

M&I 2020 Sch A-11 F.Z22.XLSM  
09/18/2019

CENTRAL VALLEY PROJECT  
SCHEDULE OF ESTIMATED M&I DIRECT PUMPING OPERATION & MAINTENANCE COSTS  
2020 M&I WATER RATES

A	B	C	D	E	F	G	H	I	J	K
Ref	Projected 2020 Deliveries									
	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>
<b>Contra Costa Canal</b>										
Contra Costa WD	96,890									
<b>Cow Creek Unit</b>										
Bella Vista WD									4,190	
<b>Cross Valley Canal</b>										
County of Fresno		86			86					
County of Tulare		192			192					
<b>San Luis Canal - Fresno</b>										
City of Coalinga			5,108							
Westlands WD								2,687		
<b>San Luis Canal - Tracy</b>										
San Luis WD				435						
<b>Tehama-Colusa Canal</b>										
Colusa County WD						136				
Kanawha WD							13			
<b>Toyon Pipeline</b>										
City of Shasta Lake										1,109
Total Deliveries	96,890	278	5,108	435	278	136	13	2,687	4,190	1,109
Est. 2020 Non-Recurring O&M Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Est. 2020 O&M Cost	\$ 825,878	\$ 2,756	\$ 196,786	\$ 9,116	\$ 1,157	\$ 1,924	\$ 27	\$ 28,111	\$ 59,994	\$ 1,381
Total (Sch. A-9)	\$ 825,878	\$ 2,756	\$ 196,786	\$ 9,116	\$ 1,157	\$ 1,924	\$ 27	\$ 28,111	\$ 59,994	\$ 1,381
<b>Direct Pumping: 1/</b>										
Cost Per A/F Remittance to WAPA	\$ 8.52			\$ 20.96		\$ 14.19	\$ 2.11	\$ 10.46		
Cost Per A/F Offset for Direct Pumping		\$ 9.92	\$ 38.52		\$ 4.16				\$ 14.32	\$ 1.24
<b>Other PUE Remittance to WAPA: 1/</b>										
Paid as Other PUE	\$ 157,295			\$ 1,736		\$ 366	\$ 5	\$ 5,354		
Paid thru Direct Pumping PUE	\$ 1.62			\$ 3.99		\$ 2.70	\$ 0.40	\$ 1.99		
Credit in O&M Rate for Other PUE	\$ (1.62)			\$ (3.99)		\$ (2.70)	\$ (0.40)	\$ (1.99)		

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Ref	San Felipe Out-of-Basin		
	Gianelli PP <Sch A-12>	Coyote PP <Sch A-12>	Pacheco PP <Sch A-12>
<b>San Felipe Unit</b>			
San Benito County WD	4,001		4,001
Santa Clara Valley WD	85,208	85,208	85,208
Total Deliveries	89,209	85,208	89,209
Est. 2020 Non-Recurring O&M Cost	\$ -	\$ -	\$ -
Est. 2020 O&M Cost	\$ 733,092	\$ 220,873	\$ 713,724
Total (Sch. A-9)	\$ 733,092	\$ 220,873	\$ 713,724
<b>Direct Pumping: 1/</b>			
Cost Per A/F Remittance to WAPA	\$ 8.22	\$ 2.59	\$ 8.00
Cost Per A/F Offset for Direct Pumping			
<b>Other PUE Remittance to WAPA: 1/</b>			
Paid as Other PUE	\$ 139,622.66	\$ 42,066.85	\$ 135,933.90
Paid thru Direct Pumping PUE	\$ 1.57	\$ 0.49	\$ 1.52
Credit in O&M Rate for Other PUE	\$ (1.57)	\$ (0.49)	\$ (1.52)

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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2020 M&I WATER RATES

A	B	C	D	E	F	G	H	I
Ref	Acre-Feet		Ratio of Acre-Feet			Total \$ <Meter Costs>	For Water Ratesetting	
	M&I <Sch A-12>	Irrigation <Sch A-12>	M&I (B/(B+C))	Irrigation (C/(B+C))	Total (D+E)		M&I (D*G)	Irrigation (E*G)

