

M&I 2019 Sch A-9 F.Z21.xlsm
11/09/2018

CENTRAL VALLEY PROJECT
SCHEDULE OF ESTIMATED M&I OPERATION & MAINTENANCE COSTS
BY FACILITY AND/OR COMPONENT
2019 M&I WATER RATES

A	B	C	D
Facility/Contractor Ref	Estimated O&M & Corps Expense	Estimated Project Use Energy Cost <A-11>	Total Estimated Costs (B+C)
Storage			
American River	\$ 16,807	\$ -	\$ 16,807
Black Butte Reservoir	\$ 20,790	\$ -	\$ 20,790
Clair A. Hill Whiskeytown Dam	\$ 22,568	\$ -	\$ 22,568
Clear Creek Tunnel	\$ 4,725	\$ -	\$ 4,725
Columbia-Mowry System	\$ 47,790	\$ 2,971	\$ 50,761
Coleman National Fish Hatchery	\$ 428,204	\$ -	\$ 428,204
Delta Cross Channel	\$ 32,076	\$ -	\$ 32,076
Folsom D&R	\$ 145,901	\$ -	\$ 145,901
Folsom Pipeline	\$ -	\$ -	\$ -
Folsom PP	\$ 44,879	\$ 45,368	\$ 90,247
Friant D&R	\$ 184,770	\$ 16,160	\$ 200,930
Gianelli, WR PGP	2/ \$ -	\$ 980,594	\$ 980,594
Regeneration Credit	2/ \$ -	\$ (660,179)	\$ (660,179)
New Melones D&R	\$ -	\$ -	\$ -
Nimbus D&R	\$ 21,155	\$ -	\$ 21,155
San Joaquin River	\$ 8,113	\$ -	\$ 8,113
Sacramento River	\$ 4,362	\$ -	\$ 4,362
Security Costs	\$ 642,737	\$ -	\$ 642,737
San Luis Unit - Other Routine O&M Costs - Joint.	\$ 2,309,866	\$ -	\$ 2,309,866
Shasta Dam and Reservoir	\$ 312,966	\$ 69,965	\$ 382,931
Spring Creek Tunnel	\$ 15	\$ -	\$ 15
Trinity Dam and Clair Engle Lake	\$ 64,858	\$ -	\$ 64,858
Water Forum - American River Division	\$ 3,576	\$ -	\$ 3,576
Total Storage including PUE Offset	2/ 3/ \$ 4,316,158	\$ 454,880	\$ 4,771,038
Storage PUE Credit	3/ \$ -	\$ (454,880)	\$ (454,880)

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Facility/Contractor	Estimated O&M & Corps Expense	Estimated Project Use Energy Cost <A-11>	Total Estimated Costs (B+C)
Ref			
Conveyance			
DMC Regulatory Actions	\$ 5,808	\$ -	\$ 5,808
Hydrologic Operating Modeling - Delta Division	\$ -	\$ -	\$ -
Friant-Kern Canal	\$ 634	\$ -	\$ 634
Little Panoche Detention Dam	\$ 394	\$ -	\$ 394
Los Banos Creek Detention Dam - Maint. Joint	\$ -	\$ -	\$ -
Red Bluff Diversion Dam	\$ 4,240	\$ -	\$ 4,240
Tehama-Colusa Canal	\$ 555	\$ -	\$ 555
San Luis Canal - Federal Only	\$ 709	\$ -	\$ 709
Folsom-South Canal (Water Ratesetting)	\$ 65,600	\$ -	\$ 65,600
Total Conveyance	\$ 77,940	\$ -	\$ 77,940
Less Direct Billed	\$ (12,340)	\$ -	\$ (12,340)
Net Conveyance	\$ 65,600	\$ -	\$ 65,600
Conveyance Pumping			
Dos Amigos Pumping Plant	\$ -	\$ 117,882	\$ 117,882
O'Neill Pump Gen Plant - Federal	\$ -	\$ 348,003	\$ 348,003
Jones Pumping Plant	\$ -	\$ 2,350,547	\$ 2,350,547
Jones Switchyard	\$ -	\$ -	\$ -
Total Conv. Pumping (Direct Billed)	\$ -	\$ 2,816,432	\$ 2,816,432
Less Direct Billed	\$ -	\$ (2,816,432)	\$ (2,816,432)
Net Conveyance Pumping	\$ -	\$ -	\$ -
Direct Pumping			
Colusa County WD	\$ -	\$ 1,842	\$ 1,842
Contra Costa PP (Contra Costa WD)	\$ -	\$ 682,024	\$ 682,024
Kanawha WD	\$ -	\$ 20	\$ 20
Pleasant Valley PP (City of Coalinga)	\$ -	\$ 123,264	\$ 123,264
San Benito County WD			
Gianelli, WR PGP	1/ \$ -	\$ 40,492	\$ 40,492
Pacheco PP	1/ \$ -	\$ 38,183	\$ 38,183
San Luis WD Relifts	\$ -	\$ 40,341	\$ 40,341
Santa Clara Valley WD			
Coyote PP	1/ \$ -	\$ 229,356	\$ 229,356
Gianelli, WR PGP	1/ \$ -	\$ 662,591	\$ 662,591
Pacheco PP	1/ \$ -	\$ 624,801	\$ 624,801
Shasta PP (City of Shasta Lake)	\$ 125,000	\$ 729	\$ 125,729
State-Delta PP (Cross Valley Canal)	\$ -	\$ 199	\$ 199
Westlands WD Relifts	\$ -	\$ 31,121	\$ 31,121
Wintu PP (Bella Vista WD)	\$ -	\$ 62,402	\$ 62,402

