

IRR 2020 Sch A-9 F.Z22.XLSM
09/24/2019

CENTRAL VALLEY PROJECT
SCHEDULE OF IRRIGATION ESTIMATED OPERATION & MAINTENANCE COSTS
BY FACILITY AND/OR COMPONENT
2020 IRRIGATION 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	\$ 123,122	\$ -	\$ 123,122
Black Butte Reservoir	\$ 854,604	\$ -	\$ 854,604
Buchanan Reservoir	\$ 659,678	\$ -	\$ 659,678
Clair A. Hill Whiskeytown Dam	\$ 165,292	\$ -	\$ 165,292
Clear Creek Tunnel	\$ 34,599	\$ -	\$ 34,599
Columbia-Mowry System	\$ 229,037	\$ 18,947	\$ 247,984
Coleman National Fish Hatchery	\$ 2,535,689	\$ -	\$ 2,535,689
Delta Cross Channel	\$ 106,934	\$ -	\$ 106,934
Folsom D & R	\$ 1,243,436	\$ -	\$ 1,243,436
Folsom Pumping Plant	\$ 328,759	\$ -	\$ 328,759
Friant D & R	\$ 1,398,082	\$ -	\$ 1,398,082
Gianelli, WR Pump Generator Plant	\$ -	\$ 2,570,232	\$ 2,570,232
Less: WRGPGP Dir Pump	\$ -	\$ -	\$ -
Regeneration Credit	\$ -	\$ (2,359,375)	\$ (2,359,375)
Hidden Reservoir	\$ 352,805	\$ -	\$ 352,805
New Melones D&R	\$ 54,428	\$ -	\$ 54,428
New Melones Long Term Operating Plan	\$ 120,719	\$ -	\$ 120,719
Nimbus D&R	\$ 96,686	\$ -	\$ 96,686
Sacramento River	\$ 302,217	\$ -	\$ 302,217
San Joaquin River	\$ 59,461	\$ -	\$ 59,461
San Luis Unit - Other Routine O&M Costs - Joint	\$ 2,523,092	\$ -	\$ 2,523,092
Security Costs	\$ 4,202,455	\$ -	\$ 4,202,455
Shasta D&R	\$ 1,507,302	\$ 225,320	\$ 1,732,623
Spring Creek Tunnel	\$ 126	\$ -	\$ 126
Trinity D&R & Clair Eagle Lake	\$ 95,840	\$ -	\$ 95,840
Water Forum - American River Division	\$ 26,196	\$ -	\$ 26,196
Total Storage including PUE Offset	\$ 17,020,560	\$ 455,124	\$ 17,475,684
Storage PUE Credit	\$ -	\$ (455,124)	\$ (455,124)
Conveyance			
DMC Regulatory Actions	\$ 52,876	\$ -	\$ 52,876
DMC Subsidence Study	\$ -	\$ -	\$ -

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Facility/Contractor	Estimated O&M & Corps Expense	Estimated Project Use Energy Cost < A-11 >	Total Estimated Costs (B+C)
Ref			
Friant-Kern Canal	\$ 8,360	\$ -	\$ 8,360
Little Panoche Detention Dam	\$ 5,772	\$ -	\$ 5,772
Los Banos Creek Detention Dam - O&M Joint	\$ 236	\$ -	\$ 236
Madera Canal	\$ 2,000	\$ -	\$ 2,000
South Delta Hydrodynamics Fish Inv.	\$ -	\$ -	\$ -
San Luis Canal	\$ -	\$ -	\$ -
Water Wheeling Cost -Unfunded	\$ -	\$ -	\$ -
Tehama-Colusa Canal	\$ 38,450	\$ -	\$ 38,450
San Luis Canal - Federal Only	\$ -	\$ -	\$ -
Drainage Projects	\$ 1,861,000	\$ -	\$ 1,861,000
Total Conveyance	\$ 1,968,694	\$ -	\$ 1,968,694
Less: Direct Billed	\$ (1,968,694)	\$ -	\$ (1,968,694)
Net Conveyance	\$ -	\$ -	\$ -
<u>Conveyance Pumping</u>			
Corning Pumping Plant	\$ -	\$ 220,254	\$ 220,254
Dos Amigos Pumping Plant	\$ -	\$ 4,639,164	\$ 4,639,164
O'Neill Pump Gen Plant - Federal	\$ -	\$ 1,829,668	\$ 1,829,668
Jones Pumping Plant	\$ -	\$ 17,366,531	\$ 17,366,531
Total Conveyance Pumping	\$ -	\$ 24,055,616	\$ 24,055,616
Less: Direct Billed	\$ -	\$ (24,055,616)	\$ (24,055,616)
Net Conveyance Pumping	\$ -	\$ -	\$ -
<u>Direct Pumping</u>			
Colusa County WD	\$ -	\$ 436,884	\$ 436,884
Corning WD	\$ -	\$ 68,417	\$ 68,417
Cross Valley Canal Contractors (Dos Amigos & Banks)	\$ -	\$ 622,470	\$ 622,470
Dunnigan WD	\$ -	\$ 7,033	\$ 7,033
Kanawha WD	\$ -	\$ 51,042	\$ 51,042
Orland-Artois WD	\$ -	\$ 105,709	\$ 105,709
Panoche WD	\$ -	\$ 181	\$ 181
Proberta WD	\$ -	\$ 1,923	\$ 1,923
San Benito County WD			
Gianelli, WR Pump Generator	1/ \$ -	\$ 102,248	\$ 102,248
Pacheco PP	1/ \$ -	\$ 99,547	\$ 99,547
Glenn Valley WD	\$ -	\$ -	\$ -
Santa Clara Valley WD			
Coyote PP	1/ \$ -	\$ 31,456	\$ 31,456
Gianelli, WR Pump Generator	1/ \$ -	\$ 99,724	\$ 99,724
Pacheco PP	1/ \$ -	\$ 97,089	\$ 97,089

