
CAWD/PBCSD RECLAMATION PROJECT

2018-19 BUDGET

Reviewed by Finance Officer's Work Group (FOWG) on April 25, 2018

Reviewed by Technical Advisory Committee (TAC) on May 2, 2018

Presented to Reclamation Management Committee (RMC) on May 9, 2018

**CAWD/PBCSD Reclamation Project
2018-19**

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**CAWD/PBCSD RECLAMATION PROJECT
2018-19 BUDGET SUMMARY**

| | Actual 2016-17 | Projected Actual 2017-18 | 2017-18 Budget | Proposed 2018-19 Budget | Inc/(Dec) 18-19 Proposed to | |
|--|-------------------|--------------------------------|-------------------|-------------------------------|-----------------------------|--------------|
| | | | | | Proj.Actual 17-18 | Budget 17-18 |
| User Revenue | | | | | | |
| Water Sales | 2,321,784 | 3,068,968 | 2,981,582 | 2,784,704 | -9.26% | -6.60% |
| Non Operating Share | 3,339,574 | 3,098,345 | 3,253,262 | 3,811,820 | 23.03% | 17.17% |
| Operating Expenses | | | | | | |
| Plant Operating Expenses | 1,565,510 | 1,669,302 | 2,111,170 | 2,010,583 | 20.44% | -4.76% |
| PBCSD Expenses | 314,191 | 422,404 | 614,000 | 500,000 | 18.37% | -18.57% |
| CAWD Admin. Expenses | 67,505 | 75,107 | 78,498 | 76,523 | 1.89% | -2.51% |
| MPWMD Admin. Expenses | 44,843 | 32,841 | 55,456 | 49,598 | 51.02% | -10.56% |
| PBCo / IRWUG Expenses | 45,254 | 44,493 | 46,480 | 48,000 | 7.88% | 3.27% |
| Potable Water Costs | 3,596 | 6,596 | 5,980 | 6,750 | 2.33% | 12.88% |
| MPWMD fee | 52,408 | 51,121 | 70,000 | 100,000 | 95.61% | 42.86% |
| | 2,093,307 | 2,301,865 | 2,981,583 | 2,791,454 | 21.27% | -6.38% |
| Operating Income/(Loss) before Amortization | | | | | | |
| | 3,568,052 | 3,865,448 | 3,253,261 | 3,805,070 | -1.56% | 16.96% |
| Non Operating Revenues/(Expenses) | | | | | | |
| Interest Income | 3,326 | 741 | 32,900 | 32,425 | 4275.68% | -1.44% |
| Bond Carrying Costs | (26,600) | (19,570) | (38,335) | (28,735) | 46.83% | -25.04% |
| Bank charges | (65) | (48) | (250) | (125) | 160.42% | -50.00% |
| LC Carrying Costs | (142,360) | (91,350) | (126,000) | (112,020) | 22.63% | -11.10% |
| COP Interest Expense | (94,973) | (117,852) | (119,000) | (174,440) | 48.02% | 46.59% |
| COP Principal Payment | (1,900,000) | (2,000,000) | (2,000,000) | (2,100,000) | 5.00% | 5.00% |
| Interest on Principal Advanced | (46,855) | (51,574) | (39,000) | (39,000) | -24.38% | 0.00% |
| Past LC fees/Bond Carry Cost pay: | (552,000) | (552,000) | (552,000) | (552,000) | 0.00% | 0.00% |
| Other Revenue/(Expense) | 0 | (82,954) | 0 | 0 | -100.00% | n/a |
| | (2,759,527) | (2,914,606) | (2,841,685) | (2,973,895) | 2.03% | 4.65% |
| Income/(Loss) before Capital | | | | | | |
| | 808,524 | 950,841 | 411,576 | 831,175 | -12.59% | 101.95% |
| Capital Budget | | | | | | |
| Purchases | 40,807 | 48,165 | 27,977 | 176,054 | 265.52% | 529.28% |
| Improvement Projects | 575,608 | 419,290 | 1,209,305 | 1,222,500 | 191.56% | 1.09% |
| | 616,415 | 467,455 | 1,237,282 | 1,398,554 | 199.18% | 13.03% |
| Net Income/(Loss) | | | | | | |
| | 192,109 | 483,386 | (825,706) | (567,379) | -217.38% | -31.29% |
| Contribution from Capital Reserve | 0 | 270,654 | 400,000 | 0 | | |
| Rollover from Prior Year Capital* | 0 | 425,705 | 425,705 | 567,379 | | |
| Balanced Net Income | | | | | | |
| | 192,109 | 1,179,745 | (1) | 0 | -100.00% | -100.00% |
| Amortization Exp | | | | | | |
| | 1,607,679 | 1,592,200 | 1,592,200 | 1,592,200 | 0.00% | 0.00% |

**CAWD/PBCSD RECLAMATION PROJECT
REVENUE PROJECTIONS
FY 2018-19**

| Revenue | Description | Acct. No. | Actual 16-17 | Estimated Actual 2017-18 | 2017-18 Budget | Proposed 2018-19 Budget | Comments |
|---------|--|-----------|------------------|--------------------------|------------------|-------------------------|--|
| | Interest Income - County | 99906 | 194 | 21 | 250 | 200 | O&M operating funds are on deposit with the County of Monterey. |
| | Interest Income - Bank of America | 99904 | 56 | 126 | 100 | 125 | Water sales revenue funds are invested in money market account |
| | Interest Income - (O&M Reserve & Cap Repl) | 99908 | 31,952 | 18,718 | 32,500 | 32,000 | Renewal & replacement funds invested in highly rated comm'l paper/notes w/ avg yield 2.5% (current balance \$1.1M) |
| | Gain (loss) on Securities | 99936 | (28,906) | (18,163) | 0 | 0 | |
| | Interest Income - Union Bank (O&M) | 99910 | 30 | 40 | 50 | 100 | Payables account |
| | Interest Income - Wells Fargo Escrow Acct | 99912 | 0 | 0 | 0 | 0 | |
| | Other Revenue | 99945 | 0 | 1,810 | 0 | 0 | Product return - Allied Fluids |
| | Water Sales (inc. late pmts) | 52000 | 2,321,784 | 3,068,968 | 2,981,582 | 2,784,704 | See schedule p. 17 |
| | Fixed Cost Charge | | 3,339,574 | 3,098,345 | 3,253,262 | 3,811,820 | |
| | MPWMD fees (8.325%) | 53000 | (52,408) | (51,121) | (70,000) | (100,000) | Increase due to resumption of Districts User Fee on Cal-Am bills |
| | TOTAL REVENUE | | 5,612,276 | 6,118,743 | 6,197,744 | 6,528,948 | 37.12% increase from 17-18 budget 45.27% increase from 17-18 Projected actual |

Note 1: The origin of the 8.325% charge is based on the premise that all users of water provided by the Reclamation Project will pay the exact same cost as they would pay for a similar quantity of potable water. The specific provision related to the MPWMD User Fee is contained in Section 5, Bond Caringy Costs, Operation and Maintenance Expenses and Operating Revenues, of the Financing Implementation Agreement Relating to Wastewater Reclamation Project dated Dec 1, 1992.

**CAWD/PBCSD Reclamation Project
Operations and Maintenance Budget
Fiscal Year 2018-19**

| ITEM | Acct No. | Actual 2016-17 | Estimated Actual 2017-18 | 2017-18 Budget | Proposed 2018-19 Budget | Comments/Notes |
|--|----------|----------------|--------------------------|----------------|-------------------------|--|
| | | | | | | |
| PLANT OPERATING EXPENSES: | | | | | | |
| Plant Salaries, Benefits & Overhead | | | | | | |
| Plant Superintendent | 61100 | 15,776 | 21,806 | 15,790 | 22,460 | Based on 275 hours |
| Laboratory Supervisor | 61200 | 25,017 | 39,135 | 27,170 | 40,310 | Based on 575 hours |
| Laboratory Technicians | 61300 | 42,441 | 55,210 | 65,790 | 55,865 | Based on 1,500 hours |
| Plant Operators | 61400 | 147,322 | 150,902 | 135,000 | 140,430 | Based on 3,000 hours |
| Maintenance Supervisor | 61450 | 10,770 | 1,479 | 26,540 | 11,415 | Based on 450 hours |
| Maintenance Mechanics | 61500 | 11,739 | 5,445 | 19,865 | 12,445 | Based on 500 hours |
| Plant Engineer | | 0 | 0 | 0 | 30,000 | Based on 500 hours - new hire |
| Differential PR | 62000 | 12,147 | 11,896 | 11,605 | 12,255 | |
| Payroll Taxes, Benefits & Indirect Overhead | 62100 | 143,196 | 142,936 | 150,881 | 162,590 | |
| TOTAL PLANT SALARIES | | 408,408 | 428,807 | 452,640 | 487,769 | COLA 3.0% |
| Energy Cost | | | | | | |
| Tertiary Operations | 63300 | 193,151 | 182,472 | 233,130 | 190,000 | 3% increase PG&E projected increase |
| MF/RO Pad | 63400 | 175,765 | 227,316 | 155,875 | 225,000 | Projected increase is followed by the first full season of 4 stage RO operation at higher operat |
| Secondary Costs - EQ Basin PD Blower | 63500 | 149,202 | 158,031 | 145,130 | 170,000 | Increase projected by running the MLR Pumps full time |
| SUBTOTAL | | 518,118 | 567,819 | 534,135 | 585,000 | |
| Chemical Costs: | | | | | | |
| Polyaluminum chloride | 64100 | 2,734 | 4,631 | 0 | 0 | Clearlogx offline |
| Clearlogx PAX-XL19 | | 0 | 12,278 | 0 | 0 | Clearlogx offline |
| Aluminum chlorohydrate | | 0 | 5,212 | 0 | 0 | Clearlogx offline |
| | | | | | | Maint wash-RO Quarterly scaling/fouling removal, increased cleaning due to membrane age, stages 3 & 4 need to be cleaned on a quarterly basis (\$7,000.00), Full RO CIP 2 times a year (\$9,400.00), MF cleaning twice a year (\$3,500.00) plus freight and taxes. |
| Clear-in-place chemicals | 64200 | 2,522 | 2,877 | 24,650 | 24,000 | 23,865 3% increase, H2O recommendation as part of the RO recovery project, purchase timing. |
| Antiscalant | 64400 | 19,887 | 21,556 | 23,170 | 23,865 | |
| Phenylarsine oxide | 64410 | 494 | 899 | 825 | 850 | 3% increase, Used for Chlorine residual titrations |
| Acetate buffer solution | 64420 | 0 | 62 | 260 | 250 | Used for Chlorine residual titrations |
| Iodine solution | 64430 | 204 | 280 | 205 | 250 | Used for Chlorine residual titrations |
| Chlorine | 65100 | 6,529 | 1,639 | 4,625 | 0 | Gas chlorine no longer in use at Facility |
| Citric Acid | 65160 | 7,265 | 6,914 | 4,930 | 7,000 | Used for MF Maintenance washes and monthly cleans. |
| Sulfuric Acid | 65170 | 6,111 | 27,303 | 17,000 | 28,400 | First year operating costs higher than expected. |
| Acetic Acid | 65180 | 592 | 766 | 1,030 | 1,030 | Used for Chlorine residual analyzers for discharge permit compliance |
| Sodium Bisulfite | 65200 | 71,016 | 55,000 | 55,000 | 55,000 | Dechlorinate MF maintenance washes and RO reject discharge to ocean. |
| Sodium Hypochlorite | 65250 | 3,901 | 20,000 | 35,000 | 20,000 | First full year of usage |
| Polymer | 65400 | 18,881 | 18,708 | 30,810 | 19,000 | used to coagulate/MF waste flow to dafi, and coagulant to MF |
| Gypsum | 65500 | 0 | 0 | 4,725 | 4,700 | Ph adjustment and adding alkalinity to RO product water |
| Miscellaneous chemicals | 65600 | 804 | 6,000 | 8,220 | 4,000 | Misc solutions for analyzer chemicals and calibration chemicals. |
| Potassium Hydroxide | 65700 | 63,426 | 124,521 | 123,240 | 110,000 | Ph adjustment and adding alkalinity to RO product water |
| Potassium iodate solution | | 405 | 659 | 0 | 700 | |
| Potassium iodide | | 1,835 | 2,628 | 0 | 3,000 | Chlorine Analyzers |
| Ammonia Hydroxide | 65800 | 67,239 | 70,000 | 82,160 | 70,000 | Used in chlorine channel to make chloramines |
| Phosphoric Acid | 65900 | 18,776 | 17,992 | 41,080 | 20,000 | Used for MF maintenance washes and monthly cleans |
| Low Mag Ferric | | 0 | 0 | 37,500 | 30,000 | Coag-floc/Dynasand filter system to remove phosphate prior to RO system |
| Enzymes | | 0 | 0 | 3,080 | 5,000 | Recommended by PWT for membrane cleaning |
| SUBTOTAL | | 292,622 | 399,928 | 497,510 | 427,045 | |

