SWP Weekly Water Quality Summary

December 30, 2009 to January 5, 2010

Electrical Conductivity: Concentrations increased at Harvey O. Banks Pumping Plant (HBP), and Barker Slough, but decreased at Check 41 and Devil Canyon from December 30, 2009 to January 5, 2010. During this week, concentrations ranged from 344 µS/cm to 678 µS/cm (206 mg/L to 407 mg/L), below the Article 19 Monthly Average Objective of 440 mg/L (733 µS/cm). As of January 5, 2010, the lowest concentration of 364 µS/cm occurred at Barker Slough while the highest concentration of 676 µS/cm occurred at HBP. EC concentrations at HBP increased from 575 µS/cm to 676 µS/cm as of January 5.

Bromide*: Concentrations exceeded the California Bay Delta Authority (CBDA) Objective of 0.05 mg/L at all locations. Concentrations ranged from 0.13 mg/L to 0.39 mg/L. As of January 5, Barker Slough had the lowest concentration of 0.13 mg/L, while the highest concentration of 0.39 mg/L occurred at HBP. Concentrations at HBP increased from 0.30 to 0. 39 mg/L this week.

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

Turbidity: From December 30, 2009 to January 5, 2010 turbidity levels decreased at HBP, and Barker Slough, but increased at Check 41 and Devil Canyon. Turbidity levels ranged from 1.1 NTU to 44.7 NTU during the week. As of January 5, 2010, the lowest level of 1.1 NTU occurred at Devil Canyon, while the highest level of 35.5 NTU occurred at Barker Slough. As of January 5, turbidity levels at HBP decreased from 6.7 NTU to 6.5 NTU.

Dissolved Organic Carbon (DOC): Concentrations increased from 3.0 mg/L to 3.1 mg/L at HBP, from 2.6 mg/L to 2.7 mg/L at Check 13, and from 2.0 to 2.2 mg/L at Edmonston as of December 30, 2009.

Taste and Odor Compounds: From January 3 to 5, 2010, MIB concentrations were low project wide ranging from ND to 4 ng/L. Geosmin concentrations ranged from ND to 14 ng/L. The highest geosmin concentrations were:

- California Aqueduct Pool 43 (MP 307.23) 8 ng/L
- California Aqueduct Pool 66 (MP 403.41) 14 ng/L.

Ground water pump-ins to the California Aqueduct from December 30, 2009 to January 5, 2010 totaled 10,204 AF. The break down of the total volume was:

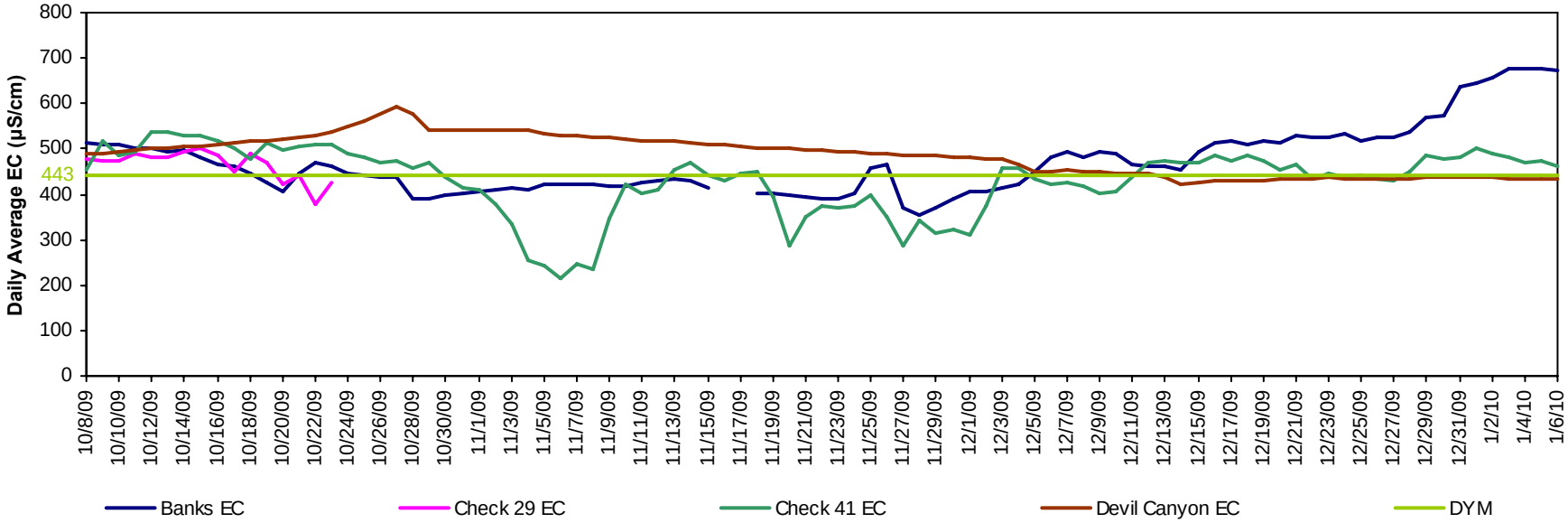
- Arvin Edison Water Storage District = 2,680 AF
- Kern Water Bank Authority (who operate the Kern Water Bank Canal) = 3,604 AF
- Kern County Water Agency (who operate the Cross Valley Canal) = 2,046 AF
- Semitropic (2&3) Water Storage District = 67 AF
- Wheeler Ridge Maricopa Water Storage District = 1,807 AF.

