



# Budget

2018-2019



This page intentionally left blank

## Our Mission

***Water and wastewater specialists providing exceptional and sustainable services.***

This mission of exceptional and sustainable services is reflected in this budget and in the attitudes and commitment of the Vallecitos Water District staff and Board Members.



Clockwise: Hal Martin, James Hernandez (center), Craig Elitharp, Betty Evans and Mike Sannella

### Board of Directors

James Hernandez, President

Hal Martin, Vice President

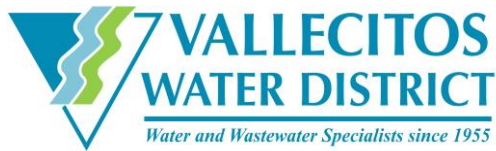
Craig Elitharp

Betty Evans

Mike Sannella

Vallecitos Water District is a public agency organized in 1955, proudly serving the City of San Marcos, portions of Escondido, Carlsbad, Vista, and the surrounding unincorporated areas.

This page intentionally left blank



201 Vallecitos de Oro • San Marcos, California • 92069-1453 • (760) 744-0460

Date: June 6, 2018  
To: Honorable Board of Directors  
Regarding: Fiscal Year 2018/19 Budget

Enclosed is the **Budget** for Fiscal Year 2018/19 (FY 18/19). The budget totals \$201.7 million compared to \$175.4 million for the 2017/18 budget. The FY 18/19 Budget is comprised of \$57 million of operational expenses (a 7.6% increase from the \$53 million in 2017/18 operating budget) and a commitment of \$144.7 million for capital items and projects (\$122.4 million in 2017/18).

The operational increase of \$4 million is attributable to a projected \$3.7 million increase in cost of water purchases as the District moves further from the drought and purchases more water. The remaining \$0.3 million is mainly from planned engineering studies, increasing costs of power, and general and administrative costs. In addition, \$9.1 million from operations is being transferred to reserves for capital replacement.

The revenue estimates included in this budget reflect rate increases for Water, Sewer and Ready-to-Serve approved as part of the cost of service study that accompanied the Fiscal Year 2017/18 budget. No additional rate increases have been incorporated into the Fiscal Year 2018/19 budget. The rates are to recover the costs of service and meet strategic and financial objectives of the budget.

#### Long-range Financial Planning

As with recent budgets, this budget includes a 10-year projection of operating costs and capital needs in order to plan for a sound future in water supply and reliability. Fiscal sustainability is absolutely a necessary factor in the equation for future reliability and is a guiding influence in everything the District does.

All District employees are responsible to consider costs involved with activities and try to work as efficiently and effectively as possible. Consideration of controlling costs translates into the future viability of the District. Some of these considerations are: rate affordability; maintaining reserves, assess adequacy to cover debt obligations now and in the future; and a credit worthy cash position. We plan to meet our capital needs and maintain a strong financial position without incurring any new debt.

#### FINANCIAL HIGHLIGHTS

The following narratives are financial highlights and comparisons of this budget, FY 2018/19, and last budget, FY 2017/18.

#### Water Operations (pages 3-14)

Water purchases are projected to total 16,700 acre feet with sales of 15,650 acre feet for 2018/19. The water operating budget increased by \$0.4 million from last year's budget, excluding water costs. With water costs, the budget increased \$4.1 million, or 10.4%.

Board of Directors

June 6, 2018

Page Two

Wastewater Operations (pages 15-24)

Wastewater operating costs decreased \$0.1 million, or (0.8%), over last year's budget due to savings in personnel costs, efficiencies in treatment, and outside services. Reclaimed water costs are recovered by contractual sales to the Carlsbad Municipal Water District and Olivenhain Municipal Water District.

Personnel (pages 25-31)

Fiscal year 2018/19 does not add any new positions. One position was reclassified at no additional cost to the District. Salaries and benefits for 2018/19 decreased from the last budget year by \$21 thousand or (0.1%) as a result of vacant positions due to retirement being filled at lower pay rates and for part of the budget year. Management will continue to scrutinize the need for all positions and only fill positions if absolutely necessary.

Capital Budget (pages 33-88)

Capital projects are summarized on the Comprehensive Project List found on page 34. Details of each project, including timing of phases and spending, are presented on pages 36 through 88, followed by requests for easements, vehicles and equipment of \$778,000. Of the \$143.9 million capital budget, \$43.9 million are new requests and \$22.9 million are for future projects included for planning purposes. The remainder is from projects carried over from the prior year resulting in a capital budget increase of \$22.3 million.

Reserve Budget and Projection (pages 98-104)

The Reserve Budget includes revenues and transfers from various sources and summarizes appropriations and expected cash outflows for debt service and capital projects. Page 92 displays the 2018/19 reserve budget for consideration. Pages 93 through 97 display detailed reserve projections for four subsequent years followed by a summary projection for the five years thereafter.

As a final note, our projections are based on trends, anticipated large one-time expenditures, economic factors within our industry, and global factors influencing our operations. Obviously, a good amount of forethought and monitoring at both the Board and staff levels has been required to produce such a realistic and useable financial guide.

Respectfully submitted,

Glenn Pruim, General Manager

**VALLECITOS WATER DISTRICT**

---

BUDGET FOR THE YEAR ENDING JUNE 30, 2019

TABLE OF CONTENTS

<u>Section</u>	<u>Page#</u>
Budgetary Considerations .....	1
Chart - Overall Budget .....	2
<b>Operations</b> .....	<b>3</b>
Water Statistics Graphs .....	4
Function Definitions - Water Operations .....	6
Graph - Water Operating Budget .....	10
Water Operations Budget .....	11
Water Operations Budget Expense Detail .....	12
Wastewater Statistics Graphs .....	15
Function Definitions - Wastewater Operations .....	18
Chart - Wastewater Operating Budget .....	20
Wastewater Operations Budget .....	21
Wastewater Operations Budget Expense Detail .....	22
Salary and Benefit Recap .....	25
Organization Chart .....	26
Personnel Budget .....	31
Public Awareness & Conservation Programs .....	32
<b>Capital</b> .....	<b>33</b>
Master Projects List .....	34
Capital Improvement Program Detail .....	36
Vehicles and Equipment Schedule .....	89
Debt Service .....	90
<b>Long-Range Planning</b> .....	<b>91</b>
Reserve Budget .....	92
Reserve Projections .....	93
Replacement Reserve Limits .....	98

This page intentionally left blank



# VALLECITOS WATER DISTRICT

---

BUDGET FOR THE YEAR ENDING JUNE 30, 2019

## BUDGETARY CONSIDERATIONS

### Mission Statement

*Water and wastewater specialists providing exceptional and sustainable services.*

The budget reflects the mission statement

### Budgetary Approach

Governmental agencies, such as cities and counties, usually approach their budgets from the “revenue end.” Since their revenues are somewhat predictable and restricted, their budgetary considerations are based on setting a level of service (expense total) that can be attained with those available funds.

A special district, however, must make a more thorough analysis. Normally, the expenses can be determined with a high degree of accuracy, and it’s the revenues that must be set to cover those expenses. To complicate matters, factors such as weather variability and customer usage habits can have a profound effect on the overall revenue projection.

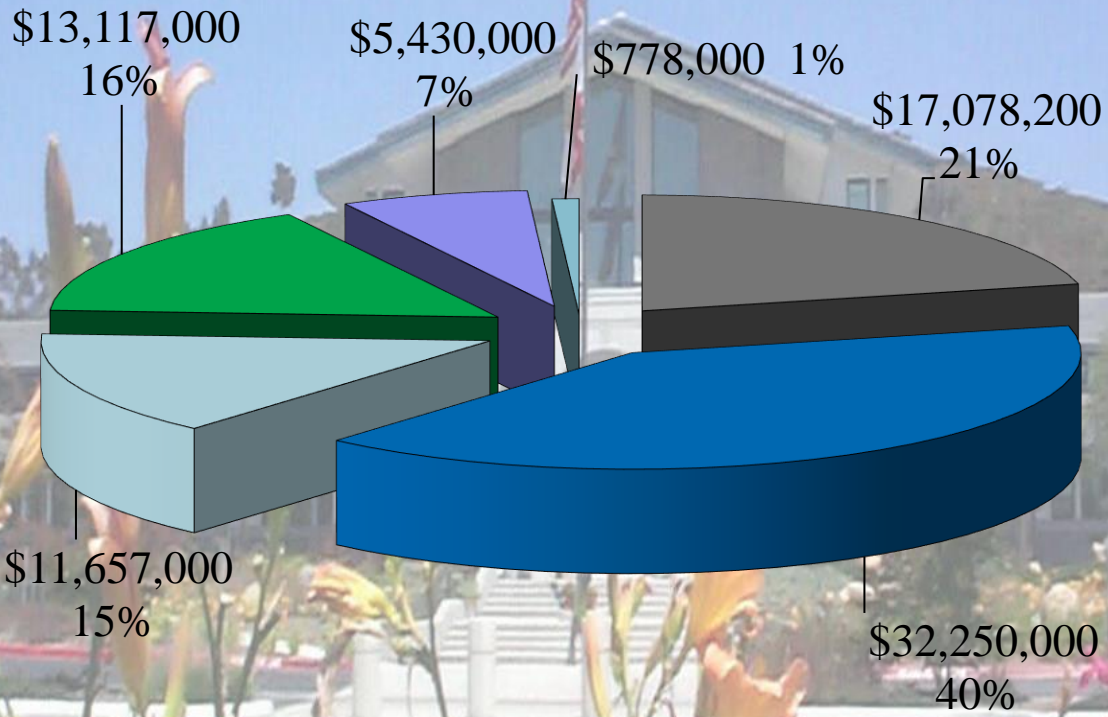
### Operations vs. Capital Budget

The budget is designed to ensure various revenues and fees are used as intended. The Operations Budget, which covers the ongoing cost of running the District, is paid by the rate payers of the District through charges for water and sewer service. The Capital Facilities Budget is covered primarily by fees on new development and existing customers with increased demands.

Operating revenue in excess of operating expense is earmarked for transfer to the Replacement Reserve Fund for the future replacement of assets. This ensures the current users of our system are paying their fair share for the maintenance of existing facilities as they depreciate.

FISCAL YEAR 2018-19 BUDGET

\$80,310,200



- Capital
- Water Operations
- Debt Service
- Water Purchases
- Wastewater Operations
- Easements, Vehicles & Equipment

## 2018-19 OPERATING BUDGET

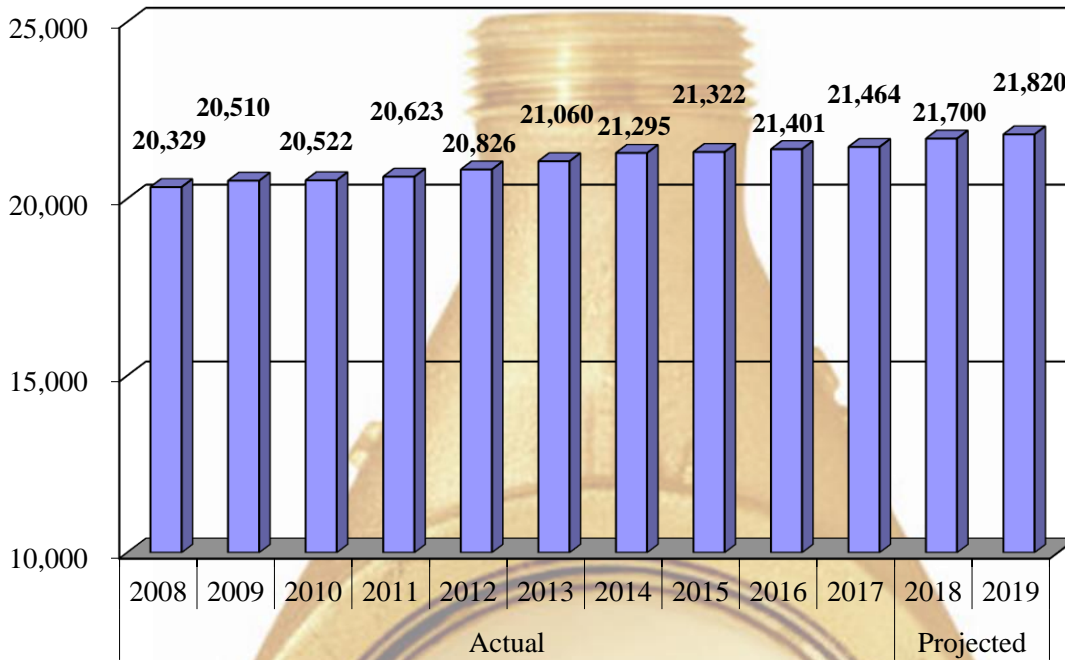
### WATER



*Double Peak Tank*

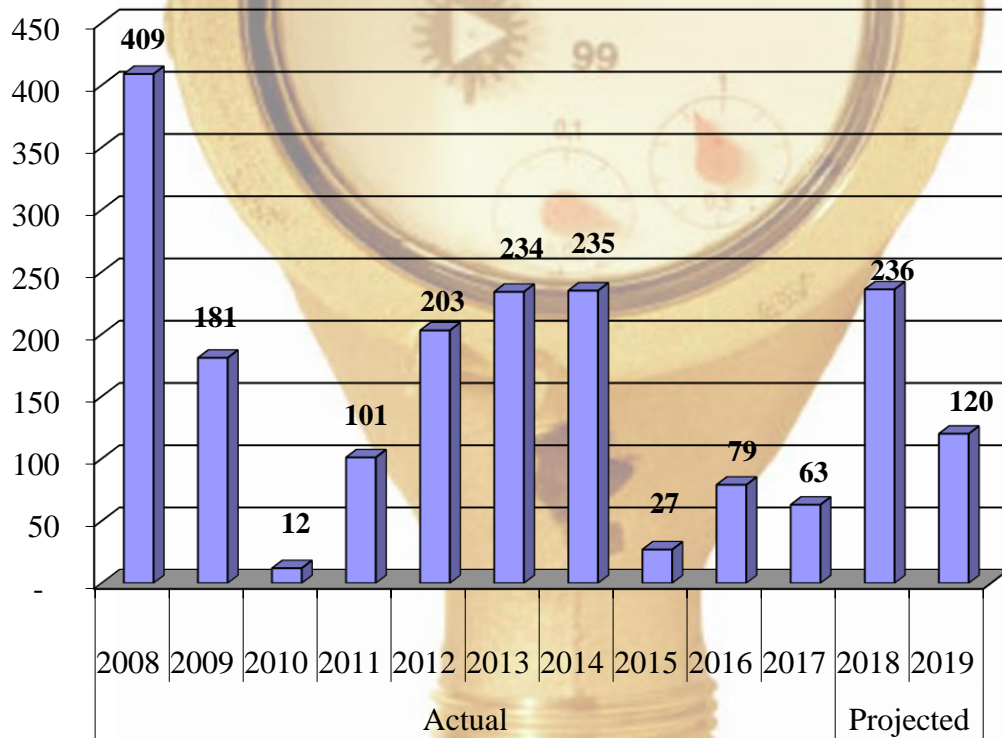
**VALLECITOS WATER DISTRICT**

**METERS IN SERVICE**



Fiscal Year End June 30

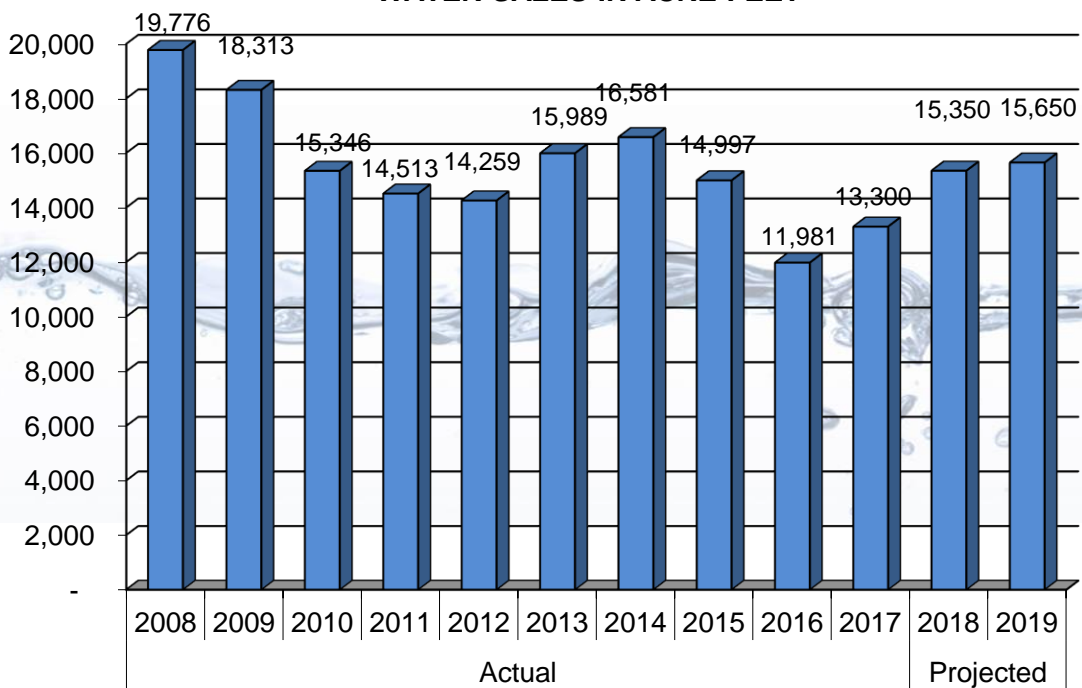
**METER ADDITIONS**



Fiscal Year End June 30

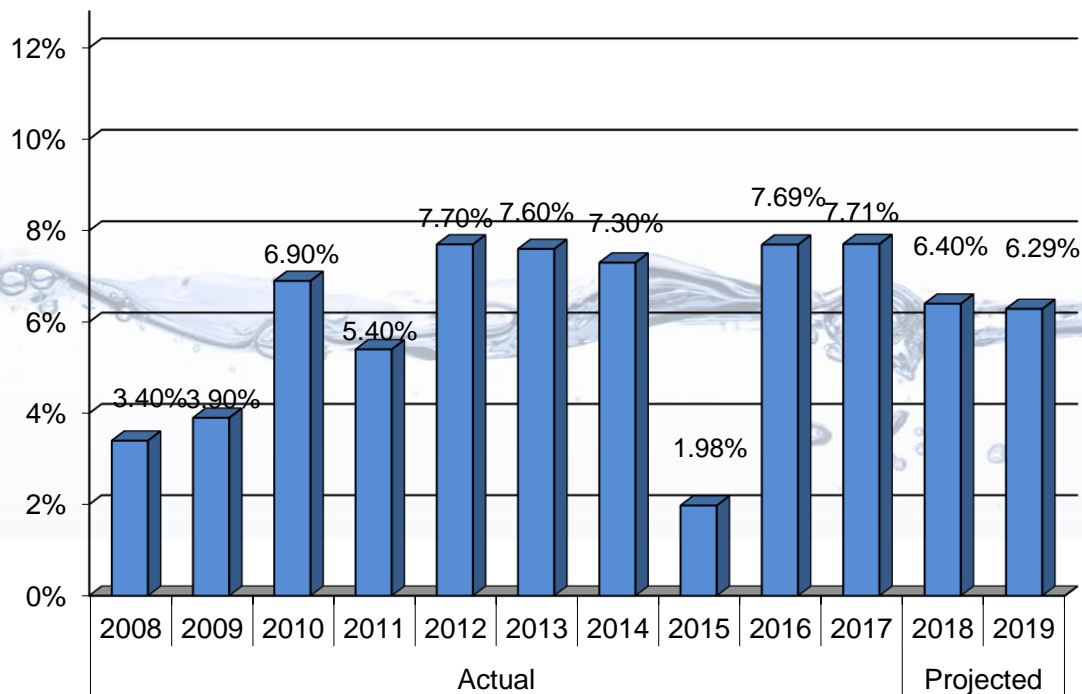


**WATER SALES IN ACRE FEET**



Year End Jun 30

**UNBILLED WATER**



Year End June 30

*Unbilled Water includes use acquired with one-day permits, tie-ins, operational use, fire hydrant damage and use, meter malfunctions, leaks and timing differences*



# VALLECITOS WATER DISTRICT

---

BUDGET FOR THE YEAR ENDING JUNE 30, 2019

## FUNCTION DEFINITIONS - WATER OPERATIONS

### *REVENUES*

Water Sales: Monthly charges to cover the wholesale cost of water, with a minimal markup targeted to cover some operating costs and provide funds for capital improvements and replacement.

Ready To Serve: Monthly charge to cover fixed costs, regardless of water sales. Examples include maintenance of reservoirs and transmission lines, meter reading and administrative costs such as insurance.

Pumping Charges: Charges to customers at high elevations, to cover the power costs required to deliver water.

Interest and Other: Interest revenue, late charges, backflow fees, engineering fees and other miscellaneous revenues.

### *OPERATING EXPENSES*

Water Purchases: Vallecitos purchases its water from two sources: The San Diego County Water Authority (SDCWA) and the Olivenhain Municipal Water District. Desalinated water is included in the water purchased from SDCWA.

Pumping: To move water to various elevations, and to provide adequate pressure and storage to higher service connections. Includes maintenance of ten pump stations, readings, and power costs.

Water Quality: To monitor incoming water in accordance with federal and state regulations. Includes collecting samples and reporting results, and maintenance of monitoring equipment.

Water Treatment: To treat water in tanks, handle chemicals, and use and maintain injection equipment for pipelines.

Tanks and Reservoirs: Maintenance of 17 steel tanks and 2 reservoirs. Includes corrosion control, security, and water level monitoring.

Transmission and Distribution: Maintenance of pipeline system within 45 square miles, consisting of 329 miles of pipes. Includes 26 pressure reducing stations, 3 (internal) flow control facilities, all air releases/blow-offs, fire hydrants (buried portion), cross-tie valves with other districts, and valve exercising.

Services: Maintenance of all service lines located from main lines to meters.

# VALLECITOS WATER DISTRICT

---

## BUDGET FOR THE YEAR ENDING JUNE 30, 2019

### FUNCTION DEFINITIONS - WATER OPERATIONS (Continued)

Meters: Reading approximately 21,800 meters monthly for billing purposes as well as maintenance of all customer meters.

Backflow Prevention: Ensures compliance with Title 17, requiring backflow devices for specific connections to protect quality of water in our system.

Customer Accounts: Costs related to opening and closing accounts, response to customer concerns, billing costs (statements, mailing), and uncollectible accounts.

Equipment and Vehicles: Maintenance of District equipment. Includes all construction equipment, water, sewer and administrative vehicles, plus miscellaneous tools and equipment.

Buildings and Grounds: Maintenance of administrative and operations buildings, warehouse, and shops. Also includes power costs, alarmed security system, landscape service, janitorial, and pest control.

Engineering: All costs of engineering, capital facilities and inspection services. Includes review and monitoring of development to ensure compliance with standard design practices, impact on existing system and environment, and orderly planning to provide adequate water and sewer service as demand dictates.

Safety and Regulatory Affairs: Program to control unnecessary risks, hazardous conditions, and unsafe practices, and minimize physical losses, personnel injuries, and district liability, and to provide for regulatory compliance in environmental, public health and other mandated areas.

Information Technology: Centralization of the District's technology to maintain hardware, software, servers, networks, and interfaces.

#### General and Administrative

##### Cost of Labor:

- *Salaries* include administrative and conservation personnel salaries and all vacation, sick leave, and holiday time for administrative and water personnel.
- *Group Insurance* is health, vision, and dental costs for all administrative and water personnel.
- *Workers' Compensation Insurance* costs for all administrative and water personnel.
- *Public Employees Retirement System (PERS)* participation costs for all administrative and water personnel.
- *Social Security* costs for all administrative and water personnel.

## VALLECITOS WATER DISTRICT

---

### BUDGET FOR THE YEAR ENDING JUNE 30, 2019

#### FUNCTION DEFINITIONS - WATER OPERATIONS (Continued)

##### General and Administrative (continued)

- *Other Taxes/Benefits* includes unemployment and other miscellaneous employee taxes and benefits such as annual luncheon, and awards for all personnel.

*District Insurance* premium costs protect District assets, such as buildings and vehicles, and provide liability coverage for potential claims.

*Outside Services* are provided by consultants and temporary help.

*Legal* costs are incurred for general legal counsel (presence at board meetings, contracts, employment issues, etc.)

*Auditing* is conducted by a certified public accounting firm to provide an opinion on the annual financial report.

*Banking Services* are provided to maintain the District's general checking account plus trust and custody services.

*Office Supplies* are purchased for necessary administration of the District including office equipment costing less than the capitalization threshold.

*Postage* not related to public relations or customer billing includes notifications, such as shutdowns and public hearing notification mailings.

*Office Equipment Repair* covers maintenance contracts on computer system, billing equipment, copiers, telephone system, and other repairs as needed.

*Telephone* costs are for service at administration and water operations, long distance, data lines, and cellular phone service for field and key personnel.

*Travel* costs are for administrative and water personnel.

*Meetings and Seminars* for administrative and water personnel provide District representation and professional development.

*Dues and Subscriptions* are for memberships and periodicals to various organizations, such as American Water Works Association (AWWA).

*Public Awareness/Conservation* is the "image and information" arm of the District, utilizing publications, special events, the speakers' bureau, and the VWD School Program to present Vallecitos as the "Water and Wastewater Specialists" and promote effective water conservation programs.

# VALLECITOS WATER DISTRICT

---

## BUDGET FOR THE YEAR ENDING JUNE 30, 2019

### FUNCTION DEFINITIONS - WATER OPERATIONS (Continued)

#### General and Administrative (continued)

*Regulatory Fees* are incurred for renewal fees for personnel certifications such as water distribution and treatment, notary, and professional memberships, state regulatory agencies, and other compliance matters.

*Election and Annexations* facilitation costs are assessed by the County.

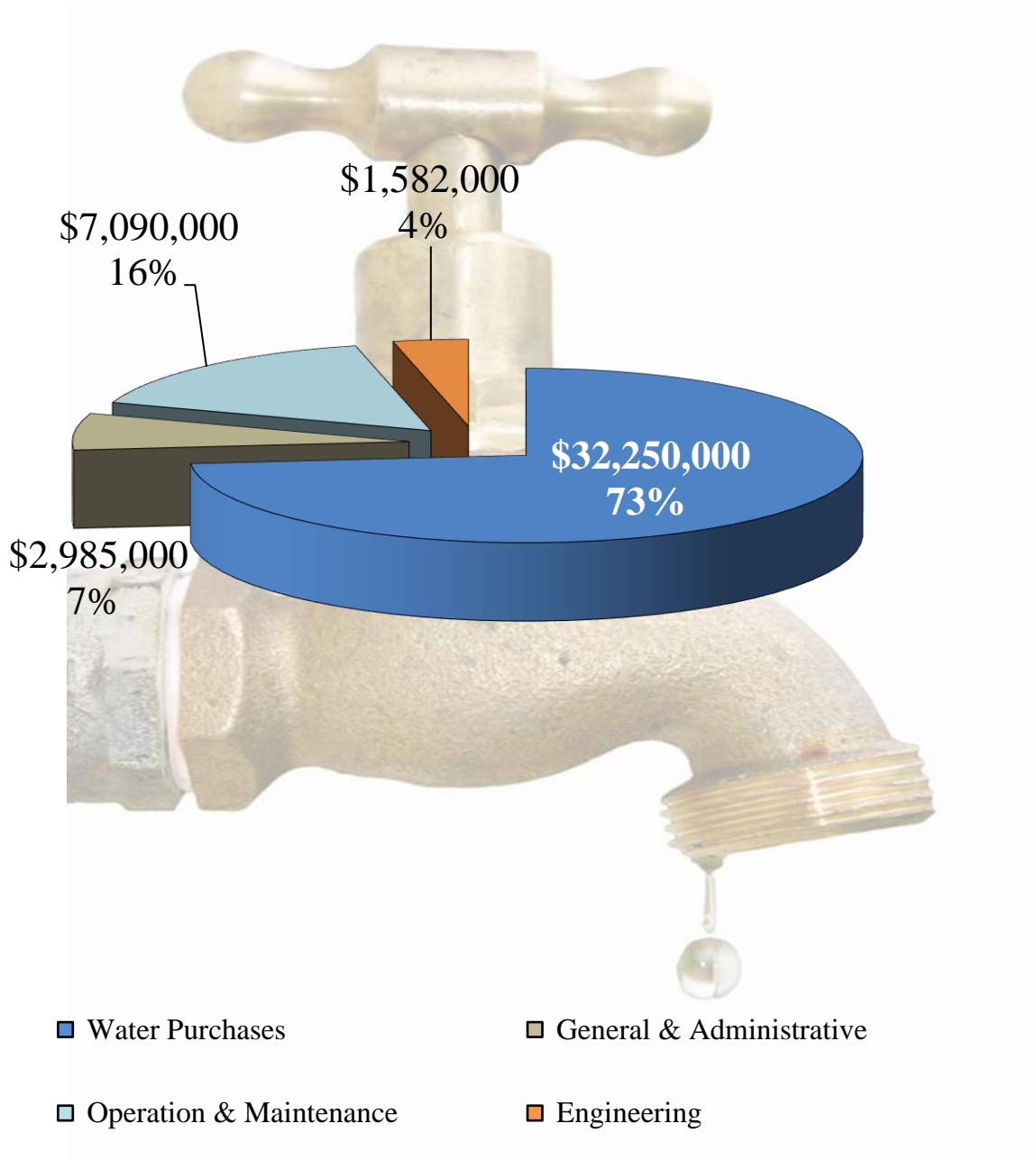
*Director Fees* are paid for attendance of board meetings, professional conferences, and other District-sanctioned organizations.

