



PCWA

2019 Annual Budget



**Placer County Water Agency
Auburn, California**

2019 Budget



**Placer County Water Agency
Auburn, California
www.pcwa.net**

**Prepared by the Department of Financial Services
Adopted November 15, 2018**



**PLACER COUNTY WATER AGENCY
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MEMORANDUM

DATE: November 15, 2018

TO: Chair and Members of the Board of Directors

FROM: Joseph H. Parker, CPA, Director of Financial Services

RE: **Transmittal for the Adopted 2019 Placer County Water Agency Budget**

Overview

2019 Combined All-Inclusive Expense Budget

The Adopted 2019 Placer County Water Agency (Agency) Budget totals \$116 million, which is comprised of:

• Agency Wide Operating	\$ 2.6 million
• Power Division Operating	25.9 million
• Water Division Operating	40.0 million
• Combined Capital	47.5 million
	<hr/>
	\$116.0 million
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Overall, the Adopted 2019 Combined Agency Budget of \$116 million is \$3.3 million more than the 2018 Adjusted Budget. The Combined Operating Budgets have increased \$4.9 million over the Adjusted 2018 Budget, which includes an increase of \$1.3 million from the Water Division and \$3.6 million from the Power Division.

2019 Adopted Budget – Budget Unit Overview

Agency Wide

The 2019 Agency Wide Budget totals \$3.9 million including \$2.6 million in operating and \$1.3 million in capital project funding. The revenue budget is up \$70,000 or 2.8% over the 2018 Adjusted Budget, resulting from projected increases in property tax revenue and interest earnings.

The Operational Expense Budget is decreased from the 2018 Adjusted Budget by a net amount of \$34,000 or 1.3% based on the following:

- General Manager's Office is increased \$5,200 attributed to an increase in labor and benefits and membership dues netted with a decrease in anticipated legal services.
- Administrative Services is increased \$345,000 with labor up 3% by a budgeted COLA, various benefit increases and increased information technology services costs.
- Public Affairs is increased \$28,000 in labor and benefits, travel, and training.
- Financial Services is increased \$89,000 attributed to increases in labor and benefits. The Financial Assistance Program increased \$58,000.
- Legal Services is decreased \$15,000 with decreases in travel, training, and other services down \$20,000 netted with increases in labor and benefits.
- Strategic Affairs is increased \$139,000 which includes an increase in labor and benefits of \$134,000 largely related to a redistribution of labor from the Power Division, increases related to NCWA membership dues, the State Water Resource Control Bay-Delta Water Quality Control Plan and other Cost Share Partnerships totaling \$180,000 netted with a decrease of \$175,000 for outside legal services.
- Energy Marketing is budgeting \$10,000 to focus on Strategic Affairs projects related to Water Rights.
- Technical Services is decreased \$10,600 in Cost Share Partnerships.
- Agency Wide Routine Capital is decreased by \$1,500 as a result of a reduction in identified capital equipment needs for 2019.

These overall changes in the Agency Wide departmental operating budgets are shared through the service level support allocated by a detailed Cost Allocation Plan process whereby Power Division, Water Division and capital projects are appropriately allocated support costs. An extensive review of the Cost Allocation Plan was performed this year and adjustments were made to the model, resulting in a net decrease to the Agency Wide budget of \$651,000.

Power Division

The 2019 Power Division Budget totals \$37.5 million including \$25.9 million in operating and \$11.6 million in capital project funding. The Power Division budget is funded by MFP Finance Authority appropriations, hence the Power Division revenue line is titled "MFPFA Appropriation" and consequently the Power Division budget revenue totals the combined 2019 operating and capital projects budgets. The reason that Power Division revenue is

treated in this manner is pursuant to the Joint Powers Agreement between the County and the Agency, which specifies that the Middle Fork Project power sales are directed to and recognized by the Authority, not PCWA.

The Operational Expense Budget is increased from the 2018 Adjusted Budget by a net amount of \$3.6 million or 16.1% based on the following:

- Technical Services is increased \$1.4 million primarily for the anticipated FERC license issuance in mid-2019 and required monitoring and related studies, which will commence with the new license, increasing the budget by \$1.1 million. Additionally, the environmental budget increased \$200,000 for the weather modification services.
- Power Generation is increased \$998,000, largely attributed to an increase of \$578,000 in personnel costs with labor up 3% by a budgeted COLA, a 28% shift of labor from CIP projects to Operations and an increase in overtime for scheduled outages and winter road clearing. In addition, consulting and other professional services increased \$46,000, while general repair and maintenance costs for the Middle Fork Project, snow removal, blasting for rock slides as well as facilities repair costs total \$336,000.
- Energy Marketing is increased \$139,000, with \$66,000 for labor and benefits and \$73,000 for consulting and software associated with the forward market program front-office operations.
- Strategic Affairs is increased \$11,000 with anticipated increases related to the Joint Defense Agreement, NCWA membership dues, and the State Water Resource Control Bay-Delta Water Quality Control Plan total \$111,000 but are offset by a decrease of \$100,000 as a large percentage of labor and benefits shift to the Agency Wide Division.
- Financial Services is increased \$134,000, with \$100,000 directly related to the forward market program mid-office operations.
- Service Level Support is increased \$970,000 as a result of a new review and adjustments to the Agency's Cost Allocation Plan Model.

Water Division

The 2019 Water Division Budget totals \$74.6 million, which is comprised of a \$40.0 million operating budget, \$27.9 million project budget, and \$6.7 million capital related debt service costs. The Water Division is user charge based, which means those benefiting from the service pay the cost of that service. The Water Division does not receive property tax revenue.

The Water Division water sales revenue is increased \$1.3 million or 2.7% based on the following:

- A new rate structure was implemented in 2018 which shifted variable commodity revenue to fixed revenue. However, the 2018 treated resale water rate change, and therefore change in the rate structure, was not implemented until April 1, 2018, which resulted in additional Commodity revenue and a decrease in the anticipated Fixed Charge revenue for the first quarter of the year. The delay in the treated resale rate structure implementation had a one-time impact on the current years projected revenue. Because of this, the revenue baseline has been adjusted for this one-time impact. (See Table 1)
- The 2018 Adopted Commodity revenue was based on 2016 consumption, assumed to be a normal year after recovery from the 2014 drought. However, commodity use in the past couple of years has increased as evidenced by the treated retail and resale water consumption increase of over 12.5% from 2016 to projected 2018. The 2018 Adjusted Budget for water sales treated retail and resale was revised to capture this trend increase. Because of the consumption increase trend, Water Sales Commodity revenue has increased sufficiently to cover the rate of inflation increase for this water rate component and does not need a rate adjustment. (See Table 2)
- Fixed Charge revenue is increased \$1.4 million, which is comprised of an adjustment to the baseline amount for the Treated Resale rate implementation delay and a 3.5% Consumer Price Index cost escalation which is supported by a cost of service increase totaling \$523,250.
- Renewal and Replacement Charge revenue is increased \$463,050 with the 3.5% CPI escalation supported by the cost of service.

Table 1. Water Sales Revenue

	2018 Adopted Budget	2018 Projected Revenue	Update %	2018 Adjusted Budget	Delayed Rate Adjustment Implementation	2018 Baseline For 2019	Proposed Rate Increase %	2019 Proposed Budget
Revenue								
Water Sales - Treated Retail :								
Commodity	\$ 14,550,000	1,560,000	10.7%	16,110,000	-	16,110,000	-	16,110,000
Fixed Charge	11,500,000	(200,000)	-1.7%	11,300,000	-	11,300,000	3.5%	11,695,500
Renewal and Replacement Charge	10,480,000	(320,000)	-3.1%	10,160,000	-	10,160,000	3.5%	10,515,600
Other - shifted to Commodity as primarily construction water	110,000	(110,000)	-100.0%	-	-	-	-	-
Water Sales - Treated Resale :								
Commodity	1,500,000	950,000	63.3%	2,450,000	(550,000)	1,900,000	-	1,900,000
Fixed Charge	3,700,000	(1,200,000)	-32.4%	2,500,000	900,000	3,400,000	3.5%	3,519,000
Renewal and Replacement Charge	3,000,000	(150,000)	-5.0%	2,850,000	-	2,850,000	3.5%	2,949,750
Subtotal Water Sales - Treated	44,840,000	530,000	1.2%	45,370,000	350,000	45,720,000		46,689,850
Water Sales - Untreated Retail:								
Commodity	3,550,000	300,000	8.5%	3,850,000	-	3,850,000	-	3,850,000
Fixed Charge	238,000	-	0.0%	238,000	-	238,000	3.5%	246,330
Renewal and Replacement Charge	219,250	-	0.0%	219,250	-	219,250	3.5%	226,924
Water Demand Fees - shifted to Non-Operating in revised	10,000	(10,000)	-100.0%	-	-	-	-	-
Water Sales - Untreated Resale:								
Resale Commodity	260,000	(8,000)	-3.1%	252,000	-	252,000	-	252,000
Fixed Charge	12,000	-	0.0%	12,000	-	12,000	3.5%	12,420
Renewal and Replacement Charge	750	-	0.0%	750	-	750	3.5%	776
Subtotal Water Sales - Untreated	4,290,000	282,000	-94.6%	4,572,000	-	4,572,000		4,588,450
Total Water Sales	49,130,000	812,000	1.7%	49,942,000	350,000	50,292,000		51,278,300

Table 2. Water Consumption

	Actual 2016	Actual 2017	Projected 2018	% Change 2016 - 2018
Water Consumption (AF)				
Treated Retail:	20,885	22,647	23,525	12.6%
Treated Resale:	8,839	9,616	9,975	12.9%
Total Treated	29,724	32,263	33,500	12.7%
Water Consumption (AF)				
Untreated Retail:	90,261	84,613	89,358	-1.0%
Untreated Resale:	2,063	2,259	2,187	6.0%
Total Untreated	92,324	86,872	91,545	-0.8%

The Operational Expense Budget is increased from the 2018 Adjusted Budget by a net amount of \$1.3 million or 3.5% based on the following:

- Customer Services is increased \$57,000, which includes an increase in labor and benefits of \$93,000, increase of \$45,000 in operating supplies for the meter replacement program, increased professional services for janitorial contract totaling \$40,000, increase in facilities repair and maintenance, subscriptions, and other

operating services totaling \$110,000, offset by a reduction of \$228,000 in the rebates program budget to be in line with recent use.

- Field Services is increased \$590,000 as a result of increased labor and benefits totaling \$319,000, increases in professional services associated with surveying, landscaping, paving, and reimbursements to Governments for contracted work totaling \$133,000, offset by decreases in equipment maintenance, permits, compliance requirements and chemicals totaling \$51,000. In addition, Purchased Water increased a net \$189,000 primarily attributed to a CPI price increase in the PG&E contract.
- Technical Services is increased by \$290,000 for increased labor and benefits totaling \$146,000, an increase of \$99,000 in chemicals anticipating increased flows, increases in operating services and supplies totaling \$150,000, and a decrease of \$125,000 in the electricity budget for MFP water pumping.
- Service Level Support is increased \$264,000 as a result of review and adjustments to the cost allocation model that allocates service level support based on Agency Wide expense for support of the Water Division.
- Routine Capital is increased \$134,000 as a result of the anticipated purchase of a new dump truck in Field Services.

Capital Investment Program Budget – 2019 and Five Year (2019 – 2023)

The Agency's Five Year (2019 – 2023) Capital Investment Program (CIP) totals \$138.2 million and is comprised of the following: Agency Wide totals \$2.2 million, Power Division totals \$43.5 million and Water Division totals \$92.5 million. The Agency's CIP varies annually depending on the extent and magnitude of projects being implemented, such as the building of a water treatment plant, which will result in large capital outlays over several years. The Water Division is anticipating on constructing phase 1 of the Ophir Water Treatment Plant and associated appurtenances, as well as key pipelines and storage tank expansions, in the next 5 years totaling approximately \$18.2 million. Additionally, the 5 year plan anticipates \$21.3 million in CIP projects related to improvements on the existing water supply.

The 2019 CIP totals \$40.8 million and is detailed as follows:

Agency Wide

The 2019 Agency Wide CIP Budget totals \$1.3 million with the largest three projects being the American River Water Rights extension totaling \$710,000, Central Valley Project Water

Supply Contract totaling \$350,000, and RiverARC totaling \$125,000. The Five Year CIP Budget includes \$1.1 million of on-going funding for the American River Water Rights Extension project which will prepare the required environmental documents to extend the horizon of perfecting the American River Water Rights to year 2043.

Power Division

The 2019 Power Division CIP Budget totals \$11.6 million with the largest project being the Middle Fork Powerhouse Reliability Upgrades totaling \$2.7 million.

Several years prior to the end of the contract with PG&E in May 2013, the Agency focused on making betterments, improvements and modernizations to Middle Fork Project infrastructure. Although many of the planned upgrades have been accomplished, the upgrade project list grew and several large upgrade projects are still planned in the next 5 years as evidenced by the Five Year CIP, which includes \$9.3 million in upgrade projects and \$12.1 million in maintenance projects. The largest upgrade and maintenance projects of the Five Year CIP are the Middle Fork Powerhouse Reliability Upgrades (\$4.9m) and the Ralston Powerhouse Reliability Upgrades (\$3.5m).

Additionally, upon issuance of a new FERC license (expected in mid-2019) the Agency will be required to implement FERC enhancement projects based on the new license terms, which have an estimated cost of \$22.1 million. Because the FERC license is anticipated in just over one year, the Power Division Five Year CIP includes a majority of these projects.

Water Division

The 2019 Water Division CIP Budget totals \$27.9 million which is comprised of \$10.1 million in expansion (WCC funded) capital projects and \$17.8 million in renewal, replacement and reliability (rate funded) capital projects.

In April 2018, the Agency successfully refinanced \$31.5 million of the Water Divisions debt to take advantage of lower interest rates. The refinancing resulted in annual debt service savings of \$773,000 which is shared by expansion (92%) and renewal, replacement and reliability (8%) capital projects.

The largest 2019 WCC funded capital projects are the Treated Water Transmission & Distribution Projects totaling \$5 million for construction on the pipelines associated with the Ophir Water Treatment Plant project, and the Treatment Project category totaling \$5

million, with the largest project being the Sunset Water Treatment Plant Expansion totaling \$4 million.

