

SWP Water Quality Summary

August 5 to September 6, 2010

Electrical Conductivity: EC increased at all locations. Concentrations ranged from 176 $\mu\text{S}/\text{cm}$ to 449 $\mu\text{S}/\text{cm}$ (106 mg/L to 269 mg/L), which is below the Article 19 Monthly Average Objective of 440 mg/L (733 $\mu\text{S}/\text{cm}$). The highest concentration of 449 $\mu\text{S}/\text{cm}$ (269 mg/L) occurred at HBP, while the lowest concentration of 241 $\mu\text{S}/\text{cm}$ (145 mg/L) occurred at Barker Slough. The 33-day average concentration at HBP was 314 $\mu\text{S}/\text{cm}$ (188 mg/L).

Bromide*: Concentrations exceeded the California Bay-Delta Authority (CBDA) Objective of 0.05 mg/L at all locations, except at Barker Slough on August 5, 2010. Concentrations ranged from 0.04 mg/L to 0.20 mg/L. HBP had the highest concentration of 0.20 mg/L, while the lowest concentration of 0.07 mg/L occurred at Barker Slough.

* Bromide concentrations are calculated values using linear regression equations using EC concentrations and are not as accurate as bromide concentrations from laboratory analysis.

Turbidity: Turbidity levels decreased at HBP, Barker Slough and Vallecitos, but increased at Check 41. Turbidity ranged from 3.8 NTU to 57.1 NTU this month. The lowest level of 4.9 NTU occurred at Check 29, while the highest level of 48.2 NTU occurred at Barker Slough. The 33-day average turbidity level at HBP was 11.4 NTU with a 19% change.

Dissolved Organic Carbon (DOC): Concentrations increased at HBP, but decreased at Check 13 and Edmonston. DOC 33-day average concentrations were 2.3 mg/L at HBP, 2.3 mg/L at Check 13 and 3.0 mg/L at Edmonston. HBP had the lowest change in concentration at -8%.

Taste and Odor Compounds: MIB and geosmin concentrations in the SWP ranged from non-detect to 10 ng/L at Clifton Court Inlet, HBP, South Bay Aqueduct at Del Valle Check 7 and O'Neill Forebay Outlet (Check 13).

Groundwater pump-ins to the California Aqueduct totaled 11,774AF. The break down of the total volume was:

- Arvin Edison Water Storage District = 1 AF
- Kern Water Bank Authority (operates the Kern Water Bank Canal) = 27 AF
- Semitropic (2&3) Water Storage District = 11,746AF

As of September 6, 2010, no data was available for Devil Canyon due to maintenance driven station shut down.

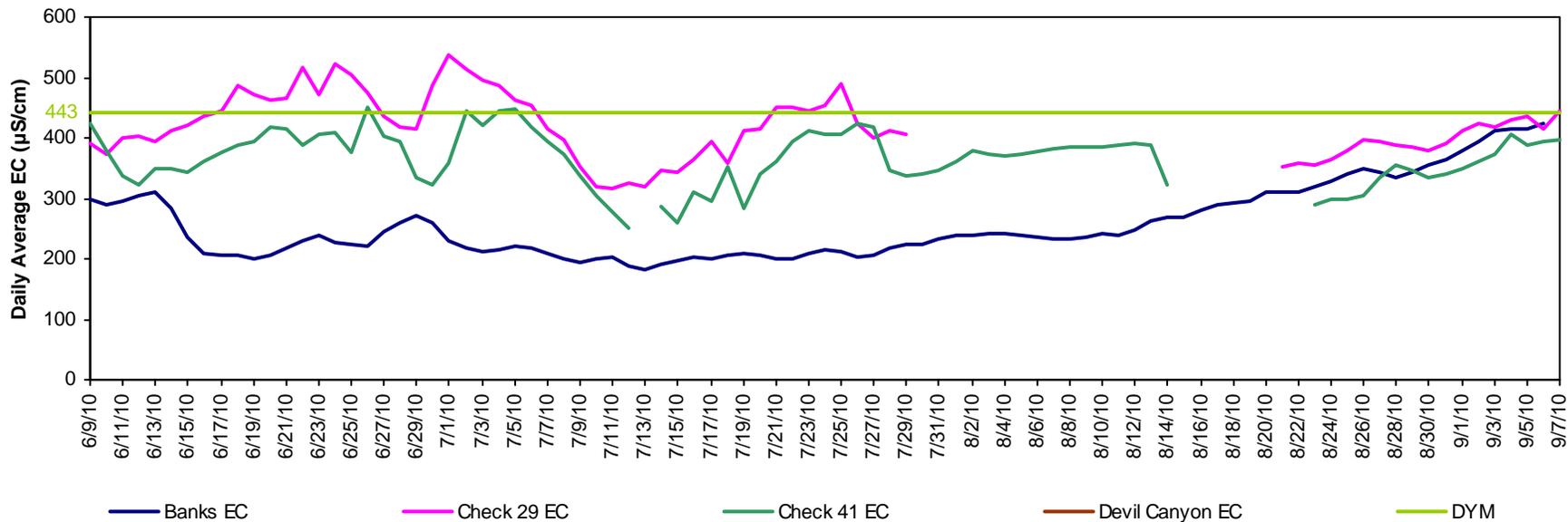
Note:

