

Compliance Standards

for the Sacramento - San Joaquin Delta and Suisun Marsh

Tuesday, January 08, 2013

Criteria	Standard	Status
Flow/Operational		
% of inflow diverted	65 %	7 %
NDOI, monthly average *	>= 6,000 cfs	35,865 cfs
NDOI, 7 day average*	>= 4,800 cfs	33,811 cfs

Water Quality

Days @ CCWD PP#1 w/ chlorides <= 150 mg/l	190 days	0 days
Export Areas for SWP, CVP, CCWD, et al	<= 250 mg/l Cl	63 mg/l
Maximum 30 day running average of mean daily EC at:		
Vernalis	<= 1.0 mS/cm	0.7 mS/cm
Brandt Bridge	<= 1.0 mS/cm	0.7 mS/cm
Old River Near Tracy	<= 1.0 mS/cm	0.9 mS/cm
Old River Near Middle River	<= 1.0 mS/cm	0.7 mS/cm

SUISUN MARSH:

Suisun Marsh Salinity Control Gates :	3 Open / 0 Closed / 0 Full Tide Open
Flashboard Status : In	
Boat Lock Status : Open	

California Hydrologic Conditions: (California Cooperative Snow Surveys Forecast, December 1, 2012)

Previous Month's Index (8RI for Apr.): 3.701 MAF

Water Year Type: Above Normal

Sacramento valley water year type index (40/30/30) @ 50%: 8.0 MAF (Above Normal)

San Joaquin valley water year type index (60/20/20) @ 75%: 1.9 MAF (Critical)

Electrical Conductivity (EC) in milliSiemens per Centimeter.
 Chlorides (Cl) in milligrams per liter
 mht - mean high tides
 md - mean daily
 14 dm - fourteen day running mean
 28 dm - twenty-eight day running mean
 NR - No Record
 NC - Average not computed due to insufficient data.
 BR : Below Rating
 e - estimated value

Montezuma Slough Gate Operation:
 Number of gates operating at either
 Open, Closed, or Full Tide Open
 Flashboard Status : In, Out, or Modified In
 Boat Lock Status : Open or Closed

Coordinated Operation Agreement Delta Status:
 c = excess Delta conditions
 b = balanced Delta cond. w/ no storage withdrawal
 s = balanced Delta cond. w/ storage withdrawal
 Excess Delta conditions with restrictions:
 f = fish concerns
 r = E/I ratio concerns

* NDOI, Rio Vista & Vernalis Flows:
 - Monthly average is progressive daily mean.
 - 7 day average is progressive daily mean for the first six days of the month.

Delta Water Quality Conditions

Date	Antioch Tides		Net Delta Outflow Index cfs	Martinez mdEC	Port Chicago		Mallard mdEC	Chippis Island		Collinsville	
	High	Half			mdEC	14dm		mdEC	14dm	mdEC	14dm
12/10/2012	6.53	4.19	48,927	8.00	1.51	10.22	0.52	0.37	5.91	0.17	3.22
12/11/2012	6.96	4.52	36,007	8.93	1.94	9.06	0.55	0.39	5.08	0.18	2.71
12/12/2012	7.28	4.83	29,173	9.68	2.47	7.84	0.63	0.46	4.15	0.19	2.15
12/13/2012	7.11	4.69	25,193	9.13	2.19	6.56	0.58	0.41	3.24	0.19	1.63
12/14/2012	7.10	4.73	21,763	9.41	2.50	5.26	0.61	0.44	2.25	0.20	1.06
12/15/2012	6.58	4.42	19,428	8.46	2.24	4.12	0.57	0.40	1.48	0.20	0.65
12/16/2012	6.28	4.37	17,615	8.31	2.25	3.10	0.52	0.37	0.83	0.21	0.37
12/17/2012	6.07	4.43	15,290	9.10	2.71	2.61	0.58	0.42	0.58	0.23	0.28
12/18/2012	5.75	4.19	13,865	7.47	2.07	2.31	0.53	0.37	0.48	0.24	0.23
12/19/2012	5.50	3.70	23,470	7.09	1.51	2.12	0.44	0.30	0.42	0.24	0.21
12/20/2012	5.70	3.89	29,077	8.57	1.98	2.07	0.43	0.30	0.39	0.24	0.20
12/21/2012	6.44	4.45	29,468	11.11	3.94	2.20	0.63	0.46	0.39	0.24	0.20
12/22/2012	6.81	4.65	31,144	10.78	4.34	2.39	1.01	0.76	0.42	0.22	0.21
12/23/2012	6.84	4.80	40,673	-- NR	3.76	2.53	0.84	0.62	0.43	0.20	0.21
12/24/2012	6.60	4.64	59,057	6.28	1.30	2.51	0.37	0.25	0.42	0.19	0.21
12/25/2012	6.59	4.60	67,009	3.99	0.52	2.41	0.34	0.23	0.41	0.20	0.21
12/26/2012	6.94	5.00	86,924	2.44	0.39	2.26	0.31	0.21	0.40	0.16	0.21
12/27/2012	6.46	4.52	106,260	1.06	0.29	2.13	0.28	0.19	0.38	0.14	0.21
12/28/2012	6.36	4.46	95,168	1.27	0.26	1.97	0.26	0.17	0.36	0.14	0.20
12/29/2012	6.41	4.50	80,868	1.65	0.25	1.83	0.24	0.15	0.34	0.15	0.20
12/30/2012	6.24	4.50	66,670	1.46	0.23	1.68	0.22	0.14	0.33	0.16	0.20
12/31/2012	5.86	4.26	57,654	1.33	0.22	1.50	0.22	0.14	0.31	0.16	0.19
01/01/2013	5.35	4.05	50,241	1.86	0.21	1.37	0.21	0.14	0.29	0.16	0.19
01/02/2013	5.25	3.92	41,938	3.17	0.21	1.28	0.21	0.13	0.28	0.18	0.18
01/03/2013	5.35	3.79	35,392	4.79	0.48	1.17	0.20	0.13	0.27	0.18	0.18
01/04/2013	5.37	3.61	34,018	6.19	0.90	0.95	0.20	0.13	0.24	0.19	0.17
01/05/2013	5.77	3.73	31,677	8.37	1.94	0.78	0.25	0.16	0.20	0.20	0.17
01/06/2013	6.17	3.94	31,559	10.60	2.92	0.72	0.44	0.30	0.18	0.21	0.17
01/07/2013	6.26	3.91	31,187	11.01	3.41	0.87	0.50	0.35	0.18	0.21	0.17
01/08/2013	6.22	3.83	30,910	10.51	3.00	1.05	0.49	0.34	0.19	0.22	0.18

Antioch Tides measured in feet above mean sea level.

Net Delta Outflow Index calculated from equation as specified in D-1641, revised June 1995.

Chippis Island EC calculated from measurements recorded at Mallard Slough.

Electrical Conductivity (EC) units: milliSiemens per Centimeter

md : mean daily

14dm : fourteen day running mean

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e - estimated value

Delta Water Quality Conditions

Date	Antioch		Jersey Point		Emmaton		Cache Slough	Good Year Slough	Sunrise Club	Volanti Slough	Beldon Landing	Collinsville
	mdEC	14mdEC	mdEC	14mdEC	mdEC	14mdEC	mdEC	mhtEC	mhtEC	mhtEC	mhtEC	mhtEC
12/10/2012	0.70	3.42	0.46	1.55	0.19	0.75	0.68	6.49	5.11	5.52	5.02	0.16
12/11/2012	0.62	3.10	0.44	1.45	0.19	0.67	0.71	4.62	5.27	4.96	3.85	0.18
12/12/2012	0.55	2.70	0.45	1.32	0.19	0.53	0.73	3.28	4.31	3.84	3.92	0.22
12/13/2012	0.52	2.28	0.42	1.17	0.20	0.41	0.76	3.01	4.03	3.62	3.59	0.19
12/14/2012	0.48	1.80	0.40	0.99	0.21	0.27	0.78	2.91	3.42	3.60	3.77	0.19
12/15/2012	0.46	1.39	0.38	0.84	0.22	0.22	0.80	3.28	3.50	3.71	3.94	0.20
12/16/2012	0.43	1.06	0.37	0.68	0.23	0.20	0.81	3.81	3.71	3.82	3.99	0.21
12/17/2012	0.42	0.85	0.37	0.59	0.23	0.19	0.84	3.81	3.69	3.40	3.70	0.24
12/18/2012	0.41	0.73	0.36	0.53	0.23	0.19	0.80	5.32	3.98	3.92	3.97	0.24
12/19/2012	0.41	0.65	0.35	0.48	0.23	0.20	0.72	7.64	4.26	4.21	4.15	0.24
12/20/2012	0.40	0.58	0.33	0.44	0.22	0.20	0.74	7.20	4.20	4.15	4.12	0.24
12/21/2012	0.38	0.54	0.33	0.41	0.21	0.21	0.76	4.16	3.58	3.67	3.57	0.25
12/22/2012	0.37	0.50	0.32	0.39	0.21	0.21	0.50	3.46	2.60	3.63	3.34	0.21
12/23/2012	0.38	0.47	0.31	0.38	0.21	0.21	0.28	4.10	1.67	3.51	3.39	0.19
12/24/2012	0.36	0.44	0.28	0.37	0.21	0.21	0.26	4.32	0.50	3.80	3.59	0.18
12/25/2012	0.33	0.42	0.27	0.35	0.19	0.21	0.38	4.42	3.32	3.67	3.42	0.20
12/26/2012	0.31	0.40	0.25	0.34	0.16	0.21	0.27	3.29	0.87	3.29	3.40	0.16
12/27/2012	0.28	0.39	0.22	0.33	0.16	0.21	0.42	3.91	1.93	2.86	2.87	0.13
12/28/2012	0.26	0.37	0.22	0.31	0.15	0.20	0.52	3.93	3.10	2.65	2.59	0.14
12/29/2012	0.24	0.36	0.20	0.30	0.16	0.20	0.59	4.30	2.79	2.50	2.16	0.14
12/30/2012	0.23	0.34	0.20	0.29	0.16	0.19	0.65	3.91	2.51	2.36	2.03	0.16
12/31/2012	0.22	0.33	0.19	0.27	0.15	0.19	0.71	4.21	2.38	2.23	1.79	0.16
01/01/2013	0.22	0.31	0.20	0.26	0.15	0.18	0.74	4.70	2.64	2.11	1.66	0.16
01/02/2013	0.22	0.30	0.20	0.25	0.16	0.18	0.78	4.80	2.53	2.14	1.73	0.18
01/03/2013	0.22	0.29	0.20	0.24	0.17	0.18	0.79	5.22	2.58	2.21	1.72	0.18
01/04/2013	0.22	0.27	0.20	0.23	0.18	0.17	0.79	5.92	2.89	2.24	1.66	0.19
01/05/2013	0.22	0.26	0.20	0.22	0.19	0.17	0.80	5.38	2.60	2.22	1.72	0.20
01/06/2013	0.22	0.25	0.20	0.22	0.20	0.17	0.79	4.81	2.25	2.12	1.73	0.20
01/07/2013	0.22	0.24	0.21	0.21	0.20	0.17	0.69	4.30	2.30	2.11	1.77	0.21
01/08/2013	0.24	0.24	0.22	0.21	0.20	0.17	0.70	4.15	2.20	2.12	1.85	0.21

Electrical Conductivity (EC) units: milliSiemens per Centimeter

Chloride (Cl) units: milligrams per liter

mht : mean high tides

md : mean daily

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e : estimated value

Delta Water Quality Conditions

Date	Bethel Island mdEC	Farrar Park mdEC	Holland Tract mdEC	Bacon Island mdEC	Contra Costa mdEC	Clifton Court mdEC	Tracy Pumping Plant mdEC	Antioch mdCl	Bacon Island mdCl	Contra Costa mdCl	Delta Status
12/10/2012	0.69	1.04	0.59	0.60	0.65	0.56	0.58	154	118	130	f
12/11/2012	0.57	0.97	0.55	0.56	0.66	0.52	0.58	127	109	135	c
12/12/2012	0.49	0.88	0.52	0.51	0.65	0.48	0.54	105	94	135	c
12/13/2012	0.46	0.80	0.47	0.47	0.65	0.45	0.53	96	84	135	c
12/14/2012	0.43	0.76	0.44	0.43	0.66	0.45	0.52	82	75	137	c
12/15/2012	0.41	0.70	0.40	0.40	0.64	0.42	0.52	76	66	133	c
12/16/2012	0.38	0.67	0.37	0.37	0.57	0.41	0.50	68	60	129	c
12/17/2012	0.38	0.62	0.37	0.35	0.64	0.39	0.47	63	54	136	c
12/18/2012	0.38	0.60	0.36	0.34	0.63	0.38	0.48	62	49	138	c
12/19/2012	0.39	0.59	0.34	0.33	0.72	0.44	0.46	61	48	148	f
12/20/2012	0.37	0.56	0.33	0.33	0.73	0.56	0.60	56	48	172	f
12/21/2012	0.36	0.54	0.33	0.33	0.73	0.44	0.63	51	48	162	f
12/22/2012	0.35	0.52	0.32	0.33	0.70	0.52	0.67	49	47	162 e	f
12/23/2012	0.34	0.51	0.31	0.33	0.58	0.62	0.72	50	47	162 e	f
12/24/2012	0.35	0.52	0.30	0.33	0.52	0.59	0.78	44	47	162 e	f
12/25/2012	0.34	0.49	0.30	0.33	0.55	0.64	0.80	35	48	162 e	f
12/26/2012	0.33	0.49	0.30	0.33	0.51	0.66	0.78	28	47	106	f
12/27/2012	0.34	0.46	0.29	0.33	0.48	0.63	0.71	19	48	104	f
12/28/2012	0.30	0.44	0.29	0.34	0.47	0.49	0.58	12	50	80	f
12/29/2012	0.28	0.42	0.29	0.34	0.45	0.48	0.53	6	51	80 e	f
12/30/2012	0.27	0.41	0.30	0.34	0.44	0.46	0.51	3	50	80 e	f
12/31/2012	0.26	0.38	0.29	0.34	0.43	0.45	0.49	-- BR	51	75	f
01/01/2013	0.25	0.37	0.29	0.34	0.42	0.45	0.50	-- BR	51	75 e	f
01/02/2013	0.24	0.36	0.29	0.34	0.42	0.46	0.47	-- BR	51	70	f
01/03/2013	0.24	NR	0.29	0.33	0.42	0.47	0.49	-- BR	48	68	f
01/04/2013	0.24	NR	0.29	0.32	0.43	0.48	0.50	-- BR	46	67	f
01/05/2013	0.24	NR	0.28	0.32	0.43	0.48	0.50	-- BR	45	67 e	f
01/06/2013	0.25	NR	0.28	0.32	0.43	0.51	0.55	-- BR	45	67 e	f
01/07/2013	0.25	NR	0.27	0.31	0.42	0.49	0.54	-- BR	43	65	f
01/08/2013	0.25	0.34	0.27	0.31	0.42	0.53	0.75	5	42	63	f

Electrical Conductivity (EC) units: millisiemens per centimeter

Chloride (Cl) units: milligrams per liter

md : mean daily

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e : estimated value

Antioch and Bacon Island mdCl are calculated from the respective mdEC values.