Operating Supplies - Plant

**CAWD/PBCSD Reclamation Project
Operations and Maintenance Budget
Fiscal Year 2018-19**

| ITEM | Acct No. | Actual 2016-17 | Estimated Actual 2017-18 | 2017-18 Budget | Proposed 2018-19 Budget | Comments/Notes |
|---|----------|----------------|--------------------------|----------------|-------------------------|--|
| | | | | | | |
| Repairs & Maintenance | | | | | | |
| Plant Pumps | 66100 | 87,148 | 47,785 | 90,000 | 90,000 | General Repairs, starting up coag-floc system and filters., other repairs as needed including motors |
| Laundry | 66190 | 111,430 | 20,000 | 20,000 | 20,000 | Pump rebuilds and any replacement pumps. |
| Lubricants/Packing | 66200 | 1,411 | 1,548 | 1,500 | 1,550 | 3% increase |
| Electrical Supplies | 66300 | 0 | 401 | 1,000 | 1,000 | Various lubricants for motors , pumps and valves. |
| Laboratory Supplies | 66400 | 5,604 | 5,000 | 5,000 | 5,000 | Electrical PM supplies and parts. |
| Paint | 66500 | 24,573 | 42,043 | 36,975 | 38,084 | 3% increase, All chemicals and reagents for laboratory and analysis for MF/RO |
| Postage (Office Supplies) | 66600 | 1,556 | 0 | 15,000 | 2,000 | Painting supplies and paint for MF/RO and tertiary |
| First Aid Supplies | 67000 | 84 | 0 | 200 | 200 | Shipping samples to outside laboratories |
| Janitorial Supplies | 67100 | 0 | 0 | 205 | 205 | Restocking of First Aid Kits |
| Tertiary Pump Alarm | 67300 | 0 | 37 | 300 | 300 | Cleaning supplies and supplies |
| Personnel Supplies | 67400 | 33 | 0 | 0 | 0 | |
| Hand Tools | 67600 | 5,001 | 0 | 1,030 | 1,030 | Nitile gloves, hand cleaner |
| Operating Supplies | 67700 | 11,961 | 2,327 | 7,200 | 7,200 | Misc tool replacement, speciality tools for MF. |
| Safety | 67800 | 2,358 | 936 | 0 | 0 | Safety supplies, pipe fittings, pipe and valve supplies, chemical feed pump tubing |
| Training | 67900 | 1,533 | 0 | 5,000 | 5,000 | Combined with account number 67700 Operating supplies Operator and/or safety training. |
| | | 152,689 | 120,077 | 184,440 | 172,599 | |
| Membrane Costs | | | | | | |
| Microfilter Membrane Modules | 67510 | 0 | 0 | 165,000 | 165,000 | 3% increase, Replace 160 MF membrane filters @\$980/each. |
| Annual Cartridge Filter Replacement | 66700 | 6,311 | 6,031 | 10,275 | 10,600 | 3% increase |
| RO Membrane Elements | 67500 | 0 | 0 | 0 | 0 | |
| Spare Parts & Outfitting | 66750 | 4,575 | 0 | 19,000 | 19,000 | Misc. parts for membrane install and listed spares by Mfr. |
| | | 10,886 | 6,031 | 194,275 | 194,600 | |
| Contractual Services: | | | | | | |
| Chemical Waste Disposal | 68100 | 190 | 0 | 2,000 | 1,000 | Removal of old chemicals (lab and MF/RO) |
| Plant Instrumentation | 68200 | 10,512 | 21,570 | 21,570 | 21,570 | Need a meters calibrate and online equipment calibrations |
| Fire Extinguisher Service | 68300 | 240 | 0 | 720 | 720 | 12 fire extinguisher-8 on Pad, 4 in Tertiary Building |
| Calibration | 68400 | 1,286 | 15,000 | 28,400 | 14,000 | DR2800 (\$1,500.00) annual service, Myron L. (\$500.00), Laboratory Balance \$600, Gallery \$1,500, IC3000 \$3,100, ICS1100 \$1,500, Weights \$500, TOC \$4550 (90% Reclamation) |
| Contract Laboratory Analysis | 68500 | 5,056 | 5,464 | 10,270 | 5,630 | 3% increase from Contract Laboratories |
| Contract Lab Staffing | 68600 | 22,770 | 0 | 0 | 0 | |
| Gypsum Injection System Maintenance/Lease | 68700 | 0 | 0 | 0 | 0 | |
| Contract Painting | 68700 | 33,425 | 0 | 25,000 | 0 | Moved to capital project list Tertiary Building Painting |
| System software/IT consulting | 68710 | 6,967 | 4,896 | 54,950 | 49,950 | MF/RO Proprietary software-PLCs, etc. Remote monitoring of increased recovery upgrade (\$18,000/yr), LIMS (\$5,000/yr), Ion Chromatograph tech support (\$10,000/yr), TOC annual (\$2,100/yr). |
| SAR Equipment Maintenance | 68720 | 10,633 | 4,334 | 2,000 | 3,500 | Maintenance and repair Ion Chromatograph |
| Hoist Certification | 68730 | 364 | 0 | 360 | 1,000 | Traveling Hoist (2) on MF, Tertiary Building (2 ton Hoist) |
| Alarm-Tertiary Equipment | 68900 | 130 | 0 | 200 | 200 | |
| Alarm - Chlorine Equipment | 68910 | 211 | 250 | 3,500 | 3,500 | Service of new chemical pumps at SBS Building |
| Ion Chromatograph- Annual Maintenance | 69400 | 0 | 0 | 0 | 0 | |
| Demolition | | 0 | 0 | 0 | 0 | |
| Clearlogx rent | | 91,000 | 70,000 | 84,000 | 0 | |
| SUBTOTAL | | 182,786 | 121,514 | 232,970 | 101,070 | |
| Fees & Permits | | | | | | |
| | 69100 | 0 | 2,222 | 200 | 12,500 | Laboratory SWRCB-ELAP FEE, Percentage of annual discharge permit fee |

**CAWD/PBCSD Reclamation Project
Operations and Maintenance Budget
Fiscal Year 2018-19**

| ITEM | Acct No. | Actual 2016-17 | Estimated Actual 2017-18 | 2017-18 Budget | Proposed 2018-19 Budget | Comments/Notes |
|--------------------------|----------|----------------|--------------------------|----------------|-------------------------|-----------------------|
| Engineering Fees: | | | | | | |
| Consulting | 69200 | 0 | 22,904 | 15,000 | 30,000 | Trussell Technologies |
| Membrane Cleaning Pilot | 69250 | 0 | 0 | 0 | 0 | |
| Disposal expense | 69350 | 0 | 0 | 0 | 0 | |
| Demolition expense | 69360 | 0 | 0 | 0 | 0 | |
| SUBTOTAL | | 0 | 22,904 | 15,000 | 30,000 | |

TOTAL PLANT OPERATING EXPENSES
1,565,510 **1,669,302** **2,111,170** **2,010,583**
 4.76% decrease from 17-18 budget
 20.44% increase from 17-18 Projected actual

**PEBBLE BEACH COM SVC DISTRICT
DISTRIBUTION SYSTEM ADMIN & MAINT:**

| Salaries, Benefits & Overhead | Acct No. | Actual 2016-17 | Estimated Actual 2017-18 | 2017-18 Budget | Proposed 2018-19 Budget | Comments/Notes |
|------------------------------------|----------|----------------|--------------------------|----------------|-------------------------|---|
| General Manager | 71000 | 0 | 0 | 0 | 0 | |
| Principal Engineer | 71100 | 7,689 | 7,423 | 7,000 | 7,500 | |
| Deputy General Manager/CFO | 71200 | 1,293 | 1,559 | 2,000 | 2,000 | |
| Senior Accountant | 71300 | 3,808 | 3,365 | 5,500 | 5,000 | |
| Administrative Assistant | 71400 | 256 | 358 | 500 | 500 | Calculated based on the estimated PBCSD Admin staff time for CAWD/PBCSD Reclamation Project related duties. Prior years experience and next year's anticipated activities are used in the prediction of the FY 2018-19 estimated hours. |
| Finance & Info Sys Coordinator | 71500 | 469 | 561 | 500 | 500 | The payroll taxes, benefits and indirect overhead is calculated at 50% as agreed upon by the project participants. |
| Associate Engineers | 71600 | 5,203 | 6,750 | 4,000 | 6,000 | |
| Intern (Temp Employee) | | 374 | 382 | 500 | 500 | |
| Payroll Taxes, Benefits & Overhead | 71800 | 9,359 | 10,199 | 10,000 | 11,000 | |
| SUBTOTAL | | 28,451 | 30,597 | 30,000 | 33,000 | |

Other Administrative & General Expenses:

| | | | | | | |
|---|-------|---------------|---------------|---------------|---------------|--|
| Insurance - Property & Liability | 72100 | 3,782 | 5,173 | 6,000 | 6,000 | Property (\$3,000); Liability (\$3,000) |
| Insurance - Earthquake | 72100 | 11,595 | 15,490 | 13,500 | 15,500 | FL Reservoir (\$10,500) & Poppy Hills Storage Tank (\$5,000) |
| Insurance - Forest Lake Dam Failure Liability | 72100 | 5,072 | 5,061 | 6,000 | 6,000 | \$10M Coverage |
| Directors Fees | 72200 | 350 | 300 | 500 | 500 | 2 Directors x 5 meetings/year x \$50 per meeting |
| SUBTOTAL | | 20,799 | 26,024 | 26,000 | 28,000 | |

Total Administrative & General Expenses

| | | | | | | |
|--|--|---------------|---------------|---------------|---------------|--|
| | | 49,250 | 56,621 | 56,000 | 61,000 | |
|--|--|---------------|---------------|---------------|---------------|--|

Distribution System O&M Expenses:

| Salaries, Benefits & Overhead: | Acct No. | Actual 2016-17 | Estimated Actual 2017-18 | 2017-18 Budget | Proposed 2018-19 Budget | Comments/Notes |
|------------------------------------|----------|----------------|--------------------------|----------------|-------------------------|---|
| Field Maintenance Supervisor | 73000 | 7,296 | 12,395 | 7,000 | 8,000 | Calculated based on the estimated time to operate and maintain the Forest Lake Reservoir, 8 miles of distribution pipeline, the 2.5M gallon storage tank, and the Viscaino Rd emergency potable water station. The payroll taxes, benefits and indirect overhead is calculated at 50% as agreed upon by the project participants. |
| Maintenance Technicians | 73100 | 44,035 | 41,524 | 49,500 | 50,000 | |
| Payroll taxes, Benefits & Overhead | 73200 | 25,665 | 26,959 | 28,500 | 29,000 | |
| SUBTOTAL | | 76,996 | 80,878 | 85,000 | 87,000 | |

Energy & Utilities:

| | | | | | | |
|--|-------|--------|--------|--------|--------|--|
| Potable Water Pump Station - PG&E | 74000 | 469 | 511 | 500 | 1,000 | PBCSD pumps will be turned on during emergencies. PBCSD pays a minimum of 1% of the cost per agreement with CalAm. |
| SCADA System: DSL ATM / Telemetry Analog Voice Data Chgs | 74200 | 11,167 | 11,250 | 12,000 | 12,000 | Monthly AT&T fee for lines between Potable Water Pump Station, Forest Lake, CAWD and PBCSD. Annual maint agmt for Cell Phone Alarm System at Poppy Hills Storage Tank and 4th Fairway (New 17/18) |
| Wireless Alarm Sys Chg (Mission) | 74300 | 347 | 550 | 500 | 500 | |
| Forest Lake Treatment Facility (PG&E) | 74400 | 35,001 | 32,968 | 40,000 | 40,000 | Budgeted based on previous experience and anticipated operations |
| Forest Lake Eyewash Station (CalAm) | 74500 | 752 | 852 | 1,000 | 1,000 | Budgeted based on previous experience. |
| Poppy Hill Booster Pump Station - PG&E | 74600 | 1,167 | 1,316 | 1,500 | 1,500 | Budgeted based on previous experience & anticipated operations. |

