

DWR

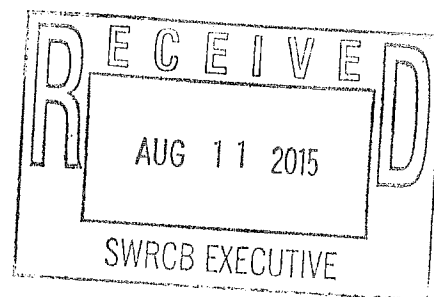


DEPARTMENT OF WATER RESOURCES
Division of Operations and Maintenance
3310 El Camino Avenue, Suite 300
Sacramento, California 95821



BUREAU OF RECLAMATION
Central Valley Operations Office
3310 El Camino Avenue, Suite 300
Sacramento, California 95821

AUG 06 2015



Thomas Howard
Executive Director
State Water Resources Control Board
1001 I Street
Sacramento, California 95814

Report of Exceedance of Western Delta Agricultural Objectives: Three Mile Slough and Jersey Point

Dear Mr. Howard:

This letter serves as notification from the Department of Water Resources and the U.S. Bureau of Reclamation (collectively referred to as the Projects) that two D-1641 western Delta agricultural objectives were recently exceeded:

Compliance Location	Description	Compliance Value (mS/cm)	Exceedance Value (mS/cm)	Date of Exceedance	Date Returned to Compliance	No. of Days Out Of Compliance
Sacramento River at Three Mile Slough ¹	Maximum 14-day running average of mean daily EC	2.78	2.85	July 7	July 22	15
San Joaquin River at Jersey Point	Maximum 14-day running average of mean daily EC	2.20	2.23	July 9	July 17	8

¹Compliance location modified from Emmaton to Three Mile Slough under State Water Resources Control Board's (Board) April 6, 2015, Order and extended through August 15 under Board's July 3, 2015, Order.

Figure 1 below shows forecasted and actual high and mean half tide elevations at Antioch. In the two weeks leading up to the exceedances, the actual mean half tide elevation increased 0.9 of a foot, which equates to approximately 55,000 acre-feet (or approximately 2,300 cfs over the course of the 12 days) of additional ocean water filling the western Delta. This higher-than-projected tide elevation, exacerbated by the strong westerly Delta breeze and low barometric pressure, significantly reduced the effectiveness of the Delta outflow in maintaining the salinity balance.