As of January 5, 2010, no data were available for Del Valle Check 7 and Vallecitos due to maintenance driven station shut downs and for Check 29 due to a malfunctioning turbidity instrument and the water quality station upgrades currently underway.

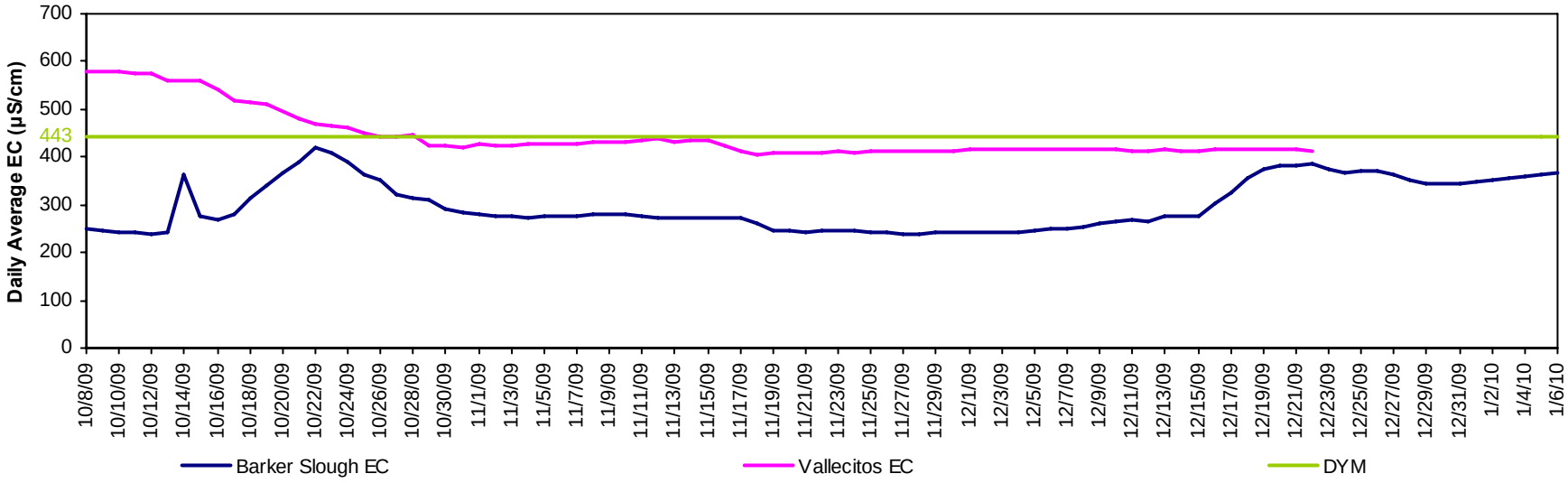
The intent of the weekly water quality (WQ) summary is to acquaint contractors, scientists and interested parties with the status of water quality in the State Water Project (SWP). Your comments, questions and suggestions are welcome and can be directed to Cindy Garcia @ 916-653-7213, or Austine Eke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