Coordinated Operation Agreement Delta Status:

c = excess Delta conditions

b = balanced Delta cond. w/ no storage withdrawal

s = balanced Delta cond. w/ storage withdrawal

Excess Delta conditions with restrictions:

f = fish concerns

r = E/I ratio concerns

Delta Water Quality Conditions

South Delta Stations

Date	Vernalis		Brandt Bridge		Old River Near Tracy		Old River Near Middle River	
	md EC	30 day avg	md EC	30 day avg	md EC	30 day avg	md EC	30 day avg
12/10/2012	0.75	0.68	0.71	0.73	0.89	0.87	0.77	0.72
12/11/2012	0.78	0.68	0.72	0.73	0.89	0.87	0.78	0.73
12/12/2012	0.79	0.68	0.70	0.73	0.93	0.87	0.81	0.73
12/13/2012	0.80	0.68	0.67	0.72	0.94	0.87	0.81	0.73
12/14/2012	0.81	0.68	0.66	0.72	0.93	0.87	0.83	0.73
12/15/2012	0.82	0.69	0.65	0.72	0.94	0.87	0.84	0.73
12/16/2012	0.83	0.69	0.65	0.71	0.97	0.87	0.86	0.74
12/17/2012	0.85	0.70	0.65	0.71	1.01	0.87	0.87	0.74
12/18/2012	0.84	0.71	0.64	0.70	1.03	0.88	0.88	0.75
12/19/2012	0.83	0.71	0.65	0.70	1.06	0.89	0.90	0.75
12/20/2012	0.83	0.72	0.77	0.70	1.13	0.90	0.86	0.76
12/21/2012	0.83	0.72	0.86	0.71	1.14	0.91	0.88	0.76
12/22/2012	0.83	0.73	0.88	0.71	1.10	0.92	0.87	0.77
12/23/2012	0.78	0.74	0.87	0.71	1.05	0.92	0.86	0.77
12/24/2012	0.67	0.74	0.86	0.72	1.02	0.92	0.85	0.78
12/25/2012	0.45	0.73	0.81	0.72	1.00	0.92	0.72	0.78
12/26/2012	0.41	0.72	0.57	0.72	0.89	0.92	0.43	0.77
12/27/2012	0.40	0.71	0.43	0.70	0.72	0.92	0.44	0.76
12/28/2012	0.35	0.69	0.45	0.69	0.63	0.91	0.43	0.75
12/29/2012	0.39	0.68	0.38	0.68	0.61	0.90	0.39	0.73
12/30/2012	0.41	0.67	0.43	0.67	0.58	0.90	0.42	0.72
12/31/2012	0.49	0.67	0.44	0.66	0.58	0.89	0.45	0.71
01/01/2013	0.57	0.67	0.49	0.66	0.64	0.88	0.52	0.71
01/02/2013	0.62	0.67	0.58	0.65	0.71	0.88	0.59	0.70
01/03/2013	0.68	0.67	0.63	0.65	0.85	0.88	0.65	0.70
01/04/2013	0.72	0.67	0.68	0.65	0.95	0.89	0.72	0.71
01/05/2013	0.74	0.68	0.73	0.65	1.08	0.90	0.75	0.71
01/06/2013	0.74	0.68	0.76	0.66	1.12	0.90	0.78	0.71
01/07/2013	0.68	0.68	0.80	0.66	1.10	0.91	0.79	0.72
01/08/2013	0.68	0.68	0.80	0.66	1.01	0.92	0.73	0.72

Electrical Conductivity (EC) units: milliSiemens per Centimeter

md : mean daily

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e : estimated value

Compliance Standards

for the Sacramento - San Joaquin Delta and Suisun Marsh

Tuesday, January 15, 2013

Criteria	Standard	Status
Flow/Operational		
% of inflow diverted	65 %	17 %
NDOI, monthly average *	>= 6,000 cfs	30,052 cfs
NDOI, 7 day average*	>= 4,800 cfs	23,408 cfs

Water Quality

Days @ CCWD PP#1 w/ chlorides <= 150 mg/l	190 days	15 days
Export Areas for SWP, CVP, CCWD, et al	<= 250 mg/l Cl	47 mg/l
Maximum 30 day running average of mean daily EC at:		
Vernalis	<=1.0 mS/cm	0.7 mS/cm
Brandt Bridge	<= 1.0 mS/cm	0.7 mS/cm
Old River Near Tracy	<=1.0 mS/cm	0.9 mS/cm
Old River Near Middle River	<=1.0 mS/cm	0.7 mS/cm

SUISUN MARSH:

Suisun Marsh Salinity Control Gates :	3 Open / 0 Closed / 0 Full Tide Open
Flashboard Status : In	
Boat Lock Status : Open	

California Hydrologic Conditions: (California Cooperative Snow Surveys Forecast, January 1, 2013)

Previous Month's Index (8RI for Dec.): 3.785 MAF

Water Year Type: Wet

Sacramento valley water year type index (40/30/30) @ 50%:9.3 MAF (Wet)

San Joaquin valley water year type index (60/20/20) @ 75%: 2.6 MAF (Below Normal)

Electrical Conductivity (EC) in milliSiemens per Centimeter.

Chlorides (Cl) in milligrams per liter

mht - mean high tides

md - mean daily

14 dm - fourteen day running mean

28 dm - twenty-eight day running mean

NR - No Record

NC - Average not computed due to insufficient data.

BR : Below Rating

e - estimated value

Montezuma Slough Gate Operation:

Number of gates operating at either

Open, Closed, or Full Tide Open

Flashboard Status : In, Out, or Modified In

Boat Lock Status : Open or Closed

Coordinated Operation Agreement Delta Status:

c = excess Delta conditions

b = balanced Delta cond. w/ no storage withdrawal

s = balanced Delta cond. w/ storage withdrawal

Excess Delta conditions with restrictions:

f = fish concerns

r = E/I ratio concerns

* NDOI, Rio Vista & Vernalis Flows:

- Monthly average is progressive daily mean,

- 7 day average is progressive daily mean for the first six days of the month.

Delta Water Quality Conditions

Date	Antioch Tides		Net Delta Outflow Index cfs	Martinez mdEC	Port Chicago		Mallard mdEC	Chippys Island		Collinsville	
	High	Half			mdEC	14dm		mdEC	14dm	mdEC	14dm
12/17/2012	6.07	4.43	15,290	9.10	2.71	2.61	0.58	0.42	0.58	0.23	0.28
12/18/2012	5.75	4.19	13,865	7.47	2.07	2.31	0.53	0.37	0.48	0.24	0.23
12/19/2012	5.50	3.70	23,470	7.09	1.51	2.12	0.44	0.30	0.42	0.24	0.21
12/20/2012	5.70	3.89	29,077	8.57	1.98	2.07	0.43	0.30	0.39	0.24	0.20
12/21/2012	6.44	4.45	29,468	11.11	3.94	2.20	0.63	0.46	0.39	0.24	0.20
12/22/2012	6.81	4.65	31,144	10.78	4.34	2.39	1.01	0.76	0.42	0.22	0.21
12/23/2012	6.84	4.80	40,673	-- NR	3.76	2.53	0.84	0.62	0.43	0.20	0.21
12/24/2012	6.60	4.64	59,057	6.28	1.30	2.51	0.37	0.25	0.42	0.19	0.21
12/25/2012	6.59	4.60	67,009	3.99	0.52	2.41	0.34	0.23	0.41	0.20	0.21
12/26/2012	6.94	5.00	86,924	2.44	0.39	2.26	0.31	0.21	0.40	0.16	0.21
12/27/2012	6.46	4.52	106,260	1.06	0.29	2.13	0.28	0.19	0.38	0.14	0.21
12/28/2012	6.36	4.46	95,168	1.27	0.26	1.97	0.26	0.17	0.36	0.14	0.20
12/29/2012	6.41	4.50	80,868	1.65	0.25	1.83	0.24	0.15	0.34	0.15	0.20
12/30/2012	6.24	4.50	66,670	1.46	0.23	1.68	0.22	0.14	0.33	0.16	0.20
12/31/2012	5.86	4.26	57,654	1.33	0.22	1.50	0.22	0.14	0.31	0.16	0.19
01/01/2013	5.35	4.05	50,241	1.86	0.21	1.37	0.21	0.14	0.29	0.16	0.19
01/02/2013	5.25	3.92	41,938	3.17	0.21	1.28	0.21	0.13	0.28	0.18	0.18
01/03/2013	5.35	3.79	35,392	4.79	0.48	1.17	0.20	0.13	0.27	0.18	0.18
01/04/2013	5.37	3.61	34,018	6.19	0.90	0.95	0.20	0.13	0.24	0.19	0.17
01/05/2013	5.77	3.73	31,677	8.37	1.94	0.78	0.25	0.16	0.20	0.20	0.17
01/06/2013	6.17	3.94	31,559	10.60	2.92	0.72	0.44	0.30	0.18	0.21	0.17
01/07/2013	6.26	3.91	31,187	11.01	3.41	0.87	0.50	0.35	0.18	0.21	0.17
01/08/2013	6.22	3.83	30,910	10.51	3.00	1.05	0.49	0.34	0.19	0.22	0.18
01/09/2013	6.57	4.09	30,277	10.99	3.53	1.28	0.69	0.50	0.21	0.23	0.18
01/10/2013	6.71	4.24	29,072	10.64	3.40	1.50	0.64	0.46	0.23	0.24	0.19
01/11/2013	6.36	3.95	24,557	8.91	2.39	1.65	0.48	0.33	0.24	0.24	0.19
01/12/2013	6.26	3.89	20,798	8.64	2.20	1.79	0.46	0.32	0.26	0.23	0.20
01/13/2013	6.03	3.88	19,714	8.70	2.14	1.92	0.45	0.31	0.27	0.23	0.20
01/14/2013	5.44	3.60	20,221	7.76	1.54	2.02	0.37	0.26	0.28	0.23	0.21
01/15/2013	5.06	3.50	19,216	7.16	1.48	2.11	0.35	0.24	0.28	0.23	0.21

Antioch Tides measured in feet above mean sea level.

Net Delta Outflow Index calculated from equation as specified in D-1641, revised June 1995.

Chippys Island EC calculated from measurements recorded at Mallard Slough.

Electrical Conductivity (EC) units: milliSiemens per Centimeter

md : mean daily

14dm : fourteen day running mean

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e - estimated value

Delta Water Quality Conditions

Date	Antioch		Jersey Point		Emmaton		Cache Slough	Good Year Slough	Sunrise Club	Volanti Slough	Beldon Landing	Collinsville
	mdEC	14mdEC	mdEC	14mdEC	mdEC	14mdEC	mdEC	mhtEC	mhtEC	mhtEC	mhtEC	mhtEC
12/17/2012	0.42	0.85	0.37	0.59	0.23	0.19	0.84	3.81	3.69	3.40	3.70	0.24
12/18/2012	0.41	0.73	0.36	0.53	0.23	0.19	0.80	5.32	3.98	3.92	3.97	0.24
12/19/2012	0.41	0.65	0.35	0.48	0.23	0.20	0.72	7.64	4.26	4.21	4.15	0.24
12/20/2012	0.40	0.58	0.33	0.44	0.22	0.20	0.74	7.20	4.20	4.15	4.12	0.24
12/21/2012	0.38	0.54	0.33	0.41	0.21	0.21	0.76	4.16	3.58	3.67	3.57	0.25
12/22/2012	0.37	0.50	0.32	0.39	0.21	0.21	0.50	3.46	2.60	3.63	3.34	0.21
12/23/2012	0.38	0.47	0.31	0.38	0.21	0.21	0.28	4.10	1.67	3.51	3.39	0.19
12/24/2012	0.36	0.44	0.28	0.37	0.21	0.21	0.26	4.32	0.50	3.80	3.59	0.18
12/25/2012	0.33	0.42	0.27	0.35	0.19	0.21	0.38	4.42	3.32	3.67	3.42	0.20
12/26/2012	0.31	0.40	0.25	0.34	0.16	0.21	0.27	3.29	0.87	3.29	3.40	0.16
12/27/2012	0.28	0.39	0.22	0.33	0.16	0.21	0.42	3.91	1.93	2.86	2.87	0.13
12/28/2012	0.26	0.37	0.22	0.31	0.15	0.20	0.52	3.93	3.10	2.65	2.59	0.14
12/29/2012	0.24	0.36	0.20	0.30	0.16	0.20	0.59	4.30	2.79	2.50	2.16	0.14
12/30/2012	0.23	0.34	0.20	0.29	0.16	0.19	0.65	3.91	2.51	2.36	2.03	0.16
12/31/2012	0.22	0.33	0.19	0.27	0.15	0.19	0.71	4.21	2.38	2.23	1.79	0.16
01/01/2013	0.22	0.31	0.20	0.26	0.15	0.18	0.74	4.70	2.64	2.11	1.66	0.16
01/02/2013	0.22	0.30	0.20	0.25	0.16	0.18	0.78	4.80	2.53	2.14	1.73	0.18
01/03/2013	0.22	0.29	0.20	0.24	0.17	0.18	0.79	5.22	2.58	2.21	1.72	0.18
01/04/2013	0.22	0.27	0.20	0.23	0.18	0.17	0.79	5.92	2.89	2.24	1.66	0.19
01/05/2013	0.22	0.26	0.20	0.22	0.19	0.17	0.80	5.38	2.60	2.22	1.72	0.20
01/06/2013	0.22	0.25	0.20	0.22	0.20	0.17	0.79	4.81	2.25	2.12	1.73	0.20
01/07/2013	0.22	0.24	0.21	0.21	0.20	0.17	0.69	4.30	2.30	2.11	1.77	0.21
01/08/2013	0.24	0.24	0.22	0.21	0.20	0.17	0.70	4.15	2.20	2.12	1.85	0.21
01/09/2013	0.24	0.23	0.22	0.21	0.22	0.18	0.73	4.14	2.32	2.19	1.95	0.22
01/10/2013	0.25	0.23	0.22	0.21	0.22	0.18	0.77	3.42	e	2.17	2.01	0.25
01/11/2013	0.25	0.23	0.22	0.21	0.22	0.18	0.80	3.32	2.25	2.27	2.05	0.24
01/12/2013	0.25	0.23	0.23	0.21	0.22	0.19	0.81	3.00	2.16	2.37	2.15	0.23
01/13/2013	0.25	0.23	0.23	0.21	0.22	0.19	0.82	2.94	2.16	2.49	2.21	0.23
01/14/2013	0.25	0.23	0.23	0.21	0.21	0.20	0.79	3.27	2.24	2.42	2.25	0.23
01/15/2013	0.26	0.23	0.23	0.21	0.21	0.20	0.73	3.75	2.31	2.57	2.38	0.23