In the 2019 CIP Budget, the largest renewal, replacement and reliability capital projects are Raw Water Transmission & Distribution Projects totaling \$14.3 million, with the largest project being construction on the Foothill Raw Water Supply Pipeline totaling \$13.5 million.

There continues to be a substantial demand to maintain water system infrastructure renewal, replacement, reliability and dependability needs. Emphasis is placed upon project prioritization and those areas where water use efficiency objectives can be achieved.

* * * * *

The 2019 Combined Budget is a team effort as each budget unit is built on the departmental level developed and compiled budgets. Each department utilizes a cost/benefit approach for budgeting in an effort to minimize expenses and implement cost saving efficiencies while maintaining our high service levels.

Supplemental Information Relevant to the Adopted 2019 Budget

Budget Policy, Process and Format

The Agency's Budget Policy, [Agency Rules and Regulations, Chapter 8, Article 2], sets forth the budget process and format. The operating budgets shall serve as a financial plan for the three budget units: Agency Wide, Power Division and Water Division. The Capital Investment Program (CIP) is presented by budget unit, in two configurations: annual and five year plans. These documents comprise the Agency's Annual Budget.

Per Policy, annually the General Manager and Director of Financial Services will prepare or have prepared the Agency Budgets, which shall be recommended by the General Manager and Director of Financial Services to the Board of Directors no later than the first regular meeting in December of each year.

The Agency's annual budget process commences in the Spring and concludes in the Fall with the combined three budget unit Agency Budget considered by the Board in late November

or early December. Historically, the Power Division budget follows an accelerated schedule to meet the timing established by the Middle Fork Project Finance Authority for appropriating the funds for the Agency's Power Division needs.

Power Division Budget Process

The Power Division budget process commences in May as staff prepares a draft 2019 Power Division Budget for refinement in July with a draft to the Finance Committee and Board in July or early August. A draft budget is provided to the County staff and in consultation of Placer County staff, refinements are made to the Power Division Budget, which is then incorporated in the MFP Finance Authority Budget. The MFP Finance Authority Budget is considered by the MFP Finance Authority Board in mid-October, which provides the appropriation to the Power Division Budget.

Agency Wide and Water Division Budget Process

The Agency Wide and Water Division budget process commences in May with a current year budget performance assessment and initial discussion of the following year's budget. This is followed by various staff meetings to discuss the budgeting process, operating budget needs, potential new personnel positions, routine capital and project needs, rate setting and financial outlook.

Agency Finance Committee and Board Consideration

The Board's Finance Committee typically meets in the Summer (June or July) to review the Budget Timeline and draft Power Division Budget. Then depending on the needs of the Agency Wide and Water Division funds, various meetings may be held in the late Summer and Fall. Typically, the next year's Budget is ready for the Board's consideration in late November or early December.

In 2018, the Board's Finance Committee, consisting of Directors Alpine and Santini, met on July 5th to review the 2019 Budget Timeline, the Proposed 2019 Power Division Budget, and the Proposed Water Division Capital Projects Budget. The Committee met again on September 6th and 17th to discuss a Proposed 2019 Agency Wide and Water Division Budgets. Additionally, at the Board of Directors meeting on November 1, 2018, an informational workshop was held on the Proposed 2019 Water Division Budget, which included the same material presented to the Finance Committee. Comments and suggestions from those meetings have been incorporated into the final budget document.

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Annual Budget



Penryn Flume - Penryn Canal

Placer County Water Agency
2019 Combined All-Inclusive Expense Budget

	2019 Adopted			Total
	Agency Wide	Power Division	Water Division	
Operating Expenses				
Total Operating Expenses	\$ 2,533,652	25,859,853	40,052,137	68,445,642
Capital Investment Program				
Middle Fork Project Infrastructure Projects	-	11,624,000	-	11,624,000
Reserves Funded Projects	1,335,000	-	-	1,335,000
Rates Funded Projects	-	-	17,770,000	17,770,000
Expansion Projects	-	-	10,080,000	10,080,000
Project Debt Service Costs (Rates and Expansion)	-	-	6,713,000	6,713,000
Total Capital Investment Program	1,335,000	11,624,000	34,563,000	47,522,000
Total Expense Budget	\$ 3,868,652	37,483,853	74,615,137	115,967,642

**Placer County Water Agency
2019 Combining Budget Schedule**

	2019 Adopted			Combined Total
	Agency Wide	Power Division	Water Division	
Revenue				
Water Sales	\$ 740,000	-	51,278,300	52,018,300
MFPFA Appropriation	-	37,483,853	-	37,483,853
Other Revenue	1,833,000	-	3,530,000	5,363,000
Total Revenue	2,573,000	37,483,853	54,808,300	94,865,153
Operations				
Board of Directors	228,475	-	-	228,475
General Manager's Office	753,406	-	-	753,406
Administrative Services	6,204,683	846,500	-	7,051,183
Customer Services	367,303	-	6,085,095	6,452,398
Field Services	-	5,000	13,597,220	13,602,220
Financial Services	2,439,547	1,634,545	-	4,074,092
Financial Assistance Program	165,000	-	-	165,000
Legal Services	118,176	94,350	94,350	306,876
Power Generation	-	14,336,817	-	14,336,817
Energy Marketing	10,000	1,686,253	-	1,696,253
Strategic Affairs	1,500,906	491,032	-	1,991,938
Technical Services (Note 1)	299,156	2,796,556	13,013,915	16,109,627
Service Level Support (Note 2)	(10,038,000)	3,252,000	5,820,000	(966,000)
Routine Capital	485,000	716,800	1,441,557	2,643,357
Total Operations	2,533,652	25,859,853	40,052,137	68,445,642
Capital Projects				
Capital Investment Program Appropriation	1,335,000	11,624,000	15,450,000	28,409,000
Field Services Projects	-	-	2,320,000	2,320,000
Subtotal	1,335,000	11,624,000	17,770,000	30,729,000
Project Debt Service	-	-	3,642,000	3,642,000
Total Capital Uses (Note 3)	1,335,000	11,624,000	21,412,000	34,371,000
Summary				
Total Revenue	2,573,000	37,483,853	54,808,300	94,865,153
Total Operations	2,533,652	25,859,853	40,052,137	68,445,642
Total Capital Projects	1,335,000	11,624,000	21,412,000	34,371,000
Revenue Under Expenses	(1,295,652)	-	(6,655,837)	(7,951,489)
(To) From Reserves	1,295,652	-	6,655,837	7,951,489
Net	\$ -	-	-	-

Note 1 - Technical Services Engineering Division supports both the Water and Power Division projects and the budget amount for this support is included in the respective projects. In addition, the Engineering Division supports the Agency's involvement in groundwater stewardship county wide which is accounted for in the Agency Wide budget unit.

Note 2 - Service Level Support - Based on the 2019 Cost Allocation Plan, \$10,038,000 of **service level support** is attributed to **operating** divisions (\$3,252,000 to the Power Division and \$5,820,000 to the Water Division) and \$966,000 is attributed to capital projects.

Note 3 - Water Connection Charge (WCC) funds are restricted, therefore, the **2019 Water Connection Charge Capital Projects and Debt Service** totaling \$16,155,050 are not included on this Combining Budget Schedule, and are shown separately on page 27. WCC Capital Projects and Debt Service are included on the Combined All-Inclusive Expense Budget on page 11.

Agency Wide



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Placer County Water Agency
Agency Wide
2019 Budget Schedule

	2018 Adjusted Budget	2019 Adopted Budget
Revenue		
Water Sales (Long-term Contracted)	\$ 740,000	740,000
Interest Earnings	150,000	200,000
Property Tax	860,000	880,000
Rental Income	643,000	643,000
Other	110,000	110,000
Total Revenue	2,503,000	2,573,000
Operations		
Board of Directors (Note 1)	258,759	228,475
General Manager's Office	748,238	753,406
Administrative Services	5,860,049	6,204,683
Customer Services - Public Affairs (Note 2)	338,920	367,303
Financial Services	2,350,917	2,439,547
Financial Assistance Program	106,612	165,000
Legal Services (Note 3)	132,931	118,176
Strategic Affairs (Note 4)	1,361,592	1,500,906
Energy Marketing	-	10,000
Technical Services - SGMA (Note 5)	309,802	299,156
Service Level Support (Note 6)	(9,387,000)	(10,038,000)
Routine Capital	486,500	485,000
Total Operations	2,567,320	2,533,652
Capital Projects		
Capital Investment Program	1,135,000	1,335,000
Total Capital Projects	1,135,000	1,335,000
Summary		
Total Revenue	2,503,000	2,573,000
Total Operations	2,567,320	2,533,652
Total Capital Projects	1,135,000	1,335,000
Revenue Under Expenses	(1,199,320)	(1,295,652)
(To) From Reserves	1,199,320	1,295,652
Net	\$ -	-

See Notes on following page.

Placer County Water Agency
Agency Wide
2019 Budget Schedule

Note References for Page 13

- Note 1 - Board of Directors** operating expense includes an annual budget for half of the semi-annual general election expenses estimated at \$140,000.
- Note 2 -** Public Affairs Activities was moved from Administrative Services to **Customer Services** during 2018.
- Note 3 -** The **Legal Services Department** was established by Board action on April 24, 2016, and staffed with one attorney in July 2016, who will plan, organize and direct an array of legal functions, as well as provide comprehensive representation for the Agency on a variety of legal and strategic matters. Labor and benefits are budgeted one-third to each budget unit. Other operating expenses for Legal are budgeted 100% to Agency Wide and allocated annually through service level support.
- Note 4 -** In 2015 the **Strategic Affairs** department was eliminated and the functions incorporated into Resource Development. During 2017 the Resource Development Department was bifurcated into two departments restoring the Strategic Affairs Department, primarily an Agency Wide function, and Energy Marketing, a Power Division function. For 2019, a Energy Marketing staff person will assist with Strategic Affairs projects related to Long Term Water Rights and Water Supply contracts.
- Note 5 - Technical Services - SGMA** operating expense is in support of the Agency's involvement in groundwater stewardship county wide. Specifically, the Agency has supported groundwater management plans in two basins: 1) the Martis Valley Basin and 2) the North American Sub-basin to the Sacramento Valley. These plans will evolve to comply with the Sustainable Groundwater Management Act (SGMA) of 2014.
- Note 6 - Service Level Support** is allocated to benefiting budget units and recovers the Agency's indirect costs that support the Agency Wide, Power and Water Divisions which cannot be directly attributed to individual projects, departments or activities. The Agency utilizes a comprehensive Cost Allocation program which uses allocation factors to spread the indirect costs to the budget units. Based on the 2019 Cost Allocation Plan, \$9,072,000 of service level support is attributed to operating divisions and \$966,000 is attributed to capital projects as follows:

	2018 Adjusted Budget	2019 Adopted Budget
Service Level Support:		
Power Division (Operations)	\$ (2,282,000)	(3,252,000)
Water Division (Operations)	(5,556,000)	(5,820,000)
Capital Projects	(1,549,000)	(966,000)
	\$ (9,387,000)	(10,038,000)

Placer County Water Agency
Agency Wide
Statement of Expenses by Department and Category
2019 Budget Schedule

	2018 Adjusted Budget	2019 Adopted Budget
Operating Expenses		
Expenses by Department:		
Board of Directors	\$ 258,759	228,475
General Manager's Office	748,238	753,406
Administrative Services	5,860,049	6,204,683
Customer Services - Public Affairs	338,920	367,303
Financial Services	2,350,917	2,439,547
Financial Assistance Program	106,612	165,000
Legal Services	132,931	118,176
Strategic Affairs	1,361,592	1,500,906
Energy Marketing	-	10,000
Technical Services	309,802	299,156
Service Level Support	(9,387,000)	(10,038,000)
Routine Capital	486,500	485,000
Total Departmental Expenses	\$ 2,567,320	2,533,652
Expenses by Category:		
Personnel Services (Salary & Benefits)	\$ 6,631,915	7,006,067
Operating Supplies	265,233	219,225
Operating Services	1,597,560	1,719,860
Insurance (Note 1)	580,000	580,000
Professional Services	2,286,500	2,396,500
Financial Assistance Program	106,612	165,000
Service Level Support	(9,387,000)	(10,038,000)
Routine Capital	486,500	485,000
Total Expenses by Category	\$ 2,567,320	2,533,652

Note 1 - Insurance for Agency Wide and Water Division is budgeted in Agency Wide and allocated through Service Level Support. Insurance for the Power Division is budgeted directly in the Power Division budget.

Placer County Water Agency
Agency Wide
Statement of Revenues, Expenses and Changes in Net Position - Actual and Budget
[Financial Statement Format]
Years 2014 - 2019

	Audited 2014	Audited 2015	Audited 2016	Audited 2017	Adjusted 2018 Budget	2019 Adopted Budget
Operating Revenue:						
Water Sales (Long-term Contracted)	864,094	1,017,430	1,250,787	1,345,747	740,000	740,000
Other	67,739	186,241	122,817	75,529	110,000	110,000
Total Operating Revenue	931,833	1,203,671	1,373,604	1,421,276	850,000	850,000
Operating Expenses:						
General and Administrative (Note 1)	992,384	1,780,862	2,510,524	1,795,452	2,080,820	2,048,652
Depreciation	532,852	585,580	691,330	650,842	-	-
Total Operating Expenses	1,525,236	2,366,442	3,201,854	2,446,294	2,080,820	2,048,652
Operating Income (Loss)	(593,403)	(1,162,771)	(1,828,250)	(1,025,018)	(1,230,820)	(1,198,652)
Non-Operating Revenue:						
Water Sales (One-time)	11,750,000	6,000,000	-	-	-	-
Costs Recovered from Other Agencies	630,355	103,350	66,294	257,673	-	-
Interest Earnings	179,993	178,093	269,526	410,305	150,000	200,000
Property Taxes	762,750	840,877	891,465	927,340	860,000	880,000
Rental Income	538,000	550,280	556,000	566,000	643,000	643,000
Other	(77,704)	(79,023)	(37,383)	(72,363)	-	-
Total Non-Operating Revenue	13,783,394	7,593,577	1,745,902	2,088,955	1,653,000	1,723,000
Transfers (Note 2)	(19,612,270)	(10,411,313)	237,377	-	-	-
Net	(6,422,279)	(3,980,507)	155,029	1,063,937	422,180	524,348
Beginning Net Position	56,395,564	49,973,285	40,645,960	40,800,989	41,864,926	42,287,106
Restatement (Note 3)	-	(5,346,818)	-	-	-	-
Ending Net Position	49,973,285	40,645,960	40,800,989	41,864,926	42,287,106	42,811,454

Note 1 - The General and administrative operating expense budget does not include depreciation and excludes routine capital as these items are capitalized.