The intent of the monthly water quality (WQ) summary is to acquaint state water contractors, scientists and interested parties with the status of water quality in the State Water Project (SWP). Your comments, questions and suggestions are welcome and should be directed to Cindy Garcia at 916-653-7213, or Austine Eke at 916-653-7227. To view WQ data from the automated stations along the SWP, visit:

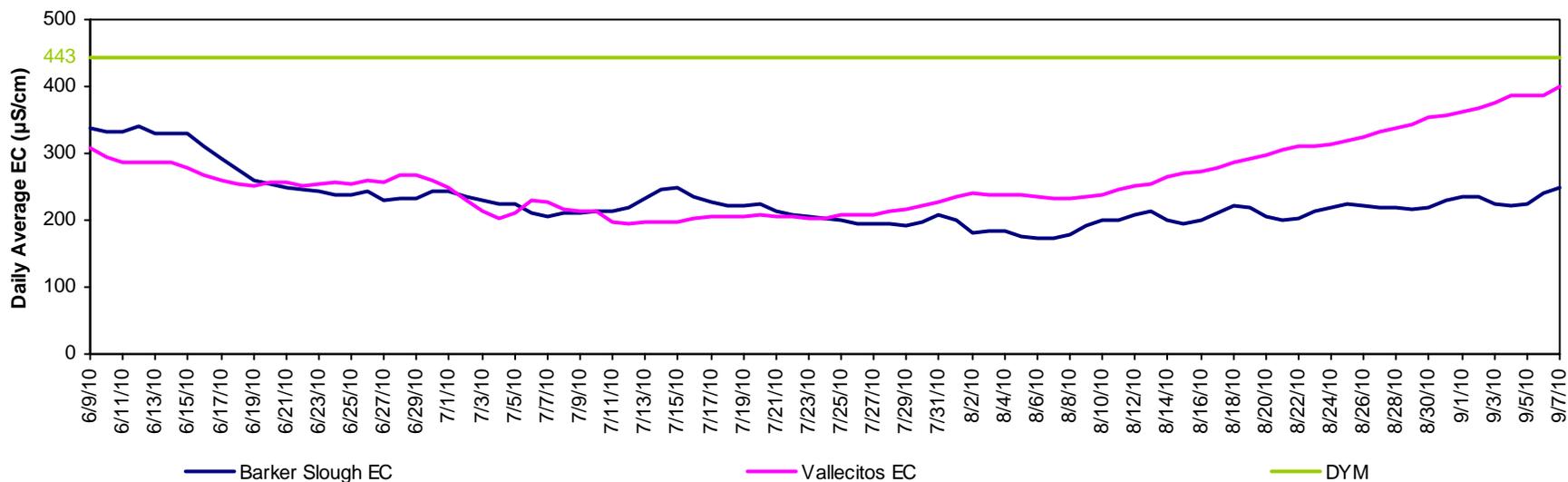
http://www.water.ca.gov/swp/waterquality/AutostationData/Autostation_map.cfm, and click on a station name on the map to link to the station's data on the California Data Exchange Center (CDEC) website.

To view the Edmonston daily AF pumping data, visit: www.water.ca.gov. Click on the "State Water Project" tab, and click on the "Operations Control" link. Look under the "Project-Wide Operations" header for the "Dispatcher's Daily Water Report."

