

SWP Weekly Water Quality Summary

September 29 to October 5, 2010

Electrical Conductivity (EC): EC concentrations decreased at Harvey O. Banks Pumping Plant (HBP) and Vallecitos, but increased at Check 29, Check 41 and Barker Slough. All EC concentrations were below the Article 19 Monthly Average Objective of 733 $\mu\text{S}/\text{cm}$ (440 mg/L). Concentrations ranged from 261 to 590 $\mu\text{S}/\text{cm}$ (157 to 354 mg/L). At the end of the week, the lowest concentration of 283 $\mu\text{S}/\text{cm}$ (170 mg/L) occurred at Barker Slough, and the highest concentration of 590 $\mu\text{S}/\text{cm}$ (354 mg/L) occurred at Check 29. EC decreased at HBP from 537 $\mu\text{S}/\text{cm}$ to 500 $\mu\text{S}/\text{cm}$ (322 to 300 mg/L).

Bromide*: Concentrations exceeded the California Bay-Delta Authority Objective of 0.05 mg/L at all the stations. At the end of the week, Barker Slough had the lowest concentration of 0.09 mg/L, while the highest concentration of 0.31 mg/L occurred at Check 29.

* 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 increased at HBP and Vallecitos, but decreased at Check 29, Check 41 and Barker Slough and ranged from 4.5 NTU to 37.1 NTU. At the end of the week, the lowest level of 4.5 NTU occurred at Check 29, while the highest level of 35.5 NTU occurred at Barker Slough. Turbidity levels at HBP increased from 7.3 NTU to 10.4 NTU.

Dissolved Organic Carbon (DOC): Concentrations increased from 2.1 mg/L to 2.3 mg/L at HBP and from 2.9 to 5.2 mg/L at Edmonston Pumping Plant, but decreased from 1.8 mg/L to 1.6 mg/L at Check 13.

Taste and Odor Compounds: MIB and geosmin concentrations in the SWP ranged from ND to 13 $\mu\text{g}/\text{L}$ at HBP, Clifton Court Inlet, Del Valle Check 7, O'Neill Outlet and Check 41.

Groundwater pump-ins to the California Aqueduct totaled 1,972 AF. The breakdown of the total volume was:

- Arvin Edison = 1 AF
- Semitropic (2&3) Water Storage District = 1,971 AF

During the week, no data were available for Devil Canyon due to malfunctioning instruments.

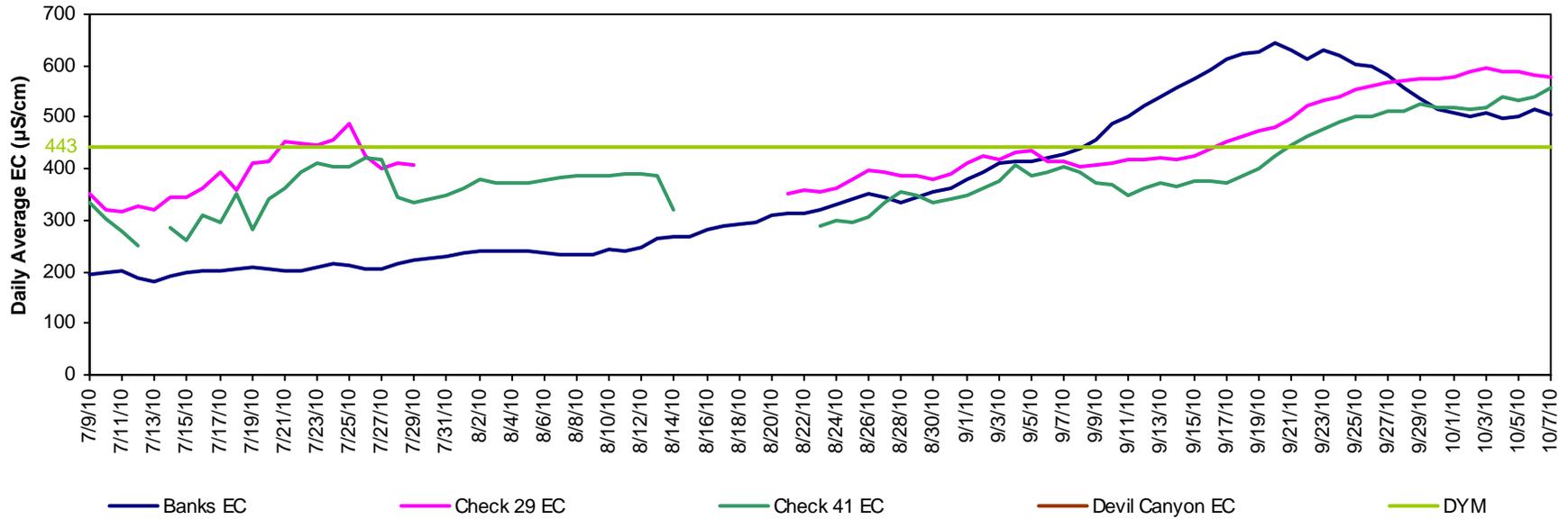
The intent of the weekly water quality (WQ) summary is to acquaint contractors, scientists and interested parties with the status of water quality in the State Water Project (SWP). You can direct your comments, questions and suggestions to Cindy Garcia @ 916-653-7213 or Austine Eke @ 916-653-7227. To view WQ data from the automated stations

