

IRR 2014 Sch A-9 F.Z16.XLSM
12/19/2013

**CENTRAL VALLEY PROJECT
SCHEDULE OF IRRIGATION ESTIMATED OPERATION & MAINTENANCE COSTS
BY FACILITY AND/OR COMPONENT
2014 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)
<u>Storage</u>				
		\$	\$	\$
Black Butte Reservoir		828,690	-	828,690
Buchanan Reservoir		590,064	-	590,064
Clair A. Hill Whiskeytown Dam		247,861	-	247,861
Columbia-Mowry System		152,186	10,927	163,113
Coleman National Fish Hatchery		3,015,401	-	3,015,401
Delta Cross Channel		686,456	-	686,456
Folsom D & R		447,534	-	447,534
Folsom Pumping Plant		411,580	-	411,580
Friant D & R		1,389,656	-	1,389,656
Gianelli, WR Pump Generator Plant		-	2,939,402	2,939,402
Less: WRGPGP Dir Pump		-		-
Regeneration Credit		-	(2,331,465)	(2,331,465)
Hidden Reservoir		264,720	-	264,720
New Melones D&R		885,704	1,387	887,091
New Melones Long Term Operating Plan		90,363	-	90,363
Nimbus D&R		1,010,810	-	1,010,810
Sacramento River		622,652	-	622,652
San Joaquin River		118,450	-	118,450
San Luis Unit - Other Routine O&M Costs - Joint		4,217,001	-	4,217,001
Security Costs		3,188,905	-	3,188,905
Shasta D&R		1,301,059	107,693	1,408,752
Trinity D&R & Clair Eagle Lake		92,628	-	92,628
Total Storage	2/	\$ 19,561,720	\$ 727,945	\$ 20,289,665
<u>Conveyance</u>				
ADA Guidelines		\$ -	\$ -	\$ -
Delta-Mendota Canal		\$ 28,375	\$ -	\$ 28,375
Delta Barriers - Unfunded	4/	\$ 2,773,545	\$ -	\$ 2,773,545
DMC Recirculation Study		\$ -	\$ -	\$ -
Emergency Management (Delta Div)		\$ -	\$ -	\$ -
Friant-Kern Canal		\$ 32,469	\$ -	\$ 32,469
Red Bluff Diversion Dam		\$ 36,657	\$ -	\$ 36,657
South Delta Hydrodynamics Fish Inv.		\$ -	\$ -	\$ -

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	San Luis Canal	\$ 11,711	\$ -	\$ 11,711
	Water Wheeling Cost -Unfunded	4/ \$ 1,386,772		\$ 1,386,772
	Tehama-Colusa Canal	\$ 83,982	\$ -	\$ 83,982
	Tehama-Colusa Canal Fish Facilities	\$ 6,574	\$ -	\$ 6,574
	Total Conveyance	\$ 4,360,085	\$ -	\$ 4,360,085
	Less: Direct Billed	\$ (199,768)	\$ -	\$ (199,768)
	Net Conveyance	\$ 4,160,317	\$ -	\$ 4,160,317
<u>Conveyance Pumping</u>				
	Corning Pumping Plant	\$ -	\$ 181,261	\$ 181,261
	Dos Amigos Pumping Plant	\$ -	\$ 2,593,867	\$ 2,593,867
	O'Neill Pump Gen Plant - Federal	\$ -	\$ 1,271,274	\$ 1,271,274
	Jones Pumping Plant	\$ 760,299	\$ 10,043,593	\$ 10,803,892
	Jones Switchyard	\$ -	\$ -	\$ -
	Total Conveyance Pumping	\$ 760,299	\$ 14,089,996	\$ 14,850,295
	Less: Direct Billed	\$ (760,299)	\$ (14,089,996)	\$ (14,850,295)
	Net Conveyance Pumping	\$ -	\$ -	\$ -
<u>Direct Pumping</u>				
	Colusa County WD	\$ -	\$ 230,675	\$ 230,675
	Corning WD	\$ -	\$ 49,971	\$ 49,971
	Cross Valley Canal Contractors (Dos Amigos & Banks)	\$ -	\$ 193,003	\$ 193,003
	Dunnigan WD	\$ -	\$ 3,626	\$ 3,626
	Kanawha WD	\$ -	\$ 35,619	\$ 35,619
	Orland-Artois WD	\$ -	\$ 47,137	\$ 47,137
	Panoche WD	\$ -	\$ 754	\$ 754
	Proberta WD	\$ -	\$ 3,112	\$ 3,112
	San Benito County WD			
	Gianelli, WR Pump Generator	1/ \$ -	\$ 96,346	\$ 96,346
	Pacheco PP	1/ \$ -	\$ 64,564	\$ 64,564
	Glenn Valley WD	\$ -	\$ -	\$ -