Electrical Conductivity (EC) units: milliSiemens per Centimeter

Chloride (Cl) units: milligrams per liter

mht : mean high tides

md : mean daily

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e : estimated value

Delta Water Quality Conditions

Date	Bethel Island mdEC	Farrar Park mdEC	Holland Tract mdEC	Bacon Island mdEC	Contra Costa mdEC	Clifton Court mdEC	Tracy Pumping Plant mdEC	Antioch mdCI	Bacon Island mdCI	Contra Costa mdCI	Delta Status
12/17/2012	0.38	0.62	0.37	0.35	0.64	0.39	0.47	63	54	136	c
12/18/2012	0.38	0.60	0.36	0.34	0.63	0.38	0.48	62	49	138	c
12/19/2012	0.39	0.59	0.34	0.33	0.72	0.44	0.46	61	48	148	f
12/20/2012	0.37	0.56	0.33	0.33	0.73	0.56	0.60	56	48	172	f
12/21/2012	0.36	0.54	0.33	0.33	0.73	0.44	0.63	51	48	162	f
12/22/2012	0.35	0.52	0.32	0.33	0.70	0.52	0.67	49	47	162 e	f
12/23/2012	0.34	0.51	0.31	0.33	0.58	0.62	0.72	50	47	162 e	f
12/24/2012	0.35	0.52	0.30	0.33	0.52	0.59	0.78	44	47	162 e	f
12/25/2012	0.34	0.49	0.30	0.33	0.55	0.64	0.80	35	48	162 e	f
12/26/2012	0.33	0.49	0.30	0.33	0.51	0.66	0.78	28	47	106	f
12/27/2012	0.34	0.46	0.29	0.33	0.48	0.63	0.71	19	48	104	f
12/28/2012	0.30	0.44	0.29	0.34	0.47	0.49	0.58	12	50	80	f
12/29/2012	0.28	0.42	0.29	0.34	0.45	0.48	0.53	6	51	80 e	f
12/30/2012	0.27	0.41	0.30	0.34	0.44	0.46	0.51	3	50	80 e	f
12/31/2012	0.26	0.38	0.29	0.34	0.43	0.45	0.49	-- BR	51	75	f
01/01/2013	0.25	0.37	0.29	0.34	0.42	0.45	0.50	-- BR	51	75 e	f
01/02/2013	0.24	0.36	0.29	0.34	0.42	0.46	0.47	-- BR	51	70	f
01/03/2013	0.24	NR	0.29	0.33	0.42	0.47	0.49	-- BR	48	68	f
01/04/2013	0.24	NR	0.29	0.32	0.43	0.48	0.50	-- BR	46	67	f
01/05/2013	0.24	NR	0.28	0.32	0.43	0.48	0.50	-- BR	45	67 e	f
01/06/2013	0.25	NR	0.28	0.32	0.43	0.51	0.55	-- BR	45	67 e	f
01/07/2013	0.25	NR	0.27	0.31	0.42	0.49	0.54	-- BR	43	65	f
01/08/2013	0.25	0.34	0.27	0.31	0.42	0.53	0.75	5	42	63	f
01/09/2013	0.25	0.34	0.27	0.31	0.42	0.58	0.74	6	43	63	f
01/10/2013	0.26	0.33	0.27	0.31	0.40	0.58	0.74	9	42	62	f
01/11/2013	0.26	0.33	0.28	0.31	0.39	0.59	0.72	8	42	62 e	f
01/12/2013	0.26	0.32	0.27	0.31	0.38	0.54	0.62	10	42	62 e	f
01/13/2013	0.26	0.32	0.27	0.30	0.37	NR	0.55	11	39	62 e	f
01/14/2013	0.26	0.31	0.26	0.29	0.36	0.45	0.56	11	38	54	f
01/15/2013	0.25	0.31	0.27	0.29	0.36	0.52	0.58	12	37	47	f

Electrical Conductivity (EC) units: milliSiemens per Centimeter

Chloride (Cl) units: milligrams per liter

md : mean daily

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e : estimated value

Antioch and Bacon Island mdCI are calculated from the respective mdEC values.

Coordinated Operation Agreement Delta Status:

c = excess Delta conditions

b = balanced Delta cond. w/ no storage withdrawal

s = balanced Delta cond. w/ storage withdrawal

Excess Delta conditions with restrictions:

f = fish concerns

r = E/I ratio concerns

Delta Water Quality Conditions

South Delta Stations

Date	Vernalis		Brandt Bridge		Old River Near Tracy		Old River Near Middle River	
	md EC	30 day avg	md EC	30 day avg	md EC	30 day avg	md EC	30 day avg
12/17/2012	0.85	0.70	0.65	0.71	1.01	0.87	0.87	0.74
12/18/2012	0.84	0.71	0.64	0.70	1.03	0.88	0.88	0.75
12/19/2012	0.83	0.71	0.65	0.70	1.06	0.89	0.90	0.75
12/20/2012	0.83	0.72	0.77	0.70	1.13	0.90	0.86	0.76
12/21/2012	0.83	0.72	0.86	0.71	1.14	0.91	0.88	0.76
12/22/2012	0.83	0.73	0.88	0.71	1.10	0.92	0.87	0.77
12/23/2012	0.78	0.74	0.87	0.71	1.05	0.92	0.86	0.77
12/24/2012	0.67	0.74	0.86	0.72	1.02	0.92	0.85	0.78
12/25/2012	0.45	0.73	0.81	0.72	1.00	0.92	0.72	0.78
12/26/2012	0.41	0.72	0.57	0.72	0.89	0.92	0.43	0.77
12/27/2012	0.40	0.71	0.43	0.70	0.72	0.92	0.44	0.76
12/28/2012	0.35	0.69	0.45	0.69	0.63	0.91	0.43	0.75
12/29/2012	0.39	0.68	0.38	0.68	0.61	0.90	0.39	0.73
12/30/2012	0.41	0.67	0.43	0.67	0.58	0.90	0.42	0.72
12/31/2012	0.49	0.67	0.44	0.66	0.58	0.89	0.45	0.71
01/01/2013	0.57	0.67	0.49	0.66	0.64	0.88	0.52	0.71
01/02/2013	0.62	0.67	0.58	0.65	0.71	0.88	0.59	0.70
01/03/2013	0.68	0.67	0.63	0.65	0.85	0.88	0.65	0.70
01/04/2013	0.72	0.67	0.68	0.65	0.95	0.89	0.72	0.71
01/05/2013	0.74	0.68	0.73	0.65	1.08	0.90	0.75	0.71
01/06/2013	0.74	0.68	0.76	0.66	1.12	0.90	0.78	0.71
01/07/2013	0.68	0.68	0.80	0.66	1.10	0.91	0.79	0.72
01/08/2013	0.68	0.68	0.80	0.66	1.01	0.92	0.73	0.72
01/09/2013	0.65	0.67	0.75	0.67	0.99	0.92	0.73	0.71
01/10/2013	0.70	0.67	0.75	0.67	0.93	0.92	0.71	0.71
01/11/2013	0.73	0.67	0.70	0.67	0.89	0.92	0.68	0.71
01/12/2013	0.80	0.67	0.70	0.67	0.91	0.92	0.75	0.71
01/13/2013	0.85	0.67	0.75	0.67	0.93	0.92	0.81	0.70
01/14/2013	0.89	0.67	0.83	0.68	1.03	0.92	0.86	0.71
01/15/2013	0.90	0.68	0.87	0.68	1.12	0.93	0.90	0.71

Electrical Conductivity (EC) units: milliSiemens per Centimeter

md : mean daily

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e : estimated value

Compliance Standards

for the Sacramento - San Joaquin Delta and Suisun Marsh

Tuesday, January 29, 2013

Criteria	Standard	Status
Flow/Operational		
% of inflow diverted	65 %	14 %
NDOI, monthly average *	>= 6,000 cfs	23,384 cfs
NDOI, 7 day average*	>= 4,800 cfs	16,586 cfs

Water Quality

Days @ CCWD PP#1 w/ chlorides <= 150 mg/l	190 days	29 days
Export Areas for SWP, CVP, CCWD, et al	<= 250 mg/l Cl	37 mg/l

Maximum 30 day running average of mean daily EC at:

Vernalis	<=1.0 mS/cm	0.8 mS/cm
Brandt Bridge	<= 1.0 mS/cm	0.8 mS/cm
Old River Near Tracy	<=1.0 mS/cm	1.1 mS/cm
Old River Near Middle River	<=1.0 mS/cm	0.8 mS/cm

SUISUN MARSH:

Suisun Marsh Salinity Control Gates :	3 Open / 0 Closed / 0 Full Tide Open
Flashboard Status : In	
Boat Lock Status : Open	

California Hydrologic Conditions: (California Cooperative Snow Surveys Forecast, January 1, 2013)

Previous Month's Index (8RI for Dec.): 3.785 MAF

Water Year Type: Wet

Sacramento valley water year type index (40/30/30) @ 50%:9.3 MAF (Wet)

San Joaquin valley water year type index (60/20/20) @ 75%: 2.6 MAF (Below Normal)

Electrical Conductivity (EC) in milliSiemens per Centimeter.

Chlorides (Cl) in milligrams per liter

mht - mean high tides

md - mean daily

14 dm - fourteen day running mean

28 dm - twenty-eight day running mean

NR - No Record

NC - Average not computed due to insufficient data.

BR - Below Rating

e - estimated value

Montezuma Slough Gate Operation:

Number of gates operating at either

Open, Closed, or Full Tide Open

Flashboard Status : In, Out, or Modified In

Boat Lock Status : Open or Closed

Coordinated Operation Agreement Delta Status:

c = excess Delta conditions

b = balanced Delta cond. w/ no storage withdrawal

s = balanced Delta cond. w/ storage withdrawal

Excess Delta conditions with restrictions:

f = fish concerns

r = E/I ratio concerns

* NDOI, Rio Vista & Vernalis Flows:

- Monthly average is progressive daily mean.

- 7 day average is progressive daily mean for the first six days of the month.

Delta Water Quality Conditions

Date	Antioch Tides		Net Delta Outflow Index cfs	Martinez mdEC	Port Chicago		Mallard mdEC	Chipps Island		Collinsville	
	High	Half			mdEC	14dm		mdEC	14dm	mdEC	14dm
12/31/2012	5.86	4.26	57,654	1.33	0.22	1.50	0.22	0.14	0.31	0.16	0.19
01/01/2013	5.35	4.05	50,241	1.86	0.21	1.37	0.21	0.14	0.29	0.16	0.19
01/02/2013	5.25	3.92	41,938	3.17	0.21	1.28	0.21	0.13	0.28	0.18	0.18
01/03/2013	5.35	3.79	35,392	4.79	0.48	1.17	0.20	0.13	0.27	0.18	0.18
01/04/2013	5.37	3.61	34,018	6.19	0.90	0.95	0.20	0.13	0.24	0.19	0.17
01/05/2013	5.77	3.73	31,677	8.37	1.94	0.78	0.25	0.16	0.20	0.20	0.17
01/06/2013	6.17	3.94	31,559	10.60	2.92	0.72	0.44	0.30	0.18	0.21	0.17
01/07/2013	6.26	3.91	31,187	11.01	3.41	0.87	0.50	0.35	0.18	0.21	0.17
01/08/2013	6.22	3.83	30,910	10.51	3.00	1.05	0.49	0.34	0.19	0.22	0.18
01/09/2013	6.57	4.09	30,277	10.99	3.53	1.28	0.69	0.50	0.21	0.23	0.18
01/10/2013	6.71	4.24	29,072	10.64	3.40	1.50	0.64	0.46	0.23	0.24	0.19
01/11/2013	6.36	3.95	24,557	8.91	2.39	1.65	0.48	0.33	0.24	0.24	0.19
01/12/2013	6.26	3.89	20,798	8.64	2.20	1.79	0.46	0.32	0.26	0.23	0.20
01/13/2013	6.03	3.88	19,714	8.70	2.14	1.92	0.45	0.31	0.27	0.23	0.20
01/14/2013	5.44	3.60	20,221	7.76	1.54	2.02	0.37	0.26	0.28	0.23	0.21
01/15/2013	5.06	3.50	19,216	7.16	1.48	2.11	0.35	0.24	0.28	0.23	0.21
01/16/2013	5.09	3.37	18,272	7.49	1.44	2.20	0.34	0.23	0.29	0.23	0.22
01/17/2013	5.25	3.36	17,485	8.77	1.97	2.30	0.35	0.24	0.30	0.23	0.22
01/18/2013	5.28	3.41	15,992	9.99	3.02	2.46	0.40	0.28	0.31	0.23	0.22
01/19/2013	5.49	3.51	15,467	12.43	4.26	2.62	0.66	0.47	0.33	0.23	0.23
01/20/2013	5.60	3.65	15,359	14.69	5.60	2.81	1.21	0.93	0.38	0.25	0.23
01/21/2013	5.63	3.73	14,553	16.39	6.63	3.04	1.73	1.38	0.45	0.32	0.24
01/22/2013	5.82	3.86	14,123	18.25	8.50	3.44	2.46	2.04	0.57	0.52	0.26
01/23/2013	6.19	4.15	13,890	19.21	9.73	3.88	3.55	3.06	0.75	1.04	0.32
01/24/2013	6.16	4.08	14,436	18.80	9.58	4.32	3.57	3.08	0.94	0.91	0.36
01/25/2013	6.10	4.07	16,642	18.26	8.98	4.79	3.38	2.90	1.12	0.86	0.41
01/26/2013	6.28	4.26	16,617	17.69	9.52	5.31	3.85	3.34	1.34	1.07	0.47
01/27/2013	5.97	4.04	17,212	15.90	8.14	5.74	2.88	2.43	1.49	0.75	0.51
01/28/2013	5.55	3.73	18,576	13.77	6.44	6.09	2.00	1.62	1.59	0.44	0.52
01/29/2013	5.13	3.46	18,727	12.28	5.16	6.35	1.31	1.02	1.64	0.30	0.53

Antioch Tides measured in feet above mean sea level.

Net Delta Outflow Index calculated from equation as specified in D-1641, revised June 1995.

Chipps Island EC calculated from measurements recorded at Mallard Slough.

