

From: Uecker, Ian@DWR <Ian.Uecker@water.ca.gov>

Sent: Wednesday, July 28, 2021 4:08 PM

To: Ekdahl, Erik@Waterboards <Erik.Ekdahl@waterboards.ca.gov>; Riddle, Diane@Waterboards <Diane.Riddle@waterboards.ca.gov>; Holland, Matthew@Waterboards <Matthew.Holland@waterboards.ca.gov>; Foresman, Erin@Waterboards <Erin.Foresman@Waterboards.ca.gov>; Boland-Brien, Samuel@Waterboards <Samuel.Boland-Brien@waterboards.ca.gov>; Rizzardo, Jule@Waterboards <Jule.Rizzardo@waterboards.ca.gov>; Yip, Garwin <Garwin.yip@noaa.gov>; Grover, Joshua@Wildlife <Joshua.Grover@wildlife.ca.gov>; Allen, Kaylee@fws <Kaylee_allen@fws.gov>

Cc: White, Molly@DWR <Molly.White@water.ca.gov>; Hinojosa, Tracy@DWR <Tracy.Hinojosa@water.ca.gov>; Halston, Armin A <ahalston@usbr.gov>; White, Kristin N. <knwhite@usbr.gov>; Leahigh, John@DWR <John.Leahigh@water.ca.gov>; Pettit, Tracy@DWR <Tracy.Pettit@water.ca.gov>; Kiteck, E <ekiteck@usbr.gov>

Subject: Electronic Transmittal: Conserved Water Accounting for June 2021 under TUCP Order

EXTERNAL:

In its June 1, 2021 Order Conditionally Approving a Petition for Temporary Urgency Changes in 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) 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, 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 June.

Under D-1641, the minimum Delta Outflow requirement is 4,000 cfs on a monthly average. The June 1 Order changed the minimum Delta outflow requirement (as measured by the Net Delta Outflow Index - NDOI) to 3,000 cfs on a monthly average during July, but no less than 2,000 cfs on a 7-day running average. The Order also extended through August 15 the change to the Western Delta agricultural objective compliance point from Emmaton to Three Mile Slough. Water Quality modeling indicates that even after increasing NDOI to meet the 4,000 cfs requirement, a significant amount of water would still have been necessary to meet the Emmaton 14-day EC objective.

The Projects operated under the Order for the entire month. The amount of water that would have been required to meet the unmodified D-1641 standards for all of June was determined to be approximately 144 TAF. This amount was conserved upstream by the Projects in June and it has been determined that the water conserved would have come from Shasta storage.

If you have any questions or would like more information, please contact me at (916) 574-2991.

Ian Uecker, PE

Manager, Delta Compliance and Modeling Section
State Water Project Operations Control Office
3310 El Camino Ave, Suite 300
Sacramento, CA 95821
(916) 574-2991 (Desk) | (916)-848-1804 (Cell)

June Date	Historical Daily Outflow (cfs)	Historical 14-Day Outflow (cfs)	TUCP in effect?	Daily Combined Exports	Historical Emmaton (14 day EC)	Modeled Emmaton (14 Day EC)	Additional Outflow Needed (cfs)	Water Shortage (TAF)
6/1/2021	3205	5175	x	1099	2382	2381	500	0.99
6/2/2021	2363	4948	x	1088	2448	2389	500	0.99
6/3/2021	2309	4725	x	1087	2549	2396	900	1.78
6/4/2021	2225	4438	x	1087	2691	2382	900	1.78
6/5/2021	2331	4193	x	1100	2829	2357	900	1.78
6/6/2021	2909	3995	x	1090	2984	2357	1700	3.37
6/7/2021	2564	3746	x	1101	3174	2373	1700	3.37
6/8/2021	2632	3499	x	1096	3344	2333	1700	3.37
6/9/2021	3173	3308	x	1089	3470	2257	1700	3.37
6/10/2021	3392	3168	x	985	3544	2181	1700	3.37
6/11/2021	4261	3123	x	840	3580	2085	1000	1.98
6/12/2021	3915	3072	x	846	3600	2047	1000	1.98
6/13/2021	3907	3064	x	848	3670	2047	1000	1.98
6/14/2021	3675	3062	x	849	3702	2009	2000	3.97
6/15/2021	3566	3087	x	849	3697	1878	2000	3.97
6/16/2021	3538	3171	x	841	3651	1759	2000	3.97
6/17/2021	3500	3256	x	776	3636	1701	3000	5.95
6/18/2021	3007	3312	x	836	3653	1706	3000	5.95
6/19/2021	2938	3356	x	898	3713	1709	3000	5.95
6/20/2021	3054	3366	x	902	3779	1703	3000	5.95
6/21/2021	3474	3431	x	907	3843	1728	3000	5.95
6/22/2021	3290	3478	x	902	3931	1857	3000	5.95
6/23/2021	3655	3512	x	900	4064	2005	3500	6.94
6/24/2021	3682	3533	x	896	4231	2160	3500	6.94
6/25/2021	3583	3485	x	898	4428	2328	3500	6.94
6/26/2021	3534	3457	x	898	4629	2418	4000	7.93
6/27/2021	3825	3452	x	901	4792	2470	4000	7.93
6/28/2021	3481	3438	x	810	5004	2600	4000	7.93
6/29/2021	3300	3419	x	806	5178	2712	5500	10.91
6/30/2021	2823	3368	x	900	5326	2773	5500	10.91

Total (TAF) 144.16

D1641 Standards	
NDOI	4000 cfs
Emmaton	2.78 umhos/cm