Note 2 - Transfers - In 2014, the LL Anderson Spillway Modification project was completed and \$18.2 million transferred from Agency Wide to the Power Division. In 2015, \$4.7 million was transferred to the Water Division to realign funding for prior spent water funds and drought support, and \$5.8 million was transferred to the Power Division to eliminate an interfund loan for prior years service level support.

Note 3 - Net Position Restatement - In 2015, with the implementation of GASB 68, the unfunded pension liability is reported on the Statement of Net Position, resulting in a prior period adjustment to net position. GASB 68 affects the reporting and accounting presentation of the Agency's pension liability. Prior to this and in accordance with existing GASB standards, this liability was previously disclosed in the Notes to Financial Statements.

Placer County Water Agency
Agency Wide
Reserves
2019 Budget Schedule

	2018		2019 Adopted Sources (Uses)	2019 Year-end Estimated Balance
	Year Ended December 31, 2017	Budget Sources/ (Uses) CY Board Approved/to be Approved Uses		
Operating Reserve:				
Contingencies	\$ 1,687,522			1,687,522
Operational	863,128	77,292	(30,652)	909,768
General Elections (Note 1)	65,000	(70,000)	70,000	65,000
Total Operating Reserve	2,615,650	7,292	39,348	2,662,290
Capital Reserve:				
Routine Capital Replacement	340,235			340,235
Administration Building Maintenance and Improvements	1,242,009	(55,000)	(100,000)	1,087,009
Total Capital Reserve	1,582,244	(55,000)	(100,000)	1,427,244
Liabilities Reserve:				
Compensated Absences (current portion)	625,126			625,126
Total Liabilities Reserve	625,126	-	-	625,126
Specific Activities, Programs and Special Projects Reserve:				
Water Entitlements/Water Rights Permit Extension	3,595,061	(830,000)	(1,060,000)	1,705,061
Financial Assistance Program	130,595	(71,612)		58,983
County Wide Master Plan	543,403			543,403
Security Upgrades	254,457			254,457
Legal Defense	2,520,039			2,520,039
Next Generation ERP System	215,987			215,987
Stewardship Matters	549,278			549,278
Regional Reliability Program	2,921,565	(250,000)	(175,000)	2,496,565
Catastrophic Event	413,399			413,399
Total Specific Activities, Programs and Special Projects Reserve	11,143,784	(1,080,000)	(71,612)	9,992,172
Total Agency Wide Reserves	\$ 15,966,804	(1,072,708)	(1,295,652)	13,471,832

Note 1 - Operational Designation for General Election - This account was added in 2009 to provide annual budgeting for the bi-annual election costs.

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Power Division



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Placer County Water Agency
Power Division
2019 Budget Schedule

	2018 Adjusted Budget	2019 Adopted Budget
Revenue		
MFPFA Appropriation (Note 1)	\$ 34,522,163	37,483,853
Total Revenue	34,522,163	37,483,853
Operations		
Administrative Services	820,000	846,500
Field Services	5,000	5,000
Financial Services	1,500,452	1,634,545
Legal Services	89,131	94,350
Power Generation	13,338,986	14,336,817
Energy Marketing	1,547,758	1,686,253
Strategic Affairs	480,196	491,032
Technical Services	1,402,640	2,796,556
Service Level Support	2,282,000	3,252,000
Routine Capital	810,000	716,800
Total Operations	22,276,163	25,859,853
Capital Projects		
Capital Investment Program	12,246,000	11,624,000
Total Capital Projects	12,246,000	11,624,000
Summary		
Total Revenue	34,522,163	37,483,853
Total Operations	22,276,163	25,859,853
Total Capital Projects	12,246,000	11,624,000
Revenue Under Expenses	-	-
(To) From Reserves (Note 2)	-	-
Net	\$ -	-

Note 1 - The **MFPFA Appropriation**, the budget amount varies based on the annual operating and capital projects budgets. The Power Division budget includes MFPFA appropriations as revenue, because pursuant to the Joint Powers Agreement between the County and the Agency, the Middle Fork Project power sales are directed to and realized by the Authority.

Note 2 - Per Authority Policy, the **Reserves** for the Middle Fork Project are held by the MFPFA not the Agency, hence, no reserves are held by the Agency or presented in the Agency's Budget. The reserve amount held by MFPFA at December 31, 2017 totaled \$44.6 million.

Placer County Water Agency
Power Division
Statement of Expenses by Department and Category
2019 Budget Schedule

Operating Expenses	2018 Adjusted Budget	2019 Adopted Budget
Expenses by Department:		
Administrative Services (Note 1)	820,000	846,500
Field Services	5,000	5,000
Financial Services (Note 2)	1,500,452	1,634,545
Legal Services	89,131	94,350
Power Generation	13,338,986	14,336,817
Energy Marketing	1,547,758	1,686,253
Strategic Affairs	480,196	491,032
Technical Services	1,402,640	2,796,556
Service Level Support	2,282,000	3,252,000
Routine Capital	810,000	716,800
Total Departmental Expenses	\$ 22,276,163	25,859,853
Expenses by Category:		
Personnel Services (Salary & Benefits)	\$ 6,613,727	7,253,884
Operating Supplies	724,445	894,879
Operating Services	3,938,991	4,324,540
Insurance	750,000	750,000
Professional Services	2,932,000	3,267,750
Cost Share Partnerships (Note 3)	3,375,000	3,420,000
FERC License Condition Implementation	850,000	1,980,000
Service Level Support	2,282,000	3,252,000
Routine Capital	810,000	716,800
Total Expenses by Category	\$ 22,276,163	25,859,853

Note 1 - The **Administrative Services** budget is comprised of insurance and telephone expenses which are not included in service level support.

Note 2 - The **Financial Services** budget is comprised primarily of cost share partnerships, and middle and back office support functions which are not included in service level support.

Note 3 - Cost Share Partnerships

	<u>2019</u>
US Forest Service:	
Operations and Maintenance	\$ 516,000
Heavy Maintenance	81,000
Technical Services	81,000
Subtotal US Forest Service	<u>678,000</u>
Bureau of Land Management	265,000
Bureau of Reclamation	190,000
Placer County:	
Public Safety	880,000
Public Accessibility	575,000
Impact on County Revenues	332,000
Administration	500,000
Subtotal Placer County	<u>2,287,000</u>
Total Cost Share Partnerships	\$ 3,420,000

All Cost Share Partnerships are budgeted in the Power System budget with the exception of Impact on County Revenues & Administration which is included in the Financial Services budget.

Placer County Water Agency

Power Division

Statement of Revenues, Expenses and Changes in Net Position - Actual and Budget [Financial Statement Format] Years 2014 - 2019

	Audited 2014	Audited 2015	Audited 2016	Audited 2017	Adjusted 2018 Budget	2019 Adopted Budget
Revenue:						
Power Sales (MFPFA Appropriation) (Note 1)	25,505,528	25,581,655	22,707,961	27,342,238	34,522,163	37,483,853
Total Revenue	25,505,528	25,581,655	22,707,961	27,342,238	34,522,163	37,483,853
Operating Expenses:						
Electrical Operation	2,343,539	2,255,878	2,322,854	6,383,611	4,615,873	5,041,473
Repairs and Maintenance	2,556,136	2,361,196	3,221,411	2,680,431	2,717,641	3,021,753
Recreation	2,046,968	2,260,185	2,008,730	2,038,338	2,550,000	2,588,000
Technical Services	21,474	1,661,074	809,379	618,022	1,402,640	2,796,556
Power General and Administrative	2,847,366	4,277,526	4,199,436	3,790,685	3,455,472	3,685,591
Administrative Services	945,985	867,616	777,811	694,175	820,000	846,500
Financial Services	836,020	736,553	800,731	1,142,136	1,500,452	1,634,545
Field Services	-	-	-	2,195	5,000	5,000
Legal Services	-	-	48,558	93,328	89,131	94,350
Strategic Affairs	124,297	28,352	-	44,587	480,196	491,032
Energy Marketing	2,886,610	1,792,614	1,678,070	1,454,704	1,547,758	1,686,253
Service Level Support	2,311,732	2,032,000	2,045,000	2,227,000	2,282,000	3,252,000
Depreciation	4,444,289	4,804,135	5,249,623	5,283,546	-	-
Total Operating Expenses	21,364,416	23,077,129	23,161,603	26,452,758	21,466,163	25,143,053
Operating Income (Loss)	4,141,112	2,504,526	(453,642)	889,480	13,056,000	12,340,800
Non-Operating Revenue:						
Interest Earnings and Other	22,554	27,607	10,443	11,727	-	-
Total Non-Operating Revenue:	22,554	27,607	10,443	11,727	-	-
Transfers (Note 2)	18,047,564	5,934,077	32,121	-	-	-
Net	22,211,230	8,466,210	(411,078)	901,207	13,056,000	12,340,800
Beginning Net Position	144,326,079	166,537,309	168,468,519	168,057,441	168,958,648	182,014,648
Restatement (Note 3)	-	(6,535,000)	-	-	-	-
Ending Net Position	166,537,309	168,468,519	168,057,441	168,958,648	182,014,648	194,355,448

Note 1 - Power Sales - Since May 1, 2013, funds received from the sales of MFP power flow directly to MFPFA and the Agency's Power Division is funded by appropriation from MFPFA.

Note 2 - Transfers - In 2014, the LL Anderson Spillway Modification project was completed and \$18.2 million transferred from Agency Wide to the Power Division. In 2015, \$5.8 million was transferred from Agency Wide to the Power Division to eliminate an interfund loan for prior years service level support.

Note 3 - Net Position Restatement - In 2015, with the implementation of GASB 68, the unfunded pension liability is reported on the Statement of Net Position, resulting in a prior period adjustment to net position. GASB 68 affects the reporting and accounting presentation of the Agency's pension liability. Prior to this and in accordance with existing GASB standards, this liability was previously disclosed in the Notes to Financial Statements.

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Water Division



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Placer County Water Agency
Water Division
2019 Budget Schedule

	2018 Adjusted Budget	2019 Adopted Budget
Revenue		
Water Sales:		
Commodity	\$ 22,662,000	22,112,000
Fixed Charge	14,050,000	15,473,250
Renewal and Replacement	13,230,000	13,693,050
Total Water Sales	49,942,000	51,278,300
Other Revenue	3,415,000	3,530,000
Total Revenue	53,357,000	54,808,300
Operations		
Customer Services	6,027,684	6,085,095
Legal Services	91,832	94,350
Field Services	13,007,176	13,597,220
Technical Services	12,723,689	13,013,915
Service Level Support	5,556,000	5,820,000
Routine Capital	1,307,279	1,441,557
Total Operations	38,713,660	40,052,137
Capital Projects		
Capital Investment Program	8,855,000	15,450,000
Field Services Projects	2,300,000	2,320,000
Project Debt Service	3,727,000	3,642,000
Total Capital Projects	14,882,000	21,412,000
Summary		
Total Revenue	53,357,000	54,808,300
Total Operations	38,713,660	40,052,137
Total Capital Projects	14,882,000	21,412,000
Revenue Under Expenses	(238,660)	(6,655,837)
(To) From Reserves	238,660	6,655,837
Net	\$ -	-

Placer County Water Agency
Water Division
2019 Revenue Budget Schedule

	2018 Adjusted Budget	2019 Adopted Budget
Revenue		
Water Sales - Treated Retail:		
Commodity	\$ 16,110,000	16,110,000
Fixed Charge	11,300,000	11,695,500
Renewal and Replacement Charge	10,160,000	10,515,600
Subtotal Water Sales - Treated Retail	37,570,000	38,321,100
Water Sales - Treated Resale:		
Commodity (Note 1)	2,450,000	1,900,000
Fixed Charge	2,500,000	3,519,000
Renewal and Replacement Charge	2,850,000	2,949,750
Subtotal Water Sales - Treated Resale	7,800,000	8,368,750
Water Sales - Untreated:		
Retail Commodity	3,850,000	3,850,000
Resale Commodity (Note 2)	252,000	252,000
Fixed Charge	250,000	258,750
Renewal and Replacement Charge	220,000	227,700
Subtotal Water Sales - Untreated	4,572,000	4,588,450
Total Water Sales	49,942,000	51,278,300
Other Revenue:		
Engineering Charges	750,000	750,000
Customer Service Charges	725,000	725,000
Contributions in Aid of Construction (Install Charges)	250,000	250,000
Interest Earnings (Operations Portion)	1,000,000	1,115,000
Grants	500,000	500,000
Other (Operating and Non-Operating)	190,000	190,000
Total Other Operating Revenue	3,415,000	3,530,000
Total Revenue	\$ 53,357,000	54,808,300

Note 1 - Treated Water Resale and Industrial Customers

California American Water
City of Lincoln
Hidden Valley Community Association
Lakeview Hills Community Association
Willo-Glen Water Company

Note 2 - Untreated Water Resale Customers

Christian Valley Park Community Service District
Alpine Meadows Water Association
Dutch Flat Mutual Water
Heather Glen Community Service District
Meadow Vista County Water District
Weimar Water Company

Placer County Water Agency
Water Division
Statement of Expense by Department and Category
2019 Budget Schedule

Operating Expenses	2018 Adjusted Budget	2019 Adopted Budget
Expenses by Department:		
Customer Services	\$ 6,027,684	6,085,095
Legal Services	91,832	94,350
Field Services	13,007,176	13,597,220
Technical Services	12,723,689	13,013,915
Service Level Support	5,556,000	5,820,000
Routine Capital	1,307,279	1,441,557
Total Departmental Expenses	\$ 38,713,660	40,052,137
Expenses by Category:		
Personnel Services (Salary & Benefits)	\$ 18,085,481	18,645,655
Operating Supplies	1,668,984	1,764,451
Chemicals	721,763	811,259
Operating Services	3,566,065	3,507,265
Purchased Water	4,274,700	4,464,000
Electricity - MFP Water Pumping	775,000	650,000
Professional Services	2,758,388	2,947,950
Service Level Support	5,556,000	5,820,000
Routine Capital	1,307,279	1,441,557
Total Expenses by Category	\$ 38,713,660	40,052,137

Placer County Water Agency
Water Division
Rate Funded Projects
Five Year Projected Capital Sources and Uses

	2018 Adjusted Budget	2019 Adopted Budget	2020 Projected Budget	2021 Projected Budget	2022 Projected Budget	2023 Projected Budget
Estimated Reserve Funds Available for Use, January 1	\$ 22,435,180	20,933,180	13,364,230	14,461,230	15,402,230	16,603,230
Capital Sources:						
Renewal & Replacement Charge Revenue (Note 1)	13,230,000	13,693,050	13,967,000	14,246,000	14,531,000	14,822,000
Interest	150,000	150,000	150,000	150,000	150,000	150,000
Total Capital Sources	13,380,000	13,843,050	14,117,000	14,396,000	14,681,000	14,972,000
Capital Uses:						
Rate Funded Projects - in Capital Plan 5-yr Budget (Note 2)	11,155,000	17,770,000	9,385,000	9,824,000	9,876,000	10,197,000
Debt Service (paid in January & June)	3,727,000	3,642,000	3,635,000	3,631,000	3,604,000	3,577,000
Total Capital Uses	14,882,000	21,412,000	13,020,000	13,455,000	13,480,000	13,774,000
Estimated Reserve Funds Available for Use, December 31	\$ 20,933,180	13,364,230	14,461,230	15,402,230	16,603,230	17,801,230

General

Note - The Agency's practice is to maintain approximately \$5 million in this Renewal and Replacement reserve fund.