Electrical Conductivity (EC) units: milliSiemens per Centimeter

md : mean daily

14dm : fourteen day running mean

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e - estimated value

Delta Water Quality Conditions

Date	Antioch		Jersey Point		Emmaton		Cache Slough	Good Year Slough	Sunrise Club	Volanti Slough	Beldon Landing	Collinsville
	mdEC	14mdEC	mdEC	14mdEC	mdEC	14mdEC	mdEC	mhtEC	mhtEC	mhtEC	mhtEC	mhtEC
12/31/2012	0.22	0.33	0.19	0.27	0.15	0.19	0.71	4.21	2.38	2.23	1.79	0.16
01/01/2013	0.22	0.31	0.20	0.26	0.15	0.18	0.74	4.70	2.64	2.11	1.66	0.16
01/02/2013	0.22	0.30	0.20	0.25	0.16	0.18	0.78	4.80	2.53	2.14	1.73	0.18
01/03/2013	0.22	0.29	0.20	0.24	0.17	0.18	0.79	5.22	2.58	2.21	1.72	0.18
01/04/2013	0.22	0.27	0.20	0.23	0.18	0.17	0.79	5.92	2.89	2.24	1.66	0.19
01/05/2013	0.22	0.26	0.20	0.22	0.19	0.17	0.80	5.38	2.60	2.22	1.72	0.20
01/06/2013	0.22	0.25	0.20	0.22	0.20	0.17	0.79	4.81	2.25	2.12	1.73	0.20
01/07/2013	0.22	0.24	0.21	0.21	0.20	0.17	0.69	4.30	2.30	2.11	1.77	0.21
01/08/2013	0.24	0.24	0.22	0.21	0.20	0.17	0.70	4.15	2.20	2.12	1.85	0.21
01/09/2013	0.24	0.23	0.22	0.21	0.22	0.18	0.73	4.14	2.32	2.19	1.95	0.22
01/10/2013	0.25	0.23	0.22	0.21	0.22	0.18	0.77	3.42	e	2.17	2.01	0.25
01/11/2013	0.25	0.23	0.22	0.21	0.22	0.18	0.80	3.32	2.25	2.27	2.05	0.24
01/12/2013	0.25	0.23	0.23	0.21	0.22	0.19	0.81	3.00	2.16	2.37	2.15	0.23
01/13/2013	0.25	0.23	0.23	0.21	0.22	0.19	0.82	2.94	2.16	2.49	2.21	0.23
01/14/2013	0.25	0.23	0.23	0.21	0.21	0.20	0.79	3.27	2.24	2.42	2.25	0.23
01/15/2013	0.26	0.23	0.23	0.21	0.21	0.20	0.73	3.75	2.31	2.57	2.38	0.23
01/16/2013	0.26	0.24	0.24	0.22	0.21	0.21	0.76	3.73	2.53	2.65	2.43	0.23
01/17/2013	0.26	0.24	0.24	0.22	0.22	0.21	0.82	3.39	2.59	2.62	2.40	0.23
01/18/2013	0.26	0.24	0.24	0.22	0.21	0.21	0.86	3.23	2.92	2.70	2.46	0.22
01/19/2013	0.26	0.25	0.24	0.23	0.22	0.21	0.86	3.23	2.85	2.48	2.45	0.22
01/20/2013	0.27	0.25	0.24	0.23	0.21	0.21	0.84	3.71	2.64	2.55	2.42	0.24
01/21/2013	0.30	0.26	0.24	0.23	0.21	0.22	0.84	3.81	2.52	2.40	2.47	0.56
01/22/2013	0.34	0.26	0.24	0.23	0.21	0.22	0.84	4.28	2.82	2.49	2.57	0.77
01/23/2013	0.45	0.28	0.25	0.23	0.22	0.22	0.85	4.64	3.61	2.67	2.90	1.44
01/24/2013	0.48	0.30	0.25	0.24	0.22	0.22	0.85	5.25	4.06	2.89	3.55	1.35
01/25/2013	0.48	0.31	0.25	0.24	0.22	0.22	0.87	5.81	4.63	4.25	3.91	1.38
01/26/2013	0.54	0.33	0.25	0.24	0.24	0.22	0.86	6.07	4.90	4.94	4.16	1.47
01/27/2013	0.47	0.35	0.25	0.24	0.23	0.22	0.87	6.44	5.10	5.43	4.24	1.05
01/28/2013	0.40	0.36	0.25	0.24	0.22	0.22	0.88	6.52	4.72	5.00	3.83	0.52
01/29/2013	0.36	0.37	0.25	0.24	0.21	0.22	0.75	6.48	4.30	4.46	3.47	0.31

Electrical Conductivity (EC) units: milliSiemens per Centimeter

Chloride (Cl) units: milligrams per liter

mht : mean high tides

md : mean daily

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e : estimated value

Delta Water Quality Conditions

Date	Bethel Island mdEC	Farrar Park mdEC	Holland Tract mdEC	Bacon Island mdEC	Contra Costa mdEC	Clifton Court mdEC	Tracy Pumping Plant mdEC	Antioch mdCI	Bacon Island mdCI	Contra Costa mdCI	Delta Status
12/31/2012	0.26	0.38	0.29	0.34	0.43	0.45	0.49	-- BR	51	75	f
01/01/2013	0.25	0.37	0.29	0.34	0.42	0.45	0.50	-- BR	51	75 e	f
01/02/2013	0.24	0.36	0.29	0.34	0.42	0.46	0.47	-- BR	51	70	f
01/03/2013	0.24	NR	0.29	0.33	0.42	0.47	0.49	-- BR	48	68	f
01/04/2013	0.24	NR	0.29	0.32	0.43	0.48	0.50	-- BR	46	67	f
01/05/2013	0.24	NR	0.28	0.32	0.43	0.48	0.50	-- BR	45	67 e	f
01/06/2013	0.25	NR	0.28	0.32	0.43	0.51	0.55	-- BR	45	67 e	f
01/07/2013	0.25	NR	0.27	0.31	0.42	0.49	0.54	-- BR	43	65	f
01/08/2013	0.25	0.34	0.27	0.31	0.42	0.53	0.75	5	42	63	f
01/09/2013	0.25	0.34	0.27	0.31	0.42	0.58	0.74	6	43	63	f
01/10/2013	0.26	0.33	0.27	0.31	0.40	0.58	0.74	9	42	62	f
01/11/2013	0.26	0.33	0.28	0.31	0.39	0.59	0.72	8	42	57	f
01/12/2013	0.26	0.32	0.27	0.31	0.38	0.54	0.62	10	42	55	f
01/13/2013	0.26	0.32	0.27	0.30	0.37	NR	0.55	11	39	53	f
01/14/2013	0.26	0.31	0.26	0.29	0.36	0.45	0.56	11	38	54	f
01/15/2013	0.25	0.31	0.27	0.29	0.36	0.52	0.58	12	37	47	f
01/16/2013	0.26	0.31	0.27	0.29	0.36	0.52	0.52	12	37	48	f
01/17/2013	0.25	0.31	0.27	0.29	0.35	0.54	0.67	13	36	47	f
01/18/2013	0.25	0.31	0.27	0.28	0.35	0.55	0.67	13	36	46	f
01/19/2013	0.25	0.30	0.26	0.28	0.34	0.55	0.70	14	36	47	f
01/20/2013	0.26	0.31	0.26	0.28	0.34	0.47	0.72	15	35	45	f
01/21/2013	0.26	0.31	0.26	0.28	0.33	0.47	0.74	25	35	44	f
01/22/2013	0.26	0.30	0.27	0.28	0.32	0.47	0.76	39	35	42	f
01/23/2013	0.26	0.31	0.27	0.28	0.32	0.48	0.75	75	36	41	f
01/24/2013	0.26	0.31	0.27	0.29	0.31	0.53	0.63	84	36	40	f
01/25/2013	0.26	0.31	0.27	0.29	0.31	0.56	0.75	84	37	37	f
01/26/2013	0.27	0.31	0.27	0.29	0.31	0.53	0.69	103	38	37 e	f
01/27/2013	0.27	0.31	0.27	0.30	0.31	0.53	0.69	80	39	37 e	f
01/28/2013	0.27	0.31	0.27	0.30	0.31	0.67	0.72	58	40	38	f
01/29/2013	0.27	0.31	0.28	0.30	0.32	0.69	0.73	44	40	37	f

Electrical Conductivity (EC) units: milliSiemens per Centimeter

Chloride (Cl) units: milligrams per liter

md : mean daily

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e : estimated value

Antioch and Bacon Island mdCI are calculated from the respective mdEC values

Coordinated Operation Agreement Delta Status:

c = excess Delta conditions

b = balanced Delta cond. w/ no storage withdrawal

s = balanced Delta cond. w/ storage withdrawal

Excess Delta conditions with restrictions:

f = fish concerns

r = E/I ratio concerns

Delta Water Quality Conditions

South Delta Stations

Date	Vernalis		Brandt Bridge		Old River Near Tracy		Old River Near Middle River	
	md EC	30 day avg	md EC	30 day avg	md EC	30 day avg	md EC	30 day avg
12/31/2012	0.49	0.67	0.44	0.66	0.58	0.89	0.45	0.71
01/01/2013	0.57	0.67	0.49	0.66	0.64	0.88	0.52	0.71
01/02/2013	0.62	0.67	0.58	0.65	0.71	0.88	0.59	0.70
01/03/2013	0.68	0.67	0.63	0.65	0.85	0.88	0.65	0.70
01/04/2013	0.72	0.67	0.68	0.65	0.95	0.89	0.72	0.71
01/05/2013	0.74	0.68	0.73	0.65	1.08	0.90	0.75	0.71
01/06/2013	0.74	0.68	0.76	0.66	1.12	0.90	0.78	0.71
01/07/2013	0.68	0.68	0.80	0.66	1.10	0.91	0.79	0.72
01/08/2013	0.68	0.68	0.80	0.66	1.01	0.92	0.73	0.72
01/09/2013	0.65	0.67	0.75	0.67	0.99	0.92	0.73	0.71
01/10/2013	0.70	0.67	0.75	0.67	0.93	0.92	0.71	0.71
01/11/2013	0.73	0.67	0.70	0.67	0.89	0.92	0.68	0.71
01/12/2013	0.80	0.67	0.70	0.67	0.91	0.92	0.75	0.71
01/13/2013	0.85	0.67	0.75	0.67	0.93	0.92	0.81	0.70
01/14/2013	0.89	0.67	0.83	0.68	1.03	0.92	0.86	0.71
01/15/2013	0.90	0.68	0.87	0.68	1.12	0.93	0.90	0.71
01/16/2013	0.92	0.68	0.92	0.69	1.12	0.93	0.93	0.71
01/17/2013	0.93	0.68	0.94	0.70	1.21	0.94	0.94	0.71
01/18/2013	0.95	0.69	0.95	0.71	1.27	0.94	0.95	0.71
01/19/2013	0.96	0.69	0.96	0.72	1.35	0.95	0.98	0.72
01/20/2013	0.96	0.69	0.98	0.72	1.32	0.96	0.97	0.72
01/21/2013	0.97	0.70	0.99	0.73	1.23	0.96	0.97	0.72
01/22/2013	0.95	0.70	1.01	0.73	1.25	0.97	1.00	0.73
01/23/2013	0.95	0.71	1.01	0.74	1.19	0.97	1.00	0.73
01/24/2013	0.94	0.73	1.02	0.74	1.16	0.98	1.00	0.74
01/25/2013	0.96	0.75	1.01	0.76	1.18	0.99	1.00	0.76
01/26/2013	0.96	0.77	1.00	0.78	1.20	1.00	1.01	0.78
01/27/2013	0.98	0.79	1.00	0.80	1.17	1.02	1.02	0.80
01/28/2013	0.99	0.81	1.01	0.82	1.16	1.04	1.03	0.82
01/29/2013	1.00	0.83	1.01	0.84	1.18	1.06	1.04	0.84

Electrical Conductivity (EC) units: milliSiemens per Centimeter

md : mean daily

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e : estimated value

Compliance Standards

for the Sacramento - San Joaquin Delta and Suisun Marsh

Thursday, February 21, 2013

Criteria	Standard	Status
Flow/Operational		
% of inflow diverted	35-45 %	23 %
Vernalis Base Flow : Monthly average *	>= 2,280 cfs	2,217 cfs
7 Day average *	>= 1,824 cfs	2,417 cfs
Habitat Protection, X2 / Flow	28 days at Chipps Island	21 days

Water Quality

Days @ CCWD PP#1 w/ chlorides <= 150 mg/l	175 days	52 days
Export Areas for SWP, CVP, CCWD, et al	<= 250 mg/l Cl	36 mg/l
Maximum 30 day running average of mean daily EC at:		
Vernalis	<=1.0 mS/cm	0.8 mS/cm
Brandt Bridge	<= 1.0 mS/cm	0.8 mS/cm
Old River Near Tracy	<=1.0 mS/cm	1.0 mS/cm
Old River Near Middle River	<=1.0 mS/cm	0.8 mS/cm

SUISUN MARSH:

Suisun Marsh Salinity Control Gates :	3 Open / 0 Closed / 0 Full Tide Open
Flashboard Status :	In
Boat Lock Status :	Open

California Hydrologic Conditions: (California Cooperative Snow Surveys Forecast, February 1, 2013)

Previous Month's Index (8RI for Jan.): 1.340 MAF

Water Year Type: Below Normal

Sacramento valley water year type index (40/30/30) @ 50%: 7.5 MAF (Below Normal)

San Joaquin valley water year type index (60/20/20) @ 75%: 2.4 MAF (Dry)

Electrical Conductivity (EC) in milliSiemens per Centimeter:

Chlorides (Cl) in milligrams per liter

mht - mean high tides

md - mean daily

14 dm - fourteen day running mean

28 dm - twenty-eight day running mean

NR - No Record

NC - Average not computed due to insufficient data.

BR : Below Rating

e - estimated value

Montezuma Slough Gate Operation:

Number of gates operating at either
Open, Closed, or Full Tide Open

Flashboard Status : In, Out, or Modified In

Boat Lock Status : Open or Closed

Coordinated Operation Agreement Delta Status:

c = excess Delta conditions

b = balanced Delta cond. w/ no storage withdrawal

s = balanced Delta cond. w/ storage withdrawal

Excess Delta conditions with restrictions:

f = fish concerns

r = E/I ratio concerns

* NDOI, Rio Vista & Vernalis Flows:

- Monthly average is progressive daily mean.

- 7 day average is progressive daily mean for the first six days of the month.

