

# SWP Water Quality Summary

January 8 to February 10, 2009

**Electrical Conductivity:** EC increased at Banks Pumping Plant (BPP), Check 29, Barker Slough and Vallecitos, but decreased at Check 41 and Devil Canyon, from January 8 to February 10, 2009. Concentrations ranged from 306 uS/cm to 776 uS/cm, above the Article 19 Monthly Average Objective of 440 mg/L (733 uS/cm). Daily average concentrations varied at all the locations. The lowest and highest concentrations of 380 uS/cm and 776 uS/cm as of February 10, 2009 occurred at Barker Slough and BPP, respectively. Concentrations increased this month at BPP from 675 uS/cm to 776 uS/cm.

**Bromide:** Concentrations exceeded the California Bay Delta Authority (CBDA) Objective of 0.05 mg/L at all locations and ranged from 0.10 mg/L to 0.49 mg/L. As of February 10, Barker Slough had the lowest concentration of 0.15 mg/L, followed by Devil Canyon with 0.22 mg/L while the highest concentration of 0.49 mg/L occurred at BPP. Concentration at BPP has been relatively steady, and was 0.49 mg/L as of February 10, 2009.

**Turbidity:** Turbidity levels decreased at BPP, Check 41 and Vallecitos, but increased at Check 29, Devil Canyon and Barker Slough. Turbidity levels ranged from 1.3 NTU to 22 NTU as of February 10, 2009. The lowest level of 1.3 NTU occurred at Devil Canyon while the highest level of 22 NTU occurred at Barker Slough on February 10, 2009. BPP mean daily turbidity levels decreased from 9.2 NTU on January 8 to 5.8 NTU as of February 10, 2009.

**Dissolved Organic Carbon (DOC):** Concentrations increased at all locations except at Edmonston from January 8 to February 10, 2009. DOC daily average concentrations at BPP and Check 13 ranged from 4.2 mg/L to 4.5 mg/L and from 3.6 mg/L to 4.0 mg/L, but decreased from 1.7 mg/L to 0.8 mg/L at Edmonston.

**Taste and Odor Compounds:** MIB and geosmin concentrations in the SWP was low project wide, ranging from non-detect to 4 ng/L at Clifton Court, BPP, Lake Del Valle Check 7, Check 13, Check 41, Check 66, Silverwood Lake and Lake Perris.

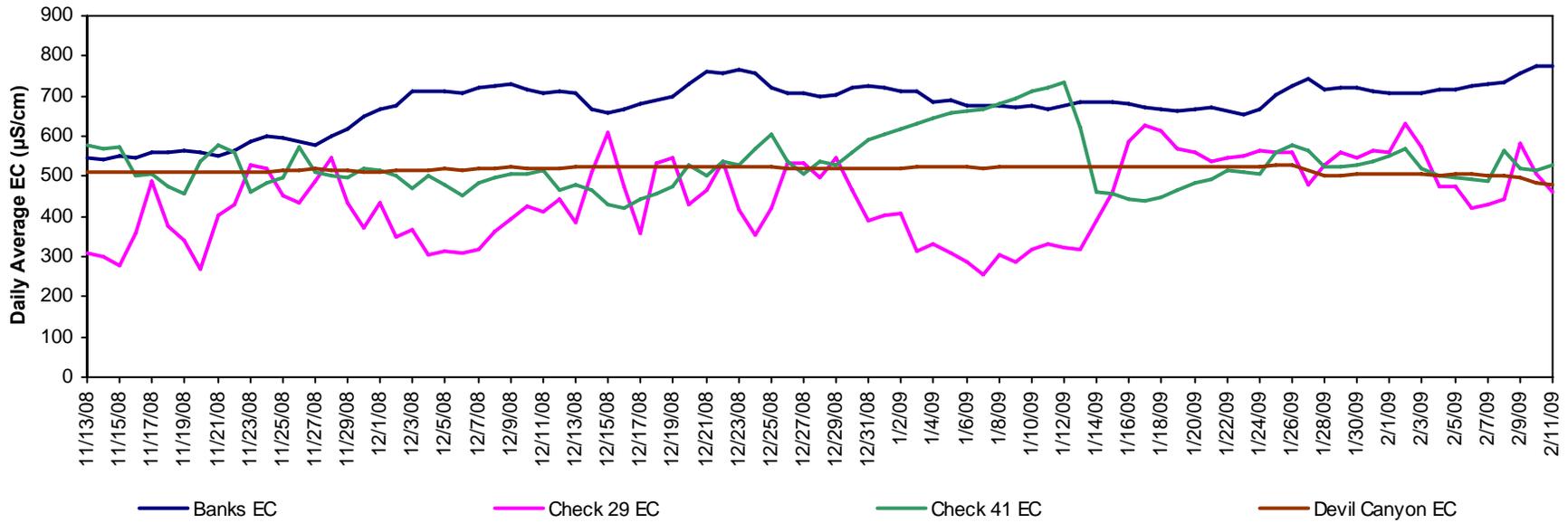
**Pump-ins:** Pump-ins to the State Water Project (SWP) from the banking programs (Alvin Edison, Kern Water Bank, Cross Valley Canal, Semi-tropic and Wheeler Ridge Storage Water District) this month added a total volume of 37,187 acre feet (AF).