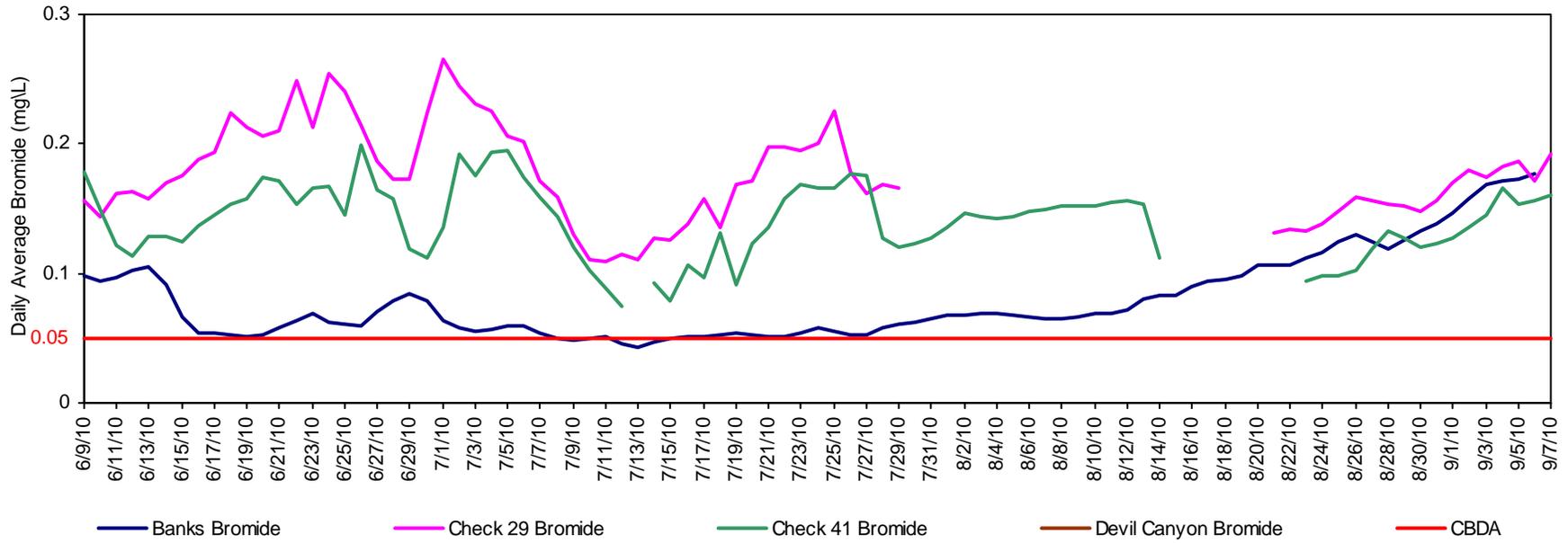
California Aqueduct - Electrical Conductivity



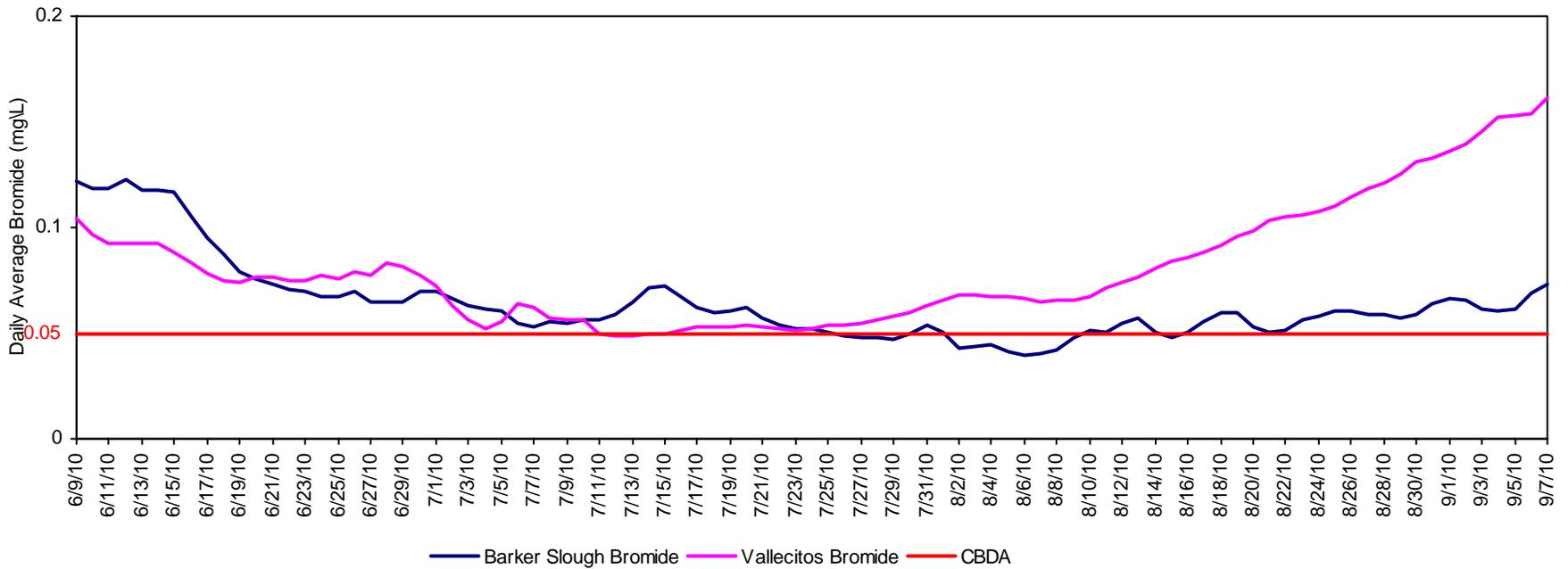
North and South Bay Aqueduct - Electrical Conductivity