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Facility/Contractor		Estimated O&M & Corps Expense		Estimated Project Use Energy Cost		Total Estimated Costs	
Ref				< A-11>		(B+C)	
Santa Clara Valley WD							
Coyote PP	1/	\$	-	\$	17,039	\$	17,039
Gianelli, WR Pump Generator	1/	\$	-	\$	93,494	\$	93,494
Pacheco PP	1/	\$	-	\$	62,653	\$	62,653
San Luis WD		\$	-	\$	441,193	\$	441,193
Westlands WD:							
Pleasant Valley PP		\$	-	\$	432,195	\$	432,195
Pleasant Valley Relifts		\$	-	\$	46,990	\$	46,990
Westlands WD Relifts		\$	-	\$	2,230,776	\$	2,230,776
Westside WD		\$	-	\$	13,327	\$	13,327
Wintu PP (Bella Vista WD)		\$	-	\$	58,946	\$	58,946
Total Direct Pumping		\$	-	\$	4,121,420	\$	4,121,420
<u>San Luis Drain & Kesterson Reservoir</u>							
Kesterson reservoir		\$	175,000	\$	-	\$	175,000
Total San Luis Drain & Kesterson Reservoir		\$	175,000	\$	-	\$	175,000
Sub-total		\$	23,897,037	\$	4,849,364	\$	28,746,401
<u>Extraordinary O&M</u>							
<u>Storage</u>							
Folsom Dam		\$	131,164	\$	-	\$	131,164
Folsom Pumping Plant		\$	-	\$	241	\$	241
Gianelli, WR Pump Generator Plant		\$	1,107,852	\$	-	\$	1,107,852
Less: WRGPGP Dir Pump (San Felipe Unit)		\$	(14,291)	\$	-	\$	(14,291)
Spring Creek Power Plant		\$	-	\$	227	\$	227
Trinity Dam		\$	957,170	\$	-	\$	957,170
Total Ex O&M Storage:	2/	\$	2,181,894	\$	468	\$	2,182,363

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Facility/Contractor	Estimated O&M & Corps Expense	Estimated Project Use Energy Cost	Total Estimated Costs
Ref		< A-11>	(B+C)
<u>Conveyance Pumping</u>			
Corning Pumping Plant	\$ -	\$ 117	\$ 117
Dos Amigos Pumping Plant	\$ -	\$ 1,668	\$ 1,668
O'Neill Pump-Gen Plt	\$ -	\$ 818	\$ 818
Jones Pumping Plant	\$ -	\$ 6,460	\$ 6,460
Total Ex O&M Conveyance Pumping:	\$ -	\$ 9,063	\$ 9,063
<u>Direct Pumping</u>			
Glenn Valley WD	\$ -	\$ -	\$ -
Gianelli PGP - SFU	\$ 14,291	\$ 122	\$ 14,413
Contra Costa PP	\$ -	\$ -	\$ -
Colusa CWD (Incl. Arb./Will O&M Office)	\$ -	\$ 148	\$ 148
Corning WD	\$ -	\$ 32	\$ 32
Dunnigan WD	\$ -	\$ 2	\$ 2
Kanawha WD	\$ -	\$ 23	\$ 23
Orland-Artois WD	\$ -	\$ 30	\$ 30
Panoche WD - SLC	\$ -	\$ 0	\$ 0
Westside WD	\$ -	\$ 9	\$ 9
Pleasant Valley PP	\$ -	\$ 278	\$ 278
Pleasant Valley Relifts	\$ -	\$ 30	\$ 30
Proberta WD	\$ -	\$ 2	\$ 2
San Luis WD Relifts	\$ -	\$ 284	\$ 284
State-Delta PP - Cross Valley Canal	\$ -	\$ 43	\$ 43
Westlands WD Relifts	\$ -	\$ 1,435	\$ 1,435
Wintu PP	\$ -	\$ 38	\$ 38
Dos Amigos PP - Cross Valley Canal	\$ -	\$ 81	\$ 81
Pacheco PP	\$ -	\$ 82	\$ 82
Coyote PP	\$ -	\$ 11	\$ 11
Total Ex O&M Direct Pumping:	\$ 14,291	\$ 2,651	\$ 16,942
Total Extraordinary O&M:	\$ 2,196,186	\$ 12,183	\$ 2,208,369

