



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

JAN 16 2019

Eileen Sobeck
Executive Director
State Water Resources Control Board
1001 I Street
Sacramento, California 95814

Subject: Report of Exceedance of South Delta Water Quality Agricultural Objective at
Old River near Tracy Road Bridge

Dear Ms. Sobeck:

Pursuant to Condition A.10 of the State Water Resources Control Board's (SWRCB) Order 2010-0002 (Order) to the Department of Water Resources (DWR) and the United States Bureau of Reclamation (Reclamation), DWR and Reclamation notify SWRCB of the exceedance of the 30-day average Electrical Conductivity (EC) at the Old River at Tracy Road Bridge compliance location (Station P-12). On January 1, 2019, the EC at Station P-12 was 1.1 millisiemens per centimeter (mS/cm), which exceeds SWRCB's Water Rights Decision 1641 (D-1641) objective of 1.0 mS/cm. The attached table (Attachment 1) shows daily and 30-day average EC values leading up to the date of exceedance, which is determined by rounding the 30-day average values to the nearest one-tenth EC value.

On that exceedance date, the 30-day average EC values at Old River near Middle River (Station C-8), San Joaquin River at Brandt Bridge (Station C-6), and Vernalis (Station C-10) were 0.9 mS/cm, 0.8 mS/cm, and 0.9 mS/cm, respectively. Figure 1 is a map of the four south Delta compliance locations, as well as the export locations, and the corresponding 30-day average EC values on the date of the exceedance at Station P12.

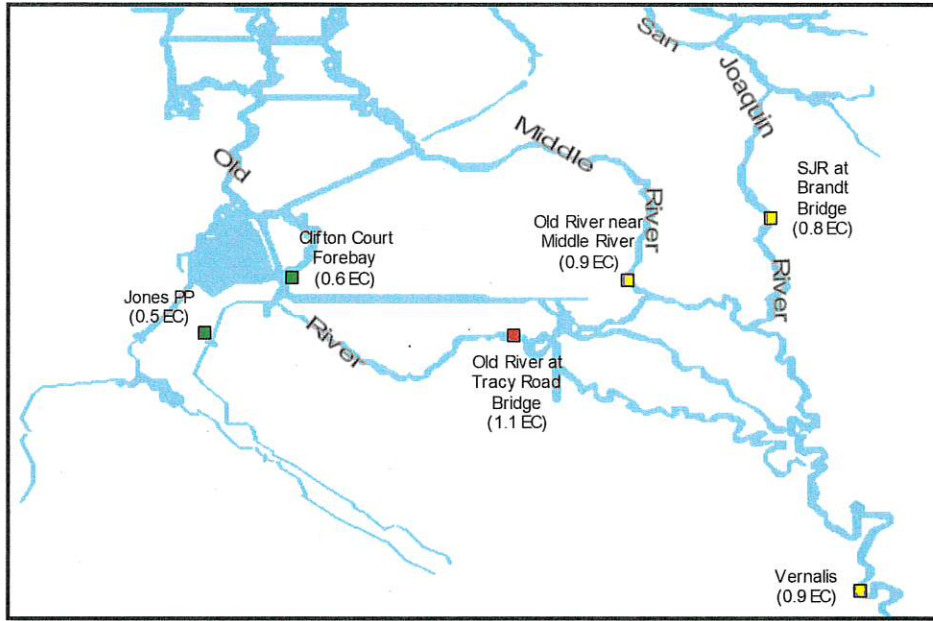


Figure 1: Map of South Delta Compliance Locations and 30-day Average EC on January 1, 2019

DWR and Reclamation maintain the position that exceedances at Station P-12 are not a direct result of project operations, but rather localized degradation. The water quality at the other South Delta compliance locations has maintained a fair level of consistency. As with prior exceedances at Station P-12, the water quality at this location is disproportionately high. A potential cause of this exceedance could be the movement of highly saline water in the vicinity of Paradise Cut and Sugar Cut as seen in Figures 2 and 3 below.