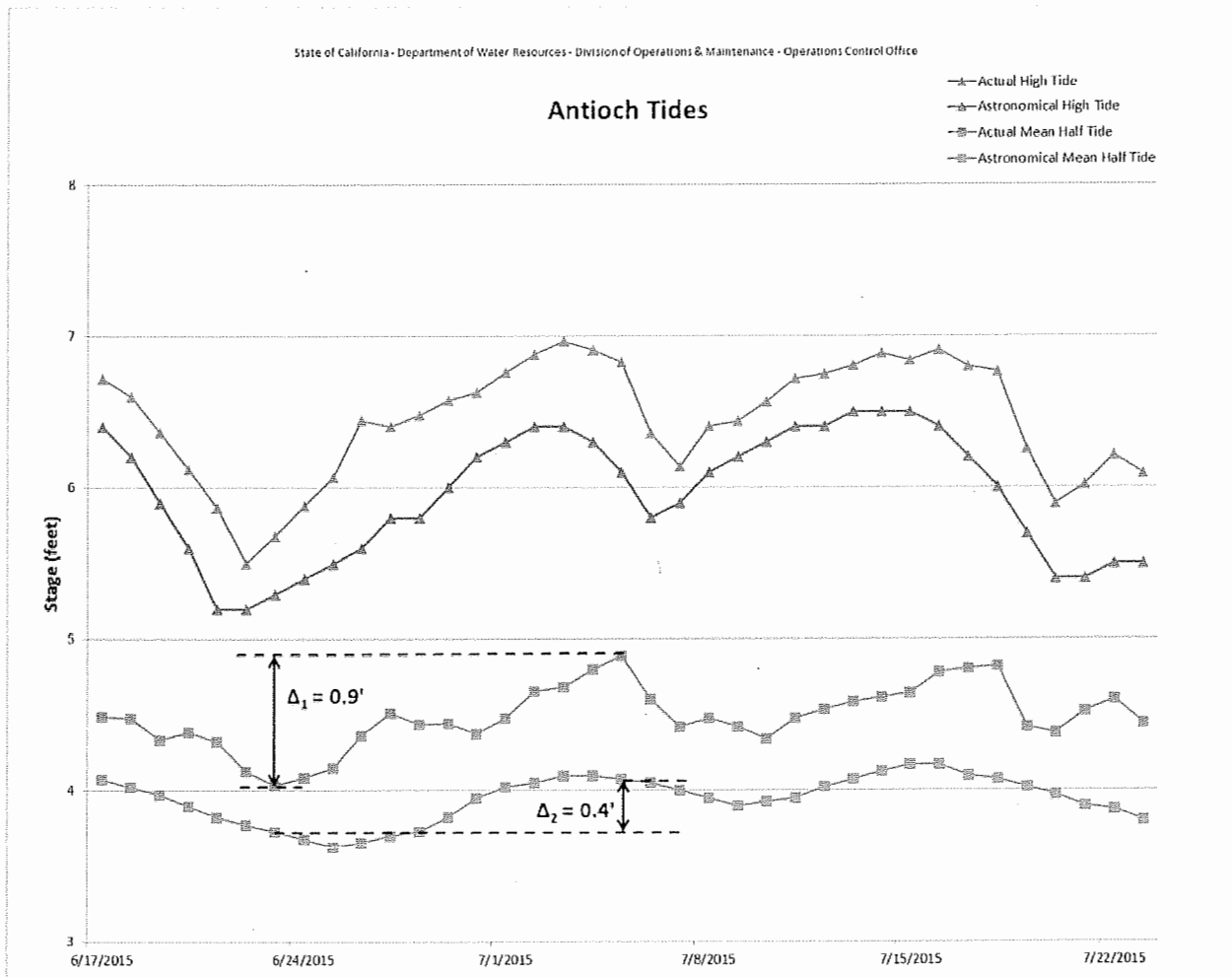


Figure 1

Normally, the Projects would have significantly increased upstream releases or dropped exports to quickly increase the Net Delta Outflow Index (NDOI) and better manage Delta salinity, but this year's operational tools are limited. Exports are already extremely low, and the magnitude of upstream reservoir releases has been limited due to concerns about carryover storage at Folsom Reservoir and Oroville Reservoir, and the unavailability of additional water from Shasta Reservoir due to implementation of the Sacramento River Temperature Plan. In spite of these limitations, the Projects took actions to mitigate the extent of the exceedances. The Projects increased upstream releases by 500 cfs and reduced exports by 150 cfs to produce a higher NDOI. The Projects also strategically closed the Delta Cross Channel (DCC) gates to avoid a greater exceedance at Three Mile Slough on the Sacramento River side of the Delta.

Conditions in the western Delta have since improved. Figure 2 and the attached table show the 14-day EC values prior to and through the exceedance period.

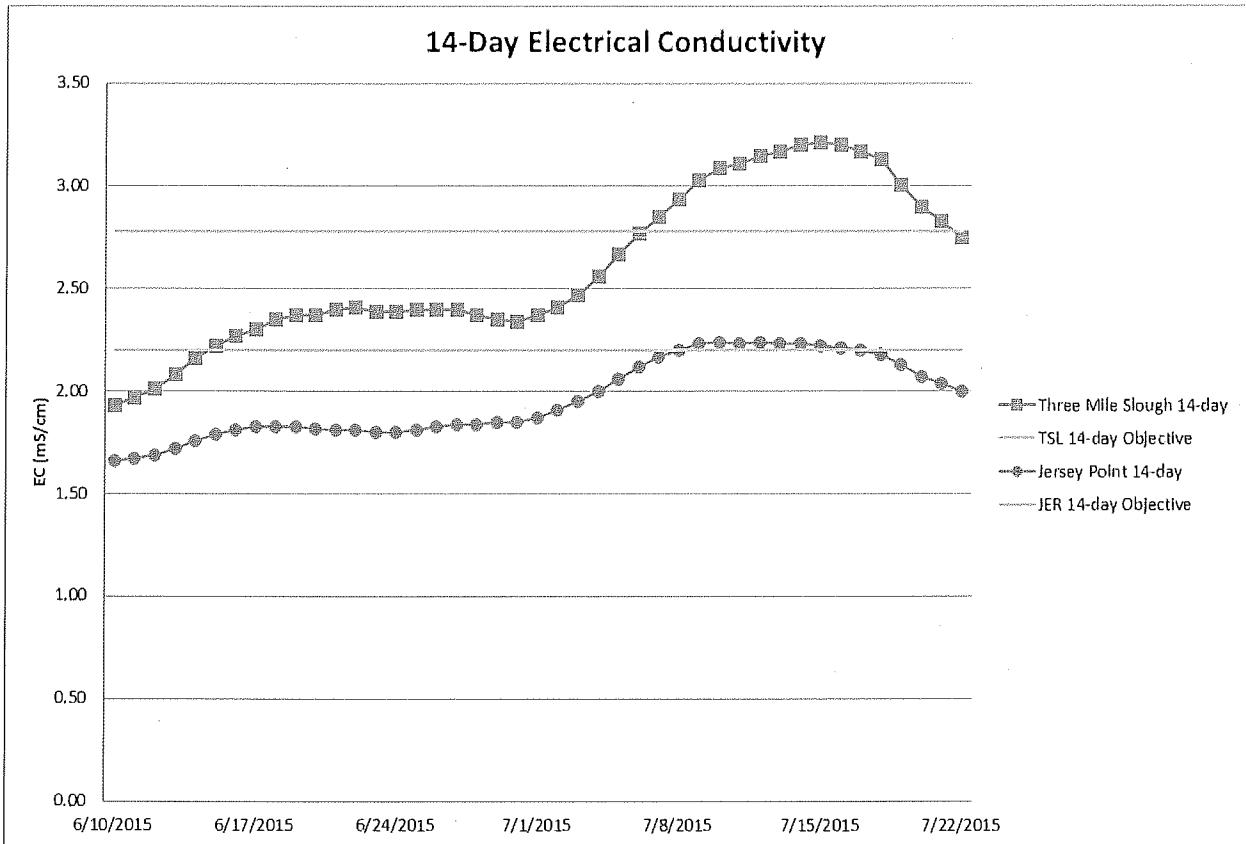
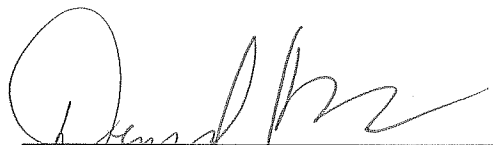