*Director Expenses* include all costs incurred by Directors, such as travel reimbursement and conference fees.

*Other/Mandated Reimbursements* include miscellaneous expenses that do not specifically apply to any of the above-referenced categories less mandated cost reimbursements due from the State.

*Administrative Credit Transfer* is a collection or recovery of overhead costs that are applied to all construction work orders.

2018-19 WATER OPERATING EXPENSE BUDGET  
\$43,907,000





**VALLECITOS WATER DISTRICT**
**WATER OPERATIONS BUDGET FOR THE YEAR ENDING JUNE 30, 2019**

		<u>Actual</u> FY 16-17	<u>Budget</u> FY 17-18	<u>Projected</u> FY 17-18	<u>Budget</u> FY 18-19	<u>Estimated</u> FY 19-20
<b>OPERATING REVENUES</b>						
Water Sales	4001	\$23,180,452	\$ 24,866,000	\$ 29,800,000	\$ 31,800,000	\$ 33,000,000
Ready to Serve	4003	13,850,592	13,619,000	13,600,000	13,300,000	13,752,000
Pumping Charges	4002	171,186	250,000	250,000	340,000	420,000
Interest	4401	70,369	5,000	5,000	5,000	5,000
Other	Various	740,799	675,000	675,000	685,000	695,000
<b>Total Revenue</b>		<u>38,013,398</u>	<u>39,415,000</u>	<u>44,330,000</u>	<u>46,130,000</u>	<u>47,872,000</u>
<b>OPERATING EXPENSES</b>						
Water Purchases	1010	27,392,003	28,531,000	31,800,000	32,250,000	33,860,000
Pumping	2010	612,069	677,000	688,000	838,000	931,000
Water Quality	2020	109,511	175,000	137,000	154,000	166,000
Water Treatment	2030	495,332	447,000	434,000	475,000	508,000
Tanks & Reservoirs	2040	312,604	416,000	338,000	451,000	472,000
Transmission & Dist.	2050	1,747,767	1,835,000	1,411,000	1,719,000	1,953,000
Services	2060	138,073	245,000	249,000	139,000	157,000
Meters	2070	625,576	629,000	652,000	675,000	731,000
Backflow Prevention	2080	74,878	64,000	48,000	66,000	68,000
Customer Accounts	4010	563,901	614,000	546,000	635,000	669,000
Equipment & Vehicles	4210	285,882	304,000	284,000	320,000	319,000
Buildings & Grounds	4110	400,812	362,000	378,000	377,000	378,000
Engineering	5010	1,418,906	1,388,000	1,413,000	1,582,000	1,556,000
Safety & Reg. Affairs	5210	233,479	261,000	231,000	268,000	280,000
Information Technology	6230	728,292	1,003,000	842,000	973,000	1,030,000
General & Admin.	6xxx	3,059,757	2,812,000	2,954,000	2,985,000	3,265,000
<b>Total Expense</b>		<u>38,198,842</u>	<u>39,763,000</u>	<u>42,405,000</u>	<u>43,907,000</u>	<u>46,343,000</u>
<b>OPERATING INCOME</b>		(185,444)	(348,000)	1,925,000	2,223,000	1,529,000
<b>LESS TRANSFERS TO REPLACEMENT RESERVE</b>		<u>(185,444)</u>	<u>(348,000)</u>	<u>1,925,000</u>	<u>2,223,000</u>	<u>1,529,000</u>
<b>NET INCOME</b>		<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>

**VALLECITOS WATER DISTRICT**
**WATER OPERATIONS BUDGET FOR THE YEAR ENDING JUNE 30, 2019**

		<u>Actual</u> <u>FY 16-17</u>	<u>Budget</u> <u>FY 17-18</u>	<u>Projected</u> <u>FY 17-18</u>	<u>Budget</u> <u>FY 18-19</u>	<u>Estimated</u> <u>FY 19-20</u>
WATER PURCHASES	5001	\$27,392,003	\$ 28,531,000	\$ 31,800,000	\$ 32,250,000	\$ 33,860,000
<b>PUMPING</b>						
Cost of Labor	2010xxx.51xx	84,567	104,000	112,000	118,000	127,000
Materials & Supplies	" .53xx	24,536	30,000	30,000	80,000	88,000
Outside Repair/Service	" .54xx	20,789	18,000	12,000	45,000	50,000
Power	" .5306	482,177	525,000	534,000	595,000	666,000
Total Pumping		<u>612,069</u>	<u>677,000</u>	<u>688,000</u>	<u>838,000</u>	<u>931,000</u>
<b>WATER QUALITY</b>						
Cost of Labor	2020000.51xx	37,144	63,000	50,000	54,000	58,000
Materials & Supplies	" .53xx	21,465	50,000	43,000	41,000	45,000
Outside Repair/Service	" .54xx	50,902	62,000	44,000	59,000	63,000
Total Water Treatment		<u>109,511</u>	<u>175,000</u>	<u>137,000</u>	<u>154,000</u>	<u>166,000</u>
<b>WATER TREATMENT</b>						
Cost of Labor	2030000.51xx	408,202	375,000	362,000	393,000	417,000
Materials & Supplies	" .53xx	60,709	42,000	50,000	50,000	57,000
Outside Repair/Service	" .54xx	16,720	20,000	15,000	20,000	22,000
Power	" .5306	9,701	10,000	7,000	12,000	12,000
Total Water Treatment		<u>495,332</u>	<u>447,000</u>	<u>434,000</u>	<u>475,000</u>	<u>508,000</u>
<b>TANKS &amp; RESERVOIRS</b>						
Cost of Labor	2040xxx.51xx	216,923	248,000	206,000	233,000	252,000
Materials & Supplies	" .53xx	15,056	25,000	24,000	47,000	42,000
Outside Repair/Service	" .54xx	76,427	138,000	104,000	165,000	171,000
Power	" .5306	4,198	5,000	4,000	6,000	7,000
Total Tanks & Reservoirs		<u>312,604</u>	<u>416,000</u>	<u>338,000</u>	<u>451,000</u>	<u>472,000</u>
<b>TRANSMISSION &amp; DISTRIBUTION</b>						
Cost of Labor	2050xxx.51xx	1,171,448	1,178,000	993,000	1,122,000	1,249,000
Materials & Supplies	" .53xx	182,215	265,000	192,000	260,000	272,000
Outside Repair	" .54xx	384,023	380,000	216,000	325,000	418,000
Power	" .5306	10,081	12,000	10,000	12,000	14,000
Total Trans. & Dist.		<u>1,747,767</u>	<u>1,835,000</u>	<u>1,411,000</u>	<u>1,719,000</u>	<u>1,953,000</u>
<b>SERVICES</b>						
Cost of Labor	2060xxx.51xx	69,058	100,000	98,000	102,000	117,000
Materials & Supplies	" .53xx	19,534	25,000	29,000	12,000	12,000
Outside Repair	" .54xx	49,481	120,000	122,000	25,000	28,000
Total Services		<u>138,073</u>	<u>245,000</u>	<u>249,000</u>	<u>139,000</u>	<u>157,000</u>

**VALLECITOS WATER DISTRICT**
**WATER OPERATIONS BUDGET FOR THE YEAR ENDING JUNE 30, 2019**

		Actual FY 16-17	Budget FY 17-18	Projected FY 17-18	Budget FY 18-19	Estimated FY 19-20
<b>METERS</b>						
Cost of Labor	2070xxx.51xx	\$ 595,587	\$ 565,000	\$ 580,000	\$ 622,000	\$ 684,000
Materials & Supplies	" .53xx	24,087	53,000	66,000	42,000	39,000
Outside Service/Repair	" .54xx	5,902	11,000	6,000	11,000	8,000
Total Meters		<u>625,576</u>	<u>629,000</u>	<u>652,000</u>	<u>675,000</u>	<u>731,000</u>
<b>BACKFLOW PREVENTION</b>						
Cost of Labor	2080000.51xx	70,939	25,000	4,000	20,000	22,000
Materials & Supplies	" .53xx	3,939	2,000	1,000	2,000	2,000
Outside Service	" .54xx	-	37,000	43,000	44,000	44,000
Total Backflow		<u>74,878</u>	<u>64,000</u>	<u>48,000</u>	<u>66,000</u>	<u>68,000</u>
<b>CUSTOMER ACCOUNTS</b>						
Cost of Labor	4010000.51xx	456,320	487,000	423,000	466,000	521,000
Materials & Supplies	" .53xx	49,037	55,000	64,000	85,000	77,000
Outside Service/Repair	" .54xx	32,401	32,000	22,000	44,000	39,000
Uncollectible Accts.	" .5703	26,143	40,000	37,000	40,000	32,000
Total Cust. Accts.		<u>563,901</u>	<u>614,000</u>	<u>546,000</u>	<u>635,000</u>	<u>669,000</u>
<b>EQUIPMENT &amp; VEHICLES</b>						
Cost of Labor	4210000.51xx	91,514	114,000	81,000	122,000	129,000
Materials & Supplies	" .53xx	66,270	65,000	59,000	65,000	67,000
Fuel	" .5307	88,783	95,000	84,000	93,000	97,000
Outside Repair	" .54xx	39,315	30,000	60,000	40,000	26,000
Total Equip. & Vehicles		<u>285,882</u>	<u>304,000</u>	<u>284,000</u>	<u>320,000</u>	<u>319,000</u>
<b>BUILDINGS &amp; GROUNDS</b>						
Cost of Labor	4110000.51xx	208,064	173,000	175,000	163,000	158,000
Materials & Supplies	" .53xx	23,023	63,000	31,000	62,000	64,000
Outside Services	" .54xx	73,489	76,000	61,000	92,000	94,000
Power	" .5306	96,236	50,000	111,000	60,000	62,000
Total Bldg. & Grnd.		<u>400,812</u>	<u>362,000</u>	<u>378,000</u>	<u>377,000</u>	<u>378,000</u>
<b>ENGINEERING</b>						
Cost of Labor	5010000.51xx	1,363,299	1,315,000	1,370,000	1,419,000	1,500,000
Materials & Supplies	" .53xx	12,255	25,000	8,000	15,000	17,000
Outside Services	" .54xx	43,352	48,000	35,000	148,000	39,000
Total Engineering		<u>1,418,906</u>	<u>1,388,000</u>	<u>1,413,000</u>	<u>1,582,000</u>	<u>1,556,000</u>

**VALLECITOS WATER DISTRICT**
**WATER OPERATIONS BUDGET FOR THE YEAR ENDING JUNE 30, 2019**

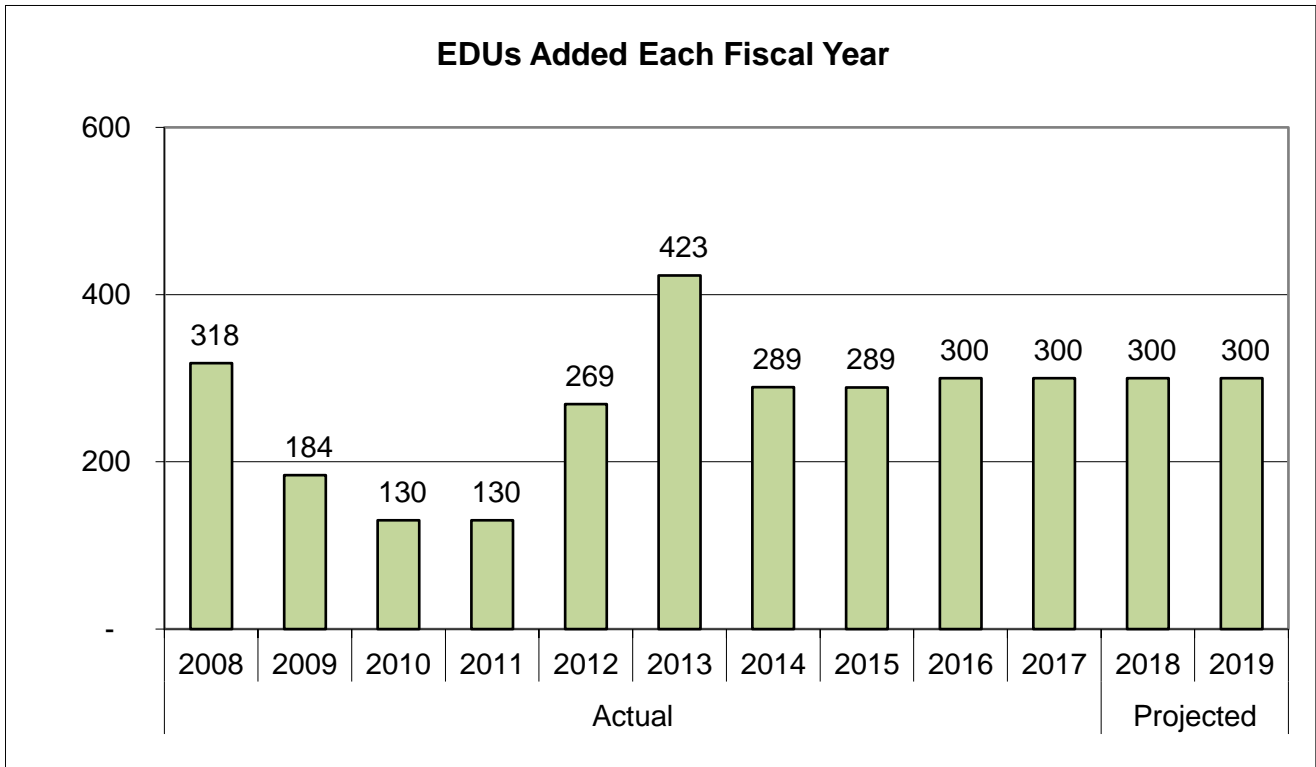
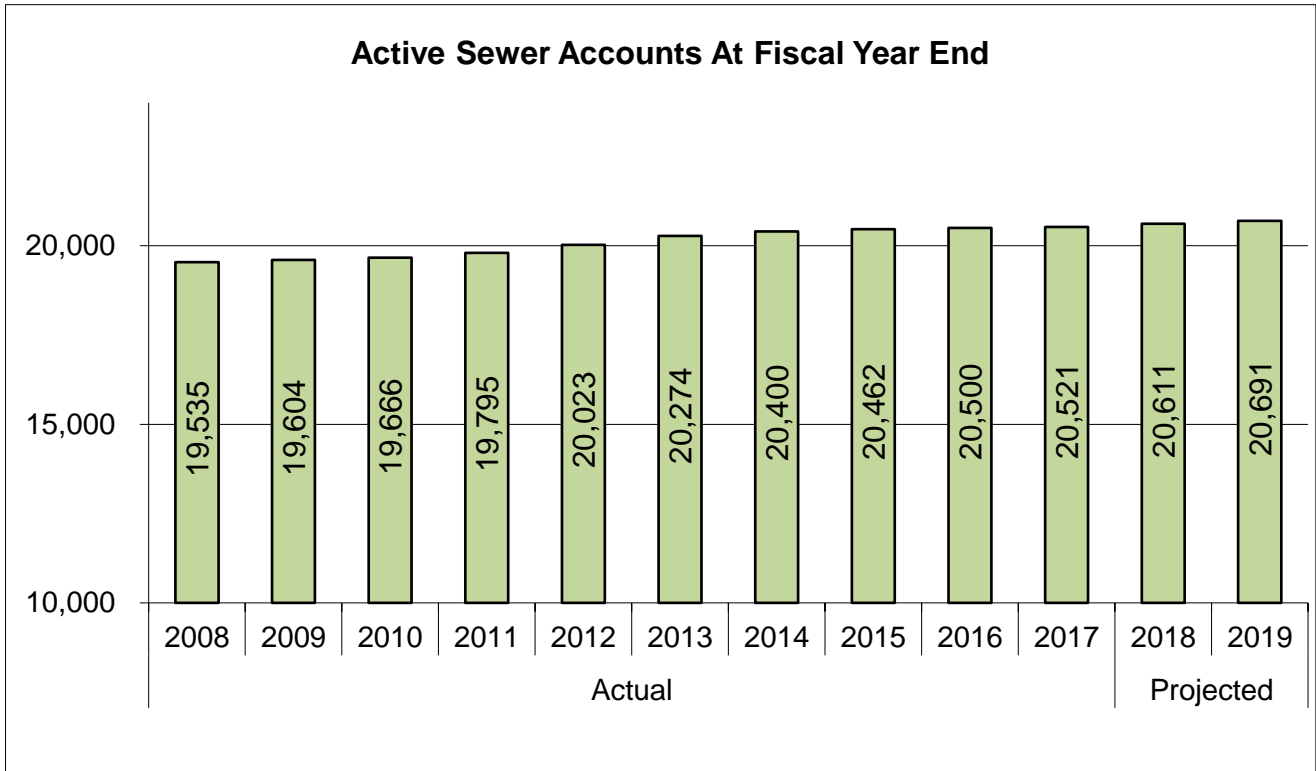
		Actual FY 16-17	Budget FY 17-18	Projected FY 17-18	Budget FY 18-19	Estimated FY 19-20
<b>SAFETY &amp; REG. AFFAIRS</b>						
Cost of Labor	5210000.51xx	\$ 215,209	\$ 234,000	\$ 211,000	\$ 238,000	\$ 250,000
Materials & Supplies	" .53xx	7,994	14,000	6,000	13,000	13,000
Safety Support	" .54xx	10,276	13,000	14,000	17,000	17,000
Total Safety		<u>233,479</u>	<u>261,000</u>	<u>231,000</u>	<u>268,000</u>	<u>280,000</u>
<b>INFORMATION TECHNOLOGY</b>						
Cost of Labor	6230000.51xx	438,533	523,000	365,000	525,000	570,000
Materials & Supplies	" .53xx	79,969	143,000	195,000	62,000	64,000
Outside Services	" .54xx	209,790	337,000	282,000	386,000	396,000
Total Information Tech		<u>728,292</u>	<u>1,003,000</u>	<u>842,000</u>	<u>973,000</u>	<u>1,030,000</u>
<b>GENERAL &amp; ADMINISTRATION</b>						
Cost of Labor	6xxxxxx.51xx	3,080,347	2,987,000	3,011,000	3,035,000	3,329,000
Directors Fees	" .5101	50,703	62,000	62,000	62,000	64,000
District Insurance	" .5201	137,963	163,000	144,000	161,000	179,000
Travel	" .5202	11,261	8,000	12,000	8,000	8,000
Meetings & Seminars	" .5203	20,642	31,000	18,000	31,000	32,000
Dues & Subscriptions	" .5204	53,791	72,000	69,000	73,000	75,000
Directors Expenses	" .5205	43,343	50,000	43,000	50,000	51,000
Office Supplies	" .5301	38,058	50,000	27,000	45,000	46,000
Awareness/Conservation	" .5303	91,026	77,000	102,000	79,000	81,000
Postage	" .5304	7,121	3,000	2,000	3,000	3,000
Outside Services	" .5401	94,921	90,000	48,000	102,000	105,000
Legal	" .5402	111,869	130,000	99,000	130,000	140,000
Auditing	" .5403	16,083	20,000	15,000	13,000	15,000
Bank/Investment Svcs	" .5501	17,390	20,000	20,000	45,000	46,000
Regulatory Fees	" .5502	57,061	57,000	73,000	57,000	58,000
Election & Annexation	" .5503	6,127	2,000	-	2,000	2,000
Other/Reimbursements		(40,648)	10,000	10,000	10,000	10,000
Admin Credit Transfer.	4702	(737,301)	(1,020,000)	(801,000)	(921,000)	(979,000)
Total Gen. & Admin.		<u>3,059,757</u>	<u>2,812,000</u>	<u>2,954,000</u>	<u>2,985,000</u>	<u>3,265,000</u>
<b>TOTAL EXPENSES</b>		<u>\$38,198,842</u>	<u>\$ 39,763,000</u>	<u>\$ 42,405,000</u>	<u>\$ 43,907,000</u>	<u>\$ 46,343,000</u>

2018-19 OPERATING BUDGET  
WASTEWATER

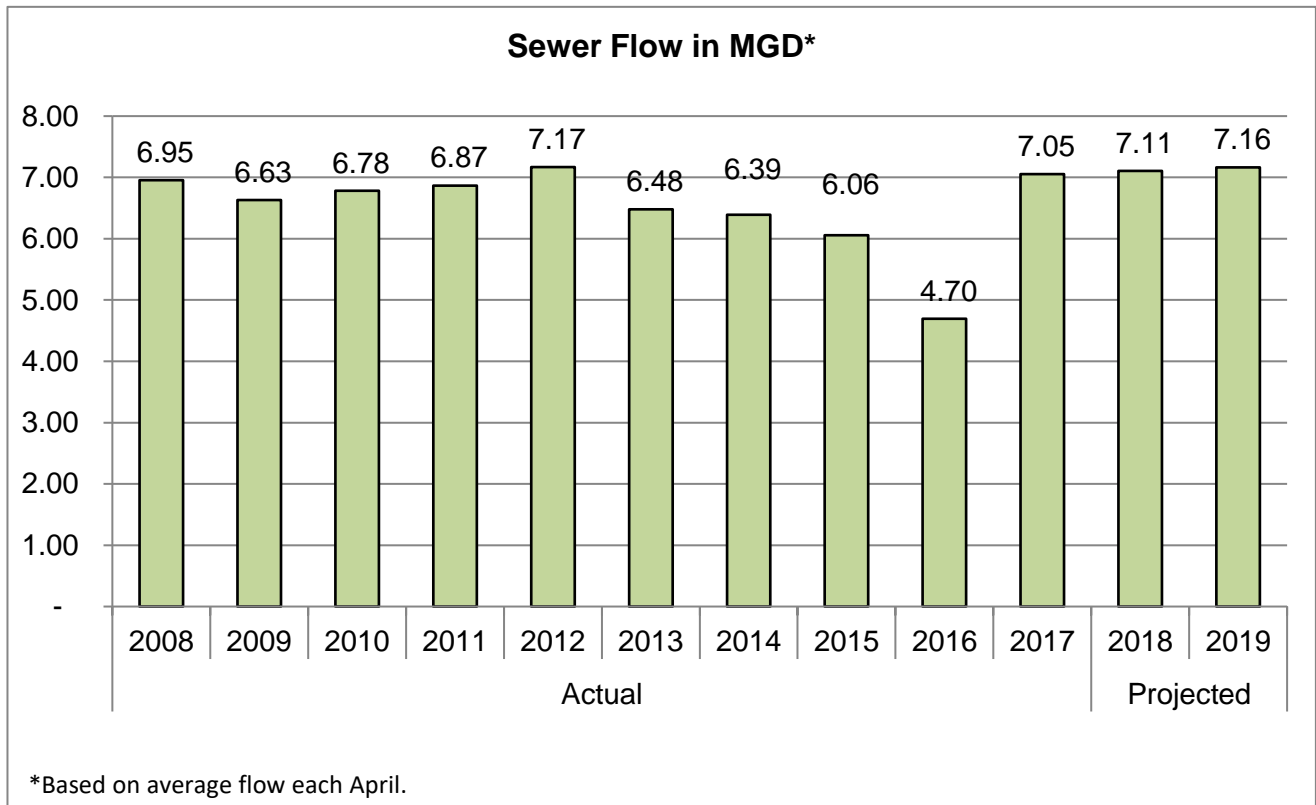
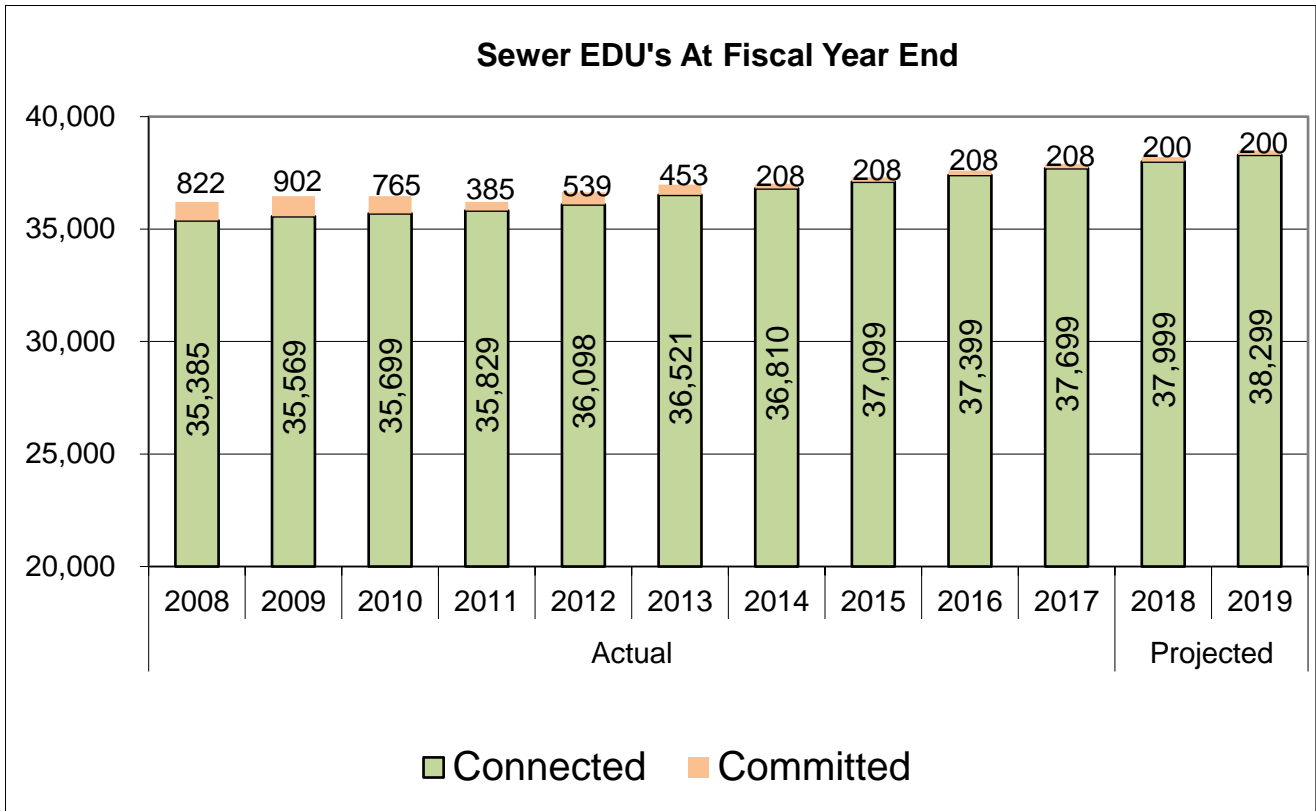


*Chlorine Contact Tank at Meadowlark Wastewater Reclamation Facility*





**VALLECITOS WATER DISTRICT**



# VALLECITOS WATER DISTRICT

---

## BUDGET FOR THE YEAR ENDING JUNE 30, 2019

### FUNCTION DEFINITIONS - WASTEWATER OPERATIONS

#### *REVENUES*

Sewer Service: Monthly charges to cover the cost to collect, treat and dispose of wastewater plus maintain the various wastewater facilities.