**CAWD/PBCSD Reclamation Project
Operations and Maintenance Budget
Fiscal Year 2018-19**

| ITEM | Acct No. | Actual 2016-17 | Estimated | | Proposed 2018-19 Budget | Comments/Notes |
|--|----------|----------------|----------------|----------------|-------------------------|---|
| | | | Actual 2017-18 | 2017-18 Budget | | |
| Catholic Protection | 74700 | 1,060 | 1,109 | 1,500 | 1,500 | 2 Locations: Forest Lake Rd & Whitman Ln; Budgeted based on previous experience & anticipated operations. |
| Source Water / Dry Weather Diversion | | 49,964 | 48,556 | 57,000 | 57,500 | |
| Reclamation Source Water | | 0 | 580 | 2,000 | 1,000 | NEW 17/18: Materials/Suppl for Recl Wells (MPCC #8 / MPCC #9) |
| 4th Fairway Dry Weather Diversion Facility | | 411 | 500 | 1,000 | 1,000 | NEW 17/18: Materials/Suppl for 4th Fairway |
| Water Treatment Cost | | 0 | 70,000 | 70,000 | 85,000 | NEW 17/18: (2) @ MPCC / (1) 4th Fairway |
| SUBTOTAL | | 411 | 71,080 | 73,000 | 87,000 | |
| Distribution System - Other O.&M. Expenses: | | | | | | |
| Other professional services | 75200 | 616 | 675 | 1,000 | 1,000 | Mgmt Comm Mtg Attendance & Minutes |
| Permits | 75300 | 13,108 | 15,118 | 14,000 | 16,000 | 1. SWRCB-Master Permit (\$3,000) 2. DSOD-Forest Lake Operating Permit (\$11,500) 3. MBUAPCD-Viscaino Generator (\$200) / Environ Health-Viscaino Fuel Tank Permit (\$500) (PBCSD: 2/5 & CalAm: 3/5) |
| Fuel | 75500 | 1,967 | 1,976 | 2,500 | 2,500 | Estimated fuel use for vehicles and Viscaino Rd. pump station |
| Training & Tuitions | 75600 | 2,495 | 2,919 | 2,500 | 2,500 | Maint & safety programs (regist/materials/travel/misc exp. Memberships & Certif) |
| SCADA System software/IT consulting | 75800 | 1,573 | 1,248 | 8,000 | 3,500 | Maintenance, diagnostic & consulting svcs related to SCADA |
| Reclamation Line Distribution Sys | 76300 | 32,564 | 2,500 | 15,000 | 15,000 | Meter calibration & Other General Repairs and Maintenance (R&M); Materials & Supplies |
| Viscaino Rd/Poppy Hills Pump Station | 76400 | 2,912 | 1,647 | 3,000 | 3,000 | Prev Maint / Annual load bank test / Underground tank leak detect & general R&M |
| Call Out Mileage Expense | 76500 | 1,250 | 1,534 | 2,000 | 2,000 | For Maintenance work performed after hours, weekends & holidays |
| Forest Lake Reservoir - R & M | 76600 | 1,479 | 14,995 | 30,000 | 30,000 | General/Emergency repairs to Forest Lake |
| Poppy Hills Storage Tank (2.5 million gallon) | 76700 | 7,374 | 360 | 150,000 | 10,000 | Catholic Protect Inspection (every 3 yrs) \$500 / Tank (1.5-Point) Inspection (every 3 yrs) \$500 / Annual Cleaning Svc (done Feb/Mar) \$1,000; Misc R&M |
| Rescue & Safety Supplies & Equipment | 76800 | 0 | 0 | 2,000 | 1,000 | Protective gear & equip/life vests/rescue discs/safety signs/ misc supplies |
| Forest Lake Chemicals | 76900 | 34,585 | 41,102 | 52,000 | 50,000 | Sulfuric Acid / Hypochlorite Tablets. Actual costs will be based on water usage. |
| RF Communication Sys for SCADA | 77000 | 0 | 746 | 1,000 | 1,000 | Supplies & equipment purchases/ Repairs and Maintenance |
| Forest Lake Reservoir - Materials & Supplies | 77100 | 26,040 | 22,808 | 25,000 | 25,000 | Supplies & Equip; Deployable Probe, Water Sampling, Piezometer, Misc other (\$8,000); Gopher Cntrl (\$2,000) / Insecticides (\$15,000) |
| SUBTOTAL | | 125,964 | 107,628 | 308,000 | 162,500 | |
| Professional Fees - PBCSD: | | | | | | |
| General Engineering - Consulting | 76000 | 11,606 | 57,641 | 35,000 | 45,000 | Gen Consult; Annual DSOD Report; For Lk Semi-Annual Monument Settlement Survey; GIS Development |
| Other Professional Services | 75200 | 0 | 0 | 0 | 0 | |
| SUBTOTAL | | 11,606 | 57,641 | 35,000 | 45,000 | |
| Total Distribution System O.&M. Expenses | | 264,941 | 365,783 | 558,000 | 439,000 | |
| TOTAL PBCSD EXPENSES..... | | 314,191 | 422,404 | 614,000 | 500,000 | 18.57% decrease from 17-18 budget 18.37% increase from 17-18 Projected actual |

CAWD ADMIN & GENERAL EXPENSES

**CAWD/PBCSD Reclamation Project
Operations and Maintenance Budget
Fiscal Year 2018-19**

| ITEM | Acct No. | Actual 2016-17 | Estimated Actual 2017-18 | 2017-18 Budget | Proposed 2018-19 Budget | Comments/Notes |
|---|----------|----------------|--------------------------|----------------|-------------------------|--|
| | | | | | | |
| ADMINISTRATIVE SALARIES | | | | | | |
| General Manager | 81000 | 1,931 | 1,128 | 2,260 | 1,160 | based on 15 hours |
| Project Accountant | 81200 | 7,415 | 11,196 | 13,815 | 11,530 | based on 225 hours |
| Engineering Associate | 81100 | 1,465 | 3,394 | 820 | 3,495 | based on 50 hours |
| Admin. Services Coordinator/Scanner | 81400 | 3,309 | 4,877 | 1,110 | 2,100 | based on 50 hours |
| Payroll Taxes, Benefits & Overhead | 82100 | 7,060 | 10,297 | 9,003 | 10,606 | |
| SUBTOTAL | | 21,179 | 30,892 | 27,008 | 28,892 | COLA 3.0% |
| Administrative & General Expenses: | | | | | | |
| Office Supplies & Postage | 84000 | 61 | 0 | 300 | 0 | |
| Audit & Consulting Fees | 84100 | 17,500 | 17,500 | 18,000 | 18,000 | |
| Employee training | 84200 | 0 | 0 | 0 | 0 | |
| Directors Fees | 85000 | 1,100 | 850 | 1,200 | 1,200 | 4 meetings @ \$300 |
| Legal Notices | 89400 | 0 | 0 | 0 | 0 | |
| Legal Fees | 89400 | 1,545 | 18 | 2,500 | 0 | |
| Insurance Expense | 89500 | 26,119 | 25,847 | 29,490 | 28,432 | Estimate 10% over 17-18 projected actual |
| SUBTOTAL | | 46,326 | 44,215 | 51,490 | 47,632 | |
| TOTAL CAWD EXPENSES | | 67,505 | 75,107 | 78,498 | 76,523 | 2.51% decrease from 17-18 budget 1.89% increase from 17-18 Projected actual |

MONTEREY PENINSULA WATER MANAGEMENT DISTRICT

ADMINISTRATIVE EXPENSES:

Administrative Salaries, Benefits & Overhead

| | | | | | | |
|------------------------------------|-------|---------------|---------------|---------------|---------------|-----------------------------------|
| General Manager | 91000 | 3,483 | 1,000 | 1,543 | 1,005 | based on 10 hours |
| Administrative Services Manager | 91200 | 4,380 | 2,345 | 3,618 | 2,710 | based on 35 hours |
| Accountant | 91300 | 3,040 | 2,470 | 3,811 | 2,520 | based on 65 hours |
| IT Manager | 91500 | 4,760 | 2,200 | 3,395 | 2,300 | based on 40 hours |
| Payroll Taxes, Benefits & Overhead | 92100 | 7,832 | 4,008 | 6,184 | 4,268 | |
| SUBTOTAL | | 23,495 | 12,023 | 18,551 | 12,803 | per Salar Survey - 54.3% increase |

Administrative & General Expenses

| | | | | | | |
|-----------------------------------|-------|---------------|---------------|---------------|---------------|---|
| CAL-Am Water Meter Service Charge | 94300 | 20,807 | 20,319 | 31,105 | 30,745 | 8" meter - assumes 20% increase |
| Legal Fees | 99400 | 541 | 500 | 2,500 | 2,500 | |
| Annual software maintenance | 99410 | 3,219 | 3,500 | 3,300 | 3,550 | Software annual maintenance fee - assumes |
| SUBTOTAL | | 24,566 | 24,319 | 36,905 | 36,795 | |

TOTAL MPWMD EXPENSES

| | | | |
|---------------|---------------|---------------|---------------|
| 44,843 | 32,841 | 55,456 | 49,598 |
|---------------|---------------|---------------|---------------|

10.56% decrease from 17-18 budget
51.02% increase from 17-18 Projected actual

PBCo / IRWUG Representative

| | | | | | | |
|------------------------------------|-------|------------------|------------------|------------------|------------------|---|
| Payroll Taxes, Benefits & Overhead | 77520 | 31,167 | 30,643 | 32,010 | 33,000 | Salary 06-01-18 \$120,000 plus 10% bonus x 3% |
| R&D Water Sources | 99965 | 14,087 | 13,851 | 14,470 | 15,000 | PTEB @ 45.2% |
| SUB TOTAL | | 2,037,302 | 2,244,148 | 2,905,603 | 2,684,704 | |

POTABLE WATER COSTS

| | | | |
|--------------|--------------|--------------|--------------|
| 3,596 | 6,596 | 5,980 | 6,750 |
|--------------|--------------|--------------|--------------|

Project 100% reclaimed water use - no potable - includes service chgs/surcharges - 15% increase

TOTAL OPERATING EXPENSES

| | | | |
|------------------|------------------|------------------|------------------|
| 2,040,898 | 2,250,744 | 2,911,583 | 2,691,454 |
|------------------|------------------|------------------|------------------|