Figure 2

If you have any questions or would like more information regarding this notification, please contact Mr. John Leahigh of DWR at (916) 574-2722 or Mr. Paul Fujitani of Reclamation at (916) 979-2197.

Sincerely,


David H. Roose, Chief
SWP Operations Control Office
Department of Water Resources


Ronald Milligan, Operations Manager
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Attachment

cc: Michael George, Delta Watermaster
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Attachment 1 Western Delta Water Quality Conditions*

Date	Emmaton		Three Mile Slough		Jersey Point	
	Daily	14-day	Daily	14-day	Daily	14-day
6/10/2015	2.96	3.34	1.91	1.93	1.59	1.66
6/11/2015	2.95	3.40	1.77	1.97	1.48	1.67
6/12/2015	3.34	3.47	2.11	2.01	1.68	1.69
6/13/2015	4.06	3.55	2.44	2.08	1.98	1.72
6/14/2015	4.85	3.66	2.91	2.16	2.22	1.76
6/15/2015	4.85	3.76	2.83	2.22	2.08	1.79
6/16/2015	4.48	3.83	2.68	2.27	1.94	1.81
6/17/2015	4.36	3.89	2.55	2.30	1.93	1.83
6/18/2015	4.47	3.97	2.67	2.35	1.78	1.83
6/19/2015	4.28	3.99	2.51	2.37	1.85	1.83
6/20/2015	4.05	3.97	2.45	2.37	1.77	1.82
6/21/2015	4.30	4.00	2.53	2.40	1.78	1.81
6/22/2015	3.60	4.01	2.18	2.41	1.62	1.81
6/23/2015	3.30	3.99	1.95	2.39	1.53	1.80
6/24/2015	3.17	4.00	1.93	2.39	1.55	1.80
6/25/2015	3.06	4.01	1.86	2.40	1.67	1.81
6/26/2015	3.70	4.04	2.04	2.40	1.89	1.83
6/27/2015	4.14	4.04	2.55	2.40	2.21	1.84
6/28/2015	4.31	4.00	2.47	2.37	2.17	1.84
6/29/2015	4.50	3.98	2.57	2.35	2.16	1.85
6/30/2015	4.43	3.98	2.58	2.34	1.99	1.85
7/1/2015	4.81	4.01	2.87	2.37	2.16	1.87
7/2/2015	5.22	4.06	3.19	2.41	2.35	1.91
7/3/2015	5.74	4.17	3.45	2.47	2.42	1.95
7/4/2015	5.98	4.30	3.63	2.56	2.55	2.00
7/5/2015	6.48	4.46	4.10	2.67	2.62	2.06
7/6/2015	5.77	4.62	3.61	2.77	2.42	2.12
7/7/2015	5.10	4.74	3.11	2.85	2.16	2.17
7/8/2015	5.18	4.89	3.21	2.94	2.10	2.20
7/9/2015	5.02	5.03	3.11	3.03	2.09	2.23
7/10/2015	4.66	5.10	2.77	3.09	1.98	2.24
7/11/2015	4.83	5.15	2.88	3.11	2.08	2.23
7/12/2015	5.20	5.21	3.00	3.15	2.30	2.24
7/13/2015	4.81	5.23	2.93	3.17	2.01	2.23
7/14/2015	5.01	5.27	2.94	3.20	1.97	2.23
7/15/2015	4.84	5.27	2.99	3.21	2.06	2.22

* Salinity reported as electrical conductivity in milliSiemens per centimeter (mS/cm).

Daily	14-day	Daily average and 14-day running average electrical conductivity
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Attachment 1 (continued) Western Delta Water Quality Conditions*

Date	Emmaton		Three Mile Slough		Jersey Point	
	Daily	14-day	Daily	14-day	Daily	14-day
7/16/2015	5.21	5.27	3.10	3.20	2.18	2.21
7/17/2015	5.32	5.24	3.06	3.17	2.28	2.20
7/18/2015	5.34	5.20	3.03	3.13	2.28	2.18
7/19/2015	4.11	5.03	2.38	3.01	1.90	2.13
7/20/2015	3.75	4.88	2.14	2.90	1.59	2.07
7/21/2015	3.73	4.79	2.11	2.83	1.70	2.04
7/22/2015	3.54	4.67	2.13	2.75	1.62	2.00

* Salinity reported as electrical conductivity in milliSiemens per centimeter (mS/cm).

Daily	14-day	Daily average and 14-day running average electrical conductivity
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