Reclaimed Water Sales: Revenue generated from contractual sale of reclaimed water to the Carlsbad Municipal Water District and the Olivenhain Municipal Water District on a cost recovery basis.

Other: Interest revenue, late charges, engineering fees and other miscellaneous revenues.

#### *OPERATING EXPENSES*

Collection and Conveyance: Maintaining flow in 249 miles of District sewer lines. Includes blockage removal, television inspection, and maintenance of pipeline system and manholes.

Lift Stations: Cost of lifting sewage flows at the Montiel Lift Station, Lake San Marcos Lift Station and Questhaven Lift Station. Includes maintenance and power costs of the pumping systems.

Source Control: Costs to ensure compliance with federal, state, and local regulations as administered through the Encina Wastewater Authority.

Encina Disposal: Cost reimbursement to the Encina Wastewater Authority for processing wastewater and returning clean water to the environment.

Meadowlark Plant: All costs attributed to treating wastewater and for production and sale of reclaimed water to City of Carlsbad, and OMWD including operation and maintenance of the plant, No. 1 Lift Station, and Mahr Reservoir.

Customer Accounts: Responds to customers, associated billing costs, and uncollectible accounts.

Equipment and Vehicles: Maintenance of sewer vehicles and equipment and transfer of a portion of administrative and water operations vehicle costs attributable to sewer.

Buildings and Grounds: A transfer of costs attributable to sewer.

Engineering: All attributable sewer engineering, capital facilities and inspection costs.

# VALLECITOS WATER DISTRICT

---

## BUDGET FOR THE YEAR ENDING JUNE 30, 2019

### FUNCTION DEFINITIONS - WASTEWATER OPERATIONS (Continued)

Safety and Compliance: A transfer of safety and regulatory affairs costs attributable to sewer operations.

Information Technology: Centralization of the District's technology to maintain hardware, software, servers, networks, and interfaces.

#### General and Administrative

##### Cost of Labor:

- *Salaries* include all vacation, sick leave, and holiday time for sewer personnel.
- *Group Insurance* is health, vision, and dental costs for all sewer personnel.
- *Workers' Compensation Insurance* covers all sewer personnel.
- *Public Employees Retirement System (PERS)* participation costs for all sewer personnel.
- *Social Security* cost for all sewer personnel.
- *Other Taxes* include unemployment and other miscellaneous employee taxes for sewer personnel.

*Travel* costs for sewer personnel.

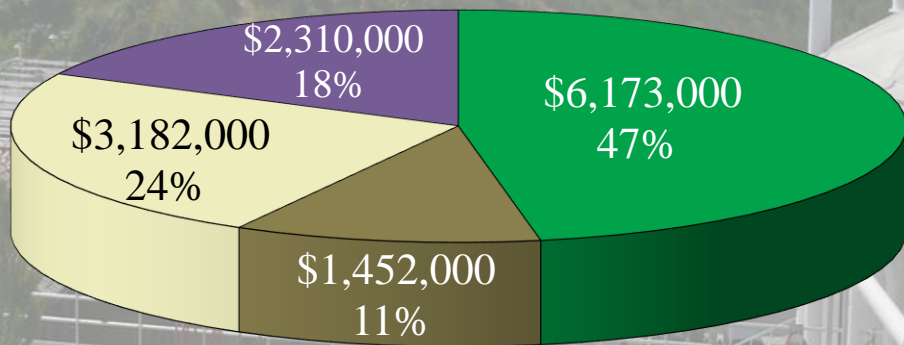
*Meetings and Seminars* fees for sewer personnel are to provide District representation and professional development.

*Dues and Subscriptions* are periodical costs for sewer-related activities.

*Other* includes miscellaneous expenses that do not specifically apply to any of the above-referenced categories.

*Administrative Credit Transfer* is the collection or recovery of overhead costs that apply to all construction work orders.

# 2018-19 WASTEWATER OPERATING EXPENSE BUDGET \$13,117,000



- Encina & Meadowlark Plant
- General & Administrative
- Operation & Maintenance
- Collection & Conveyance

**VALLECITOS WATER DISTRICT**

**WASTEWATER OPERATIONS BUDGET FOR THE YEAR ENDING JUNE 30, 2019**

		<u>Actual FY 16-17</u>	<u>Budget FY 17-18</u>	<u>Projected FY 17-18</u>	<u>Budget FY 18-19</u>	<u>Estimated FY 19-20</u>
<b>OPERATING REVENUES</b>						
Sewer Service	4101	\$ 17,503,448	\$ 17,510,000	\$ 17,900,000	\$ 17,954,000	\$ 18,008,000
Reclaimed Water Sales	4102	1,711,156	2,055,000	1,805,000	1,974,000	2,024,000
Other	Various	264,441	78,000	107,000	80,000	80,000
Total Revenue		<u>19,479,045</u>	<u>19,643,000</u>	<u>19,812,000</u>	<u>20,008,000</u>	<u>20,112,000</u>
<b>OPERATING EXPENSES</b>						
Collection & Conveyance	3010000	1,896,688	2,256,000	1,918,000	2,310,000	2,466,000
Lift Stations	3020000	294,520	310,000	232,000	293,000	321,000
Source Control	3060000	160,789	178,000	164,000	190,000	204,000
Encina Disposal	3070000	2,529,715	2,870,000	2,759,000	2,777,000	2,860,000
Meadowlark Plant	3410000	2,993,914	3,474,000	2,986,000	3,396,000	3,482,000
Customer Accounts	4010000	394,365	458,000	368,000	469,000	493,000
Equipment & Vehicles	4210000	185,498	229,000	204,000	241,000	235,000
Buildings & Grounds	4110000	229,039	257,000	237,000	260,000	277,000
Engineering	5010000	569,291	710,000	550,000	681,000	647,000
Safety & Compliance	5210000	158,939	189,000	167,000	203,000	212,000
Information Technology	6230000	592,553	831,000	741,000	845,000	887,000
General & Admin.	6xxx000	1,341,681	1,455,000	1,270,000	1,452,000	1,624,000
Total Expense		<u>11,346,992</u>	<u>13,217,000</u>	<u>11,596,000</u>	<u>13,117,000</u>	<u>13,708,000</u>
OPERATING INCOME		<u>8,132,053</u>	<u>6,426,000</u>	<u>8,216,000</u>	<u>6,891,000</u>	<u>6,404,000</u>
LESS: TRANSFERS TO REPLACEMENT RESERVE		<u>8,132,053</u>	<u>6,426,000</u>	<u>8,216,000</u>	<u>6,891,000</u>	<u>6,404,000</u>
NET INCOME		<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>



**VALLECITOS WATER DISTRICT**

**WASTEWATER OPERATIONS BUDGET FOR THE YEAR ENDING JUNE 30, 2019**

		<u>Actual FY 16-17</u>	<u>Budget FY 17-18</u>	<u>Projected FY 17-18</u>	<u>Budget FY 18-19</u>	<u>Estimated FY 19-20</u>
<b>COLLECTION/CONVEYANCE</b>						
Cost of Labor	3010xxx.51xx	\$ 1,422,004	\$ 1,517,000	\$ 1,367,000	\$ 1,566,000	\$ 1,703,000
Materials & Supplies	" .53xx	92,870	120,000	93,000	154,000	158,000
Chemicals	" .5350	241,625	300,000	289,000	350,000	359,000
Outside Services/Power	" .5xxx	140,189	319,000	169,000	240,000	246,000
Total Collection/Conveyance		<u>1,896,688</u>	<u>2,256,000</u>	<u>1,918,000</u>	<u>2,310,000</u>	<u>2,466,000</u>
<b>LIFT STATIONS</b>						
Cost of Labor	3020xxx.51xx	157,923	187,000	120,000	168,000	193,000
Materials & Supplies	" .53xx	19,586	45,000	29,000	40,000	41,000
Outside Services	" .54xx	66,053	28,000	33,000	30,000	31,000
Power	" .5306	50,958	50,000	50,000	55,000	56,000
Total Lift Stations		<u>294,520</u>	<u>310,000</u>	<u>232,000</u>	<u>293,000</u>	<u>321,000</u>
<b>SOURCE CONTROL</b>						
Cost of Labor	3060000.51xx	146,018	153,000	145,000	164,000	177,000
Materials & Supplies	" .53xx	14,771	21,000	15,000	22,000	23,000
Outside Services	" .54xx	-	4,000	4,000	4,000	4,000
Total Industrial Waste		<u>160,789</u>	<u>178,000</u>	<u>164,000</u>	<u>190,000</u>	<u>204,000</u>
ENCINA DISPOSAL	3070000.551	<u>2,529,715</u>	<u>2,870,000</u>	<u>2,759,000</u>	<u>2,777,000</u>	<u>2,860,000</u>
<b>MEADOWLARK LIFT STATION</b>						
Cost of Labor	3710000.51xx	76,523	102,000	87,000	105,000	118,000
Materials & Supplies	" .53xx	8,289	60,000	38,000	45,000	46,000
Chemicals	" .5350	101,791	150,000	114,000	150,000	154,000
Outside Services	" .54xx	31,741	117,000	56,000	55,000	56,000
Power	" .5306	89,791	105,000	92,000	110,000	113,000
Total Lift Sta.		<u>308,135</u>	<u>534,000</u>	<u>387,000</u>	<u>465,000</u>	<u>487,000</u>

**VALLECITOS WATER DISTRICT**

**WASTEWATER OPERATIONS BUDGET FOR THE YEAR ENDING JUNE 30, 2019**

		Actual FY 16-17	Budget FY 17-18	Projected FY 17-18	Budget FY 18-19	Estimated FY 19-20
<b>MEADOWLARK PLANT</b>						
Cost of Labor	3410000.51xx	\$ 981,193	\$ 1,009,000	\$ 912,000	\$ 1,023,000	\$ 1,154,000
Materials & Supplies	" .53xx	369,359	375,000	355,000	437,000	375,000
Chemicals	" .5350	468,966	385,000	327,000	350,000	359,000
Outside Services	" .54xx	233,051	474,000	392,000	417,000	375,000
Power	" .5306	413,397	435,000	355,000	435,000	448,000
Telephone	" .5305	117	2,000	2,000	2,000	2,000
Total Meadowlark		<u>2,466,083</u>	<u>2,680,000</u>	<u>2,343,000</u>	<u>2,664,000</u>	<u>2,713,000</u>
<b>MAHR RESERVOIR</b>						
Cost of Labor	3810000.51xx	65,759	96,000	77,000	84,000	95,000
Materials & Supplies	" .53xx	15,196	10,000	36,000	21,000	22,000
Chemicals	" .5350	23,292	30,000	33,000	30,000	29,000
Outside Services	" .54xx	58,446	64,000	57,000	67,000	69,000
Power	" .5306	57,003	60,000	53,000	65,000	67,000
Total Mahr Reservoir		<u>219,696</u>	<u>260,000</u>	<u>256,000</u>	<u>267,000</u>	<u>282,000</u>
<b>CUSTOMER ACCOUNTS</b>						
Cost of Labor	4010000.51xx	303,605	364,000	273,000	334,000	367,000
Materials & Supplies	" .53xx	45,344	52,000	61,000	79,000	81,000
Outside Services	" .54xx	31,564	27,000	21,000	41,000	30,000
Uncollectible Accts.	" .5703	13,852	15,000	13,000	15,000	15,000
Total Cust. Accts.		<u>394,365</u>	<u>458,000</u>	<u>368,000</u>	<u>469,000</u>	<u>493,000</u>
<b>EQUIPMENT &amp; VEHICLES</b>						
Cost of Labor	4210000.51xx	106,020	107,000	112,000	124,000	130,000
Materials & Supplies	" .53xx	30,890	50,000	21,000	50,000	51,000
Fuel	" .5307	32,517	47,000	29,000	42,000	43,000
Outside Services	" .54xx	16,071	25,000	42,000	25,000	11,000
Total Equip. & Veh.		<u>185,498</u>	<u>229,000</u>	<u>204,000</u>	<u>241,000</u>	<u>235,000</u>
<b>BUILDINGS &amp; GROUNDS</b>						
Cost of Labor	4110000.51xx	59,918	98,000	55,000	77,000	89,000
Materials & Supplies	" .53xx	15,152	43,000	23,000	53,000	54,000
Outside Services	" .54xx	62,048	61,000	53,000	75,000	77,000
Power	" .5306	91,921	55,000	106,000	55,000	57,000
Total Buildings & Grounds		<u>229,039</u>	<u>257,000</u>	<u>237,000</u>	<u>260,000</u>	<u>277,000</u>
<b>ENGINEERING</b>						
Cost of Labor	5010000.51xx	560,599	612,000	543,000	588,000	620,000
Materials & Supplies	" .53xx	3,846	18,000	1,000	14,000	14,000
Outside Services	" .54xx	4,846	80,000	6,000	79,000	13,000
Total Engineering		<u>569,291</u>	<u>710,000</u>	<u>550,000</u>	<u>681,000</u>	<u>647,000</u>

**VALLECITOS WATER DISTRICT**

**WASTEWATER OPERATIONS BUDGET FOR THE YEAR ENDING JUNE 30, 2019**

		<u>Actual</u>	<u>Budget</u>	<u>Projected</u>	<u>Budget</u>	<u>Estimated</u>
		<u>FY 16-17</u>	<u>FY 17-18</u>	<u>FY 17-18</u>	<u>FY 18-19</u>	<u>FY 19-20</u>
<b>SAFETY &amp; REGULATORY AFFAIRS</b>						
Cost of Labor	5210000.51xx	\$ 150,064	\$ 163,000	\$ 149,000	\$ 176,000	\$ 185,000
Materials & Supplies	" .53xx	266	13,000	5,000	12,000	12,000
Safety Support	" .54xx	8,609	13,000	13,000	15,000	15,000
Total Safety/Reg Affairs		<u>158,939</u>	<u>189,000</u>	<u>167,000</u>	<u>203,000</u>	<u>212,000</u>
<b>INFORMATION TECH</b>						
Cost of Labor	6230000.51xx	296,379	371,000	243,000	366,000	396,000
Materials & Supplies	" .53xx	75,747	137,000	184,000	58,000	59,000
Outside Services	" .54xx	220,427	323,000	314,000	421,000	432,000
Total Information Tech		<u>592,553</u>	<u>831,000</u>	<u>741,000</u>	<u>845,000</u>	<u>887,000</u>
<b>GENERAL &amp; ADMINISTRATION</b>						
Cost of Labor	6xxxxxx.51xx	1,480,649	1,498,000	1,252,000	1,445,000	1,614,000
Directors Fees	" .5101	42,899	58,000	55,000	58,000	59,000
District Insurance	" .5201	132,552	157,000	138,000	148,000	166,000
Travel	" .5202	-	1,000	1,000	1,000	1,000
Meetings & Seminars	" .5203	50	10,000	1,000	9,000	9,000
Dues & Subscriptions	" .5204	16,155	39,000	43,000	41,000	42,000
Office Supplies	" .5301	12,427	11,000	9,000	11,000	11,000
Postage	" .5304	4,528	6,000	2,000	6,000	6,000
Outside Services	" .5401	14,730	40,000	5,000	65,000	67,000
Legal	" .5402	111,829	142,000	99,000	142,000	153,000
Auditing	" .5403	15,477	17,000	14,000	12,000	14,000
Bank/Investment Svcs	" .5501	16,708	16,000	18,000	33,000	34,000
Regulatory Fees	" .5502	-	3,000	3,000	3,000	3,000
Other	" .5702	(7,592)	5,000	5,000	5,000	5,000
Admin Credit Trans	4702	(498,731)	(548,000)	(375,000)	(527,000)	(560,000)
Total Gen. & Admin.		<u>1,341,681</u>	<u>1,455,000</u>	<u>1,270,000</u>	<u>1,452,000</u>	<u>1,624,000</u>
<b>TOTAL EXPENSES</b>		<u>\$ 11,346,992</u>	<u>\$ 13,217,000</u>	<u>\$ 11,596,000</u>	<u>\$ 13,117,000</u>	<u>\$ 13,708,000</u>

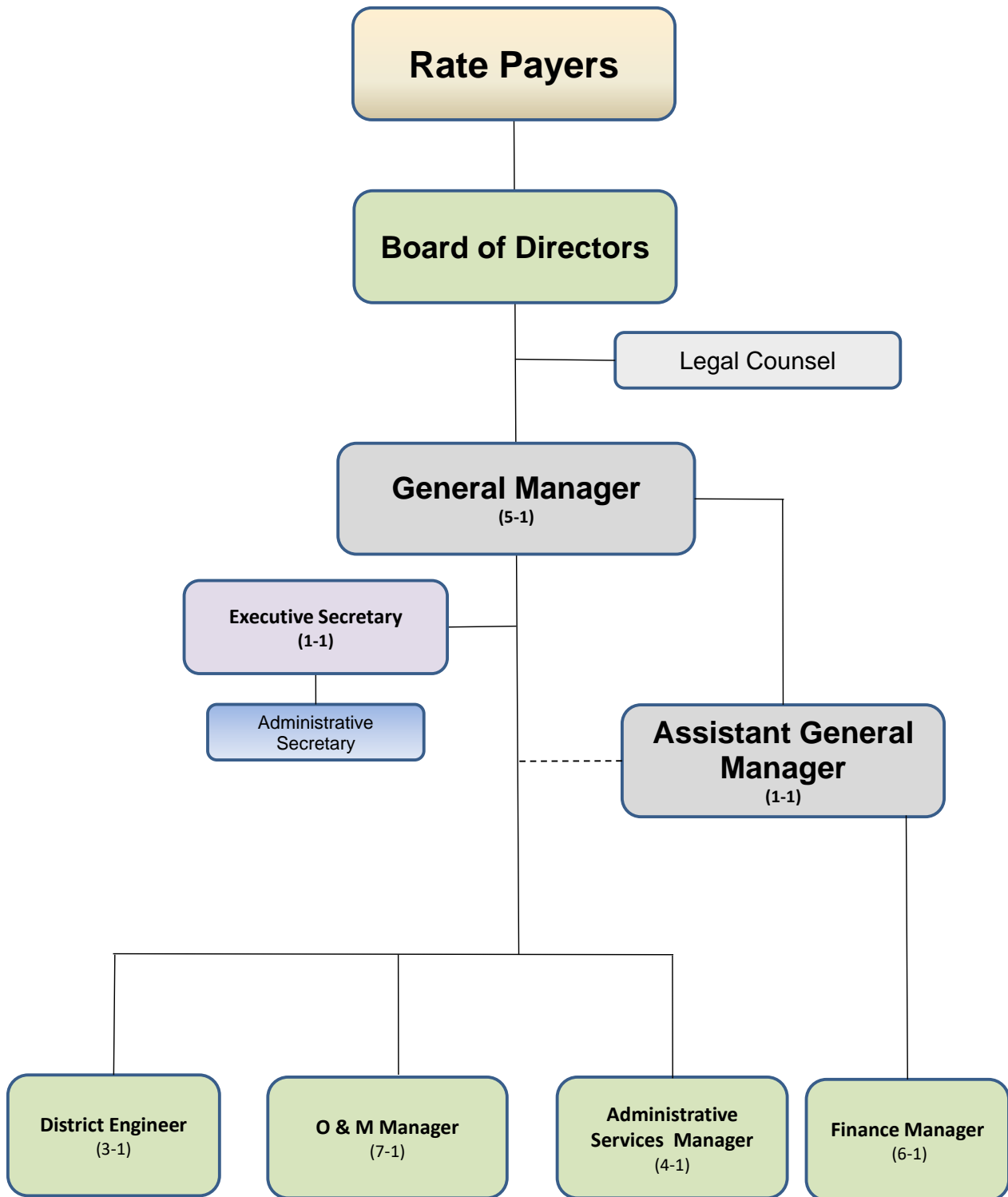
**VALLECITOS WATER DISTRICT**

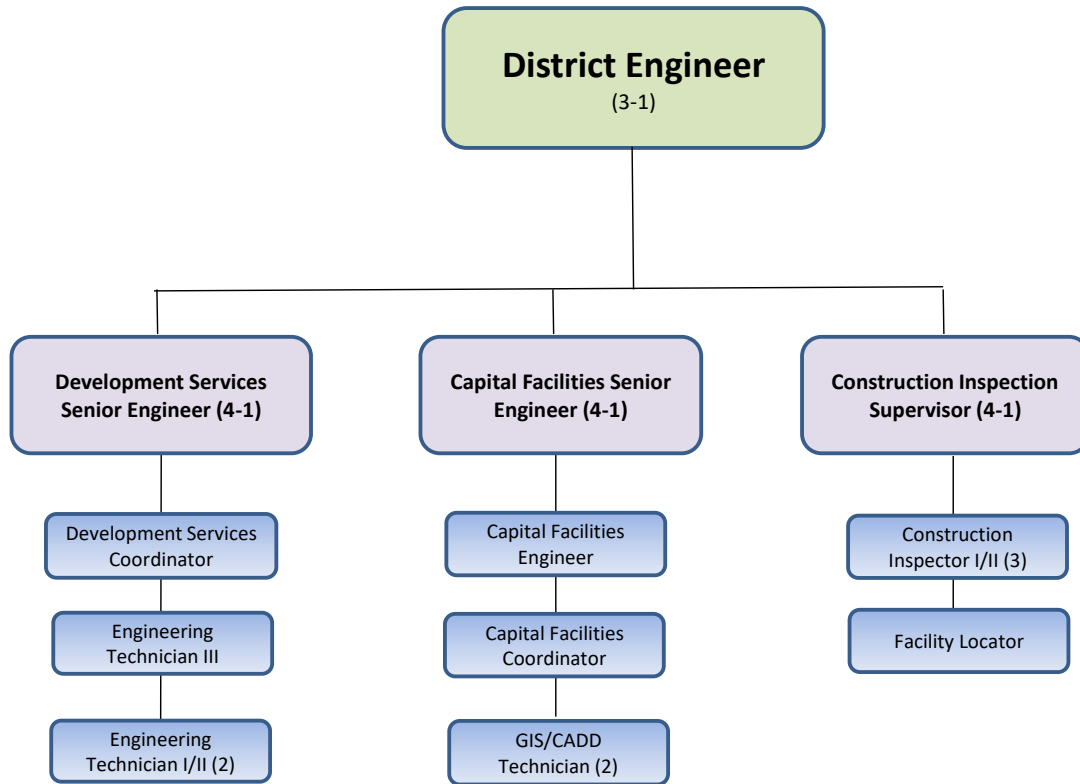
**BUDGET FOR THE YEAR ENDING JUNE 30, 2019**

**SALARY AND BENEFIT RECAP**

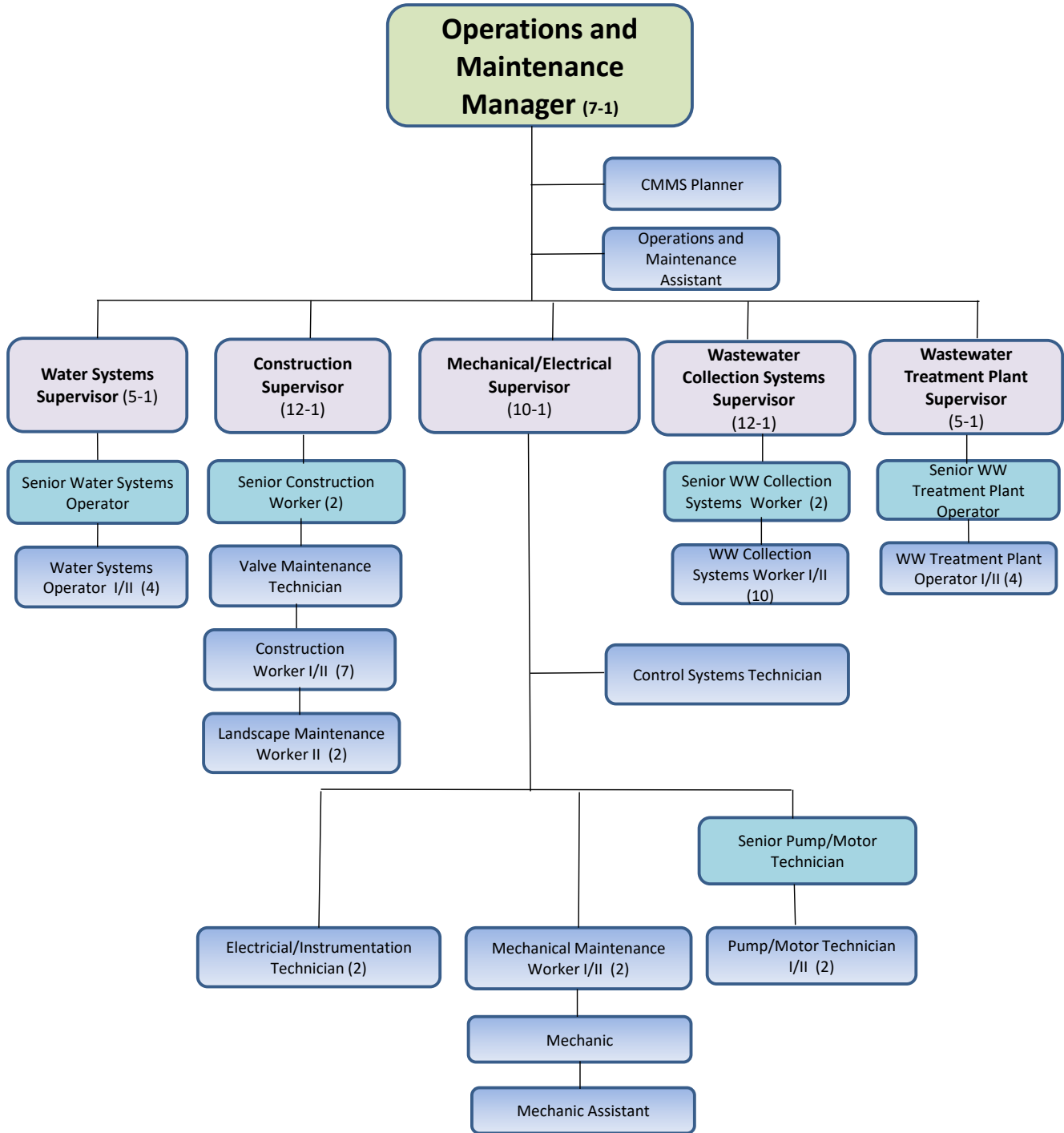
	Actual FY 16-17	Budget FY 17-18	Projected FY 17-18	Budget FY 18-19	Estimated FY 19-20
<b>SALARIES</b>					
Water Operations	\$ 5,268,737	\$ 5,117,000	\$ 4,977,000	\$ 5,255,000	\$ 5,554,000
Wastewater Operations	3,551,900	3,783,000	3,255,000	3,786,000	4,050,000
Subtotal	8,820,637	8,900,000	8,232,000	9,041,000	9,604,000
Labor Posted to Work Orders*	617,221	772,000	699,000	667,000	699,000
<b>TOTAL SALARIES</b>	<u>9,437,858</u>	<u>9,672,000</u>	<u>8,931,000</u>	<u>9,708,000</u>	<u>10,303,000</u>
<b>BENEFITS</b>					
Public Employee Retirement	2,197,716	2,097,000	1,918,000	2,113,000	2,718,596
Group Insurance	2,273,265	2,677,000	2,392,000	2,603,000	2,738,000
Social Security	705,577	740,000	656,000	743,000	788,000
Workers' Comp Insurance	200,055	218,000	165,000	212,000	232,000
457 Contribution Match	173,938	108,000	104,000	108,000	108,000
Other Taxes and Benefits	30,154	28,000	26,000	32,000	35,000
<b>TOTAL BENEFITS</b>	<u>5,580,705</u>	<u>5,868,000</u>	<u>5,261,000</u>	<u>5,811,000</u>	<u>6,619,596</u>
<b>TOTAL SALARIES &amp; BENEFITS</b>	<u>\$ 15,018,563</u>	<u>\$ 15,540,000</u>	<u>\$ 14,192,000</u>	<u>\$ 15,519,000</u>	<u>\$ 16,922,596</u>
Benefits as a Percentage of Salaries	<u>59.1%</u>	<u>60.7%</u>	<u>58.9%</u>	<u>59.9%</u>	<u>64.2%</u>
Operations	52.00	52.00	49.00	52.00	52.00
Engineering	16.00	16.00	16.00	16.00	16.00
Finance	22.75	23.00	23.00	23.00	23.00
Administration	16.75	16.75	15.75	16.75	16.75
Total Funded FTEs	<u>107.50</u>	<u>107.75</u>	<u>103.75</u>	<u>107.75</u>	<u>107.75</u>

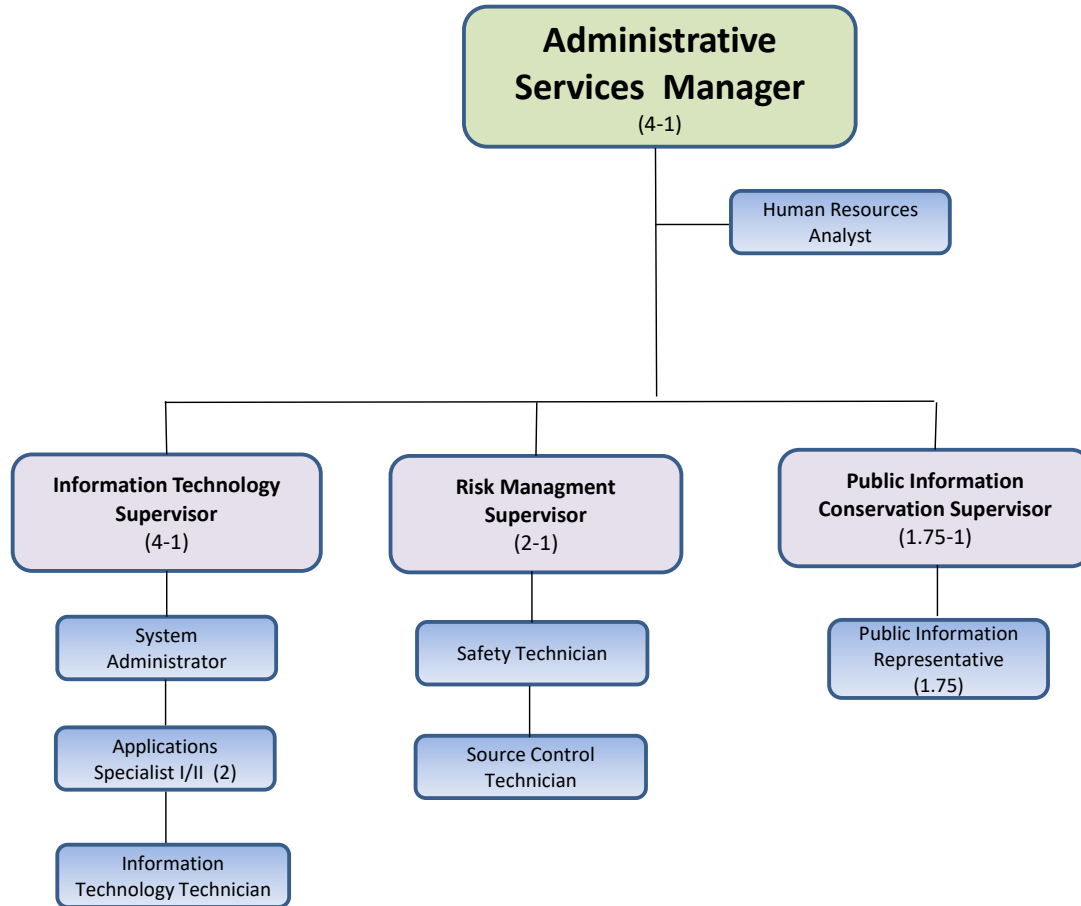
\* There is also a labor overhead charge to work orders to cover benefit costs which are a part the credit in the General and Administration sections of Water and Wastewater operations.

