

**From:** Yamanaka, Dan@DWR

**Sent:** Wednesday, May 27, 2015 4:43 PM

**To:** Grober, Les@Waterboards

**Cc:** Stein, Russell@DWR; Rea, Maria@NOAA; [pfujitani@usbr.gov](mailto:pfujitani@usbr.gov); Wilcox, Carl@Wildlife; Rico, Christine@Waterboards; Castleberry, Dan@fws; [Garwin.Yip@noaa.gov](mailto:Garwin.Yip@noaa.gov); Riddle, Diane@Waterboards; [RMILLIGAN@usbr.gov](mailto:RMILLIGAN@usbr.gov); Pettit, Tracy@DWR; Mizell, James@DWR; Leahigh, John@DWR; [ekiteck@usbr.gov](mailto:ekiteck@usbr.gov); [PManza@usbr.gov](mailto:PManza@usbr.gov); Hinojosa, Tracy@DWR; Rabin, [Larry@fws.gov](mailto:Larry@fws.gov); [JSandberg@usbr.gov](mailto:JSandberg@usbr.gov); Miller, Aaron@DWR; Giorgi, Bryant@DWR; Chu, Andy@DWR

**Subject:** Conserved Water Accounting For April 2015 under TUCP Order

Les--

In its April 6, 2015 Order Modifying an Order that Approved in Part and Denied in Part a Petition for Temporary Urgency Changes to License and Permit Terms and Conditions Requiring Compliance with Delta Water Quality Objectives in Response to Drought Conditions, the State Water Resources Control Board (Board) continued to require 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, as well as a record of where that water was conserved, submit such records on a monthly basis to the State Water Board within 20 working days after the first day of the following month.” In compliance with this requirement, DWR and Reclamation are presenting the attached table showing daily accounting for conserved water under the Order for the month of April.

Under D-1641, the Net Delta Outflow requirement is 7,100 cfs on a three-day average (or the equivalent salinity measured as 2.64 EC at Collinsville), plus a requirement to meet higher flows of 11,400 cfs or 29,200 cfs (or equivalent salinity at Chipps Island or Port Chicago) for a specified number of days. The April 6 Order modified this requirement to 4,000 cfs on a monthly average.

The Projects operated under the revised Order for the entire month. The amount of water that would have been required to meet the unmodified D-1641 standard for all of April was determined to be approximately 137 TAF. This amount was conserved upstream by the Projects in April. The cumulative total water conserved under the TUCP in 2015 to date is approximately 282 TAF.

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

Sincerely,

Dan

**Dan Yamanaka**

Chief, Delta Compliance & Modeling Section

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April Date	Historical Daily Outflow (cfs)	Historical 3- Day Outflow (cfs)	Daily EC at CLL	Daily EC at CHP	14-day EC at CLL	14-day EC at CHP	Carry- Over used?	TUCP in effect?					Daily Combined Exports (cfs)	Total Difference in Outflow (cfs)	Water Shortage (TAF)
								X2 (CHP)	X2 (CLL)	NDOI	DCC	EC			
4/1/2015	4110	4154	5.49	8.61	5.64	8.82			x				1537	2990	5.93
4/2/2015	4099	4107	5.55	8.24	5.67	8.82			x				1534	3001	5.95
4/3/2015	4112	4107	5.59	8.72	5.66	8.81			x				1531	2988	5.93
4/4/2015	3478	3896	6.26	9.78	5.71	8.87			x				1530	3622	7.19
4/5/2015	3529	3706	6.61	10.28	5.77	8.95			x				1533	3571	7.08
4/6/2015	4592	3866	6.48	10.12	5.83	9.03			x				1529	2508	4.98
4/7/2015	5401	4507	7.38	11.46	5.96	9.20			x				1514	1699	3.37
4/8/2015	9748	6580	6.56	9.76	6.03	9.30		x	x				1512	1652	3.28
4/9/2015	10785	8645	6.22	9.47	6.10	9.40		x					1528	615	1.22
4/10/2015	9556	10030	6.70	10.04	6.18	9.49		x					1508	1844	3.66
4/11/2015	8993	9778	6.81	10.13	6.28	9.61							1504	0	0
4/12/2015	8867	9139	6.37	9.50	6.33	9.68							1503	0	0
4/13/2015	4738	7533	6.83	9.65	6.38	9.70							1508	2362	4.68
4/14/2015	4220	5942	6.35	9.29	6.37	9.65			x				1335	2880	5.71
4/15/2015	5259	4739	5.96	8.82	6.40	9.66			x				1523	1841	3.65
4/16/2015	4960	4813	6.37	9.30	6.46	9.74			x				1524	2140	4.24
4/17/2015	3879	4700	7.20	10.59	6.58	9.87			x				1523	3221	6.39
4/18/2015	3798	4212	8.25	11.88	6.72	10.02			x				1528	3302	6.55
4/19/2015	3451	3709	9.49	13.20	6.93	10.23			x				1540	3649	7.24
4/20/2015	3319	3522	10.04	13.94	7.18	10.50			x				1542	3781	7.50
4/21/2015	3889	3553	10.47	14.36	7.40	10.71			x				1510	3211	6.37
4/22/2015	3644	3617	9.42	13.01	7.61	10.94			x				1510	3456	6.86
4/23/2015	3751	3761	9.69	13.38	7.85	11.22			x				1426	3349	6.64
4/24/2015	2821	3405	9.82	13.99	8.08	11.50			x				1329	4279	8.49
4/25/2015	2894	3155	9.30	13.17	8.25	11.72			x				1324	4206	8.34
4/26/2015	6426	4047	8.26	11.88	8.39	11.89			x				1495	674	1.34
4/27/2015	7293	5538	7.69	11.03	8.45	11.99			x				1497	0	0
4/28/2015	6736	6818	8.45	12.02	8.60	12.18			x				1537	364	0.72
4/29/2015	6060	6696	8.59	12.06	8.79	12.42			x				1545	1040	2.06
4/30/2015	6433	6409	8.63	12.02	8.95	12.61			x				1549	667	1.32

Monthly Average 5361

Total (TAF) 136.68  
Running Total (TAF) 282.33

D1641 Standards		
Chippis X2	1 Day(s)	
Carry-Over	0 Day(s)	
CLL EC	2.64 umhos/cm	14-day
NDOI (CHP)	11400 cfs	3-day
NDOI (CLL)	7100 cfs	3-day