## Note:

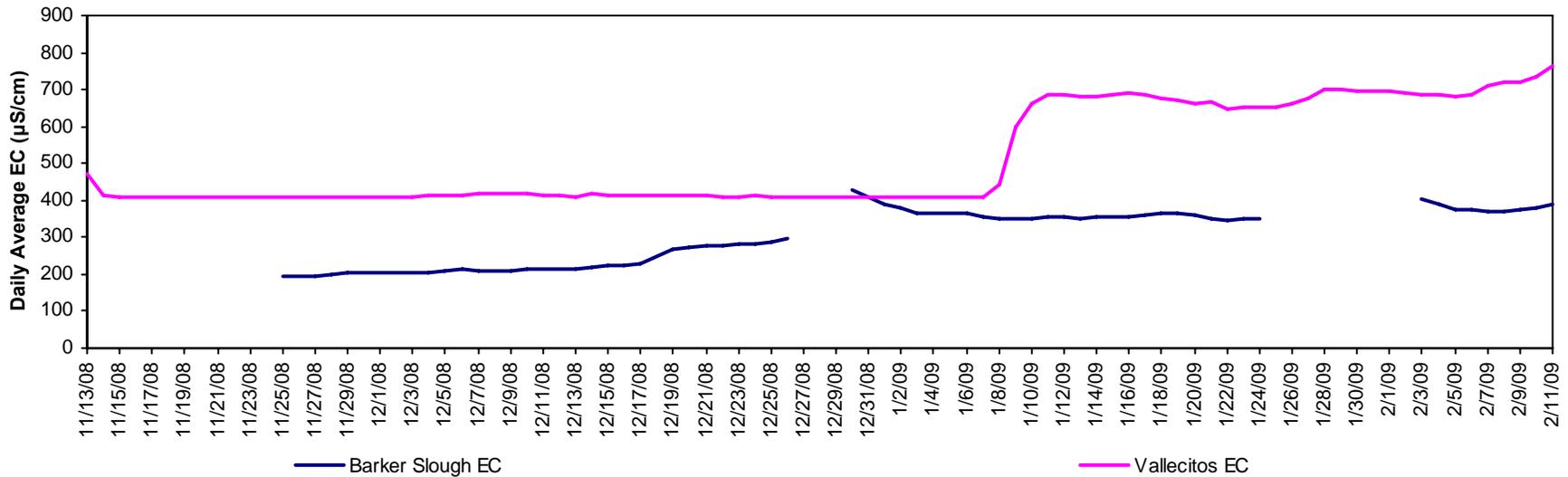
The intent of the weekly water quality (WQ) summary is to acquaint contractors, scientists and interested parties with the status of water quality in the State Water Project (SWP). Your comments, questions and suggestions are welcome and can be directed to Cindy Garcia @ 916-653-7213, or Austine Eke @ 916-653-7227. To view WQ data from any of the 15 automated stations along the SWP, visit:

<http://www.wmq.water.ca.gov> and click the “Autostation Data” link on the left side navigation bar.