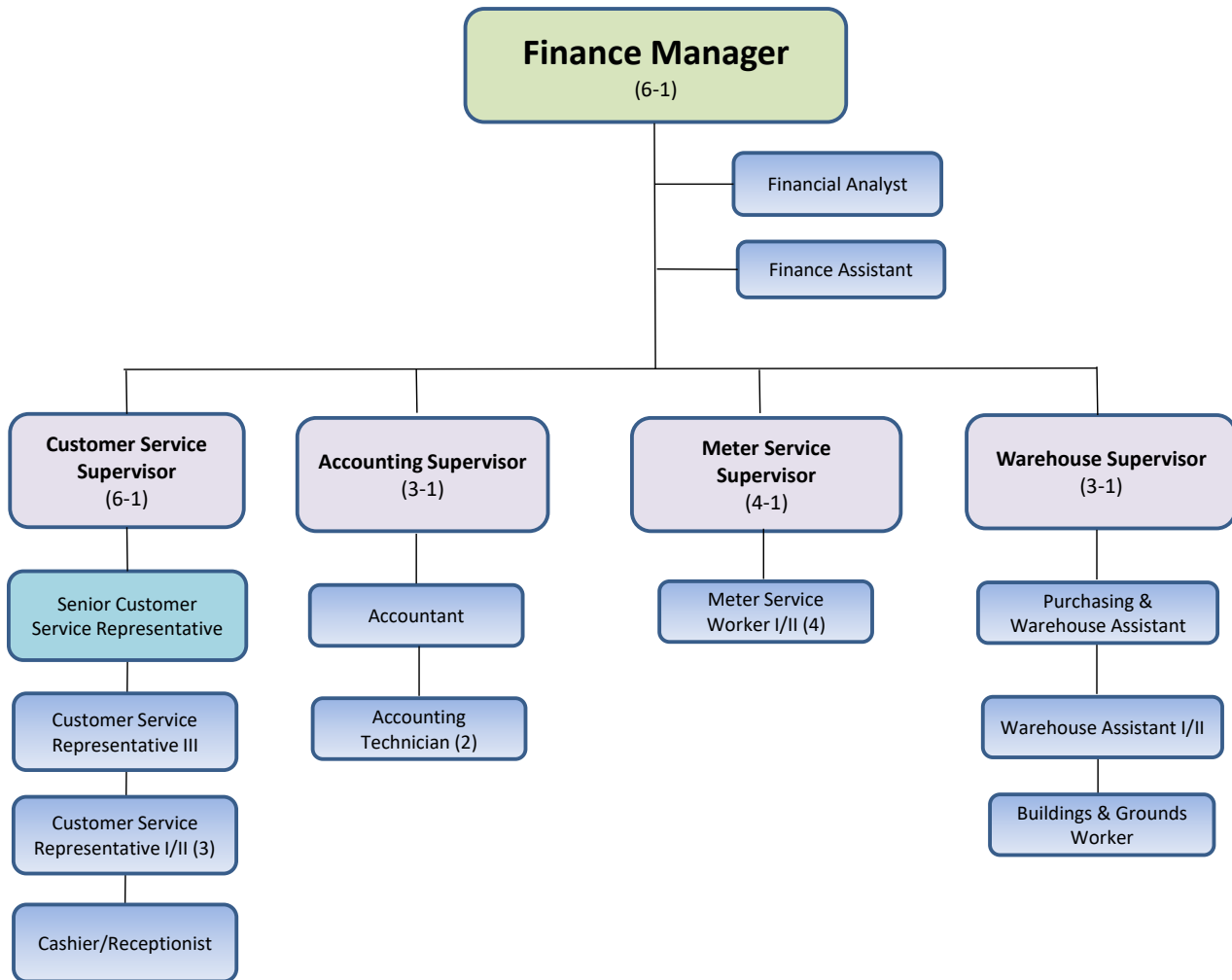












## **VALLECITOS WATER DISTRICT**

---

### **2018-19 PERSONNEL BUDGET**

#### **POSITIONS/PERSONNEL:**

Management will scrutinize the need for all positions and only fill positions if absolutely necessary. The fiscal year 2018-19 budget includes: one reclassification as outlined below.

#### **RECLASSIFICATIONS:**

Engineering Aide to Engineering Technician I - Estimated Additional Annual Cost: \$0

This position's job description was updated to better reflect the duties performed by the incumbent. There is no additional annual cost since both classifications are at the same pay range and the employee's pay is not changing.

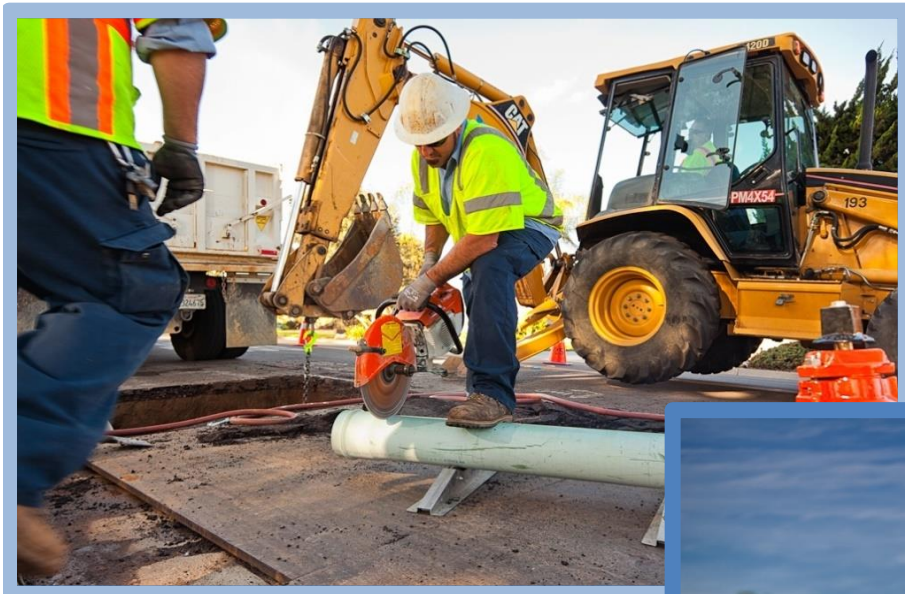
# VALLECITOS WATER DISTRICT

## 2018-19 PUBLIC AWARENESS AND CONSERVATION PROGRAM BUDGET

<b><u>REBATE PROGRAMS *</u></b>	Prj 2019100025	W/O 117447	
To encourage the purchase of qualified low flow devices, appliances, artificial turf or rebates to customers who remove their existing turf grass and install a low-water landscape (i.e., Cash for Grass program.)			\$ 1,000
<b><u>OUTREACH &amp; ADVERTISING</u></b>	Prj 2019100026	W/O 117448	
For purchase of items and services used to assist customers in becoming better informed about water related issues. Includes but not limited to: purchase of videos, books, displays and promotional items; advertising; cost to participate in community events; employee education; and to provide tours of District facilities. Includes cost to produce and mail newsletters, consumer confidence report, brochures, bill inserts, special hearing notifications, and others as needed.			52,000
<b><u>VIDEO PRODUCTION</u></b>	Prj 2019100027	W/O 123555	
Cost to hire outside production company to produce videos highlighting the District or for internal staff to purchase supplies and services to create videos. Videos to be shown during tours of the District, speaking engagements, on the VWD website and/or on social media.			5,200
<b><u>EDUCATION</u></b>	Prj 2019100028	W/O 117451	
For continued development and purchase of materials designed to promote and implement K-12 education programs. This includes the Splash Science Mobile Lab visits to area elementary schools and payment for bus transportation to Jack's Pond Park and Heritage Park to listen to educational water history information by District staff. Also includes bus transportation for school tours of the District. Includes materials and costs to participate in annual Water Awareness Campaign (4th grade calendar/poster contest), such as the purchase of calendars, entry forms, prizes for entrants and poster contest winners. Also includes participation in Palomar College GEAR UP program.			7,600
<b><u>COOPERATIVE PROGRAMS*</u></b>	Prj 2019100029	W/O 117452	
For participation in cost-sharing programs such as residential surveys; large property audits, which are outsourced due to extensive staff time that would be required; customer service surveys; and supplies such as dye tablets, showerheads and moisture probes.			4,000
<b><u>WATERWISE LANDSCAPE</u></b>	Prj 2019100030	W/O 117453	
To promote low water use landscape and irrigation practices. Includes the cost for sponsoring, maintaining and upgrading water-wise demonstration gardens**, landscape irrigation/plant selection workshops, signage and promotion of demonstration gardens, waterwise plant promotions, and purchase of waterwise landscape brochures and publication reprints. ** Demonstration gardens include: Sustainable Demonstration Garden at VWD Administration building, Heritage Park native plant garden and Jack's Pond Park native plant garden.			5,500
<b><u>MEMBERSHIPS &amp; EQUIPMENT</u></b>	Prj 2019100031	W/O 117454	
To maintain memberships in related organizations and committees and for the purchases of new or replacement equipment.			2,500
<b><u>COMMERCIAL/INDUSTRIAL</u></b>	Prj 2019100032	W/O 117455	
To assist large commercial and public agency customers by providing workshops, written materials, monetary incentives, and using outside consultants.			1,200
<b>TOTAL PUBLIC AWARENESS/CONSERVATION PROGRAM BUDGET</b>			<b>\$ 79,000</b>

\* Uncertainty in the funding from the Metropolitan Water District may adversely impact the availability of programs.

## 2018-19 CAPITAL BUDGET





**VALLECITOS WATER DISTRICT**

**Comprehensive Project List**

Page Number	Project Number	Project Title	Funding Source	Previous Budget & Amendments	Estimated Amt Expended @ 6/30/18	Fiscal Year 2018-19	
						Carryforward	New Request
<b>Carryover Projects</b>							
36	90001	Encina Parallel Land Outfall	220	\$ 31,000,000	\$ 150,000	\$ 30,850,000	\$ 13,730,000
37	71004	San Marcos Interceptor	210 & 220	19,700,000	13,720,000	5,980,000	200,000
38	2013100001	Coronado Hills Tank #2	120	6,000,000	-	6,000,000	-
39	2016100003	Montiel Gravity Outfall	210 & 220	4,725,000	243,000	4,482,000	-
40	2016100002	Chlorine Contact Tank Expansion	220	4,815,000	64,000	4,751,000	(96,000)
41	71084	Meadowlark Tank No. 3	120	4,552,000	490,000	4,062,000	-
42	90007	City of San Marcos Joint Projects	110 & 210	750,000	260,000	490,000	3,258,000
43	71219	Mountain Belle Pump Station	120	3,860,000	100,000	3,760,000	-
44	90003	Rock Springs Sewer Replacement	210 & 220	3,165,000	640,000	2,525,000	225,000
45	2018100001	Encina Wastewater Authority FY 17/18	210 & 220	3,236,000	2,409,000	827,000	-
46	2017100002	MRF: Conversion to Sodium Hypochlorite	210	2,000,000	-	2,000,000	-
47	2018100002	Elser Lane Water Line Improvements	110	1,765,000	-	1,765,000	-
48	2012100002	Richland Invert Replacement	210	1,485,000	15,000	1,470,000	-
49	71177	Land Outfall Clearing & Access Road	210	1,150,000	360,000	790,000	-
50	2014100003	Water and Sewer Master Plan	120 & 220	1,050,000	1,075,000	(25,000)	75,000
51	80001	Old Questhaven Sewer Replacement	210 & 220	835,000	1,000	834,000	-
52	2016100005	Expansion of the Men's Locker Room in Building B	110 & 210	810,000	210,000	600,000	(40,000)
53	2015100002	Audiovisual Upgrade	110 & 210	750,000	455,000	295,000	-
54	2016100004	District-wide Valve Replacement Program	110	700,000	460,000	240,000	-
55	2013100006	High Point Pipeline	120	700,000	-	700,000	-
56	2014100002	NW Lake San Marcos Sewer Replacement and Lining	210	605,000	2,500	602,500	-
57	2014100004	Asset Management Replacement Schedule	110 & 210	600,000	13,000	587,000	-
58	2018100003	Schoolhouse Tank Refurbishment	110	675,000	25,000	650,000	(85,000)
59	2018100005	Stargaze Court and River Run Circle Water Line Rehabilitation	110	482,000	80,000	402,000	-
60	71126	Vulnerability Assessment Improvements	110 & 210	447,700	50,000	397,700	-
61	2018100004	Las Posas 10-inch Water Main Replacement	110	580,000	-	580,000	(160,000)
62	2018100006	Palos Vista Pump Station - Generator	110	325,000	66,000	259,000	-
63	2016100007	Rock Springs Valve Replacement	110	265,000	5,000	260,000	35,000
64	2018100007	Solar Panel Inverter Replacement	110 & 210	295,000	10,000	285,000	-
65	2017100005	Fire Services - Backflow Preventer Upgrades	110	250,000	40,000	210,000	-
66	2016100014	Via Vera Cruz Tank Hill Stabilization	110	145,000	62,000	83,000	75,000
67	2018100009	MRF - Replace the Influent Pumps & Motors	210	195,000	65,000	130,000	-
68	2018100011	MRF - Tertiary Influent Chamber Repairs	250	115,000	-	115,000	50,000
69	2016100008	Palos Vista Pump Station - Motor Replacement	110	118,000	84,000	34,000	-
70	2018100014	Replace Roofs on Equipment Storages	110 & 210	77,000	-	77,000	-
71	2018100016	Building A Kitchens	110 & 210	65,000	-	65,000	-
72	2017100009	Building B Laminate Floor Replacement	110 & 210	40,000	-	40,000	-
73	2017100016	HVAC Pump and Motor Replacement	110 & 210	20,000	17,000	3,000	-
				<b>\$ 98,347,700</b>	<b>\$ 21,171,500</b>	<b>\$ 77,176,200</b>	<b>\$ 17,267,000</b>
<b>New Projects</b>							
74	2019100001	Encina Wastewater Authority Five Year Plan	210 & 220	-	-	-	23,576,000
75	2019100002	MRF - Biological Selector Improvements	250	-	-	-	1,666,000
76	2019100003	North Twin Oaks Tank No. 1 Refurbishment	110	-	-	-	425,000
77	2019100004	OSHA Compliant Ladder Climb Safety Systems	110	-	-	-	200,000
78	2019100005	Sewer Rehabilitation and Repairs 2019	210	-	-	-	188,000
79	2019100006	Sewer Bypass Repair	210	-	-	-	142,000
80	2019100007	Sewer Replacement and I&I Repairs	210	-	-	-	100,000
81	2019100008	Effluent & Backwash Sluice Gate	250	-	-	-	80,000
82	2019100009	Vallecitos 9 Turnout Pipeline Repair	110	-	-	-	70,000
83	2019100010	Mountain Belle Tank - Chlorine Injection System	110	-	-	-	65,000
84	2019100011	Ultrasonic Algae Control System	250	-	-	-	65,000
85	2019100012	Door Access Control System Expansion	110 & 210	-	-	-	20,000
86	2019100013	HVAC System Upgrade	110 & 210	-	-	-	20,000
87	2019100014	Cooling Tower Media Replacement	110 & 210	-	-	-	12,000
88	TBA	Future Projects		-	-	-	22,853,000
				<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 49,482,000</b>
				<b>\$ 98,347,700</b>	<b>\$ 21,171,500</b>	<b>\$ 77,176,200</b>	<b>\$ 66,749,000</b>
						<b>\$143,925,200</b>	

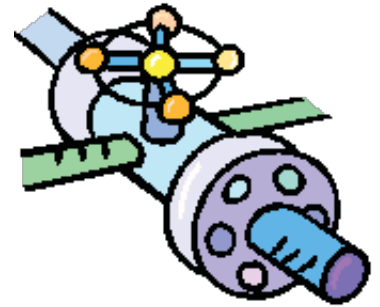
**VALLECITOS WATER DISTRICT**

**Comprehensive Project List**

Project Total	Spending by Fiscal Year						Page Number
	2018-19	2019-20	2020-21	2021-22	2022-23	2023 to 2027	
\$ 44,730,000	\$ 270,000	\$ 1,120,000	\$ 6,000,000	\$ 5,000,000	\$ -	\$ 32,190,000	36
19,900,000	1,580,000	4,600,000	-	-	-	-	37
6,000,000	-	-	-	-	6,000,000	-	38
4,725,000	402,000	3,315,000	765,000	-	-	-	39
4,719,000	1,000	1,000	1,000	1,000	4,651,000	-	40
4,552,000	-	3,132,000	930,000	-	-	-	41
4,008,000	70,000	647,000	912,000	2,119,000	-	-	42
3,860,000	-	-	-	-	-	3,760,000	43
3,390,000	2,750,000	-	-	-	-	-	44
3,236,000	827,000	-	-	-	-	-	45
2,000,000	50,000	950,000	1,000,000	-	-	-	46
1,765,000	15,000	65,000	410,000	1,275,000	-	-	47
1,485,000	85,000	225,000	1,160,000	-	-	-	48
1,150,000	790,000	-	-	-	-	-	49
1,125,000	50,000	-	-	-	-	-	50
835,000	-	-	-	-	34,000	800,000	51
770,000	560,000	-	-	-	-	-	52
750,000	295,000	-	-	-	-	-	53
700,000	120,000	120,000	-	-	-	-	54
700,000	-	700,000	-	-	-	-	55
605,000	27,500	475,000	100,000	-	-	-	56
600,000	292,000	150,000	145,000	-	-	-	57
590,000	565,000	-	-	-	-	-	58
482,000	402,000	-	-	-	-	-	59
447,700	397,700	-	-	-	-	-	60
420,000	5,000	415,000	-	-	-	-	61
325,000	259,000	-	-	-	-	-	62
300,000	75,000	220,000	-	-	-	-	63
295,000	285,000	-	-	-	-	-	64
250,000	50,000	55,000	55,000	50,000	-	-	65
220,000	158,000	-	-	-	-	-	66
195,000	65,000	65,000	-	-	-	-	67
165,000	165,000	-	-	-	-	-	68
118,000	34,000	-	-	-	-	-	69
77,000	77,000	-	\$ -	\$ -	\$ -	\$ -	70
65,000	65,000	-	-	-	-	-	71
40,000	40,000	-	-	-	-	-	72
20,000	3,000	-	-	-	-	-	73
<b>\$ 115,614,700</b>	<b>\$ 10,830,200</b>	<b>\$ 16,255,000</b>	<b>\$ 11,478,000</b>	<b>\$ 8,445,000</b>	<b>\$ 10,685,000</b>	<b>\$ 36,750,000</b>	
23,576,000	4,795,000	5,438,000	4,558,000	3,721,000	5,064,000	-	74
1,666,000	66,000	520,000	1,080,000	-	-	-	75
425,000	425,000	-	-	-	-	-	76
200,000	200,000	-	-	-	-	-	77
188,000	188,000	-	-	-	-	-	78
142,000	142,000	-	-	-	-	-	79
100,000	100,000	-	-	-	-	-	80
80,000	80,000	-	-	-	-	-	81
70,000	70,000	-	-	-	-	-	82
65,000	65,000	-	-	-	-	-	83
65,000	65,000	-	-	-	-	-	84
20,000	20,000	-	-	-	-	-	85
20,000	20,000	-	-	-	-	-	86
12,000	12,000	-	-	-	-	-	87
22,853,000	-	1,710,000	1,348,000	1,975,000	980,000	16,840,000	88
<b>\$ 49,482,000</b>	<b>\$ 6,248,000</b>	<b>\$ 7,668,000</b>	<b>\$ 6,986,000</b>	<b>\$ 5,696,000</b>	<b>\$ 6,044,000</b>	<b>\$ 16,840,000</b>	
<b>\$ 165,096,700</b>	<b>\$ 17,078,200</b>	<b>\$ 23,923,000</b>	<b>\$ 18,464,000</b>	<b>\$ 14,141,000</b>	<b>\$ 16,729,000</b>	<b>\$ 53,590,000</b>	

## Capital Improvement Program Encina Parallel Land Outfall

**Description:** This project calls for the installation of approximately 34,000 feet of new outfall pipeline from Lift Station No. 1 to the Encina Water Pollution Control Facility. The pipeline will either parallel the existing sewer interceptor or it will replace certain undersized segments.



**Project Manager:** James Gumpel

**Department:** Engineering

**Project:** 90001

**Funding Source:** 100% Fund 220 – Sewer Capacity

**Comments:** This project will increase the District’s sewer handling capacity by allowing more wastewater flow to the Encina Water Pollution Control Facility. The District will work with other interested agencies (City of Carlsbad, Buena Sanitation District & City of Vista) when possible in pursuit of cost-sharing alternatives.

**Operations Impact:** Increased sewerage handling capacity and additional flexibility & redundancy in outfall system during average and low flow periods. Annual, routine sewer pipeline maintenance is expected with the completion of this project.

### Project Spending Plan

Project Phase	Previous Spending	FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23 & Thereafter	Total
Planning	\$150,000	\$170,000					\$320,000
Design		\$100,000	\$1,120,000			\$2,930,000	\$4,150,000
Construction				\$6,000,000	\$5,000,000	\$29,260,000	\$40,260,000
<b>Total</b>	\$150,000	\$270,000	\$1,120,000	\$6,000,000	\$5,000,000	\$32,190,000	<b>\$44,730,000</b>

**FY 2018/19 Budget Request - \$13,730,000**

### Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2008	Jan 2009	Dec 2018	Jan 2019	Jun 2038	Jan 2021	Jun 2040	Jun 2040

## Capital Improvement Program San Marcos Interceptor

**Description:** The project consists of three separate phases constructing approximately 9,000 LF of 36" sewer interceptor replacing an existing 21" sewer line. The existing line is prone to groundwater inflow and infiltration (I&I) and at risk for failure. The sewer interceptor runs along San Marcos Creek from north of the 78 FWY past McMahr Road. The project includes open cut and tunnel section as well as right of way acquisition.



**Project Manager:** James Gumpel

**Department:** Engineering

**Project:** 71004

**Funding Source:** 31% Fund 210 – Sewer Replacement  
69% Fund 220 – Sewer Capacity

**Comments:** This project is identified in the 2002 Master Plan. The reduction of I&I will help extend the life of the sewer system downstream of the San Marcos interceptor and reduce unnecessary treatment of groundwater at Encina and Meadowlark. The new line will also reduce the likelihood of spills within San Marcos Creek. Design and land acquisition will move forward in FY 13/14 for the last phase between Via Vera Cruz and Pacific Street in order to be consistent with the future road within the Creek District. The City of San Marcos will reimburse VWD for approximately \$95,000 in design costs for the last phase of this project. The last phase will also include a construction cost reimbursement from the City which is estimated at \$250,000. The construction cost reimbursement will be finalized after actual bid prices are received for the project.

**Operations Impact:** Minimal impact is anticipated as this project increases the size of an existing sewer line and does not add significant lineal footage of sewer for maintenance.

### Project Spending Plan

Project Phase	Previous Spending	FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23 & Thereafter	Total
Planning	\$800,000	\$130,000					\$930,000
Design	\$2,720,000	\$250,000					\$2,970,000
Construction	\$10,200,000	\$1,200,000	\$4,600,000				\$16,000,000
<b>Total</b>	<b>\$13,720,000</b>	<b>\$1,580,000</b>	<b>\$4,600,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$19,900,000</b>

**FY 2018/19 Budget Request - \$200,000**

### Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 1996	Jul 1996	Jun 2007	Jul 1998	Feb 2019	Apr 2019	Feb 2020	Feb 2020

## Capital Improvement Program Coronado Hills Tank #2

**Description:** Build-out demands for the 1530, 1115 and 1320 pressure zones are projected to require a storage volume of 9.63 million gallons over and above existing storage capacity. This project will add 4.73 million gallons of potable water storage to meet the projected near-term total storage deficits in the 1530 and neighboring pressure zones. This reservoir will be constructed on the same site as the existing Coronado Hills Tank.



**Project Manager:** Jason Hubbard

**Department:** Engineering

**Project:** 2013100001

**Funding Source:** 100% Fund 120 – Water Capacity

**Comments:** The existing Coronado Hills Tank resides on a large, flat parcel that can accommodate additional storage reservoirs with little grading and preparation efforts. The ultimate plan is to locate a total of 3 tanks at this site, with a Coronado Hills #3 tank sized for 3.21 million gallons being constructed around 2030. The Master Plan has identified this as Project R-3.

