

SWP 7-Day Water Quality Summary Report - California Aqueduct

For dates: 8/25/2014 to 9/1/2014

This water quality report is produced by the Department of Water Resources, Division of Operations and Maintenance, Water Quality Section.

To view WQ data from the automated stations along the SWP, visit: http://www.water.ca.gov/swp/waterquality/AutostationData/Autostation_map.cfm and use the map to click on a station name to link to the station's data on the California Data Exchange Center (CDEC) website.

I. Summary

California Aqueduct	8/25/2014	9/1/2014	% Change	7-Day Average
Clifton Court (CLC)				
Salinity (EC), $\mu\text{S}/\text{cm}$	566	562	-1	564
Temperature, $^{\circ}\text{C}$	24.9	25.0	<1	25.2
Turbidity, NTU	6.9	10.3	+ 49	8.5
pH	7.2	7.2	<1	7.2
Harvey Banks Pumping Plant (HBP)				
Salinity (EC), $\mu\text{S}/\text{cm}$	561	541	-4	564
Temperature, $^{\circ}\text{C}$	22.4	23.5	+ 4	23.0
Turbidity, NTU	3.9	4.2	+ 8	3.8
pH	8.0	7.9	-1	8.0
UVA @ 254nm (u/cm)	0.114	0.099	-14	0.107
O'Neill Forebay Outlet (C13)				
Salinity (EC), $\mu\text{S}/\text{cm}$	659	624	-6	636
Temperature, $^{\circ}\text{C}$	21.3	23.1	+ 8	22.9
Turbidity, NTU	3.0	2.3	-24	2.3
pH	9.0	8.7	-4	8.8
UVA @ 254nm (u/cm)	0.090	0.092	+ 2	0.091
Check 21 (C21)				
Salinity (EC), $\mu\text{S}/\text{cm}$	729	724	-1	726
Temperature, $^{\circ}\text{C}$	25.9	25.7	-1	25.8
Turbidity, NTU	5.4	3.6	-35	4.1
pH	9.3	9.0	-4	9.1

Check 29 (C29)				
Salinity (EC), $\mu\text{S/cm}$	653	587	-11	592
Temperature, $^{\circ}\text{C}$	25.7	25.6	-1	25.4
Turbidity, NTU	3.9	2.9	-28	3.2
pH	9.7	9.9	+ 2	9.7

Check 41 (C41)				
Salinity (EC), $\mu\text{S/cm}$	577	579	<1	566
Temperature, $^{\circ}\text{C}$	28.1	27.7	-2	28.0
Turbidity, NTU	5.3	5.1	-3	5.0
pH	8.8	8.6	-3	8.7

Castaic Lake Outlet (CSO)				
Salinity (EC), $\mu\text{S/cm}$	488	476	-3	479
Temperature, $^{\circ}\text{C}$	18.7	19.7	+ 5	19.2
Turbidity, NTU	2.0	2.5	+ 22	2.1
pH	7.5	8.0	+ 6	7.8

Check 66 (C66)				
Salinity (EC), $\mu\text{S/cm}$	758	627	-18	665
Temperature, $^{\circ}\text{C}$	22.6	23.8	+ 5	23.6
Turbidity, NTU	8.1	9.3	+ 14	6.8

Devil Canyon 2nd Afterbay (DC2)				
Salinity (EC), $\mu\text{S/cm}$	595	589	-2	592
Temperature, $^{\circ}\text{C}$	m	m	---	---
Turbidity, NTU	9.1	8.7	-5	8.8

'm' indicates missing data. '---' indicates 'not applicable'. All data are preliminary and subject to revision without notice.