along the SWP, visit:

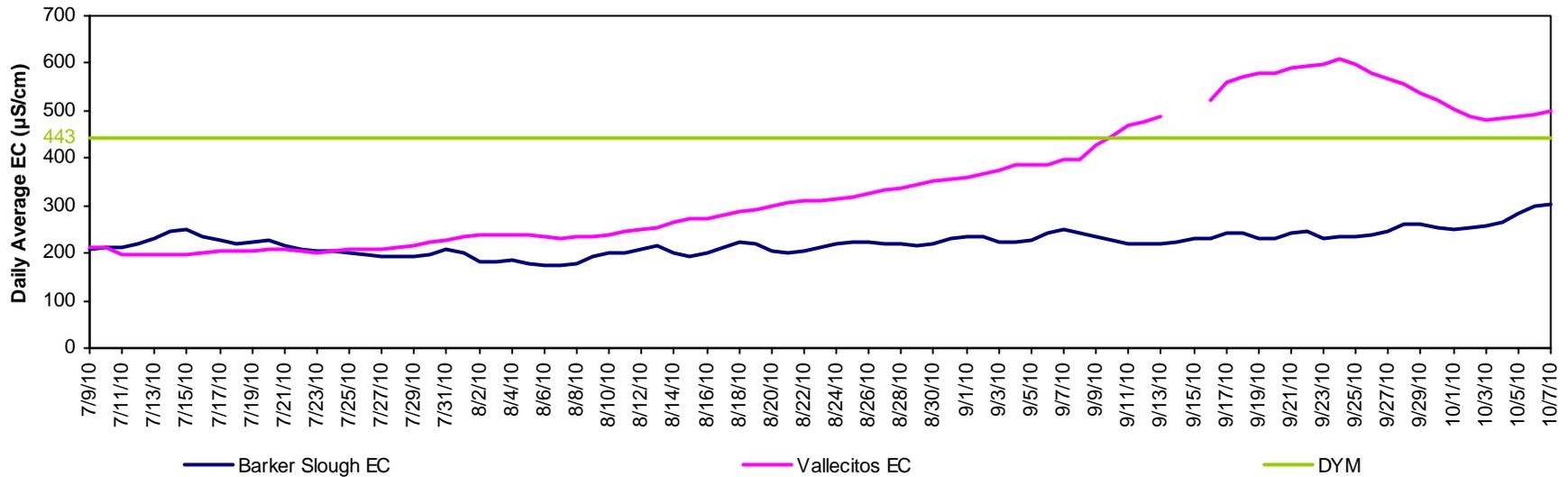
http://www.water.ca.gov/swp/waterquality/AutostationData/Autostation_map.cfm, and click on a station name on the map to link to the station's data on the California Data Exchange Center (CDEC) website.