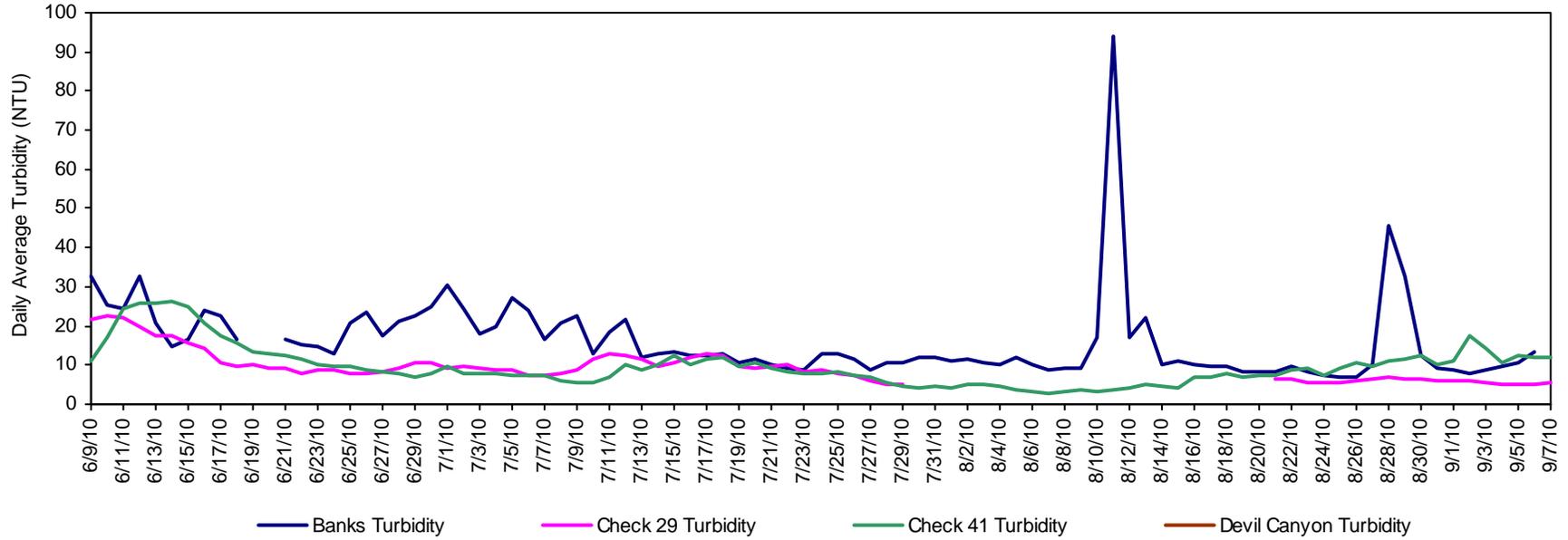
California Aqueduct - Calculated Bromide