II. Notes (updated on 9/1/2014)

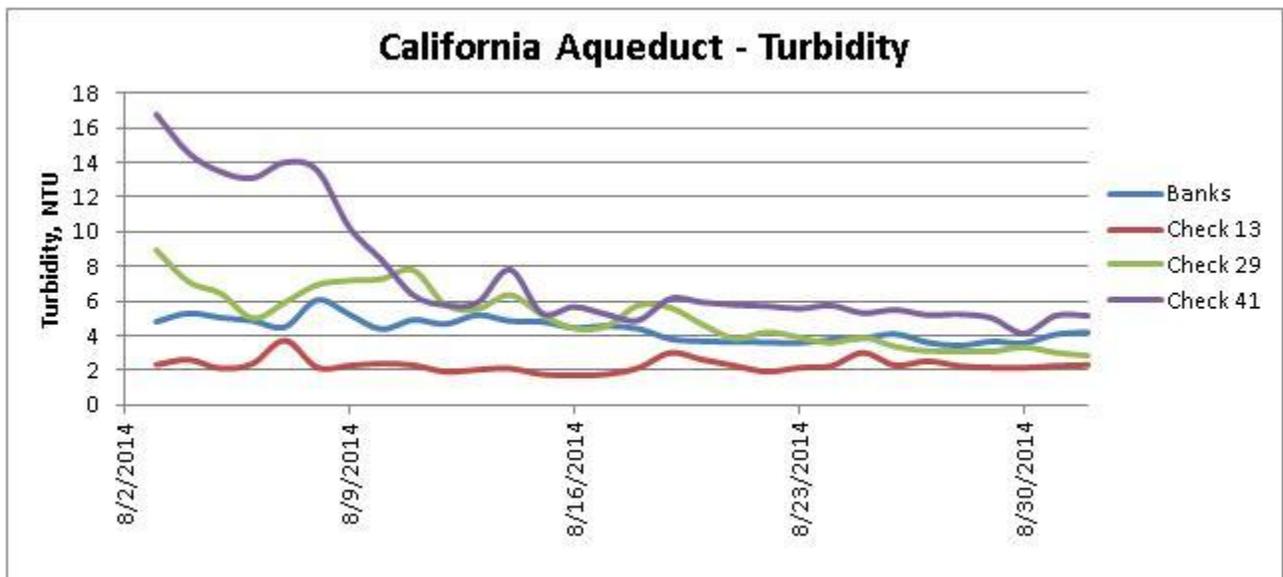
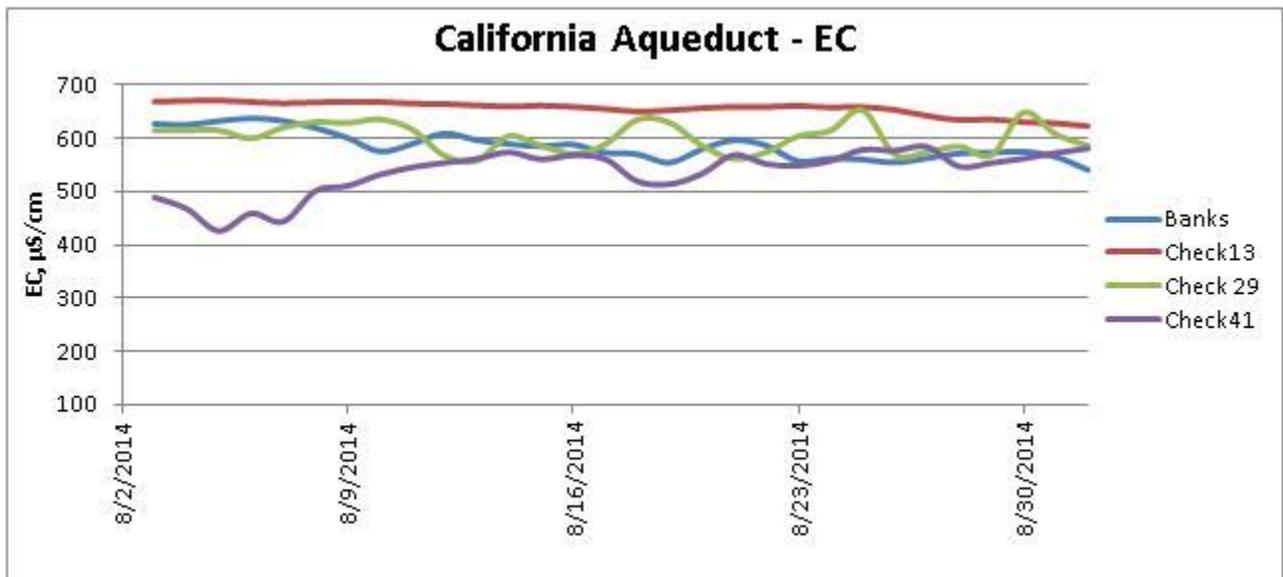
Taste and Odor: MIB and geosmin concentrations in water sampled on August 25 at Clifton Court Inlet, Banks Pumping Plant, Del Valle Check 7, Dyer Reservoir, O'Neill Forebay Outlet (Check 13), Gianelli Pumping-Generating Plant, and Pacheco Pumping Plant and on August 26 at Lake Del Valle ranged from < 1 to 32 ng/L. MIB concentrations ranged from < 1 ng/L at Lake Del Valle to 19 ng/L at Banks Pumping Plant. Geosmin concentrations ranged from < 1 ng/L at Lake Del Valle to 32 ng/L at Dyer Reservoir.