7.56% decrease from 17-18 budget
19.58% increase from 17-18 Projected actual

CAWD/PBCSD Reclamation Project
 Monthly Budget Projections
 2018-19

| ACCT No. | 5 yr avg | | | | | | | | | | | | ANNUAL BUDGET 17-18 |
|----------|----------|----------|----------|----------|---------|---------|---------|---------|---------|---------|----------|-----------|---------------------|
| | Jul-17 | Aug-17 | Sep-17 | Oct-17 | Nov-17 | Dec-17 | Jan-18 | Feb-18 | Mar-18 | Apr-18 | May-18 | Jun-18 | |
| | 14.06% | 13.50% | 11.48% | 10.04% | 1.94% | 2.30% | 2.40% | 1.21% | 4.17% | 8.44% | 15.06% | 15.42% | |
| 35200 | 927,610 | 890,506 | 756,976 | 662,383 | 127,804 | 151,578 | 158,037 | 79,706 | 274,848 | 556,566 | 993,574 | 1,016,936 | 6,596,523 |
| 2225 | (14,062) | (13,500) | (11,475) | (10,041) | (1,937) | (2,298) | (2,396) | (1,208) | (4,167) | (8,437) | (15,062) | (15,416) | (100,000) |
| | 913,548 | 877,006 | 745,500 | 652,341 | 125,867 | 149,281 | 155,642 | 78,497 | 270,681 | 548,129 | 978,512 | 1,001,520 | 6,496,523 |
| 61100 | 3,158 | 3,032 | 2,577 | 2,255 | 435 | 516 | 538 | 271 | 936 | 1,895 | 3,383 | 3,462 | 22,460 |
| 61200 | 5,668 | 5,442 | 4,626 | 4,048 | 781 | 926 | 966 | 487 | 1,680 | 3,401 | 6,072 | 6,214 | 40,310 |
| 61300 | 7,856 | 7,542 | 6,411 | 5,610 | 1,082 | 1,284 | 1,338 | 675 | 2,328 | 4,713 | 8,414 | 8,612 | 55,865 |
| 61400 | 19,747 | 18,958 | 16,115 | 14,101 | 2,721 | 3,227 | 3,364 | 1,697 | 5,851 | 11,848 | 21,152 | 21,649 | 140,430 |
| 61450 | 1,605 | 1,541 | 1,310 | 1,146 | 221 | 262 | 273 | 138 | 476 | 963 | 1,719 | 1,760 | 11,415 |
| 61500 | 1,750 | 1,680 | 1,428 | 1,250 | 241 | 286 | 298 | 150 | 519 | 1,050 | 1,874 | 1,919 | 12,445 |
| 62000 | 4,219 | 4,050 | 3,443 | 3,012 | 581 | 689 | 719 | 362 | 1,250 | 2,531 | 4,519 | 4,625 | 30,000 |
| 62100 | 1,723 | 1,654 | 1,406 | 1,231 | 237 | 282 | 294 | 148 | 511 | 1,034 | 1,846 | 1,889 | 12,255 |
| | 22,864 | 21,949 | 18,658 | 16,326 | 3,150 | 3,736 | 3,895 | 1,965 | 6,774 | 13,718 | 24,489 | 25,065 | 162,590 |
| | 68,591 | 65,847 | 55,973 | 48,979 | 9,450 | 11,208 | 11,686 | 5,894 | 20,323 | 41,154 | 73,468 | 75,196 | 487,769 |
| 63300 | 26,718 | 25,649 | 21,803 | 19,079 | 3,681 | 4,366 | 4,552 | 2,296 | 7,916 | 16,031 | 28,618 | 29,291 | 190,000 |
| 63400 | 31,640 | 30,374 | 25,820 | 22,593 | 4,359 | 5,170 | 5,390 | 2,719 | 9,375 | 18,984 | 33,890 | 34,687 | 225,000 |
| 63500 | 23,906 | 22,949 | 19,508 | 17,070 | 3,294 | 3,906 | 4,073 | 2,054 | 7,083 | 14,343 | 25,606 | 26,208 | 170,000 |
| | 82,263 | 78,973 | 67,131 | 58,742 | 11,334 | 13,442 | 14,015 | 7,069 | 24,374 | 49,358 | 88,113 | 90,185 | 585,000 |
| | - | - | - | - | - | - | - | - | - | - | - | - | 0 |
| | - | - | - | - | - | - | - | - | - | - | - | - | 0 |
| | - | - | - | - | - | - | - | - | - | - | - | - | 0 |
| | 3,375 | 3,240 | 2,754 | 2,410 | 465 | 551 | 575 | 290 | 1,000 | 2,025 | 3,615 | 3,700 | 24,000 |
| | 3,356 | 3,222 | 2,739 | 2,396 | 462 | 548 | 572 | 288 | 994 | 2,014 | 3,595 | 3,679 | 23,865 |
| | 120 | 115 | 98 | 85 | 16 | 20 | 20 | 10 | 35 | 72 | 128 | 131 | 850 |
| | 35 | 34 | 29 | 25 | 5 | 6 | 6 | 3 | 10 | 21 | 38 | 39 | 250 |
| | 35 | 34 | 29 | 25 | 5 | 6 | 6 | 3 | 10 | 21 | 38 | 39 | 250 |
| | - | - | - | - | - | - | - | - | - | - | - | - | 0 |

CAWD/PBCSD Reclamation Project
 Monthly Budget Projections
 2018-19

| ACCT No. | Jul-17 | Aug-17 | Sep-17 | Oct-17 | Nov-17 | Dec-17 | Jan-18 | Feb-18 | Mar-18 | Apr-18 | May-18 | Jun-18 | ANNUAL BUDGET 17-18 |
|---------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------------|
| Citric Acid | 984 | 945 | 803 | 703 | 136 | 161 | 168 | 85 | 292 | 591 | 1,054 | 1,079 | 7,000 |
| Sulfuric Acid | 3,994 | 3,834 | 3,259 | 2,852 | 550 | 653 | 680 | 343 | 1,183 | 2,396 | 4,278 | 4,378 | 28,400 |
| Acetic Acid | 145 | 139 | 118 | 103 | 20 | 24 | 25 | 12 | 43 | 87 | 155 | 159 | 1,030 |
| Sodium Bisulfite | 7,734 | 7,425 | 6,311 | 5,523 | 1,066 | 1,264 | 1,318 | 665 | 2,292 | 4,640 | 8,284 | 8,479 | 55,000 |
| Sodium Hypochlorite | 2,812 | 2,700 | 2,295 | 2,008 | 387 | 460 | 479 | 242 | 833 | 1,687 | 3,012 | 3,083 | 20,000 |
| Polymer | 2,672 | 2,565 | 2,180 | 1,908 | 368 | 437 | 455 | 230 | 792 | 1,603 | 2,862 | 2,929 | 19,000 |
| Gypsum | 661 | 634 | 539 | 472 | 91 | 108 | 113 | 57 | 196 | 397 | 708 | 725 | 4,700 |
| Miscellaneous chemicals | 562 | 540 | 459 | 402 | 77 | 92 | 96 | 48 | 167 | 337 | 602 | 617 | 4,000 |
| Potassium Hydroxide | 15,468 | 14,850 | 12,623 | 11,046 | 2,131 | 2,528 | 2,635 | 1,329 | 4,583 | 9,281 | 16,568 | 16,958 | 110,000 |
| Potassium iodate solution | 98 | 94 | 80 | 70 | 14 | 16 | 17 | 8 | 29 | 59 | 105 | 108 | 700 |
| Potassium iodide | 422 | 405 | 344 | 301 | 58 | 69 | 72 | 36 | 125 | 253 | 452 | 462 | 3,000 |
| Ammonia Hydroxide | 9,843 | 9,450 | 8,033 | 7,029 | 1,556 | 1,608 | 1,677 | 846 | 2,917 | 5,906 | 10,543 | 10,791 | 70,000 |
| Phosphoric Acid | 2,812 | 2,700 | 2,295 | 2,008 | 387 | 460 | 479 | 242 | 833 | 1,687 | 3,012 | 3,083 | 20,000 |
| Low Mag Ferric | 4,219 | 4,050 | 3,443 | 3,012 | 581 | 689 | 719 | 362 | 1,250 | 2,531 | 4,519 | 4,625 | 30,000 |
| Enzymes | 703 | 675 | 574 | 502 | 97 | 115 | 120 | 60 | 208 | 422 | 753 | 771 | 5,000 |
| | 60,052 | 57,649 | 49,005 | 42,881 | 8,274 | 9,813 | 10,231 | 5,160 | 17,793 | 36,031 | 64,322 | 65,834 | 427,045 |
| Repairs & Maintenance | 12,656 | 12,150 | 10,328 | 9,037 | 1,744 | 2,068 | 2,156 | 1,087 | 3,750 | 7,594 | 13,556 | 13,875 | 90,000 |
| Plant Pumps | 2,812 | 2,700 | 2,295 | 2,008 | 387 | 460 | 479 | 242 | 833 | 1,687 | 3,012 | 3,083 | 20,000 |
| Laundry | 218 | 209 | 178 | 156 | 30 | 36 | 37 | 19 | 65 | 131 | 233 | 239 | 1,550 |
| Lubricants/Packing | 141 | 135 | 115 | 100 | 19 | 23 | 24 | 12 | 42 | 84 | 151 | 154 | 1,000 |
| Electrical Supplies | 703 | 675 | 574 | 502 | 97 | 115 | 120 | 60 | 208 | 422 | 753 | 771 | 5,000 |
| Laboratory Supplies | 5,355 | 5,141 | 4,370 | 3,824 | 738 | 875 | 912 | 460 | 1,587 | 3,213 | 5,736 | 5,871 | 38,084 |
| Paint | 281 | 270 | 230 | 201 | 39 | 46 | 48 | 24 | 83 | 169 | 301 | 308 | 2,000 |
| Postage | 28 | 27 | 23 | 20 | 4 | 5 | 5 | 2 | 8 | 17 | 30 | 31 | 200 |
| First Aid Supplies | 29 | 28 | 24 | 21 | 4 | 5 | 5 | 2 | 9 | 17 | 31 | 32 | 205 |
| Janitorial Supplies | 42 | 40 | 34 | 30 | 6 | 7 | 7 | 4 | 12 | 25 | 45 | 46 | 300 |
| Tertiary Pump Alarm | - | - | - | - | - | - | - | - | - | - | - | - | 0 |
| Personnel Supplies | 145 | 139 | 118 | 103 | 20 | 24 | 25 | 12 | 43 | 87 | 155 | 159 | 1,030 |
| Hand Tools | 145 | 139 | 118 | 103 | 20 | 24 | 25 | 12 | 43 | 87 | 155 | 159 | 1,030 |
| Operating Supplies | 1,012 | 972 | 826 | 723 | 139 | 165 | 172 | 87 | 300 | 607 | 1,084 | 1,110 | 7,200 |
| Safety | - | - | - | - | - | - | - | - | - | - | - | - | 0 |
| Training | 703 | 675 | 574 | 502 | 97 | 115 | 120 | 60 | 208 | 422 | 753 | 771 | 5,000 |
| | 24,271 | 23,300 | 19,806 | 17,331 | 3,344 | 3,966 | 4,135 | 2,086 | 7,191 | 14,563 | 25,997 | 26,608 | 172,599 |

CAWD/PBCSD Reclamation Project
 Monthly Budget Projections
 2018-19

| ACCT No. | Jul-17 | Aug-17 | Sep-17 | Oct-17 | Nov-17 | Dec-17 | Jan-18 | Feb-18 | Mar-18 | Apr-18 | May-18 | Jun-18 | ANNUAL BUDGET 17-18 |
|---|---------|---------|---------|---------|--------|--------|--------|--------|--------|---------|---------|---------|---------------------|
| Microfilter Membrane Modules | 23,202 | 22,274 | 18,934 | 16,568 | 3,197 | 3,791 | 3,953 | 1,994 | 6,875 | 13,921 | 24,852 | 25,437 | 165,000 |
| Annual Cartridge Filter Replacement | 1,491 | 1,431 | 1,216 | 1,064 | 205 | 244 | 254 | 128 | 442 | 894 | 1,597 | 1,634 | 10,600 |
| RO Membrane Elements | - | - | - | - | - | - | - | - | - | - | - | - | 0 |
| Spare Parts & Outfitting | 2,672 | 2,565 | 2,180 | 1,908 | 368 | 437 | 455 | 230 | 792 | 1,603 | 2,862 | 2,929 | 19,000 |
| | 27,365 | 26,270 | 22,331 | 19,541 | 3,770 | 4,472 | 4,662 | 2,351 | 8,108 | 16,419 | 29,311 | 30,000 | 194,600 |
| Chemical Waste Disposal | 141 | 135 | 115 | 100 | 19 | 23 | 24 | 12 | 42 | 84 | 151 | 154 | 1,000 |
| Plant Instrumentation | 3,033 | 2,912 | 2,475 | 2,166 | 418 | 496 | 517 | 261 | 899 | 1,820 | 3,249 | 3,325 | 21,570 |
| Fire Extinguisher Service | 101 | 97 | 83 | 72 | 14 | 17 | 17 | 9 | 30 | 61 | 108 | 111 | 720 |
| Calibration | 1,969 | 1,890 | 1,607 | 1,406 | 271 | 322 | 335 | 169 | 583 | 1,181 | 2,109 | 2,158 | 14,000 |
| Contract Laboratory Analysis | 792 | 760 | 646 | 565 | 109 | 129 | 135 | 68 | 235 | 475 | 848 | 868 | 5,630 |
| Gypsum Injection System Maintenance/Lease | - | - | - | - | - | - | - | - | - | - | - | - | 0 |
| Contract Painting | - | - | - | - | - | - | - | - | - | - | - | - | 0 |
| System software/IT consulting | - | - | - | - | - | - | - | - | - | - | - | - | 0 |
| SAR Equipment Maintenance | 7,024 | 6,743 | 5,732 | 5,016 | 968 | 1,148 | 1,197 | 604 | 2,081 | 4,214 | 7,524 | 7,700 | 49,950 |
| Hoist Certification | 492 | 472 | 402 | 351 | 68 | 80 | 84 | 42 | 146 | 295 | 527 | 540 | 3,500 |
| Alarm - Tertiary | 141 | 135 | 115 | 100 | 19 | 23 | 24 | 12 | 42 | 84 | 151 | 154 | 1,000 |
| Alarm - Chlorine | - | - | - | - | - | - | - | - | - | - | - | - | 0 |
| Equipment Rent - Ion Chromatograph | 28 | 27 | 23 | 20 | 4 | 5 | 5 | 2 | 8 | 17 | 30 | 31 | 200 |
| Demolition | 492 | 472 | 402 | 351 | 68 | 80 | 84 | 42 | 146 | 295 | 527 | 540 | 3,500 |
| Clerlogy rental | 14,072 | 13,509 | 11,483 | 10,048 | 1,939 | 2,299 | 2,397 | 1,209 | 4,169 | 8,443 | 15,073 | 15,427 | 101,070 |
| Fees & Permits (MBUAPCD) | 1,758 | 1,687 | 1,434 | 1,255 | 242 | 287 | 299 | 151 | 521 | 1,055 | 1,883 | 1,927 | 12,500 |
| Consulting | 4,219 | 4,050 | 3,443 | 3,012 | 581 | 689 | 719 | 362 | 1,250 | 2,531 | 4,519 | 4,625 | 30,000 |
| | 5,976 | 5,737 | 4,877 | 4,268 | 823 | 977 | 1,018 | 514 | 1,771 | 3,586 | 6,401 | 6,552 | 42,500 |
| | 282,590 | 271,286 | 230,607 | 201,790 | 38,935 | 46,177 | 48,145 | 24,282 | 83,730 | 169,554 | 302,685 | 309,802 | 2,010,583 |
| District Engineer | 1,055 | 1,012 | 861 | 753 | 145 | 172 | 180 | 91 | 312 | 633 | 1,130 | 1,156 | 7,500 |
| Deputy General Manager/CFO | 281 | 270 | 230 | 201 | 39 | 46 | 48 | 24 | 83 | 169 | 301 | 308 | 2,000 |
| Senior Accountant | 703 | 675 | 574 | 502 | 97 | 115 | 120 | 60 | 208 | 422 | 753 | 771 | 5,000 |