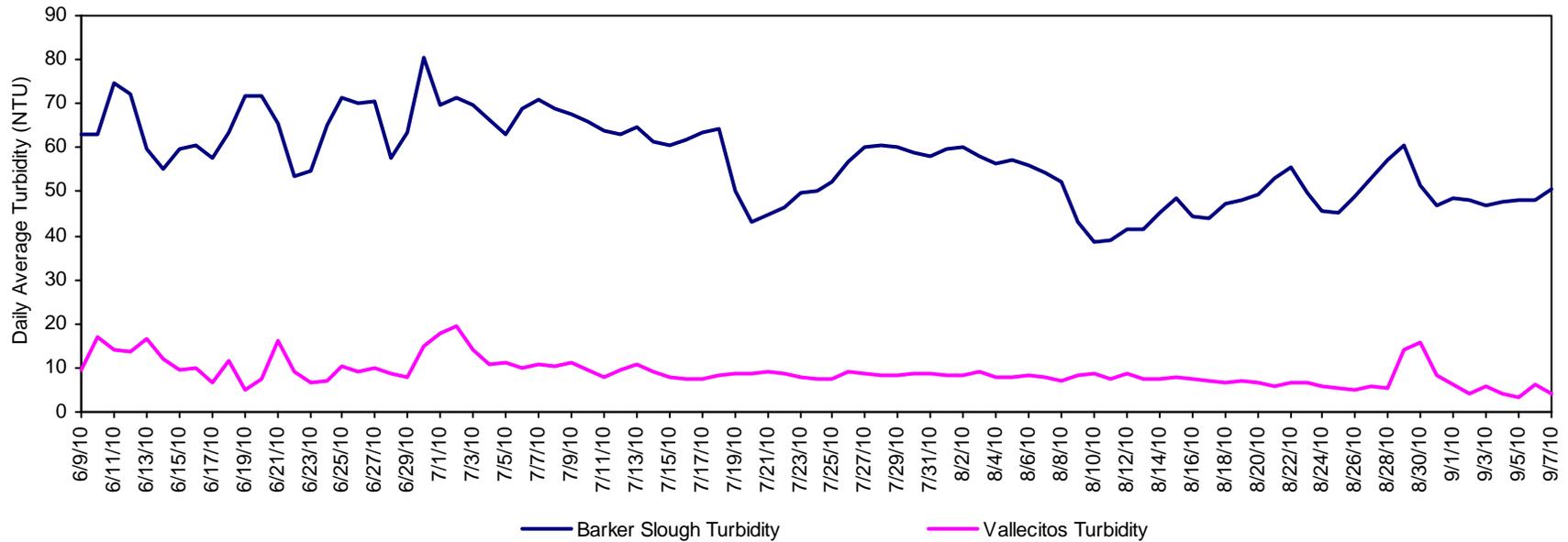
North and South Bay Aqueduct - Calculated Bromide