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Facility/Contractor	Estimated O&M & Corps Expense	Estimated Project Use Energy Cost < A-11 >	Total Estimated Costs (B+C)
Ref			
San Luis WD	\$ -	\$ 726,098	\$ 726,098
Westlands WD:			
Pleasant Valley PP	\$ -	\$ 700,834	\$ 700,834
Pleasant Valley Relifts	\$ -	\$ 91,499	\$ 91,499
Westlands WD Relifts	\$ -	\$ 3,845,979	\$ 3,845,979
Westside WD	\$ -	\$ 43,076	\$ 43,076
Wintu PP (Bella Vista WD)	\$ -	\$ 85,185	\$ 85,185
Total Direct Pumping	\$ -	\$ 7,216,393	\$ 7,216,393
Direct Pumping to WAPA (Specific Users)	\$ -	\$ (6,388,108)	\$ (6,388,108)
Direct Pumping Credit/to WAPA	\$ -	\$ (828,284)	\$ (828,284)
Direct Pumping in Ratesetting	\$ -	\$ (0)	\$ (0)
Sub-total	\$ 17,020,560	\$ -	\$ 17,020,560
Non-Recurring O&M			
Storage			
Gianelli Pump/Gen Plant - San Felipe Unit	\$ 70,331	\$ -	\$ 70,331
Gianelli Pump/Gen Plant - All Other Contractors	\$ 4,045,819	\$ -	\$ 4,045,819
Nimbus Dam - San Felipe Unit	\$ 235	\$ -	\$ 235
Nimbus Dam - All Other Contractors	\$ 13,491	\$ -	\$ 13,491
Shasta Dam - San Felipe Unit	\$ 10,494	\$ -	\$ 10,494
Shasta Dam - All Other Contractors	\$ 603,644	\$ -	\$ 603,644
Folsom Dam - San Felipe Unit	\$ 12,682	\$ -	\$ 12,682
Folsom Dam - All Other Contractors	\$ 729,538	\$ -	\$ 729,538
Friant Dam - San Felipe Unit	\$ 3,113	\$ -	\$ 3,113
Friant Dam - All Other Contractors	\$ 179,080	\$ -	\$ 179,080
San Luis Dam - San Felipe Unit	\$ 25,460	\$ -	\$ 25,460
San Luis Dam - All Other Contractors	\$ 1,464,586	\$ -	\$ 1,464,586
Delta Cross Channel - San Felipe Unit	\$ 21,764	\$ -	\$ 21,764
Delta Cross Channel - All Other Contractors	\$ 1,251,969	\$ -	\$ 1,251,969
Total Non-Recurring Storage	\$ 8,432,204	\$ -	\$ 8,432,204
Water Marketing Expense			
Suisun Marsh Protection	\$ 588,104	\$ -	\$ 588,104
Contract Administration	\$ 6,266,236	\$ -	\$ 6,266,236
Water & Power Systems Control	\$ 5,966,504	\$ -	\$ 5,966,504
Other Expenses	\$ 2,785,864	\$ -	\$ 2,785,864
Hazardous Material Management Program	\$ 363,964	\$ -	\$ 363,964
General Expense	\$ 358,204	\$ -	\$ 358,204
Cost Allocation Study cost	\$ 412,850	\$ -	\$ 412,850
Water Wheeling Cost	\$ 1,560,101	\$ -	\$ 1,560,101
Non-Recurring Water Marketing - SCCAO Tracy	\$ -	\$ -	\$ -
Less: Non-Permanent Contractor Revenue	\$ (1,000,000)	\$ -	\$ (1,000,000)
Total Water Marketing	\$ 17,301,827	\$ -	\$ 17,301,827
Grand Total	\$ 42,754,591	\$ -	\$ 42,754,591

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Footnotes:

1/ Suballocation of San Felipe Unit Direct Pumping Costs:

Contractor	2020 Projected 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	12,443	0.50625	\$ 102,248	\$ 99,547	\$ -	\$ 201,795
Santa Clara Valley WD	12,135	0.49375	\$ 99,724	\$ 97,089	\$ 31,456	\$ 228,269
Total San Felipe	24,578	1.00000	\$ 201,972	\$ 196,636	\$ 31,456	\$ 430,064
Total San Felipe	24,578	0.01709				
All Other Contractors	1,413,838	0.98291				
Total Storage Del.	1,438,416	1.00000				

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 2020 Storage Deliveries	24,578	1,413,838	1,438,416
Ratios	0.01709	0.98291	1.00000
Allocated William R. Gianelli PG Costs:			
Project Use Energy Costs	*	\$ 2,570,232	\$ 2,570,232
Regeneration Credit	\$ -	\$ (2,359,375)	\$ (2,359,375)
Allocated Storage O&M Costs	\$ 295,056	\$ 16,969,772	\$ 17,264,828
Allocated Non-Recurring O&M Storage Costs	\$ 144,092	\$ 8,288,112	\$ 8,432,204
Total	\$ 439,148	\$ 25,468,740	\$ 25,907,888
Cost per Acre-foot	\$ 17.87	\$ 18.01	

* San Felipe Unit contractors' share of the William R. Gianelli PG PUE has been included in the direct pumping section (See Schedule 11, page 4)

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.