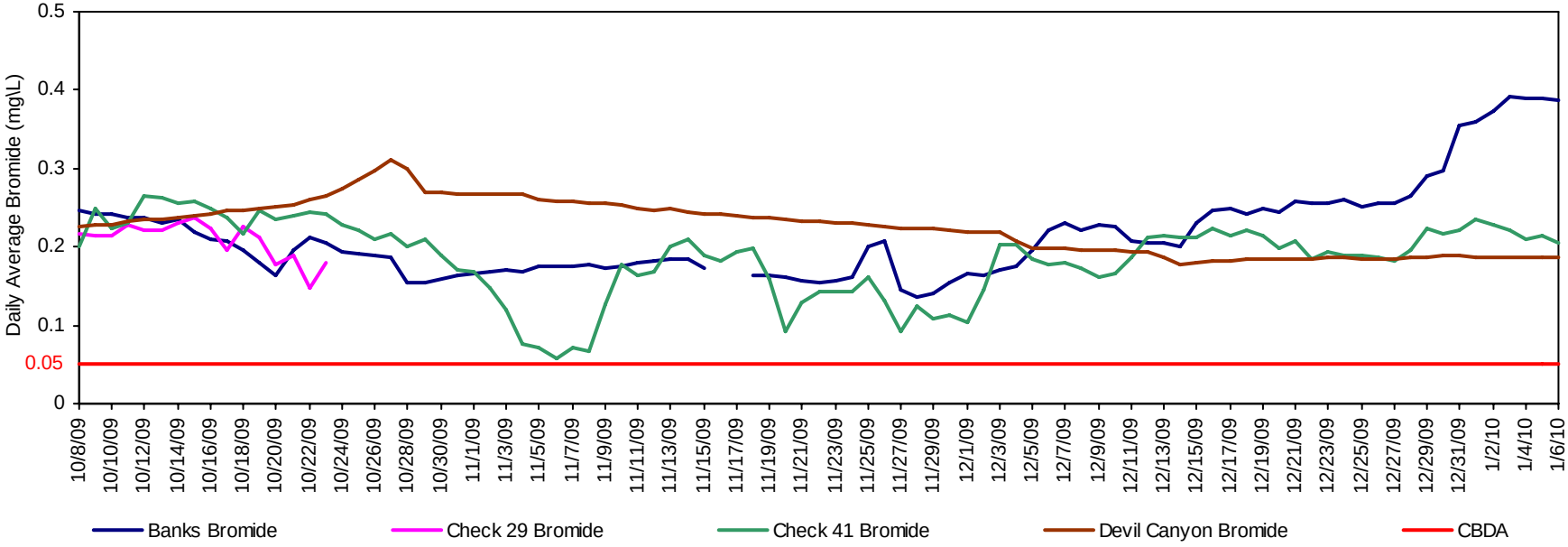
California Aqueduct - Electrical Conductivity