CAWD/PBCSD Reclamation Project
 Monthly Budget Projections
 2018-19

| ACCT No. | Jul-17 | Aug-17 | Sep-17 | Oct-17 | Nov-17 | Dec-17 | Jan-18 | Feb-18 | Mar-18 | Apr-18 | May-18 | Jun-18 | ANNUAL BUDGET 17-18 |
|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------------|
| | | | | | | | | | | | | | |
| Administrative Assistant | 70 | 67 | 57 | 50 | 10 | 11 | 12 | 6 | 21 | 42 | 75 | 77 | 500 |
| Finance & Info Sys Coordinator | 70 | 67 | 57 | 50 | 10 | 11 | 12 | 6 | 21 | 42 | 75 | 77 | 500 |
| Associate & Assistant Engineers | 844 | 810 | 689 | 602 | 116 | 138 | 144 | 72 | 250 | 506 | 904 | 925 | 6,000 |
| Intern (Temp Emp) | 70 | 67 | 57 | 50 | 10 | 11 | 12 | 6 | 21 | 42 | 75 | 77 | 500 |
| PR Taxes, Benefits & Overhead | 1,547 | 1,485 | 1,262 | 1,105 | 213 | 253 | 264 | 133 | 458 | 928 | 1,657 | 1,696 | 11,000 |
| | 4,040 | 4,455 | 3,787 | 3,314 | 639 | 758 | 791 | 399 | 1,375 | 2,784 | 4,970 | 5,087 | 33,000 |
| Directors Fees | 70 | 67 | 57 | 50 | 10 | 11 | 12 | 6 | 21 | 42 | 75 | 77 | 500 |
| Insurance - Property & Liability | 844 | 810 | 689 | 602 | 116 | 138 | 144 | 72 | 250 | 506 | 904 | 925 | 6,000 |
| Insurance - Earthquake | 2,180 | 2,092 | 1,779 | 1,556 | 300 | 356 | 371 | 187 | 646 | 1,308 | 2,335 | 2,390 | 15,500 |
| Insurance - FL Dam Failure Liability | 844 | 810 | 689 | 602 | 116 | 138 | 144 | 72 | 250 | 506 | 904 | 925 | 6,000 |
| | 3,937 | 3,780 | 3,213 | 2,812 | 542 | 643 | 671 | 338 | 1,167 | 2,362 | 4,217 | 4,317 | 28,000 |
| Salaries, Benefits & Overhead: | | | | | | | | | | | | | |
| Field Maintenance Supervisor | 1,125 | 1,080 | 918 | 803 | 155 | 184 | 192 | 97 | 333 | 675 | 1,205 | 1,233 | 8,000 |
| Maintenance Technicians | 7,031 | 6,750 | 5,738 | 5,021 | 969 | 1,149 | 1,198 | 604 | 2,083 | 4,219 | 7,531 | 7,708 | 50,000 |
| PR Taxes, Benefits & O.H. | 4,078 | 3,915 | 3,328 | 2,912 | 562 | 666 | 695 | 350 | 1,208 | 2,447 | 4,368 | 4,471 | 29,000 |
| | 12,234 | 11,745 | 9,984 | 8,736 | 1,686 | 1,999 | 2,084 | 1,051 | 3,625 | 7,340 | 13,104 | 13,412 | 87,000 |
| Potable Water Pump Station - PG&E | 141 | 135 | 115 | 100 | 19 | 23 | 24 | 12 | 42 | 84 | 151 | 154 | 1,000 |
| SCADA System: DSL ATM/Telemetry | 1,687 | 1,620 | 1,377 | 1,205 | 232 | 276 | 287 | 145 | 500 | 1,012 | 1,807 | 1,850 | 12,000 |
| Wireless Alarm Sys Chg (Mission) | 70 | 67 | 57 | 50 | 10 | 11 | 12 | 6 | 21 | 42 | 75 | 77 | 500 |
| Forest Lake Treatment Facility (PG&E) | 5,625 | 5,400 | 4,590 | 4,017 | 775 | 919 | 958 | 483 | 1,667 | 3,375 | 6,025 | 6,166 | 40,000 |
| Forest Lake Eyewash Station (CalAm) | 141 | 135 | 115 | 100 | 19 | 23 | 24 | 12 | 42 | 84 | 151 | 154 | 1,000 |
| Poppy Hill Booster Pump Station - PG&E | 211 | 202 | 172 | 151 | 29 | 34 | 36 | 18 | 62 | 127 | 226 | 231 | 1,500 |
| Catholic Protection | 211 | 202 | 172 | 151 | 29 | 34 | 36 | 18 | 62 | 127 | 226 | 231 | 1,500 |
| | 8,086 | 7,762 | 6,598 | 5,774 | 1,114 | 1,321 | 1,378 | 695 | 2,396 | 4,851 | 8,661 | 8,864 | 57,500 |
| Reclamation Source Water | 141 | 135 | 115 | 100 | 19 | 23 | 24 | 12 | 42 | 84 | 151 | 154 | 1,000 |
| Water Treatment Cost | 11,953 | 11,475 | 9,754 | 8,535 | 1,647 | 1,953 | 2,036 | 1,027 | 3,542 | 7,172 | 12,803 | 13,104 | 85,000 |
| 4th Fairway Dry Weather Diversion | 141 | 135 | 115 | 100 | 19 | 23 | 24 | 12 | 42 | 84 | 151 | 154 | 1,000 |
| | 12,234 | 11,745 | 9,984 | 8,736 | 1,686 | 1,999 | 2,084 | 1,051 | 3,625 | 7,340 | 13,104 | 13,412 | 87,000 |

CAWD/PBCSD Reclamation Project
 Monthly Budget Projections
 2018-19

| ACCT No. | Jul-17 | Aug-17 | Sep-17 | Oct-17 | Nov-17 | Dec-17 | Jan-18 | Feb-18 | Mar-18 | Apr-18 | May-18 | Jun-18 | ANNUAL BUDGET 17-18 |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------------|
| Other Professional Svcs | | | | | | | | | | | | | |
| Permits | 141 | 135 | 115 | 100 | 19 | 23 | 24 | 12 | 42 | 84 | 151 | 154 | 1,000 |
| Fuel | 2,250 | 2,160 | 1,836 | 1,607 | 310 | 368 | 383 | 193 | 667 | 1,350 | 2,410 | 2,467 | 16,000 |
| Training & Tuitions | 352 | 337 | 287 | 251 | 48 | 57 | 60 | 30 | 104 | 211 | 377 | 385 | 2,500 |
| SCADA System software/IT consulting | 352 | 337 | 287 | 251 | 48 | 57 | 60 | 30 | 104 | 211 | 377 | 385 | 2,500 |
| Lab Contract Svcs/Water Quality Analysis | 492 | 472 | 402 | 351 | 68 | 80 | 84 | 42 | 146 | 295 | 527 | 540 | 3,500 |
| Reclamation Line Distribution Sys | - | - | - | - | - | - | - | - | - | - | - | - | 0 |
| Viscaino Rd/Poppy Hills Pump Station | 2,109 | 2,025 | 1,721 | 1,506 | 291 | 345 | 359 | 181 | 625 | 1,266 | 2,259 | 2,312 | 15,000 |
| Call Out Mileage Expense | 422 | 405 | 344 | 301 | 58 | 69 | 72 | 36 | 125 | 253 | 452 | 462 | 3,000 |
| Forest Lake Reservoir - R & M | 281 | 270 | 230 | 201 | 39 | 46 | 48 | 24 | 83 | 169 | 301 | 308 | 2,000 |
| Poppy Hills Storage Tank (2.5 million gallon) | 4,219 | 4,050 | 3,443 | 3,012 | 581 | 689 | 719 | 362 | 1,250 | 2,531 | 4,519 | 4,625 | 30,000 |
| Rescue & Safety Supplies & Equipment | 1,406 | 1,350 | 1,148 | 1,004 | 194 | 230 | 240 | 121 | 417 | 844 | 1,506 | 1,542 | 10,000 |
| Forest Lake Chemicals | 141 | 135 | 115 | 100 | 19 | 23 | 24 | 12 | 42 | 84 | 151 | 154 | 1,000 |
| RF Communication Sys for SCADA | 7,031 | 6,750 | 5,738 | 5,021 | 969 | 1,149 | 1,198 | 604 | 2,083 | 4,219 | 7,531 | 7,708 | 50,000 |
| Forest Lake Reservoir - Materials & Supplies | 141 | 135 | 115 | 100 | 19 | 23 | 24 | 12 | 42 | 84 | 151 | 154 | 1,000 |
| | 3,516 | 3,375 | 2,869 | 2,510 | 484 | 574 | 599 | 302 | 1,042 | 2,109 | 3,766 | 3,854 | 25,000 |
| | 22,851 | 21,937 | 18,647 | 16,317 | 3,148 | 3,734 | 3,893 | 1,963 | 6,771 | 13,711 | 24,476 | 25,051 | 162,500 |
| Consulting | 6,328 | 6,075 | 5,164 | 4,519 | 872 | 1,034 | 1,078 | 544 | 1,875 | 3,797 | 6,778 | 6,937 | 45,000 |
| Other Professional Services | 6,328 | 6,075 | 5,164 | 4,519 | 872 | 1,034 | 1,078 | 544 | 1,875 | 3,797 | 6,778 | 6,937 | 45,000 |
| | 58,077 | 55,753 | 47,393 | 41,471 | 8,002 | 9,490 | 9,895 | 4,990 | 17,208 | 34,846 | 62,206 | 63,669 | 500,000 |
| General Manager | 163 | 157 | 133 | 117 | 22 | 27 | 28 | 14 | 48 | 98 | 175 | 179 | 1,160 |
| Project Accountant | 1,621 | 1,557 | 1,323 | 1,158 | 223 | 265 | 276 | 139 | 480 | 973 | 1,737 | 1,778 | 11,530 |
| Engineering Assistant | 491 | 472 | 401 | 351 | 68 | 80 | 84 | 42 | 146 | 295 | 526 | 539 | 3,495 |
| Secretary/Finance Tech. | 295 | 283 | 241 | 211 | 41 | 48 | 50 | 25 | 87 | 177 | 316 | 324 | 2,100 |
| Payroll Taxes & Benefits | 1,491 | 1,432 | 1,217 | 1,065 | 205 | 244 | 254 | 128 | 442 | 895 | 1,598 | 1,635 | 10,606 |
| Indirect Overhead | 4,063 | 3,900 | 3,315 | 2,901 | 560 | 664 | 692 | 349 | 1,204 | 2,438 | 4,352 | 4,454 | 28,892 |
| Office Supplies & Postage | - | - | - | - | - | - | - | - | - | - | - | - | 0 |
| Audit & Consulting Fees | 2,531 | 2,430 | 2,066 | 1,807 | 349 | 414 | 431 | 217 | 750 | 1,519 | 2,711 | 2,775 | 18,000 |
| Employee Training | - | - | - | - | - | - | - | - | - | - | - | - | 0 |