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Ref			< A-11>	(B+C)
<u>Water Marketing Expense</u>				
Suisun Marsh Protection		\$ 641,773	\$ -	\$ 641,773
Contract Administration		\$ 7,660,306	\$ -	\$ 7,660,306
Water & Power Systems Control		\$ 4,728,612	\$ -	\$ 4,728,612
Other Expenses		\$ 3,696,935	\$ -	\$ 3,696,935
Hazardous Material Management Program		\$ 441,321	\$ -	\$ 441,321
General Expense	3/	\$ 1,381,068	\$ -	\$ 1,381,068
Less: Non-Permanent Contractor Revenue		\$ (94,640)	\$ -	\$ (94,640)
Total Water Marketing		\$ 18,455,375	\$ -	\$ 18,455,375
Grand Total		\$ 44,548,597	\$ 4,861,547	\$ 49,410,144

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FOOTNOTES

1/ Suballocation of San Felipe Unit Direct Pumping Costs:

Contractor	2014 Projected Deliveries (Sch A-12)	Ratios	XO&M	Direct Pumping Allocation (Sch A-11)			
			William R. Gianelli Pump-Generator Plant PUE	William R. Gianelli Pump-Generator Plant PUE	Pacheco PP	Coyote PP	Grand Total
San Benito County WD	12,782	0.50751	\$ 7,252.97	\$ 96,345.78	\$ 64,563.70	\$ -	\$ 160,909.48
Santa Clara Valley WD	12,403	0.49249	\$ 7,038.32	\$ 93,494.38	\$ 62,652.91	\$ 17,039.28	\$ 173,186.57
Total San Felipe	25,185	1.00000	\$ 14,291.29	\$ 189,840.16	\$ 127,216.61	\$ 17,039.28	\$ 334,096.05
Total San Felipe	25,185	0.01290					
All Other Contractors	1,927,097	0.98710					
Total Storage Del.	1,952,282	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 2014 Storage Deliveries	Storage 25,185	Storage 1,927,097	1,952,282
Ratios	0.01290	0.98710	1.00000
Allocated William R. Gianelli PG Costs:			
Project Use Energy Costs	*	\$ 2,939,401.66	\$ 2,939,401.66
Regeneration Credit	\$ -	\$ (2,331,464.53)	\$ (2,331,464.53)
Allocated Storage O&M Costs	\$ 253,894.29	\$ 19,427,833.59	\$ 19,681,727.88
Allocated William R. Gianelli PG XO&M Costs	*	\$ 1,107,852.18	\$ 1,107,852.18
Allocated XO&M Storage Costs	\$ 13,861.19	\$ 1,060,649.34	\$ 1,074,510.53
ARRA	\$ -	\$ -	\$ -
Total	\$ 267,755.48	\$ 22,204,272.24	\$ 22,472,027.72
Cost per Acre-foot	\$ 10.63	\$ 11.52	

* 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 2014 projected deliveries for Irrigation to the total Irrigation & M&I deliveries.

4/ Reclamation currently has a Use of Facilities Agreement with DWR for 2012 through 2016 whereby Reclamation has agreed to pay DWR for the operations and maintenance costs for conveyance of water that is pumped at DWR's Banks Pumping Plant and conveyed to O'Neill Forebay through the California Aqueduct. Reclamation agreed to pay portion of the costs associated with the installation, operation, maintenance, and removal of the temporary barriers. Operations of the barriers are essential to utilize Banks Pumping Plant to convey CVP water. In the past, Central Valley Operations Office has annually budgeted an amount to cover anticipated conveyance charges, however, beginning in 2012, this money was zeroed out and it has not been available to support this action. As of Dec 09, 2013, these are unfunded liabilities.