Note 1 - Renewal & Replacement Charge Revenue in years 2020 - 2023 is projected to increase 2% per year.

Note 2 - For 2019, \$300,000 of Grant Funding is proposed for capital projects and is included in this amount yet does not affect the reserves used herein.

Placer County Water Agency
Water Division
Water Connection Charge (WCC) - Restricted
2019 Budget Schedule

Cash and Investments Balance - Beginning of Year	
	2018
Total WCC Balance (Restricted)	\$ 51,391,885
Less: Rate Stabilization Reserve	6,075,000
Less: Projects Funded (amount available in construction fund)	12,186,835
Estimated Funds Available for Use, January 1	\$ 33,130,050

Budget		
	2018 Adjusted Budget	2019 Adopted Budget
Estimated Funds Available for Use, January 1	\$ 33,130,050	22,306,050
Capital Sources:		
Water Connection Charge Revenue	10,000,000	6,000,000
Total Capital Sources	10,000,000	6,000,000
Capital Uses - Appropriations:		
Capital Investment Program Appropriation	17,015,000	10,080,000
Debt Service (paid in January & June)	3,809,000	3,071,000
Total Capital Uses	20,824,000	13,151,000
Estimated Funds Available for Use, December 31	\$ 22,306,050	15,155,050
<i>Estimated Equivalent Dwelling Units (EDUs) paid</i>	530	310
Water Connection Charge Debt Outstanding (at January 1)	\$ 44,477,400	36,410,575

Placer County Water Agency
Water Division
Water Connection Charge (WCC) - Restricted
Five Year Projected Capital and Resource Needs

Budget	2018 Adjusted Budget	2019 Adopted Budget	2020 Projected Budget	2021 Projected Budget	2022 Projected Budget	2023 Projected Budget
Estimated Funds Available for Use, January 1	\$ 33,130,050	22,306,050	15,155,050	12,556,050	12,241,050	9,996,050
Capital Sources:						
Water Connection Charge Revenue	10,000,000	6,000,000	6,000,000	6,000,000	6,000,000	6,000,000
Total Capital Sources	10,000,000	6,000,000	6,000,000	6,000,000	6,000,000	6,000,000
Capital Uses:						
Capital Investment Program Appropriation	17,015,000	10,080,000	5,550,000	3,251,000	5,194,000	11,398,000
Debt Service (paid in January & June)	3,809,000	3,071,000	3,049,000	3,064,000	3,051,000	3,050,000
Total Capital Uses	20,824,000	13,151,000	8,599,000	6,315,000	8,245,000	14,448,000
Estimated Funds Available for Use, December 31	\$ 22,306,050	15,155,050	12,556,050	12,241,050	9,996,050	1,548,050
<i>Estimated Equivalent Dwelling Units (EDUs) paid</i>	530	310	310	310	310	310

Placer County Water Agency
Water Division
Statement of Revenues, Expenses and Changes in Net Position - Actual and Budget
[Financial Statement Format] Years 2014 - 2019

	Audited 2014	Audited 2015	Audited 2016	Audited 2017	Adjusted 2018 Budget	2019 Adopted Budget
Operating Revenue:						
Water Sales	\$ 33,323,365	41,687,583	44,914,252	47,447,458	49,942,000	51,278,300
Engineering Charges	713,920	814,238	855,627	668,978	750,000	750,000
Customer Service Charges	770,250	774,312	800,798	816,204	725,000	725,000
Other Revenue	7,373	14,900	120,944	149,487	190,000	190,000
Total Operating Revenue	34,814,908	43,291,033	46,691,621	49,082,127	51,607,000	52,943,300
Operating Expenses:						
Purchased Water	2,583,562	3,054,297	3,962,985	3,852,247	4,274,700	4,464,000
Water Treatment	6,632,499	7,340,537	7,566,013	7,676,652	8,466,076	8,875,787
Pumping Plants & Wells	2,070,275	2,567,327	586,127	587,642	775,000	650,000
Transmission and Distribution:						
Treated Water	2,366,201	2,840,337	2,724,957	3,018,125	2,769,349	3,104,551
Untreated Water	3,693,672	3,874,436	4,362,632	4,976,695	3,902,790	4,117,806
Field Administration	1,043,568	1,120,004	1,298,698	1,279,894	1,076,269	956,284
Customer Service and Collection	3,720,337	4,455,896	3,986,300	4,960,988	4,877,019	4,878,588
Automotive & Equipment	874,574	969,403	912,549	971,032	984,068	954,579
Engineering	3,047,196	3,851,538	6,038,257	4,515,102	3,482,613	3,488,128
General and Administrative	5,118,644	5,153,840	5,996,139	6,469,435	6,798,497	7,120,857
Subtotal Operating Expenses	31,150,528	35,227,615	37,434,657	38,307,812	37,406,381	38,610,580
Depreciation (Note 1)	17,623,987	17,947,426	17,723,339	18,066,828	-	-
Total Operating Expenses	48,774,515	53,175,041	55,157,996	56,374,640	37,406,381	38,610,580
Operating Income (Loss) (Note 1)	(13,959,607)	(9,884,008)	(8,466,375)	(7,292,513)	14,200,619	14,332,720
Non-Operating Revenue:						
Contributions in Aid of Construction	120,143	555,790	340,679	239,048	250,000	250,000
Mandated Charge	2,902	-	-	-	-	-
Water Connection Charge	9,385,614	24,996,971	11,824,165	7,795,975	10,000,000	6,000,000
Capital Facilities Charge	310,152	-	-	-	-	-
Renewal and Replacement Charge	10,809,457	-	-	-	-	-
Interest Earnings	835,472	888,896	1,110,082	1,426,327	1,000,000	1,115,000
Assessments	10,834	9,250	12,592	12,039	-	-
Gain (Loss) on Disposal of Assets	(5,100)	(23,707,338)	1,618	(6,616,175)	-	-
Grant	214,619	2,608,023	958,438	824,868	500,000	500,000
Other	274,348	(6,127,229)	1,074,831	576,518	-	-
Total Non-Operating Revenue	21,958,441	(775,637)	15,322,405	4,258,600	11,750,000	7,865,000
Non-Operating Expenses:						
Interest Expense	3,918,740	2,218,592	3,042,891	2,571,287	3,118,000	2,654,478
Total Non-Operating Expenses	3,918,740	2,218,592	3,042,891	2,571,287	3,118,000	2,654,478
Contributed Capital	14,265,424	7,221,675	7,018,306	532,360	-	-
Transfers	1,564,706	4,477,236	(269,498)	-	-	-
Net	19,910,224	(1,179,326)	10,561,947	(5,072,840)	22,832,619	19,543,242
Beginning Net Position	473,455,998	493,366,222	474,364,170	484,926,117	479,853,277	502,685,896
Restatement (Note 2)	-	(17,822,726)	-	-	-	-
Ending Net Position	\$ 493,366,222	474,364,170	484,926,117	479,853,277	502,685,896	522,229,138

See Notes on following page.

Placer County Water Agency
Water Division
Statement of Revenues, Expenses and Changes in Net Position - Actual and Budget
[Financial Statement Format]
Years 2014 - 2019

Note References for Page 29

- General** On November 7, 2013, the Agency and Northstar Community Services District (NCSD) executed a Memorandum of Understanding for annexation for water services of the Agency's Eastern Water System and on July 8, 2015 the Placer Local Agency Formation Commission (LAFCO) approved the annexation. The effective date of the transfer to NCSD is October 1, 2015. Therefore, in this financial statement format, years 2014 to 2015 include the Agency's Western and Eastern Water Systems and years 2016 to 2019 do not include the Eastern Water System, which is approximately 2% of the total Water Division.
- Note 1 -** Depreciation - The audited financial statements for the years 2014 - 2017 reflect an operating loss that is directly attributed to the increase in depreciation expense from new facilities being completed.
- Note 2 -** Net Position Restatement - In 2015, with the implementation of GASB 68, the unfunded pension liability is reported on the Statement of Net Position, resulting in a prior period adjustment to net position. GASB 68 affects the reporting and accounting presentation of the Agency's pension liability. Prior to this and in accordance with existing GASB standards, this liability was previously disclosed in the Notes to Financial Statements.

Placer County Water Agency
Water Division
Reserves
2019 Budget Schedule

	Year Ended December 31, 2017	Surplus Proceeds 2018	2018 Activity		CY Board Approved/ to be Approved Sources/(Uses)	2018 Year-end Estimated Balance	2019 Adopted Sources/(Uses)	2019 Year-end Estimated Balance
			Revised Budget Sources/ (Uses)					
Operating Reserve:								
Contingencies	\$ 2,174,725			(630,000)		1,544,725		1,544,725
Operational	2,869,666		1,113,340			3,983,006	763,113	4,746,119
Revenue Volatility (Note 1)	4,454,857					4,454,857		4,454,857
Energy Volatility (for pumping purposes)	2,453,801					2,453,801		2,453,801
Total Operating Reserve	11,953,049	-	1,113,340	(630,000)		12,436,389	763,113	13,199,502
Capital Reserve:								
Building and Facilities Maintenance and Improvements	750,851					750,851		750,851
System Replacement and Improvements	8,887,624					8,887,624		8,887,624
Vehicles, Equipment and Other Routine Capital Replacement	2,219,381	82,137				2,301,518		2,301,518
Revolving Grant Matching Funds (Note 2)	10,977					10,977		10,977
Renewal and Replacement Projects	22,435,180		(122,000)	(600,000)		21,713,180	(7,418,950)	14,294,230
Total Capital Reserve	34,304,013	82,137	(122,000)	(600,000)		33,664,150	(7,418,950)	26,245,200
Liabilities Reserve:								
Compensated Absences (current portion)	2,017,220					2,017,220		2,017,220
Risk Management Claim Liability/Deductible	326,265					326,265		326,265
Total Liabilities Reserve	2,343,485	-	-	-		2,343,485	-	2,343,485
Specific Activities, Programs and Special Projects Reserve:								
Service Center - Corporation Yard	3,709,739					3,709,739		3,709,739
Water and Energy Efficiency Strategies	82,479					82,479		82,479
Catastrophic Event	5,375,416					5,375,416		5,375,416
Total Specific Activities, Programs and Special Projects Res	9,167,634	-	-	-		9,167,634	-	9,167,634
Total Water Division Reserves	\$ 57,768,181	82,137	991,340	(1,230,000)		57,611,658	(6,655,837)	50,955,821

Water Division Operations Debt

Operations Debt Outstanding (at January 1)	\$ 36,729,787
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Note 1 - Revenue Volatility reserve funds are available to offset potential water sales revenue shortfalls due to weather or other variances.

Note 2 - Revolving Grant Matching Funds are available if needed to fund grant expenses anticipated on being reimbursed.

Placer County Water Agency
Summary Routine Capital
Agency Wide, Power Division and Water Division
2019 Budget Schedule

	2014 Budget	2015 Budget	2016 Budget	2017 Budget	2018 Budget	2019			
						Total	Agency Wide	Power	Water
Vehicles	\$ 806,000	858,000	615,000	609,000	1,008,400	1,160,352	-	335,000	825,352
Equipment & Tools	876,915	693,909	373,750	624,150	1,132,064	765,205	30,000	200,000	535,205
Office Furniture and Equipment	116,000	125,275	190,000	155,000	125,000	110,000	30,000	60,000	20,000
Computer Software and Hardware	588,450	727,806	710,825	545,900	310,500	607,800	425,000	121,800	61,000
Total Routine Capital	\$ 2,387,365	2,404,990	1,889,575	1,934,050	2,575,964	2,643,357	485,000	716,800	1,441,557

General Note - For budgeting purposes, routine capital is shown as a separate line item in the respective budget units.

Capital Investment Program



Middle Fork Project Communications Upgrade Project



Hell Hole Dam Core Raise Project

Capital Investment Program

This Capital Investment Program (CIP) consists of three sections: 1) 2019 Capital Investment Program detailing the various 2019 Agency Wide, Power Division and Water Division CIP budgeted projects, 2) 2019 Capital Investment Program – Five Year Plan and 3) 2019 Capital Investment Program Project Descriptions.

The first section is the ***2019 Capital Investment Program***, which details the budgeted 2019 projects, the administering department, the funding source (for example, Water Connection Charge, Water Rate Revenue or Middle Fork Project) and the 2019 budgeted amounts.

The second section is the ***2019 Capital Investment Program - Five Year Plan***, which details the project description, anticipated funding source, administering department, the 2019 budgeted amounts and the estimated annual funding appropriation requirements for the subsequent four years (2020 – 2023).

The third section is the ***2019 Capital Investment Program Project Descriptions***, which presents a brief description of each 2019 project nature and details.