**Used in Schedule 9**

**Storage:**

Friant D&R	169	N/A	100.00%	100.00%	\$ 15,794	\$ 15,794	\$ -
Shasta D&R (Includes Jdg F Carr PH)	1,297	3,736	25.77%	74.23%	\$ 303,557	\$ 78,237	\$ 225,320
Columbia Mowry (Based on Avg. KWH's)	94,394	594,511	13.70%	86.30%	\$ 21,956	\$ 3,008	\$ 18,947
Folsom Pump Plant	33,216	N/A	100.00%		\$ 82,949	\$ 82,949	\$ -
New Melones Dam & Reservoir	27,912	25,900	51.87%	48.13%	\$ -	\$ -	\$ -
Gianelli WR Pump-Gen Plt	270,338	1,413,838	16.05%	83.95%	\$ 3,061,682	\$ 491,451	\$ 2,570,232
Regen. Credit - San Luis PP	270,338	1,413,838	16.05%	83.95%	\$ (2,810,509)	\$ (451,133)	\$ (2,359,375)
SFU Gianelli WR PGP (Direct Pumping)	89,209	24,578	78.40%	21.60%	\$ -	\$ -	\$ -

**Offsetting Revenue for PUE Paid to WAPA**

						<b>\$ 220,306</b>	<b>\$ 455,124</b>	

**Conveyance Pumping (Direct Bill):**

Corning Pumping Plant	N/A	11,515	100.00%	100.00%	\$ 220,254	\$ -	\$ 220,254
Dos Amigos Pumping Plant	11,011	467,893	2.30%	97.70%	\$ 4,748,335	\$ 109,171	\$ 4,639,164
O'Neill Pump-Gen Plt	100,632	494,352	16.91%	83.09%	\$ 2,280,509	\$ 385,710	\$ 1,894,799
Regen. Credit - O'Neill Pump-Gen Plt	100,632	494,352	16.91%	83.09%	\$ (78,390)	\$ (13,258)	\$ (65,132)
Jones Pumping Plant	156,733	1,163,331	11.87%	88.13%	\$ 19,210,812	\$ 2,280,931	\$ 16,929,881
In-Lieu of Jones Pumping					\$ 436,650	\$ -	\$ 436,650

**Total Conveyance Pumping Direct Bill**

						<b>\$ 2,762,554</b>	<b>\$ 24,055,616</b>

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2020 M&I WATER RATES

A	B	C	D	E	F	G	H	I
Ref	Acre-Feet		Ratio of Acre-Feet			Total \$ <Meter Costs>	For Water Ratesetting	
	M&I <Sch A-12>	Irrigation <Sch A-12>	M&I (B/(B+C))	Irrigation (C/(B+C))	Total (D+E)		M&I (D*G)	Irrigation (E*G)
<b>Used in Schedule 11 Page 1</b>								
<b>Direct Pumping:</b>								
Gianelli PGP - SFU	89,209	24,578	78.40%	21.60%	100.00%	\$ 935,063	\$ 733,092	\$ 201,972
Contra Costa PP	96,890	-	100.00%		100.00%	\$ 825,878	\$ 825,878	\$ -
Colusa CWD (Incl. Arb./Will O&M Office)	136	30,785	0.44%	99.56%	100.00%	\$ 438,808	\$ 1,924	\$ 436,884
Kanawha WD	13	24,144	0.05%	99.95%	100.00%	\$ 51,069	\$ 27	\$ 51,042
Orland-Artois WD	N/A	22,713		100.00%	100.00%	\$ 105,709	\$ -	\$ 105,709
Pleasant Valley PP	-	18,193		100.00%	100.00%	\$ 700,834	\$ -	\$ 700,834
Pleasant Valley Relifts	N/A	22,741		100.00%	100.00%	\$ 91,499	\$ -	\$ 91,499
San Luis WD Relifts	435	34,650	1.24%	98.76%	100.00%	\$ 735,214	\$ 9,116	\$ 726,098
Westlands WD Relifts	2,687	367,644	0.73%	99.27%	100.00%	\$ 3,874,089	\$ 28,111	\$ 3,845,979
Coyote PP - Out of Basin	42,604	6,068	87.53%	12.47%	100.00%	\$ 252,329	\$ 220,873	\$ 31,456
Pacheco PP - Out of Basin	89,209	24,578	78.40%	21.60%	100.00%	\$ 910,359	\$ 713,724	\$ 196,636
							<b>2,532,743</b>	<b>6,388,108</b>
<b>Paid Directly As PUE to WAPA</b>								
Glenn Valley WD	N/A	1,013		100.00%	100.00%	\$ -	\$ -	\$ -
Corning WD	N/A	8,050		100.00%	100.00%	\$ 68,417	\$ -	\$ 68,417
Dunnigan WD	N/A	8,155		100.00%	100.00%	\$ 7,033	\$ -	\$ 7,033
Westside WD	N/A	33,317		100.00%	100.00%	\$ 43,076	\$ -	\$ 43,076
Proberta WD	N/A	1,225		100.00%	100.00%	\$ 1,923	\$ -	\$ 1,923
Panoche WD - SLC	N/A	23,398		100.00%	100.00%	\$ 181	\$ -	\$ 181
Pleasant Valley PP (City of Coalinga)	5,108	-	100.00%		100.00%	\$ 196,786	\$ 196,786	\$ -
State-Delta PP - Cross Valley Canal (CVC)	278	44,224	0.62%	99.38%	100.00%	\$ 185,143	\$ 1,157	\$ 183,986
Dos Amigos PP - CVC (Offset with Direct Pumping)	278	44,224	0.62%	99.38%	100.00%	\$ 441,240	\$ 2,756	\$ 438,484
Wintu PP	4,190	5,950	41.32%	58.68%	100.00%	\$ 145,178	\$ 59,994	\$ 85,185
City of Shasta Lake (Shasta PP)	1,109	-	100.00%		100.00%	\$ 1,381	\$ 1,381	\$ -
							<b>262,073</b>	<b>828,284</b>
<b>Offsetting Revenue for PUE Paid to WAPA</b>								
							<b>\$ 2,794,817</b>	<b>\$ 7,216,393</b>
<b>Direct Pumping Total</b>								
Reimbursable Billing						\$ 6,876		
Project General						\$ 12,118		
Nonreimbursable F&W						\$ 42,664		
Nonreimbursable Demo Treatment						\$ 16,986		
						<b>\$ 37,583,454</b>	<b>\$ 5,777,677</b>	<b>\$ 31,727,133</b>

