,000	-	-	-	-
Jenny Lind WTP - Pretreatment Facility	3,800,000	-	-	981,500	2,818,500	-
Clearwell #2 / Repair & Paint	75,000	-	-	75,000	-	-
Larkspur Tank / Repair & Paint	150,000	-	-	150,000	-	-
Wallace Tanks / Repair & Paint	250,000	-	-	250,000	-	-
Pipeline Replacements/Relocations	400,000	-	-	400,000	-	-
Ebbetts Pass Techite Water Line Replacement	750,000	-	-	750,000	-	-
Sawmill & Hunters Tanks / Repair & Paint	1,200,000	-	-	1,200,000	-	-
Ebbetts Pass Reach 1 Water Line Replacement	5,000,000	1,500,000	-	3,500,000	-	-
Clearwell & Tank B / Repair & Paint	1,000,000	-	-	1,000,000	-	-
Wilson Dam	500,000	-	-	500,000	-	-
White Pines / Blagen Mill Pond	1,000,000	-	-	1,000,000	-	-
Sheep Ranch - New Water Plant & Clearwell	900,000	-	-	900,000	-	-
West Point Ranch Backup Water Filter	1,200,000	-	-	1,200,000	-	-
Jenny Lind Tank A-B Transmission Line	4,150,000	-	-	4,150,000	-	-
Jenny Lind Tanks (4) / Repair & Paint	1,000,000	-	-	1,000,000	-	-
TOTAL WATER PROJECTS	\$ 28,350,000	\$ 1,700,000	\$ 290,000	\$ 21,291,500	\$ 5,068,500	\$ -

Water - grant funding

- Ebbetts Pass Reach 3A Water Pipeline Replacement - \$1,380,000 (USDA)
- Redwood Tank Replacement - \$870,000 (Cal-OES/FEMA)
- Jenny Lind Pretreatment Project - \$2,818,500 (Cal-OES/FEMA)
- District will continue to pursue grants to offset or fund water projects

Water R&R - funding

Capital R&R	FY 15-16	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21
Revenues	3,110,000	3,110,000	3,110,000	3,110,000	3,110,000	3,110,000
Debt Service	87,548	87,309	734,183	1,180,407	1,180,406	1,180,406
Net Revenues	\$ 3,022,452	\$ 3,022,691	\$ 2,375,817	\$ 1,929,593	\$ 1,929,594	\$ 1,929,594

Capital R&R	FY 15-16	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21
Net Revenues	3,022,452	3,022,691	2,375,817	1,929,593	1,929,594	1,929,594
Expenditures	1,773,386	5,577,405	4,512,926	2,610,000	2,183,000	3,150,000
Rev less Exp	\$ 1,249,066	\$ (2,554,714)	\$ (2,137,109)	\$ (680,407)	\$ (253,406)	\$ (1,220,406)

Fund 125	FY 15-16	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21
Beginning Balance	7,568,227	8,817,293	6,262,579	4,125,470	3,445,064	3,191,657
Revenues less Expenditures	1,249,066	(2,554,714)	(2,137,109)	(680,407)	(253,406)	(1,220,406)
Ending Balance	\$ 8,817,293	\$ 6,262,579	\$ 4,125,470	\$ 3,445,064	\$ 3,191,657	\$ 1,971,251

Water R&R fund - summary

- Water loan – last payment March 1, 2021
- Projected fund balance end of FY 20-21: \$1.97 million
- Challenges:
 - Restricted funding for large projects
 - Postpones projects until cash is available
 - Limited funds for emergency projects
- With September 1, 2016 rate increase - projected fund balance at end of FY 20-21: \$4.82 million