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2019 Capital Investment Program



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2019 Capital Investment Program

Project No.	Project Description	Project Lead	Project Type	Project-to-Date Available Balance	WCC	Rates	Grants	Reserves	Middle Fork Project	2019 TOTAL
AGENCY WIDE PROJECTS										
09018A	American River Water Rights Extension	ENG	Water Supply	\$ 1,624,722	-	-	-	710,000	-	710,000
18018W	CVP Long Term Contract	SA	Water Supply	134,485	-	-	-	350,000	-	350,000
14056W	RiverArc	ENG	Planning	161,195	-	-	-	125,000	-	125,000
	Various HVAC/Environmental Control Upgrades	ENG	Miscellaneous	-	-	-	-	100,000	-	100,000
	Water Resources Plan	ENG	Water Supply	-	-	-	-	50,000	-	50,000
TOTAL AGENCY WIDE PROJECTS					-	-	-	1,335,000	-	1,335,000
POWER DIVISION PROJECTS (MINOR PROJECTS FOR MFP FINANCE AUTHORITY)										
14005P	Project Wide Security Surveillance Improvements	PWR	Planning	575,000	-	-	-	-	275,000	275,000
13018P	Penstock Int Coating Insp	PWR	Penstock	72,613	-	-	-	-	100,000	100,000
SUBTOTAL POWER DIVISION PROJECTS [MINOR PROJECTS FOR MFP FINANCE AUTHORITY]					-	-	-	-	375,000	375,000
POWER DIVISION PROJECTS (MAJOR PROJECTS - AUTHORIZED FOR MFP FINANCE AUTHORITY)										
<i>Major Projects Stand-Alone</i>										
17019W	ERP System Analysis & RFP	Admin	Computer Systems	579,845	-	-	-	-	500,000	500,000
17004P	French Meadows Forest Management	PWR	Environmental	78,008	-	-	-	-	750,000	750,000
12029A	Project Wide SCADA Reliability Upgrades	PWR	SCADA	226,063	-	-	-	-	100,000	100,000
12003P	Project Wide Slope Stability Above MFP Infrastructure	PWR		349,249	-	-	-	-	300,000	300,000
<i>French Meadows Powerhouse Reliability Upgrades</i>					-	-	-	-	-	-
<i>French Meadows Powerhouse Reliability Upgrades</i>					350,000	-	-	-	-	-

2019 Capital Investment Program

Project No.	Project Description	Project Lead	Project Type	Project-to-Date Available Balance	WCC	Rates	Grants	Reserves	Middle Fork Project	2019 TOTAL
17028P	FMPH Generator Excitation System Replacement	PWR	Plant	97,813	-	-	-	-	250,000	250,000
15011P	FMPH Cooling and Sump Pumps Control Upgrade	PWR	Plant	-	-	-	-	-	200,000	200,000
	FMPH HVAC Upgrade	PWR	Plant	-	-	-	-	-	200,000	200,000
	FMPH Generator Protection Upgrade	PWR	Plant	-	-	-	-	-	50,000	50,000
18013P	FM Penstock Coupling Investigation	PWR	Plant	76,494	-	-	-	-	250,000	250,000
14035P	FMPH Battery Room Addition	PWR	Plant	111,000	-	-	-	-	500,000	500,000
14007P	French Meadows Powerhouse Reliability Upgrades	PWR	Plant	635,307	-	-	-	-	1,450,000	1,450,000
	<i>Middle Fork Powerhouse Reliability Upgrades</i>			<i>1,324,827</i>						
	MFPH HVAC Upgrade	PWR	Plant	-	-	-	-	-	200,000	200,000
13025P	MFPH Switchyard Upgrades	PWR	Plant	25,259	-	-	-	-	2,000,000	2,000,000
18014P	MF Penstock Coupling Investigation	PWR	Plant	150,000	-	-	-	-	500,000	500,000
14009P	Middle Fork Powerhouse Reliability Upgrades	PWR	Plant	1,500,086	-	-	-	-	2,700,000	2,700,000
	<i>Oxbow Powerhouse Reliability Upgrades</i>			<i>452,315</i>						
13008P	OXPH Governor Upgrades	PWR	Plant	174,681	-	-	-	-	500,000	500,000
	OXPH Generator Excitation System Replacement	PWR	Plant	-	-	-	-	-	50,000	50,000
	OXPH HVAC Upgrade	PWR	Plant	-	-	-	-	-	200,000	200,000
14010P	Oxbow Powerhouse Reliability Upgrades	PWR	Plant	626,996	-	-	-	-	750,000	750,000
	<i>Ralston Powerhouse Reliability Upgrades</i>			<i>547,907</i>						

2019 Capital Investment Program

Project No.	Project Description	Project Lead	Project Type	Project-to-Date Available Balance	WCC	Rates	Grants	Reserves	Middle Fork Project	2019 TOTAL
	RAPH HVAC Upgrade	PWR	Plant	-	-	-	-	-	200,000	200,000
13032P	RAPH Switchyard Upgrades	PWR	Plant	288,421	-	-	-	-	1,500,000	1,500,000
18015P	RA Penstock Coupling Investigation	PWR	Plant	106,347	-	-	-	-	500,000	500,000
	RAPH - Penstock Access Improvements	PWR	Plant	-	-	-	-	-	200,000	200,000
14029P	RAPH Tunnel Intake Trash Rack Cleaner Upgrade	PWR	Plant	40,000	-	-	-	-	250,000	250,000
14012P	Ralston Powerhouse Reliability Upgrades	PWR	Plant	982,675	-	-	-	-	2,650,000	2,650,000
<i>Relicensing - Project Infrastructure</i>				<i>1,740,275</i>						
14041P	HH Dam Core Raise	PWR	Plant	6,494,571	-	-	-	-	500,000	500,000
	LL Anderson Outlet Works Upgrade	PWR	Plant	-	-	-	-	-	375,000	375,000
15016P	MFP Cooperative Road Management	PWR	Plant	-	-	-	-	-	230,000	230,000
14013P	Relicensing - Project Infrastructure	PWR	Plant	8,234,846	-	-	-	-	1,105,000	1,105,000
<i>Relicensing - Project Recreation Facilities</i>				<i>508,201</i>						
14018P	Abay Picnic Area, Boat Ramp, MF Stream Gage Trail Improvements and Indian Bar Access Trail Construction	ENG	Environmental	137,992	-	-	-	-	205,000	205,000
14020P	FM Boat Ramp Extension	ENG	Environmental	158,077	-	-	-	-	35,000	35,000
	FM Picnic Area	ENG	Environmental	-	-	-	-	-	105,000	105,000
14019P	FM RV Dump Station and Campground	ENG	Environmental	131,141	-	-	-	-	80,000	80,000
15009P	FM South Shore Water Supply	ENG	Environmental	147,520	-	-	-	-	94,000	94,000
14017P	HH Boat Ramp Extension	ENG	Environmental	218,619	-	-	-	-	150,000	150,000

2019 Capital Investment Program

Project No.	Project Description	Project Lead	Project Type	Project-to-Date Available Balance	WCC	Rates	Grants	Reserves	Middle Fork Project	2019 TOTAL
	HH Boat Ramp Parking & Potable Water, HH General Parking	ENG	Environmental	-	-	-	-	-	150,000	150,000
16012P	Hell Hole Recreation Work Station & Storage Facility for USFS	ENG	Environmental	17,923	-	-	-	-	125,000	125,000
14014P	Relicensing - Project Recreation Facilities	ENG	Environmental	1,319,473	-	-	-	-	944,000	944,000
SUBTOTAL POWER DIVISION PROJECTS [MAJOR PROJECTS - AUTHORIZED FOR MFP FINANCE AUTHORITY]										
TOTAL POWER DIVISION PROJECTS										
WATER DIVISION PROJECTS										
WATER DIVISION - EXPANSION PROJECTS										
	<i>Treatment Projects</i>			-						
14046W	Ophir Water Treatment Plant Phase I	ENG	Treatment	349,444	1,000,000	-	-	-	-	1,000,000
17030W	Sunset WTP Expansion - Sludge Pond Ph 2 & Misc	ENG	Treatment	64,326	4,000,000	-	-	-	-	4,000,000
	Treatment Projects	ENG	Treatment	2,211,325	5,000,000	-	-	-	-	5,000,000
	<i>Treated Water Transmission & Distribution Projects</i>			-						
	Ophir Pipelines - Bickford Ranch Phase I	ENG	TWT&D	-	2,530,000	-	-	-	-	2,530,000
17009W	Ophir WTP Pipeline Phase 1 - Newcastle Tank to Foothill WTP	ENG	TWT&D	103,901	2,500,000	-	-	-	-	2,500,000
	Treated Water Transmission & Distribution Projects	ENG	TWT&D	103,901	5,030,000	-	-	-	-	5,030,000
	<i>Planning Projects</i>			-						
	Water Resources Plan	ENG	Planning	-	50,000	-	-	-	-	50,000
	Planning Projects	ENG	Planning	-	50,000	-	-	-	-	50,000

2019 Capital Investment Program

Project No.	Project Description	Project Lead	Project Type	Project-to-Date Available Balance	WCC	Rates	Grants	Reserves	Middle Fork Project	2019 TOTAL
SUBTOTAL WATER DIVISION - EXPANSION PROJECTS										
					10,080,000	-	-	-	-	10,080,000
WATER DIVISION - RATES PROJECTS										
	<i>Treatment Projects</i>			75,000						
	Bowman WTP Air Scour Blower Replacement	ENG	Treatment	-	-	150,000	-	-	-	150,000
	Bowman WTP Upgrades - Phase 3- Filter Rebuild Eff Mtr	ENG	Treatment	-	-	600,000	-	-	-	600,000
	Treatment Projects	ENG	Treatment	75,000	-	750,000	-	-	-	750,000
	<i>Treated Water Transmission & Distribution Projects</i>			450,000						
18010W	Advanced Metering Infrastructure (AMI) Expansion Ph2	ENG	TWT&D	243,923	-	100,000	-	-	-	100,000
	Alta Bonny Nook Rd. UPRR Crossing	ENG	TWT&D	-	-	50,000	-	-	-	50,000
	Treated Water Transmission & Distribution Projects	ENG	TWT&D	693,923	-	150,000	-	-	-	150,000
	<i>Raw Water Transmission & Distribution Projects</i>			600,000						
16005W	Foothill Raw Water Supply Pipeline	ENG	RWT&D	62,880	-	6,750,000	-	6,750,000	-	13,500,000
18011W	Hayford Siphon Phase 2	ENG	RWT&D	88,800	-	300,000	-	-	-	300,000
	Moore Canal Fish Screen Design	ENG	RWT&D	-	-	200,000	300,000	-	-	500,000
	Newcastle Irrigation Line	ENG	RWT&D	-	-	50,000	-	-	-	50,000
	Raw Water Transmission & Distribution Projects	ENG	RWT&D	751,680	-	7,300,000	300,000	6,750,000	-	14,350,000
	<i>Raw Water Storage Projects</i>			-						
17011W	Lake Alta Dam Modifications	ENG	RW Storage	691,451	-	200,000	-	-	-	200,000

2019 Capital Investment Program

Project No.	Project Description	Project Lead	Project Type	Project-to-Date Available Balance	WCC	Rates	Grants	Reserves	Middle Fork Project	2019 TOTAL
	Raw Water Storage Projects	ENG	RW Storage	691,451	-	200,000	-	-	-	200,000
	<i>Field Services Projects</i>									
	2019 Field Services RW/CIP	FIELD	Various	214,934	-	585,000	-	-	-	585,000
	2019 Field Gunitite CIP	FIELD	Various	613,571	-	1,000,000	-	-	-	1,000,000
	2019 Field Services TW/CIP	FIELD	Various	368,441	-	735,000	-	-	-	735,000
	Field Services Projects	FIELD	Various	1,196,946	-	2,320,000	-	-	-	2,320,000
	SUBTOTAL WATER DIVISION - RATES PROJECTS									
	TOTAL WATER DIVISION PROJECTS									
					\$ 10,080,000	10,720,000	300,000	6,750,000	-	17,770,000
					\$ 10,080,000	10,720,000	300,000	8,085,000	11,624,000	40,809,000

Five Year Capital Investment Program



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2019 Capital Investment Program - Five Year Plan

Project No.	Project Description	Project Lead	Project Type	Project-to-Date Available Balance	Adopted 2019	Projected 2020	Projected 2021	Projected 2022	Projected 2023	TOTAL 2019-2023
AGENCY WIDE PROJECTS										
09018A	American River Water Rights Extension	ENG	Water Supply	\$ 1,624,722	710,000	335,000	35,000	35,000	-	1,115,000
18018W	CVP Long Term Contract	SA	Water Supply	134,485	350,000	-	-	-	-	350,000
14056W	RiverArc	ENG	Planning	161,195	125,000	-	-	-	-	125,000
	Various HVAC/Environmental Control Upgrades	ENG	Miscellaneous	-	100,000	375,000	-	-	-	475,000
	Water Resources Plan	ENG	Water Supply	-	50,000	50,000	-	-	-	100,000
	TOTAL AGENCY WIDE PROJECTS				1,335,000	760,000	35,000	35,000	-	2,165,000
POWER DIVISION PROJECTS (MINOR PROJECTS FOR MFP FINANCE AUTHORITY)										
14005P	Project Wide Security Surveillance Improvements	PWR	Planning	575,000	275,000	-	-	-	-	275,000
13018P	Penstock Int Coating Insp	PWR	Penstock	72,613	100,000	-	-	-	-	100,000
	SUBTOTAL POWER DIVISION PROJECTS [MINOR PROJECTS FOR MFP FINANCE AUTHORITY]				375,000	-	-	-	-	375,000
POWER DIVISION PROJECTS (MAJOR PROJECTS - AUTHORIZED FOR MFP FINANCE AUTHORITY)										
	<i>Major Projects Stand-Alone</i>									
17019W	ERP System Analysis & RFP	Admin	Computer Systems	579,845	500,000	500,000	-	-	-	1,000,000
17004P	French Meadows Forest Management	PWR	Environmental	78,008	750,000	650,000	250,000	100,000	50,000	1,800,000
12029A	Project Wide SCADA Reliability Upgrades	PWR	SCADA	226,063	100,000	-	-	-	-	100,000
12003P	Project Wide Slope Stability Above MFP Infrastructure	PWR		349,249	300,000	100,000	-	-	-	400,000
17013P	Sediment Removal	PWR	Plant	1,557,456	-	-	-	1,500,000	2,500,000	4,000,000
	<i>French Meadows Powerhouse Reliability Upgrades</i>			350,000						