Delta Water Quality Conditions

Date	Antioch Tides		Net Delta Outflow Index cfs	Martinez mdEC	Port Chicago		Mallard mdEC	Chippis Island		Collinsville	
	High	Half			mdEC	14dm		mdEC	14dm	mdEC	14dm
01/23/2013	6.19	4.15	13,890	19.21	9.73	3.88	3.55	3.06	0.75	1.04	0.32
01/24/2013	6.16	4.08	14,436	18.80	9.58	4.32	3.57	3.08	0.94	0.91	0.36
01/25/2013	6.10	4.07	16,642	18.26	8.98	4.79	3.38	2.90	1.12	0.86	0.41
01/26/2013	6.28	4.26	16,617	17.69	9.52	5.31	3.85	3.34	1.34	1.07	0.47
01/27/2013	5.97	4.04	17,212	15.90	8.14	5.74	2.88	2.43	1.49	0.75	0.51
01/28/2013	5.55	3.73	18,576	13.77	6.44	6.09	2.00	1.62	1.59	0.44	0.52
01/29/2013	5.13	3.46	18,727	12.28	5.16	6.35	1.31	1.02	1.64	0.30	0.53
01/30/2013	4.90	3.37	17,945	11.62	4.23	6.55	0.96	0.72	1.68	0.26	0.53
01/31/2013	5.02	3.50	17,690	12.36	4.26	6.72	0.87	0.65	1.71	0.25	0.53
02/01/2013	5.33	3.55	16,958	12.94	4.66	6.83	0.89	0.66	1.74	0.24	0.53
02/02/2013	5.59	3.57	16,758	12.28	5.36	6.91	0.93	0.70	1.75	0.27	0.53
02/03/2013	5.69	3.60	16,429	14.99	5.39	6.90	1.54	1.21	1.77	0.29	0.54
02/04/2013	5.92	3.79	16,267	13.69	5.56	6.82	1.17	0.89	1.74	0.31	0.54
02/05/2013	6.22	4.04	15,816	15.06	6.28	6.66	1.63	1.30	1.68	0.35	0.52
02/06/2013	6.14	3.91	15,265	14.27	5.64	6.37	1.27	0.98	1.54	0.33	0.47
02/07/2013	6.27	3.96	15,943	14.59	5.90	6.11	1.43	1.12	1.40	0.32	0.43
02/08/2013	6.32	4.05	15,694	14.53	5.95	5.89	1.46	1.14	1.27	0.33	0.39
02/09/2013	6.19	3.96	15,673	14.09	5.67	5.62	1.39	1.09	1.11	0.32	0.34
02/10/2013	5.96	3.88	15,587	13.10	5.32	5.42	1.20	0.92	1.00	0.30	0.31
02/11/2013	5.64	3.81	16,618	13.23	5.03	5.32	1.14	0.87	0.95	0.27	0.30
02/12/2013	5.27	3.66	16,476	12.05	4.36	5.26	0.93	0.70	0.93	0.27	0.29
02/13/2013	5.22	3.57	14,918	11.28	4.12	5.25	0.82	0.61	0.92	0.27	0.29
02/14/2013	5.29	3.54	14,446	11.38	3.95	5.23	0.77	0.57	0.91	0.26	0.30
02/15/2013	5.31	3.47	13,821	11.56	4.03	5.18	0.79	0.58	0.91	0.26	0.30
02/16/2013	5.29	3.47	13,354	12.00	4.52	5.12	0.84	0.62	0.90	0.26	0.30
02/17/2013	5.60	3.77	12,954	12.95	5.94	5.16	1.15	0.88	0.88	0.30	0.30
02/18/2013	5.69	4.03	12,800	15.16	6.86	5.26	1.82	1.46	0.92	0.30	0.30
02/19/2013	5.93	4.26	12,342	16.47	8.29	5.40	2.22	1.82	0.95	0.34	0.30
02/20/2013	5.71	4.00	13,472	14.78	6.83	5.48	1.91	1.54	0.99	0.36	0.30
02/21/2013	5.39	3.67	12,702	14.23	5.93	5.49	1.37	1.07	0.99	0.32	0.30

Antioch Tides measured in feet above mean sea level.

Net Delta Outflow Index calculated from equation as specified in D-1641, revised June 1995.

Chippis Island EC calculated from measurements recorded at Mallard Slough.

Electrical Conductivity (EC) units: milliSiemens per Centimeter

md : mean daily

14dm : fourteen day running mean

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e - estimated value

Delta Water Quality Conditions

Date	Antioch		Jersey Point		Emmaton		Cache Slough	Good Year Slough	Sunrise Club	Volanti Slough	Beldon Landing	Collinsville
	mdEC	14mdEC	mdEC	14mdEC	mdEC	14mdEC	mdEC	mhtEC	mhtEC	mhtEC	mhtEC	mhtEC
01/23/2013	0.45	0.28	0.25	0.23	0.22	0.22	0.85	4.64	3.61	2.67	2.90	1.44
01/24/2013	0.48	0.30	0.25	0.24	0.22	0.22	0.85	5.25	4.06	2.89	3.55	1.35
01/25/2013	0.48	0.31	0.25	0.24	0.22	0.22	0.87	5.81	4.63	4.25	3.91	1.38
01/26/2013	0.54	0.33	0.25	0.24	0.24	0.22	0.86	6.07	4.90	4.94	4.16	1.47
01/27/2013	0.47	0.35	0.25	0.24	0.23	0.22	0.87	6.44	5.10	5.43	4.24	1.05
01/28/2013	0.40	0.36	0.25	0.24	0.22	0.22	0.88	6.52	4.72	5.00	3.83	0.52
01/29/2013	0.36	0.37	0.25	0.24	0.21	0.22	0.75	6.48	4.30	4.46	3.47	0.31
01/30/2013	0.34	0.37	0.25	0.24	0.21	0.22	0.73	6.43	4.11	3.22	3.59	0.26
01/31/2013	0.33	0.38	0.25	0.24	0.22	0.22	0.77	6.24	4.25	3.39	3.59	0.24
02/01/2013	0.32	0.38	0.25	0.25	0.22	0.22	0.82	4.55	4.39	3.35	3.75	0.25
02/02/2013	0.31	0.39	0.25	0.25	0.22	0.22	0.89	3.76	4.20	3.38	3.75	0.25
02/03/2013	0.32	0.39	0.25	0.25	0.22	0.22	0.88	4.87	4.28	3.40	3.61	0.31
02/04/2013	0.30	0.39	0.25	0.25	0.22	0.22	0.86	5.56	4.21	3.40	3.68	0.39
02/05/2013	0.32	0.39	0.25	0.25	0.23	0.22	0.89	5.65	4.15	4.11	3.62	0.40
02/06/2013	0.32	0.38	0.25	0.25	0.23	0.22	0.86	5.33	4.06	4.19	3.69	0.38
02/07/2013	0.34	0.37	0.25	0.25	0.23	0.22	0.89	5.66	4.09	4.23	3.87	0.34
02/08/2013	0.35	0.36	0.25	0.25	0.23	0.22	0.87	5.32	4.12	4.27	3.95	0.40
02/09/2013	0.35	0.35	0.25	0.25	0.23	0.22	0.87	5.21	4.19	4.33	3.99	0.34
02/10/2013	0.34	0.34	0.25	0.25	0.23	0.22	0.86	5.39	4.19	4.08	3.93	0.32
02/11/2013	0.33	0.33	0.25	0.25	0.24	0.22	0.87	5.26	4.25	4.13	3.98	0.27
02/12/2013	0.32	0.33	0.25	0.25	0.24	0.23	0.86	5.33	4.23	4.22	4.05	0.26
02/13/2013	0.33	0.33	0.25	0.25	0.23	0.23	0.84	5.67	4.37	4.33	4.10	0.26
02/14/2013	0.31	0.33	0.25	0.25	0.23	0.23	0.82	5.62	4.31	4.30	4.13	0.26
02/15/2013	0.31	0.33	0.25	0.25	0.24	0.23	0.81	5.63	4.37	4.24	3.97	0.26
02/16/2013	0.31	0.33	0.25	0.25	0.23	0.23	0.81	5.60	4.38	4.21	3.99	0.25
02/17/2013	0.31	0.33	0.26	0.25	0.23	0.23	0.82	5.09	4.25	4.20	4.11	0.34
02/18/2013	0.32	0.33	0.26	0.25	0.23	0.23	0.81	5.15	4.15	4.15	4.03	0.40
02/19/2013	0.35	0.33	0.26	0.25	0.23	0.23	0.86	5.34	4.06	4.23	4.06	0.44
02/20/2013	0.35	0.33	0.26	0.25	0.22	0.23	0.83	5.97	4.13	4.22	4.12	0.49
02/21/2013	0.33	0.33	0.26	0.25	0.22	0.23	0.78	6.44	4.18	4.27	4.12	0.40

Electrical Conductivity (EC) units: milliSiemens per Centimeter

Chloride (Cl) units: milligrams per liter

mht : mean high tides

md : mean daily

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e : estimated value

Delta Water Quality Conditions

Date	Bethel Island mdEC	Farrar Park mdEC	Holland Tract mdEC	Bacon Island mdEC	Contra Costa mdEC	Clifton Court mdEC	Tracy Pumping Plant mdEC	Antioch mdCl	Bacon Island mdCl	Contra Costa mdCl	Delta Status
01/23/2013	0.26	0.31	0.27	0.28	0.32	0.48	0.75	75	36	41	f
01/24/2013	0.26	0.31	0.27	0.29	0.31	0.53	0.63	84	36	40	f
01/25/2013	0.26	0.31	0.27	0.29	0.31	0.56	0.75	84	37	37	f
01/26/2013	0.27	0.31	0.27	0.29	0.31	0.53	0.69	103	38	38	f
01/27/2013	0.27	0.31	0.27	0.30	0.31	0.53	0.69	80	39	37	f
01/28/2013	0.27	0.31	0.27	0.30	0.31	0.67	0.72	58	40	38	f
01/29/2013	0.27	0.31	0.28	0.30	0.32	0.69	0.73	44	40	37	f
01/30/2013	0.27	0.31	0.28	0.30	0.32	0.62	0.74	37	41	33	f
01/31/2013	0.27	0.31	0.28	0.30	0.32	0.58	0.68	34	41	38	f
02/01/2013	0.27	0.31	0.28	0.30	0.32	0.61	0.65	32	40	38	f
02/02/2013	0.27	0.30	0.28	0.30	0.33	0.63	0.62	30	40	38	f
02/03/2013	0.27	0.31	0.28	0.30	0.33	0.61	0.64	31	40	39	f
02/04/2013	0.27	0.31	0.28	0.30	0.34	0.47	0.63	27	40	40	f
02/05/2013	0.27	0.31	0.27	0.30	0.34	0.55	0.59	31	39	42	f
02/06/2013	0.27	0.31	0.28	0.30	0.34	0.46	0.58	32	40	40	f
02/07/2013	0.27	0.30	0.28	0.30	0.34	0.47	0.60	40	40	43	f
02/08/2013	0.27	0.30	0.28	0.30	0.33	0.45	0.57	42	41	40	f
02/09/2013	0.27	0.30	0.28	0.30	0.33	0.48	0.59	41	41	40	f
02/10/2013	0.27	0.30	0.28	0.30	0.33	0.49	0.58	38	41	39	f
02/11/2013	0.27	0.30	0.28	0.31	0.33	0.55	0.58	35	41	38	f
02/12/2013	0.12	0.30	0.28	0.31	0.32	0.55	0.60	33	43	38	f
02/13/2013	0.00	0.30	0.29	0.31	0.32	0.53	0.57	34	43	37	f
02/14/2013	0.27	0.30	0.29	0.31	0.33	0.50	0.52	29	43	39	f
02/15/2013	0.27	0.30	0.29	0.31	0.33	0.49	0.48	30	43	38	f
02/16/2013	0.27	0.31	0.29	0.31	0.34	0.49	0.48	27	43	38	f
02/17/2013	0.27	0.31	0.28	0.31	0.33	0.47	0.46	30	42	38	f
02/18/2013	0.27	0.31	0.28	0.31	0.33	0.42	0.46	32	42	37	f
02/19/2013	0.27	0.31	0.29	0.31	0.32	0.42	0.45	43	43	36	f
02/20/2013	0.27	0.31	0.29	0.31	0.32	0.46	0.47	40	43	35	f
02/21/2013	0.28	0.32	0.29	0.32	0.32	0.46	0.49	37	44	36	f

Electrical Conductivity (EC) units: milliSiemens per Centimeter

Chloride (Cl) units: milligrams per liter

md : mean daily

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e : estimated value

Antioch and Bacon Island mdCl are calculated from the respective mdEC values.

Coordinated Operation Agreement Delta Status:

c = excess Delta conditions

b = balanced Delta cond. w/ no storage withdrawal

s = balanced Delta cond. w/ storage withdrawal

Excess Delta conditions with restrictions:

f = fish concerns

r = E/I ratio concerns

Delta Water Quality Conditions

South Delta Stations

Date	Vernalis		Brandt Bridge		Old River Near Tracy		Old River Near Middle River	
	md EC	30 day avg	md EC	30 day avg	md EC	30 day avg	md EC	30 day avg
01/23/2013	0.95	0.71	1.01	0.74	1.19	0.97	1.00	0.73
01/24/2013	0.94	0.73	1.02	0.74	1.16	0.98	1.00	0.74
01/25/2013	0.96	0.75	1.01	0.76	1.18	0.99	1.00	0.76
01/26/2013	0.96	0.77	1.00	0.78	1.20	1.00	1.01	0.78
01/27/2013	0.98	0.79	1.00	0.80	1.17	1.02	1.02	0.80
01/28/2013	0.99	0.81	1.01	0.82	1.16	1.04	1.03	0.82
01/29/2013	1.00	0.83	1.01	0.84	1.18	1.06	1.04	0.84
01/30/2013	0.99	0.85	1.02	0.85	1.19	1.08	1.06	0.86
01/31/2013	1.01	0.86	1.04	0.87	1.25	1.10	1.03	0.88
02/01/2013	0.85	0.87	1.03	0.89	1.26	1.12	1.03	0.89
02/02/2013	0.82	0.87	1.04	0.90	1.26	1.13	0.90	0.90
02/03/2013	0.81	0.88	0.93	0.91	1.23	1.14	0.83	0.91
02/04/2013	0.81	0.88	0.84	0.91	1.15	1.15	0.82	0.91
02/05/2013	0.81	0.88	0.82	0.92	1.09	1.14	0.82	0.91
02/06/2013	0.78	0.88	0.82	0.92	1.06	1.14	0.81	0.91
02/07/2013	0.75	0.89	0.81	0.92	1.08	1.15	0.79	0.91
02/08/2013	0.70	0.89	0.80	0.92	1.04	1.15	0.76	0.91
02/09/2013	0.69	0.89	0.74	0.92	0.94	1.15	0.68	0.91
02/10/2013	0.68	0.89	0.67	0.92	0.87	1.15	0.65	0.91
02/11/2013	0.68	0.88	0.66	0.92	0.87	1.15	0.64	0.91
02/12/2013	0.66	0.87	0.64	0.91	0.88	1.14	0.63	0.90
02/13/2013	0.65	0.87	0.63	0.91	0.90	1.14	0.61	0.89
02/14/2013	0.65	0.86	0.62	0.90	0.90	1.13	0.61	0.88
02/15/2013	0.66	0.85	0.61	0.89	0.88	1.12	0.60	0.87
02/16/2013	0.64	0.84	0.61	0.88	0.82	1.11	0.61	0.86
02/17/2013	0.61	0.83	0.61	0.86	0.81	1.10	0.59	0.85
02/18/2013	0.62	0.82	0.60	0.85	0.75	1.08	0.58	0.84
02/19/2013	0.60	0.81	0.59	0.84	0.73	1.06	0.59	0.82
02/20/2013	0.57	0.79	0.59	0.83	0.72	1.04	0.57	0.81
02/21/2013	0.58	0.78	0.57	0.81	0.70	1.02	0.55	0.80

Electrical Conductivity (EC) units: milliSiemens per Centimeter

md : mean daily

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e : estimated value

Compliance Standards

for the Sacramento - San Joaquin Delta and Suisun Marsh

Monday, March 04, 2013

Criteria	Standard	Status
Flow/Operational		
% of inflow diverted	35 %	34 %
Vernalis Base Flow : Monthly average *	>= 2,280 cfs	1,969 cfs
7 Day average *	>= 1,824 cfs	1,969 cfs
Habitat Protection, X2 / Flow	15 days at Chipps Island	4 days

Water Quality

Days @ CCWD PP#1 w/ chlorides <= 150 mg/l	175 days	63 days
Export Areas for SWP, CVP, CCWD, et al	<= 250 mg/l Cl	36 mg/l

Maximum 30 day running average of mean daily EC at:

Vernalis	<=1.0 mS/cm	0.7 mS/cm
Brandt Bridge	<= 1.0 mS/cm	0.7 mS/cm
Old River Near Tracy	<=1.0 mS/cm	0.9 mS/cm
Old River Near Middle River	<=1.0 mS/cm	0.7 mS/cm

SUISUN MARSH:

Suisun Marsh Salinity Control Gates :	3 Open / 0 Closed / 0 Full Tide Open
Flashboard Status : In	
Boat Lock Status : Open	

California Hydrologic Conditions: (California Cooperative Snow Surveys Forecast, February 1, 2013)

Previous Month's Index (8RI for Jan.): 1.340 MAF

Water Year Type: Below Normal

Sacramento valley water year type index (40/30/30) @ 50%: 7.5 MAF (Below Normal)

San Joaquin valley water year type index (60/20/20) @ 75%: 2.4 MAF (Dry)

Electrical Conductivity (EC) in milliSiemens per Centimeter.