CAWD/PBCSD Reclamation Project
 Monthly Budget Projections
 2018-19

| ACCT No. | Jul-17 | Aug-17 | Sep-17 | Oct-17 | Nov-17 | Dec-17 | Jan-18 | Feb-18 | Mar-18 | Apr-18 | May-18 | Jun-18 | ANNUAL BUDGET 17-18 |
|--------------------------------|---------|---------|---------|---------|--------|--------|--------|--------|---------|---------|---------|---------|---------------------|
| Directors Fees | 169 | 162 | 138 | 120 | 23 | 28 | 29 | 14 | 50 | 101 | 181 | 185 | 1,200 |
| Legal Notices | - | - | - | - | - | - | - | - | - | - | - | - | 0 |
| Legal Fees | - | - | - | - | - | - | - | - | - | - | - | - | 0 |
| Insurance Expense | 3,998 | 3,838 | 3,263 | 2,855 | 551 | 653 | 681 | 344 | 1,185 | 2,399 | 4,282 | 4,383 | 28,432 |
| | 6,698 | 6,430 | 5,466 | 4,783 | 923 | 1,095 | 1,141 | 576 | 1,985 | 4,019 | 7,174 | 7,343 | 47,632 |
| | 10,761 | 10,330 | 8,781 | 7,684 | 1,483 | 1,758 | 1,833 | 925 | 3,188 | 6,456 | 11,526 | 11,797 | 76,523 |
| General Manager | 141 | 136 | 115 | 101 | 19 | 23 | 24 | 12 | 42 | 85 | 151 | 155 | 1,005 |
| Admin Services Manager | 381 | 366 | 311 | 272 | 53 | 62 | 65 | 33 | 113 | 229 | 408 | 418 | 2,710 |
| Accountant | 354 | 340 | 289 | 253 | 49 | 58 | 60 | 30 | 105 | 213 | 380 | 388 | 2,520 |
| Chief Tech Officer | 323 | 310 | 264 | 231 | 45 | 53 | 55 | 28 | 96 | 194 | 346 | 355 | 2,300 |
| Payroll Taxes & Benefits& O.H. | 600 | 576 | 490 | 429 | 83 | 98 | 102 | 52 | 178 | 360 | 643 | 658 | 4,268 |
| | 1,800 | 1,728 | 1,469 | 1,286 | 248 | 294 | 307 | 155 | 533 | 1,080 | 1,928 | 1,974 | 12,803 |
| CAL-Am Water Meter Svc. Chg. | 4,323 | 4,150 | 3,528 | 3,087 | 596 | 706 | 737 | 371 | 1,281 | 2,594 | 4,631 | 4,740 | 30,745 |
| Legal Fees | 352 | 337 | 287 | 251 | 48 | 57 | 60 | 30 | 104 | 211 | 377 | 385 | 2,500 |
| Software Maint Fees | 499 | 479 | 407 | 356 | 69 | 82 | 85 | 43 | 148 | 300 | 535 | 547 | 3,550 |
| | 6,475 | 6,216 | 5,284 | 4,624 | 892 | 1,058 | 1,103 | 556 | 1,919 | 3,885 | 6,936 | 7,099 | 49,598 |
| PBCo / IRWUG Representative | 6,750 | 6,480 | 5,508 | 4,820 | 930 | 1,103 | 1,150 | 580 | 2,000 | 4,050 | 7,230 | 7,400 | 48,000 |
| | 364,652 | 350,066 | 297,574 | 260,389 | 50,241 | 59,587 | 62,126 | 31,333 | 108,045 | 218,791 | 390,583 | 399,767 | 2,684,704 |
| | 548,896 | 526,940 | 447,926 | 391,952 | 75,626 | 89,694 | 93,516 | 47,164 | 162,636 | 329,338 | 587,929 | 601,753 | 3,811,820 |
| POTABLE WATER COSTS | 949 | 911 | 775 | 678 | 131 | 155 | 162 | 82 | 281 | 570 | 1,017 | 1,041 | 6,750 |
| | 547,947 | 526,029 | 447,152 | 391,275 | 75,495 | 89,539 | 93,354 | 47,083 | 162,355 | 328,768 | 586,912 | 600,712 | 3,805,070 |

CAWD/PBCSD Reclamation Project
 Monthly Budget Projections
 2018-19

| ACCT No. | Jul-17 | Aug-17 | Sep-17 | Oct-17 | Nov-17 | Dec-17 | Jan-18 | Feb-18 | Mar-18 | Apr-18 | May-18 | Jun-18 | ANNUAL BUDGET 17-18 |
|--|-------------|-------------|-------------|-------------|------------|------------|-------------|------------|-------------|-------------|-------------|-------------|---------------------|
| Interest Income - Reserve Funds | 4,500 | 4,320 | 3,672 | 3,213 | 620 | 735 | 767 | 387 | 1,333 | 2,700 | 4,820 | 4,933 | 32,000 |
| Interest Income - Union Bank | 14 | 13 | 11 | 10 | 2 | 2 | 2 | 1 | 4 | 8 | 15 | 15 | 100 |
| Interest Income - Well Fargo/Phase II | - | - | - | - | - | - | - | - | - | - | - | - | 0 |
| Water Entitlements | - | - | - | - | - | - | - | - | - | - | - | - | 0 |
| Gain/(loss) on Mkt Value of Securities | - | - | - | - | - | - | - | - | - | - | - | - | 0 |
| Interest Income-County | 28 | 27 | 23 | 20 | 4 | 5 | 5 | 2 | 8 | 17 | 30 | 31 | 200 |
| Interest Income - Bank of Amer. | 18 | 17 | 14 | 13 | 2 | 3 | 3 | 2 | 5 | 11 | 19 | 19 | 125 |
| Other Income | - | - | - | - | - | - | - | - | - | - | - | - | 0 |
| Bank Charges - BoA | (18) | (17) | (14) | (13) | (2) | (3) | (3) | (2) | (5) | (11) | (19) | (19) | (125) |
| Bond Carrying Costs | (4,041) | (3,879) | (3,297) | (2,885) | (557) | (660) | (688) | (347) | (1,197) | (2,424) | (4,328) | (4,430) | (28,735) |
| O&M Reserve Funds | - | - | - | - | - | - | - | - | - | - | - | - | 0 |
| Contribution to Capital Repl. Fund | - | - | - | - | - | - | - | - | - | - | - | - | 0 |
| Subtotal | \$501 | \$481 | \$409 | \$358 | \$69 | \$82 | \$85 | \$43 | \$149 | \$301 | \$537 | \$550 | \$3,565 |
| Interest Income - Construction Fd. | - | - | - | - | - | - | - | - | - | - | - | - | 0 |
| Interest Income - Bond Fund | - | - | - | - | - | - | - | - | - | - | - | - | 0 |
| Interest Income - W.F.-Construct. | - | - | - | - | - | - | - | - | - | - | - | - | 0 |
| Loss on Disposal | - | - | - | - | - | - | - | - | - | - | - | - | 0 |
| Interest Expense - COP's | 24,530 | 23,549 | 20,018 | 17,516 | 3,380 | 4,008 | 4,179 | 2,108 | 7,268 | 14,718 | 26,274 | 26,892 | 174,440 |
| Principal Payment - COP's | (295,304) | (283,492) | (240,983) | (210,869) | (40,686) | (48,255) | (50,311) | (25,374) | (87,498) | (177,183) | (316,304) | (323,741) | (2,100,000) |
| L/C Carrying Costs | (15,752) | (15,122) | (12,855) | (11,248) | (2,170) | (2,574) | (2,684) | (1,354) | (4,667) | (9,451) | (16,873) | (17,269) | (112,020) |
| Amortization Expense | (223,897) | (214,941) | (182,711) | (159,879) | (30,848) | (36,586) | (38,145) | (19,239) | (66,340) | (134,338) | (239,818) | (245,457) | (1,592,200) |
| Arbitrage Rebate to IRS | - | - | - | - | - | - | - | - | - | - | - | - | 0 |
| Other Income/(Expense) | - | - | - | - | - | - | - | - | - | - | - | - | 0 |
| Interest on Principal Advanced | (5,484) | (5,265) | (4,475) | (3,916) | (756) | (896) | (934) | (471) | (1,625) | (3,291) | (5,874) | (6,012) | (39,000) |
| Past LC fees/Bond Carry Cost payable | (77,623) | (74,518) | (63,344) | (55,428) | (10,695) | (12,684) | (13,225) | (6,670) | (22,999) | (46,574) | (83,143) | (85,098) | (552,000) |
| Subtotal | (593,531) | (569,789) | (484,350) | (423,825) | (81,775) | (96,987) | (101,120) | (51,000) | (175,861) | (356,118) | (635,737) | (650,686) | (4,220,780) |
| | (\$593,029) | (\$569,308) | (\$483,941) | (\$423,467) | (\$81,706) | (\$96,905) | (\$101,035) | (\$50,957) | (\$175,712) | (\$355,818) | (\$635,200) | (\$650,136) | (\$4,217,215) |
| | \$178,814 | \$171,662 | \$145,921 | \$127,687 | \$24,637 | \$29,220 | \$30,465 | \$15,365 | \$52,982 | \$107,289 | \$191,530 | \$196,034 | \$1,180,055 |

**CAWD/PBCSD Reclamation Project
Non-Operating Expenses
Fiscal Year 2018-19**

| ITEM | Acct No. | Actual 2016-17 | Estimated Actual 2017-18 | 2017-18 Budget | Proposed 2018-19 Budget | Comments |
|--|----------|------------------|--------------------------|------------------|-------------------------|--|
| NON-OPERATING EXPENSES: | | | | | | |
| Project - Bond Carrying Costs | 99956 | 26,600 | 19,570 | 38,335 | 28,735 | Bond Carrying Costs |
| | | | | | | U.S. Bank (Admin fee) \$3,850 |
| | | | | | | U.S. Bank (Incidental fee) \$ 385 |
| | | | | | | Arbitrage Calculation - Yield Restriction (3-13 next due 3-23) \$0 |
| | | | | | | Moody's - annual fee \$5,000 |
| | | | | | | Standard & Poors - review credit rating \$3,500 |
| | | | | | | Stifel, Nicolaus & Co - quarterly \$16,000 |
| | | | | | | Total..... \$38,335 |
| Bank charges | 99952 | 65 | 48 | 250 | 125 | Stop payments (0 @ \$20) & wire transfer fees (5 @ \$25) |
| L/C Carrying Costs | 99959 | 142,360 | 91,350 | 126,000 | 112,020 | Estimated at \$9,335/mo |
| COP Interest Expense | 99958 | 94,973 | 117,852 | 119,000 | 174,440 | Assumes 1.78% on \$9,800,000 (Note: 4/19/18 = 1.78%) |
| COP Principal Payment | 22041 | 1,900,000 | 2,000,000 | 2,000,000 | 2,100,000 | Per COP Schedule |
| Interest on Principal Advanced | 99957 | 46,855 | 51,574 | 39,000 | 39,000 | |
| Past LC fees/Bond Carry Cost payable | 22041 | 552,000 | 552,000 | 552,000 | 552,000 | \$5,520,000 monthly through 2022 (10 years) |
| Abandoned Well Costs | | 0 | 84,764 | 0 | 0 | |
| Contribution to Capital Replacement Fund | 11.1 | 0 | 0 | 0 | 0 | Goal \$2M in 2022 ; current balance \$1.1M |
| Amortization Exp | 99962 | 1,607,679 | 1,592,200 | 1,592,200 | 1,592,200 | |
| TOTAL NON OPERATING EXPENSES | | 4,370,532 | 4,509,358 | 4,466,785 | 4,598,520 | 0.02% increase from 18-19 budget 0.02% increase from projected YTD 18-19 actual |

| Payment 07/01 | Year |
|------------------|------|
| 2,600,000 | 2022 |
| 2,500,000 | 2021 |
| 2,400,000 | 2020 |
| 2,300,000 | 2019 |
| 0 | 2018 |
| 9,800,000 | |