2019 Capital Investment Program - Five Year Plan

Project No.	Project Description	Project Lead	Project Type	Project-to-Date Available Balance	Adopted 2019	Projected 2020	Projected 2021	Projected 2022	Projected 2023	TOTAL 2019-2023
17028P	FMPH Generator Excitation System Replacement	PWR	Plant	97,813	250,000	-	-	-	-	250,000
15011P	FMPH Cooling and Sump Pumps Control Upgrade	PWR	Plant	-	200,000	250,000	-	-	-	450,000
	FMPH HVAC Upgrade	PWR	Plant	-	200,000	-	-	-	-	200,000
	FMPH Generator Protection Upgrade	PWR	Plant	-	50,000	100,000	-	-	-	150,000
	FMPH XFMR, Bus, & T-Line Protection Replacement	PWR	Plant	-	-	50,000	100,000	-	-	150,000
	FMPH Unit Control Board Upgrade	PWR	Plant	-	-	-	20,000	100,000	-	120,000
	Plant RTU Replacement	PWR	Plant	-	-	-	50,000	150,000	-	200,000
18013P	FM Penstock Coupling Investigation	PWR	Plant	76,494	250,000	-	-	-	-	250,000
	FMPH Thrust Bearing Lift Pump Installation	PWR	Plant	-	-	-	-	-	200,000	200,000
14035P	FMPH Battery Room Addition	PWR	Plant	111,000	500,000	-	-	-	-	500,000
14007P	French Meadows Powerhouse Reliability Upgrades	PWR	Plant	635,307	1,450,000	400,000	170,000	250,000	200,000	2,470,000
	<i>Hell Hole Powerhouse Reliability Upgrades</i>			<i>343,386</i>						
12016P	Hell Hole Substation Rebuild	PWR	Plant	300,159	-	700,000	-	-	-	700,000
14003P	Hell Hole Powerhouse Reliability Upgrades	PWR	Plant	643,545	-	700,000	-	-	-	700,000
	<i>Middle Fork Powerhouse Reliability Upgrades</i>			<i>1,324,827</i>						
	MEPH HVAC Upgrade	PWR	Plant	-	200,000	-	-	-	-	200,000
	MEPH XFMR & Bus Protection Replacement	PWR	Plant	-	-	50,000	100,000	-	-	150,000
	MEPH Unit Control Board Upgrade	PWR	Plant	-	-	-	-	-	50,000	50,000
	MEPH Plant RTU Replacement	PWR	Plant	-	-	-	-	-	50,000	50,000

2019 Capital Investment Program - Five Year Plan

Project No.	Project Description	Project Lead	Project Type	Project-to-Date Available Balance	Adopted 2019	Projected 2020	Projected 2021	Projected 2022	Projected 2023	TOTAL 2019-2023
13025P	MPPH Switchyard Upgrades	PWR	Plant	25,259	2,000,000	1,000,000	1,000,000	-	-	4,000,000
18014P	MF Penstock Coupling Investigation	PWR	Plant	150,000	500,000	-	-	-	-	500,000
14009P	Middle Fork Powerhouse Reliability Upgrades	PWR	Plant	1,500,086	2,700,000	1,050,000	1,100,000	-	100,000	4,950,000
	<i>Oxbow Powerhouse Reliability Upgrades</i>			<i>452,315</i>						
13008P	OXPH Governor Upgrades	PWR	Plant	174,681	500,000	-	-	-	-	500,000
	OXPH Generator Excitation System Replacement	PWR	Plant	-	50,000	450,000	-	-	-	500,000
	OXPH HVAC Upgrade	PWR	Plant	-	200,000	-	-	-	-	200,000
	OXPH Generator Protection Upgrade	PWR	Plant	-	-	-	50,000	100,000	-	150,000
	OXPH XFMR, Bus, & T-Line Protection Replacement	PWR	Plant	-	-	-	50,000	100,000	-	150,000
	OXPH Intake Gate Hoist Replacement	PWR	Plant	-	-	-	-	-	650,000	650,000
14010P	Oxbow Powerhouse Reliability Upgrades	PWR	Plant	626,996	750,000	450,000	100,000	200,000	650,000	2,150,000
	<i>Ralston Powerhouse Reliability Upgrades</i>			<i>547,907</i>						
	RAPH HVAC Upgrade	PWR	Plant	-	200,000	-	-	-	-	200,000
	RAPH XFMR & Bus Protection Replacement	PWR	Plant	-	-	-	100,000	-	-	100,000
	RAPH Unit Control Board Upgrade	PWR	Plant	-	-	-	-	20,000	100,000	120,000
	RAPH Plant RTU Replacement	PWR	Plant	-	-	-	-	50,000	150,000	200,000
13032P	RAPH Switchyard Upgrades	PWR	Plant	288,421	1,500,000	-	-	-	-	1,500,000
18015P	RA Penstock Coupling Investigation	PWR	Plant	106,347	500,000	-	-	-	-	500,000
	RAPH - Penstock Access Improvements	PWR	Plant	-	200,000	400,000	-	-	-	600,000

2019 Capital Investment Program - Five Year Plan

Project No.	Project Description	Project Lead	Project Type	Project-to-Date Available Balance	Adopted 2019	Projected 2020	Projected 2021	Projected 2022	Projected 2023	TOTAL 2019-2023
14029P	RAPH Tunnel Intake Trash Rack Cleaner Upgrade	PWR	Plant	40,000	250,000	-	-	-	-	250,000
14012P	Ralston Powerhouse Reliability Upgrades	PWR	Plant	982,675	2,650,000	400,000	100,000	70,000	250,000	3,470,000
<i>Relicensing - Project Infrastructure</i>				<i>1,740,275</i>						
09009A	HH Seasonal Storage	PWR	Plant	5,511	-	-	-	5,000,000	-	5,000,000
14041P	HH Dam Core Raise	PWR	Plant	6,494,571	500,000	-	-	-	-	500,000
12017P	HH Outlet Works Upgrade	PWR	Plant	158,595	-	90,000	1,331,000	-	-	1,421,000
	LL Anderson Outlet Works Upgrade	PWR	Plant	-	375,000	-	-	-	-	375,000
	Ibay Outlet Works Upgrade and Stream Gage Installation	PWR	Plant	-	-	750,000	-	-	-	750,000
12018P	Duncan Creek Diversion Dam Upgrade & Trail	ENG	Plant	260,494	-	1,000,000	4,000,000	-	-	5,000,000
	South Fork Long Canyon Diversion Upgrade	PWR	Plant	-	-	-	-	150,000	2,300,000	2,450,000
15016P	MFP Cooperative Road Management	PWR	Plant	-	230,000	229,000	229,000	-	-	688,000
14013P	Relicensing - Project Infrastructure	PWR	Plant	8,659,446	1,105,000	2,069,000	5,560,000	5,150,000	2,300,000	16,184,000
<i>Relicensing - Project Recreation Facilities</i>				<i>508,201</i>						
14018P	Abay Picnic Area, Boat Ramp, MF Stream Gage Trail Improvements and Indian Bar Access Trail Construction	ENG	Environmental	137,992	205,000	80,400	405,800	46,600	-	737,800
14020P	FM Boat Ramp Extension	ENG	Environmental	158,077	35,000	5,000	-	-	51,500	91,500
	FM Picnic Area	ENG	Environmental	-	105,000	27,900	-	219,280	74,720	426,900
	FM North Shore Water Supply	ENG	Environmental	-	-	-	-	-	42,400	42,400
14019P	FM RV Dump Station and Campground	ENG	Environmental	131,141	80,000	40,100	1,919,690	23,310	-	2,063,100

2019 Capital Investment Program - Five Year Plan

Project No.	Project Description	Project Lead	Project Type	Project-to-Date Available Balance	Adopted 2019	Projected 2020	Projected 2021	Projected 2022	Projected 2023	TOTAL 2019-2023	
15009P	FM South Shore Water Supply	ENG	Environmental	147,520	94,000	126,600	-	338,200	23,300	582,100	
	HH and Big Meadows Campgrounds	ENG	Environmental	-	-	-	-	-	227,500	227,500	
14017P	HH Boat Ramp Extension	ENG	Environmental	218,619	150,000	55,697	-	-	73,800	279,497	
	HH Boat Ramp Parking & Potable Water, HH General Parking	ENG	Environmental	-	150,000	155,697	37,500	73,800	304,700	721,697	
	HH Upper Campground	ENG	Environmental	-	-	-	65,600	17,900	-	83,500	
	McGuire Picnic Area Conversion to Group Campground and Lewis Campground	ENG	Environmental	-	-	-	-	-	109,500	109,500	
14042P	MPPH Pedestrian Bypass	ENG	Environmental	-	-	126,000	60,000	-	-	186,000	
16012P	Hell Hole Recreation Work Station & Storage Facility for USFS	ENG	Environmental	17,923	125,000	55,292	-	201,500	-	381,792	
14014P	Relicensing - Project Recreation Facilities	ENG	Environmental	1,319,473	944,000	672,686	2,488,590	920,590	907,420	5,933,286	
SUBTOTAL POWER DIVISION PROJECTS [MAJOR PROJECTS - AUTHORIZED FOR MFP FINANCE AUTHORITY]											
					11,249,000	6,991,686	9,768,590	8,190,590	6,957,420	43,157,286	
TOTAL POWER DIVISION PROJECTS					11,624,000	6,991,686	9,768,590	8,190,590	6,957,420	43,532,286	
WATER DIVISION PROJECTS											
WATER DIVISION - EXPANSION PROJECTS											
	<i>Treatment Projects</i>			-							
14046W	Ophir Water Treatment Plant Phase I	ENG	Treatment	349,444	1,000,000	-	-	-	-	1,000,000	
17030W	Sunset WTP Expansion - Sludge Pond Ph.2 & Misc	ENG	Treatment	64,326	4,000,000	-	-	-	-	4,000,000	
	Treatment Projects	ENG	Treatment	2,211,325	5,000,000	-	-	-	-	5,000,000	
<i>Treated Water Transmission & Distribution Projects</i>											
	Barton Rd. Pipeline - Phase 1 (La Vista Dr. to Brace Rd.)	ENG	TWT&D	-	-	-	-	-	500,000	500,000	

2019 Capital Investment Program - Five Year Plan

Project No.	Project Description	Project Lead	Project Type	Project-to-Date Available Balance	Adopted 2019	Projected 2020	Projected 2021	Projected 2022	Projected 2023	TOTAL 2019-2023	
I7010W	Foothill PRV Station - Ophir Phase 1 Conveyance Improvements	ENG	TWT&D	-	-	-	-	640,000	-	640,000	
	Ophir Pipelines - Bickford Ranch Phase 1	ENG	TWT&D	-	2,530,000	3,500,000	3,000,000	2,500,000	2,500,000	14,030,000	
I6022W	Placer Parkway Pipeline (Bridge Sections Only)	ENG	TWT&D	470,368	-	1,900,000	-	-	-	1,900,000	
I7009W	Ophir WTP Pipeline Phase 1 - Newcastle Tank to Foothill WTP	ENG	TWT&D	103,901	2,500,000	-	-	-	-	2,500,000	
	Treated Water Transmission & Distribution Projects	ENG	TWT&D	574,269	5,030,000	5,400,000	3,000,000	3,140,000	3,000,000	19,570,000	
	<i>Raw Water Transmission & Distribution Projects</i>			<i>1,965,000</i>							
	Rock Creek Reservoir Pipeline and Pump Station	ENG	RWT&D	-	-	-	251,000	1,594,000	298,000	2,143,000	
I5010W	Sunset WTP Expansion - Gunite	ENG	RWT&D	344,395	-	-	-	460,000	-	460,000	
	Raw Water Transmission & Distribution Projects	ENG	RWT&D	2,309,395	-	-	251,000	2,054,000	298,000	2,603,000	
	<i>Treated Water Storage Projects</i>			<i>-</i>							
I4048W	Songbird 10 MG Tank and Related Pipeline within Whitney Ranch Parkway	ENG	TW Storage	1,736,902	-	-	-	-	8,000,000	8,000,000	
	Treated Water Storage Projects	ENG	TW Storage	1,736,902	-	-	-	-	8,000,000	8,000,000	
	<i>Planning Projects</i>			<i>-</i>							
I7024W	Water System Modeling and Planning	ENG	Planning	11,607	-	100,000	-	-	100,000	200,000	
	Water Resources Plan	ENG	Planning	-	50,000	50,000	-	-	-	100,000	
	Planning Projects	ENG	Planning	11,607	50,000	150,000	-	-	100,000	300,000	
	SUBTOTAL WATER DIVISION - EXPANSION PROJECTS				10,080,000	5,550,000	3,251,000	5,194,000	11,398,000	35,473,000	
	WATER DIVISION - RATES PROJECTS										
	<i>Treatment Projects</i>			<i>75,000</i>							
	Alta WTP Carbon Feed Building	ENG	Treatment	-	-	-	-	50,000	75,000	125,000	

