



CENTRAL VALLEY PROJECT
SCHEDULE OF ESTIMATED IRRIGATION DIRECT PUMPING OPERATION & MAINTENANCE COSTS
2022 IRRIGATION WATER RATES

A	B	C	D	E	F	G	H	I	J	K	L
2022 Projected Deliveries											
Facility/Contractor Ref.	Wintu PP <Sch A-12>	Tehama-Colusa Canal Relifts						Corning Canal Relifts			
		Colusa County WD <Sch A-12>	Dunnigan WD <Sch A-12>	Glenn Valley WD <Sch A-12>	Kanawha WD <Sch A-12>	Orland- Artois WD <Sch A-12>	Westside WD <Sch A-12>	Corning WD <Sch A-12>	Proberta WD <Sch A-12>		
Corning Canal											
Corning WD										5,458	
Proberta WD											205
Cow Creek Unit											
Bella Vista WD	2,845										
Tehama-Colusa Canal											
Colusa County WD		24,421									
Dunnigan WD			6,424								
Glenn Valley WD				875							
Kanawha WD					21,122						
Orland-Artois WD						16,780					
Westside WD							29,768				
Total Deliveries	2,845	24,421	6,424	875	21,122	16,780	29,768			5,458	205
Est. 2022 Non-Recurring O&M Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Est. 2022 O&M Cost	\$ 90,275	\$ 368,777	\$ 7,150	\$ -	\$ 37,818	\$ 88,965	\$ 64,618	\$ 64,618	\$ 55,197	\$ 492	\$ -
Total (Sch. A-9)	\$ 90,275	\$ 368,777	\$ 7,150	\$ -	\$ 37,818	\$ 88,965	\$ 64,618	\$ 64,618	\$ 55,197	\$ 492	\$ -
Direct Pumping: 3/											
Cost Per A/F Remittance to WAPA		\$ 15.10			\$ 1.79	\$ 5.30					
Cost Per A/F Offset for Direct Pumping	\$ 31.73		\$ 1.11	\$ -			\$ 2.17		\$ 10.11	\$ 2.40	
Other PUE Remittance to WAPA: 3/											
Paid as Other PUE		\$ 79,136			\$ 8,115	\$ 19,091					
Paid thru Direct Pumping PUE		\$ 3.24			\$ 0.38	\$ 1.14					
Credit in O&M Rate for Other PUE		\$ (3.24)			\$ (0.38)	\$ (1.14)					

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A	B	C	D	E	F	G	H	I	J	K	L
	San Luis Canal Relifts						San Felipe Out-of-Basin				
	Westlands WD 1/									Cross Valley Contractors 2/	
Facility/Contractor Ref.	Panoche WD <Sch A-12>	San Luis WD <Sch A-12>	Westlands WD Relifts <Sch A-12>	Pleasant Valley PP <Sch A-12>	Pleasant Valley Relifts <Sch A-12>	Total AF (D+E) Cost (D+E+F)	Gianelli PP	Coyote PP	Pacheco PP	State Delta PP <Sch A-12>	Dos Amigos PP <Sch A-12>
Cross Valley Canal											
County of Fresno										321	321
County of Tulare										401	401
Hills Valley ID										239	239
Kern-Tulare ID										5,696	5,696
Lower Tule River ID - CVC										3,862	3,862
Pixley ID										3,862	3,862
Tri-Valley WD										124	124
San Felipe Unit											
San Benito County WD							7,494			7,494	
Santa Clara Valley WD							12,273	12,273		12,273	
San Luis Canal											
Panoche WD -SLC	18,586										
San Luis WD - SLC		28,144									
Westlands WD - SLC			355,930	39,629	22,016	395,559					
Westlands WD - SLC (DD#2)			867	97	54	964					
Total Deliveries	18,586	28,144	356,797	39,726	22,070	396,523	19,767	12,273	19,767	14,505	14,505
							0.38				
Est. 2022 Non-Recurring O&M Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -				\$ -	\$ -
Est. 2022 O&M Cost	\$ 393	\$ 655,134	\$ 3,099,032	\$ 483,405	\$ 78,222	\$ 3,660,659	\$ 53,110	\$ 13,641	\$ 233,484	\$ 188,003	\$ 124,350
Total (Sch. A-9)	\$ 393	\$ 655,134	\$ 3,099,032.45	\$ 483,404.63	\$ 78,221.83	\$ 3,660,659.00	\$ 53,109.52	\$ 13,640.71	\$ 233,483.83	\$ 188,003	\$ 124,350
Direct Pumping: 3/											
Cost Per A/F Remittance to WAPA		\$ 23.28				\$ 9.23	\$ 2.69	\$ 1.11	\$ 11.81		
Cost Per A/F Offset for Direct Pumping	\$ 0.02									\$ 12.96	\$ 8.57
Other PUE Remittance to WAPA: 3/											
Paid as Other PUE		\$ 140,585	\$ 665,020.09	\$ 103,733.60	\$ 16,785.59	\$ 785,539.00	\$ 11,396.75	\$ 2,927.15	\$ 50,103.20		
Paid thru Direct Pumping PUE		\$ 5.00				\$ 1.98	\$ 0.58	\$ 0.24	\$ 2.53		
Credit in O&M Rate for Other PUE		\$ (5.00)				\$ (1.98)	\$ (0.58)	\$ (0.24)	\$ (2.53)		