Chlorides (Cl) in milligrams per liter

mht - mean high tides

md - mean daily

14 dm - fourteen day running mean

28 dm - twenty-eight day running mean

NR - No Record

NC - Average not computed due to insufficient data.

BR : Below Rating

e - estimated value

Montezuma Slough Gate Operation:

Number of gates operating at either

Open, Closed, or Full Tide Open

Flashboard Status : In, Out, or Modified In

Boat Lock Status : Open or Closed

Coordinated Operation Agreement Delta Status:

c = excess Delta conditions

b = balanced Delta cond. w/ no storage withdrawal

s = balanced Delta cond. w/ storage withdrawal

Excess Delta conditions with restrictions:

f = fish concerns

r = E/I ratio concerns

* NDOI, Rio Vista & Vernalis Flows:

- Monthly average is progressive daily mean.

- 7 day average is progressive daily mean for the first six days of the month.

Delta Water Quality Conditions

Date	Antioch Tides		Net Delta Outflow Index cfs	Martinez mdEC	Port Chicago		Mallard mdEC	Chippis Island		Collinsville	
	High	Half			mdEC	14dm		mdEC	14dm	mdEC	14dm
02/03/2013	5.69	3.60	16,429	14.99	5.39	6.90	1.54	1.21	1.77	0.29	0.54
02/04/2013	5.92	3.79	16,267	13.69	5.56	6.82	1.17	0.89	1.74	0.31	0.54
02/05/2013	6.22	4.04	15,816	15.06	6.28	6.66	1.63	1.30	1.68	0.35	0.52
02/06/2013	6.14	3.91	15,265	14.27	5.64	6.37	1.27	0.96	1.54	0.33	0.47
02/07/2013	6.27	3.96	15,943	14.59	5.90	6.11	1.43	1.12	1.40	0.32	0.43
02/08/2013	6.32	4.05	15,694	14.53	5.95	5.89	1.46	1.14	1.27	0.33	0.39
02/09/2013	6.19	3.96	15,673	14.09	5.67	5.62	1.39	1.09	1.11	0.32	0.34
02/10/2013	5.96	3.88	15,587	13.10	5.32	5.42	1.20	0.92	1.00	0.30	0.31
02/11/2013	5.64	3.81	16,618	13.23	5.03	5.32	1.14	0.87	0.95	0.27	0.30
02/12/2013	5.27	3.66	16,476	12.05	4.36	5.26	0.93	0.70	0.93	0.27	0.29
02/13/2013	5.22	3.57	14,918	11.28	4.12	5.25	0.82	0.61	0.92	0.27	0.29
02/14/2013	5.29	3.54	14,446	11.38	3.95	5.23	0.77	0.57	0.91	0.26	0.30
02/15/2013	5.31	3.47	13,821	11.56	4.03	5.18	0.79	0.58	0.91	0.26	0.30
02/16/2013	5.29	3.47	13,354	12.00	4.52	5.12	0.84	0.62	0.90	0.26	0.30
02/17/2013	5.60	3.77	12,954	12.85	5.94	5.16	1.15	0.88	0.88	0.30	0.30
02/18/2013	5.69	4.03	12,800	15.16	6.86	5.26	1.82	1.46	0.92	0.30	0.30
02/19/2013	5.93	4.26	12,342	16.47	8.29	5.40	2.22	1.82	0.95	0.34	0.30
02/20/2013	5.71	4.00	13,472	14.78	6.83	5.48	1.91	1.54	0.99	0.36	0.30
02/21/2013	5.39	3.67	12,702	14.23	5.93	5.49	1.37	1.07	0.99	0.32	0.30
02/22/2013	5.45	3.64	12,660	14.48	6.22	5.51	1.47	1.15	0.99	0.31	0.30
02/23/2013	5.49	3.62	10,980	15.04	6.47	5.56	1.55	1.23	1.00	0.35	0.30
02/24/2013	5.27	3.36	10,808	13.72	5.82	5.60	1.32	1.03	1.01	0.31	0.30
02/25/2013	5.25	3.42	9,565	14.13	6.42	5.70	1.60	1.27	1.04	0.33	0.30
02/26/2013	5.20	3.48	9,813	14.94	6.85	5.88	1.80	1.44	1.09	0.35	0.31
02/27/2013	5.01	3.43	9,448	15.26	7.04	6.08	1.84	1.48	1.15	0.36	0.32
02/28/2013	5.10	3.40	9,805	14.60	7.06	6.31	1.91	1.55	1.22	0.37	0.32
03/01/2013	5.15	3.35	9,467	14.79	6.80	6.50	1.79	1.43	1.28	0.37	0.33
03/02/2013	5.37	3.55	8,470	15.61	7.28	6.70	2.15	1.75	1.36	0.39	0.34
03/03/2013	5.77	3.78	8,081	17.17	8.74	6.90	3.07	2.60	1.49	0.78	0.38
03/04/2013	5.84	3.85	8,288	17.46	8.99	7.05	3.21	2.73	1.58	0.94	0.42

Antioch Tides measured in feet above mean sea level.

Net Delta Outflow Index calculated from equation as specified in D-1641, revised June 1995.

Chippis Island EC calculated from measurements recorded at Mallard Slough.

Electrical Conductivity (EC) units: milliSiemens per Centimeter

md : mean daily

14dm : fourteen day running mean

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e - estimated value

Delta Water Quality Conditions

Date	Antioch		Jersey Point		Emmerton		Cache Slough	Good Year Slough	Sunrise Club	Volanti Slough	Beldon Landing	Collinsville
	mdEC	14mdEC	mdEC	14mdEC	mdEC	14mdEC	mdEC	mhtEC	mhtEC	mhtEC	mhtEC	mhtEC
02/03/2013	0.32	0.39	0.25	0.25	0.22	0.22	0.88	4.87	4.28	3.40	3.61	0.31
02/04/2013	0.30	0.39	0.25	0.25	0.22	0.22	0.86	5.56	4.21	3.40	3.68	0.39
02/05/2013	0.32	0.39	0.25	0.25	0.23	0.22	0.89	5.65	4.15	4.11	3.62	0.40
02/06/2013	0.32	0.38	0.25	0.25	0.23	0.22	0.86	5.33	4.06	4.19	3.69	0.38
02/07/2013	0.34	0.37	0.25	0.25	0.23	0.22	0.89	5.66	4.09	4.23	3.87	0.34
02/08/2013	0.35	0.36	0.25	0.25	0.23	0.22	0.87	5.32	4.12	4.27	3.95	0.40
02/09/2013	0.35	0.35	0.25	0.25	0.23	0.22	0.87	5.21	4.19	4.33	3.99	0.34
02/10/2013	0.34	0.34	0.25	0.25	0.23	0.22	0.86	5.39	4.19	4.08	3.93	0.32
02/11/2013	0.33	0.33	0.25	0.25	0.24	0.22	0.87	5.26	4.25	4.13	3.98	0.27
02/12/2013	0.32	0.33	0.25	0.25	0.24	0.23	0.86	5.33	4.23	4.22	4.05	0.26
02/13/2013	0.33	0.33	0.25	0.25	0.23	0.23	0.84	5.67	4.37	4.33	4.10	0.26
02/14/2013	0.31	0.33	0.25	0.25	0.23	0.23	0.82	5.62	4.31	4.30	4.13	0.26
02/15/2013	0.31	0.33	0.25	0.25	0.24	0.23	0.81	5.63	4.37	4.24	3.97	0.26
02/16/2013	0.31	0.33	0.25	0.25	0.23	0.23	0.81	5.60	4.38	4.21	3.99	0.25
02/17/2013	0.31	0.33	0.26	0.25	0.23	0.23	0.82	5.09	4.25	4.20	4.11	0.34
02/18/2013	0.32	0.33	0.26	0.25	0.23	0.23	0.81	5.15	4.15	4.15	4.03	0.40
02/19/2013	0.35	0.33	0.26	0.25	0.23	0.23	0.86	5.34	4.06	4.23	4.06	0.44
02/20/2013	0.35	0.33	0.26	0.25	0.22	0.23	0.83	5.97	4.13	4.22	4.12	0.49
02/21/2013	0.33	0.33	0.26	0.25	0.22	0.23	0.78	6.44	4.18	4.27	4.12	0.40
02/22/2013	0.35	0.33	0.26	0.25	0.22	0.23	0.79	6.24	4.25	4.47	4.20	0.39
02/23/2013	0.36	0.33	0.26	0.25	0.23	0.23	0.79	6.24	4.29	4.53	3.98	0.37
02/24/2013	0.35	0.33	0.26	0.26	0.22	0.23	0.82	6.56	4.27	4.56	4.01	0.28
02/25/2013	0.37	0.33	0.26	0.26	0.23	0.23	0.85	6.36	4.32	4.59	4.09	0.35
02/26/2013	0.38	0.34	0.26	0.26	0.23	0.23	0.83	6.32	4.40	4.61	4.23	0.32
02/27/2013	0.39	0.34	0.26	0.26	0.23	0.23	0.83	6.37	4.60	4.83	4.58	0.28
02/28/2013	0.41	0.35	0.26	0.26	0.23	0.23	0.85	6.24	4.72	4.80	4.59	0.38
03/01/2013	0.41	0.36	0.26	0.26	0.23	0.23	0.76	6.20	4.62	4.87	4.54	0.32
03/02/2013	0.44	0.37	0.27	0.26	0.24	0.23	0.72	6.08	4.64	4.87	4.68	0.44
03/03/2013	0.51	0.38	0.28	0.26	0.25	0.23	0.80	6.11	4.76	5.01	4.64	1.04
03/04/2013	0.53	0.39	0.29	0.26	0.25	0.23	0.86	6.51	4.82	5.05	4.69	1.45

Electrical Conductivity (EC) units: milliSiemens per Centimeter

Chloride (Cl) units: milligrams per liter

mht : mean high tides

md : mean daily

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e : estimated value

Delta Water Quality Conditions

Date	Bethel Island mdEC	Farrar Park mdEC	Holland Tract mdEC	Bacon Island mdEC	Contra Costa mdEC	Clifton Court mdEC	Tracy Pumping Plant mdEC	Antioch mdCl	Bacon Island mdCl	Contra Costa mdCl	Delta Status
02/03/2013	0.27	0.31	0.28	0.30	0.33	0.61	0.64	31	40	39	f
02/04/2013	0.27	0.31	0.28	0.30	0.34	0.47	0.63	27	40	40	f
02/05/2013	0.27	0.31	0.27	0.30	0.34	0.55	0.59	31	39	42	f
02/06/2013	0.27	0.31	0.28	0.30	0.34	0.46	0.58	32	40	40	f
02/07/2013	0.27	0.30	0.28	0.30	0.34	0.47	0.60	40	40	43	f
02/08/2013	0.27	0.30	0.28	0.30	0.33	0.45	0.57	42	41	40	f
02/09/2013	0.27	0.30	0.28	0.30	0.33	0.48	0.59	41	41	40	f
02/10/2013	0.27	0.30	0.28	0.30	0.33	0.49	0.58	38	41	39	f
02/11/2013	0.27	0.30	0.28	0.31	0.33	0.55	0.58	35	41	38	f
02/12/2013	0.12	0.30	0.28	0.31	0.32	0.55	0.60	33	43	38	f
02/13/2013	0.00	0.30	0.29	0.31	0.32	0.53	0.57	34	43	37	f
02/14/2013	0.27	0.30	0.29	0.31	0.33	0.50	0.52	29	43	39	f
02/15/2013	0.27	0.30	0.29	0.31	0.33	0.49	0.48	30	43	38	f
02/16/2013	0.27	0.31	0.29	0.31	0.34	0.49	0.48	27	43	38	f
02/17/2013	0.27	0.31	0.28	0.31	0.33	0.47	0.46	30	42	38	f
02/18/2013	0.27	0.31	0.28	0.31	0.33	0.42	0.46	32	42	37	f
02/19/2013	0.27	0.31	0.29	0.31	0.32	0.42	0.45	43	43	36	f
02/20/2013	0.27	0.31	0.29	0.31	0.32	0.46	0.47	40	43	35	f
02/21/2013	0.28	0.32	0.29	0.32	0.32	0.46	0.49	37	44	36	f
02/22/2013	0.28	0.32	0.29	0.31	0.31	0.46	0.52	43	44	37	f
02/23/2013	0.27	0.32	0.29	0.31	0.32	0.45	0.49	45	43	36	f
02/24/2013	0.28	0.32	0.28	0.31	0.32	0.45	0.49	41	42	36	f
02/25/2013	0.28	0.32	0.29	0.31	0.33	0.45	0.50	47	42	35	f
02/26/2013	0.27	0.31	0.29	0.30	0.33	0.45	0.50	51	40	36	f
02/27/2013	0.28	0.31	0.29	0.30	0.32	0.45	0.50	54	40	39	f
02/28/2013	0.27	0.31	0.29	0.30	0.32	0.46	0.50	60	40	36	f
03/01/2013	0.27	0.31	0.29	0.30	0.32	0.46	0.50	61	41	36	f
03/02/2013	0.27	0.30	0.29	0.30	0.32	0.47	0.50	69	41	36 e	f
03/03/2013	0.28	0.30	0.29	0.30	0.32	0.46	0.50	91	40	36 e	f
03/04/2013	0.28	0.31	0.29	0.30	0.32	0.48	0.50	98	41	36 e	f

Electrical Conductivity (EC) units: milliSiemens per Centimeter

Chloride (Cl) units: milligrams per liter

md : mean daily

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e : estimated value

Antioch and Bacon Island mdCl are calculated from the respective mdEC values.