2019 Capital Investment Program - Five Year Plan

Project No.	Project Description	Project Lead	Project Type	Project-to-Date Available Balance	Adopted 2019	Projected 2020	Projected 2021	Projected 2022	Projected 2023	TOTAL 2019-2023
	Arc Flash Program	ENG	Treatment	-	-	-	-	75,000	75,000	150,000
	Bowman WTP Air Scour Blower Replacement	ENG	Treatment	-	150,000	-	-	-	-	150,000
	Bowman WTP Upgrades - Phase 3- Filter Rebuild Eif Mtr	ENG	Treatment	-	600,000	-	-	-	-	600,000
	Bowman WTP Upgrades - Phase 4- Flocculator Basin Rebuild	ENG	Treatment	-	-	-	-	125,000	750,000	875,000
I8005W	Colfax WTP Replacement	ENG	Treatment	99,594	-	-	500,000	-	-	500,000
	Foothill WTP Physical Data Center	ENG	Treatment	-	-	50,000	-	-	-	50,000
I7022W	Foothill Structural Repairs	ENG	Treatment	18,232	-	-	400,000	-	-	400,000
	Monte Vista Redundant Filter	ENG	Treatment	-	-	-	50,000	200,000	-	250,000
	Treatment Projects	ENG	Treatment	192,826	750,000	50,000	950,000	450,000	900,000	3,100,000
	<i>Treated Water Transmission & Distribution Projects</i>			450,000						
I8010W	Advanced Metering Infrastructure (AMI) Expansion Ph2	ENG	TWT&D	243,923	100,000	100,000	100,000	100,000	100,000	500,000
	Alta Bonny Nook Rd. UPRR Crossing	ENG	TWT&D	-	50,000	500,000	-	-	-	550,000
I8022W	Alta Loop Pipeline (Cable/Powerhouse Rd.)	ENG	TWT&D	247,746	-	-	1,500,000	-	-	1,500,000
	Applegate Intertie/Meadow Vista	ENG	TWT&D	-	-	-	-	100,000	400,000	500,000
	Bowman Treated Water Pipe Replacement, WTP to Bowman Rd.	ENG	TWT&D	-	-	-	-	200,000	1,300,000	1,500,000
	Covey Road Pipe Replacement	ENG	TWT&D	-	-	-	-	100,000	500,000	600,000
	Grandview PRS Improvements	ENG	TWT&D	-	-	25,000	-	-	-	25,000
	High Street from Elm to East Placer Pipeline Replacement	ENG	TWT&D	-	-	-	-	250,000	1,000,000	1,250,000
	Old State Highway - Buena Vista to Taylor Road	ENG	TWT&D	-	-	-	-	100,000	400,000	500,000
	Robie Point Access Road Pipeline Replacement	ENG	TWT&D	-	-	-	840,000	-	-	840,000
	Sunset Boulevard Pipeline	ENG	TWT&D	-	-	-	500,000	3,500,000	-	4,000,000

2019 Capital Investment Program - Five Year Plan

Project No.	Project Description	Project Lead	Project Type	Project-to-Date Available Balance	Adopted 2019	Projected 2020	Projected 2021	Projected 2022	Projected 2023	TOTAL 2019-2023
	Treated Water Transmission & Distribution Projects	ENG	TWT&D	941,669	150,000	625,000	2,940,000	4,350,000	3,700,000	11,765,000
	<i>Raw Water Transmission & Distribution Projects</i>			600,000						
I8023W	Ben Franklin Canal - Pipe Repair STA 9 to STA 20	ENG	RWT&D	79,328	-	100,000	600,000	-	-	700,000
I6005W	Foothill Raw Water Supply Pipeline	ENG	RWT&D	62,880	13,500,000	500,000	-	-	-	14,000,000
I8011W	Hayford Siphon Phase 2	ENG	RWT&D	88,800	300,000	3,200,000	-	-	-	3,500,000
	Kilmer Siphon Replacement	ENG	RWT&D	-	-	-	-	100,000	600,000	700,000
I5006W	Lower Banvard Pipe (Lozanos Rd.)	ENG	RWT&D	39,609	-	-	-	-	600,000	600,000
I8009W	Lower Banvard Pipe (I-80 Crossing Auburn)	ENG	RWT&D	32,871	-	800,000	-	-	-	800,000
	Moore Canal Fish Screen Design	ENG	RWT&D	-	500,000	-	-	-	-	500,000
	Newcastle Irrigation Line	ENG	RWT&D	-	50,000	-	-	-	-	50,000
	Ophir/Combie Canal Upsize	ENG	RWT&D	-	-	-	-	-	1,000,000	1,000,000
	Raw Water Canal Automation	ENG	RWT&D	-	-	100,000	100,000	100,000	100,000	400,000
	Rock Creek Reservoir Pipeline and Pump Station	ENG	RWT&D	-	-	-	334,000	2,126,000	397,000	2,857,000
	South Sutter Automation	ENG	RWT&D	-	-	-	100,000	100,000	100,000	300,000
	Raw Water Transmission & Distribution Projects	ENG	RWT&D	903,488	14,350,000	4,700,000	1,134,000	2,426,000	2,797,000	25,407,000
	<i>Treated Water Storage Projects</i>			-						
	Alta Redwood Tank Replacement	ENG	TW Storage	-	-	50,000	450,000	-	-	500,000
I7015W	Applegate Tank Replacement	ENG	TW Storage	30,284	-	-	-	-	400,000	400,000
	Monte Vista Redwood Tank Replacement	ENG	TW Storage	-	-	-	50,000	250,000	-	300,000
	Tank Recoating (Stanford Ranch)	ENG	TW Storage	-	-	-	800,000	-	-	800,000
	Treated Water Storage Projects	ENG	TW Storage	30,284	-	50,000	1,300,000	250,000	400,000	2,000,000

2019 Capital Investment Program - Five Year Plan

Project No.	Project Description	Project Lead	Project Type	Project-to-Date Available Balance	Adopted 2019	Projected 2020	Projected 2021	Projected 2022	Projected 2023	TOTAL 2019-2023
	<i>Raw Water Storage Projects</i>			-						
	Alta Forebay Desilt	ENG	RW Storage	-	-	-	1,000,000	-	-	1,000,000
	Caperton Reservoir Improvements	ENG	RW Storage	-	-	-	100,000	-	-	100,000
	Lake Arthur Emergency Action Plan	ENG	RW Storage	-	120,000	-	-	-	-	120,000
	Lake Theodore Emergency Action Plan	ENG	RW Storage	-	120,000	-	-	-	-	120,000
I7011W	Lake Alta Dam Modifications	ENG	RW Storage	691,451	200,000	1,320,000	-	-	-	1,520,000
	Raw Water Storage Projects	ENG	RW Storage	691,451	200,000	1,560,000	1,100,000	-	-	2,860,000
	<i>Groundwater Projects</i>			-						
	Well Demolition - Bianchi Estates	ENG	Groundwater	-	-	-	-	-	50,000	50,000
	Groundwater Projects	ENG	Groundwater	-	-	-	-	-	50,000	50,000
	<i>Field Services Projects</i>			-						
	2019 Field Services RWCIP	FIELD	Various	214,934	585,000	567,430	367,430	367,430	367,430	2,254,720
	2019 Field Guniting CIP	FIELD	Various	613,571	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	5,000,000
	2019 Field Services TWCIP	FIELD	Various	368,441	735,000	632,570	632,570	632,570	632,570	3,265,280
	Field Services Projects	FIELD	Various	1,196,946	2,320,000	2,200,000	2,000,000	2,000,000	2,000,000	10,520,000
	<i>Other Projects</i>			450,000						
	Asphalt Repair at Agency Facilities	ENG	Miscellaneous	-	-	-	250,000	250,000	-	500,000
I7008W	Colfax Ballpark Tank Slope Stabilization	ENG	Miscellaneous	48,308	-	-	-	-	200,000	200,000
	SCADA - Telemetry Upgrades	DWO	Miscellaneous	-	-	100,000	50,000	50,000	50,000	250,000
I6013W	Water System Security Improvements	ENG	Miscellaneous	128,061	-	100,000	100,000	100,000	100,000	400,000
	Other Projects	ENG	Miscellaneous	626,369	-	200,000	400,000	400,000	350,000	1,350,000

2019 Capital Investment Program - Five Year Plan

Project No.	Project Description	Project Lead	Project Type	Project-to-Date Available Balance	Adopted 2019	Projected 2020	Projected 2021	Projected 2022	Projected 2023	TOTAL 2019-2023
	SUBTOTAL WATER DIVISION - RATES PROJECTS				17,770,000	9,385,000	9,824,000	9,876,000	10,197,000	57,052,000
	TOTAL WATER DIVISION PROJECTS				27,850,000	14,935,000	13,075,000	15,070,000	21,595,000	92,525,000
	TOTAL CIP BUDGET				\$ 40,809,000	22,686,686	22,878,590	23,295,590	28,552,420	138,222,286

Capital Investment Program - 2019 Project Descriptions



Placer County Water Agency

2019

Project Descriptions

AGENCY WIDE PROJECTS

American River Water Rights Extension

This project will prepare the required environmental documents to extend the horizon of perfecting the American River Water Rights to Year 2043. This will include analyzing impacts of increasing PCWA's American River diversions from current levels to 120,000 acre-feet. The areas of analysis will include the American River, Folsom Reservoir, Lower American River, the Central Valley Project and State Water Project areas north of the Delta, the Delta, and expected locations of consumption. The Project also includes negotiations with the Bureau of Reclamation to secure a Long-term Warren Act Contract (LTWAC) for utilization of Folsom Reservoir and Endangered Species Act (ESA) consultation with National Marine Fisheries Service. The necessary environmental documents will be prepared and circulated for public review in early 2019 and the LTWAC negotiation and ESA consultation will extend into 2020.

CVP Long Term Contract

The purpose of this project is to negotiate a long term contract with the Bureau of Reclamation for Central Valley Project water service. The project is a multi-agency effort involving PCWA, City of Roseville, Sacramento County Water Agency, and Sacramento Municipal Utility District and includes the hiring of consultants to perform environmental and water needs analysis.

RiverARC

This project is a large regional project helping provide sustainability and reliability to the water distribution system. It routes water from the Sacramento River to offset the demand from the American River, as well as allows agencies to take advantage of groundwater banking, and unused water rights. The budget for this project reflects the cost of coordination with agencies and planning this project, including CEQA.

Various HVAC/Environmental Control Upgrades

This project includes replacement of existing HVAC units at various locations that are at the end of their useful life.

Water Resources Plan

The purpose of this project is to draft a plan for a comprehensive regional water planning document that focuses on water supply and demand of PCWA's retail area and wholesale partners; including distribution of water supplies through all uses of water (Urban to Agriculture), treated and untreated, through buildout. The project will aid in the future 2020 Urban Water Management Plan, which will be simplified from past efforts to comply solely with the State's

mandated regulations. The budget for this project reflects the cost to conduct partner agency outreach, scope and collect necessary data.

POWER DIVISION PROJECTS

Minor Projects:

Project Wide Security Surveillance Improvements

Middle Fork Project security and surveillance improvements are slated to occur following the MFP Communications upgrade project. The Communications Upgrade will provide high speed, high bandwidth, data and voice communications throughout Project facilities. This will allow the use of electronic key card facility access, remote monitoring of doors and gates, and installation of video surveillance cameras. In addition, lighting and physical security improvements will be made.

Penstock Interior Coating Inspection

The interior coating of MFP penstocks is a corrosion control system meant to preserve the metal of the penstock (pipe). Periodic inspection is accomplished by the use of submersible remotely operated vehicles. These inspections will inform the Department when it is time to plan an outage, unwater the penstock, and repair or replace the interior penstock coating system.

Major Projects:

Enterprise Resource Planning System

Power System will pay a share of the costs for the replacement of the Agency's existing Enterprise Resource Planning (ERP) software system. The integrated software includes financials, work orders, inventory, and HR.

French Meadows Forest Management

The Agency is partnering with the Tahoe National Forest, The Nature Conservancy, American River Conservancy, the University of California, and Sierra Nevada Research Institute on the French Meadows Forest Resilience Project. The aim of the French Meadows Forest Resilience Project is to increase the pace and scale of forest restoration in a critical municipal watershed, using an approach of ecologically-based forest management.

Project Wide SCADA Reliability Upgrades

This project encompasses equipment upgrades and replacements for the MFP Supervisory Control And Data Acquisition (SCADA) network. These upgrades coincide with the MFP Communications Upgrade Project to insure SCADA network reliability and network cyber security.

Hillside Slope Stability - Middle Fork Project

This project covers geotechnical engineering and slope stability work to protect project infrastructure. This project includes:

1. Monitoring and analysis of rock masses at the Ralston Powerhouse penstock and above the Hell Hole Dam spillway.
2. Middle Fork Penstock Foundation Monitoring Project, which is providing electronic data about potential movement of penstock saddle foundations that are founded on old slide material rather than weathered bedrock.

French Meadows Powerhouse Reliability Upgrades

Powerhouse reliability upgrades encompass projects that will sustain or increase generator availability (the percentage of time a generator is available to be synchronized to the grid and produce electricity) and projects that will improve employee safety.

1. Station 125 VDC Battery Room Addition
2. Plant Cooling Water Intake Straining System and Controls Upgrade
3. Generator Excitation System Replacement
4. Generator Electrical Fault Protection Upgrade
5. Penstock Coupling Investigation
6. Powerhouse HVAC Upgrade

Middle Fork Powerhouse Reliability Upgrades

Powerhouse reliability upgrades encompass projects that will sustain or increase generator availability (the percentage of time a generator is available to be synchronized to the grid and produce electricity) and projects that will improve employee safety.

1. High Voltage Switchyard Upgrades
2. Penstock Coupling Investigation
3. Powerhouse HVAC Upgrade

Oxbow Powerhouse Reliability Upgrades

Powerhouse reliability upgrades encompass projects that will sustain or increase generator availability (the percentage of time a generator is available to be synchronized to the grid and produce electricity) and projects that will improve employee safety.

1. Turbine Governor Upgrades
2. Generator Excitation System Replacement
3. Powerhouse HVAC Upgrade

Ralston Powerhouse Reliability Upgrades

Powerhouse reliability upgrades encompass projects that will sustain or increase generator availability (the percentage of time a generator is available to be synchronized to the grid and produce electricity) and projects that will improve employee safety.

1. High Voltage Switchyard Upgrades
2. Penstock Coupling Investigation
3. Powerhouse HVAC Upgrade
4. Tunnel Intake Trash Rack Cleaner Upgrade
5. Upper Penstock Access Improvements

FERC License Implementation - Project Infrastructure

These capital projects consist of infrastructure work required under the new FERC license. The work includes:

1. LL Anderson Dam Low Level Outlet Works Upgrade will improve the monitoring and control of minimum stream flow and pulse flow releases to meet new FERC License requirements, as well as add a micro-hydroelectric generator to supply power to the new microwave communications site at the dam.
2. Hell Hole Dam Core Raise: California Department of Safety Of Dams (DSOD) has requested that due to current Probable Maximum Flood (PMF) levels that are much higher than the original design criteria, and the fact that the dam's impermeable core is five feet below the dam's existing crest, the Agency will raise the dam core to meet current PMF reservoir elevations. Construction is planned for 2019.
3. Middle Fork Cooperative Road Management: The new FERC License will include a Transportation Management Plan that specifies maintenance for the 47 Project roads that provide access to MFP facilities.