**Operations Impact:** The project will add 4.73 million gallons of potable water storage to the service system.

### Project Spending Plan

Project Phase	Previous Spending	FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23 & Thereafter	Total
Planning						\$50,000	\$50,000
Design						\$690,000	\$690,000
Construction						\$5,260,000	\$5,260,000
<b>Total</b>	\$0	\$0	\$0	\$0	\$0	\$6,000,000	<b>\$6,000,000</b>

*FY 2018/19 Budget Request - \$0*

### Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2012	Oct 2022	Dec 2022	Jan 2023	Aug 2023	Sep 2023	Mar 2024	Mar 2024

## Capital Improvement Program Montiel Gravity Outfall

**Description:** This project involves the study and potential construction of approximately 7,720 feet of new 10-inch gravity sewer main underneath SR-78 from the Montiel Lift Station to Mission Road and continuing on Mission Road, Andreasen Drive, and Simpson Way to Hale Avenue. This will effectively reroute the sewer that is currently pumped from the Montiel Lift Station to the City of Escondido’s sewer system in Mission Road just east of Nordahl Road.



**Project Manager:** Rob Scholl

**Department:** Engineering

**Project:** 2016100003

**Funding Source:** 45% Fund 210 – Sewer Replacement  
55% Fund 220 – Sewer Capacity

**Work Order:** 165996

**Comments:** To offset the Montiel Lift Station Replacement, the Montiel Lift Station Force Main Replacement, and the Nordahl Shopping Center Sewer Replacement projects as identified in the Master Plan and consistent with the District’s Strategic Plan – Strategic Focus Area 1.4, staff is investigating the possibility of constructing a gravity sewer outfall to the City of Escondido’s sewer system. Upon entering an agreement with the City of Escondido for a new gravity sewer connection, which may include possible reimbursement to the District, the Montiel Lift Station Replacement and the Montiel Lift Station Force Main Replacement will be eliminated and the Nordahl Shopping Center Sewer Replacement project may be eliminated. These projects amount to approximately \$4,700,000 to construct and \$25,000 annually to operate and maintain.

**Operations Impact:** Annual and routine sewer pipeline maintenance.

### Project Spending Plan

Project Phase	Previous Spending	FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23 & Thereafter	Total
Planning	\$243,000	\$240,000					\$483,000
Design		\$162,000	\$5,000				\$167,000
Construction			\$3,310,000	\$765,000			\$4,075,000
<b>Total</b>	\$243,000	\$402,000	\$3,315,000	\$765,000	\$0	\$0	<b>\$4,725,000</b>

**FY 2018/19 Budget Request - \$0**

### Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2015	Feb 2016	Dec 2019	Nov 2018	Aug 2019	Sep 2019	Sep 2020	Sep 2020

## Capital Improvement Program Chlorine Contact Tank Expansion

**Description:** Expand the existing Chlorine Contact Tank (CCT) at the Meadowlark Reclamation Facility (MRF) from 5 million gallons a day (MGD) to 6.5 MGD. Evaluate updating CCT process to utilize Ultraviolet Sterilization.



**Project Manager:** James Gumpel

**Department:** Engineering

**Project:** 2016100002

**Funding Source:** 100% Fund 220 – Sewer Capacity

**Work Order:** 167177

**Comments:** The existing CCT were part of the original expansion of MRF in the 80’s. During the latest expansion of MRF which started in 2005, the CCTs were rerated to handle the expanded flow but were not updated. Currently the CCTs remain one of the bottlenecks in the process at MRF.

Chlorine contact tanks (CCTs) at Meadowlark Water Reclamation Facility (MRF) can process up to 5 million gallons per day (MGD) of reclaimed water; all of the other treatment components at MRF has the ability to process up to 6.5 MGD. This was identified in the draft Nutrient Removal Study, which indicated that MRF has the ability to increase the daily treatment capacity to 6.5 MGD. The District as a member of the North San Diego County Water Reuse Coalition secured a grant of \$90,000 under Prop 84, awarded by the State Water Resources Control Board (SWRCB). The District is seeking 25% Federal Grants for the project budget total and construction of the CCT expansion will be contingent on acquiring these funds.

**Operations Impact:** Normal maintenance.

### Project Spending Plan

Project Phase	Previous Spending	FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23 & Thereafter	Total
Planning	\$64,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$69,000
Design						\$350,000	\$350,000
Construction						\$4,300,000	\$4,300,000
<b>Total</b>	\$64,000	\$1,000	\$1,000	\$1,000	\$1,000	\$4,651,000	<b>\$4,719,000</b>

**FY 2018/19 Budget Request - (\$96,000)**

### Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2015	Apr 2016	Jun 2022	Jul 2022	Oct 2023	Nov 2023	Sep 2024	Sep 2024

## Capital Improvement Program Meadowlark Tank No. 3

**Description:** This existing Meadowlark Tank site is comprised of one 1.25 million gallon tank and a second 2.75 million gallon tank. As part of this project, a new 2.5 million gallon Meadowlark Tank No. 3 will be built.



**Project Manager:** Jason Hubbard

**Department:** Engineering

**Project:** 71084

**Funding Source:** 100% Fund 120 – Water Capacity

**Work Order:** 71084

**Comments:** The site was master planned during the 76-1 Assessment District to accommodate three tanks total. A final 3.5 million gallon tank is not expected to be needed until 2036, when it will replace the 1.25 million gallon tank #1. At build-out, the Meadowlark Tanks will provide a total storage capacity of 8.75 million gallons.

**Operations Impact:** The project will increase capacity at the site by 2.5 million gallons with the construction of the new tank. Daily monitoring of water levels and conditions at the tank site is expected.

### Project Spending Plan

Project Phase	Previous Spending	FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23 & Thereafter	Total
Planning	\$123,000						\$123,000
Design	\$367,000		\$51,000				\$418,000
Construction			\$3,081,000	\$930,000			\$4,011,000
<b>Total</b>	\$490,000	\$0	\$3,132,000	\$930,000	\$0	\$0	<b>\$4,552,000</b>

**FY 2018/19 Budget Request - \$0**

### Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2003	Aug 2003	Mar 2004	Apr 2004	Oct 2019	Nov 2019	Sep 2020	Sep 2020



### Capital Improvement Program City of San Marcos Joint Projects

**Description:** This amount is set-aside to cover services rendered in conjunction with various City of San Marcos projects involving District infrastructure per the District/City of San Marcos Cost Sharing Agreement dated March 31, 2009. This includes District staff time involved in inspection and project management, as well as reimbursements to the City for District infrastructure relocations and adjustments.



**Project Manager:** Rob Scholl

**Department:** Engineering

**Project:** 90007

**Funding Source:** See Below

**Comments:**

Project:	Amount:	Source:
San Marcos Blvd Rehabilitation	\$85,000	Water/Sewer 50% / 50%
Discovery St Widening*	\$647,000	Water/Sewer 95% / 5%
Bent Ave Bridge*	\$912,000	Water/Sewer 70% / 30%
Via Vera Cruz Bridge*	\$2,034,000	Water/Sewer 70% / 30%
Misc. Relocations/Adjustments	\$70,000	Water/Sewer 75% / 25%
<b>Total</b>	<b>\$3,748,000</b>	

These projects are in conjunction with the City's Capital Improvement Plan.

\* - Projects to start construction Jan 2019 with estimated completion 2021/22

**Operations Impact:** Normal maintenance for infrastructure.

#### Project Spending Plan

Project Phase	Previous Spending	FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23 & Thereafter	Total
Planning							
Design							
Construction	\$260,000	\$70,000	\$647,000	\$912,000	\$2,119,000		\$4,008,000
<b>Total</b>	<b>\$260,000</b>	<b>\$70,000</b>	<b>\$647,000</b>	<b>\$912,000</b>	<b>\$2,119,000</b>	<b>\$0</b>	<b>\$4,008,000</b>

**FY 2018/19 Budget Request - \$3,258,000**

#### Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2009						Jun 2022	Jun 2022

## Capital Improvement Program Mountain Belle Pump Station

**Description:** This project involves the construction of three 1,000 gallon-per-minute pumps and 125 horsepower motors, along with all corresponding electronics, within a new building next to the existing Mountain Belle Reservoir. Approximately 1,800 feet of 16-inch connector pipe from the pump station to an existing 10” pipeline in the North Twin Oaks (1330’) Pressure Zone will also be installed.



**Project Manager:** Jason Hubbard

**Department:** Engineering

**Project:** 71219

**Funding Source:** 100% Fund 120 – Water Capacity

**Comments:** The Mountain Belle Pump Station is intended to serve as a completely redundant water supply to the new North Twin Oaks (1330’) pump station. It will be sized to meet ultimate build-out demands in the North Twin Oaks 1330’ Pressure Zone, the 1059’ Pressure Zone, and the North 1228’ Pressure Zone. A pad for this pump station has already been placed next to the Mountain Belle Reservoir (see picture above).

**Operations Impact:** Redundant pumping capacity to the North Twin Oaks Pressure Zone. Daily, routine monitoring and inspections of the pump station is expected, as are regular maintenance efforts and some infrequent repair work.

### Project Spending Plan

Project Phase	Previous Spending	FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23 & Thereafter	Total
Planning	\$10,000						\$10,000
Design	\$90,000					\$310,000	\$400,000
Construction						\$3,450,000	\$3,450,000
<b>Total</b>	\$100,000	\$0	\$0	\$0	\$0	\$3,760,000	<b>\$3,860,000</b>

**FY 2018/19 Budget Request - \$0**

### Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2006	Aug 2006	Feb 2007	Feb 2007	Jun 2022	Jul 2022	Aug 2023	Aug 2023

## Capital Improvement Program Rock Springs Sewer Replacement

**Description:** Abandonment and/or removal of approximately 2,500 feet of 8” VCP sewer main and 10 manholes within Rock Springs Road and adjacent greenbelt. This project will bring relief to a section of existing sewer pipe within a greenbelt drainage area that is currently operating beyond its design limits.



**Project Manager:** Jason Hubbard

**Department:** Engineering

**Project:** 90003

**Funding Source:** 45% Fund 210 – Sewer Replacement  
55% Fund 220 – Sewer Capacity

**Work Order:** 090003

**Comments:** The 2500' of existing vitrified clay pipe (VCP) will be replaced by 2,700 feet of new PVC sewer main, including 16 new manholes and the rehabilitation of 4 existing manholes. This will eliminate an existing surcharging condition in the District’s collection system between Woods Dr. and Hannigans Way within a greenbelt drainage area south of Rock Springs Rd. The 2008 Master Plan has identified this upgrade as project SP-5.

**Operations Impact:** Less inflow and infiltration into the collection system; reduced risk of sewer spilling. Annual, routine sewer pipeline maintenance is expected with the completion of this project.

### Project Spending Plan

Project Phase	Previous Spending	FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23 & Thereafter	Total
Planning	\$50,000						\$50,000
Design	\$590,000						\$590,000
Construction		\$2,750,000					\$2,750,000
<b>Total</b>	<b>\$640,000</b>	<b>\$2,750,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$3,390,000</b>

**FY 2018/19 Budget Request - \$225,000**

### Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2008	Jul 2008	Jan 2010	Feb 2010	Mar 2018	Jul 2018	Mar 2019	Mar 2019

## Capital Improvement Program Encina Wastewater Authority FY 17/18

**Description:** The District is a member agency of the Encina Wastewater Authority (EWA). The District shares in the cost of planned asset replacements and capital acquisitions.



**Project Manager:** Glenn Pruum

**Department:** General Manager

**Project:** 2018100001

**Funding Source:** 100% Fund 210 – Sewer Replacement

**Comments:** These miscellaneous Encina Wastewater Authority capital projects are budgeted each year based on the District's 22.4% ownership share.

**Operations Impact:** No significant increase in costs or changes in efficiencies are anticipated from this project

### Project Spending Plan

Project Phase	Previous Spending	FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23 & Thereafter	Total
Planning							
Design							
Construction	\$2,409,000	\$827,000					\$3,236,000
<b>Total</b>	<b>\$2,409,000</b>	<b>\$827,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$3,236,000</b>

**FY 2018/19 Budget Request - \$0**

### Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2009							Aug 2018

## Capital Improvement Program MRF: Conversion to Sodium Hypochlorite

**Description:** Replace the use of chlorine gas at the Meadowlark Water Reclamation Facility with bulk storage of sodium hypochlorite (bleach).



**Project Manager:** Ed Pedrazzi

**Department:** Engineering

**Project:** 2017100002

**Funding Source:** 100% Fund 210 – Sewer Replacement

**Comments:** The Meadowlark Water Reclamation Facility (MRF) currently uses 100% chlorine gas as a disinfectant in order to meet State regulations for reclaimed water. Chlorine gas is an acute hazard that presents a danger to District staff and the increasing number of residents in the immediate area. Use of this gas requires the District to maintain several expensive State and Federal safety programs, equipment, and a Hazardous Materials response team; requiring a considerable amount of staff time. The conversion to bulk storage of sodium hypochlorite removes the acute hazard of chlorine gas and replaces it with a bleach solution (12.5%) that removes the District’s requirement to maintain several of the extensive safety programs for that site. Use of the bleach will not create an acute hazard in the event of a leak.

**Operations Impact:** Removal of an acute hazard. Reduction in regulatory requirements and staff time at the Meadowlark Reclamation Facility. Economic benefit of no longer needing to import chlorine gas or maintain a HazMat team. Routine maintenance.

### Project Spending Plan

Project Phase	Previous Spending	FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23 & Thereafter	Total
Planning		\$50,000					\$50,000
Design			\$200,000				\$200,000
Construction			\$750,000	\$1,000,000			\$1,750,000
<b>Total</b>	\$0	\$50,000	\$950,000	\$1,000,000	\$0	\$0	<b>\$2,000,000</b>

**FY 2018/19 Budget Request - \$0**

### Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2016	Jul 2018	Jun 2019	Jul 2019	Dec 2019	Jan 2020	Aug 2020	Aug 2020

## Capital Improvement Program Elser Lane Water Line Improvements

**Description:** Project will insure reliability and improve water quality for residents along Elser Lane by transferring water services to a new 6" distribution main instead of the existing 18" transmission main.



**Project Manager:** Jason Hubbard

**Department:** Engineering

**Project:** 2018100002

**Funding Source:** 100% Fund 110 – Water Replacement

**Comments:** An existing 18" steel (CML&C) transmission main between Rees Road and Rock Springs Road was installed in 1956. This line runs between homes, underneath structures, and in backyards where access is limited. Should repairs need to be made to this line, there is a greater chance of damage to property owners. This line also serves approximately 21 residential meters. This project will bring this area into District standards by extending new 6" distribution water lines on Elser Lane to service residents with new water meters. New connections to existing water lines in McLees Court will create a loop in the water supply system, insuring reliability of service and improving water quality. This project also offsets future costs to relocate the water main under the Rees Road Water Line Project.

**Operations Impact:** Improve reliability and water quality. Routine maintenance.

### Project Spending Plan

Project Phase	Previous Spending	FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23 & Thereafter	Total
Planning		\$15,000	\$15,000	\$60,000			\$90,000
Design			\$50,000	\$100,000			\$150,000
Construction				\$250,000	\$1,275,000		\$1,525,000
<b>Total</b>	\$0	\$15,000	\$65,000	\$410,000	\$1,275,000	\$0	<b>\$1,765,000</b>

**FY 2018/19 Budget Request - \$0**

### Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2017	Mar 2019	Sep 2020	Sep 2019	Jan 2021	Mar 2022	Jun 2022	Jun 2022

## Capital Improvement Program Richland Invert Replacement

**Description:** This project calls for the replacement of the existing 100-foot wastewater siphon pipeline that travels under San Marcos Creek from the Diamond Environmental Services parking lot south of Mission Road to the 18-inch Richland Interceptor. The existing 8-inch and 10-inch pipelines will be replaced with either a new 15-inch siphon to be located at the existing pipelines' location or by a new 15-inch gravity pipeline in Mission Road and a new crossing further to the west.



**Project Manager:** Jason Hubbard

**Department:** Engineering

**Project:** 2012100002

**Funding Source:** 100% Fund 210 – Sewer Replacement

**Work Order:** 123749

**Comments:** The existing 8-inch and 10-inch invert pipelines were installed over 27 years ago and were originally designed to be temporary. Because of their size restrictions, they surcharge upstream gravity pipelines during peak flows. In addition, recent inspections by the District's collections crew have revealed damage to the existing pipe. This project crosses underneath San Marcos Creek, and staff anticipates environmental wetland permitting requirements. The 2008 Master Plan has identified this replacement as project SP-10.

**Operations Impact:** The project increases sewage handling capacity in the collections system and solves an existing sewer surcharge issue during daily peak and wet weather events. Annual, routine sewer pipeline maintenance is expected with the completion of this project.

### Project Spending Plan

Project Phase	Previous Spending	FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23 & Thereafter	Total
Planning	\$15,000	\$10,000					\$25,000
Design		\$75,000	\$75,000				\$150,000
Construction			\$150,000	\$1,160,000			\$1,310,000
<b>Total</b>	\$15,000	\$85,000	\$225,000	\$1,160,000	\$0	\$0	<b>\$1,485,000</b>

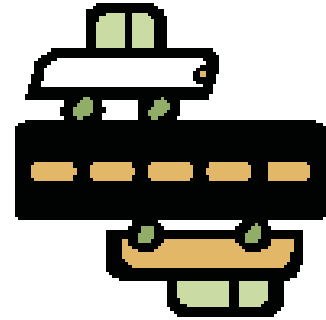
**FY 2018/19 Budget Request - \$0**

### Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jun 2011	Apr 2012	Nov 2018	Apr 2019	May 2020	Jun 2020	Dec 2020	Dec 2020

## Capital Improvement Program Land Outfall Clearing & Access Road

**Description:** The Land Outfall is located within easements for a significant portion of its length where it runs within the Encina Creek riparian area parallel to Palomar Airport Road in Carlsbad. The District is attempting to remove the overgrown vegetation within the easement and construct a drivable path to access the pipeline for maintenance and emergencies. Streambed alteration permitting and habitat mitigation are the major challenges associated with this project.



**Project Manager:** Rob Scholl

**Department:** Engineering

**Project:** 71177

**Funding Source:** 100% Fund 210 – Sewer Replacement

**Comments:** Clearing for the access road impacts is an estimated 1 acre of designated wetland at a cost of approximately \$600,000/acre. The Land Outfall is owned by the District and shares capacity in this stretch with the cities of Carlsbad and Vista and the Buena Sanitation District. The joint agreement requires them to pay their proportionate share of this maintenance activity. Approximate responsibility of cost:

- Buena Sanitation District - 68%
- City of Carlsbad - 12%
- Vallecitos Water District - 20%

**Operations Impact:** Routine maintenance

### Project Spending Plan

Project Phase	Previous Spending	FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23 & Thereafter	Total
Planning	\$260,000	\$540,000					\$800,000
Design	\$40,000	\$50,000					\$90,000
Construction	\$60,000	\$200,000					\$260,000
<b>Total</b>	<b>\$360,000</b>	<b>\$790,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,150,000</b>

**FY 2018/19 Budget Request - \$0**

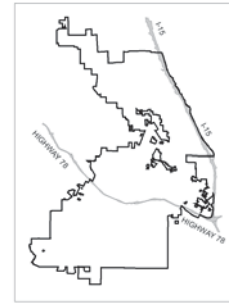
### Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2006	Jul 2006	Jun 2019	Feb 2008	Dec 2018	Jul 2008	Jun 2019	Jun 2019



## Capital Improvement Program Water and Sewer Master Plan

**Description:** Master Plans are typically updated every 5 years because project priorities shift and land use agencies approve zoning changes in the Districts’ boundaries. Since the adoption of the 2008 Master Plan, VWD’s per capita water and wastewater demands have declined due to drought and the recession, and the City of San Marcos has approved several developments with zoning changes. VWD has also inked contracts for the purchase of treated water from the Olivenhain Water District and desalinated water directly from Poseidon Resources – both of which will likely shift capital project priorities. These reasons will trigger the need for a master plan update. This item is part of the VWD Strategic Plan – Strategic Focus Areas 1.3 and 6.4



**Project Manager:** Rob Scholl

**Department:** Engineering

**Project:** 2014100003

**Funding Source:** 50% Fund 120 – Water Capacity  
50% Fund 220 – Sewer Capacity

**Comments:** An Environmental Impact Report will be prepared in conjunction with the master plan update. This document will detail the impacts, at a programmatic level, that the master plan projects may create on the community and the environment. The District’s water and wastewater models will also be updated during this master plan update, and a water supply planning section that will analyze expansion of recycled water use will be included.

**Operations Impact:** Will identify new projects that will likely require frequent maintenance activities by Operations.

### Project Spending Plan

Project Phase	Previous Spending	FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23 & Thereafter	Total
Planning	\$1,075,000	\$50,000					\$1,125,000
Design							
Construction							
<b>Total</b>	\$1,075,000	\$50,000	\$0	\$0	\$0	\$0	<b>\$1,125,000</b>

**FY 2018/19 Budget Request - \$75,000**

### Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2013	Jul 2013	Sep 2018					Sep 2018

## Capital Improvement Program Old Questhaven Sewer Replacement

**Description:** Installation of 1400 feet of 24” PVC sewer main in the old Questhaven Road right-of-way, along with 6 new manholes; abandonment of 935 feet of 21” VCP and 255 feet of 21” PVC temporary sewer pipe in the old Questhaven Road right-of-way; abandonment of 1470 feet of 24” DIP temporary sewer pipe in Rancho Santa Fe Road.



**Project Manager:** Jason Hubbard

**Department:** Engineering

**Project:** 80001

**Funding Source:** 77% Fund 210 – Sewer Replacement  
23% Fund 220 – Sewer Capacity

**Comments:** This project will replace a section of existing temporary sewer pipe in the old Questhaven Road right-of-way. The new pipe section will be higher in elevation to connect to the permanent pipeline in Rancho Santa Fe Road and allow the temporary pipeline in both old Rancho Santa Fe Road and old Questhaven Road right-of-way and San Marcos Creek to be abandoned.

**Operations Impact:** Less inflow and infiltration into the collection system; abandonment of a temporary sewer pipeline. Annual, routine sewer pipeline maintenance is expected with the completion of this project.

### Project Spending Plan

Project Phase	Previous Spending	FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23 & Thereafter	Total
Planning	\$1,000					\$9,000	\$10,000
Design						\$75,000	\$75,000
Construction						\$750,000	\$750,000
<b>Total</b>	\$1,000	\$0	\$0	\$0	\$0	\$834,000	<b>\$835,000</b>

**FY 2018/19 Budget Request - \$0**

### Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2007	Jul 2007	Aug 2022	Sep 2022	Dec 2023	Jan 2024	Jan 2025	Jan 2025

## Capital Improvement Program Expansion of the Men’s Locker Room in Building B

**Description:** Expansion of the men’s locker room in Building B for Operations & Maintenance staff.



**Project Manager:** Ed Pedrazzi

**Department:** Operations and Maintenance

**Project:** 2016100005

**Funding Source:** 51% Fund 110 – Water Replacement  
49% Fund 210 - Sewer Replacement

**Work Order:** 167386

**Comments:** The Operations & Maintenance (O&M) men’s locker room in Building B is no longer large enough to accommodate the number of employees utilizing it. The expansion will increase the size of the locker room by 783 SF. This will provide adequate space for O&M staff to clean up and change uniforms.

**Operations Impact:** Routine maintenance.

### Project Spending Plan

Project Phase	Previous Spending	FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23 & Thereafter	Total
Planning							
Design	\$210,000						\$210,000
Construction		\$560,000					\$560,000
<b>Total</b>	\$210,000	\$560,000	\$0	\$0	\$0	\$0	<b>\$770,000</b>

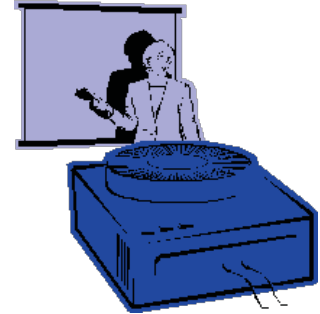
*FY 2018/19 Budget Request - (\$40,000)*

### Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2015			Aug 2016	May 2018	Jun 2018	Dec 2018	Dec 2018

## Capital Improvement Program Audiovisual Upgrade

**Description:** Various audiovisual improvements to upgrade technology in the board room and several conference rooms and the training room.



**Project Manager:** Matias Labarrere

**Department:** Information Technology

**Project:** 2015100002

**Funding Source:** 51% Fund 110 – Water Replacement  
49% Fund 210 - Sewer Replacement

**Work Order:** 157943

**Comments:** The audiovisual systems in the District Board Room, Training Room, and Conference Rooms have become outdated and were installed with the construction of Building A. This project will upgrade existing technology to accommodate televised Board of Director meetings and create a consistency between conference rooms and the training room. Phase I: Select a design consultant to determine upgrade requirements, design the audiovisual systems, and approximate cost. The design consultant will create RFP, assist with selection of a contractor, and oversee project through testing, training and completion. Phase II: Select contractor to implement design from Phase I. District Board Room upgrades will be performed last as a separate contract.

**Operations Impact:** Routine Maintenance

### Project Spending Plan

Project Phase	Previous Spending	FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23 & Thereafter	Total
Planning							
Design	\$45,000						\$45,000
Construction	\$410,000	\$295,000					\$705,000
<b>Total</b>	<b>\$455,000</b>	<b>\$295,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$750,000</b>

**FY 2018/19 Budget Request - \$0**

### Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2015	Jul 2014	Jun 2017		Mar 2018		Sep 2018	Sep 2018

## Capital Improvement Program District-wide Valve Replacement Program

**Description:** Replace broken or leaking valves throughout the District.



**Project Manager:** Kevin Anctil

**Department:** Construction

**Project:** 2016100004

**Funding Source:** 100% Fund 110 – Water Replacement

**Comments:** The valve crew has discovered many broken valves requiring replacement. This project targets 20 valves per year over four years.

**Operations Impact:** Routine maintenance.

### Project Spending Plan

Project Phase	Previous Spending	FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23 & Thereafter	Total
Planning							
Design							
Construction	\$460,000	\$120,000	\$120,000				\$700,000
<b>Total</b>	<b>\$460,000</b>	<b>\$120,000</b>	<b>\$120,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$700,000</b>

**FY 2018/19 Budget Request - \$0**

### Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2015					Jul 2015	Jul 2019	Jun 2019

## Capital Improvement Program High Point Pipeline

**Description:** Approximately 2,800 feet of 12” PVC potable water pipeline is proposed to connect the 1625 High Point Pressure Zone to the 1567 Wulff Pressure Zone. This project also includes the construction of a pressure reducing valve to the 1567 Wulff Pressure Zone’s hydraulic grade line. The High Point development is responsible for installation of an 8” pipeline as part of its development conditions, and the District will reimburse the developer for upsizing the pipeline to 12”.



**Project Manager:** Rob Scholl

**Department:** Engineering

**Project:** 2013100006

**Funding Source:** 100% Fund 120 – Water Capacity

**Comments:** This pipeline provides an auxiliary feed from the 1625 High Point Pressure Zone to the 1567 Wulff Pressure Zone. And with the completion and acceptance of the High Point Hydro-pneumatic Pump Station, the District will have some limited ability to transfer potable water from the 920 Pressure Zone to the higher northern pressure zones that does not currently exist. The 2008 Master Plan has identified this pipeline as Project P-43.

**Operations Impact:** Annual and routine potable water pipeline maintenance.

### Project Spending Plan

Project Phase	Previous Spending	FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23 & Thereafter	Total
Planning							
Design							
Construction			\$700,000				\$700,000
<b>Total</b>	\$0	\$0	\$700,000	\$0	\$0	\$0	<b>\$700,000</b>

**FY 2018/19 Budget Request - \$0**

### Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2012					Oct 2019	Jun 2020	Jun 2020

## Capital Improvement Program NW Lake San Marcos Sewer Replacement and Lining

**Description:** This project involves the replacement of approximately 1000 feet of existing 8-inch VCP sewer pipeline with new 8-inch PVC pipe. In addition, approximately 750 feet of adjacent VCP pipeline will be lined to extend its useful life. This item is part of the VWD Strategic Plan – Strategic Focus Area 1.4



**Project Manager:** Jason Hubbard

**Department:** Engineering

**Project:** 2014100002

**Funding Source:** 100% Fund 210 – Sewer Replacement

**Work Order:** 167352

**Comments:** The sewer pipeline in the northwest Lake San Marcos area is being compromised due to lime leaching into the pipe. This pipe was installed between 1964 and 1971 and is reaching the end of its useful life. While lime damage warrants replacement of most of the pipe in this area, some pipeline can be relined instead to extend its life.