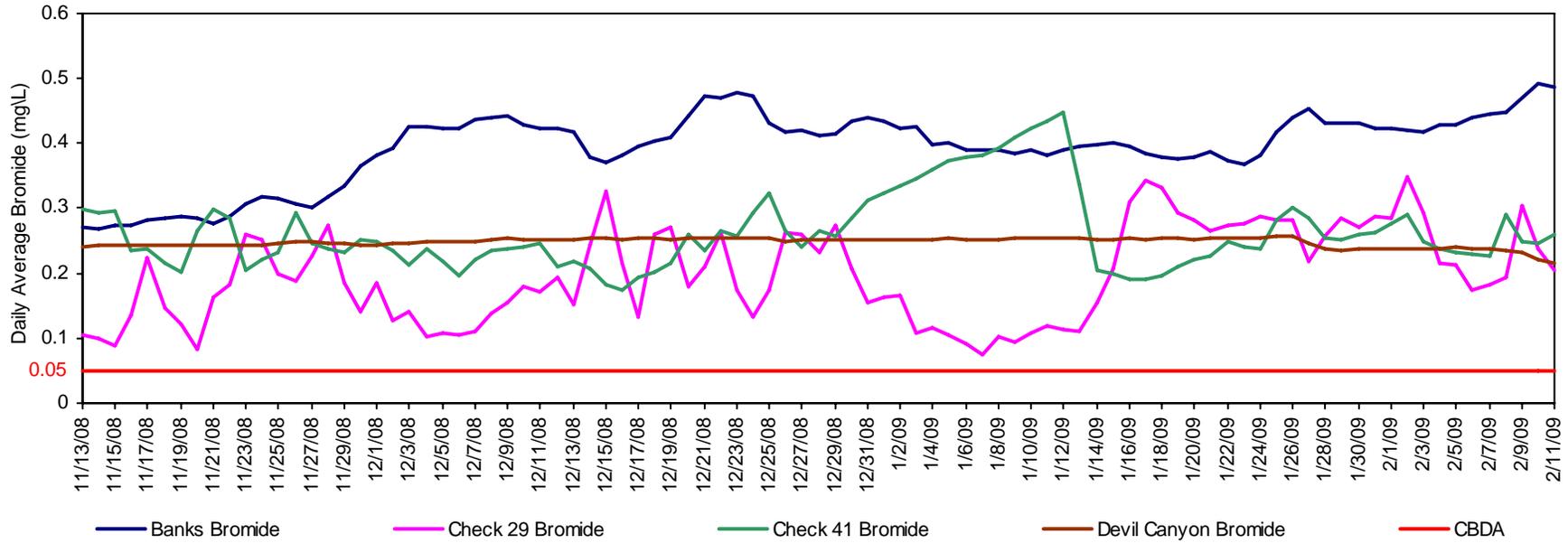
### California Aqueduct - Electrical Conductivity