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Facility/Contractor Ref	Estimated O&M & Corps Expense	Estimated Project Use Energy Cost <A-11>	Total Estimated Costs (B+C)
Dos Amigos PP (Cross Valley Canal)	\$ -	\$ 3,036	\$ 3,036
Total Direct Pumping	\$ 125,000	\$ 2,540,400	\$ 2,665,400
Direct Pumping to WAPA (Specific Users)	\$ -	\$ (2,350,770)	\$ (2,350,770)
Direct Pumping Credit/to WAPA	3/ \$ -	\$ (189,630)	\$ (189,630)
Direct Pumping in Ratesetting	\$ 125,000	\$ -	\$ 125,000
Sub Total	\$ 4,506,758	\$ -	\$ 4,506,758
<u>Non-Recurring O&M</u>			
<u>Storage</u>			
Gianelli Pump/Gen Plant - San Felipe Unit	\$ 141,511	\$ -	\$ 141,511
Gianelli Pump/Gen Plant - All Other Contractors	\$ 425,489	\$ -	\$ 425,489
Nimbus Dam - San Felipe Unit	\$ 3,616	\$ -	\$ 3,616
Nimbus Dam - All Other Contractors	\$ 10,874	\$ -	\$ 10,874
Shasta Dam - San Felipe Unit	\$ 22,784	\$ -	\$ 22,784
Shasta Dam - All Other Contractors	\$ 68,506	\$ -	\$ 68,506
Folsom Dam - San Felipe Unit	\$ 29,750	\$ -	\$ 29,750
Folsom Dam - All Other Contractors	\$ 89,450	\$ -	\$ 89,450
CN Fish Hatchery - San Felipe Unit	\$ 933	\$ -	\$ 933
CN Fish Hatchery - All Other Contractors	\$ 2,807	\$ -	\$ 2,807
Total Non-Recurring O&M Storage	\$ 795,720	\$ -	\$ 795,720
<u>Water Marketing Expense</u>			
Suisun Marsh Protection	\$ 98,582	\$ -	\$ 98,582
Water Contract Administration	\$ 1,344,235	\$ -	\$ 1,344,235
Water & Power Systems Control	\$ 540,931	\$ -	\$ 540,931
Other Expenses	\$ 425,118	\$ -	\$ 425,118
Hazardous Materials Management Program	\$ 29,120	\$ -	\$ 29,120
General Expense	\$ 132,054	\$ -	\$ 132,054
Cost Allocation Study Cost	\$ 225,000	\$ -	\$ 225,000
Water Wheeling	\$ 114,345	\$ -	\$ 114,345
Non-Permanent Contractor Revenue	\$ (289,691)	\$ -	\$ (289,691)
Total Water Marketing	\$ 2,619,694	\$ -	\$ 2,619,694
 Grand Total	 \$ 7,922,172	 \$ -	 \$ 7,922,172

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Footnotes:

1/ Suballocation of San Felipe Unit Direct Pumping Costs:

	Projected FY 2019 Deliveries <Sch A-12>	Ratios	Direct Pumping Allocation (Sch A-11)			
			William R. Gianelli Pump-Generator Plant PUE	Pacheco PP	Coyote PP	Grand Total
San Benito County WD	5,128	0.057592	\$ 40,492	\$ 38,183		\$ 78,675
Santa Clara Valley WD	83,917	0.942408	\$ 662,591	\$ 624,801	\$ 229,356	\$ 1,516,748
	89,045	1.000000	\$ 703,083	\$ 662,984	\$ 229,356	\$ 1,595,423
Total San Felipe	89,045	0.249578				
All Other Contractors	267,738	0.750422				
Total Storage	356,783	1.000000				

2/ Storage Costs are broken down between San Felipe Unit Contractors and all others as follows:

	San Felipe Unit Storage	All Other Contractors Storage	Total
Projected 2019 Storage Deliveries	89,045	267,738	356,783
Ratios	0.249578	0.750422	1.000000
Allocated Gianelli, WR Pump Generator Costs			
Project Use Costs	*	\$ 980,594	\$ 980,594
Regeneration Credit	\$ -	\$ (660,179)	\$ (660,179)
Allocated Storage O&M Costs	\$ 1,110,777	\$ 3,339,845	\$ 4,450,622
Allocated Storage O&M Costs - Non-Recurring O&M	\$ 198,595	\$ 597,125	\$ 795,720
Total	\$ 1,309,372	\$ 4,257,386	\$ 5,566,758
Cost per Acre-foot (to Schedule A-8)	\$14.70	\$15.90	

*San Felipe Unit contractors' share of the William R. Gianelli PG PUE has been included in the direct pumping section(see Schedule A-11, page 2)

3/ Project Use Energy payment is being remitted to Western Area Power Authority for storage and direct pumping based on the deliveries of a select few contractors. The rates for the select few contractors are reduced as a credit in the O&M rates. All contractors will ultimately pay for the storage and direct pumping service but as an offset to the amount paid by the select few. Refer to schedule A-11 for calculation details.