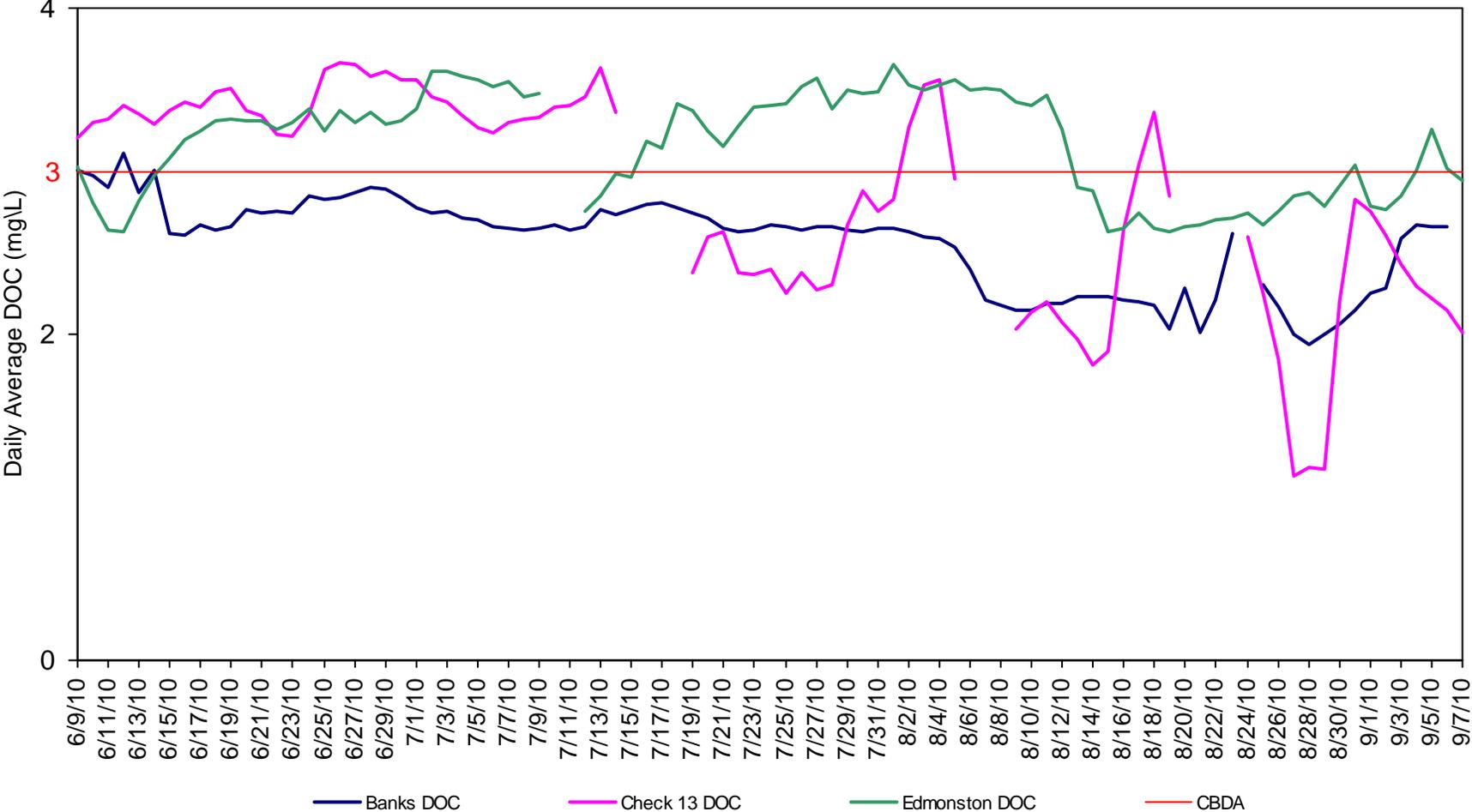
California Aqueduct - Turbidity



North and South Bay Aqueduct - Turbidity



California Aqueduct Calculated Dissolved Organic Carbon



SWP Water Quality Report

DWR Operations & Maintenance Water Quality Automated Station Data from August 5 to September 6, 2010

Automated sampling stations provide real time data by continuously measuring water quality conditions in the California Aqueduct.

Water Quality Parameters	Objective	Range	Harvey O. Banks PP KA000331	Check 29 KA024454	Check 41 KA030341	Devil Canyon KA041288	NBA at Barker Slough KG000000	Vallecitos KB002250	Check 13 O'Neill Forebay Outlet KA007089	Edmonston PP Milepost 293.45	
EC ($\mu\text{S}/\text{cm}$)	733**	8/05/2010	239	No Data	373	No Data	176	237			
		9/06/2010	449	415	393	No Data	241	389			
		% change	-89	No Data	-5	No Data	-37	-64			
		33-day Avg	314	No Data	358	No Data	210	303			
Bromide (mg/L)	0.05*	8/05/2010	0.07	No Data	0.14	No Data	0.04	0.07			
		9/06/2010	0.20	0.17	0.16	No Data	0.07	0.15			
		% change	-186	No Data	-14	No Data	-75	-114			
		33-day Avg	0.11	No Data	0.13	No Data	0.06	0.10			
Turbidity (NTU)		8/05/2010	11.9	No Data	3.8	No Data	57.1	7.7			
		9/06/2010	9.6	4.9	11.9	No Data	48.2	6.2			
		% change	19	No Data	-213	No Data	16	19			
		33-day Avg	11.4	No Data	8.0	No Data	49	7.2			
DOC (mg/L)	3.0*	8/05/2010	2.5						3.0	3.6	
		9/06/2010	2.7						2.1	3.0	
		% change	-8							30	17
		33-day Avg	2.3							2.3	3.0
Taste & Odor Parameters	Range	Clifton Court KA000000	Harvey O. Banks PP KA000331	Lake Del Valle, Check 7 KB001632	Check 13 O'Neill Forebay Outlet KA007089	Check 41 KA030341	Check 66 KA040341	Castaic Lake	Lake Perris	Silverwood Lake	
		8/5/2010	4 - 8	8 - 10	7 - 8	5 - 6	2 - 6	No	No	4 - 7	5 - 5
Geosmin (ng/L)	8/30/2010	7 - 8	7 - 7	5 - 9	4 - 4	1 - 3	data	data	5 - ND	6 - 4	

*CBDA Objective; **Article 19 Monthly Average (converted from 440 mg/L to 733 $\mu\text{S}/\text{cm}$); ND = Non-detect. T & O data from 8/05 to 8/30.