

IRR 2017 Sch A-9 F.Z19.XLSM
04/26/2017

CENTRAL VALLEY PROJECT
SCHEDULE OF IRRIGATION ESTIMATED OPERATION & MAINTENANCE COSTS
BY FACILITY AND/OR COMPONENT
2017 IRRIGATION WATER RATES

A		B	C	D
Facility/Contractor		Estimated O&M & Corps Expense	Estimated Project Use Energy Cost	Total Estimated Costs
Ref			< A-11>	(B+C)
Storage				
		\$	\$	\$
		623,178	-	623,178
		\$	\$	\$
		571,217	-	571,217
		\$	\$	\$
		257,240	-	257,240
		\$	\$	\$
		148,990	19,516	168,506
		\$	\$	\$
		3,082,158	-	3,082,158
		\$	\$	\$
		77,665	-	77,665
		\$	\$	\$
		1,316,238	-	1,316,238
		\$	\$	\$
		426,758	-	426,758
		\$	\$	\$
		1,350,631	-	1,350,631
		\$	\$	\$
		-	3,818,520	3,818,520
		\$	\$	\$
		-	-	-
		\$	\$	\$
		-	(3,429,473)	(3,429,473)
		\$	\$	\$
		221,946	-	221,946
		\$	\$	\$
		-	-	-
		\$	\$	\$
		69,082	-	69,082
		\$	\$	\$
		91,412	-	91,412
		\$	\$	\$
		172,403	-	172,403
		\$	\$	\$
		512,218	-	512,218
		\$	\$	\$
		107,571	-	107,571
		\$	\$	\$
		3,664,858	-	3,664,858
		\$	\$	\$
		3,601,143	-	3,601,143
		\$	\$	\$
		1,362,171	213,995	1,576,166
		\$	\$	\$
		96,309	-	96,309
		\$	\$	\$
		146,494	-	146,494
		\$	\$	\$
		17,899,681	622,557	18,522,239
		\$	\$	\$
		-	(622,557)	(622,557)
Conveyance				
		\$	\$	\$
		77,343	-	77,343
		\$	\$	\$
		17,069	-	17,069
		\$	\$	\$
		5,000	-	5,000

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Facility/Contractor		Estimated O&M & Corps Expense	Estimated Project Use Energy Cost	Total Estimated Costs
Ref			< A-11>	(B+C)
	Friant-Kern Canal	\$ 37,284	\$ -	\$ 37,284
	Los Banos Creek Detention Dam - Maint. Joint	\$ 5,927	\$ -	\$ 5,927
	Madera Canal	\$ 13,000	\$ -	\$ 13,000
	South Delta Hydrodynamics Fish Inv.	\$ -	\$ -	\$ -
	San Luis Canal	\$ -	\$ -	\$ -
	Water Wheeling Cost -Unfunded	\$ -	\$ -	\$ -
	Tehama-Colusa Canal	\$ 80,239	\$ -	\$ 80,239
	San Luis Canal - Federal Only	\$ 27,258	\$ -	\$ 27,258
	Drainage Projects	\$ 1,767,000	\$ -	\$ 1,767,000
	Total Conveyance	\$ 2,030,120	\$ -	\$ 2,030,120
	Less: Direct Billed	\$ (2,030,120)	\$ -	\$ (2,030,120)
	Net Conveyance	\$ -	\$ -	\$ -
<u>Conveyance Pumping</u>				
	Corning Pumping Plant	\$ -	\$ 247,030	\$ 247,030
	Dos Amigos Pumping Plant	\$ -	\$ 3,006,004	\$ 3,006,004
	O'Neill Pump Gen Plant - Federal	\$ -	\$ 1,430,829	\$ 1,430,829
	Jones Pumping Plant	\$ -	\$ 12,866,179	\$ 12,866,179
	Total Conveyance Pumping	\$ -	\$ 17,550,043	\$ 17,550,043
	Less: Direct Billed	\$ -	\$ (17,550,043)	\$ (17,550,043)
	Net Conveyance Pumping	\$ -	\$ -	\$ -
<u>Direct Pumping</u>				
	Colusa County WD	\$ -	\$ 372,241	\$ 372,241
	Corning WD	\$ -	\$ 63,793	\$ 63,793
	Cross Valley Canal Contractors (Dos Amigos & Banks)	\$ -	\$ 300,881	\$ 300,881
	Dunnigan WD	\$ -	\$ 5,043	\$ 5,043
	Kanawha WD	\$ -	\$ 74,298	\$ 74,298
	Orland-Artois WD	\$ -	\$ 73,541	\$ 73,541
	Panoche WD	\$ -	\$ 1,631	\$ 1,631
	Proberta WD	\$ -	\$ 2,991	\$ 2,991
	San Benito County WD			
	Gianelli, WR Pump Generator 1/	\$ -	\$ 61,685	\$ 61,685
	Pacheco PP 1/	\$ -	\$ 108,281	\$ 108,281
	Glenn Valley WD	\$ -	\$ -	\$ -
	Santa Clara Valley WD			
	Coyote PP 1/	\$ -	\$ 26,978	\$ 26,978
	Gianelli, WR Pump Generator 1/	\$ -	\$ 68,142	\$ 68,142
	Pacheco PP 1/	\$ -	\$ 119,617	\$ 119,617