To view the Edmonston's 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."

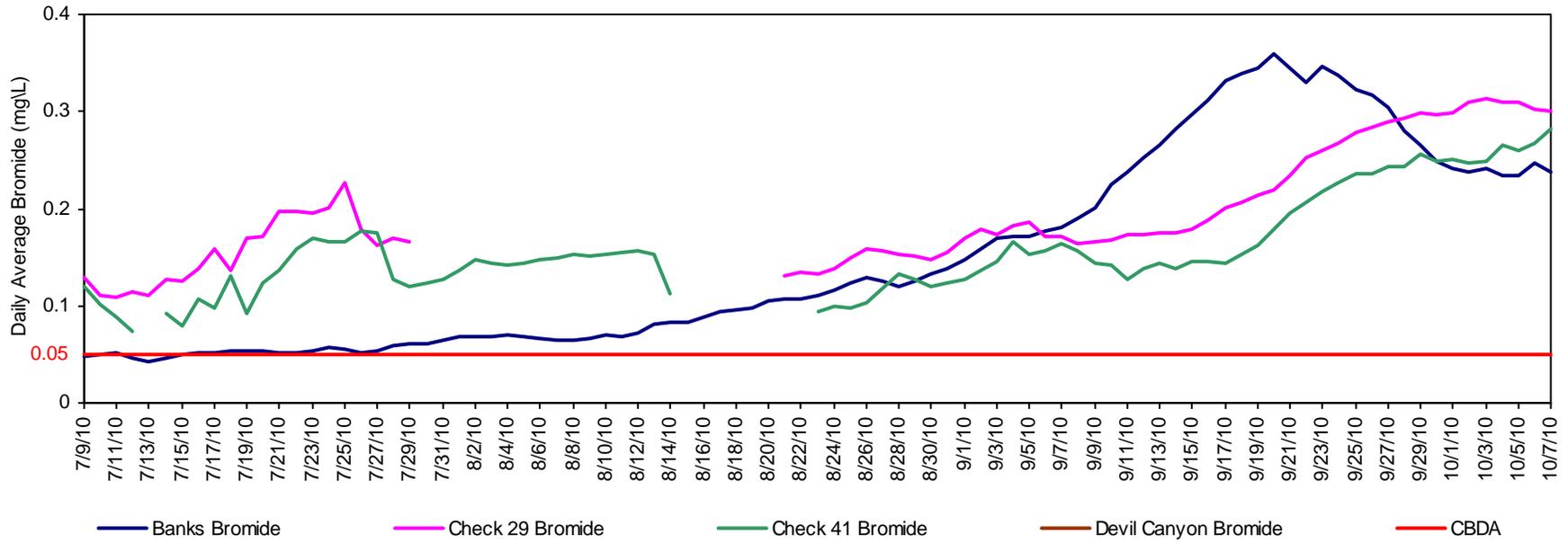
California Aqueduct - Electrical Conductivity



