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Sent: Thursday, July 31, 2014 1:54 PM
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Subject: Conserved Water Accounting under TUCP Order

Les--

In its May 2, 2014 Order Modifying and Renewing an Order that Approved a Temporary Urgency Change in License and Permit Terms and Conditions Requiring Compliance with the Delta Water Quality Objectives in Response to Drought Conditions, the State Water Resources Control Board (Board) required the Department of Water Resources (DWR) and the U.S. Bureau of Reclamation (Reclamation) to "calculate and maintain a record of the amount of water conserved through the changes authorized by this Order" and to "submit such records on a monthly basis to the State Water Board by the end of the following month."

In compliance with that requirement, DWR and Reclamation (the Projects) are presenting the attached table showing daily accounting for conserved water under the Order for the month of June, along with the detailed summary below.

Under the terms of D-1641, in a Critical Year when the May 1 Sac River Index is less than 8.1 MAF at the 90% exceedance level, the outflow requirement decreases from a 3-day average of 7,100 cfs to a 14-day average of 4,000 cfs. Anticipating that Delta salinity would need to be maintained at low levels during June in order to better contend with an extremely dry summer, the Projects opted not to request any modification to the outflow requirement any more than what was allowed under D-1641. However, the Projects did request, and the Board approved, the continued modification of the Western Delta agricultural standard compliance point from Emmaton to Threemile Slough.

The May 2 Order was in effect beginning on June 1 as Emmaton electrical conductivity (EC) continued to be above the required limit through almost the entire month. DSM2 modeling indicates that increasing releases in the first half of June would have kept 14-day EC values at Emmaton below the standard for the entire month.

By modifying the Agricultural standard from Emmaton to Threemile Slough, the Projects conserved approximately 89 TAF in June. In total, the TUCP Order has allowed the Projects to conserve approximately 353 TAF February through June.

If you have any questions or would like more information, please contact Mr. Dan Yamanaka at (916) 574-0456 or Mr. Paul Fujitani at (916) 979-2197.

Thank you!

Tracy Hinojosa
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JUNE date	X2 (0 days at Chipps Island, 0 days at Collinsville; 0 Chipps Island carry-over days)						TUCP in Effect		Daily Combined Exports (cfs)	Emmaton Historical 14- day EC (uS/cm)	Emmaton Modeled 14- Day EC (uS/cm)	ESTIMATED Emmaton Savings ¹ (cfs)	Total Δ Outflow (cfs)	Water Conserved (TAF)
	equivalent 14- day outflow under D1641	calculated 14-day outflow	daily EC at Chipps Isl.	14-day EC at Chipps Isl.	daily EC at CLL	14-day EC at CLL	for Emmaton	for Outflow						
6/1/2014	4,000	3,699	14.54	13.89	10.43	9.65	x		1,218	3,195	2,640	1,500	1,801	3.57
6/2/2014	4,000	3,741	15.80	14.01	10.99	9.75	x		1,026	3,226	2,645	1,500	1,759	3.49
6/3/2014	4,000	3,737	14.43	14.09	9.93	9.82	x		1,013	3,250	2,645	1,500	1,763	3.50
6/4/2014	4,000	3,769	13.21	14.14	8.99	9.86	x		1,018	3,265	2,641	3,000	3,231	6.41
6/5/2014	4,000	3,820	13.48	14.19	9.26	9.93	x		1,043	3,265	2,632	3,000	3,180	6.31
6/6/2014	4,000	3,873	13.79	14.21	9.68	9.95	x		1,066	3,249	2,615	3,000	3,127	6.20
6/7/2014	4,000	3,968	13.72	14.20	9.62	9.94	x		773	3,214	2,588	3,000	3,032	6.01
6/8/2014	4,000	4,068	12.67	14.12	8.58	9.84	x		650	3,153	2,554	3,000	3,000	5.95
6/9/2014	4,000	4,152	13.00	14.04	8.80	9.76	x		686	3,109	2,515	3,000	3,000	5.95
6/10/2014	4,000	4,194	15.45	14.10	10.77	9.78	x		660	3,117	2,470	3,000	3,000	5.95
6/11/2014	4,000	4,195	16.80	14.30	11.90	9.93	x		634	3,219	2,426	3,000	3,000	5.95
6/12/2014	4,000	4,158	16.05	14.46	11.03	10.07	x		654	3,311	2,395	3,000	3,000	5.95
6/13/2014	4,000	4,177	---	14.44	---	10.04	x		654	3,321	2,380	3,000	3,000	5.95
6/14/2014	4,000	4,245	14.05	14.38	8.44	9.88	x		644	3,310	2,382	3,000	3,000	5.95
6/15/2014	4,000	4,246	15.00	14.42	9.81	9.83	x		658	3,337	2,403	3,000	3,000	5.95
6/16/2014	4,000	4,285	15.24	14.38	9.54	9.72	x		670	3,357	2,441	3,000	3,000	5.95
6/17/2014	4,000	4,388	13.36	14.29	9.14	9.66	x		672	3,375	2,482		0	0.00
6/18/2014	4,000	4,463	12.21	14.22	8.34	9.61	x		685	3,388	2,523		0	0.00
6/19/2014	4,000	4,544	12.40	14.13	8.33	9.54	x		661	3,402	2,563		0	0.00
6/20/2014	4,000	4,630	12.52	14.04	8.42	9.44	x		664	3,404	2,598		0	0.00
6/21/2014	4,000	4,661	13.05	13.98	8.49	9.35	x		653	3,423	2,630		0	0.00
6/22/2014	4,000	4,674	13.11	14.02	8.73	9.36	x		675	3,448	2,653		0	0.00
6/23/2014	4,000	4,689	13.17	14.03	9.02	9.38	x		694	3,446	2,668		0	0.00
6/24/2014	4,000	4,770	13.80	13.90	9.16	9.26	x		647	3,372	2,677		0	0.00
6/25/2014	4,000	4,891	12.64	13.58	9.21	9.05	x		670	3,249	2,680		0	0.00
6/26/2014	4,000	5,023	13.42	13.38	8.91	8.89	x		675	3,136	2,671		0	0.00
6/27/2014	4,000	5,158	13.14	13.36	8.71	8.87	x		675	3,061	2,648		0	0.00
6/28/2014	4,000	5,241	12.61	13.26	8.39	8.87	x		637	2,993	2,609		0	0.00
6/29/2014	4,000	5,323	11.98	13.05	7.76	8.72	x		1,361	2,866	2,551		0	0.00
6/30/2014	4,000	5,372	12.22	12.83	7.89	8.61			1,387	2,736	2,479		0	0.00

Total for June (TAF): 89.04

¹From results of DSM2 modeling.