

# SWP Water Quality Summary

October 6 to 13, 2009

**Electrical Conductivity:** Concentrations decreased at Harvey O. Banks Pumping Plant (HBP), Check 29, Barker Slough and Vallecitos, but increased at Check 41 from October 6 to 13, 2009. Concentrations ranged from 242  $\mu\text{S}/\text{cm}$  to 574  $\mu\text{S}/\text{cm}$  (145 mg/L to 344 mg/L), below the Article 19 Monthly Average Objective of 440 mg/L (733  $\mu\text{S}/\text{cm}$ ). As of October 13, 2009, daily average concentrations varied at all the locations, with the lowest concentration of 242  $\mu\text{S}/\text{cm}$  occurring at Barker Slough, while the highest concentration of 561  $\mu\text{S}/\text{cm}$  occurred at Vallecitos. EC concentrations at HBP decreased slightly from 513  $\mu\text{S}/\text{cm}$  to 493  $\mu\text{S}/\text{cm}$  as of October 13, 2009.

**Bromide:** Concentrations exceeded the California Bay Delta Authority (CBDA) Objective of 0.05 mg/L at all locations. Bromide concentrations ranged from 0.07 mg/L to 0.30 mg/L. As of October 13, 2009, Barker Slough had the lowest concentration of 0.07 mg/L, while the highest concentration of 0.29 mg/L occurred at Vallecitos. Bromide concentrations are calculated values using linear regression equations using EC concentrations and are not as accurate as bromide concentrations from laboratory analysis.

**Turbidity:** As of October 13, 2009, turbidity levels increased at HBP, Check 41, Barker Slough and Vallecitos. Turbidity levels ranged from 1.9 NTU to 72.9 NTU during the week. On October 13, 2009, the lowest level of 5.2 NTU occurred at HBP, while the highest level of 72.9 NTU occurred at Barker Slough. As of October 13, 2009, the levels at HBP increased from 3.8 NTU to 5.2 NTU.

**Dissolved Organic Carbon (DOC):** DOC concentrations decreased from 2.5 mg/L to 2.1 mg/L at HBP, but remained unchanged at 2.2 mg/L at Check 13, from October 6 to 13, 2009.

**Taste and Odor Compounds:** As of October 5, 2009, MIB and geosmin levels ranged from ND to 47 ng/L at Check 41, Check 66, Diamond Valley Lake, Lake Mathews, Lake Perris and Lake Skinner.

Ground water pump-ins to the California Aqueduct during October 6 to 13, 2009 totaled 5,603 AF. The break down of the total volume was:

- Arvin Edison Water Storage District = 1,954 AF
- Kern Water Bank Authority (who operate the Kern Water Bank Canal) = 1,631 AF
- Kern County Water Agency (who operate the Cross Valley Canal) = 2,018 AF

*As of October 13 2009, no data were available for Edmonston PP because of malfunctioning instruments.*