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2022 IRRIGATION WATER RATES

FOOTNOTES:

1/ Westlands WD & Westlands WD DD#2 (DD#2) deliveries are based on firm supplies:

	Allocated 2022 Deliveries		
	Ratios	Westlands WD	DD#2
Westlands WD Relifts:			
High Side - Relift Pumps	0.50000	197,780	482
Low Side (LS) - Gravity Feed	0.39981	158,150	385
Subtotal	0.89981	355,930	867
Pleasant Valley PP:			
High Side - Relift Pump	0.05566	22,016	54
Coalinga Canal, LS - Gravity	0.04453	17,613	43
Subtotal (Pleasant Valley PP)	0.10019	39,629	97
Total - WWD Deliveries	1.0000	395,559	964

2/ Cross Valley Canal Estimated 2022 Project Use Energy Cost

	Dos Amigos PP	State Delta PP
<u>2022 PUE Estimate</u>		
Direct Billed	\$ 3,911,106	\$ 453,277
Cross Valley Canal 2022 Projected Cost	\$ 126,733	\$ 191,606
Total	\$ 4,037,839	\$ 644,883
	Dos Amigos PP	State Delta PP
Deliveries		
Ratio		
M&I	278	0.01881
Irrigation	14,505	0.98119
Total	14,783	1.00000

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.

CENTRAL VALLEY PROJECT
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2022 IRRIGATION WATER RATES

A	B Acre-Feet		D Ratio of Acre-Feet		F	G	H For Water Ratesetting		I
	M&I	Irrigation	M&I	Irrigation	Total	Total \$	M&I	Irrigation	
Ref	<Sch A-12>	<Sch A-12>	(B/(B+C))	(C/(B+C))	(D+E)	<Meter Costs>	(D*G)	(E*G)	
Used in Schedule 9									
Storage:									
Friant D&R	176	N/A	100.00%		100.00%	\$ 10,354	\$ 10,354	\$ -	
Shasta D&R (Includes Jdg F Carr PH)	1,157	2,674	30.20%	69.80%	100.00%	\$ 405,016	\$ 122,328	\$ 282,688	
Columbia Mowry (Based on Avg. KWH's)	86,894	481,773	15.28%	84.72%	100.00%	\$ 20,103	\$ 3,072	\$ 17,031	
Folsom Pump Plant	32,649	N/A	100.00%		100.00%	\$ 85,936	\$ 85,936	\$ -	
New Melones Dam & Reservoir	24,682	21,013	54.01%	45.99%	100.00%	\$ -	\$ -	\$ -	
Gianelli WR Pump-Gen Plt	253,396	1,422,453	15.12%	84.88%	100.00%	\$ 4,502,730	\$ 680,833	\$ 3,821,897	
Regen. Credit - San Luis PP	253,396	1,422,453	15.12%	84.88%	100.00%	\$ (4,188,525)	\$ (633,324)	\$ (3,555,201)	
SFU Gianelli WR PGP (Direct Pumping)	87,338	19,767	81.54%	18.46%	100.00%	\$ -	\$ -	\$ -	
Offsetting Revenue for PUE Paid to WAPA							\$ 269,199	\$ 566,415	
Conveyance Pumping (Direct Bill):									
Corning Pumping Plant	N/A	6,011		100.00%	100.00%	\$ 185,319	\$ -	\$ 185,319	
Dos Amigos Pumping Plant	11,809	444,421	2.59%	97.41%	100.00%	\$ 3,911,106	\$ 101,231	\$ 3,809,875	
O'Neill Pump-Gen Plt	99,569	466,158	17.60%	82.40%	100.00%	\$ 2,362,627	\$ 415,826	\$ 1,946,801	
Regen. Credit - O'Neill Pump-Gen Plt	99,569	466,158	17.60%	82.40%	100.00%	\$ (194,242)	\$ (34,187)	\$ (160,055)	
Jones Pumping Plant	153,777	1,075,398	12.51%	87.49%	100.00%	\$ 12,166,647	\$ 1,522,120	\$ 10,644,527	
In-Lieu of Jones Pumping						\$ 453,277	\$ -	\$ 453,277	
Total Conveyance Pumping Direct Bill							\$ 2,004,989	\$ 16,879,743	