Coordinated Operation Agreement Delta Status:

c = excess Delta conditions

b = balanced Delta cond. w/ no storage withdrawal

s = balanced Delta cond. w/ storage withdrawal

Excess Delta conditions with restrictions:

f = fish concerns

r = E/I ratio concerns

Delta Water Quality Conditions

South Delta Stations

Date	Vernalis		Brandt Bridge		Old River Near Tracy		Old River Near Middle River	
	md EC	30 day avg	md EC	30 day avg	md EC	30 day avg	md EC	30 day avg
02/03/2013	0.81	0.88	0.93	0.91	1.23	1.14	0.83	0.91
02/04/2013	0.81	0.88	0.84	0.91	1.15	1.15	0.82	0.91
02/05/2013	0.81	0.88	0.82	0.92	1.09	1.14	0.82	0.91
02/06/2013	0.78	0.88	0.82	0.92	1.06	1.14	0.81	0.91
02/07/2013	0.75	0.89	0.81	0.92	1.08	1.15	0.79	0.91
02/08/2013	0.70	0.89	0.80	0.92	1.04	1.15	0.76	0.91
02/09/2013	0.69	0.89	0.74	0.92	0.94	1.15	0.68	0.91
02/10/2013	0.68	0.89	0.67	0.92	0.87	1.15	0.65	0.91
02/11/2013	0.68	0.88	0.66	0.92	0.87	1.15	0.64	0.91
02/12/2013	0.66	0.87	0.64	0.91	0.88	1.14	0.63	0.90
02/13/2013	0.65	0.87	0.63	0.91	0.90	1.14	0.61	0.89
02/14/2013	0.65	0.86	0.62	0.90	0.90	1.13	0.61	0.88
02/15/2013	0.66	0.85	0.61	0.89	0.88	1.12	0.60	0.87
02/16/2013	0.64	0.84	0.61	0.88	0.82	1.11	0.61	0.86
02/17/2013	0.61	0.83	0.61	0.86	0.81	1.10	0.59	0.85
02/18/2013	0.62	0.82	0.60	0.85	0.75	1.08	0.58	0.84
02/19/2013	0.60	0.81	0.59	0.84	0.73	1.06	0.59	0.82
02/20/2013	0.57	0.79	0.59	0.83	0.72	1.04	0.57	0.81
02/21/2013	0.58	0.78	0.57	0.81	0.70	1.02	0.55	0.80
02/22/2013	0.60	0.77	0.55	0.80	0.72	1.01	0.56	0.78
02/23/2013	0.62	0.76	0.57	0.78	0.73	0.99	0.57	0.77
02/24/2013	0.61	0.75	0.59	0.77	0.72	0.98	0.59	0.75
02/25/2013	0.64	0.73	0.59	0.75	0.78	0.96	0.59	0.74
02/26/2013	0.63	0.72	0.60	0.74	0.82	0.95	0.62	0.73
02/27/2013	0.62	0.71	0.62	0.73	0.77	0.94	0.62	0.71
02/28/2013	0.63	0.70	0.62	0.71	0.78	0.92	0.61	0.70
03/01/2013	0.67	0.69	0.61	0.70	0.79	0.91	0.62	0.68
03/02/2013	0.68	0.68	0.62	0.69	0.80	0.89	0.68	0.67
03/03/2013	0.69	0.67	0.66	0.67	0.81	0.88	0.70	0.66
03/04/2013	0.70	0.67	0.69	0.66	0.79	0.86	0.72	0.65

Electrical Conductivity (EC) units: milliSiemens per Centimeter

md : mean daily

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e : estimated value

Compliance Standards

for the Sacramento - San Joaquin Delta and Suisun Marsh

Thursday, March 07, 2013

Criteria	Standard	Status
Flow/Operational		
% of inflow diverted	35 %	32 %
Vernalis Base Flow : Monthly average *	>= 2,280 cfs	1,916 cfs
7 Day average *	>= 1,824 cfs	1,916 cfs
Habitat Protection, X2 / Flow	17 days at Chipps Island	7 days

Water Quality

Days @ CCWD PP#1 w/ chlorides <= 150 mg/l	175 days	66 days
Export Areas for SWP, CVP, CCWD, et al	<= 250 mg/l Cl	31 mg/l
Maximum 30 day running average of mean daily EC at:		
Vernalis	<=1.0 mS/cm	0.7 mS/cm
Brandt Bridge	<= 1.0 mS/cm	0.6 mS/cm
Old River Near Tracy	<=1.0 mS/cm	0.8 mS/cm
Old River Near Middle River	<=1.0 mS/cm	0.6 mS/cm

SUISUN MARSH:

Suisun Marsh Salinity Control Gates :	3 Open / 0 Closed / 0 Full Tide Open
Flashboard Status : In	
Boat Lock Status : Open	

California Hydrologic Conditions: (California Cooperative Snow Surveys Forecast, February 1, 2013)

Previous Month's Index (8RI for Jan.): 1.340 MAF

Water Year Type: Below Normal

Sacramento valley water year type index (40/30/30) @ 50%:7.5 MAF (Below Normal)

San Joaquin valley water year type index (60/20/20) @ 75%: 2.4 MAF (Dry)

Electrical Conductivity (EC) in milliSiemens per Centimeter.

Chlorides (Cl) in milligrams per liter

mht - mean high tides

md - mean daily

14 dm - fourteen day running mean

28 dm - twenty-eight day running mean

NR - No Record

NC - Average not computed due to insufficient data.

BR : Below Rating

e - estimated value

Montezuma Slough Gate Operation:

Number of gates operating at either Open, Closed, or Full Tide Open

Flashboard Status : In, Out, or Modified In

Boat Lock Status : Open or Closed

Coordinated Operation Agreement Delta Status:

c = excess Delta conditions

b = balanced Delta cond. w/ no storage withdrawal

s = balanced Delta cond. w/ storage withdrawal

Excess Delta conditions with restrictions:

f = fish concerns

r = E/I ratio concerns

* NDOI, Rio Vista & Vernalis Flows:

- Monthly average is progressive daily mean.

- 7 day average is progressive daily mean for the first six days of the month.

Delta Water Quality Conditions

Date	Antioch Tides		Net Delta Outflow Index cfs	Martinez mdEC	Port Chicago		Mallard mdEC	Chippis Island		Collinsville	
	High	Half			mdEC	14dm		mdEC	14dm	mdEC	14dm
02/06/2013	6.14	3.91	15,265	14.27	5.64	6.37	1.27	0.98	1.54	0.33	0.47
02/07/2013	6.27	3.96	15,943	14.59	5.90	6.11	1.43	1.12	1.40	0.32	0.43
02/08/2013	6.32	4.05	15,694	14.53	5.95	5.89	1.46	1.14	1.27	0.33	0.39
02/09/2013	6.19	3.96	15,673	14.09	5.67	5.62	1.39	1.09	1.11	0.32	0.34
02/10/2013	5.96	3.88	15,587	13.10	5.32	5.42	1.20	0.92	1.00	0.30	0.31
02/11/2013	5.64	3.81	16,618	13.23	5.03	5.32	1.14	0.87	0.95	0.27	0.30
02/12/2013	5.27	3.66	16,476	12.05	4.36	5.26	0.93	0.70	0.93	0.27	0.29
02/13/2013	5.22	3.57	14,918	11.28	4.12	5.25	0.82	0.61	0.92	0.27	0.29
02/14/2013	5.29	3.54	14,446	11.38	3.95	5.23	0.77	0.57	0.91	0.26	0.30
02/15/2013	5.31	3.47	13,821	11.56	4.03	5.18	0.79	0.58	0.91	0.26	0.30
02/16/2013	5.29	3.47	13,354	12.00	4.52	5.12	0.84	0.62	0.90	0.26	0.30
02/17/2013	5.60	3.77	12,954	12.95	5.94	5.16	1.15	0.88	0.88	0.30	0.30
02/18/2013	5.69	4.03	12,800	15.16	6.86	5.26	1.82	1.46	0.92	0.30	0.30
02/19/2013	5.93	4.26	12,342	16.47	8.29	5.40	2.22	1.82	0.95	0.34	0.30
02/20/2013	5.71	4.00	13,472	14.78	6.83	5.48	1.91	1.54	0.99	0.36	0.30
02/21/2013	5.39	3.67	12,702	14.23	5.93	5.49	1.37	1.07	0.99	0.32	0.30
02/22/2013	5.45	3.64	12,660	14.48	6.22	5.51	1.47	1.15	0.99	0.31	0.30
02/23/2013	5.49	3.62	10,980	15.04	6.47	5.56	1.55	1.23	1.00	0.35	0.30
02/24/2013	5.27	3.36	10,808	13.72	5.82	5.60	1.32	1.03	1.01	0.31	0.30
02/25/2013	5.25	3.42	9,565	14.13	6.42	5.70	1.60	1.27	1.04	0.33	0.30
02/26/2013	5.20	3.48	9,813	14.94	6.85	5.88	1.80	1.44	1.09	0.35	0.31
02/27/2013	5.01	3.43	9,448	15.26	7.04	6.08	1.84	1.48	1.15	0.36	0.32
02/28/2013	5.10	3.40	9,805	14.60	7.06	6.31	1.91	1.55	1.22	0.37	0.32
03/01/2013	5.15	3.35	9,467	14.79	6.80	6.50	1.79	1.43	1.28	0.37	0.33
03/02/2013	5.37	3.55	8,470	15.61	7.28	6.70	2.15	1.75	1.36	0.39	0.34
03/03/2013	5.77	3.78	8,081	17.17	8.74	6.90	3.07	2.60	1.49	0.78	0.38
03/04/2013	5.84	3.85	8,288	17.46	8.99	7.05	3.21	2.73	1.58	0.94	0.42
03/05/2013	5.97	4.11	8,378	18.62	9.88	7.17	3.50	3.01	1.66	1.09	0.47
03/06/2013	6.58	4.55	7,524	21.42	11.63	7.51	5.12	4.58	1.88	1.42	0.55
03/07/2013	5.93	3.96	9,074	18.09	9.35	7.75	3.41	2.92	2.01	1.16	0.61

Antioch Tides measured in feet above mean sea level.

Net Delta Outflow Index calculated from equation as specified in D-1641, revised June 1995.

Chippis Island EC calculated from measurements recorded at Mallard Slough.

Electrical Conductivity (EC) units: milliSiemens per Centimeter

md : mean daily

14dm : fourteen day running mean

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e - estimated value

Delta Water Quality Conditions

Date	Antioch		Jersey Point		Emmaton		Cache Slough	Good Year Slough	Sunrise Club	Volanti Slough	Beldon Landing	Collinsville
	mdEC	14mdEC	mdEC	14mdEC	mdEC	14mdEC	mdEC	mhtEC	mhtEC	mhtEC	mhtEC	mhtEC
02/06/2013	0.32	0.38	0.25	0.25	0.23	0.22	0.86	5.33	4.06	4.19	3.69	0.38
02/07/2013	0.34	0.37	0.25	0.25	0.23	0.22	0.89	5.66	4.09	4.23	3.87	0.34
02/08/2013	0.35	0.36	0.25	0.25	0.23	0.22	0.87	5.32	4.12	4.27	3.95	0.40
02/09/2013	0.35	0.35	0.25	0.25	0.23	0.22	0.87	5.21	4.19	4.33	3.99	0.34
02/10/2013	0.34	0.34	0.25	0.25	0.23	0.22	0.86	5.39	4.19	4.08	3.93	0.32
02/11/2013	0.33	0.33	0.25	0.25	0.24	0.22	0.87	5.26	4.25	4.13	3.98	0.27
02/12/2013	0.32	0.33	0.25	0.25	0.24	0.23	0.86	5.33	4.23	4.22	4.05	0.26
02/13/2013	0.33	0.33	0.25	0.25	0.23	0.23	0.84	5.67	4.37	4.33	4.10	0.26
02/14/2013	0.31	0.33	0.25	0.25	0.23	0.23	0.82	5.62	4.31	4.30	4.13	0.26
02/15/2013	0.31	0.33	0.25	0.25	0.24	0.23	0.81	5.63	4.37	4.24	3.97	0.26
02/16/2013	0.31	0.33	0.25	0.25	0.23	0.23	0.81	5.60	4.38	4.21	3.99	0.25
02/17/2013	0.31	0.33	0.26	0.25	0.23	0.23	0.82	5.09	4.25	4.20	4.11	0.34
02/18/2013	0.32	0.33	0.26	0.25	0.23	0.23	0.81	5.15	4.15	4.15	4.03	0.40
02/19/2013	0.35	0.33	0.26	0.25	0.23	0.23	0.86	5.34	4.06	4.23	4.06	0.44
02/20/2013	0.35	0.33	0.26	0.25	0.22	0.23	0.83	5.97	4.13	4.22	4.12	0.49
02/21/2013	0.33	0.33	0.26	0.25	0.22	0.23	0.78	6.44	4.18	4.27	4.12	0.40
02/22/2013	0.35	0.33	0.26	0.25	0.22	0.23	0.79	6.24	4.25	4.47	4.20	0.39
02/23/2013	0.36	0.33	0.26	0.25	0.23	0.23	0.79	6.24	4.29	4.53	3.98	0.37
02/24/2013	0.35	0.33	0.26	0.26	0.22	0.23	0.82	6.56	4.27	4.56	4.01	0.28
02/25/2013	0.37	0.33	0.26	0.26	0.23	0.23	0.85	6.36	4.32	4.59	4.09	0.35
02/26/2013	0.38	0.34	0.26	0.26	0.23	0.23	0.83	6.32	4.40	4.61	4.23	0.32
02/27/2013	0.39	0.34	0.26	0.26	0.23	0.23	0.83	6.37	4.60	4.83	4.58	0.28
02/28/2013	0.41	0.35	0.26	0.26	0.23	0.23	0.85	6.24	4.72	4.80	4.59	0.38
03/01/2013	0.41	0.36	0.26	0.26	0.23	0.23	0.76	6.20	4.62	4.87	4.54	0.32
03/02/2013	0.44	0.37	0.27	0.26	0.24	0.23	0.72	6.08	4.64	4.87	4.68	0.44
03/03/2013	0.51	0.38	0.28	0.26	0.25	0.23	0.80	6.11	4.76	5.01	4.64	1.04
03/04/2013	0.53	0.39	0.29	0.26	0.25	0.23	0.86	6.51	4.82	5.05	4.69	1.45
03/05/2013	0.60	0.41	0.29	0.27	0.27	0.23	0.84	6.33	5.29	5.35	4.89	1.58
03/06/2013	0.99	0.46	0.32	0.27	0.32	0.24	0.82	6.99	5.60	5.53	5.28	2.44
03/07/2013	0.68	0.48	0.30	0.27	0.26	0.24	0.77	7.03	5.88	5.89	5.19	1.21

