SWP Water Quality Summary

December 18, 2001

Automated Station Data

Automated sampling stations provide real time data by continuously measuring water quality conditions in the Aqueduct.

Water Quality Parameter 11/13/01 to 12/18/01		NBA at Barker Slough PP KG000000	Harvey O. Banks Pumping Plant KA000331	Check 13 at O'Neill Forebay Outlet KA007089	Check 29 Near Highway 119 KA024454	MWD Pipeline at Castaic Lake CA000000	Devil Canyon Power Plant KA041288
Turbidity (NTU)	average	56	18	6	7	1	2
	maximum	141	60	9	12	1	3
	minimum	33	5	3	4	1	1
Conductivity	average	235	565	594	585	555	586
(microSiemens/cm)	maximum	280	673	679	657	562	692
	minimum	140	491	527	536	539	553
Calculated TDS (mg/l)	average	115	320	338	338	332	335
	maximum	167	381	386	380	336	393
	minimum	87	278	301	310	322	317

Grab Sample Data of Special Interest

Laboratory analyses of water quality constituents, including inorganic compounds, are conducted from monthly water quality samples collected throughout the SWP.

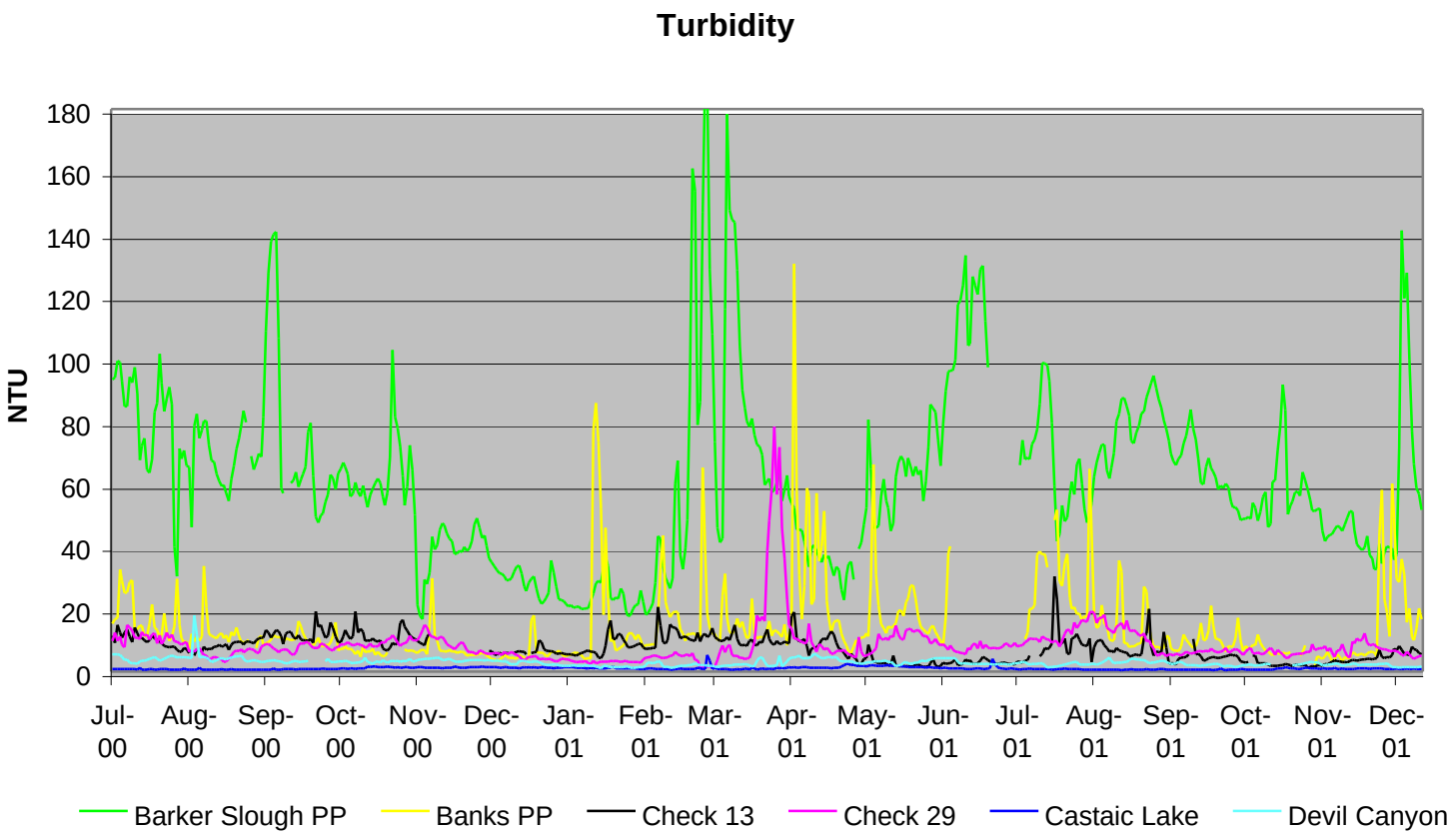
Water Quality Parameter November 2001 [1]	units	objectives	Barker Slough Pumping Plant	Harvey O. Banks Pumping Plant	Check 13 at O'Neill Forebay Outlet	Check 29 Near Highway 119	Devil Canyon Power Plant
Bromide	mg/l	0.05 [3]	0.04	0.3	0.34	0.35	0.4
Hardness	mg/l	180/110 [5]	84	103	105	108	117
Total Alkalinity	mg/l as $caco_3$	none	83	76	80	79	84
Total Organic Carbon [2]	mg/l	3.0 [3]	3.1	2.5	2.6	2.5	2.4
Total Dissolved Solids	mg/l	440/220 [5] /150 [4]	171	308	330	333	336