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A	B Acre-Feet		D Ratio of Acre-Feet			G	H For Water Ratesetting	
Ref	M&I <Sch A-12>	Irrigation <Sch A-12>	M&I (B/(B+C))	Irrigation (C/(B+C))	Total (D+E)	Total \$ <Meter Costs>	M&I (D*G)	Irrigation (E*G)
Used in Schedule 11 Page 1								
Direct Pumping:								
Gianelli PGP - SFU	87,338	19,767	81.54%	18.46%	100.00%	\$ 287,773	\$ 234,664	\$ 53,110
Contra Costa PP	84,489	-	100.00%		100.00%	\$ 1,225,017	\$ 1,225,017	-
Colusa CWD (Incl. Arb./Will O&M Office)	125	24,421	0.51%	99.49%	100.00%	\$ 370,667	\$ 1,890	\$ 368,777
Kanawha WD	23	21,122	0.11%	99.89%	100.00%	\$ 37,858	\$ 40	\$ 37,818
Orland-Artois WD	N/A	16,780		100.00%	100.00%	\$ 88,965	-	\$ 88,965
Pleasant Valley PP	-	17,656		100.00%	100.00%	\$ 483,405	-	\$ 483,405
Pleasant Valley Relifts	N/A	22,070		100.00%	100.00%	\$ 78,222	-	\$ 78,222
San Luis WD Relifts	442	28,144	1.54%	98.46%	100.00%	\$ 665,412	\$ 10,279	\$ 655,134
Westlands WD Relifts	2,670	356,797	0.74%	99.26%	100.00%	\$ 3,122,226	\$ 23,193	\$ 3,099,032
Coyote PP - Out of Basin	40,966	6,137	86.97%	13.03%	100.00%	\$ 104,704	\$ 91,063	\$ 13,641
Pacheco PP - Out of Basin	87,338	19,767	81.54%	18.46%	100.00%	\$ 1,265,128	\$ 1,031,645	\$ 233,484
							2,617,791	5,111,586
Paid Directly As PUE to WAPA								
Glenn Valley WD	N/A	875		100.00%	100.00%	\$ -	\$ -	\$ -
Corning WD	N/A	5,458		100.00%	100.00%	\$ 55,197	-	\$ 55,197
Dunnigan WD	N/A	6,424		100.00%	100.00%	\$ 7,150	-	\$ 7,150
Westside WD	N/A	29,768		100.00%	100.00%	\$ 64,618	-	\$ 64,618
Proberta WD	N/A	205		100.00%	100.00%	\$ 492	-	\$ 492
Panoche WD - SLC	N/A	18,586		100.00%	100.00%	\$ 393	-	\$ 393
Pleasant Valley PP	5,584	-	100.00%		100.00%	\$ 152,889	\$ 152,889	-
State-Delta PP - Cross Valley Canal (CVC)	278	14,505	1.88%	98.12%	100.00%	\$ 191,606	\$ 3,603	\$ 188,003
Dos Amigos PP - CVC (Offset with Direct Pumping)	278	14,505	1.88%	98.12%	100.00%	\$ 126,733	\$ 2,383	\$ 124,350
Wintu PP	3,934	2,845	58.03%	41.97%	100.00%	\$ 215,096	\$ 124,821	\$ 90,275
City of Shasta Lake (Shasta PP)	1,178	-	100.00%		100.00%	\$ 1,755	\$ 1,755	-
Offsetting Revenue for PUE Paid to WAPA							285,452	530,478
Direct Pumping Total							\$ 2,903,242	\$ 5,642,064
Reimbursable Billing						\$ 5,820		
Project General						\$ 20,409		
Nonreimbursable F&W						\$ 7,990		
Nonreimbursable Demo Treatment						\$ 4,650		
						\$ 28,304,522	\$ 5,177,431	\$ 23,088,222