**Operations Impact:** Annual and routine sewer pipeline maintenance.

### Project Spending Plan

Project Phase	Previous Spending	FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23 & Thereafter	Total
Planning	\$2,500	\$2,500					\$5,000
Design		\$25,000	\$80,000				\$105,000
Construction			\$395,000	\$100,000			\$495,000
<b>Total</b>	\$2,500	\$27,500	\$475,000	\$100,000	\$0	\$0	<b>\$605,000</b>

**FY 2018/19 Budget Request - \$0**

### Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2013	Jul 2016	Feb 2019	Mar 2019	Mar 2020	Apr 2020	Nov 2020	Nov 2020

## Capital Improvement Program Asset Management Replacement Schedule

**Description:** Create a prioritized Asset/Infrastructure replacement schedule, including condition assessment, for the District Facilities. This item is part of the VWD Strategic Plan – Strategic Focus Area 1.2.



**Project Manager:** James Gumpel

**Department:** Engineering

**Project:** 2014100004

**Funding Source:** 50% Fund 110 – Water Replacement  
50% Fund 210 – Sewer Replacement

**Comments:** The District’s infrastructure is aging and proper planning requires an understanding of when, where, and how much replacing that infrastructure will cost. Proper preventative maintenance helps insure the District obtains the maximum beneficial life out of its infrastructure. The District has already taken steps towards this by implementing a computerized maintenance management system (CMMS) also known as Maximo to implement and track preventative, corrective, and emergency maintenance/repairs on all assets or infrastructure. This project will take the CMMS information and prioritize a replacement schedule as well as cost over the expected life of all assets/infrastructure. Consultants will be utilized to perform condition assessment on pipelines identified from the Districts Asset Management schedule. Data from condition assessment will identify future repair and replacement projects.

**Operations Impact:** An asset management schedule will help to prevent costly line breaks.

### Project Spending Plan

Project Phase	Previous Spending	FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23 & Thereafter	Total
Planning	\$13,000	\$113,000	\$150,000	\$50,000			\$326,000
Design							
Construction		\$179,000		\$95,000			\$274,000
<b>Total</b>	\$13,000	\$292,000	\$150,000	\$145,000	\$0	\$0	<b>\$600,000</b>

**FY 2018/19 Budget Request - \$0**

### Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2013	Jul 2017	Jun 2021					Jun 2021



## Capital Improvement Program Schoolhouse Tank Refurbishment

**Description:** Schoolhouse Tank requires interior refurbishment.



**Project Manager:** Jason Hubbard

**Department:** Engineering

**Project:** 2018100003

**Funding Source:** 100% Fund 110 – Water Replacement

**Work Order:** 189273

**Comments:** The existing interior lining of the 2.4 MG tank has deteriorated and requires full refurbishment. This project will remove the existing lining and install a new interior lining. Repairs to the ceiling rafters and equipment upgrades may also be necessary.

**Operations Impact:** Prevent further delamination of the existing lining. Improve safety. Routine maintenance

### Project Spending Plan

Project Phase	Previous Spending	FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23 & Thereafter	Total
Planning	\$5,000						\$5,000
Design	\$20,000	\$5,000					\$25,000
Construction		\$560,000					\$560,000
<b>Total</b>	<b>\$25,000</b>	<b>\$565,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$590,000</b>

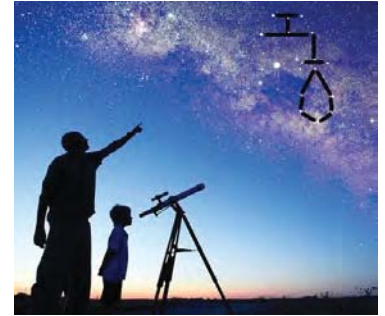
*FY 2018/19 Budget Request - (\$85,000)*

### Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jun 2017	Jul 2017	Jul 2017	Aug 2017	Oct 2018	Nov 2018	Mar 2019	Mar 2019

## Capital Improvement Program Stargaze Court and River Run Circle Water Line Rehabilitation

**Description:** Rehabilitate approximately 730 LF of existing 8" water line in Stargaze Court and 870 LF of existing 8" water line in River Run Circle. The pipeline in these two streets have failed on numerous occasions over the past few years due to excessive corrosion and more failures are anticipated due to highly corrosive subsurface conditions.



**Project Manager:** Jason Hubbard

**Department:** Engineering

**Project:** 2018100005

**Funding Source:** 100% Fund 110 – Water Replacement

**Work Order:** 196556

**Comments:** This project will prevent the existing pipeline from further failure due to corrosion by rehabilitating the ductile iron pipe with a new internal structural liner. Trenchless methods used on the rehabilitation process will reduce disruptions to the community.

**Operations Impact:** The existing waterlines are corroding and subject to replacement or rehabilitation. Operations and maintenance repair costs will be minimized at these locations.

### Project Spending Plan

Project Phase	Previous Spending	FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23 & Thereafter	Total
Planning	\$3,000						\$3,000
Design	\$6,000						\$6,000
Construction	\$71,000	\$402,000					\$473,000
<b>Total</b>	<b>\$80,000</b>	<b>\$402,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$482,000</b>

**FY 2018/19 Budget Request - \$0**

### Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jun 2017	Jul 2017	Feb 2018	Mar 2018	May 2018	Jun 2016	Aug 2018	Aug 2018

## Capital Improvement Program Vulnerability Assessment Improvements

**Description:** The District completed the Vulnerability Assessment as required by the Department of Homeland Security. Recommended improvements were identified and being phased in. Fiscal year 2014/15 purchases are for security devices and a 500 kW generator.



**Project Manager:** Jerome Janus

**Department:** Engineering - Safety

**Project:** 71126

**Funding Source:** 51% Fund 110 – Water Replacement  
49% Fund 210 - Sewer Replacement

**Comments:** Implementing safety measures to mitigate vulnerabilities is an on-going process. Due to the highly confidential and sensitive nature of the assessment findings, specific improvements are not defined in this document. Security measures are implemented with the most vulnerable areas addressed first.

**Operations Impact:** Continual review of measures implemented and discovery of unidentified areas.

### Project Spending Plan

Project Phase	Previous Spending	FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23 & Thereafter	Total
Planning							
Design							
Construction	\$50,000	\$397,700					\$447,700
<b>Total</b>	\$50,000	\$397,700	\$0	\$0	\$0	\$0	<b>\$447,700</b>

**FY 2018/19 Budget Request - \$0**

### Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2004							Jun 2018

## Capital Improvement Program Las Posas 10-inch Water Main Replacement

**Description:** Replace an existing 10" DIP water main crossing underneath an existing double reinforced box culvert on Las Posas Road.



**Project Manager:** Jason Hubbard

**Department:** Engineering

**Project:** 2018100004

**Funding Source:** 100% Fund 110 – Water Replacement

**Comments:** A 10" DIP water main underneath a double reinforced box culvert (RBC) on Las Posas Road, between Linda Vista Drive and Stone Drive is aging and in need of replacement. It has experienced a break in recent years and control valves associated with this water main are non-operational. The replacement will involve installing a new parallel PVC water main in a steel casing and reconnecting to the existing ACP located on either side of the double RBC.

**Operations Impact:** Prevent future breaks. Routine maintenance.

### Project Spending Plan

Project Phase	Previous Spending	FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23 & Thereafter	Total
Planning		\$5,000	\$10,000				\$15,000
Design			\$25,000				\$25,000
Construction			\$380,000				\$380,000
<b>Total</b>	\$0	\$5,000	\$415,000	\$0	\$0	\$0	<b>\$420,000</b>

*FY 2018/19 Budget Request - (\$160,000)*

### Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jun 2017	Jun 2018	Aug 2018	Sep 2018	Dec 2018	Mar 2019	Apr 2019	Apr 2019

## Capital Improvement Program Palos Vista Pump Station – Generator

**Description:** Install new permanent generator with manual transfer switch.



**Project Manager:** Robert Salazar

**Department:** Mechanical/Electrical

**Project:** 2018100006

**Funding Source:** 100% Fund 110 – Water Replacement

**Comments:** Palos Vista Pump Station has no permanent generator for emergency power. To insure reliability to this facility, an APCD/CARB compliant generator will need to be installed at the station. Improvements will also include an manual transfer switch, enclosure, concrete pad, and conduit.

**Operations Impact:** Provide reliability to the pump station in the event of a power failure. Routine maintenance.

### Project Spending Plan

Project Phase	Previous Spending	FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23 & Thereafter	Total
Planning	\$3,000						\$3,000
Design	\$38,000						\$38,000
Construction	\$25,000	\$259,000					\$284,000
<b>Total</b>	<b>\$66,000</b>	<b>\$259,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$325,000</b>

**FY 2018/19 Budget Request - \$0**

### Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2016	Jul 2017	Aug 2017	Feb 2018	Mar 2018	May 2018	Nov 2018	Nov 2018

## Capital Improvement Program Rock Springs Valve Replacement

**Description:** Replace the existing 12 inch and 14 inch valve cluster at Rock Springs Road and Bennet Avenue and associated piping. The valves are non-operational and the nearby pipeline has failed in recent years



**Project Manager:** Jason Hubbard

**Department:** Engineering

**Project:** 2016100007

**Funding Source:** 100% Fund 110 – Water Replacement

**Comments:** This project will allow proper control of the water system and prevent further failures.

**Operations Impact:** The valves are non-operational. Operations and maintenance repair costs will be minimized at this location.

### Project Spending Plan

Project Phase	Previous Spending	FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23 & Thereafter	Total
Planning	\$5,000	\$10,000					\$15,000
Design		\$65,000					\$65,000
Construction			\$220,000				\$220,000
<b>Total</b>	\$5,000	\$75,000	\$220,000	\$0	\$0	\$0	<b>\$300,000</b>

**FY 2018/19 Budget Request - \$35,000**

### Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2015	Jun 2018	Aug 2018	Sep 2018	Jun 2019	Jul 2019	Oct 2019	Oct 2019

## Capital Improvement Program Solar Panel Inverter Replacement

**Description:** Replace two existing inverters with new Solectria inverters to insure proper operation and solar efficiency.



**Project Manager:** Dennis Bowman

**Department:** Warehouse/Purchasing

**Project:** 2018100007

**Funding Source:** 51% Fund 110 – Water Replacement  
49% Fund 210 - Sewer Replacement

**Comments:** Our solar panel inverters are very old and the company that made them went out of business. It is very difficult to find the necessary materials to make repairs which costs the district money when they are down. We would like to replace them with updated inverters to insure proper operation and energy efficiency.

**Operations Impact:** Engineering impact for larger contract preparation Warehouse impact when quotes are gather and meetings with contractors.

### Project Spending Plan

Project Phase	Previous Spending	FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23 & Thereafter	Total
Planning	\$10,000						\$10,000
Design		\$20,000					\$20,000
Construction		\$265,000					\$265,000
<b>Total</b>	\$10,000	\$285,000	\$0	\$0	\$0	\$0	<b>\$295,000</b>

**FY 2018/19 Budget Request - \$0**

### Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2017	Jul 2017	Jun 2018	Jul 2017	Jun 2018	Jul 2017	Jul 2018	Jul 2018

## Capital Improvement Program Fire Services - Backflow Preventer Upgrades

**Description:** Replace single-check backflow prevention systems with double-check systems on fire services.



**Project Manager:** Kevin Anctil

**Department:** Construction

**Project:** 2017100005

**Funding Source:** 100% Fund 110 – Water Replacement

**Comments:** The District is responsible for several fire service backflow preventers in the distribution system that were installed prior to new District standards being adopted. The single-check backflow preventers that were installed are no longer an acceptable device and some have failed due to corrosion from being installed in an underground vault. The Construction department will replace 5 systems each year with an approved double-check backflow prevention system and bring the services above ground.

**Operations Impact:** Enhanced backflow prevention. Routine maintenance.

### Project Spending Plan

Project Phase	Previous Spending	FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23 & Thereafter	Total
Planning							
Design							
Construction	\$40,000	\$50,000	\$55,000	\$55,000	\$50,000		\$250,000
<b>Total</b>	\$40,000	\$50,000	\$55,000	\$55,000	\$50,000	\$0	<b>\$250,000</b>

**FY 2018/19 Budget Request - \$0**

### Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2017							Jun 2021



## Capital Improvement Program Via Vera Cruz Tank Hill Stabilization

**Description:** A side slope adjacent to the Via Vera Cruz Tank requires slope stabilization treatment.



**Project Manager:** Jason Hubbard

**Department:** Engineering

**Project:** 2016100014

**Funding Source:** 100% Fund 110 – Water Replacement

**Work Order:** 162901

**Comments:** A portion of the existing slope adjacent to the Visa Vera Cruz Tank on District property is failing due to steep terrain and material composition. The foundation of a property line fence is being eroded and exposed and material washes down to the tank elevation. Routine clean-up of the area is done and falling rocks threaten to damage the tank. This project will apply a mesh or tensioned slope stabilization system to approximately 2200 SF of steep slope to prevent further failures and/or a debris barrier along a portion of the perimeter to catch failing rocks. Repairs to the property line fence will also be performed and landscaping repairs may be necessary.

**Operations Impact:** Reduced risk of damage to the tank from falling rocks. Eliminate clean-up of the area from debris. Maintain security of property with intact fence. Annual and routine monitoring of the slope.

### Project Spending Plan

Project Phase	Previous Spending	FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23 & Thereafter	Total
Planning							
Design	\$10,000	\$15,000					\$25,000
Construction	\$52,000	\$143,000					\$195,000
<b>Total</b>	<b>\$62,000</b>	<b>\$158,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$220,000</b>

**FY 2018/19 Budget Request - \$75,000**

### Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2015	Jan 2016	Mar 2016	Apr 2016	Jul 2018	Apr 2018	Oct 2018	Oct 2018

**Capital Improvement Program  
MRF - Replace the Influent Pumps & Motors**

**Description:** Replacement of the three influent dry-pit submersible pump & motor units with vertical, modular type pump & motor units.



**Project Manager:** Robert Salazar

**Department:** Mechanical/Electrical

**Project:** 2018100009

**Funding Source:** 100% Fund 210 – Sewer Replacement

**Comments:** The current dry-pit submersible pump units have to be delivered to a facility that specializes in the repair of sealed pump units. A modular vertical type pump & motor unit can be disassembled, serviced and repaired by District maintenance staff. This reduces repair costs and allows for less down time of the equipment.

**Operations Impact:** Reduced repair costs and down time. Routine maintenance.

**Project Spending Plan**

Project Phase	Previous Spending	FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23 & Thereafter	Total
Planning							
Design							
Construction	\$65,000	\$65,000	\$65,000				\$195,000
<b>Total</b>	\$65,000	\$65,000	\$65,000	\$0	\$0	\$0	<b>\$195,000</b>

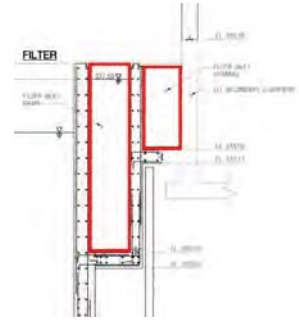
**FY 2018/19 Budget Request - \$0**

**Estimated Project Timeline**

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2017							Jun 2020

## Capital Improvement Program MRF - Tertiary Influent Chamber Repairs

**Description:** The Tertiary Influent Chamber at the Meadowlark Water Reclamation Facility (MRF) requires repairs to the protective coating and mixing air line.



**Project Manager:** Dawn McDougale

**Department:** Meadowlark Reclamation Facility

**Project:** 2018100011

**Funding Source:** 100% Fund 250 - Reclaimed

**Comments:** The existing high solids epoxy, lining the MRF Tertiary Influent Chamber, is failing and in need of repair. The chamber transitions Secondary wastewater effluent to the Tertiary Filter basins. The stainless steel mixing air line inside the chamber has also developed leaks. Using bypass methods, the chamber's protective lining will need to be repaired and the airline replaced during the low flow season.

**Operations Impact:** Repairs to the coating maintain the integrity of the concrete structure. Replacement of the mixing air line will prevent leaks and maintain operational processes.

### Project Spending Plan

Project Phase	Previous Spending	FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23 & Thereafter	Total
Planning							
Design		\$15,000					\$15,000
Construction		\$150,000					\$150,000
<b>Total</b>	\$0	\$165,000	\$0	\$0	\$0	\$0	<b>\$165,000</b>

**FY 2018/19 Budget Request - \$50,000**

### Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2017	Apr 2018	Jun 2018	Jul 2018	Dec 2018	Jan 2019	Mar 2019	Mar 2019

## Capital Improvement Program Palos Vista Pump Station - Motor Replacement

**Description:** Replace the motors on all four pumps at Palos Vista Pump Station.



**Project Manager:** Robert Salazar

**Department:** Mechanical/Electrical

**Project:** 2016100008

**Funding Source:** 100% Fund 110 – Water Replacement

**Comments:** The existing pump motors have been in service for over 20 years. They are no longer efficient and should be upgraded to the new premium efficiency motors. The new motors will operate more efficiently and save on energy costs.

**Operations Impact:** Improved reliability and efficiency at Palos Vista Pump Station. Potential savings in electrical costs. Normal maintenance.

### Project Spending Plan

Project Phase	Previous Spending	FY 18/19	FY 19/20	FY 19/20	FY 20/21	FY 21/22 & FY 22/23	Total
Planning							
Design							
Construction	\$84,000	\$34,000					\$118,000
<b>Total</b>	<b>\$84,000</b>	<b>\$34,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$118,000</b>

**FY 2018/19 Budget Request - \$0**

### Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2015					Jul 2015	Jun 2019	Jun 2019

## Capital Improvement Program Replace Roofs on Equipment Storages

**Description:** Replace roofs on the car wash, fuel island, and two equipment storages with more durable metal roofing.



**Project Manager:** Dennis Bowman

**Department:** Warehouse/Purchasing

**Project:** 2018100014

**Funding Source:** 51% Fund 110 – Water Replacement  
49% Fund 210 - Sewer Replacement

**Comments:** The fiberglass corrugated roofing is 22 years old and needs to be replaced because it is a safety concern.

**Operations Impact:** Warehouse and Administrative impact for quoting and contract write up/organization.

### Project Spending Plan

Project Phase	Previous Spending	FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23 & Thereafter	Total
Planning		\$5,000					\$5,000
Design		\$2,000					\$2,000
Construction		\$70,000					\$70,000
<b>Total</b>	\$0	\$77,000	\$0	\$0	\$0	\$0	<b>\$77,000</b>

**FY 2018/19 Budget Request - \$0**

### Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2017	Jul 2017	Jun 2019	Jul 2017	Jun 2019	Jul 2017	Jun 2019	Jun 2019

## Capital Improvement Program Building A Kitchens

**Description:** Remove and replace old counters with higher grade materials and replace the floor with industrial grade laminate.



**Project Manager:** Dennis Bowman

**Department:** Warehouse/Purchasing

**Project:** 2018100016

**Funding Source:** 51% Fund 110 – Water Replacement  
49% Fund 210 - Sewer Replacement

**Comments:** The Building A kitchen and kitchenettes are roughly 20 years old and experience daily use.

**Operations Impact:** None

### Project Spending Plan

Project Phase	Previous Spending	FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23 & Thereafter	Total
Planning							
Design							
Construction		\$65,000					\$65,000
<b>Total</b>	\$0	\$65,000	\$0	\$0	\$0	\$0	<b>\$65,000</b>

**FY 2018/19 Budget Request - \$0**

### Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2017							Jun 2018

## Capital Improvement Program Building B Laminate Floor Replacement

**Description:** The flooring in B building is peeling up. To prevent trip hazards this project will thoroughly seal the concrete below and lay the new laminate.



**Project Manager:** Dennis Bowman

**Department:** Warehouse/Purchasing

**Project:** 2017100009

**Funding Source:** 51% Fund 110 – Water Replacement  
49% Fund 210 - Sewer Replacement

**Comments:** Remove old flooring, seal concrete, and install new flooring.

**Operations Impact:** None

### Project Spending Plan

Project Phase	Previous Spending	FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23 & Thereafter	Total
Planning							
Design							
Construction		\$40,000					\$40,000
<b>Total</b>	\$0	\$40,000	\$0	\$0	\$0	\$0	<b>\$40,000</b>

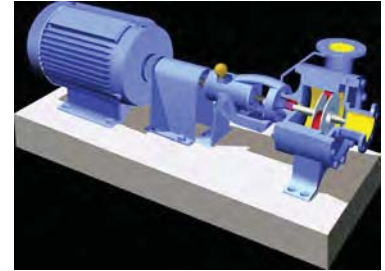
**FY 2018/19 Budget Request - \$0**

### Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2016							Jun 2018

## Capital Improvement Program HVAC Pump and Motor Replacement

**Description:** There are two pumps that supply the cold water to the building for adequate temperature and proper operation. One motor had to be replaced in an emergency and the other is starting to fail.



**Project Manager:** Dennis Bowman

**Department:** Warehouse/Purchasing

**Project:** 2017100016

**Funding Source:** 51% Fund 110 – Water Replacement  
49% Fund 210 - Sewer Replacement

**Comments:** Remove old pump and motor skid. Drain the system and install new unit to maintain proper operation of the HVAC system.

**Operations Impact:** None

### Project Spending Plan

Project Phase	Previous Spending	FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23 & Thereafter	Total
Planning							
Design							
Construction	\$17,000	\$3,000					\$20,000
<b>Total</b>	\$17,000	\$3,000	\$0	\$0	\$0	\$0	<b>\$20,000</b>

**FY 2018/19 Budget Request - \$0**

### Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2016							Jun 2018



## Capital Improvement Program Encina Wastewater Authority Five Year Plan

**Description:** The District is a member agency of the Encina Wastewater Authority (EWA). The District shares in the cost of planned asset replacements and capital acquisitions.



**Project Manager:** Glenn Pruim

**Department:** General Manager

**Project:** 2019100001

**Funding Source:** 77% Fund 210 – Sewer Replacement  
23% Fund 220 – Sewer Capacity

**Comments:** These miscellaneous capital projects are budgeted each year

**Operations Impact:** No significant increase in costs or changes in efficiencies are anticipated from this project..

### Project Spending Plan

Project Phase	Previous Spending	FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23 & Thereafter	Total
Planning							
Design							
Construction		\$4,795,000	\$5,438,000	\$4,558,000	\$3,721,000	\$5,064,000	\$23,576,000
<b>Total</b>	\$0	\$4,795,000	\$5,438,000	\$4,558,000	\$3,721,000	\$5,064,000	<b>\$23,576,000</b>

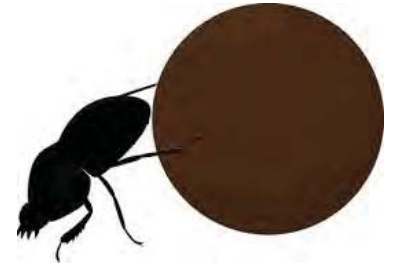
**FY 2018/19 Budget Request - \$23,576,000**

### Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2009						Jun 2023	Jun 2023

## Capital Improvement Program MRF - Biological Selector Improvements

**Description:** Construct modifications to the existing aeration basins to reduce sludge bulking, improve treatment, and reduce operation and maintenance costs at MRF.



**Project Manager:** James Gumpel

**Department:** Meadowlark Reclamation Facility

**Project:** 2019100002

**Funding Source:** 100% Fund 250 - Reclaimed

**Comments:** Using biological modeling, this project will make improvements to the aeration basin operation and capacity. With the addition of a anaerobic selector to the existing aeration basin, overall treatment will improve, lowering operational costs. In addition flexibility will be added to the process by allowing treatment to occur without running the roughing filters. Infrastructure modifications will be made to the aeration basin including changing to ceramic disc diffusers and adding geo-membrane baffling, a new compressed air mixing system, and process control probes.

**Operations Impact:** Reduce operation and maintenance costs.

### Project Spending Plan

Project Phase	Previous Spending	FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23 & Thereafter	Total
Planning		\$66,000					\$66,000
Design			\$160,000				\$160,000
Construction			\$360,000	\$1,080,000			\$1,440,000
<b>Total</b>	\$0	\$66,000	\$520,000	\$1,080,000	\$0	\$0	<b>\$1,666,000</b>

**FY 2018/19 Budget Request - \$1,666,000**

### Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2018	Jul 2018	Jun 2019	Jul 2019	Dec 2019	Jan 2020	Dec 2020	Dec 2020

## Capital Improvement Program North Twin Oaks Tank No. 1 Refurbishment

**Description:** North Twin Oaks Tank No. 1 requires interior and exterior refurbishment.



**Project Manager:** Jason Hubbard

**Department:** Engineering

**Project:** 2019100003

**Funding Source:** 100% Fund 110 – Water Replacement

**Comments:** North Twin Oaks Tank No. 1 was built in 1961 off El Paso Alto and was last inspected in 2010 and 2015. The existing interior lining and exterior coating of this 0.6 MG tank has deteriorated and requires full refurbishment. This project will remove the existing interior lining and exterior coating and install new linings and coatings. Due to the age of the tank and level of deterioration, repairs to the ceiling rafters or replacement may be necessary as well as upgrades to the safety and cathodic protection equipment.

**Operations Impact:** Prevent further deterioration of the existing linings and coatings. Improved safety. Routine Maintenance.

### Project Spending Plan

Project Phase	Previous Spending	FY 18/19	FY 19/20	FY 20/21	FY 21/22	Thereafter	Total
Planning							
Design		\$60,000					\$60,000
Construction		\$365,000					\$365,000
<b>Total</b>	\$0	\$425,000	\$0	\$0	\$0	\$0	<b>\$425,000</b>

**FY 2018/19 Budget Request - \$425,000**

### Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jun 2018	Jul 2018	Jul 2018	Sep 2018	Mar 2019	Mar 2019	Jun 2019	Jun 2019

## Capital Improvement Program OSHA Compliant Ladder Climb Safety Systems

**Description:** OSHA compliance and increased safety for ladder climb systems for 17 above ground steel tanks in the District's distribution system.



**Project Manager:** Shawn Askine

**Department:** Water Operations

**Project:** 2019100004

**Funding Source:** 100% Fund 110 – Water Replacement

**Comments:** The District's above ground steel water tanks have fixed ladder climb systems which are no longer in compliance with current OSHA safety regulations. District staff and contractors use these systems to access the top of the tanks to perform inspections and maintenance on the structures. The District has reached out to certified safety contractors for this type of work in order to evaluate what will be required to bring the ladder climb systems up to current standards. The work may include adding additional connection points to the top of the tanks, as well as at the transition from the ladder to the top of the tank. We have 17 tanks in the distribution system that require retrofitting.

**Operations Impact:** OSHA Compliance and increased safety for workers using the ladder climb systems on above ground steel tanks.

### Project Spending Plan

Project Phase	Previous Spending	FY 18/19	FY 19/20	FY 20/21	FY 21/22	Thereafter	Total
Planning							
Design							
Construction		\$200,000					\$200,000
<b>Total</b>	\$0	\$200,000	\$0	\$0	\$0	\$0	<b>\$200,000</b>

**FY 2018/19 Budget Request - \$200,000**

### Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2018							Jun 2019

## Capital Improvement Program Sewer Rehabilitation and Repairs

**Description:** Several sewer line sections located throughout the District need rehabilitation to lengthen the life of the aging pipe.



**Project Manager:** Eric Garcia

**Department:** Systems Collection

**Project:** 2019100005

**Funding Source:** 100% Fund 210 – Sewer Replacement

**Comments:** Sewer line sections on San Pablo Drive, Bennett Road, Ficus Lane, North Pacific Street, Avenida Fragata, Sutter Lane, and Woods Drive and within the Districts easements on Jennileah Lane and La Sombra Drive totaling approximately 1000 feet are in need of rehabilitation to restore pipe integrity and flow capacity. These pipe sections have become compromised either due to age, pipe material type, ground settlement, or root intrusion. Significant costs will be accrued upon line failures if the sections of pipe are not rehabilitated.

**Operations Impact:** Restored structural integrity and flow capacity and increased service life of sewer line sections.

### Project Spending Plan

Project Phase	Previous Spending	FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23 & Thereafter	Total
Planning							
Design		\$8,000					\$8,000
Construction		\$180,000					\$180,000
<b>Total</b>	\$0	\$188,000	\$0	\$0	\$0	\$0	<b>\$188,000</b>

**FY 2018/19 Budget Request - \$188,000**

### Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2018	Jul 2018	Aug 2018	Aug 2018	Sep 2018	Oct 2018	Nov 2018	Nov 2018

## Capital Improvement Program Sewer Bypass Repair

**Description:** The 16" Emergency Sewer Bypass pipeline is in need of a point repair. A condition assessment will be made of the adjacent pipeline sections during the repair.