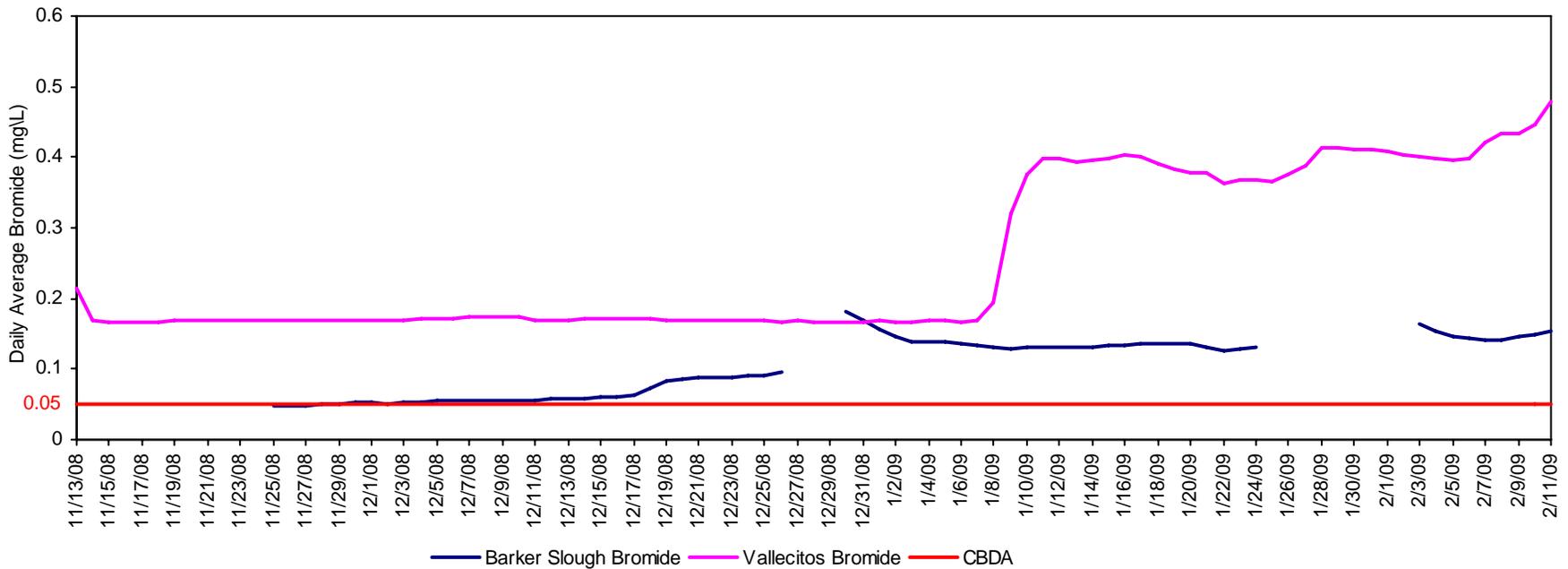
### North and South Bay Aqueduct - Electrical Conductivity



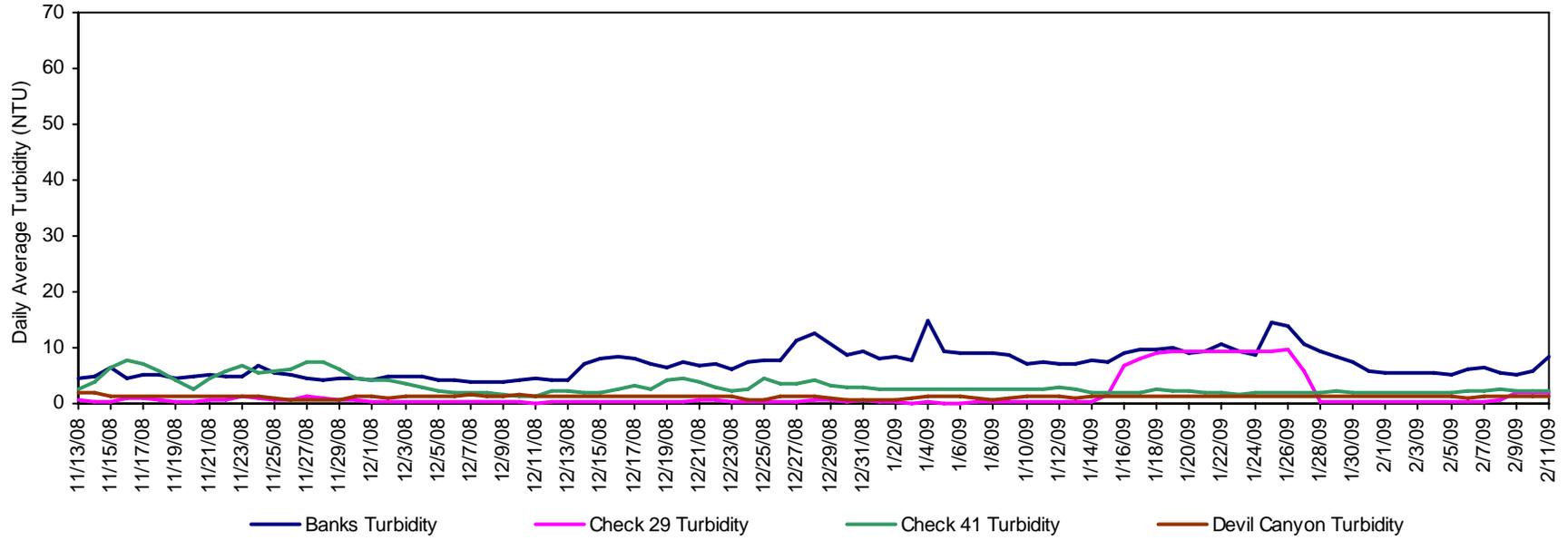
### California Aqueduct - Calculated Bromide