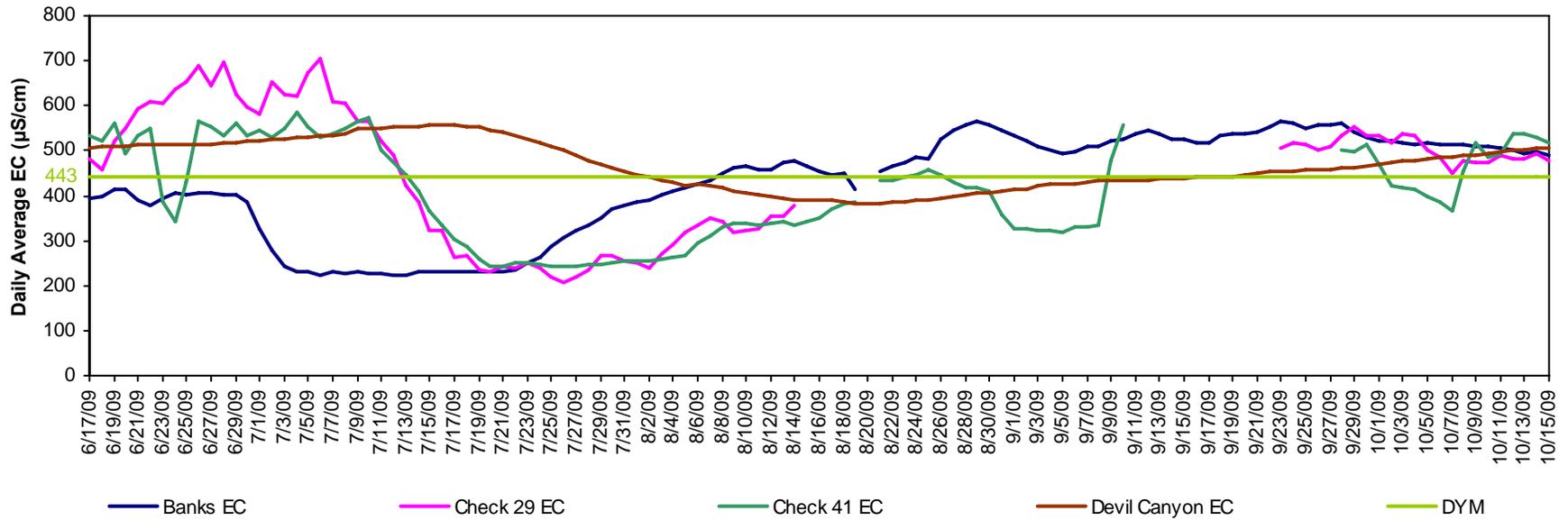
The intent of the weekly water quality (WQ) summary is to acquaint contractors, scientists and interested parties with the status of water quality in the State Water Project (SWP). Your comments, questions and suggestions are welcome and can be directed to Cindy Garcia @ 916-653-7213, or Austine Eke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

automated stations along the SWP, visit:

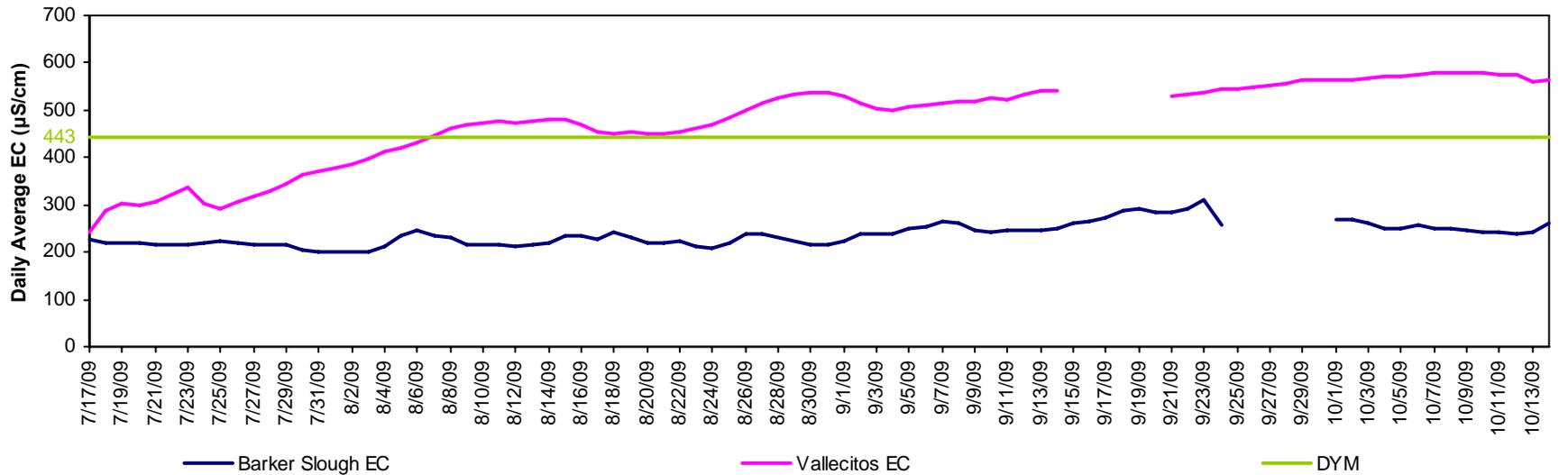
[http://www.water.ca.gov/swp/waterquality/AutostationData/Autostation\\_map.cfm](http://www.water.ca.gov/swp/waterquality/AutostationData/Autostation_map.cfm), and click on a station name on the map to link to the station's data on the California Data Exchange Center (CDEC) website.

