



M&I 2021 Sch A-11 F.Z23.XLSM
09/23/2020

CENTRAL VALLEY PROJECT
SCHEDULE OF ESTIMATED M&I DIRECT PUMPING OPERATION & MAINTENANCE COSTS
2021 M&I WATER RATES

A	B	C	D	E	F	G	H	I	J	K
Projected 2020 Deliveries										
Ref	Contra Costa PP <Sch A-12>	Dos Amigos PP-CVC <Sch A-12>	Pleasant Valley PP <Sch A-12>	San Luis WD Relifts <Sch A-12>	State- Delta PP <Sch A-12>	T-C Canal Relifts Colusa County WD <Sch A-12>	T-C Canal Relifts Kanawha WD <Sch A-12>	Westlands WD Relifts <Sch A-12>	Wintu PP <Sch A-12>	Shasta PP <Sch A-12>
Contra Costa Canal										
Contra Costa WD	86,856									
Cow Creek Unit										
Bella Vista WD									3,985	
Cross Valley Canal										
County of Fresno		86				86				
County of Tulare		192				192				
San Luis Canal - Fresno										
City of Coalinga			5,123							
Westlands WD								2,643		
San Luis Canal - Tracy										
San Luis WD				438						
Tehama-Colusa Canal										
Colusa County WD						127				
Kanawha WD								17		
Toyon Pipeline										
City of Shasta Lake										1,181
Total Deliveries	86,856	278	5,123	438	278	127	17	2,643	3,985	1,181
Est. 2020 Non-Recurring O&M Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Est. 2020 O&M Cost	\$ 1,130,719	\$ 2,617	\$ 204,464	\$ 13,588	\$ 974	\$ 2,352	\$ 45	\$ 30,923	\$ 90,225	\$ 9,422
Total (Sch. A-9)	\$ 1,130,719	\$ 2,617	\$ 204,464	\$ 13,588	\$ 974	\$ 2,352	\$ 45	\$ 30,923	\$ 90,225	\$ 9,422
Direct Pumping: 1/										
Cost Per A/F Remittance to WAPA	\$ 13.02			\$ 31.02		\$ 18.46	\$ 2.58	\$ 11.70		
Cost Per A/F Offset for Direct Pumping		\$ 9.41	\$ 39.91		\$ 3.50				\$ 22.64	\$ 7.98
Other PUE Remittance to WAPA: 1/										
Paid as Other PUE	\$ 266,603			\$ 3,204		\$ 555	\$ 11	\$ 7,291		
Paid thru Direct Pumping PUE	\$ 3.07			\$ 7.31		\$ 4.35	\$ 0.61	\$ 2.76		
Credit in O&M Rate for Other PUE	\$ (3.07)			\$ (7.31)		\$ (4.35)	\$ (0.61)	\$ (2.76)		

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	San Felipe Out-of-Basin									
Ref	Gianelli PP <Sch A-12>	Coyote PP <Sch A-12>	Pacheco PP <Sch A-12>							
San Felipe Unit										
San Benito County WD	5,438		5,438							
Santa Clara Valley WD	85,005	85,005	85,005							
Total Deliveries	90,442	85,005	90,442							
Est. 2020 Non-Recurring O&M Cost	\$ -	\$ -	\$ -							
Est. 2020 O&M Cost	\$ 635,288	\$ 298,624	\$ 1,090,718							
Total (Sch. A-9)	\$ 635,288	\$ 298,624	\$ 1,090,718							
Direct Pumping: 1/										
Cost Per A/F Remittance to WAPA	\$ 7.02	\$ 3.51	\$ 12.06							
Cost Per A/F Offset for Direct Pumping										
Other PUE Remittance to WAPA: 1/										
Paid as Other PUE	\$ 149,789.61	\$ 70,410.28	\$ 257,171.92							
Paid thru Direct Pumping PUE	\$ 1.66	\$ 0.83	\$ 2.84							
Credit in O&M Rate for Other PUE	\$ (1.66)	\$ (0.83)	\$ (2.84)							

FOOTNOTES:

1/ 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.