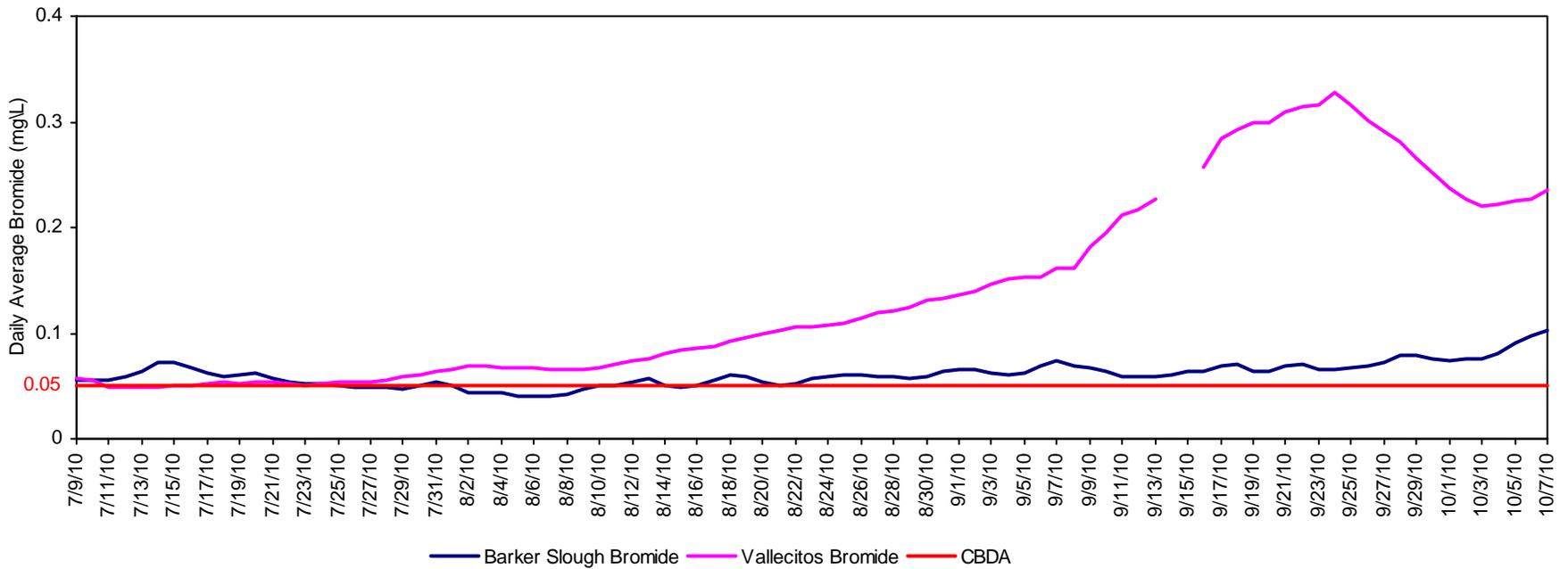
North and South Bay Aqueduct - Electrical Conductivity



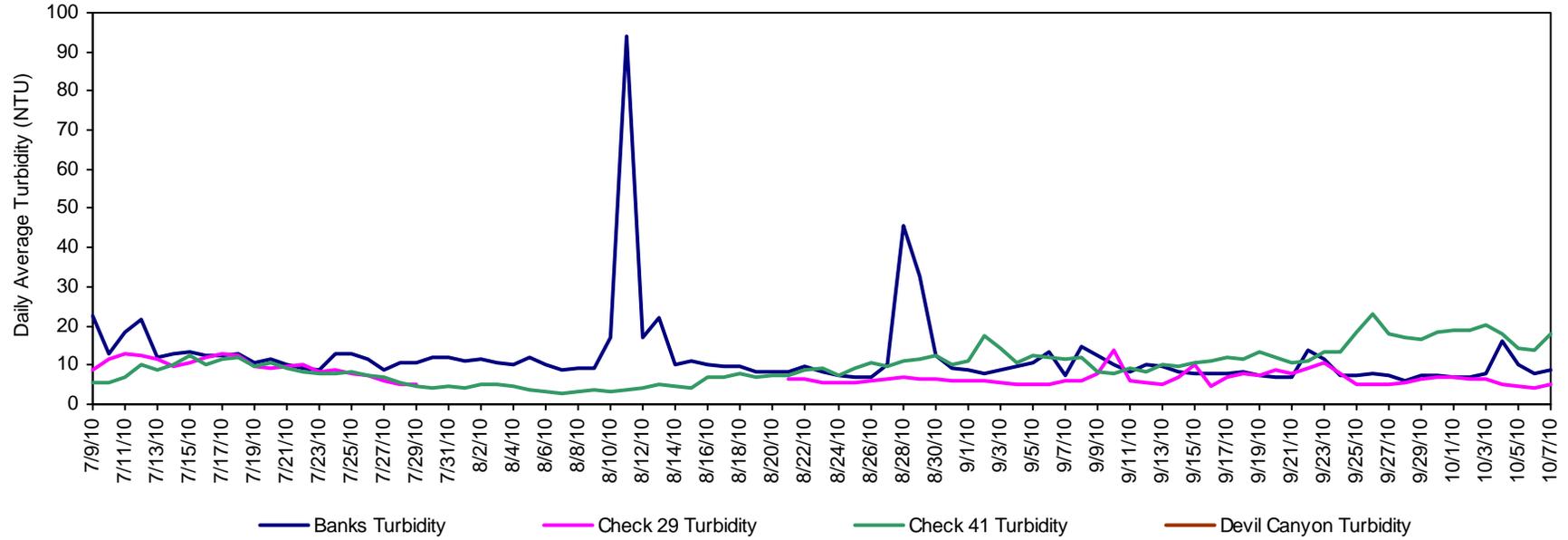
California Aqueduct - Calculated Bromide