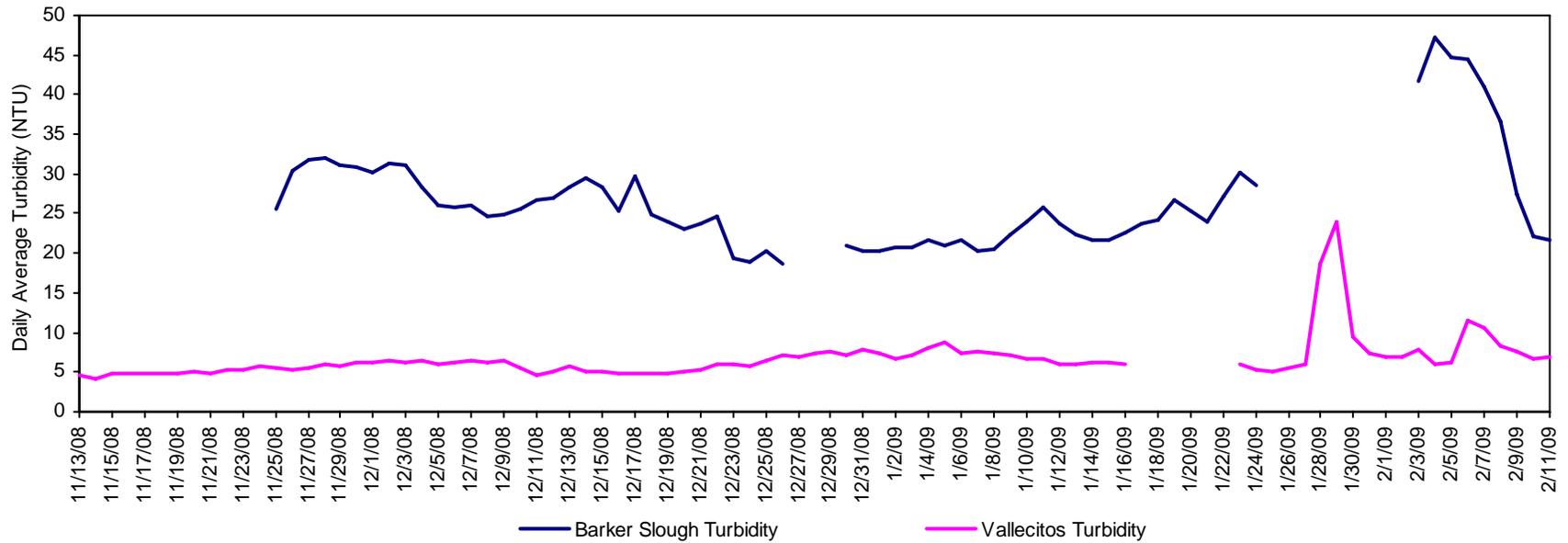
### North and South Bay Aqueduct - Calculated Bromide