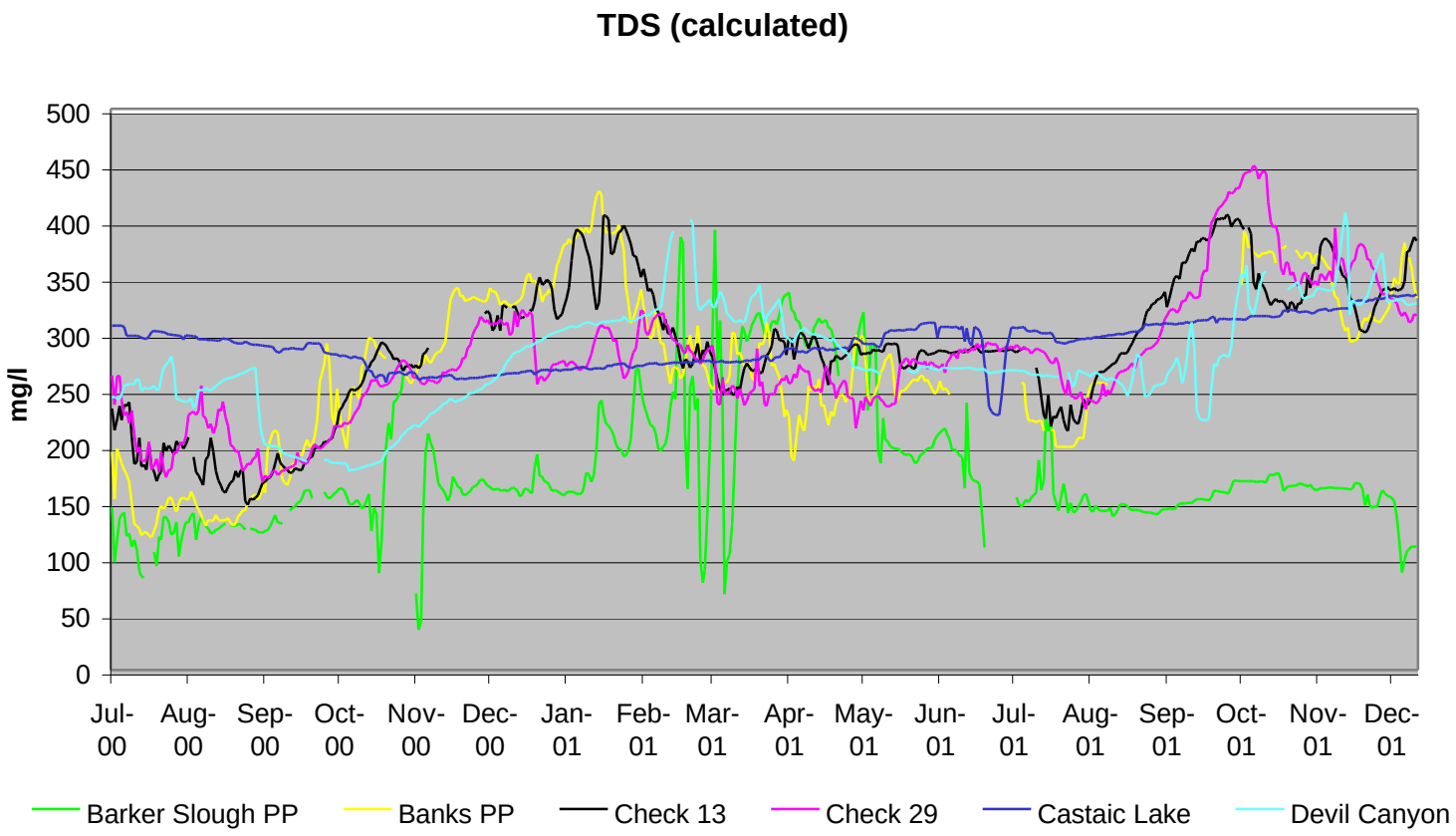
[1] latest analyses available n/a = not available [2] Total Organic Carbon analyzed by wet oxidation method

