RECLAMATION
Managing Water in the West

U.S. Department of the Interior
Bureau of Reclamation

IRR 2015 Sch A-11 F.Z17.XLSM
09/16/2014

CENTRAL VALLEY PROJECT
SCHEDULE OF ESTIMATED IRRIGATION DIRECT PUMPING OPERATION & MAINTENANCE COSTS
2015 IRRIGATION WATER RATES

A	B	C	D	E	F	G	H	I	J	K
	2015 Projected Deliveries									
			Tehama-Colusa Canal Relifts						Corning Canal Relifts	
Facility/Contractor	**Wintu PP**		**Colusa County**	**Dunnigan WD**	**Glenn Valley**	**Kanawha WD**	**Orland-Artois WD**	**Westsi**	**Corning WD**	**Proberta WD**
Ref	<Sch A-12>		<Sch A-12>	<Sch A-12>	<Sch A-12>	<Sch A-12>	<Sch A-12>	<Sch A-12>	<Sch A-12>	<Sch A-12>
Corning Canal										
Corning WD									11,193	
Proberta WD										2,359
Cow Creek Unit										
Bella Vista WD	6,455									
Tehama-Colusa Canal										
Colusa County WD			37,366							
Dunnigan WD				9,672						
Glenn Valley WD					1,136					
Kanawha WD						28,762				
Orland-Artois WD							33,481			
Westside WD								37,688		
Total Deliveries	6,455		37,366	9,672	1,136	28,762	33,481	37,688	11,193	2,359
Est. 2015 XO&M Cost	$ 3,226		$ 14,416	$ 237		$ 2,294	$ 3,353	$ 912	$ 3,007	$ 186
Est. 2015 O&M Cost	$ 74,340		$ 332,173	$ 5,470	$ -	$ 52,855	$ 77,258	$ 21,018	$ 69,287	$ 4,287
Total (Sch. A9)	$ 77,567		$ 346,588	$ 5,707	$ -	$ 55,149	$ 80,611	$ 21,930	$ 72,294	$ 4,473
Cost Per A/F	$ 12.02		$ 9.28	$ 0.59	$ -	$ 1.92	$ 2.41	$ 0.58	$ 6.46	$ 1.90

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		San Luis Canal Relifts								
				Westlands WD 1/					Cross Valley Contractors 2/	
Facility/Contractor		**Panoche WD**	**San Luis WD**	**Westlands WD Relifts**	**Pleasant Valley PP**	**Pleasant Valley Rifts**	**Total**		**State Delta PP**	**Dos Amigos PP**
Ref		<Sch A-12>	<Sch A-12>	<Sch A-12>	<Sch A-12>	<Sch A-12>	(E+F)		<Sch A-12>	<Sch A-12>
Cross Valley Canal										
County of Fresno									690	690
County of Tulare									1,407	1,407
Hills Valley ID									890	890
Kern-Tulare ID									15,007	15,007
Lower Tule River ID - CVC									7,029	7,029
Pixley ID									7,029	7,029
Tri-Valley WD									217	217
San Luis Canal										
Panoche WD -SLC		30,281								
San Luis WD - SLC			34,699							
Westlands WD - SLC				409,205	45,907	8,706	455,112			
Westlands WD - SLC (DD#2)				1,145	128	24	1,273			
Total Deliveries		30,281	34,699	410,350	46,035	8,731	456,385		32,269	32,269
Est. 2015 XO&M Cost		$ 42	$ 24,892	$ 97,486	$ 16,664	$ 2,125	$ 116,275		$ 7,781	$ 5,671
Est. 2015 O&M Cost		$ 959	$ 573,580	$ 2,246,320	$ 383,978	$ 48,962	$ 2,679,260		$ 179,293	$ 130,666
Total (Sch. A-9)		$ 1,000	$ 598,472	$ 2,343,806	$ 400,642	$ 51,087	$ 2,795,535		$ 187,074	$ 136,337
Cost Per A/F		$ 0.03	$ 17.25				$ 6.13		$5.80	$4.23

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FOOTNOTES:

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

		Allocated 2015 Deliveries	
	Ratios	**Westlands WD**	**DD#2**
Westlands WD Relifts:			
High Side - Relift Pumps	0.26957	122,682	343
Low Side (LS) - Gravity Feed	0.62957	286,523	802
Subtotal	0.89913	409,205	1,145
Pleasant Valley PP:			
High Side - Relift Pump	0.01913	8,706	24
Coalinga Canal, LS - Gravity	0.08174	37,200	104
Subtotal (Pleasant Valley PP)	0.10087	45,907	128
Total - WWD Deliveries	1.0000	455,112	1,273

2/ Cross Valley Canal Estimated 2015 Project Use Energy Cost

	Dos Amigos PP	**State Delta PP**
2015 PUE Estimate		
Direct Billed	$ 2,163,932	$ 402,864
Cross Valley Canal 2015 Projected Cost	$ 134,604	$ 184,697
Total	$ 2,298,536	$ 587,560

	Deliveries	Ratio	**Dos Amigos PP**	**State Delta PP**
M&I	973	0.02926	$ 3,938	$ 5,403
Irrigation	32,269	0.97074	$ 130,666	$ 179,293
Total	33,242	1.00000	$ 134,604	$ 184,697