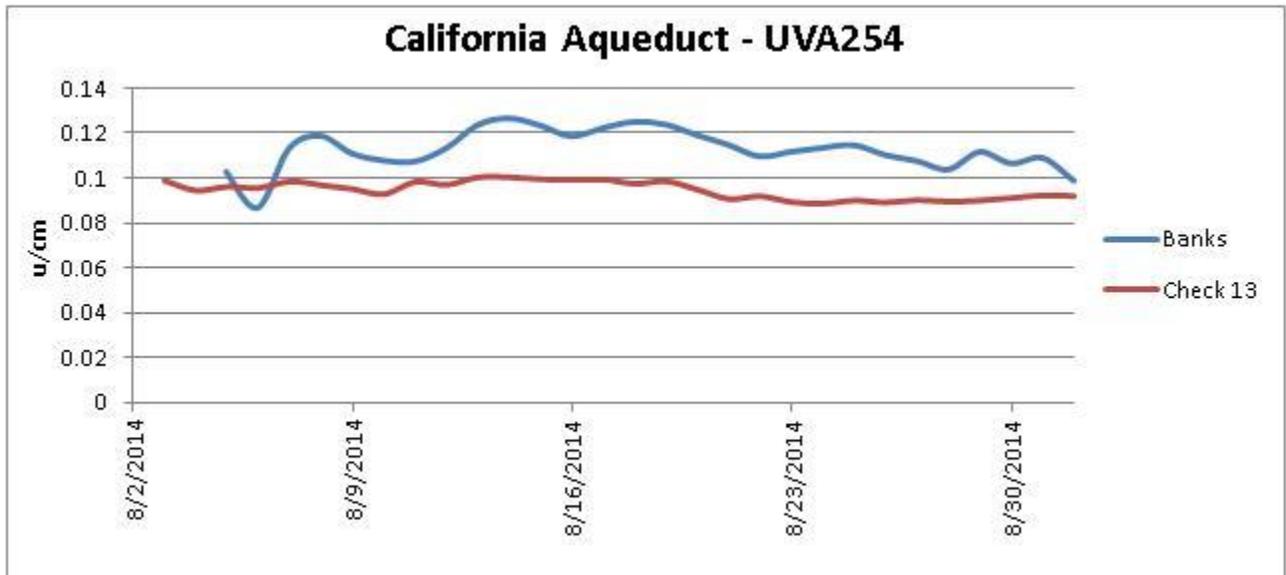
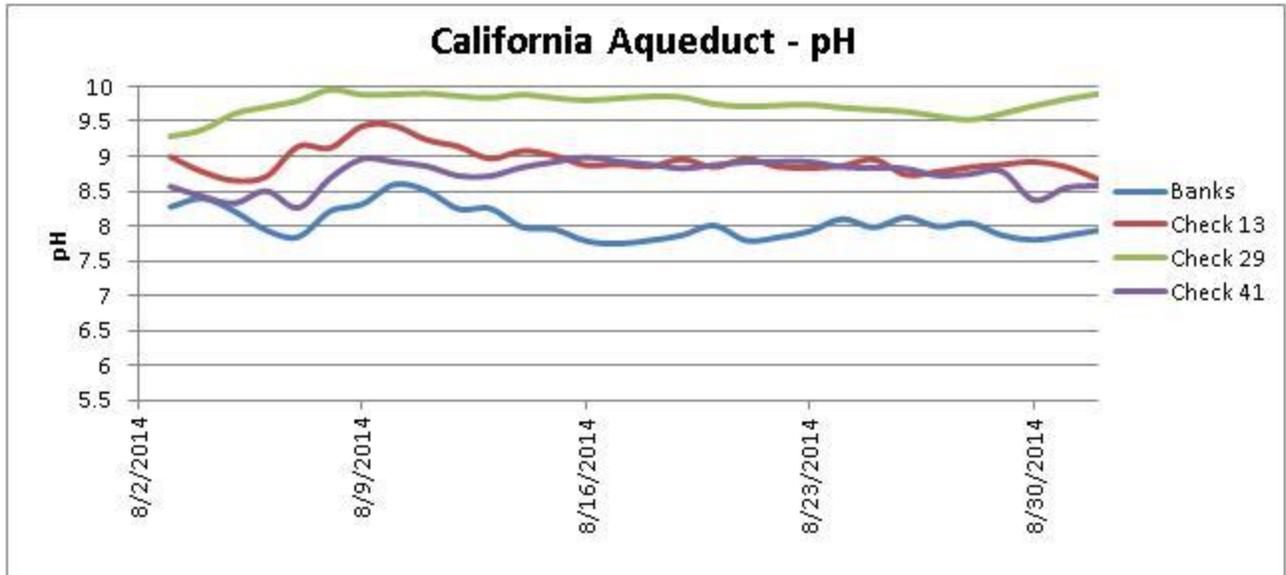
Bromide: Bromide concentrations at Banks Pumping Plant decreased over the past month. The average bromide concentration at Banks Pumping Plant (HRO) was 0.35 mg/L on September 1, compared to 0.42 mg/L on August 2.