Wastewater projects

<i>Wastewater Projects Project Description</i>	Total Project Cost	Cash Flow					
		Thru 06/16	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21
Copper Cove WWTP Reclaim Permit Project	250,000	129,000	121,000	-	-	-	-
Copper Cove Master Plan Update	100,000	-	70,000	30,000	-	-	-
La Contenta Master Plan Update	100,000	-	70,000	30,000	-	-	-
Wallace Treatment Plant Renovations	250,000	-	125,000	125,000	-	-	-
Lift Station Renovations	1,000,000	-	350,000	350,000	300,000	-	-
Vallecito WWTP Title 22 Project	250,000	-	125,000	125,000	-	-	-
Vallecito I & I / Equalization Improvements	500,000	-	125,000	375,000	-	-	-
Vallecito Road Improvements	125,000	-	-	125,000	-	-	-
Regional Sludge Drying / Containment Facility	500,000	-	225,000	275,000	-	-	-
CC Lift Station 8,12,13 & Force Main Bypass	1,500,000	-	225,000	750,000	525,000	-	-
West Point Wilseyville Consolidation Grant	4,750,000	-	712,500	2,612,500	1,425,000	-	-
La Contenta Secondary Clarifier	1,000,000	-	-	50,000	150,000	600,000	200,000
Arnold Secondary Clarifier	1,000,000	-	-	50,000	150,000	600,000	200,000
TOTAL WASTEWATER PROJECTS	\$ 11,325,000	\$ 129,000	\$ 2,148,500	\$ 4,897,500	\$ 2,550,000	\$ 1,200,000	\$ 400,000

Wastewater projects - funding

<i>Wastewater Projects Project Description</i>	Expansion Funds	Reserves	Capital R & R	Grants	AD / Other Outside
Copper Cove WWTP Reclaim Permit Project	-	-	250,000	-	-
Copper Cove Master Plan Update	100,000	-	-	-	-
La Contenta Master Plan Update	100,000	-	-	-	-
Wallace Treatment Plant Renovations	-	-	150,000	-	100,000
Lift Station Renovations	-	-	1,000,000	-	-
Vallecito WWTP Title 22 Project	-	-	62,000	188,000	-
Vallecito I & I / Equalization Improvements	-	-	500,000	-	-
Vallecito Road Improvements	-	-	125,000	-	-
Regional Sludge Drying / Containment Facility	-	-	500,000	-	-
CC Lift Station 8,12,13 & Force Main Bypass	-	-	1,500,000	-	-
West Point Wilseyville Consolidation Grant	-	-	-	4,750,000	-
La Contenta Secondary Clarifier	250,000	-	750,000	-	-
Arnold Secondary Clarifier	250,000	-	750,000	-	-
TOTAL WASTEWATER PROJECTS	\$ 700,000	\$ -	\$ 5,587,000	\$ 4,938,000	\$ 100,000

Wastewater - grant funding

- Vallecito/DF Title 22 - \$188,000 (Prop 84/T-Stan)
- West Point / Wilseyville Consolidation - \$4.75 million grant dependent upon resolution of wastewater operating fund deficiency
- District will continue to pursue grants to offset or fund water projects

Wastewater R&R - funding

Capital R&R	FY 15-16	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21
Revenues	1,162,000	1,162,000	1,162,000	1,162,000	1,162,000	1,162,000
Debt Service	321,731	321,724	377,739	397,010	397,011	397,010
Net Revenues	\$ 840,269	\$ 840,276	\$ 784,261	\$ 764,990	\$ 764,989	\$ 764,990

Capital R&R	FY 15-16	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21
Net Revenues	840,269	840,276	784,261	764,990	764,989	764,990
Expenditures	886,169	1,152,000	2,056,000	1,050,000	900,000	300,000
Revenues less Expenditures	\$ (45,900)	\$ (311,724)	\$ (1,271,739)	\$ (285,010)	\$ (135,011)	\$ 464,990

Fund 135	FY 15-16	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21
Beginning Balance	2,285,709	2,239,809	1,928,086	656,346	371,336	236,325
Revenues less Expenditures	(45,900)	(311,724)	(1,271,739)	(285,010)	(135,011)	464,990
Ending Balance	\$ 2,239,809	\$ 1,928,086	\$ 656,346	\$ 371,336	\$ 236,325	\$ 701,315

Wastewater R&R fund - summary

- Wastewater loan – last payment March 1, 2021
- Projected fund balance end of FY 20-21: \$701,000
- Challenges:
 - Copper Cove Reclaim Permit project ongoing
 - Postpones larger projects until cash is available
 - Limited funds for emergency projects
- With September 1, 2016 rate increase - projected fund balance at end of FY 20-21: \$1.61 million

Rates

- Resolution 2015-08 suspended the Sept 1, 2015 water and wastewater rate increases until Sept 1, 2016
 - Water - \$5.11 per month increase
 - Wastewater - \$3.84 per month increase
- Staff recommendation – eliminate the Sept 1, 2016 rate increases for water and wastewater