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2021 M&I WATER RATES

A	B		C		D		E		F		G		H		I	
Ref	Acre-Feet		Ratio of Acre-Feet			Total \$		For Water Ratesetting								
	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 9

Storage:

Friant D&R	169	N/A	100.00%	100.00%	\$ 17,321	\$ 17,321	\$ -
Shasta D&R (Includes Jdg F Carr PH)	1,230	3,197	27.78%	72.22%	\$ 365,484	\$ 101,543	\$ 263,941
Columbia Mowry (Based on Avg. KWH's)	105,541	623,141	14.48%	85.52%	\$ 25,474	\$ 3,690	\$ 21,784
Folsom Pump Plant	32,519	N/A	100.00%	100.00%	\$ 139,788	\$ 139,788	\$ -
New Melones Dam & Reservoir	25,500	21,969	53.72%	46.28%	\$ -	\$ -	\$ -
Gianelli WR Pump-Gen Plt	254,465	1,386,224	15.51%	84.49%	\$ 4,193,707	\$ 650,429	\$ 3,543,279
Regen. Credit - San Luis PP	254,465	1,386,224	15.51%	84.49%	\$ (3,000,947)	\$ (465,436)	\$ (2,535,511)
SFU Gianelli WR PGP (Direct Pumping)	90,442	17,719	83.62%	16.38%	\$ -	\$ -	\$ -

Offsetting Revenue for PUE Paid to WAPA

\$ 447,334	\$ 1,293,493
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Conveyance Pumping (Direct Bill):

Corning Pumping Plant	N/A	7,653	100.00%	100.00%	\$ 289,188	\$ -	\$ 289,188
Dos Amigos Pumping Plant	10,932	420,034	2.54%	97.46%	\$ 4,056,528	\$ 102,896	\$ 3,953,631
O'Neill Pump-Gen Plt	101,790	439,382	18.81%	81.19%	\$ 2,380,701	\$ 447,790	\$ 1,932,911
Regen. Credit - O'Neill Pump-Gen Plt	101,790	439,382	18.81%	81.19%	\$ (54,304)	\$ (10,214)	\$ (44,090)
Jones Pumping Plant	156,851	1,050,136	13.00%	87.00%	\$ 19,707,286	\$ 2,561,019	\$ 17,146,267
In-Lieu of Jones Pumping					\$ 115,222	\$ -	\$ 115,222