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Facility/Contractor		Estimated O&M & Corps Expense	Estimated Project Use Energy Cost	Total Estimated Costs
Ref			< A-11>	(B+C)
	San Luis WD	\$ -	\$ 830,687	\$ 830,687
	Westlands WD:			
	Pleasant Valley PP	\$ -	\$ 574,402	\$ 574,402
	Pleasant Valley Relifts	\$ -	\$ 81,345	\$ 81,345
	Westlands WD Relifts	\$ -	\$ 3,217,215	\$ 3,217,215
	Westside WD	\$ -	\$ 31,674	\$ 31,674
	Wintu PP (Bella Vista WD)	\$ -	\$ 78,788	\$ 78,788
	Total Direct Pumping	\$ -	\$ 6,093,233	\$ 6,093,233
	Direct Pumping to WAPA (Specific Users)	\$ -	\$ (5,608,433)	\$ (5,608,433)
4/	Direct Pumping Credit/to WAPA	\$ -	\$ (484,800)	\$ (484,800)
	Direct Pumping in Ratesetting	\$ -	\$ -	\$ -
	Sub-total	\$ 17,899,681	\$ -	\$ 17,899,681
	Non-Recurring O&M			
	Storage			
	Gianelli Pump/Gen Plant - San Felipe Unit	\$ 43,068	\$ -	\$ 43,068
	Gianelli Pump/Gen Plant - All Other Contractors	\$ 3,091,432	\$ -	\$ 3,091,432
	Nimbus Dam	\$ 395,980	\$ -	\$ 395,980
	Whiskeytown Dam	\$ 33,295	\$ -	\$ 33,295
	Coleman National Fish Hatchery	\$ 550,500	\$ -	\$ 550,500
	Delta Cross Channel	\$ 1,347,250	\$ -	\$ 1,347,250
	Trinity Dam	\$ 55,350	\$ -	\$ 55,350
	Total Non-Recurring Storage	\$ 5,516,875	\$ -	\$ 5,516,875
	Water Marketing Expense			
	Suisun Marsh Protection	\$ 565,554	\$ -	\$ 565,554
	Contract Administration	\$ 6,502,921	\$ -	\$ 6,502,921
	Water & Power Systems Control	\$ 5,398,679	\$ -	\$ 5,398,679
	Other Expenses	\$ 3,462,679	\$ -	\$ 3,462,679
	Hazardous Material Management Program	\$ 361,677	\$ -	\$ 361,677
	General Expense	\$ 1,598,668	\$ -	\$ 1,598,668
3/	Cost Allocation Study cost	\$ 775,000	\$ -	\$ 775,000
	Water Wheeling Cost	\$ 1,420,171	\$ -	\$ 1,420,171
	Less: Non-Permanent Contractor Revenue	\$ (55)	\$ -	\$ (55)
	Total Water Marketing	\$ 20,085,294	\$ -	\$ 20,085,294
	Grand Total	\$ 43,501,850	\$ -	\$ 43,501,850

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Footnotes:

1/ Suballocation of San Felipe Unit Direct Pumping Costs:

Contractor	2017 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	7,748	0.47513	\$ 61,685	\$ 108,281	\$ -	\$ 169,966
Santa Clara Valley WD	8,559	0.52487	\$ 68,142	\$ 119,617	\$ 26,978	\$ 214,737
Total San Felipe	16,307	1.00000	\$ 129,827	\$ 227,899	\$ 26,978	\$ 384,704
Total San Felipe	16,307	0.01374				
All Other Contractors	1,170,828	0.98626				
Total Storage Del.	1,187,135	1.00000				

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

	San Felipe Unit	All Other Contractors	Total
Projected 2017 Storage Deliveries	16,307	1,170,828	1,187,135
Ratios	0.01374	0.98626	1.00000
Allocated William R. Gianelli PG Costs:			
Project Use Energy Costs	*	\$ 3,818,520	\$ 3,818,520
Regeneration Credit	\$ -	\$ (3,429,473)	\$ (3,429,473)
Allocated Storage O&M Costs	\$ 249,150	\$ 17,884,043	\$ 18,133,193
Allocated Non-Recurring O&M Storage Costs	\$ 43,068	\$ 5,473,807	\$ 5,516,875
Total	\$ 292,218	\$ 23,746,896	\$ 24,039,114
Cost per Acre-foot	\$ 17.92	\$ 20.28	
Schedule A-12 Revised Storage Deliveries	29,808	1,843,590	1,873,398
Cost per Acre-foot	\$ 9.80	\$ 12.88	

* 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/ General & Administrative (G&A) expenses have been incorporated into Water Marketing costs. Reimbursable costs for Irrigation and M&I are based on 18.5 percent of the total G&A costs included on Table 6.

Irrigation's share is based on the ratio of 2017 projected deliveries for Irrigation to the total Irrigation & M&I deliveries.

4/ 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.