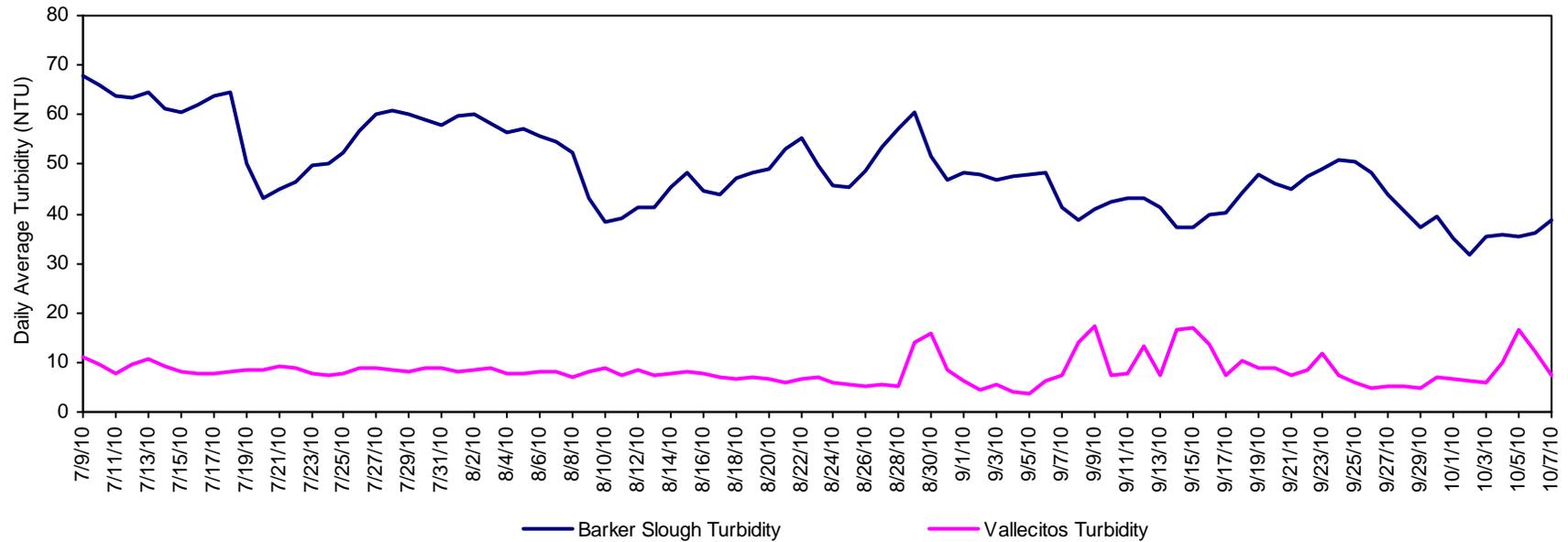
North and South Bay Aqueduct - Calculated Bromide



California Aqueduct - Turbidity



North and South Bay Aqueduct - Turbidity



California Aqueduct Calculated Dissolved Organic Carbon