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A	B	C	D	E	F	G	H	I	J
		Acre-Feet		**Ratio of Acre-Feet**				**For Water Ratesetting**	
		M&I	**Irrigation**	**M&I**	**Irrigation**	**Total**	**Total $**	**M&I**	**Irrigation**
Ref		<Sch A-12>	<Sch A-12>	(C/(C+D))	(D/(C+D))	(E+F)	<Meter Costs>	(E*H)	(F*H)
Used in Schedule 9									
Storage:									
Friant D&R		147	N/A	100.00%		100.00%	$ 7,411	$ 7,411	$ -
Shasta D&R (Includes Jdg F Carr PH)		1,650	3,148	34.39%	65.61%	100.00%	$ 188,411	$ 64,804	$ 123,607
Columbia Mowry (Based on Avg. KWH's)		68,778	484,944	12.42%	87.58%	100.00%	$ 16,297	$ 2,024	$ 14,272
Folsom Pump Plant		34,114	N/A	100.00%		100.00%	$ 74,479	$ 74,479	$ -
New Melones Dam & Reservoir		33,300	39,311	45.86%	54.14%	100.00%	$ 3,174	$ 1,455	$ 1,718
Gianelli WR Pump-Gen Plt		8,399	367,943	2.23%	97.77%	100.00%	$ 2,790,047	$ 62,269	$ 2,727,778
Regen. Credit - San Luis PP		8,399	367,943	2.23%	97.77%	100.00%	$ (2,646,969)	$ (59,076)	$ (2,587,893)
SFU Gianelli WR PGP (Direct Pumping)		98,319	26,399	78.83%	21.17%	100.00%	$ -	$ -	$ -
Conveyance Pumping:									
Corning Pumping Plant		N/A	16,358		100.00%	100.00%	$ 195,975	$ -	$ 195,975
Dos Amigos Pumping Plant		11,421	522,981	2.14%	97.86%	100.00%	$ 2,163,932	$ 46,247	$ 2,117,685
O'Neill Pump-Gen Plt		110,318	552,032	16.66%	83.34%	100.00%	$ 1,503,153	$ 250,358	$ 1,252,795
Regen. Credit - O'Neill Pump-Gen Plt		110,318	552,032	16.66%	83.34%	100.00%	$ (199,664)	$ (33,255)	$ (166,409)
Jones Pumping Plant		195,718	1,471,235	11.74%	88.26%	100.00%	$ 11,398,644	$ 1,338,320	$ 10,060,324
In-Lieu of Jones Pumping							$ 402,864	$ -	$ 402,864
Out-of-Basin Pumping:									
Coyote PP		46,853	6,785	87.35%	12.65%	100.00%	$ 251,710	$ 219,871	$ 31,839
Pacheco PP		98,319	26,399	78.83%	21.17%	100.00%	$ 1,231,158	$ 970,556	$ 260,602

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		Acre-Feet		**Ratio of Acre-Feet**				**For Water Ratesetting**	
		M&I	**Irrigation**	**M&I**	**Irrigation**	**Total**	**Total $**	**M&I**	**Irrigation**
Ref		<Sch A-12>	<Sch A-12>	(C/(C+D))	(D/(C+D))	(E+F)	<Meter Costs>	(E*H)	(F*H)
Used in Schedule 11 Page 1									
Direct Pumping:									
Glenn Valley WD		N/A	1,136		100.00%	100.00%		$ -	$ -
Gianelli PGP - SFU		98,319	26,399				$ 924,610	$ 728,895	$ 195,714
Contra Costa PP		95,757	-	100.00%		100.00%	$ 657,437	$ 657,437	$ -
Colusa CWD (Incl. Arb./Will O&M Office)		113	37,366	0.30%	99.70%	100.00%	$ 333,173	$ 1,000	$ 332,173
Corning WD		N/A	11,193		100.00%	100.00%	$ 69,287	$ -	$ 69,287
Dunnigan WD		N/A	9,672		100.00%	100.00%	$ 5,470	$ -	$ 5,470
Kanawha WD		5	28,762	0.02%	99.98%	100.00%	$ 52,865	$ 10	$ 52,855
Orland-Artois WD		N/A	33,481		100.00%	100.00%	$ 77,258	$ -	$ 77,258
Panoche WD - SLC		N/A	30,281		100.00%	100.00%	$ 959	$ -	$ 959
Westside WD		N/A	37,688		100.00%	100.00%	$ 21,018	$ -	$ 21,018
Pleasant Valley PP		5,356	37,305	12.56%	87.44%	100.00%	$ 439,110	$ 55,132	$ 383,978
Pleasant Valley Relifts		N/A	8,731		100.00%	100.00%	$ 48,962	$ -	$ 48,962
Proberta WD		N/A	2,359		100.00%	100.00%	$ 4,287	$ -	$ 4,287
San Luis WD Relifts		620	34,699	1.76%	98.24%	100.00%	$ 583,828	$ 10,249	$ 573,580
State-Delta PP - Cross Valley Canal		973	32,269	2.93%	97.07%	100.00%	$ 184,697	$ 5,403	$ 179,293
Westlands WD Relifts		2,679	410,350	0.65%	99.35%	100.00%	$ 2,260,984	$ 14,664	$ 2,246,320
Wintu PP		4,697	6,455	42.12%	57.88%	100.00%	$ 128,437	$ 54,096	$ 74,340
City of Shasta Lake (Shasta PP)		1,808	-	100.00%		100.00%	$ 42,412	$ 42,412	$ -
Dos Amigos PP - Cross Valley Canal		973	32,269	2.93%	97.07%	100.00%	$ 134,604	$ 3,938	$ 130,666
Reimbursable Billing							$ 5,770		
Project General							$ 12,992		
Nonreimbursable F&W							$ 31,222		
							$ 23,400,000	$ 4,518,698	$ 18,831,319