Total Conveyance Pumping Direct Bill

\$ 3,101,491	\$ 23,393,128
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A	B		C		D		E		F		G		H		I	
	Acre-Feet		Ratio of Acre-Feet		Total		Total \$		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	90,442	17,719	83.62%	16.38%	100.00%	\$ 759,754	\$ 635,288	\$ 124,465								
Contra Costa PP	86,856	-	100.00%		100.00%	\$ 1,130,719	\$ 1,130,719	-								
Colusa CWD (Incl. Arb./Will O&M Office)	127	26,763	0.47%	99.53%	100.00%	\$ 496,367	\$ 2,352	\$ 494,015								
Kanawha WD	17	21,703	0.08%	99.92%	100.00%	\$ 56,001	\$ 45	\$ 55,956								
Orland-Artois WD	N/A	17,965		100.00%	100.00%	\$ 114,836	-	\$ 114,836								
Pleasant Valley PP	-	16,682		100.00%	100.00%	\$ 665,750	-	\$ 665,750								
Pleasant Valley Relifts	N/A	20,852		100.00%	100.00%	\$ 95,847	-	\$ 95,847								
San Luis WD Relifts	438	26,535	1.62%	98.38%	100.00%	\$ 836,758	\$ 13,588	\$ 823,170								
Westlands WD Relifts	2,643	337,112	0.78%	99.22%	100.00%	\$ 3,974,693	\$ 30,923	\$ 3,943,770								
Coyote PP - Out of Basin	42,502	5,351	88.82%	11.18%	100.00%	\$ 336,218	\$ 298,624	\$ 37,593								
Pacheco PP - Out of Basin	90,442	17,719	83.62%	16.38%	100.00%	\$ 1,304,411	\$ 1,090,718	\$ 213,693								
							3,202,258	6,569,095								
Paid Directly As PUE to WAPA																
Glenn Valley WD	N/A	977		100.00%	100.00%	-	-	-								
Corning WD	N/A	6,311		100.00%	100.00%	\$ 83,990	-	\$ 83,990								
Dunnigan WD	N/A	7,068		100.00%	100.00%	\$ 8,326	-	\$ 8,326								
Westside WD	N/A	31,833		100.00%	100.00%	\$ 42,446	-	\$ 42,446								
Proberta WD	N/A	562		100.00%	100.00%	\$ 2,682	-	\$ 2,682								
Panoche WD - SLC	N/A	17,327		100.00%	100.00%	\$ 849	-	\$ 849								
Pleasant Valley PP (City of Coalinga)	5,123	-	100.00%		100.00%	\$ 204,464	\$ 204,464	-								
State-Delta PP - Cross Valley Canal (CVC)	278	19,378	1.41%	98.59%	100.00%	\$ 68,892	\$ 974	\$ 67,917								
Dos Amigos PP - CVC (Offset with Direct Pumping)	278	19,378	1.41%	98.59%	100.00%	\$ 185,015	\$ 2,617	\$ 182,398								
Wintu PP	3,985	3,452	53.59%	46.41%	100.00%	\$ 168,375	\$ 90,225	\$ 78,151								
City of Shasta Lake (Shasta PP)	1,181	-	100.00%		100.00%	\$ 9,422	\$ 9,422	-								
Offsetting Revenue for PUE Paid to WAPA							307,702	466,759								
Direct Pumping Total							\$ 3,509,959	\$ 7,035,855								
Reimbursable Billing						\$ 8,407										
Project General						\$ 10,512										
Nonreimbursable F&W						\$ (15,699)										
Nonreimbursable Demo Treatment						\$ 15,520										
						\$ 38,800,000	\$ 7,058,784	\$ 31,722,476								

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SCHEDULE OF ESTIMATED M&I DIRECT PUMPING OPERATION & MAINTENANCE COSTS
2021 M&I WATER RATES

A	B	C	D	E	F	G
Ref	Cost to Determine Ratio		Ratio		Distribution	
	M&I	Irrigation	M&I	Irrigation	M&I	Irrigation
Offsetting Revenue for Storage PUE Paid to WAPA	\$ 447,334	\$ 1,293,493				
Offsetting Revenue for Direct Pumping PUE Paid to WAPA	\$ 307,702	\$ 466,759				
Offsetting Revenue for Unpaid Costs from Current B6A	\$ -	\$ -				
Total Offsetting Revenue	\$ 755,035	\$ 1,760,252				

Determination of PUE sent to WAPA:

Based on Direct Pumping Cost:

Gianelli PGP - SFU	\$ 635,288	\$ 124,465	19.84%	1.89%	\$ 149,790	33,352
Contra Costa PP	\$ 1,130,719	\$ -	35.31%		\$ 266,603	
Colusa CWD (Incl. Arb./Will O&M Office)	\$ 2,352	\$ 494,015	0.07%	7.52%	\$ 555	132,376
Kanawha WD	\$ 45	\$ 55,956	0.00%	0.85%	\$ 11	14,994
Orland-Artois WD	\$ -	\$ 114,836		1.75%	\$ -	30,771
Pleasant Valley PP	\$ -	\$ 665,750		10.13%	\$ -	178,394
Pleasant Valley Relifts	\$ -	\$ 95,847		1.46%	\$ -	25,683
San Luis WD Relifts	\$ 13,588	\$ 823,170	0.42%	12.53%	\$ 3,204	220,576
Westlands WD Relifts	\$ 30,923	\$ 3,943,770	0.97%	60.04%	\$ 7,291	1,056,771
Coyote PP - Out of Basin	\$ 298,624	\$ 37,593	9.33%	0.57%	\$ 70,410	10,074
Pacheco PP - Out of Basin	\$ 1,090,718	\$ 213,693	34.06%	3.25%	\$ 257,172	57,261
Total for Determining Rates to Remit to WAPA	\$ 3,202,258	\$ 6,569,095	100.00%	100.00%	\$ 755,035	\$ 1,760,252