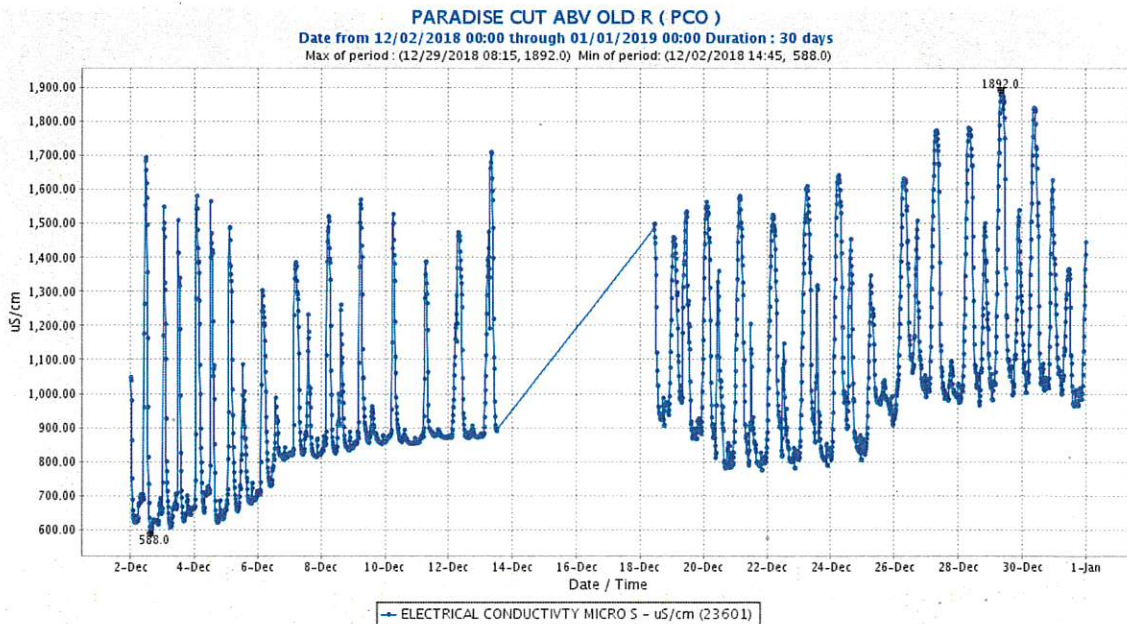


Figure 2: EC Data at Paradise Cut for December 2, 2018 – January 1, 2019

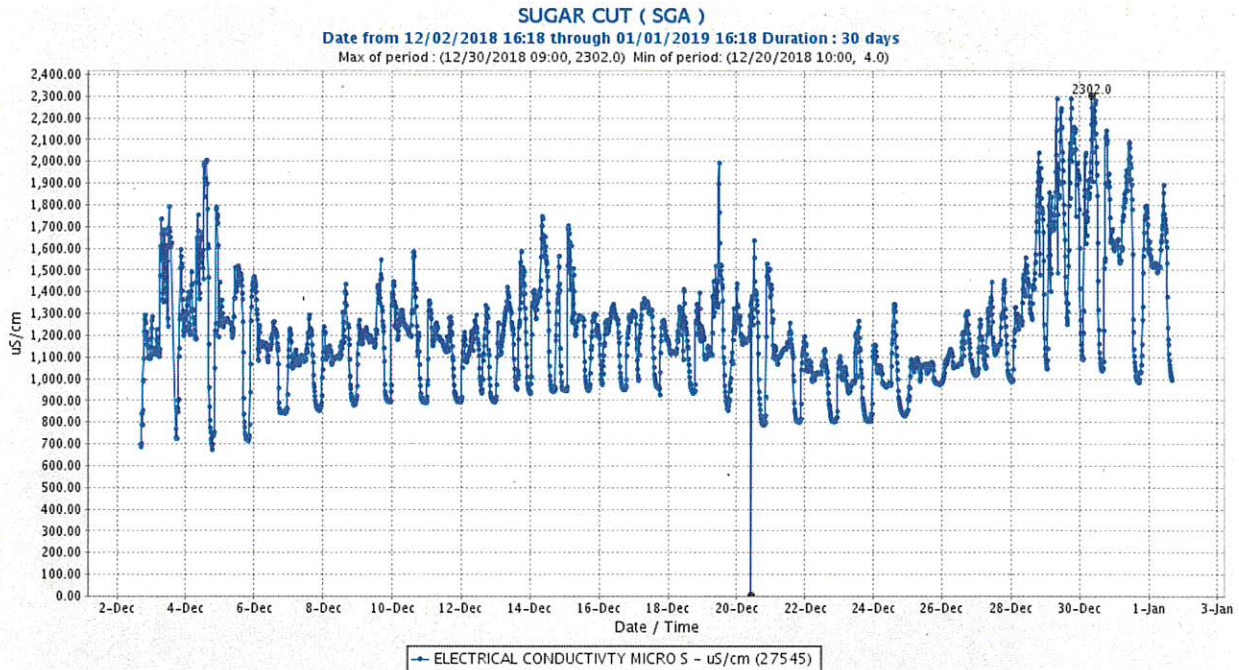


Figure 3: EC Data at Sugar Cut for December 2, 2018 – January 1, 2019

Notwithstanding the localized degradation, DWR and Reclamation will continue to undertake all practicable measures to assist in improving water quality in the south Delta in coordination with the South Delta Water Agency.

