

CENTRAL VALLEY PROJECT  
FY 2017 vs. FY 2018 O&M COST ESTIMATE ANALYSIS  
M&I

	<u>2017</u>	<u>2018</u>	<u>Variance</u>	<u>% Change</u>	Explanation of significant decrease/ increase in cost
<b><u>Storage</u></b>					
American River	\$ 10,847	\$ 10,847	-		
Black Butte Reservoir	24,642	23,346	(1,296)	-5%	
Columbia-Mowry System	28,486	28,734	248	1%	
Coleman National Fish Hatchery	418,633	428,204	9,571	2%	
Delta Cross Channel	13,318	13,318	-	0%	
Folsom Dam & Reservoir	178,860	178,860	-	0%	
Folsom Pumping Plant	158,941	143,005	(15,936)	-10%	
Friant Dam & Reservoir	197,113	201,515	4,402	2%	
Gianelli, WR PGP	712,675	843,957	131,282	18%	
Less: Gianelli Credit	(640,065)	(622,528)	17,537	-3%	
Hill, CA Whiskeytown Dam	34,968	34,968	-	0%	
New Melones Dam & Reservoir			-		
Nimbus Dam & Reservoir	23,432	23,432	-	0%	
Sacramento River	17,797	17,297	(500)	-3%	
San Joaquin River	14,603	14,603	-	0%	
Security Costs	547,058	596,622	49,564	9%	
Shasta Dam & Reservoir	307,440	286,769	(20,671)	-7%	
Sisk, BF San Luis Dam	2,063,638	2,108,822	45,184	2%	
Trinity Dam & Reservoir	13,102	13,102	-	0%	
Water Forum - American River Div.	9,059	9,059	-	0%	
<b>Total Storage</b>	<b>4,134,547</b>	<b>4,353,932</b>	<b>219,385</b>	<b>5%</b>	Overall increase is below materiality of 10%. No further action is required.

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<b><u>Conveyance</u></b>					
DMC Regulatory Actions	6,597	6,597	-	0%	
Delta Barrier			-		
Hydrologic operating Modeling-Delta Division	1,456	1,456	-	0%	
Water Wheeling			-		
DMC Subsidence Study			-		
Friant-Kern Canal	2,716	2,716	-	0%	
Los Banos Creek Detention Dam-Maint. Joint	88	88	-	0%	
Red Bluff Diversion Dam			-		
Reservoir & River operationsAmerican River Division			-		
San Luis Canal	742	742	-		
Tehama-Colusa Canal	990	500	(490)	-49%	
Tehama-Colusa Fish Facilities			-		
Total	12,589	12,099	(490)	-4%	
Folsom-South Canal (Rates)	65,600	65,600	-	0%	
Total	78,189	77,699	(490)	-1%	
Less Direct billed	(12,589)	(12,099)	490		
<b>Net Conveyance Cost</b>	<b>65,600</b>	<b>65,600</b>	<b>-</b>	<b>0%</b>	Overall increase is below materiality of 10%. No further action is required.
<b><u>Conveyance Pumping</u></b>					
Dos Amigos PP	83,556	55,974	(27,582)	-33%	
O'Neill PGP	336,460	318,435	(18,025)	-5%	
PGP - Credit			-		
Jones Pumping Plant	1,885,854	1,504,577	(381,277)	-20%	Allocation from irrigation to M&I decreased from year before which resulted in part of the change (Based on Estimated Acre-Feet).
Total	2,305,870	1,878,986	(426,884)	-19%	Generally, Project Use Energy Cost decreased by 7% from the estimate included the year before.
Less Direct billed	(2,305,870)	(1,878,986)	426,884		
<b>Net Conveyance Pumping Cost</b>	<b>-</b>	<b>-</b>	<b>-</b>		

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<b><u>Direct Pumping Cost</u></b>					
<b><u>Contra Costa Canal</u></b>					
Contra Costa WD	799,200	926,810	127,610	16%	
<b><u>Cow Creek Unit</u></b>					
Bella Vista WD	69,281	48,664	(20,617)	-30%	
<b><u>Cross Valley Canal</u></b>					
Dos Amigos PP and Banks	3,421	1,829	(1,592)	-47%	
<b><u>San Felipe Unit</u></b>					
San Benito County WD					
Gianelli, WR PGP	24,178	38,239	14,061	58%	
Pacheco PP - Power	42,442	41,745	(697)	-2%	
Santa Clara Valley WD					
Coyote PP - Power	209,754	209,791	37	0%	
Gianelli, WR PGP	529,816	887,116	357,300	67%	
Pacheco PP - Power	930,038	968,452	38,414	4%	
<b><u>San Luis Canal - Fresno</u></b>					
City of Coalinga	106,868	81,248	(25,620)	-24%	
Westlands WD Relifts	28,016	18,733	(9,283)	-33%	
<b><u>San Luis Canal - Tracy</u></b>					
San Luis WD	56,160	31,571	(24,589)	-44%	
<b><u>Toyon Pipeline</u></b>					
City of Shasta Lake	54,341	18,472	(35,869)	-66%	
<b><u>Tehama-Colusa Canal</u></b>					
Colusa County WD	1,598	1,451	(147)	-9%	
Kanawha WD Canalside Relift	23	12	(11)	-48%	
<b><u>Direct Pumping</u></b>	<b>2,855,136</b>	<b>3,274,133</b>	<b>418,997</b>	<b>15%</b>	The Estimated KWH Per Acre-Foot to move water into San Luis Reservoir using Gianelli PGP was higher in 2018 than 2017 which was a significant factor resulting in higher energy cost for San Felipe Unit Contractors in 2018.

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<b><u>Water Marketing</u></b>					
Suisun Marsh Protection	94,802	98,582	3,780	4%	
Contract Administration	1,152,079	1,065,843	(86,236)	-7%	
Water & Power Systems Control	431,697	497,272	65,575	15%	
Other Expense	409,472	403,312	(6,160)	-2%	
Hazardous Material Management	29,121	29,121	-	0%	
Water Wheeling	114,345	124,820	10,475	9%	
General Expense	128,717	149,248	20,531	16%	
Cost Allocation Study Cost	225,000	225,000	-	0%	
Non-Recurring Water Marketing		183,465	183,465	100%	Delta Water Quality Monitoring Stations-Replace Staten Island and San Andreas Water Quality Monitoring Stations
Non-permanent Contractor Revenue	(323,601)	(343,145)	(19,544)	6%	
<b>Total Water Marketing</b>	<b>2,261,632</b>	<b>2,433,518</b>	<b>171,886</b>	<b>8%</b>	Overall increase is below materiality of 10%. No further action is required.
<b><u>Extraordinary O&amp;M</u></b>					
Storage	2,136,706	706,689	(1,430,017)	-67%	Although the budget for 2017 and 2018 to replace/refurbish 8 butterfly valves at Gianelli Pump Generating Plant was the same (\$5,000,000), the allocation to M&I changed from 35% to 11.3%.
Conveyance pumping			-		
Direct pumping			-		
<b>Total XO&amp;M</b>	<b>2,136,706</b>	<b>706,689</b>	<b>(1,430,017)</b>	<b>-67%</b>	
<b>Total Reimbursable cost for Water Rates</b>	<b>11,453,621</b>	<b>10,833,872</b>	<b>(619,749)</b>	<b>-5%</b>	

Source: Schedule A-9 of the 2017 and 2018 M&I Water Ratebooks.