To view the Edmondston's daily AF pumping data, visit: [www.water.ca.gov](http://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."

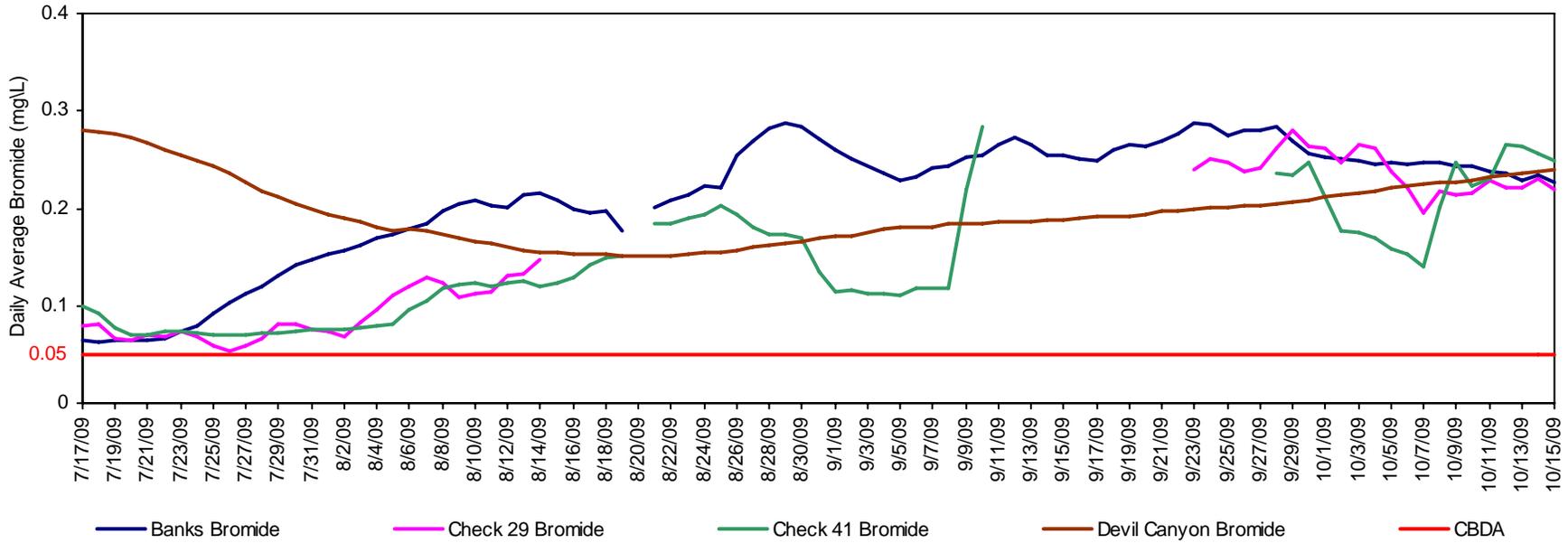
### California Aqueduct - Electrical Conductivity