CAWD/PBCSD Reclamation Project
 Capital Budget
 Fiscal Year 2018-19

| Project # | Lead | PROJECT | 18/19 | 19/20 | 20/21 | 21/22 | 22/23 | Unscheduled |
|--------------------------|-------|---|---------------------|---------------------|-------------------|------------------|-------------------|-------------|
| CAPITAL PROJECTS | | | | | | | | |
| 1 | CAWD | Equalization Influent Basin electrical work. | \$ 80,000 | | | | | |
| 2 | CAWD | Filter Rehabilitation of 6 filters | \$ 50,000 | \$ 300,000 | | | | |
| 3 | CAWD | PLC Programming Update | \$ 50,000 | \$ 50,000 | | | | |
| 4 | CAWD | Sulfuric Acid Tank Install | \$ 20,000 | | | | | |
| 5 | CAWD | Dream Report Software for SCADA & LIMS (50% CAWD) | \$ 13,000 | | | | | |
| 6 | CAWD | SCADA host Historian/Domain Controller (50% CAWD) | \$ 12,000 | | | | | |
| 7 | CAWD | Replace Lab Grade Water System (50% CAWD) | \$ 10,000 | | | | | |
| 8 | CAWD | Asset Analysis - Long Term Capital Plan | \$ 5,000 | \$ 25,000 | | | | |
| 9 | CAWD | Painting of Tertiary Building | | \$ 50,000 | \$ 50,000 | \$ 50,000 | | |
| 10 | CAWD | Floor Drain Improvements (Carryover) | | \$ 15,000 | | | | |
| 11 | CAWD | Chlorine Contact Channel Rehab (75% CAWD) | | | | | \$ 250,000 | |
| 12 | PBCSD | Forest Lake Pump Station Improvements | \$ 500,000 | | | | | |
| 13 | PBCSD | Poppy Hills Storage Tank Rehabilitation Project | \$ 250,000 | \$ 950,000 | | | | |
| 14 | PBCSD | SCADA System Rehabilitation | \$ 250,000 | | | | | |
| 15 | PBCSD | Pipeline Cathodic Protection Project | | \$ 250,000 | | | | |
| 16 | PBCSD | Storage Tank Cathodic Protection Equipment | | \$ 25,000 | | | | |
| CAPITAL PURCHASES | | | | | | | | |
| a | CAWD | PLC Updating Equipment | \$ 100,000 | | | | | |
| b | CAWD | Sulfuric Acid Tank | \$ 25,000 | | | | | |
| c | CAWD | Mainsaver - Purchasing Module (CAWD 66.7%) | \$ 19,650 | | | | | |
| e | CAWD | Mainsaver - Connect Mobile (CAWD 66.7%) | \$ 19,550 | | | | | |
| f | CAWD | Pumps, KSB: KRTK 150-401/266(G-S, Controls | \$ 18,000 | \$ 18,000 | | | | |
| g | CAWD | Effluent Flow Meter | \$ 15,000 | | | | | |
| h | CAWD | Pallet Jacks/Stackers (50% CAWD) | \$ 10,000 | | | | | |
| i | CAWD | Lab Autoclave (50% CAWD) | | \$ 16,000 | | | | |
| j | CAWD | Lab BOD incubator (50% CAWD) | | \$ 12,000 | | | | |
| k | CAWD | Lab Ion Chromatograph | | | \$ 150,000 | | | |
| l | CAWD | Lab Muffle Furnace (50% CAWD) | | | \$ 13,500 | | | |
| | | | | | | | | |
| | | RECLAMATION PROJECT | \$ 1,447,200 | \$ 1,711,000 | \$ 213,500 | \$ 50,000 | \$ 250,000 | \$ - |
| | | CAWD SHARE | \$ 48,646 | \$ 14,000 | \$ 6,750 | \$ - | \$ 187,500 | \$ - |
| | | PBCSD SHARE | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| | | RECLAMATION PROJECT | \$ 1,398,554 | \$ 1,697,000 | \$ 206,750 | \$ 50,000 | \$ 62,500 | \$ - |

CAWD/PBCSD Reclamation Project

| RECLAIMED & POTABLE WATER SALES | | | | | | |
|--|---------|-----------|---------|-------------|----------|---------------|
| Total Water sales - excluding meter charges. | | | | | | |
| Year | Potable | Reclaimed | Total | Total | Cost per | Annual Change |
| | AF | AF | AF | Water Sales | AF | |
| 1994-95 (partial year) | n/a | n/a | 675.86 | 780,669 | 1,155 | |
| 1995-96 | 277.00 | 726.56 | 1003.56 | 1,142,810 | 1,139 | 46.39% |
| 1996-97 | 372.00 | 689.00 | 1061.00 | 1,291,410 | 1,217 | 13.00% |
| 1997-98 | 166.31 | 626.00 | 792.31 | 960,924 | 1,213 | -25.59% |
| 1998-99 | 189.53 | 646.37 | 835.90 | 1,004,078 | 1,201 | 4.49% |
| 1999-00 | 282.92 | 780.41 | 1063.33 | 1,278,886 | 1,203 | 27.37% |
| 2000-01 | 317.00 | 636.00 | 953.00 | 1,379,969 | 1,448 | 7.90% |
| 2001-02 | 344.37 | 642.49 | 986.86 | 1,413,050 | 1,432 | 2.40% |
| 2002-03 | 272.16 | 706.55 | 978.71 | 1,406,089 | 1,437 | -0.49% |
| 2003-04 | 486.60 | 810.31 | 1296.91 | 2,158,690 | 1,664 | 53.52% |
| 2004-05 | 240.79 | 684.36 | 925.15 | 1,544,984 | 1,670 | -28.43% |
| 2005-06 | 156.16 | 718.51 | 874.67 | 1,490,644 | 1,704 | -3.52% |
| 2006-07 | 161.21 | 883.00 | 1044.21 | 1,891,133 | 1,811 | 26.87% |
| 2007-08 | 128.92 | 1061.01 | 1189.93 | 2,235,363 | 1,879 | 18.20% |
| 2008-09 | 56.00 | 980.00 | 1036.00 | 1,915,828 | 1,849 | -14.29% |
| 2009-10 | 61.84 | 866.66 | 928.50 | 1,807,929 | 1,947 | -5.63% |
| 2010-11 | 0.00 | 867.00 | 867.00 | 1,840,264 | 2,123 | 1.79% |
| 2011-12 | 0.00 | 977.00 | 977.00 | 2,344,687 | 2,400 | 27.41% |
| 2012-13 | 0.00 | 964.00 | 964.00 | 4,315,771 | 4,477 | 84.07% |
| 2013-14 | 0.00 | 1039.00 | 1039.00 | 5,420,192 | 5,217 | 25.59% |
| 2014-15 | 0.00 | 1001.30 | 1001.30 | 5,379,027 | 5,372 | -0.76% |
| 2015-16 | 24.00 | 1006.00 | 1030.00 | 5,513,758 | 5,353 | 2.50% |
| 2016-17 | 0.00 | 839.00 | 839.00 | 5,661,358 | 6,748 | 2.68% |
| 2017-18 (Projected) | 0.00 | 1000.00 | 1000.00 | 6,167,313 | 6,167 | 8.94% |
| 2018-19 (Budget) | 0.00 | 1000.00 | 1000.00 | 6,596,523 | 6,597 | 6.96% |

| Actual 2017-18 | | Potable | Reclaimed | Total | Total | Cost per | Cost per AF | Budgeted | Budgeted |
|----------------|------|---------|-----------|----------|-------------|----------|-----------------|----------|-----------|
| | | AF | AF | AF | Water Sales | AF | Budget Variance | AF | Sales |
| Jul-17 | | 0.00 | 150.00 | 150.00 | 717,069 | 4,780 | -22.5% | 137.00 | 854,174 |
| Aug-17 | | 0.00 | 126.00 | 126.00 | 647,880 | 5,142 | -16.6% | 131.14 | 817,637 |
| Sep-17 | | 0.00 | 143.00 | 143.00 | 698,385 | 4,884 | -20.8% | 121.40 | 756,910 |
| Oct-17 | | 0.00 | 116.00 | 116.00 | 617,767 | 5,326 | -13.6% | 88.40 | 551,160 |
| Nov-17 | | 0.00 | 24.00 | 24.00 | 342,413 | 14,267 | 131.3% | 17.40 | 108,486 |
| Dec-17 | | 0.00 | 52.00 | 52.00 | 426,556 | 8,203 | 33.0% | 12.86 | 80,180 |
| Jan-18 | | 0.00 | 6.00 | 6.00 | 288,536 | 48,089 | 679.8% | 24.60 | 153,377 |
| Feb-18 | | 0.00 | 2.00 | 2.00 | 390,458 | 195,229 | 3065.7% | 15.40 | 96,017 |
| Mar-18 | | 0.00 | 24.00 | 24.00 | 300,836 | 12,535 | 103.3% | 45.40 | 283,062 |
| Apr-18 | est. | 0.00 | 55.00 | 55.00 | 343,970 | 6,254 | 1.4% | 108.20 | 674,610 |
| May-18 | est. | 0.00 | 146.00 | 146.00 | 681,531 | 4,668 | -24.3% | 150.20 | 936,474 |
| Jun-18 | est. | 0.00 | 157.00 | 157.00 | 711,912 | 4,534 | -26.5% | 148.00 | 922,757 |
| YTD | | 0.00 | 1,001.00 | 1,001.00 | 6,167,313 | 6,161 | -0.1% | 1,000.00 | 6,234,844 |

| Actual 2016-17 | | Potable | Reclaimed | Total | Total | Cost per | Cost per AF | Budgeted | Budgeted |
|----------------|--|---------|-----------|--------|-------------|----------|-----------------|----------|-----------|
| | | AF | AF | AF | Water Sales | AF | Budget Variance | AF | Sales |
| Jul-16 | | 0.00 | 136.00 | 136.00 | 654,168 | 4,810 | -28.7% | 146.50 | 893,680 |
| Aug-16 | | 0.00 | 117.00 | 117.00 | 600,471 | 5,132 | -24.0% | 129.60 | 790,811 |
| Sep-16 | | 0.00 | 134.00 | 134.00 | 649,787 | 4,849 | -28.1% | 126.40 | 771,523 |
| Oct-16 | | 0.00 | 56.00 | 56.00 | 432,853 | 7,730 | 14.6% | 73.80 | 450,055 |
| Nov-16 | | 0.00 | 9.00 | 9.00 | 304,522 | 33,836 | 401.4% | 30.60 | 186,451 |
| Dec-16 | | 0.00 | 2.00 | 2.00 | 284,815 | 142,408 | 2010.4% | 17.90 | 109,299 |
| Jan-17 | | 0.00 | 3.00 | 3.00 | 286,763 | 95,588 | 1316.5% | 25.30 | 154,305 |
| Feb-17 | | 0.00 | 2.00 | 2.00 | 284,680 | 142,340 | 2009.4% | 15.80 | 96,440 |
| Mar-17 | | 0.00 | 24.00 | 24.00 | 345,600 | 14,400 | 113.4% | 33.70 | 205,739 |
| Apr-17 | | 0.00 | 55.00 | 55.00 | 429,188 | 7,803 | 15.6% | 79.00 | 482,202 |
| May-17 | | 0.00 | 147.00 | 147.00 | 684,768 | 4,658 | -31.0% | 164.40 | 1,002,979 |
| Jun-17 | | 0.00 | 154.00 | 154.00 | 703,742 | 4,570 | -32.3% | 157.00 | 957,974 |
| YTD | | 0.00 | 839.00 | 839.00 | 5,661,358 | 6,748 | 0.0% | 1,000.00 | 6,101,458 |

Operating Costs - billed per AF usage

| | | |
|--------------------|----|---------------------|
| Operating Expenses | \$ | 2,684,703.89 |
| MPWMD fee | \$ | 100,000.00 |
| | \$ | <u>2,784,703.89</u> |

Estimated AF 1,000

Price per AF \$ 2,784.70

Non Operating Costs - billed per Agreement %

| | | |
|------------------------|----|---------------------|
| Non Operating Expenses | \$ | 2,973,895.00 |
| Capital Budget | \$ | 1,398,553.60 |
| Prior Yr Capital | \$ | (560,629.00) |
| | \$ | <u>3,811,819.60</u> |

| | | | Monthly |
|-------------------|----------|----|-------------------|
| MPCC-Dunes | 12.125% | \$ | 38,515.26 |
| MPCC-Shore | 12.125% | \$ | 38,515.26 |
| Cypress Point | 12.125% | \$ | 38,515.26 |
| Poppy Hills | 12.125% | \$ | 38,515.26 |
| Pebble Beach | 12.125% | \$ | 38,515.26 |
| Spyglass Hill | 12.125% | \$ | 38,515.26 |
| Spanish Bay | 12.125% | \$ | 38,515.26 |
| PB Range | 3.625% | \$ | 11,514.87 |
| Peter Hay | 3.500% | \$ | 11,117.81 |
| PB Resorts | 3.500% | \$ | 11,117.81 |
| Equestrian Center | 3.000% | \$ | 9,529.55 |
| Stevenson School | 1.500% | \$ | 4,764.77 |
| | 100.000% | \$ | <u>317,651.63</u> |