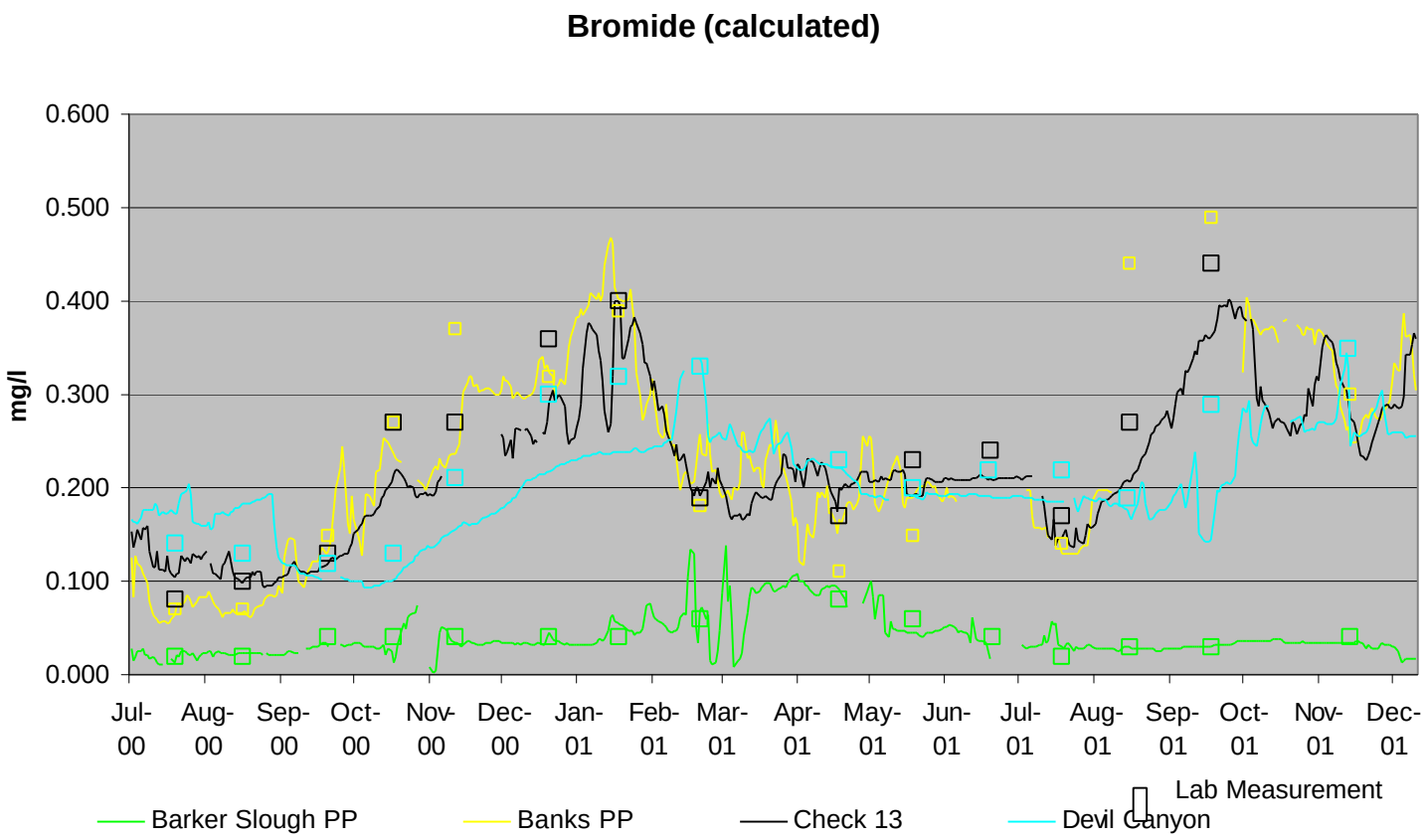
[3] CALFED/CUWA [4] CUWA Proposed [5] Article 19 (monthly/ten year averages)