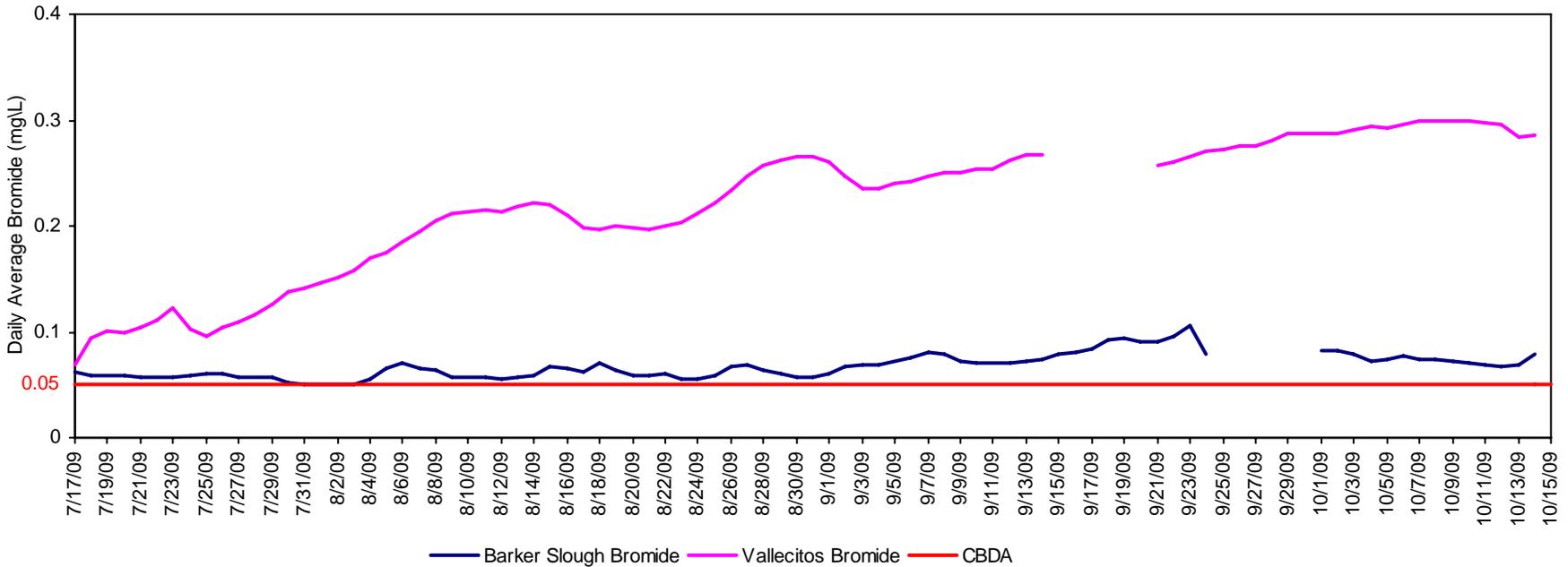
### North and South Bay Aqueduct - Electrical Conductivity



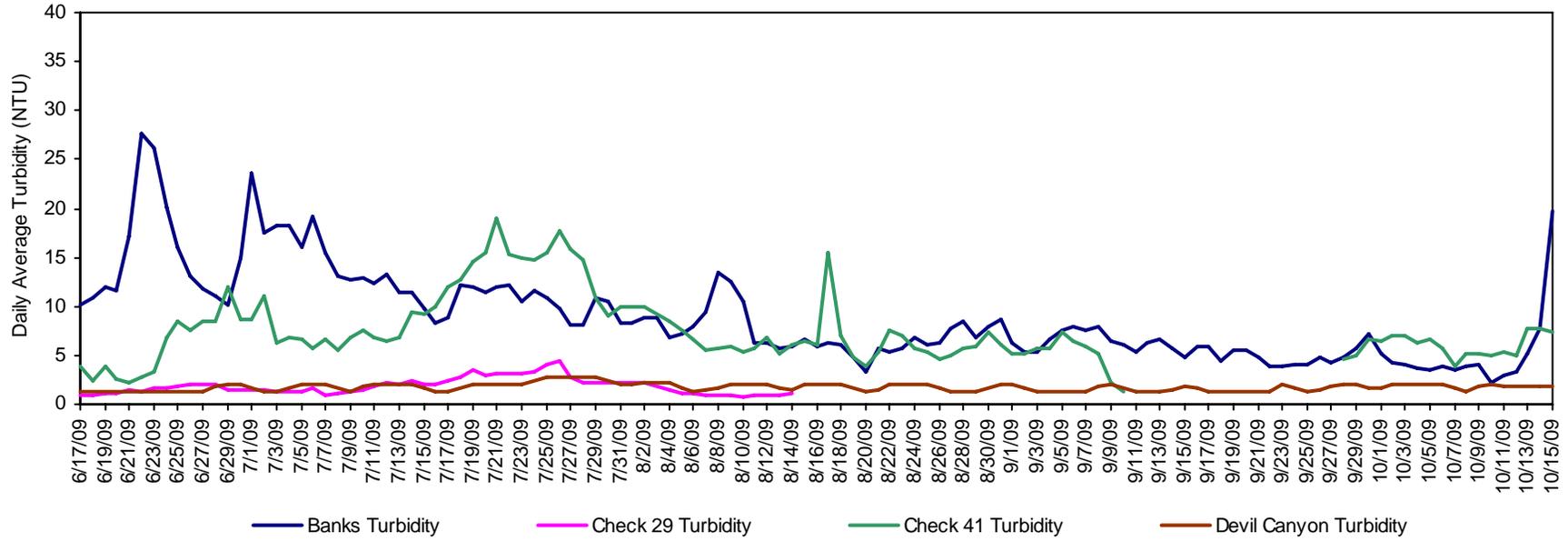
### California Aqueduct - Calculated Bromide