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2020 M&I WATER RATES

A	B	C	D	E	F	G
	Cost to Determine Ratio		Ratio		Distribution	
Ref	M&I	Irrigation	M&I	Irrigation	M&I	Irrigation
Offsetting Revenue for Storage PUE Paid to WAPA	\$ 220,306	\$ 455,124				
Offsetting Revenue for Direct Pumping PUE Paid to WAPA	\$ 262,073	\$ 828,284				
Offsetting Revenue for Unpaid Costs from Current B6A	\$ -	\$ -				
<b>Total Offsetting Revenue</b>	<b>\$ 482,379</b>	<b>\$ 1,283,408</b>				

**Determination of PUE sent to WAPA:**

**Based on Direct Pumping Cost:**

Gianelli PGP - SFU	\$ 733,092	\$ 201,972	28.94%	3.16%	\$ 139,623	40,577
Contra Costa PP	\$ 825,878	\$ -	32.61%		\$ 157,295	
Colusa CWD (Incl. Arb./Will O&M Office)	\$ 1,924	\$ 436,884	0.08%	6.84%	\$ 366	87,772
Kanawha WD	\$ 27	\$ 51,042	0.00%	0.80%	\$ 5	10,255
Orland-Artois WD	\$ -	\$ 105,709		1.65%	\$ -	21,238
Pleasant Valley PP	\$ -	\$ 700,834		10.97%	\$ -	140,802
Pleasant Valley Relifts	\$ -	\$ 91,499		1.43%	\$ -	18,383
San Luis WD Relifts	\$ 9,116	\$ 726,098	0.36%	11.37%	\$ 1,736	145,877
Westlands WD Relifts	\$ 28,111	\$ 3,845,979	1.11%	60.21%	\$ 5,354	772,680
Coyote PP - Out of Basin	\$ 220,873	\$ 31,456	8.72%	0.49%	\$ 42,067	6,320
Pacheco PP - Out of Basin	\$ 713,724	\$ 196,636	28.18%	3.08%	\$ 135,934	39,505
<b>Total for Determining Rates to Remit to WAPA</b>	<b>\$ 2,532,743</b>	<b>\$ 6,388,108</b>	<b>100.00%</b>	<b>100.00%</b>	<b>\$ 482,379</b>	<b>\$ 1,283,408</b>