**Project Manager:** Jason Hubbard

**Department:** Engineering

**Project:** 2019100006

**Funding Source:** 100% Fund 210 – Sewer Replacement

**Comments:** The 16" Emergency Sewer Bypass pipeline serves to divert sewer flows from lift station #1 and the Lake San Marcos lift station away from the Meadowlark Water Reclamation Facility (MRF) to the Land Outfall. This minimizes flows into MRF during scheduled maintenance or during plant capacity emergencies. Currently the emergency sewer bypass line has a break in the pipe at a connection between a section of techite pipe and ductile iron pipe. This section of pipe will need to be replaced with new PVC pipe and reconnected. District staff will take advantage of the pipe being open during the repair to clean the adjacent pipelines and perform a pipeline condition assessment to evaluate the need for any future improvements.

**Operations Impact:** Restore integrity to the pipeline to allow normal operations.

### Project Spending Plan

Project Phase	Previous Spending	FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23 & Thereafter	Total
Planning							
Design		\$8,000					\$8,000
Construction		\$134,000					\$134,000
<b>Total</b>	\$0	\$142,000	\$0	\$0	\$0	\$0	<b>\$142,000</b>

**FY 2018/19 Budget Request - \$142,000**

### Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2018			Jul 2018	Aug 2018	Sep 2018	Oct 2018	Oct 2018

## Capital Improvement Program Sewer Replacement and I&I Repairs

**Description:** During the course of the year, unexpected damage and emergency repairs are needed. This budget item sets aside money to perform necessary repairs.



**Project Manager:** Eric Garcia

**Department:** Systems Collection

**Project:** 2019100007

**Funding Source:** 100% Fund 210 – Sewer Replacement

**Comments:** These funds will only be used after review and approval by the District Engineer and the Operations and Maintenance Manager.

**Operations Impact:** None.

### Project Spending Plan

Project Phase	Previous Spending	FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23 & Thereafter	Total
Planning							
Design							
Construction		\$100,000					\$100,000
<b>Total</b>	\$0	\$100,000	\$0	\$0	\$0	\$0	<b>\$100,000</b>

**FY 2018/19 Budget Request - \$0**

### Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2018							Jun 2019

## Capital Improvement Program Effluent & Backwash Sluice Gate

**Description:** Replace the existing sluice gate located in the Chlorine Contact Tank - Effluent and Backwash Pump Station.



**Project Manager:** Dawn McDougle

**Department:** Meadowlark Reclamation Facility

**Project:** 2019100008

**Funding Source:** 100% Fund 250 - Reclaimed

**Comments:** The existing sluice gate in the Effluent and Backwash Pump Station, which is used to isolate tertiary flows in the Chlorine Contact Tank, is non-functional. The sluice gate needs to be replaced to restore operational use of this equipment.

**Operations Impact:** Restore operational functionality. Normal maintenance.

### Project Spending Plan

Project Phase	Previous Spending	FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23 & Thereafter	Total
Planning							
Design		\$15,000					\$15,000
Construction		\$65,000					\$65,000
<b>Total</b>	\$0	\$80,000	\$0	\$0	\$0	\$0	<b>\$80,000</b>

**FY 2018/19 Budget Request - \$80,000**

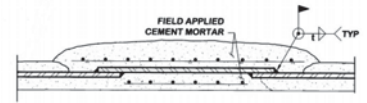
### Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2018			Jul 2018	Dec 2018	Jan 2019	Feb 2019	Feb 2019



## Capital Improvement Program Vallecitos 9 Turnout Pipeline Repair

**Description:** A joint on the turnout pipeline to Vallecitos 9 flow control facility is in need of repair to restore interior mortar lining.



**Project Manager:** Jason Hubbard

**Department:** Engineering

**Project:** 2019100009

**Funding Source:** 100% Fund 110 – Water Replacement

**Comments:** The Vallecitos 9 flow control facility receives desalinated water from the San Diego County Water Authority (SDCWA) via a 16" CML&C steel pipeline through the SDCWA's Pipeline Interconnection Facilities (PIF). Though this line was installed by the District, it is owned and operated by the SDCWA. During a warranty inspection of the turnout pipeline, the mortar lining for an interior joint was determined to be in need of repair.

**Operations Impact:** Restore protective coating to pipeline to prevent corrosion.

### Project Spending Plan

Project Phase	Previous Spending	FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23 & Thereafter	Total
Planning							
Design		\$13,000					\$13,000
Construction		\$57,000					\$57,000
<b>Total</b>	\$0	\$70,000	\$0	\$0	\$0	\$0	<b>\$70,000</b>

**FY 2018/19 Budget Request - \$70,000**

### Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2018			Jul 2018	Aug 2028	Sep 2018	Oct 2018	Oct 2018

## Capital Improvement Program Mountain Belle Tank - Chlorine Injection System

**Description:** Installation of a calcium hypochlorite injection system at Mountain Belle Tank for residual maintenance and control of nitrification.



**Project Manager:** Shawn Askine

**Department:** Water Operations

**Project:** 2019100010

**Funding Source:** 100% Fund 110 – Water Replacement

**Comments:** Mountain Belle Tank is one of our reservoirs that consistently experiences problems with water quality due to its large size and low demand conditions. Water System Operators are required to add additional chlorine to this reservoir on a frequent basis for at least nine months of the year. This requires significant staff time and addition of chlorine in an inefficient process. The chlorine injection equipment will allow operators to load the equipment with chlorine tablets and then use the SCADA computer control systems to treat the reservoir during the filling cycle. This will allow for an improved mixing of the chlorine in the reservoir and reduce staff time. An online chlorine analyzer will also be installed at this location to monitor the water quality and transmit the data into our Water Operations control room.

**Operations Impact:** Improved water quality within the reservoir and reduced staff time.

### Project Spending Plan

Project Phase	Previous Spending	FY 18/19	FY 19/20	FY 20/21	FY 21/22	Thereafter	Total
Planning							
Design							
Construction		\$65,000					\$65,000
<b>Total</b>	\$0	\$65,000	\$0	\$0	\$0	\$0	<b>\$65,000</b>

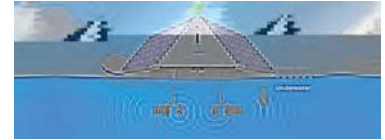
**FY 2018/19 Budget Request - \$65,000**

### Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2018							Jun 2019

## Capital Improvement Program Ultrasonic Algae Control System

**Description:** The MPC-Buoy is a floating, solar powered, platform that combines continuous online water quality monitoring, web-based software, and ultrasonic technology to effectively control harmful algal blooms in large water surfaces, such as lakes and larger ponds.



**Project Manager:** Ed Pedrazzi

**Department:** Meadowlark Reclamation Facility

**Project:** 2019100011

**Funding Source:** 100% Fund 250 - Reclaimed

**Comments:** The MPC-Buoy by LG Sonic is an ultrasonic algae control system that will be used to help reduce the amount of algae growth in the reclaimed water stored in Mahr Reservoir. The ultrasonic device is a floating solar-powered system that combines real-time water quality monitoring and ultrasonic sound waves to control algae effectively. Using ultrasound to control the growth of algae in Mahr Reservoir means less chemicals will need to be used to maintain water quality.

**Operations Impact:** Reduced chemical usage and improved water quality.

### Project Spending Plan

Project Phase	Previous Spending	FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23 & Thereafter	Total
Planning							
Design							
Construction		\$65,000					\$65,000
<b>Total</b>	\$0	\$65,000	\$0	\$0	\$0	\$0	<b>\$65,000</b>

**FY 2018/19 Budget Request - \$65,000**

### Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2018							Jun 2019

## Capital Improvement Program Door Access Control System Expansion

**Description:** Add 6 doors to our current BlueWave control access system to allow keyless entry



**Project Manager:** Matias Labarrere

**Department:** Information Technology

**Project:** 2019100012

**Funding Source:** 51% Fund 110 – Water Replacement  
49% Fund 210 - Sewer Replacement

**Comments:** There is a need to convert the Finance Safe and Computer rooms and IDF's for IT to keyless entry and add them to our existing BlueWave access system. This upgrade will allow dual access to doors through the use of a fob or a security code and will eliminate the need for keys. It will also provide improved control over access.

**Operations Impact:** Increased security, time savings, and eliminate the cost of replacing keys

### Project Spending Plan

Project Phase	Previous Spending	FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23 & Thereafter	Total
Planning							
Design							
Construction		\$20,000					\$20,000
<b>Total</b>	\$0	\$20,000	\$0	\$0	\$0	\$0	<b>\$20,000</b>

**FY 2018/19 Budget Request - \$20,000**

### Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2018							Jun 2019

## Capital Improvement Program HVAC System Upgrade

**Description:** Replace current HVAC system with a 3-ton ducted split system in the server room.



**Project Manager:** Dennis Bowman

**Department:** Warehouse/Purchasing

**Project:** 2019100013

**Funding Source:** 51% Fund 110 – Water Replacement  
49% Fund 210 - Sewer Replacement

**Comments:** The current heating, ventilation, and air conditioning (HVAC) system cannot sufficiently cool the District's servers in order to ensure proper functionality. A 3-ton ducted split system is required.

**Operations Impact:** None

### Project Spending Plan

Project Phase	Previous Spending	FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23 & Thereafter	Total
Planning							
Design							
Construction		\$20,000					\$20,000
<b>Total</b>	\$0	\$20,000	\$0	\$0	\$0	\$0	<b>\$20,000</b>

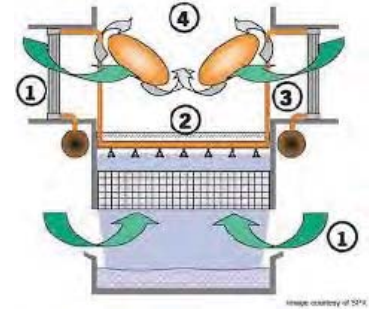
**FY 2018/19 Budget Request - \$20,000**

### Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2018							Jun 2019

## Capital Improvement Program Cooling Tower Media Replacement

**Description:** Remove and Replace Fill Media



**Project Manager:** Dennis Bowman

**Department:** Warehouse/Purchasing

**Project:** 2019100014

**Funding Source:** 51% Fund 110 – Water Replacement  
49% Fund 210 - Sewer Replacement

**Comments:** The existing fill media in the cooling tower is clogged and needs to be replaced.

**Operations Impact:** None

### Project Spending Plan

Project Phase	Previous Spending	FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23 & Thereafter	Total
Planning							
Design							
Construction		\$12,000					\$12,000
<b>Total</b>	\$0	\$12,000	\$0	\$0	\$0	\$0	<b>\$12,000</b>

**FY 2018/19 Budget Request - \$12,000**

### Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
Jul 2018							Jun 2019

## Capital Improvement Program Future Projects

**Description:** This amount is set-aside to cover projects planned within the next five years with a start date later than the current fiscal year..



**Project Manager:** Jason Hubbard

**Department:** Engineering

**Project:** TBA

**Funding Source:** See Below

<u>Project:</u>	<u>Amount:</u>	<u>Source:</u>
El Norte Parkway Water Line Extension	10,530,000	100% Fund 110 – Water Replacement
Rees Road 18" Water Line Relocation	5,780,000	100% Fund 110 – Water Replacement
Tres-Amigos Water Line Replacement Phase 1	2,395,000	100% Fund 110 – Water Replacement
Camino de Amigos Sewer Replacement	1,363,000	45% Fund 210 – Sewer Replacement, 55% Fund 220 – Sewer Capacity
Sage Canyon Tank Refurbishment	890,000	100% Fund 110 – Water Replacement
Deer Springs Pump Station Improvements	555,000	100% Fund 120 – Water Capacity
Deer Springs Tank No.2	520,000	100% Fund 120 – Water Capacity
Coronado Hills Tank Exterior Refurbishment	310,000	100% Fund 110 – Water Replacement
Coggan Pump Station - Generator	285,000	100% Fund 120 – Water Capacity
Richland I Tank Exterior Refurbishment	225,000	100% Fund 110 – Water Replacement
<b>Total</b>	<b>\$22,853,000</b>	

**Comments:** These projects are part of the District's capital budget beginning after fiscal year 2018-19.

**Operations Impact:** Normal Maintenance for infrastructure

### Project Spending Plan

Project Phase	Previous Spending	FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23 & Thereafter	Total
Planning			\$360,000	\$63,000		\$460,000	\$883,000
Design			\$220,000	\$270,000	\$70,000	\$1,245,000	\$1,805,000
Construction			\$1,130,000	\$1,015,000	\$1,905,000	\$16,115,000	\$20,165,000
<b>Total</b>	\$0	\$0	\$1,710,000	\$1,348,000	\$1,975,000	\$17,820,000	<b>\$22,853,000</b>

**FY 2018/19 Budget Request - \$22,853,000.00**

### Estimated Project Timeline

Project Approval	Planning		Design		Construction		Completion
	Begin	End	Begin	End	Begin	End	
					Jan 2020	Jun 2027	Jun 2027

**VALLECITOS WATER DISTRICT**

**2018-19 CAPITAL BUDGET - EASEMENTS, VEHICLES & EQUIPMENT SCHEDULE**

<b>EASEMENTS</b>						
Requesting Dept.	Description	Project #		<u>Funding Source:</u>		Total Cost
				Water	Sewer	
Development Services:						
	Caminito A Casa Waterline Easement	2019100015		\$ 50,000	\$ -	\$ 50,000
	Poutler Waterline Easement	2019100016		30,000		30,000
<b>TOTAL EASEMENTS</b>						<b>\$ 80,000</b>
<b>VEHICLES/MOBILE EQUIPMENT</b>						
Existing Vehicle #	Description	Project #	New or Replacement	<u>Funding Source:</u>		Total Cost
				Water	Sewer	
Construction:						
	Peterbilt 367 10 Wheeler Dump Truck & Construction Bed	2018100028	New	199,000		199,000
179	Ford F250 4X4 Regular Cab	2019100017	Replacement	23,500	22,500	46,000
229	Ford F550 - Small Dump Truck	2019100018	Replacement	40,800	39,200	80,000
230	Ford F550 - Small Dump Truck	2019100019	Replacement	40,800	39,200	80,000
198	Construction Crew Truck with Service Bed	2019100020	Replacement	96,900	93,100	190,000
Water Operations:						
234	Ford F-250 SuperCab	2019100021	Replacement	48,000		48,000
Meters:						
168	Ford Transit Connect XLT	2019100022	Replacement	31,000		31,000
<b>TOTAL VEHICLES</b>						<b>\$ 674,000</b>
<b>FACILITIES AND EQUIPMENT</b>						
Requesting Dept.	Description	Project #	New or Replacement	<u>Funding Source:</u>		Total Cost
				Water	Sewer	
Meters:						
	VGB Reading Unit	2019100024	New	24,000		24,000
<b>TOTAL FACILITIES AND EQUIPMENT</b>						<b>\$ 24,000</b>
<b>VEHICLES &amp; EQUIPMENT TOTAL</b>						<b>\$ 778,000</b>



**VALLECITOS WATER DISTRICT**

**DEBT SERVICE BUDGET FOR THE YEAR ENDING JUNE 30, 2019**

	Water		Wastewater		Total
	Replacement	Capacity	Replacement	Capacity	
<b>2005 COP &amp; 2015 Refunding</b>					
Outstanding principal as of July 1, 2018 <sup>(1)</sup>	\$ -	\$ 23,088,000	\$ -	\$ 22,227,000	\$ 45,315,000
2018/19 Principal Payments	-	(970,600)	-	(934,400)	(1,905,000)
Outstanding principal as of July 1, 2019	<u>\$ -</u>	<u>\$ 22,117,400</u>	<u>\$ -</u>	<u>\$ 21,292,600</u>	<u>\$ 43,410,000</u>
<b>2008 Private Placement</b> <sup>(2)</sup>					
Outstanding principal as of July 1, 2018	\$ -	\$ -	\$ -	\$ 4,200,000	\$ 4,200,000
2018/19 Principal Payments	-	-	-	(400,000)	(400,000)
Outstanding principal as of June 30, 2019	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 3,800,000</u>	<u>\$ 3,800,000</u>
<b>2012 Debt</b> <sup>(3)</sup>					
Outstanding principal as of July 1, 2018	\$ -	\$ -	\$ -	\$ 3,732,000	\$ 3,732,000
2018/19 Principal Payments	-	-	-	(741,000)	(741,000)
Outstanding principal as of June 30, 2019	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 2,991,000</u>	<u>\$ 2,991,000</u>
<b>2018/19 Debt Service Budget</b>					
2015 Revenue Refunding principal	\$ -	\$ 970,600	\$ -	\$ 934,400	\$ 1,905,000
2015 Revenue Refunding interest	-	1,125,490	-	1,083,510	2,209,000
2008 Private Placement - principal	-	-	-	400,000	400,000
2008 Private Placement - interest	-	-	-	108,000	108,000
2012 Debt - principal	-	-	-	741,000	741,000
2012 Debt - interest	-	-	-	67,000	67,000
Total 2018/19 Debt Service Budget	<u>\$ -</u>	<u>\$ 2,096,090</u>	<u>\$ -</u>	<u>\$ 3,333,910</u>	<u>\$ 5,430,000</u>
<b>Projected Debt Service Coverage Ratio</b> <sup>(4)</sup>					364%
Excluding Capital Facility Fees					253%
Excluding Capital Facility Fees and Property Tax					184%
Days of Operating Expenses in Unrestricted Cash and Investments					410

<sup>(1)</sup> The 18/19 principal payment on the refunding bonds is due to bondholders on July 1, 2018. The District is obligated to transfer the payment before June 30, 2018, to a restricted account maintained by the Trustee, and, therefore, was deducted from the projected July 1, 2018 balance presented in the Reserve Budget.

<sup>(2)</sup> Cash and corresponding amounts of debt were transferred from replacement funds to restricted capital facility funds to reduce deficit balances.

<sup>(2)</sup> The District and Union Bank of California executed an \$8 million tax-exempt private placement with variable rate interest tied to the LIBOR. The District has the option of changing the LIBOR term. The current term is six months. The current rate is 2.44403%. The proceeds partially restored a deficit balance in the restricted wastewater capacity fund from cash funding construction of the Encina Wastewater Authority Phase V expansion.

<sup>(3)</sup> The District issued bonds on December 21, 2012, to fund the increased capacity portions of San Marcos Interceptor and Linda Vista Sewer projects. The bonds have a 1.98% interest rate over the 10-year term.

<sup>(4)</sup> Per the 2005 Certificate of Participation official statement, the District is required to maintain a debt service coverage ratio of 1.15. Debt service coverage ratios are presented above inclusive and exclusive of capital facilities fees to demonstrate the District's ability to cover debt service above the required minimum. Capital facility fees are included in the official statement's definition of "Net Revenues".

## 2018-19 LONG-RANGE PLANNING



**VALLECITOS WATER DISTRICT**

**RESERVE PROJECTION FOR THE YEAR ENDING JUNE 30, 2019**

	110	Water	120	210	Wastewater	220	
	Replacement		Capacity	Replacement		Capacity	Total
Projected July 1, 2018 Balance	\$ 32,709,000		\$ (9,531,000)	\$ 51,305,000		\$ (7,220,000)	\$ 67,263,000
Revenues							
Operating Transfers	2,223,000		-	6,891,000		-	9,114,000
Capital Facility Fees	-		2,837,000	-		3,268,000	6,105,000
Property Tax	1,244,000		-	993,000		-	2,237,000
RDA pass-through	800,000		-	800,000		-	1,600,000
Investment Earnings	496,000		(139,000)	764,000		(135,000)	986,000
Available Balance	<u>37,472,000</u>		<u>(6,833,000)</u>	<u>60,753,000</u>		<u>(4,087,000)</u>	<u>87,305,000</u>
Less 18/19 Expenditures							
Encina Wastewater Authority Five Year Plan	-		-	4,791,000		4,000	4,795,000
Rock Springs Sewer Replacement	-		-	1,237,500		1,512,500	2,750,000
San Marcos Interceptor	-		-	489,800		1,090,200	1,580,000
Encina Wastewater Authority FY 17/18	-		-	636,790		190,210	827,000
Land Outfall Clearing & Access Road	-		-	790,000		-	790,000
Vehicles	479,700		-	194,300		-	674,000
Schoolhouse Tank Refurbishment	565,000		-	-		-	565,000
Expansion of the Men's Locker Room in Building B	286,100		-	273,900		-	560,000
North Twin Oaks Tank No. 1 Refurbishment	425,000		-	-		-	425,000
Stargaze Court and River Run Circle Water Line Reha	402,000		-	-		-	402,000
Montiel Gravity Outfall	-		-	180,900		221,100	402,000
Vulnerability Assessment Improvements	202,827		-	194,873		-	397,700
Audiovisual Upgrade	150,450		-	144,550		-	295,000
Asset Management Replacement Schedule	146,390		-	145,610		-	292,000
Solar Panel Inverter Replacement	145,350		-	139,650		-	285,000
Encina Parallel Land Outfall	-		-	-		270,000	270,000
Palos Vista Pump Station – Generator	259,000		-	-		-	259,000
OSHA Compliant Ladder Climb Safety Systems	200,000		-	-		-	200,000
Sewer Rehabilitation and Repairs 2019	-		-	188,000		-	188,000
MRF - Tertiary Influent Chamber Repairs	-		-	165,000		-	165,000
Via Vera Cruz Tank Hill Stabilization	157,600		-	400		-	158,000
Sewer Bypass Repair	-		-	142,000		-	142,000
District-wide Valve Replacement Program	120,000		-	-		-	120,000
Sewer Replacement and I&I Repairs	-		-	100,000		-	100,000
Miscellaneous Projects	589,980		25,000	573,520		26,000	1,214,500
Debt Service - 2012 Debt	-		-	-		808,000	808,000
Debt Service - 2008 Loan	-		-	-		506,000	506,000
Debt Service - 2015 Refunding	-		2,135,000	-		2,056,000	4,191,000
Less Total Expenditures	<u>4,130,127</u>		<u>2,160,000</u>	<u>10,387,723</u>		<u>6,683,350</u>	<u>23,361,200</u>
Projected June 30, 2019 Balance	33,341,873		(8,993,000)	50,365,277		(10,770,350)	<b>\$ 63,943,800</b>
Less Operating Reserves	<u>5,748,700</u>		<u>-</u>	<u>6,468,600</u>		<u>-</u>	<u>12,217,300</u>
Projected replacement reserve/restricted funds	<u>\$ 27,593,173</u>		<u>\$ (8,993,000)</u>	<u>\$ 43,896,677</u>		<u>\$ (10,770,350)</u>	<u>\$ 51,726,500</u>
Adopted replacement reserve floor	<u>\$ 7,428,200</u>			<u>\$ 15,665,900</u>			
Adopted replacement reserve ceiling	<u>\$ 32,224,700</u>			<u>\$ 48,081,900</u>			

See significant assumptions on page 97

**VALLECITOS WATER DISTRICT**

**RESERVE PROJECTION FOR THE YEAR ENDING JUNE 30, 2020**

	110	Water	120	210	Wastewater	220	Total
	Replacement		Capacity	Replacement		Capacity	
Projected July 1, 2019 Balance	\$ 33,341,873	\$ (8,993,000)		\$ 50,365,277	\$ (10,770,350)		\$ 63,943,800
Revenues							
Operating Transfers	1,529,000	-		6,404,000	-		7,933,000
Capital Facility Fees	-	2,646,000		-	3,273,000		5,919,000
Property Tax	1,271,000	-		1,014,000	-		2,285,000
RDA pass-through	800,000			800,000	-		1,600,000
Investment Earnings	509,000	(163,000)		742,000	(210,000)		878,000
Available Balance	<u>37,450,873</u>	<u>(6,510,000)</u>		<u>59,325,277</u>	<u>(7,707,350)</u>		<u>82,558,800</u>
Less 19/20 Expenditures							
Encina Wastewater Authority Five Year Plan	-	-		5,437,000	1,000		5,438,000
San Marcos Interceptor	-	-		1,426,000	3,174,000		4,600,000
Montiel Gravity Outfall	-	-		1,491,750	1,823,250		3,315,000
Meadowlark Tank No. 3	-	3,132,000		-	-		3,132,000
Future Projects	1,525,000	185,000		-	-		1,710,000
Encina Parallel Land Outfall	-	-		-	1,120,000		1,120,000
MRF: Conversion to Sodium Hypochlorite	-	-		950,000	-		950,000
High Point Pipeline	-	700,000		-	-		700,000
City of San Marcos Joint Projects	478,780	-		168,220	-		647,000
MRF - Biological Selector Improvements	-	-		520,000	-		520,000
NW Lake San Marcos Sewer Replacement and Lining	-	-		475,000	-		475,000
Las Posas 10-inch Water Main Replacement	415,000	-		-	-		415,000
Richland Invert Replacement	-	-		225,000	-		225,000
Rock Springs Valve Replacement	220,000	-		-	-		220,000
Asset Management Replacement Schedule	75,000	-		75,000	-		150,000
District-wide Valve Replacement Program	120,000	-		-	-		120,000
Miscellaneous Projects	120,000	-		65,000	1,000		186,000
Debt Service - 2012 Debt	-	-		-	777,000		777,000
Debt Service - 2008 Loan	-	-		-	502,000		502,000
Debt Service - 2015 Refunding	-	2,137,400		-	2,057,600		4,195,000
Less Total Expenditures	<u>2,953,780</u>	<u>6,154,400</u>		<u>10,832,970</u>	<u>9,455,850</u>		<u>29,397,000</u>
Projected June 30, 2020 Balance	34,497,093	(12,664,400)		48,492,307	(17,163,200)		\$ <b>53,161,800</b>
Less Operating Reserves	6,156,000	-		6,760,100	-		12,916,100
Projected replacement reserve/restricted funds	<u>\$ 28,341,093</u>	<u>\$(12,664,400)</u>		<u>\$ 41,732,207</u>	<u>\$ (17,163,200)</u>		<u>\$ 40,245,700</u>
Adopted replacement reserve floor	<u>\$ 7,941,800</u>			<u>\$ 18,157,700</u>			
Adopted replacement reserve ceiling	<u>\$ 33,810,600</u>			<u>\$ 53,450,600</u>			

<i>Debt service coverage</i>	340%
<i>Debt service coverage without cap fees</i>	232%
<i>Debt service coverage without cap fees or property tax &amp; RDA</i>	161%
<i>Days of Operating Expenses in Unrestricted Cash and Investments</i>	323

See significant assumptions on page 97

**VALLECITOS WATER DISTRICT**

**RESERVE PROJECTION FOR THE YEAR ENDING JUNE 30, 2021**

	110	Water	120	210	Wastewater	220	
	<u>Replacement</u>		<u>Capacity</u>	<u>Replacement</u>		<u>Capacity</u>	<u>Total</u>
Projected July 1, 2020 Balance	\$ 34,497,093		\$ (12,664,400)	\$ 48,492,307		\$ (17,163,200)	\$ 53,161,800
Revenues							
Operating Transfers	994,000		-	6,273,000		-	7,267,000
Capital Facility Fees	-		2,648,000	-		3,279,000	5,927,000
Property Tax	1,298,000		-	1,036,000		-	2,334,000
RDA pass-through	800,000		-	800,000		-	1,600,000
Debt Proceeds	-		1,030,000	-		6,507,750	7,537,750
Investment Earnings	528,000		(188,000)	731,000		(261,000)	810,000
Available Balance	<u>38,117,093</u>		<u>(9,174,400)</u>	<u>57,332,307</u>		<u>(7,637,450)</u>	<u>78,637,550</u>
Less 20/21 Expenditures							
Encina Parallel Land Outfall	-		-	-		6,000,000	6,000,000
Encina Wastewater Authority Five Year Plan	-		-	4,422,000		136,000	4,558,000
Future Projects	1,090,000		100,000	71,000		87,000	1,348,000
Richland Invert Replacement	-		-	1,160,000		-	1,160,000
Future Projects	-		-	1,080,000		-	1,080,000
MRF: Conversion to Sodium Hypochlorite	-		-	1,000,000		-	1,000,000
Meadowlark Tank No. 3	-		930,000	-		-	930,000
City of San Marcos Joint Projects	674,880		-	237,120		-	912,000
Montiel Gravity Outfall	-		-	344,250		420,750	765,000
Elser Lane Water Line Improvements	410,000		-	-		-	410,000
Asset Management Replacement Schedule	72,500		-	72,500		-	145,000
NW Lake San Marcos Sewer Replacement and Lining	-		-	100,000		-	100,000
Miscellaneous Projects	55,000		-	-		1,000	56,000
Debt Service - 2012 debt	-		-	-		777,000	777,000
Debt Service - 2008 Loan	-		-	-		496,000	496,000
Debt Service - 2015 Refunding	-		2,138,900	-		2,059,100	4,198,000
Less Total Expenditures	<u>2,302,380</u>		<u>3,168,900</u>	<u>8,486,870</u>		<u>9,976,850</u>	<u>23,935,000</u>
Projected June 30, 2021 Balance	35,814,713		(12,343,300)	48,845,437		(17,614,300)	<b>\$ 54,702,550</b>
Less Operating Reserves	<u>6,504,700</u>		<u>-</u>	<u>6,979,600</u>		<u>-</u>	<u>13,484,300</u>
Projected replacement reserve/restricted funds	<u>\$ 29,310,013</u>		<u>\$ (12,343,300)</u>	<u>\$ 41,865,837</u>		<u>\$ (17,614,300)</u>	<u>\$ 41,218,250</u>
Adopted replacement reserve floor	<u>\$ 8,878,900</u>			<u>\$ 17,844,700</u>			
Adopted replacement reserve ceiling	<u>\$ 35,486,700</u>			<u>\$ 55,910,700</u>			