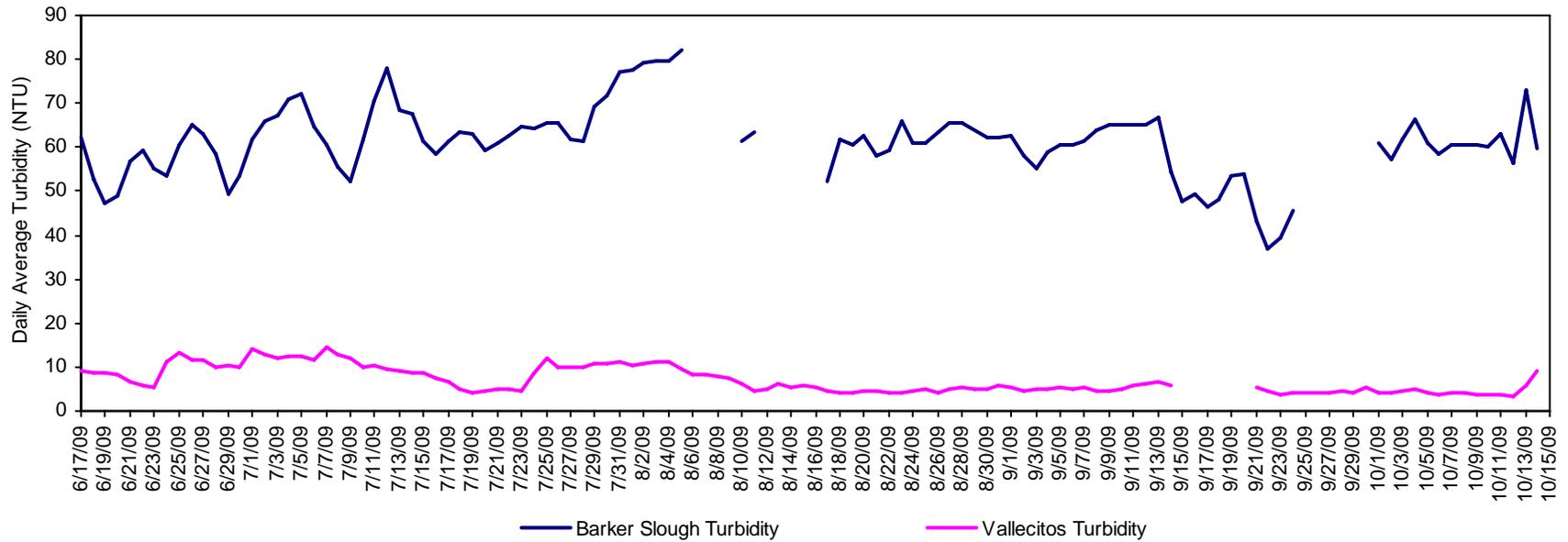
### North and South Bay Aqueduct - Calculated Bromide



### California Aqueduct - Turbidity



### North and South Bay Aqueduct - Turbidity



# California Aqueduct Calculated Dissolved Organic Carbon