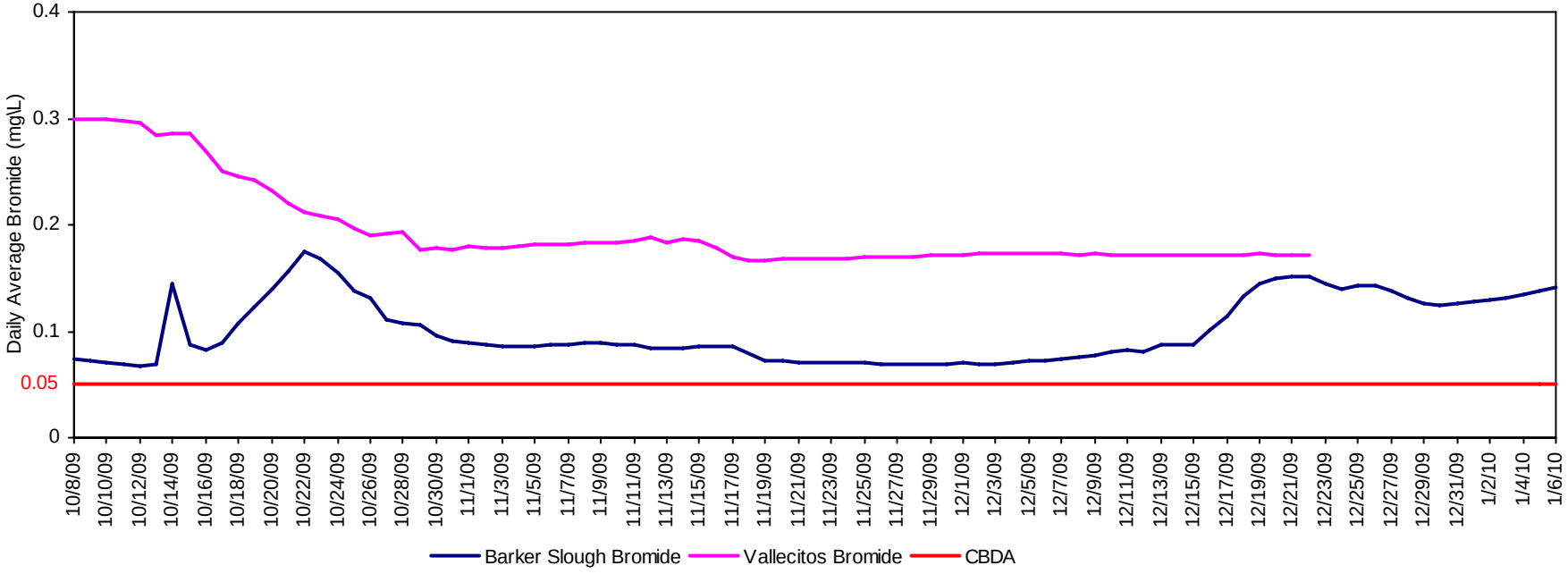
North and South Bay Aqueduct - Electrical Conductivity



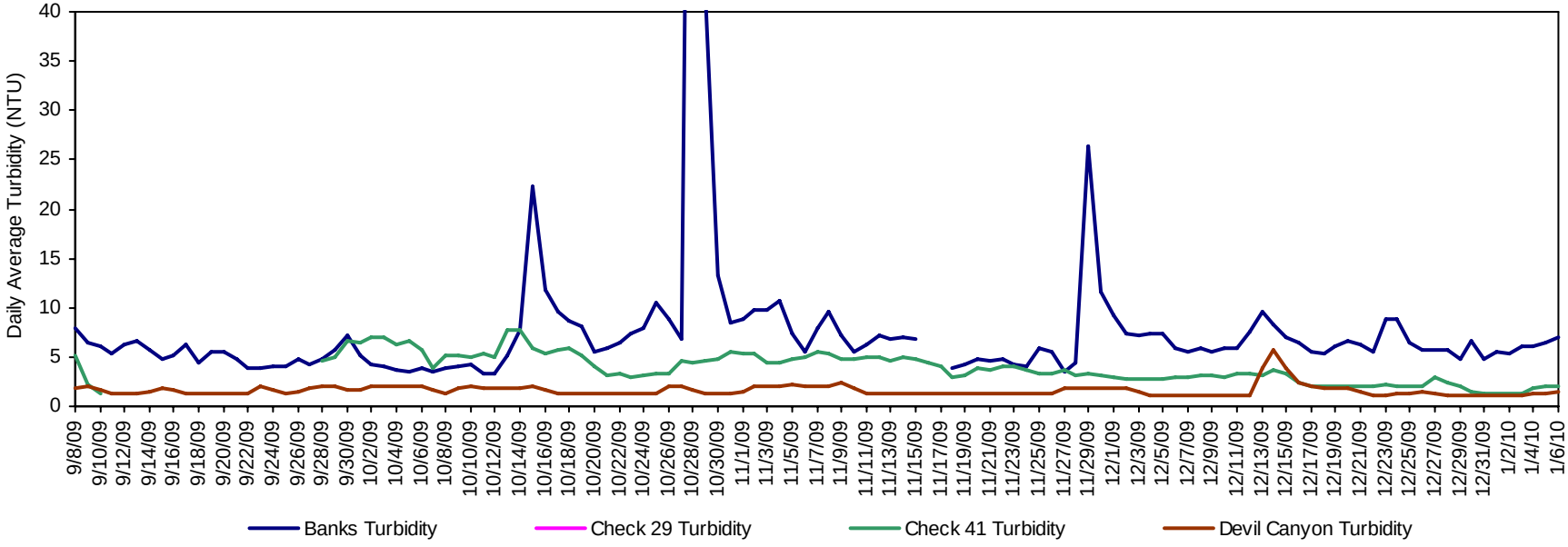
California Aqueduct - Calculated Bromide