FERC License Implementation - Project Recreation Facilities

This project consists of work to rehabilitate recreational facilities that will be required by the new FERC license. The work includes:

1. Afterbay Picnic Area, Cartop Boat Ramp, MF Stream Gage Trail Improvements, and Indian Bar Access Area: This work will construct or improve recreation facilities in the vicinity of Ralston Afterbay.
2. French Meadows Boat Ramp Extension and Picnic Area: This work will extend the boat ramp and improve the picnic area at French Meadows Reservoir.
3. French Meadows RV Dump Station and Campground: This work will rehabilitate an RV dump station and improve the campgrounds at French Meadows Reservoir.
4. French Meadows South Shore Water Supply: This project will rehabilitate/reconstruct the potable water supply for the French Meadows Campgrounds.

5. Hell Hole Boat Ramp Extension and Parking, General Parking, and Potable Water: This work is at the Hell Hole boat launch area. It will extend the boat ramp, upgrade the general parking areas, and provide a potable water supply in the vicinity of the ramp.
6. Hell Hole Recreation Work Station and Storage Facility: This is a 4E FERC License requirement, the Agency will build a recreation support facility in the Hell Hole area within five years of license issuance. This funding will cover the initial project scoping and design effort.

WATER DIVISION PROJECTS

Water Connection Charge Expansion Projects:

Treatment Projects

Treatment projects include repair, modification, or installation of new infrastructure related to water treatment plants and/or their processes that result in producing potable drinking water from source water supplies.

1. Ophir Water Treatment Plant Phase 1 - Construction of a new water treatment plant located on Ophir Road. Rated capacity of initial phase of the WTP is 10 MGD. The initial improvements will allow for future expansion of the plant. In 2019, a small portion of the project will be constructed in order to complete the requirements set forth in some of the existing permits. The work will include the installation of a culvert and the extension of pipelines and conduit beyond the wetland area of the project.
2. Sunset WTP Expansion - Sludge Pond Phase 2 & Misc. - This project includes improvements to the solids handling facilities in order to reliably process eight MGD at the Sunset WTP for extended durations of time. The scope includes constructing settling tanks, sludge drying beds, pumps, electrical, instrumentation, and control improvements to process the solids.

Treated Water Transmission and Distribution Projects

Treated Water Transmission and Distribution projects include repair, modification, or installation of new infrastructure related to the treated water system. The infrastructure includes, but is not limited to, pipelines, pressure reducing stations, valves, meters, pump stations, buildings, electrical systems and instrumentation, and other components related to distributing treated water to wholesale and retail customers.

1. Ophir Pipelines - Bickford Ranch Phase 1 - This project includes all anticipated annual costs for design and construction of Agency-initiated transmission infrastructure through the Bickford Ranch Development Project. Infrastructure will be needed for future phases of Ophir Water Treatment Plant, however, construction of facilities are to occur during the construction of the development.

Construction of these facilities are to be done by the developers' contractors and reimbursed upon completion.

2. Ophir WTP Pipeline Phase 1 - Newcastle Tank to Foothill WTP - This project extends an 18" pipe near the Newcastle Tank to the Foothill WTP to provide distribution capacity for the Ophir WTP Phase 1 (10 MGD) project. This is necessary to bring Ophir WTP online prior to the completion of the Bickford Ranch Development Project, which is part of Ophir WTP Phase 2 (20 MGD).

Planning Projects

Planning projects analyze proposed infrastructure alternatives necessary to expand capacity of water systems to serve new development. Analyses include demand forecasting, evaluating available capacity, hydraulic modeling, feasibility studies, cost estimates and financial studies. Infrastructure includes all components, from water supply through distribution. Results of these projects are compiled into technical memorandums, reports, and/or masterplans.

1. Water Resources Plan - The purpose of this project is to draft a plan for a comprehensive regional water planning document that focuses on water supply and demand of PCWA's retail area and wholesale partners, including distribution of water supplies through all uses of water (Urban to Agriculture), treated and untreated, through buildout. The project will aid in the future 2020 Urban Water Management Plan, which will be simplified from past efforts to comply solely with the State's mandated regulations. The budget for this project reflects the cost to conduct partner agency outreach, scope, and collect necessary data.

Rates Projects:

Treatment Projects

Treatment projects include repair, modification, or installation of new infrastructure related to water treatment plants and/or their processes that result in producing potable drinking water from source water supplies.

1. Bowman WTP Air Scour Blower Replacement - This project will replace the air scour blower and controls for the Bowman WTP.
2. Bowman WTP Upgrades Phase 3 - Filter Rebuild and Effluent Meter - The purpose of this project is to replace the filter media and underdrain systems and associated appurtenances.

Treated Water Transmission and Distribution Projects

Treated Water Transmission and Distribution projects include repair, modification, or installation of new infrastructure related to the treated water system. The infrastructure includes, but is not limited to, pipelines, pressure reducing stations, valves, meters, pump stations, buildings,

electrical systems and instrumentation, and other components related to distributing treated water to wholesale and retail customers.

1. Advanced Metering Infrastructure (AMI) Expansion Phase 2 - Continue to study various options for equipment reliability, data management, and data hosting requirements, and planning level costs and recurring fees of an AMI system. Goals for 2019 will include testing reliability of a fixed network system to further define what works best for PCWA. Staff will document lessons learned from Phase 1 and conduct a study of AMI data use which may include possible procedure changes, policies related to the data and outlining data needs for regulations.
2. Alta Bonny Nook Rd. UPRR Crossing - This scope of this project includes replacing approximately 100 feet of 6" ductile iron distribution main that runs beneath the United Pacific Railroad (UPRR) tracks south of Alta Bonny Nook Rd. in Alta, CA. The existing pipe runs through a UPRR concrete culvert and was damaged in the winter of 2017. A temporary pipe has been in place since that time. UPRR intends to replace the culvert as it was also damaged and PCWA's pipe will be replaced in conjunction with this culvert replacement.

Raw Water Transmission and Distribution Projects

Raw Water Transmission and Distribution projects include repair, modification, or installation of new infrastructure related to the raw water system. The infrastructure includes, but is not limited to, pipelines, pressure reducing stations, valves, meters, pump stations, buildings, electrical systems and instrumentation, and other components related to distributing raw water to wholesale and retail customers.

1. Foothill Raw Water Pipeline - This project proposes to complete the untreated pipeline between Ophir Pump Station and Foothill Water Treatment Plant in accordance with the 2015 water purchase agreement between PG&E and PCWA. This pipeline will allow PCWA to provide water directly to Foothill Water Treatment during the annual fall outage or in case of an emergency if PG&E's South Canal was unavailable.
2. Hayford Siphon Phase 2 - This project will replace approximately 2,900 LF of 36" riveted steel pipe that is part of the Boardman Canal system. A portion of the pipe crosses beneath the Union Pacific Railroad.
3. Moore Canal Fish Screen Design - The project will design a Department of Fish and Wildlife approved fish screen for the Moore Canal. It is anticipated that a portion of the project will be funded by grants.
4. Newcastle Irrigation Line - The purpose of this project is to evaluate the replacement and/or abandonment of approximately one mile of irrigation pipe that crosses State Route 193, Interstate 80, and the Union Pacific Railroad.

Raw Water Storage Projects

Raw Water Storage projects include repair, modification, or installation of new infrastructure related to the storage of raw water. The infrastructure includes, but is not limited to, storage tanks, stand pipes, reservoirs, dams, spillways, and associated appurtenances, and electrical systems and instrumentation.

1. Lake Alta Dam Modifications - Improvements are necessary to the two dams to comply with current Division of Safety of Dams (DSOD) requirements. Anticipated work includes raising the dams to meet current freeboard requirements and removing trees that may impact the integrity on the dam.

Field Services Projects

Field Service projects repair and/or replace portions of the system that have deteriorated due to age such as canal guniting, flume components, and sections of pipe and services. The purpose of these projects is to minimize leaks and optimize the efficiency of the water system throughout the year.

1. Raw Water Maintenance Projects - Spring Valley Flume, Alta Tailrace Flume, Nary Red Flume #1 and #2 and Rock Springs Flume.
2. Guniting - Various locations throughout the system.
3. Treated Water Maintenance Projects - Tokayana Way in Colfax and Channing Way in Auburn.

Supplemental Information

WATER FACTS

1 Cubic Foot	=	7.48 GAL
100 Cubic Feet	=	748 GAL
100 Cubic Feet	=	1 CCF (std. bill unit*)
1 Acre Foot**	=	43,560 CF
1 Acre Foot**	=	325,851 GAL
1 CFS	=	448.8 GPM
1 CFS	=	646,272 GPD
1 CFS for 24 hours	=	1.98 AF
1 CFS for 30 days	=	59.5 AF
1 CFS for one year	=	724 AF
1 Gallon	=	8.34 Pounds
1 MGD	=	3.07 AF per day
1 MGD	=	1,120 AF per year
1 Miner's Inch	=	11.22 GPM
1 Miner's Inch	=	16,157 GPD
1 Miner's Inch	=	1.49 AF for 30 days
1 Miner's Inch	=	18.10 AF for 1 year

ABBREVIATIONS

AF	=	Acre foot	GAL	=	Gallon
CF	=	Cubic foot	GPD	=	Gallons per day
CCF	=	100 Cubic feet	GPM	=	Gallons per minute
CFS	=	Cubic foot per second	MGD	=	Million gallons per day

* The Agency bills per unit of measure, which is 100 cubic feet (unit).

** An acre-foot of water is enough to cover one acre of land one foot deep.





PLACER COUNTY WATER AGENCY
SINCE 1957

BOARD OF DIRECTORS

Gray Allen, District 1
Primo Santini, District 2
Mike Lee, District 3
Robert Dugan, District 4
Joshua Alpine, District 5

Einar Maisch, General Manager

BUSINESS CENTER

144 Ferguson Road
MAIL
P.O. Box 6570
Auburn, CA 95604

PHONE

(530) 823-4850
(800) 464-0030

WWW.PCWA.NET

OVERVIEW OF THE PLACER COUNTY WATER AGENCY

Placer County Water Agency (PCWA) was created in 1957 under its own state legislative Act entitled the “Placer County Water Agency Act.” The Agency is self-governed with policy and regulatory decisions determined by an independently elected five member Board of Directors. Highly experienced men and women working together as a team under administrative direction of a General Manager provide Agency services and activities. Since its inception the Agency has been actively involved in Placer County’s 1,500 square miles on a wide variety of water and energy issues.

Agency Wide

Agency officials understand the complexities, interrelationships and importance of sustaining reliable and affordable water and energy for Placer County’s present and future needs. The Agency holds extensive “area of origin” surface water entitlements on the Middle Fork American River and long-term contracts for Yuba River water which are used to serve retail and wholesale customers within Placer County. The Agency is actively involved in numerous collaborative partnerships, watershed stewardship, surface and groundwater management integrated water resource planning, and regional infrastructure projects. These include involvement in water issues affecting the Lake Tahoe and Truckee River, the American River, the Yuba/Bear Rivers, the Sacramento River and the Bay/Delta system. Advocacy for water entitlements and energy resources for all Placer County residents are at the forefront of Agency Wide interests and activities.

Power System

The Agency’s Power System was established with the construction of the Middle Fork American River Hydroelectric Project (MFP) that began in 1963 and was completed in 1967. The Agency owns and operates five interconnected hydroelectric power plants, two large storage reservoirs (French Meadows and Hell Hole), two small regulating reservoirs and twenty-four miles of tunnels. With approximately 347,000 acre-feet of gross water storage capacity and 216.4 megawatts of reliable generating capacity, the MFP produces an average 1 million megawatt hours of hydroelectric power each year that is sold directly to California Independent System Operator (CAISO). This is sufficient to provide reliable power to nearly a quarter of a million retail electricity customers. In addition to energy sales, the MFP also provides energy-related products that are sold through bi-lateral contracts, which includes resource adequacy, renewable energy credits and carbon free credits. The Project also provides important public recreational opportunities enabling public access to lands and reservoirs, including campgrounds and boating facilities as constructed by the Agency and operated through the U.S. Forest Service.

Water System

The Agency’s Water System was established in 1968. It has become the largest water purveyor in the county serving more than 40,000 water accounts. Surface water supplies are purchased from PG&E (from the Yuba/Bear Rivers) and Agency Wide (from the American River). The Agency owns and operates over 165 miles of untreated water canals, ditches, flumes and pipelines in addition to several small reservoirs, most of which were built in the Gold Rush era. A significant amount of Agency untreated water irrigates pastures, orchards, rice fields, farms, ranches, golf courses and landscaping. The Agency owns and operates 8 water treatment plants, 25 water tanks, and over 600 miles of treated water pipelines. Treated surface water is sold directly to Agency customers residing in Auburn, Colfax, Loomis, Rocklin, portions of Roseville and throughout various unincorporated areas of Placer County. Agency treated water is sold wholesale to the City of Lincoln and other purveyors who retail it directly to their customers. The Agency also utilizes groundwater to occasionally supplement surface water supplies when needed in Western Placer County.

Inquiries may be referred to the PCWA Customer Service Center at (530) 823-4850 or via www.pcwa.net.

Placer County Water Agency

BUDGETED POSITIONS As of: November 15, 2018

The following is a summary of budgeted regular positions of the Agency.

GOVERNANCE POSITIONS:

BOARD OF DIRECTORS	5
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STAFF POSITIONS:

REGULAR: Regular positions are also referred to as “full time” or “core” positions and each is budgeted at 2,080 hours annually (40 hour week x 52 weeks). This table represents staff as they are primarily budgeted, although some staff provides support to other divisions. Agency Wide labor and benefit costs are almost entirely allocated to Power and Water Divisions through service level support.

Departments	Agency			Total
	Wide	Power	Water	
General Manager	2			2
Administrative Services	17.5			17.5
Energy Marketing		4		4
Finance	12.5	1		13.5
Legal Office	0.3	0.3	0.3	1
Strategic Affairs	2			2
Customer Services	2		31	33
Field			54	54
Technical Services				
• Drinking Water Operations			35	35
• Engineering		2	25	27
Power Generation		37		37
REGULAR POSITIONS TOTAL	36.3	44.3	145.3	226

Prepared by:



Placer County Water Agency

144 Ferguson Road

Auburn, CA 95603

www.pcwa.net