<i>Debt service coverage</i>	313%
<i>Debt service coverage without cap fees</i>	205%
<i>Debt service coverage without cap fees or property tax &amp; RDA</i>	148%
<i>Days of Operating Expenses in Unrestricted Cash and Investments</i>	319

See significant assumptions on page 97

**VALLECITOS WATER DISTRICT**

**RESERVE PROJECTION FOR THE YEARS ENDING JUNE 30, 2022**

	110	Water	120	210	Wastewater	220	
	<u>Replacement</u>		<u>Capacity</u>	<u>Replacement</u>		<u>Capacity</u>	<u>Total</u>
Projected July 1, 2021 Balance	\$ 35,814,713		\$ (12,343,300)	\$ 48,845,437		\$ (17,614,300)	\$ 54,702,550
Revenues							
Operating Transfers	847,000		-	6,248,000		-	7,095,000
Capital Facility Fees	-		2,650,000	-		3,285,000	5,935,000
Property Tax	1,326,000		-	1,058,000		-	2,384,000
RDA pass-through	800,000		-	800,000		-	1,600,000
Debt Proceeds	-		-	-		5,423,500	5,423,500
Investment Earnings	533,000		(183,000)	767,000		(276,000)	841,000
Available Balance	<u>39,320,713</u>		<u>(9,876,300)</u>	<u>57,718,437</u>		<u>(9,181,800)</u>	<u>77,981,050</u>
Less 21/22 Expenditures							
Encina Parallel Land Outfall	-		-	-		5,000,000	5,000,000
Encina Wastewater Authority Five Year Plan	-		-	3,587,000		134,000	3,721,000
City of San Marcos Joint Projects	1,568,060		-	550,940		-	2,119,000
Future Projects	1,205,000		-	346,500		423,500	1,975,000
Elser Lane Water Line Improvements	1,275,000		-	-		-	1,275,000
Fire Services - Backflow Preventer Upgrades	50,000		-	-		-	50,000
Chlorine Contact Tank Expansion	-		-	-		1,000	1,000
Debt Service - 2012 Debt	-		-	-		778,000	778,000
Debt Service - 2008 Loan	-		-	-		490,000	490,000
Debt Service - 2021	-		-	-		1,072,000	1,072,000
Debt Service - 2015 Refunding	-		2,138,400	-		2,058,600	4,197,000
Less Total Expenditures	<u>4,098,060</u>		<u>2,138,400</u>	<u>4,484,440</u>		<u>9,957,100</u>	<u>20,678,000</u>
Projected June 30, 2022 Balance	35,222,653		(12,014,700)	53,233,997		(19,138,900)	<b>\$ 57,303,050</b>
Less Operating Reserves	6,839,500		-	7,226,600		-	14,066,100
Projected replacement reserve/restricted funds	<u>\$ 28,383,153</u>		<u>\$ (12,014,700)</u>	<u>\$ 46,007,397</u>		<u>\$ (19,138,900)</u>	<u>\$ 43,236,950</u>
Adopted replacement reserve floor	<u>\$ 9,694,300</u>			<u>\$ 18,659,400</u>			
Adopted replacement reserve ceiling	<u>\$ 37,570,000</u>			<u>\$ 59,294,400</u>			

<i>Debt service coverage</i>	273%
<i>Debt service coverage without cap fees</i>	182%
<i>Debt service coverage without cap fees or property tax &amp; RDA</i>	121%
<i>Days of Operating Expenses in Unrestricted Cash and Investments</i>	321

See significant assumptions on page 97

**VALLECITOS WATER DISTRICT**

**RESERVE PROJECTION FOR THE YEAR ENDING JUNE 30, 2023**

	110	Water	120	210	Wastewater	220	
	<u>Replacement</u>		<u>Capacity</u>	<u>Replacement</u>		<u>Capacity</u>	<u>Total</u>
Projected July 1, 2022 Balance	\$ 35,222,653		\$ (12,014,700)	\$ 53,233,997		\$ (19,138,900)	\$ 57,303,050
Revenues							
Operating Transfers	783,000		-	6,248,000		-	7,031,000
Capital Facility Fees	-		2,652,000	-		3,291,000	5,943,000
Property Tax	1,355,000		-	1,081,000		-	2,436,000
RDA pass-through	800,000		-	800,000		-	1,600,000
Investment Earnings	552,000		(224,000)	832,000		(340,000)	820,000
Available Balance	<u>38,712,653</u>		<u>(9,586,700)</u>	<u>62,194,997</u>		<u>(16,187,900)</u>	<u>75,133,050</u>
Less 22/23 Expenditures							
Coronado Hills Tank #2	-		6,000,000	-		-	6,000,000
Encina Wastewater Authority Five Year Plan	-		-	4,356,000		708,000	5,064,000
Chlorine Contact Tank Expansion	-		-	-		4,651,000	4,651,000
Future Projects	440,000		105,000	195,750		239,250	980,000
Old Questhaven Sewer Replacement	-		-	26,180		7,820	34,000
Debt Service - 2012 Debt	-		-	-		780,000	780,000
Debt Service - 2008 Loan	-		-	-		482,000	482,000
Debt Service - 2021	-		-	-		1,072,000	1,072,000
Debt Service - 2015 Refunding	-		2,139,400	-		2,059,600	4,199,000
Less Total Expenditures	<u>440,000</u>		<u>8,244,400</u>	<u>4,577,930</u>		<u>9,999,670</u>	<u>23,262,000</u>
Projected June 30, 2023 Balance	38,272,653		(17,831,100)	57,617,067		(26,187,570)	<b>\$ 51,871,050</b>
Less Operating Reserves	<u>7,222,200</u>		<u>-</u>	<u>7,463,300</u>		<u>-</u>	<u>14,685,500</u>
Projected replacement reserve/restricted funds	<u>\$ 31,050,453</u>		<u>\$ (17,831,100)</u>	<u>\$ 50,153,767</u>		<u>\$ (26,187,570)</u>	<u>\$ 37,185,550</u>
Adopted replacement reserve floor	<u>\$ 10,265,000</u>			<u>\$ 19,435,800</u>			
Adopted replacement reserve ceiling	<u>\$ 39,611,300</u>			<u>\$ 62,501,700</u>			

<i>Debt service coverage</i>	273%
<i>Debt service coverage without cap fees</i>	182%
<i>Debt service coverage without cap fees or property tax &amp; RDA</i>	120%
<i>Days of Operating Expenses in Unrestricted Cash and Investments</i>	279

See significant assumptions on page 97

**LONG RANGE RESERVE PROJECTION**

	<u>2023/24</u>	<u>2024/25</u>	<u>2025/26</u>	<u>2026/27</u>	<u>2027/28</u>
Projected Beginning Balance	\$ 51,871,000	\$ 52,987,000	\$ 55,307,000	\$ 58,079,000	\$ 61,311,000
Revenues					
Operating transfers	7,242,000	7,459,000	7,683,000	7,913,000	8,150,000
Capital facility fees	6,062,000	6,183,000	6,307,000	6,433,000	6,433,000
Property tax	2,488,000	2,541,000	2,596,000	2,652,000	2,709,000
Investment earnings	787,000	813,000	852,000	897,000	948,000
Capital outlay	(8,930,000)	(8,930,000)	(8,930,000)	(8,930,000)	(8,930,000)
Debt service	(6,533,000)	(5,746,000)	(5,736,000)	(5,733,000)	(5,722,000)
Projected Ending Balance	\$ 52,987,000	\$ 55,307,000	\$ 58,079,000	\$ 61,311,000	\$ 64,899,000
Operating reserves	<u>15,053,000</u>	<u>15,429,000</u>	<u>15,815,000</u>	<u>16,210,000</u>	<u>16,615,000</u>
Projected replacement reserve/restricted funds	<u>\$ 37,934,000</u>	<u>\$ 39,878,000</u>	<u>\$ 42,264,000</u>	<u>\$ 45,101,000</u>	<u>\$ 48,284,000</u>
Adopted replacement reserve floor	<u>\$ 30,758,000</u>	<u>\$ 33,770,000</u>	<u>\$ 36,438,000</u>	<u>\$ 38,944,000</u>	<u>\$ 39,170,000</u>
Adopted replacement reserve ceiling	<u>\$ 106,051,000</u>	<u>\$ 110,269,000</u>	<u>\$ 113,599,000</u>	<u>\$ 116,233,000</u>	<u>\$ 113,636,000</u>

*Significant Assumptions*

**Operating Transfers** - the result of operating activity transferred from the disbursements fund during the year. Operating transfers from FY 2023 through 2027 will increase by 3%.

**Rates** - Combined water and sewer rates for the average single family resident will increase by 4% each year, the first 2 years with water only increases, with 3% increase to sewer effective January 1, 2021, and a 4% sewer increase effective January 1, 2022.

**Operating Expense Assumptions** - Over the next five years, cost of wholesale water commodity will increase by 26% and wholesale fixed charges will increase 24%. Power, fuel, and chemical costs will increase by 4.5% per year, while most other operating costs will increase by 2% from year-to-year on average. The District will add 120 water accounts in 2018/19, and 120 in 2019/20 and every year thereafter. The District will add 120 sewer accounts in 2018/19 and approximately 120 in 2019/20 and each year thereafter.

**Capital Facility Fees** – The District will collect capacity charges for 300 water EDUs in fiscal year 2017/18 and between 325 and 350 EDUs in each fiscal year, 2018/19 through 2022/23. The District will collect capacity charges for 290 sewer EDUs in 2017/18 and between 300 and 325 sewer EDUs from 2018/19 through 2022/23. The rate per EDU will increase by 2.0% each year.

**Property Tax** - revenue from the 1% allocation will increase by 2.15% each year.

**Investment Earnings** - assumed at 1.502%.

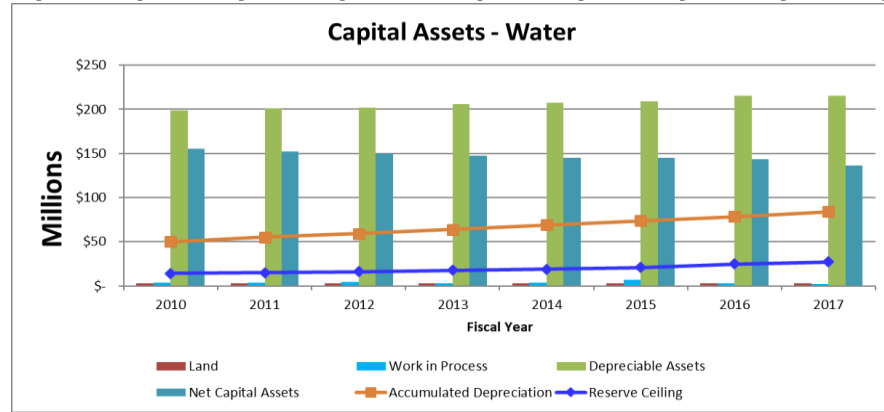
**Capital Outlay** scheduled after Fiscal Year 2022 will be expended evenly over six years.



Vallecitos Water District  
 Replacement Reserve Limits - Water System  
 For the 2018-19 Budget year

ENR Index (as of March 2018) 10959

Year Added	Original Cost	ENR Factor	2018 Costs	Year of Replacement										
				2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	
1957	\$ 923,038	15.14	\$ 13,971,787	450,703	450,703	450,703	450,703	450,703	450,703	450,703	450,703	450,703	450,703	-
1958	134,201	14.44	1,937,693	62,506	62,506	62,506	62,506	62,506	62,506	62,506	62,506	62,506	62,506	62,506
1963	2,067,687	12.16	25,149,591	811,277	811,277	811,277	811,277	811,277	811,277	811,277	811,277	811,277	811,277	811,277
1964	181,560	11.71	2,125,765	68,573	68,573	68,573	68,573	68,573	68,573	68,573	68,573	68,573	68,573	68,573
1965	256,377	11.29	2,893,548	93,340	93,340	93,340	93,340	93,340	93,340	93,340	93,340	93,340	93,340	93,340
1966	107,429	10.75	1,155,363	37,270	37,270	37,270	37,270	37,270	37,270	37,270	37,270	37,270	37,270	37,270
1967	122,039	10.20	1,245,275	40,170	40,170	40,170	40,170	40,170	40,170	40,170	40,170	40,170	40,170	40,170
1968	37,421	9.49	355,062	11,454	11,454	11,454	11,454	11,454	11,454	11,454	11,454	11,454	11,454	11,454
1969	39,742	8.64	343,209	11,071	11,071	11,071	11,071	11,071	11,071	11,071	11,071	11,071	11,071	11,071
1970	37,955	7.94	301,194	9,716	9,716	9,716	9,716	9,716	9,716	9,716	9,716	9,716	9,716	9,716
1971	90,080	6.93	624,407	20,142	20,142	20,142	20,142	20,142	20,142	20,142	20,142	20,142	20,142	20,142
1972	77,091	6.25	481,940	15,546	15,546	15,546	15,546	15,546	15,546	15,546	15,546	15,546	15,546	15,546
1973	169,427	5.78	979,816	31,607	31,607	31,607	31,607	31,607	31,607	31,607	31,607	31,607	31,607	31,607
1974	141,987	5.43	770,315	24,849	24,849	24,849	24,849	24,849	24,849	24,849	24,849	24,849	24,849	24,849
1975	230,530	4.95	1,142,124	36,843	36,843	36,843	36,843	36,843	36,843	36,843	36,843	36,843	36,843	36,843
1976	296,066	4.56	1,351,348	43,592	43,592	43,592	43,592	43,592	43,592	43,592	43,592	43,592	43,592	43,592
1977	303,133	4.25	1,289,610	41,600	41,600	41,600	41,600	41,600	41,600	41,600	41,600	41,600	41,600	41,600
1978	3,353,752	3.95	13,239,830	427,091	427,091	427,091	427,091	427,091	427,091	427,091	427,091	427,091	427,091	427,091
1979	933,794	3.65	3,407,742	109,927	109,927	109,927	109,927	109,927	109,927	109,927	109,927	109,927	109,927	109,927
1980	390,894	3.39	1,323,388	42,690	42,690	42,690	42,690	42,690	42,690	42,690	42,690	42,690	42,690	42,690
1981	397,944	3.10	1,233,683	-	39,796	39,796	39,796	39,796	39,796	39,796	39,796	39,796	39,796	39,796
1982	1,933,811	2.87	5,540,558	-	-	178,728	178,728	178,728	178,728	178,728	178,728	178,728	178,728	178,728
1983	3,393,243	2.70	9,145,733	-	-	-	295,024	295,024	295,024	295,024	295,024	295,024	295,024	295,024
1984	5,435,002	2.64	14,366,181	-	-	-	-	463,425	463,425	463,425	463,425	463,425	463,425	463,425
1985	675,452	2.61	1,764,548	-	-	-	-	-	56,921	56,921	56,921	56,921	56,921	56,921
1986	611,788	2.55	1,561,021	-	-	-	-	-	-	50,356	50,356	50,356	50,356	50,356
1987	799,052	2.49	1,987,474	-	-	-	-	-	-	-	64,112	64,112	64,112	64,112
1988	8,585,267	2.43	20,820,080	-	-	-	-	-	-	-	-	671,615	671,615	671,615
1989	1,572,104	2.37	3,733,193	-	-	-	-	-	-	-	-	-	-	120,426
1990	2,124,484	2.32	4,920,165	-	-	-	-	-	-	-	-	-	-	-
1991	1,777,396	2.27	4,028,642	-	-	-	-	-	-	-	-	-	-	-
1992	8,263,508	2.20	18,166,456	-	-	-	-	-	-	-	-	-	-	-
1993	3,727,844	2.10	7,841,352	-	-	-	-	-	-	-	-	-	-	-
1994	2,198,280	2.03	4,454,688	-	-	-	-	-	-	-	-	-	-	-
1995	4,438,365	2.00	8,890,521	-	-	-	-	-	-	-	-	-	-	-
1996	1,872,216	1.95	3,650,821	-	-	-	-	-	-	-	-	-	-	-
1997	3,075,659	1.88	5,785,470	-	-	-	-	-	-	-	-	-	-	-
1998	4,236,142	1.85	7,841,872	-	-	-	-	-	-	-	-	-	-	-
1999	1,216,379	1.81	2,200,082	-	-	-	-	-	-	-	-	-	-	-
2000	33,016,987	1.76	58,163,183	-	-	-	-	-	-	-	-	-	-	-
2001	1,599,452	1.73	2,763,423	-	-	-	-	-	-	-	-	-	-	-
2002	2,243,174	1.68	3,760,010	-	-	-	-	-	-	-	-	-	-	-
2003	8,148,602	1.64	13,339,108	-	-	-	-	-	-	-	-	-	-	-
2004	4,803,706	1.54	7,399,104	-	-	-	-	-	-	-	-	-	-	-
2005	4,945,039	1.47	7,278,113	-	-	-	-	-	-	-	-	-	-	-
2006	6,296,020	1.41	8,901,830	-	-	-	-	-	-	-	-	-	-	-
2007	9,123,102	1.38	12,550,850	-	-	-	-	-	-	-	-	-	-	-
2008	7,200,501	1.32	9,495,823	-	-	-	-	-	-	-	-	-	-	-
2009	32,403,360	1.28	41,436,222	-	-	-	-	-	-	-	-	-	-	-
2010	4,510,327	1.25	5,615,618	-	-	-	-	-	-	-	-	-	-	-
2011	2,053,547	1.21	2,481,237	-	-	-	-	-	-	-	-	-	-	-
2012	1,249,525	1.18	1,471,159	-	-	-	-	-	-	-	-	-	-	-
2013	3,574,225	1.16	4,141,898	-	-	-	-	-	-	-	-	-	-	-
2014	1,464,242	1.12	1,636,409	-	-	-	-	-	-	-	-	-	-	-
2015	1,950,156	1.09	2,131,846	-	-	-	-	-	-	-	-	-	-	-
2016	6,131,372	1.09	6,702,614	-	-	-	-	-	-	-	-	-	-	-
2017	-	1.07	-	-	-	-	-	-	-	-	-	-	-	-
	<b>\$ 196,941,476</b>		<b>\$ 391,289,994</b>	<b>2,389,968</b>	<b>2,429,764</b>	<b>2,608,492</b>	<b>2,903,515</b>	<b>3,366,941</b>	<b>3,423,862</b>	<b>3,474,217</b>	<b>3,538,329</b>	<b>4,209,945</b>	<b>3,879,667</b>	

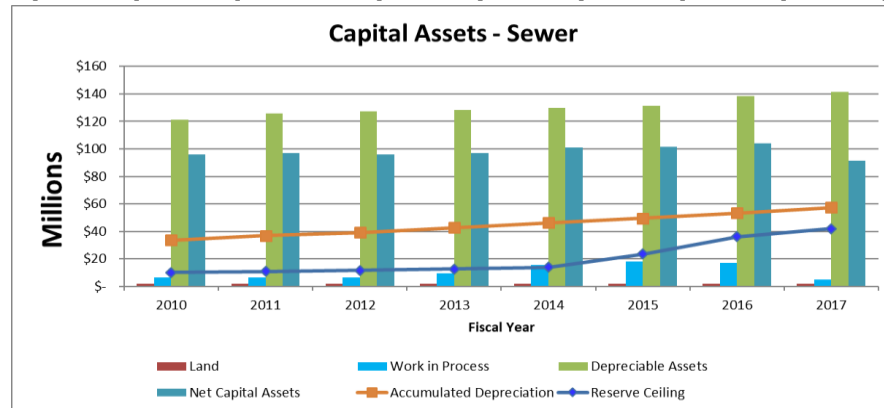


Three-Year Minimum Reserve Balance <-----\$7,428,224----->  
 Ten-Year Maximum Reserve Balance <-----\$32,224,700----->

Vallecitos Water District  
 Replacement Reserve Limits - Wastewater System  
 For the 2018-19 Budget year

ENR Index (as of March 2018)	10959
------------------------------	-------

Year Added	Original Cost	ENR Factor	2018 Costs	Year of Replacement											
				2019	2020	2021	2022	2023	2024	2025	2026	2027	2028		
1964	\$ 1,421,340	11.71	\$ 16,641,523	-	-	-	-	-	-	-	-	-	-	-	-
1965	394,116	11.29	4,448,113	-	-	-	-	-	-	-	-	-	-	-	-
1966	110,183	10.75	1,184,981	-	-	-	-	-	-	-	-	-	-	-	-
1967	41,816	10.20	426,687	-	-	-	-	-	-	-	-	-	-	-	-
1968	24,352	9.49	231,059	-	-	-	-	-	-	-	-	-	-	-	-
1969	28,784	8.64	248,577	15,536	-	-	-	-	-	-	-	-	-	-	-
1970	1,617,466	7.94	12,835,489	802,218	802,218	-	-	-	-	-	-	-	-	-	-
1971	53,601	6.93	371,545	23,222	23,222	23,222	-	-	-	-	-	-	-	-	-
1972	78,755	6.25	492,342	30,771	30,771	30,771	30,771	-	-	-	-	-	-	-	-
1973	149,279	5.78	863,297	53,956	53,956	53,956	53,956	53,956	-	-	-	-	-	-	-
1974	409,501	5.43	2,221,644	138,853	138,853	138,853	138,853	138,853	138,853	-	-	-	-	-	-
1975	189,378	4.95	938,243	58,640	58,640	58,640	58,640	58,640	58,640	58,640	-	-	-	-	-
1976	151,559	4.56	691,768	43,236	43,236	43,236	43,236	43,236	43,236	43,236	43,236	-	-	-	-
1977	394,775	4.25	1,679,480	104,967	104,967	104,967	104,967	104,967	104,967	104,967	104,967	104,967	-	-	-
1978	930,683	3.95	3,674,119	229,632	229,632	229,632	229,632	229,632	229,632	229,632	229,632	229,632	229,632	229,632	229,632
1979	697,184	3.65	2,544,269	159,017	159,017	159,017	159,017	159,017	159,017	159,017	159,017	159,017	159,017	159,017	159,017
1980	139,384	3.39	471,890	29,493	29,493	29,493	29,493	29,493	29,493	29,493	29,493	29,493	29,493	29,493	29,493
1981	192,586	3.10	597,044	37,315	37,315	37,315	37,315	37,315	37,315	37,315	37,315	37,315	37,315	37,315	37,315
1982	4,772,279	2.87	13,673,047	854,565	854,565	854,565	854,565	854,565	854,565	854,565	854,565	854,565	854,565	854,565	854,565
1985	5,149,309	2.61	13,452,033	840,752	840,752	840,752	840,752	840,752	840,752	840,752	840,752	840,752	840,752	840,752	840,752
1986	19,355,791	2.55	49,387,687	-	3,086,730	3,086,730	3,086,730	3,086,730	3,086,730	3,086,730	3,086,730	3,086,730	3,086,730	3,086,730	3,086,730
1987	381,136	2.49	947,996	-	-	59,250	59,250	59,250	59,250	59,250	59,250	59,250	59,250	59,250	59,250
1988	1,232,431	2.43	2,988,761	-	-	-	186,798	186,798	186,798	186,798	186,798	186,798	186,798	186,798	186,798
1989	2,001,761	2.37	4,753,478	-	-	-	-	297,092	297,092	297,092	297,092	297,092	297,092	297,092	297,092
1990	3,031,169	2.32	7,019,988	-	-	-	-	-	438,749	438,749	438,749	438,749	438,749	438,749	438,749
1991	1,864,618	2.27	4,226,339	-	-	-	-	-	-	264,146	264,146	264,146	264,146	264,146	264,146
1992	3,162,421	2.20	6,952,251	-	-	-	-	-	-	-	434,516	434,516	434,516	434,516	434,516
1993	13,446,724	2.10	28,284,577	-	-	-	-	-	-	-	-	-	1,767,786	1,767,786	1,767,786
1994	2,113,222	2.03	4,282,322	-	-	-	-	-	-	-	-	-	-	267,645	267,645
1995	3,276,618	2.00	6,563,417	-	-	-	-	-	-	-	-	-	-	-	-
1996	1,199,768	1.95	2,339,548	-	-	-	-	-	-	-	-	-	-	-	-
1997	988,964	1.88	1,860,291	-	-	-	-	-	-	-	-	-	-	-	-
1998	4,670,391	1.85	8,645,746	-	-	-	-	-	-	-	-	-	-	-	-
1999	1,047,495	1.81	1,894,619	-	-	-	-	-	-	-	-	-	-	-	-
2000	3,954,391	1.76	6,966,110	-	-	-	-	-	-	-	-	-	-	-	-
2001	2,705,995	1.73	4,675,232	-	-	-	-	-	-	-	-	-	-	-	-
2002	109,018	1.68	182,736	-	-	-	-	-	-	-	-	-	-	-	-
2003	9,260,829	1.64	15,159,803	-	-	-	-	-	-	-	-	-	-	-	-
2004	3,031,642	1.54	4,669,610	-	-	-	-	-	-	-	-	-	-	-	-
2005	2,984,298	1.47	4,392,292	-	-	-	-	-	-	-	-	-	-	-	-
2006	7,245,244	1.41	10,243,921	-	-	-	-	-	-	-	-	-	-	-	-
2007	(10,129,834)	1.38	(13,935,834)	-	-	-	-	-	-	-	-	-	-	-	-
2008	9,022,922	1.32	11,899,182	-	-	-	-	-	-	-	-	-	-	-	-
2009	37,476,922	1.28	47,924,106	-	-	-	-	-	-	-	-	-	-	-	-
2010	3,860,825	1.25	4,806,951	-	-	-	-	-	-	-	-	-	-	-	-
2011	1,487,477	1.21	1,797,272	-	-	-	-	-	-	-	-	-	-	-	-
2012	3,612,924	1.18	4,253,764	-	-	-	-	-	-	-	-	-	-	-	-
2013	(1,398,127)	1.15	(1,604,910)	-	-	-	-	-	-	-	-	-	-	-	-
2014	2,007,273	1.12	2,243,290	-	-	-	-	-	-	-	-	-	-	-	-
2015	(1,576,814)	1.09	(1,723,721)	-	-	-	-	-	-	-	-	-	-	-	-
2016	792,086	1.09	865,882	-	-	-	-	-	-	-	-	-	-	-	-
2017	1,984,324	1.07	2,115,801	-	-	-	-	-	-	-	-	-	-	-	-
	<u>\$ 151,150,234</u>		<u>\$312,765,659</u>	<u>3,422,174</u>	<u>6,493,369</u>	<u>5,750,400</u>	<u>5,913,976</u>	<u>6,180,297</u>	<u>6,565,090</u>	<u>6,690,384</u>	<u>7,066,259</u>	<u>8,790,810</u>	<u>8,953,488</u>		



Three-Year Minimum Reserve Balance <-----\$15,665,943----->

Eight-Year Maximum Reserve Balance <-----\$48,081,950----->