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A	B		C		D		E		F		G		B		C		D		E		F		G			
	Acre-Feet		Ratio of Acre-Feet		Total		Total \$		Cost to Determine Ratio		Ratio		Distribution		M&I		Irrigation		M&I		Irrigation		M&I		Irrigation	
	M&I	Irrigation	M&I	Irrigation	Total	Total	M&I	Irrigation	M&I	Irrigation	M&I	Irrigation	M&I	Irrigation	M&I	Irrigation	M&I	Irrigation	M&I	Irrigation	M&I	Irrigation	M&I	Irrigation	M&I	Irrigation
Ref	<Sch A-12>	<Sch A-12>	(C/(C+D))	(D/(C+D))	(E+F)	<Meter Costs>																				
Friant D&R	176	N/A	100.00%		100.00%	\$ 10,354	\$ 10,354	\$ -																		
Shasta D&R (Includes Jdg F Carr PH)	1,157	2,674	30.20%	69.80%	100.00%	\$ 405,016	\$ 122,328	\$ 282,688																		
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Folsom Pump Plant	32,649	N/A	100.00%		100.00%	\$ 85,936	\$ 85,936	\$ -																		
New Melones Dam & Reservoir	24,682	21,013	54.01%	45.99%	100.00%	\$ -	\$ -	\$ -																		
Gianelli WR Pump-Gen Plt	253,396	1,422,453	15.12%	84.88%	100.00%	\$ 4,502,730	\$ 680,833	\$ 3,821,897																		
Regen. Credit - San Luis PP	253,396	1,422,453	15.12%	84.88%	100.00%	\$ (4,188,525)	\$ (633,324)	\$ (3,555,201)																		
SFU Gianelli WR PGP (Direct Pumping)	87,338	19,767	81.54%	18.46%	100.00%	\$ -	\$ -	\$ -																		
Offsetting Revenue for Storage PUE Paid to WAPA							\$ 269,199	\$ 566,415																		
Offsetting Revenue for Direct Pumping PUE Paid to WAPA							\$ 285,452	\$ 530,478																		
Offsetting Revenue for Unpaid Costs from Current B6A							\$ -	\$ -																		
Total Offsetting Revenue							\$ 554,651	\$ 1,096,893																		

Determination of PUE sent to WAPA:

Based on Direct Pumping Cost:

Gianelli PGP - SFU	87,338	19,767				\$ 287,773	\$ 234,664	\$ 53,110	8.96%	1.04%	\$ 49,720	11,397
Contra Costa PP	84,489	-	100.00%		100.00%	\$ 1,225,017	\$ 1,225,017	\$ -	46.80%		\$ 259,553	
Colusa CWD (Incl. Arb./Will O&M Office)	125	24,421	0.51%	99.49%	100.00%	\$ 370,667	\$ 1,890	\$ 368,777	0.07%	7.21%	\$ 400	79,136
Kanawha WD	23	21,122	0.11%	99.89%	100.00%	\$ 37,858	\$ 40	\$ 37,818	0.00%	0.74%	\$ 9	8,115
Orland-Artois WD	N/A	16,780		100.00%	100.00%	\$ 88,965	\$ -	\$ 88,965		1.74%	\$ -	19,091
Pleasant Valley PP	5,584	17,656	24.03%	75.97%	100.00%	\$ 483,405	\$ -	\$ 483,405		9.46%	\$ -	103,734
Pleasant Valley Relifts	N/A	22,070		100.00%	100.00%	\$ 78,222	\$ -	\$ 78,222		1.53%	\$ -	16,786
San Luis WD Relifts	442	28,144	1.54%	98.46%	100.00%	\$ 665,412	\$ 10,279	\$ 655,134	0.39%	12.82%	\$ 2,178	140,585
Westlands WD Relifts	2,670	356,797	0.74%	99.26%	100.00%	\$ 3,122,226	\$ 23,193	\$ 3,099,032	0.89%	60.63%	\$ 4,914	665,020
Coyote PP - Out of Basin	40,966	6,137	86.97%	13.03%	100.00%	\$ 104,704	\$ 91,063	\$ 13,641	3.48%	0.27%	\$ 19,294	2,927
Pacheco PP - Out of Basin	87,338	19,767	81.54%	18.46%	100.00%	\$ 1,265,128	\$ 1,031,645	\$ 233,484	39.41%	4.57%	\$ 218,582	50,103
Total for Determining Rates to Remit to WAPA							\$ 2,617,791	\$ 5,111,586	100.00%	100.00%	\$ 554,651	\$ 1,096,893