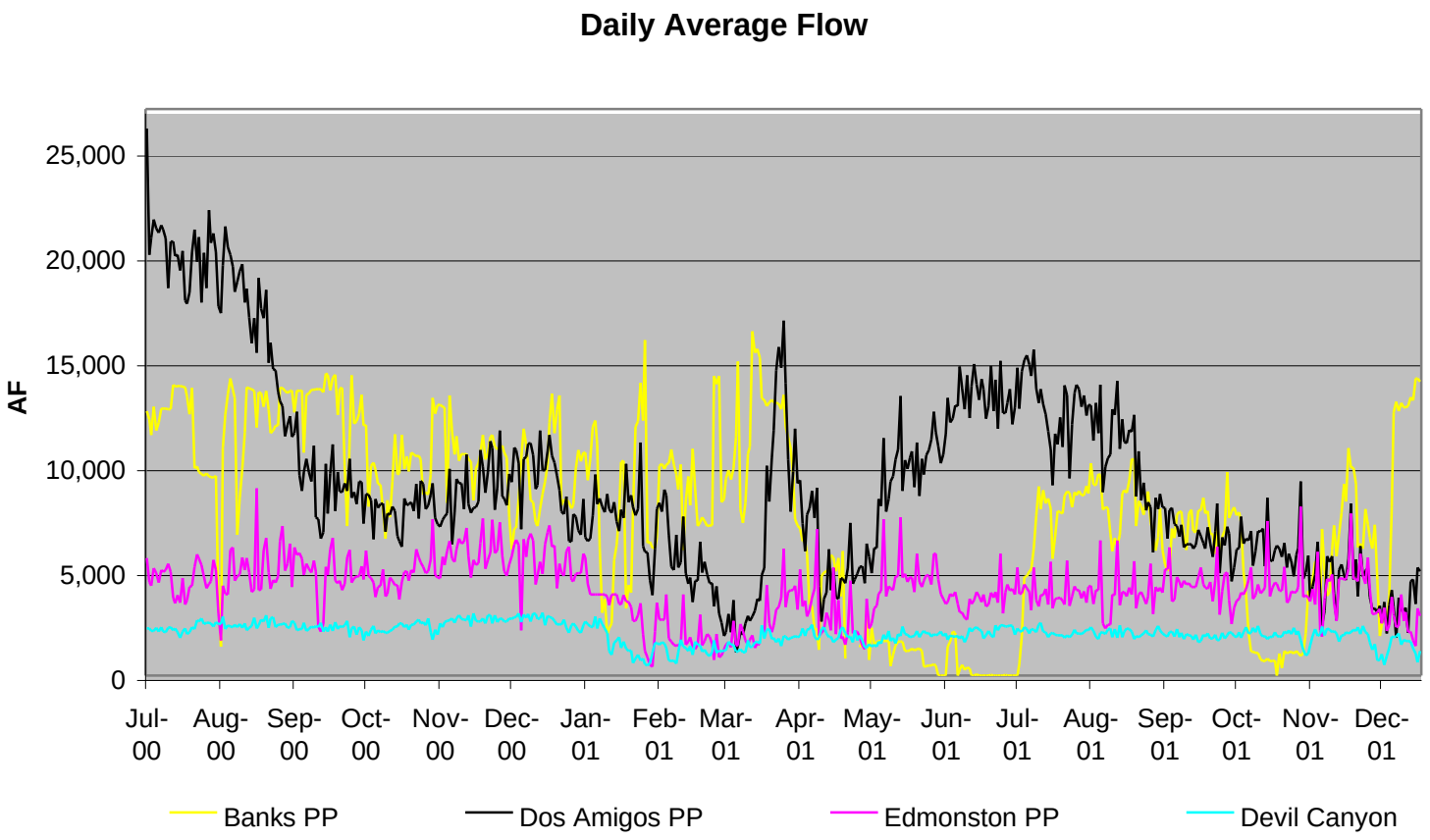
Water Quality Highlights

For more information refer to: http://wwwomwg.water.ca.gov and http://wwwdpla.ca.gov/supply/sampling/mwg/main.htm