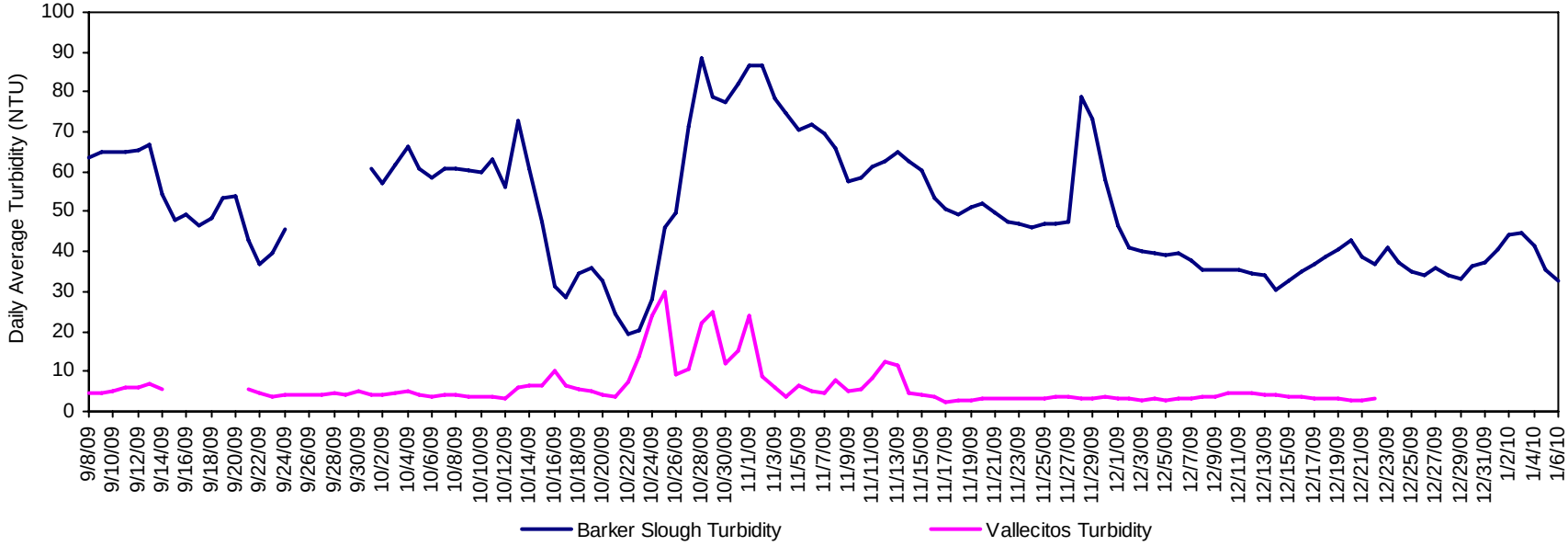
North and South Bay Aqueduct - Calculated Bromide



California Aqueduct - Turbidity



North and South Bay Aqueduct - Turbidity



California Aqueduct
Calculated Dissolved Organic Carbon