CAWD/PBCSD Reclamation Project

Cash Flow Analysis Post IRWUG

As of March 31, 2018

Projected to June 30, 2018

| | | |
|--|-----------------|---------------------|
| Unrestricted cash per Balance Sheet at 6-30-13 | | 1,289,200.47 |
| Net Income per Income Statement at 6-30-14 | | 1,541,422.40 |
| Net Income per Income Statement at 6-30-15 | | 1,458,758.12 |
| Net Income per Income Statement at 6-30-16 | | 1,224,125.25 |
| Net Income per Income Statement at 6-30-17 | | 1,640,115.74 |
| Net Income per Income Statement at 3-31-18 | | 2,658,042.16 |
| Amortization at 6-30-14 | 1,585,572.00 | |
| Amortization at 6-30-15 | 1,589,847.00 | |
| Amortization at 6-30-16 | 1,592,269.00 | |
| Amortization at 6-30-17 | 1,607,679.00 | |
| Amortization at 3-31-18 | 0.00 | |
| A/R at 3-31-18 | (486,397.52) | |
| A/R at 6-30-13 | 1,518,947.77 | |
| Other a/r at 3-31-18 | (7,351.75) | |
| Other a/r at 6-30-13 | 15,337.58 | |
| Capital at 3-31-18 | (1,929,077.21) | |
| Capital at 6-30-13 | 8,104.11 | |
| Water resale rights 3-31-18 | (64,307,072.58) | |
| Water resale rights 6-30-13 | 63,232,989.26 | |
| Restricted cash at 3-31-18 | (1,141.32) | |
| Restricted cash at 6-30-13 | 1,136.12 | |
| A/P at 3-31-18 | 352,110.31 | |
| A/P at 6-30-13 | (318,874.33) | |
| Due to MPWMD 3-31-18 | 41,501.00 | |
| Due to MPWMD 6-30-13 | 0.00 | |
| Accrual to Cash adjustments | | 4,495,578.44 |
| PBCo COP payments FYE 6-30-14 | (1,700,000.00) | |
| PBCo prior bond cost payments FYE 6-30-1 | (552,000.00) | |

| | | |
|---|----------------|--------------------------|
| PBCo working capital payments FYE 6-30-14 | (1,641,213.00) | |
| PBCo COP payments FYE 6-30-15 | (552,000.00) | |
| PBCo prior bond cost payments FYE 6-30-16 | (1,700,000.00) | |
| PBCo COP payments FYE 6-30-16 | (1,800,000.00) | |
| PBCo prior bond cost payments FYE 6-30-17 | (552,000.00) | |
| PBCo COP payments FYE 6-30-17 | (1,900,000.00) | |
| PBCo prior bond cost payments FYE 6-30-18 | (552,000.00) | |
| PBCo COP payments at 3-31-18 | (1,500,000.00) | |
| PBCo prior bond cost payments at 3-31-18 | (414,000.00) | |
| Debt payments | | <u>(12,863,213.00)</u> |
| Unrestricted Cash per Balance Sheet at 3-31-18 | | 1,444,029.58 |
| Unrestricted cash per Balance Sheet at 6-30-13 | | <u>(1,289,200.47)</u> |
| Increase (Decrease) in Unrestricted cash | | <u><u>154,829.11</u></u> |
| Cash receipts-April actual | 380,000.00 | |
| Cash receipts-May estimated | 539,447.00 | |
| Cash receipts-June estimated | 679,581.00 | |
| Cash disbursements-April actual | (386,478.00) | |
| Cash disbursements-May estimated | (400,000.00) | |
| Cash disbursements-June estimated | (400,000.00) | |
| Estimated Increase (Decrease) in Unrestricted cash | | <u><u>567,379.11</u></u> |

2018-19 CAWD/PBCSD Reclamation Budget

Lead: CAWD

- \$80,000 Equalization Influent Basin Electrical Work
The equalization influent basin stores any excess treatment plant flow so that it can be metered back into the tertiary system so that production of tertiary water can be maximized. The current motor control is located on the exterior of the equalization influent basin. The control panel is exposed to flooding and is deteriorating. This project will relocate the control panel to the inside of the aeration electrical room. By relocating to an interior location, it will increase the asset's life and minimize the risk of failure. A second redundant motor controller will also be added so that a spare pump can be placed in service as an online backup. This will provide more value since a spare is already owned and the cost to install a secondary controller is reasonable if performed when relocating the existing primary controller.
- \$50,000 Filter Rehabilitation of 6 filters
Recommendation from Trussell Technologies is to bring back on-line pretreatment system prior to the Micro Filtration to improve feed water to the MF units. The pretreatment system is the Coagulation/Flocculation units and the Dyansand filtration units. Which will require rehabilitation/maintenance for being idle for 10 years to perform correctly. This will include a new 8-inch feed pipeline and pumps from the filter effluent (emergency reject sump) to the Micro Filtration feed line.
- \$50,000 PLC Programing Update
As part of the Filter Rehabilitation Project, the Tertiary Building PLC program will need to be modified to include controls which integrate the sand filters with the MF/RO system (the original MF/RO project did not integrate with the sand filters). Also, with the installation of the updated PLC hardware (included as a separate line item) the PLC programming will need to be modified. The newer hardware has more features to simplify the programming and optimize operations, new features will need to be added and any unused old programming will be removed.
- \$50,000 Painting of Tertiary Building
Repainting of Tertiary Building, MF/RO and equipment – routine maintenance.
- \$20,000 Sulfuric Acid Tank Install
For safety of operators and lower chemical costs a bulk 1,000 gallon double contained tank specifically for sulfuric acid feed system will be installed. The installation will

include double contained piping to all suction and discharge locations to meet all Cal OSHA regulations, including seismic engineering.

- \$15,000 Floor Drain Improvements – Carryover
Install new drainage channels on the Reclamation pad to remove safety hazards from wet/slippery areas. Improvements include saw cutting cement and placing in corrosion resistant prefabricated drainage channels.
- \$13,000 Dream Report Software for SCADA & LIMS (50% CAWD)
Software that collects from SCAA data and LIMS data and prepares reports to be generated from the collected data to send to California State Water Board – Central Coast region and other regulatory agencies. With the new Ignition SCADA system being implemented facility-wide, Dream Report Software replaces the obsolete Report Builder so the reporting can be done through the new system.
- \$12,000 SCADA Host Historian/Domain Controller (50% CAWD)
Software that collects SCADA data Historian and allows reports to be generated from the collected data to send to California State Water Board – Central Coast Region. Current Historian is no longer supported by the vendor. With the new Ignition program based SCADA system an upgraded Historian/Domain Report Controller is needed to build Operations Reports for staff and the Regional Water Board.
- \$10,000 Replace Lab Grade Water System (50% CAWD)
Water purification system for lab grade water for use in analysis. The current water system used in the lab has been in place since the lab was constructed in 2000. The unit has been maintained over the years; however, in 2017 a resistivity cell failed and lab staff installed the backup cell and tried to order a replacement cell. The manufacturer responded to the order request by informing staff this water system was no longer manufactured and no spare parts or components were available. The lab water system is needed to provide Type 2 water for specific analysis and quality control for the lab staff.
- \$5,000 Asset Analysis – Long Term Capital Plan
This is a planning project to develop long term budget requirements to maintain the Reclamation Assets over the next 15 years and beyond. The project will be performed in a similar manner as the 15-year Capital Improvement Plan CAWD developed for the WWTP assets. The remaining useful life will be estimated for the individual assets and the replacement costs will be estimated. Using the remaining life cycles and replacement

costs, long term budget projections will be developed. High risk assets will be identified for closer consideration for near term proactive maintenance or replacement. Substantial focus will remain on increasing water recovery as future improvements are evaluated. Work will start in FY18/19 and continue into FY19/20.

- \$100,000 PLC Updating Equipment
The original tertiary PLC equipment is obsolete and no longer supported by the manufacturer. In order to perform modifications to the controls associated with the Filter Rehabilitation Project the existing PLC will need to be replaced. The equipment requires replacement with a new PLC controller and input/output cards so that failures will be minimized and if a failure does occur it can be quickly diagnosed and repaired. The new system also has updated features such as hot swappable components, better diagnostics features and supports updated programming software. This PLC work matches the PLC improvements that CAWD is implementing throughout the WWTP.
- \$25,000 Sulfuric Acid Tank
Bulk 1,000 gallon double contained tank specifically for sulfuric acid feed system. See Sulfuric Acid Tank installation above for more detail.
- \$19,650 Mainsaver – Purchasing Module (CAWD 66.7%)
The purchasing module is the tracking software system used by staff to prepare and submit purchase orders for approval. The existing program will no longer be support by Microsoft and was customer build for CAWD. The proposed Mainsaver Module will integrate into the current CMMS work order system and inventory control. This will result in reduced staff time needed for manual data entry and scanning under the current system. It is anticipated the program will reduce approximately 10 hrs of staff time each week from manual paperwork tasks and allow for better tracking of material and create better access to historic documents. The system is required for District public transparency and accounting.
- \$19,550 Mainsaver – Connect (CAWD 66.7%)
Allows operations and staff access to work orders, O&M manuals, and equipment maintenance history in the field while they are working. This will give staff access to the Mainsaver CMMS system from field tablets. Staff will also be able to use scanning equipment to check out tools, equipment, and inventory and apply to work orders. This tool will increase staff productivity and maintenance records, provide timely information about equipment, and will improve safety by providing field access to lockout tag out, fall protection data, and other maintenance standard operating

procedures. This system is the first step in “just-in-time” inventory management and ordering.

- \$18,000 Pumps, KSB: KRTK 150-401/266/G-S, Controls
One new feed pump and controls for the pump to send Tertiary water from the Emergency Reject Sump to the Micro Filtration System. A second pump and controls would be purchased in the budget year 2019-2020. Once the Tertiary Pretreatment System proves to meet the objectives from the Trussell Technical Memo.
- \$15,000 Effluent Flow Meter
Original flow meter is from 1994 and unit has reached it useful life expectancy by experiencing calibration issues. This flow meter is no longer supported by the manufacture for the 1994 model.
- \$10,000 Pallet Jacks/Stackers (50% CAWD)
The Pallet Jack is a device to be able to move heavy items (chemical totes and equipment) in different areas of the treatment facility. The two pallet jacks currently used though-out the facility are more than 10 years old and in need of replacement.

2018-19 CAWD/PBCSD Reclamation Budget

Lead: PBCSD

- \$500,000 Forest Lake Pump Station Improvements

Replace intake and discharge pump manifolds and appurtenances. Manifold piping was originally installed over 50 years ago as part of the reservoir distribution system when operated by California American Water and is now in need of replacement.

- \$250,000 (18-19) and \$950,000 (19-20) Poppy Hills Storage Tank Rehabilitation Project

Install bypass system, remove interior and exterior coating, apply new protective coating system to interior and exterior of the 2.5 million-gallon recycled water storage tank, and perform structural rehabilitation as required.

- \$250,000 Pipeline Cathodic Protection Project

Field-testing of the recycled water distribution steel pipeline, which has a total length of 40,000 feet (or 7.6 miles), indicated the potential for corrosion. This project includes the design and construction of a cathodic protection system for the recycled water pipeline in Carmel to reduce the potential for corrosion and extend the useful life of the pipeline.

- \$250,000 SCADA System Rehabilitation

The District Supervisory Control and Data Acquisition (SCADA) system controls both wastewater and reclamation facilities including all eight wastewater pump stations, Forest Lake Reservoir, 2.5 MG recycled water storage tank and is the interface with the CAWD treatment plant, tracking critical parameters used to adjust operations. The most important function of the SCADA system is its ability to “call - out” when abnormal parameters are observed (i.e. high or low water level in the storage tank or Forest Lake pump station) notifying staff of these issues and allowing staff to quickly respond to make corrective actions. Staff can check and adjust the system remotely. The SCADA system reduces the risk of unwanted circumstances especially outside normal business hours.

- \$25,000 Storage Tank Cathodic Protection System

The cathodic protection system, which reduces the potential for corrosion on the interior surface of the recycled Poppy Hills water storage tank, will be replaced.