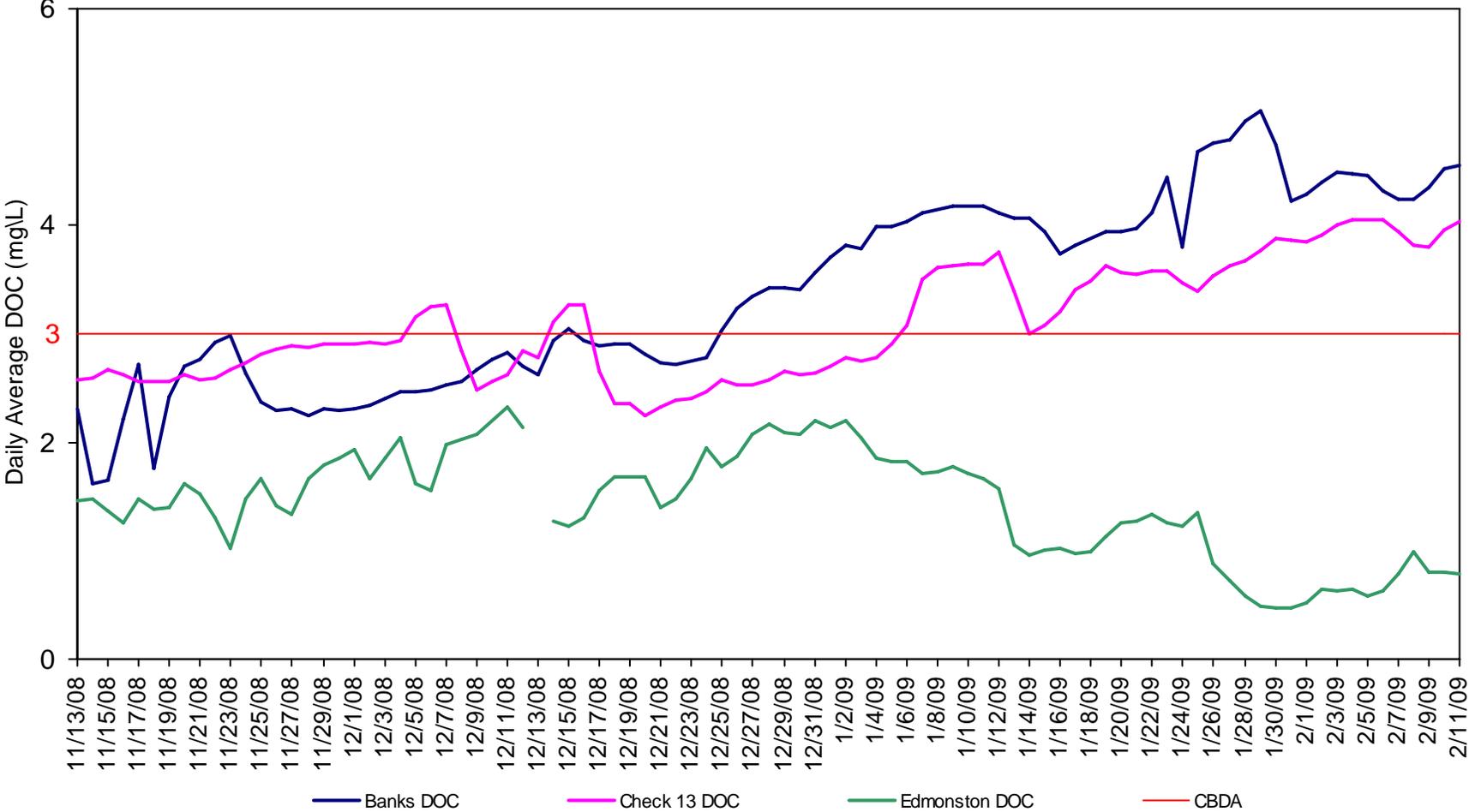
### California Aqueduct - Turbidity



### 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 January 8 to February 10, 2009

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**	average	698	494	542	514	363	674		
		1/8/09	675	306	680	522	352	444		
		2/10/09	776	504	515	483	380	734		
Bromide (mg/L)	0.05*	average	0.41	0.24	0.27	0.25	0.14	0.39		
		1/8/09	0.39	0.10	0.39	0.25	0.13	0.19		
		2/10/09	0.49	0.24	0.25	0.22	0.15	0.45		
Turbidity (NTU)		average	8	3.4	2.2	1.2	28.8	8.0		
		1/8/09	9.2	0.16	2.7	0.59	20.6	7.3		
		2/10/09	5.8	2.0	2.2	1.3	22.0	6.8		
DOC (mg/L)	3.0*	average	4.3						3.7	1.0
		1/8/09	4.2						3.6	1.7
		2/10/09	4.5						4.0	0.80
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
MIB (ng/L)	1/6/09 to	ND	ND	ND	ND	1	ND	ND	ND	ND
Geosmin (ng/L)	2/3/09	3	2	2	4	2	1	ND	ND	1

\*CBDA Objective

\*\*Article 19 Monthly Average (converted from 440 mg/L to 733 $\mu\text{S}/\text{cm}$ )

ND = Non-detect