Turbidity
NTU
180
160
140
120
100
80
60
40
20
0
Jul-00
Aug-00
Sep-00
Oct-00
Nov-00
Dec-00
Jan-01
Feb-01
Mar-01
Apr-01
May-01
Jun-01
Jul-01
Aug-01
Sep-01
Oct-01
Nov-01
Dec-01
Barker Slough PP
Banks PP
Check 13
Check 29
Castaic Lake
Devil Canyon


TDS (calculated)
mg/l
500
450
400
350
300
250
200
150
100
50
0
Jul-00
Aug-00
Sep-00
Oct-00
Nov-00
Dec-00
Jan-01
Feb-01
Mar-01
Apr-01
May-01
Jun-01
Jul-01
Aug-01
Sep-01
Oct-01
Nov-01
Dec-01
Barker Slough PP
Banks PP
Check 13
Check 29
Castaic Lake
Devil Canyon


Bromide (calculated)
mg/l
0.600
0.500
0.400
0.300
0.200
0.100
0.000
Jul-00
Aug-00
Sep-00
Oct-00
Nov-00
Dec-00
Jan-01
Feb-01
Mar-01
Apr-01
May-01
Jun-01
Jul-01
Aug-01
Sep-01
Oct-01
Nov-01
Dec-01
Lab Measurement
Barker Slough PP
Banks PP
Check 13
Devil Canyon

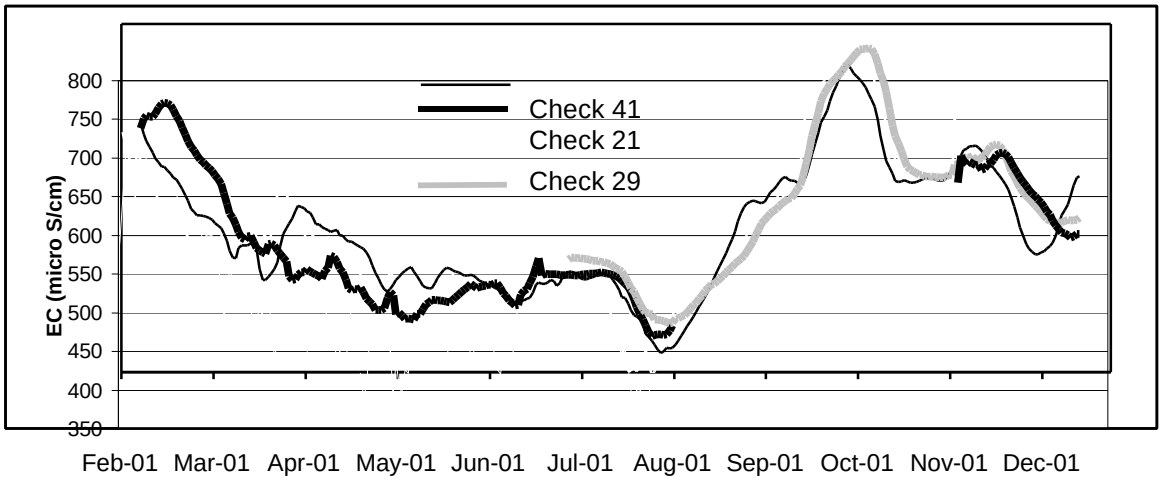

Daily Average Flow
AF
25,000
20,000
15,000
10,000
5,000
0
Jul-00
Aug-00
Sep-00
Oct-00
Nov-00
Dec-00
Jan-01
Feb-01
Mar-01
Apr-01
May-01
Jun-01
Jul-01
Aug-01
Sep-01
Oct-01
Nov-01
Dec-01
Banks PP
Dos Amigos PP
Edmonston PP
Devil Canyon

California Aqueduct Non-Project Pump-in Summary

December 2001

California Aqueduct Water Quality, Pump-in Water Quality, and Monthly Volumes (November)

mg/L	Check 21	Semitropic	KWB	Check 29	Check 41
Volume (af)	123,447	14,364	230	126,178	126,339
Arsenic	0.003	0.014	0.005	0.004	0.004
Bromide	0.39	0.28	0.2	0.35	0.34
Chromium VI	<0.0002	0.005	0.0016	0.001	N.A. 1/
EC (?S/cm)	651	549	374	614	605
Nitrate	2.4	5.8	7.1	2.6	2.1
Sulfate	46	91	39	54	48
TDS	378	319	210	333	329
DOC (wet ox)	2.7	0.4	1.6	2.3	2.5

1/ Not available at the time of this report.

Seven Day Moving Average Conductivity in the California