On August 26, Lake Del Valle was sampled at depths of 1, 12, and 20 meters. Bromide concentrations were 0.21 mg/L at 1m and 0.20 mg/L at 12 and 20 m.

Total Organic Carbon: Organic carbon in the Delta has been decreasing over the past month. The average total organic carbon concentration at Banks Pumping Plant (HRO) was 3.8 mg/L on September 1, compared to 4.9 mg/L on August 2.

III. 30-Day Charts for Selected Sites:





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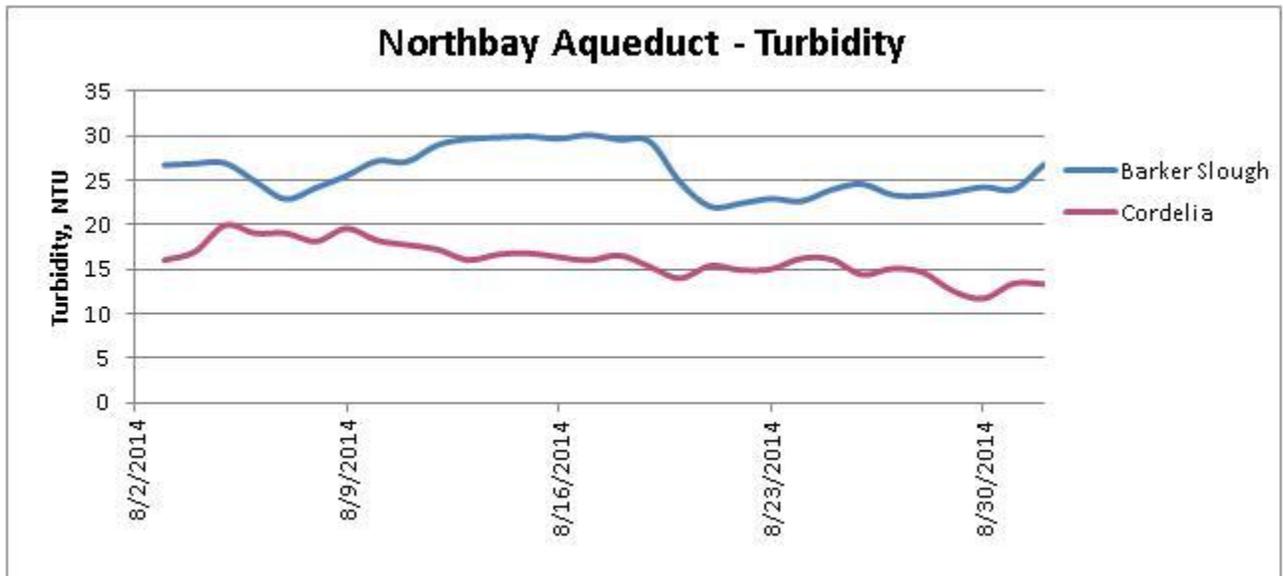
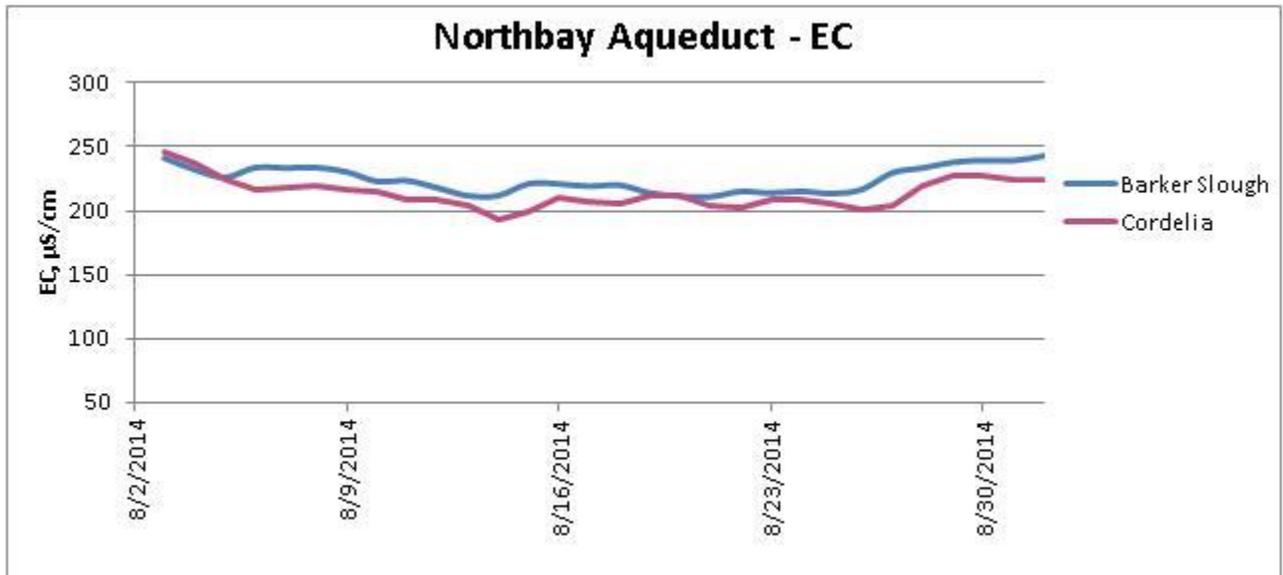
North Bay Aqueduct	8/25/2014	9/1/2014	% Change	7-Day Average
Barker Slough				
Salinity (EC), $\mu\text{S}/\text{cm}$	214	243	+ 13	235
Temperature, $^{\circ}\text{C}$	21.2	22.6	+ 6	21.9
Turbidity, NTU	23.9	26.7	+ 12	24.2
pH	7.8	7.7	-1	7.7
Cordelia Pumping Plant				
Salinity (EC), $\mu\text{S}/\text{cm}$	206	224	+ 8	218
Temperature, $^{\circ}\text{C}$	21.1	21.6	+ 2	21.3
Turbidity, NTU	16.1	13.3	-18	13.6

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II. Notes (updated on 9/1/2014)

N/A

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UVA @ 254nm (u/cm)	0.114	0.099	-14	0.107
Del Valle Check 7 (DV7)				
Salinity (EC), $\mu\text{S/cm}$	568	569	<1	569
Temperature, $^{\circ}\text{C}$	21.9	23.0	+ 4	22.6
Turbidity, NTU	8.6	5.0	-43	5.3
pH	8.3	8.5	+ 2	8.5
Del Valle COW (DCO)				
Salinity (EC), $\mu\text{S/cm}$	530	532	<1	532
Temperature, $^{\circ}\text{C}$	14.1	13.9	-2	13.9
Turbidity, NTU	2.6	3.4	+ 31	3.2
pH	7.5	7.5	-1	7.5

Vallecitos (VSB)				
Salinity (EC), $\mu\text{S}/\text{cm}$	549	559	1	554
Temperature, $^{\circ}\text{C}$	22.1	21.4	-4	21.7
Turbidity, NTU	12.4	6.6	-47	8.1
pH	8.3	8.0	-3	8.2

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