If you have any questions regarding this notification, please contact Ms. Molly White of DWR at (916) 574-2722 or Ms. Elizabeth Kiteck of Reclamation at (916) 979-2684.

Sincerely,

Attilio Zasso, Acting Chief
Assistant Division Chief 2
Division of Operations and Maintenance
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Attachment

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Attachment 1 South Delta Water Quality Conditions*

Date	Vernalis		SJR at Brandt Bridge		Old River at Tracy Road Bridge		Old River Near Middle River	
	VERec	VER30ec	BDTec	BDT30ec	OLDec	OLD30ec	UN1ec	UNI30ec
01-Dec-18	0.59	0.58	0.72	0.54	0.87	0.69	0.61	0.56
02-Dec-18	0.62	0.59	0.68	0.55	0.89	0.71	0.54	0.57
03-Dec-18	0.66	0.61	0.61	0.56	0.85	0.72	0.60	0.58
04-Dec-18	0.77	0.62	0.59	0.57	0.94	0.73	0.61	0.59
05-Dec-18	0.84	0.64	0.60	0.59	0.94	0.74	0.72	0.61
06-Dec-18	0.85	0.66	0.60	0.60	0.86	0.76	0.82	0.63
07-Dec-18	0.87	0.68	0.61	0.61	0.89	0.77	0.82	0.64
08-Dec-18	0.87	0.69	0.65	0.62	0.94	0.78	0.85	0.66
09-Dec-18	0.86	0.70	0.69	0.63	0.99	0.80	0.86	0.67
10-Dec-18	0.86	0.71	0.71	0.64	1.00	0.82	0.87	0.68
11-Dec-18	0.87	0.73	0.73	0.65	1.03	0.83	0.86	0.70
12-Dec-18	0.88	0.74	0.79	0.66	1.01	0.85	0.87	0.71
13-Dec-18	0.90	0.75	0.84	0.67	1.03	0.86	0.88	0.72
14-Dec-18	0.92	0.76	0.85	0.68	1.06	0.88	0.89	0.73
15-Dec-18	0.91	0.76	0.86	0.69	1.12	0.89	0.91	0.74
16-Dec-18	0.91	0.77	0.87	0.70	1.12	0.91	0.92	0.75
17-Dec-18	0.87	0.78	0.87	0.71	1.10	0.92	0.90	0.76
18-Dec-18	0.75	0.78	0.88	0.72	1.12	0.93	0.89	0.77
19-Dec-18	0.76	0.78	0.89	0.72	1.09	0.94	0.81	0.77
20-Dec-18	0.78	0.78	0.88	0.73	1.09	0.95	0.75	0.77
21-Dec-18	0.79	0.78	0.86	0.74	1.01	0.96	0.79	0.77
22-Dec-18	0.82	0.79	0.85	0.74	0.97	0.96	0.80	0.77
23-Dec-18	0.99	0.80	0.84	0.75	0.95	0.97	0.80	0.78
24-Dec-18	1.02	0.81	0.82	0.75	0.97	0.97	0.87	0.78
25-Dec-18	0.98	0.82	0.81	0.75	1.00	0.98	0.98	0.79
26-Dec-18	0.96	0.82	0.81	0.76	1.00	0.98	1.00	0.80
27-Dec-18	0.97	0.83	0.84	0.76	1.10	0.99	0.98	0.81
28-Dec-18	0.96	0.84	0.90	0.77	1.10	0.99	0.97	0.82
29-Dec-18	0.94	0.85	0.93	0.78	1.18	1.00	0.98	0.83
30-Dec-18	0.93	0.86	0.94	0.78	1.32	1.02	0.96	0.84
31-Dec-18	0.95	0.87	0.92	0.79	1.38	1.03	0.95	0.85
01-Jan-19	0.94	0.88	0.95	0.80	1.25	1.05	0.95	0.86

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

XXXec	XXX30ec	Daily average and 30-day running average electrical conductivity
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Subject: Report of Exceedance of South Delta Water Quality Agricultural Objective 6

bcc: DWR (JLeahigh, MWhite, THinojosa, TPettit, DYamanaka, TSmith, MHolderman,
JMcQuirk, TMizell, AFock)

USBR (JRieker, EKiteck, TPatton)