Electrical Conductivity (EC) units: milliSiemens per Centimeter

Chloride (Cl) units: milligrams per liter

mht : mean high tides

md : mean daily

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e : estimated value

Delta Water Quality Conditions

Date	Bethel Island mdEC	Farrar Park mdEC	Holland Tract mdEC	Bacon Island mdEC	Contra Costa mdEC	Clifton Court mdEC	Tracy Pumping Plant mdEC	Antioch mdCl	Bacon Island mdCl	Contra Costa mdCl	Delta Status
02/06/2013	0.27	0.31	0.28	0.30	0.34	0.46	0.58	32	40	40	f
02/07/2013	0.27	0.30	0.28	0.30	0.34	0.47	0.60	40	40	43	f
02/08/2013	0.27	0.30	0.28	0.30	0.33	0.45	0.57	42	41	40	f
02/09/2013	0.27	0.30	0.28	0.30	0.33	0.48	0.59	41	41	40	f
02/10/2013	0.27	0.30	0.28	0.30	0.33	0.49	0.58	38	41	39	f
02/11/2013	0.27	0.30	0.28	0.31	0.33	0.55	0.58	35	41	38	f
02/12/2013	0.12	0.30	0.28	0.31	0.32	0.55	0.60	33	43	38	f
02/13/2013	0.00	0.30	0.29	0.31	0.32	0.53	0.57	34	43	37	f
02/14/2013	0.27	0.30	0.29	0.31	0.33	0.50	0.52	29	43	39	f
02/15/2013	0.27	0.30	0.29	0.31	0.33	0.49	0.48	30	43	38	f
02/16/2013	0.27	0.31	0.29	0.31	0.34	0.49	0.48	27	43	38	f
02/17/2013	0.27	0.31	0.28	0.31	0.33	0.47	0.46	30	42	38	f
02/18/2013	0.27	0.31	0.28	0.31	0.33	0.42	0.46	32	42	37	f
02/19/2013	0.27	0.31	0.29	0.31	0.32	0.42	0.45	43	43	36	f
02/20/2013	0.27	0.31	0.29	0.31	0.32	0.46	0.47	40	43	35	f
02/21/2013	0.28	0.32	0.29	0.32	0.32	0.46	0.49	37	44	36	f
02/22/2013	0.28	0.32	0.29	0.31	0.31	0.46	0.52	43	44	37	f
02/23/2013	0.27	0.32	0.29	0.31	0.32	0.45	0.49	45	43	36	f
02/24/2013	0.28	0.32	0.28	0.31	0.32	0.45	0.49	41	42	36	f
02/25/2013	0.28	0.32	0.29	0.31	0.33	0.45	0.50	47	42	35	f
02/26/2013	0.27	0.31	0.29	0.30	0.33	0.45	0.50	51	40	36	f
02/27/2013	0.28	0.31	0.29	0.30	0.32	0.45	0.50	54	40	39	f
02/28/2013	0.27	0.31	0.29	0.30	0.32	0.46	0.50	60	40	36	f
03/01/2013	0.27	0.31	0.29	0.30	0.32	0.46	0.50	61	41	36	f
03/02/2013	0.27	0.30	0.29	0.30	0.32	0.47	0.50	69	41	35	f
03/03/2013	0.28	0.30	0.29	0.30	0.32	0.46	0.50	91	40	35	f
03/04/2013	0.28	0.31	0.29	0.30	0.32	0.48	0.50	98	41	35	f
03/05/2013	0.28	0.31	0.29	0.30	0.31	0.48	0.50	123	41	34	f
03/06/2013	0.28	0.31	0.28	0.30	0.31	0.42	0.46	245	40	32	f
03/07/2013	0.28	0.31	0.29	0.30	0.31	0.44	0.54	148	40	31	f

Electrical Conductivity (EC) units: milliSiemens per Centimeter

Chloride (Cl) units: milligrams per liter

md : mean daily

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e : estimated value

Antioch and Bacon Island mdCl are calculated from the respective mdEC values.

Coordinated Operation Agreement Delta Status:

c = excess Delta conditions

b = balanced Delta cond. w/ no storage withdrawal

s = balanced Delta cond. w/ storage withdrawal

Excess Delta conditions with restrictions:

f = fish concerns

r = E/I ratio concerns

State of California - Department of Water Resources - Division of Operations & Maintenance - Operations Control Office

Delta Water Quality Conditions**South Delta Stations**

Date	Vernalis		Brandt Bridge		Old River Near Tracy		Old River Near Middle River	
	md EC	30 day avg	md EC	30 day avg	md EC	30 day avg	md EC	30 day avg
02/06/2013	0.78	0.88	0.82	0.92	1.06	1.14	0.81	0.91
02/07/2013	0.75	0.89	0.81	0.92	1.08	1.15	0.79	0.91
02/08/2013	0.70	0.89	0.80	0.92	1.04	1.15	0.76	0.91
02/09/2013	0.69	0.89	0.74	0.92	0.94	1.15	0.68	0.91
02/10/2013	0.68	0.89	0.67	0.92	0.87	1.15	0.65	0.91
02/11/2013	0.68	0.88	0.66	0.92	0.87	1.15	0.64	0.91
02/12/2013	0.66	0.87	0.64	0.91	0.88	1.14	0.63	0.90
02/13/2013	0.65	0.87	0.63	0.91	0.90	1.14	0.61	0.89
02/14/2013	0.65	0.86	0.62	0.90	0.90	1.13	0.61	0.88
02/15/2013	0.66	0.85	0.61	0.89	0.88	1.12	0.60	0.87
02/16/2013	0.64	0.84	0.61	0.88	0.82	1.11	0.61	0.86
02/17/2013	0.61	0.83	0.61	0.86	0.81	1.10	0.59	0.85
02/18/2013	0.62	0.82	0.60	0.85	0.75	1.08	0.58	0.84
02/19/2013	0.60	0.81	0.59	0.84	0.73	1.06	0.59	0.82
02/20/2013	0.57	0.79	0.59	0.83	0.72	1.04	0.57	0.81
02/21/2013	0.58	0.78	0.57	0.81	0.70	1.02	0.55	0.80
02/22/2013	0.60	0.77	0.55	0.80	0.72	1.01	0.56	0.78
02/23/2013	0.62	0.76	0.57	0.78	0.73	0.99	0.57	0.77
02/24/2013	0.61	0.75	0.59	0.77	0.72	0.98	0.59	0.75
02/25/2013	0.64	0.73	0.59	0.75	0.78	0.96	0.59	0.74
02/26/2013	0.63	0.72	0.60	0.74	0.82	0.95	0.62	0.73
02/27/2013	0.62	0.71	0.62	0.73	0.77	0.94	0.62	0.71
02/28/2013	0.63	0.70	0.62	0.71	0.78	0.92	0.61	0.70
03/01/2013	0.67	0.69	0.61	0.70	0.79	0.91	0.62	0.68
03/02/2013	0.68	0.68	0.62	0.69	0.80	0.89	0.68	0.67
03/03/2013	0.69	0.67	0.66	0.67	0.81	0.88	0.70	0.66
03/04/2013	0.70	0.67	0.69	0.66	0.79	0.86	0.72	0.65
03/05/2013	0.66	0.66	0.71	0.65	0.82	0.85	0.72	0.65
03/06/2013	0.64	0.66	0.71	0.65	0.82	0.84	0.70	0.65
03/07/2013	0.68	0.65	0.71	0.65	0.81	0.83	0.66	0.64

Electrical Conductivity (EC) units: milliSiemens per Centimeter

md : mean daily

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e : estimated value

Compliance Standards

for the Sacramento - San Joaquin Delta and Suisun Marsh

Monday, March 18, 2013

Criteria	Standard	Status
Flow/Operational		
% of inflow diverted	35 %	27 %
Vernalis Base Flow : Monthly average *	>= 1,140 or 710 cfs	1,730 cfs
7 Day average *	>=912 or 568 cfs	1,507 cfs
Habitat Protection, X2 / Flow	18 days at Chipps Island 31 days at Collinsville	16 days 18 days
Water Quality		
Days @ CCWD PP#1 w/ chlorides <= 150 mg/l	175 days	77 days
Export Areas for SWP, CVP, CCWD, et al	<= 250 mg/l Cl	33 mg/l
Maximum 30 day running average of mean daily EC at:		
Vernalis	<=1.0 mS/cm	0.7 mS/cm
Brandt Bridge	<= 1.0 mS/cm	0.7 mS/cm
Old River Near Tracy	<=1.0 mS/cm	0.8 mS/cm
Old River Near Middle River	<=1.0 mS/cm	0.6 mS/cm
SUISUN MARSH:		
Suisun Marsh Salinity Control Gates :	3 Open / 0 Closed / 0 Full Tide Open	
Flashboard Status : In		
Boat Lock Status : Open		

California Hydrologic Conditions: (California Cooperative Snow Surveys Forecast, March 1, 2013)

Previous Month's Index (8RI for Feb.): 1.076 MAF

Water Year Type: Dry

Sacramento valley water year type index (40/30/30) @ 50%:6.4 MAF (Dry)

San Joaquin valley water year type index (60/20/20) @ 75%: 1.9 MAF (Critical)

Delta Water Quality Conditions

Electrical Conductivity (EC) in milliSiemens per Centimeter. Chlorides (Cl) in milligrams per liter mht - mean high tides md - mean daily 14 dm - fourteen day running mean 28 dm - twenty-eight day running mean NR - No Record NC - Average not computed due to insufficient data. BR - Below Rating e - estimated value	Montezuma Slough Gate Operation: Number of gates operating at either Open, Closed, or Full Tide Open Flashboard Status - In, Out, or Modified In Boat Lock Status - Open or Closed	Coordinated Operation Agreement Delta Status: c = excess Delta conditions b = balanced Delta cond. w/ no storage withdrawal s = balanced Delta cond. w/ storage withdrawal Excess Delta conditions with restrictions: f = fish concerns r = E/I ratio concerns * NDOI, Rio Vista & Vernalis Flows: - Monthly average is progressive daily mean. - 7 day average is progressive daily mean for the first six days of the month.
--	--	--

Delta Water Quality Conditions

Date	Antioch Tides		Net Delta Outflow Index cfs	Martinez mdEC	Port Chicago		Mallard mdEC	Chipps Island		Collinsville	
	High	Half			mdEC	14dm		mdEC	14dm	mdEC	14dm
02/17/2013	5.60	3.77	12,904	12.95	5.94	5.16	1.15	0.88	0.88	0.30	0.30
02/18/2013	5.69	4.03	12,750	15.16	6.86	5.26	1.82	1.46	0.92	0.30	0.30
02/19/2013	5.93	4.26	12,292	16.47	8.29	5.40	2.22	1.82	0.95	0.34	0.30
02/20/2013	5.71	4.00	13,422	14.78	6.83	5.48	1.91	1.54	0.99	0.36	0.30
02/21/2013	5.39	3.67	12,652	14.23	5.93	5.49	1.37	1.07	0.99	0.32	0.30
02/22/2013	5.45	3.64	12,610	14.48	6.22	5.51	1.47	1.15	0.99	0.31	0.30
02/23/2013	5.49	3.62	10,930	15.04	6.47	5.56	1.55	1.23	1.00	0.35	0.30
02/24/2013	5.27	3.36	11,443	13.72	5.82	5.60	1.32	1.03	1.01	0.31	0.30
02/25/2013	5.25	3.42	10,199	14.13	6.42	5.70	1.60	1.27	1.04	0.33	0.30
02/26/2013	5.20	3.48	9,763	14.94	6.85	5.88	1.80	1.44	1.09	0.35	0.31
02/27/2013	5.01	3.43	9,398	15.26	7.04	6.08	1.84	1.48	1.15	0.36	0.32
02/28/2013	5.10	3.40	9,755	14.60	7.06	6.31	1.91	1.55	1.22	0.37	0.32
03/01/2013	5.15	3.35	9,467	14.79	6.80	6.50	1.79	1.43	1.28	0.37	0.33
03/02/2013	5.37	3.55	8,502	15.61	7.28	6.70	2.15	1.75	1.36	0.39	0.34
03/03/2013	5.77	3.78	8,094	17.17	8.74	6.90	3.07	2.60	1.49	0.78	0.38
03/04/2013	5.84	3.85	8,290	17.46	8.99	7.05	3.21	2.73	1.58	0.94	0.42
03/05/2013	5.97	4.11	8,378	18.62	9.88	7.17	3.50	3.01	1.66	1.09	0.47
03/06/2013	6.58	4.55	7,524	21.42	11.63	7.51	5.12	4.58	1.88	1.42	0.55
03/07/2013	5.93	3.96	8,150	18.09	9.35	7.75	3.41	2.92	2.01	1.16	0.61
03/08/2013	6.08	4.09	8,444	18.41	10.45	8.06	4.34	3.82	2.20	1.49	0.69
03/09/2013	5.59	3.78	7,790	17.46	9.37	8.26	3.59	3.09	2.34	1.14	0.75
03/10/2013	5.27	3.49	8,862	16.99	8.75	8.47	3.15	2.68	2.45	0.91	0.79
03/11/2013	5.22	3.54	8,304	17.22	8.73	8.64	3.19	2.72	2.56	0.89	0.83
03/12/2013	5.25	3.58	8,616	16.77	8.97	8.79	3.27	2.79	2.65	0.95	0.88
03/13/2013	5.36	3.60	12,271	16.68	8.81	8.91	3.19	2.72	2.74	0.94	0.92
03/14/2013	5.42	3.71	13,421	16.26	8.77	9.04	3.05	2.58	2.82	0.95	0.96
03/15/2013	5.55	3.81	11,926	16.36	8.48	9.16	2.94	2.48	2.89	0.95	1.00
03/16/2013	5.59	3.82	11,819	16.38	8.45	9.24	2.99	2.53	2.95	0.96	1.04
03/17/2013	5.49	3.70	11,942	16.09	8.06	9.19	2.62	2.18	2.92	0.78	1.04
03/18/2013	5.38	3.74	11,989	14.98	7.47	9.08	2.33	1.92	2.86	0.79	1.03

Antioch Tides measured in feet above mean sea level.

Net Delta Outflow Index calculated from equation as specified in D-1641, revised June 1995.

Chipps Island EC calculated from measurements recorded at Mallard Slough.

Electrical Conductivity (EC) units: milliSiemens per Centimeter

md : mean daily

14dm : fourteen day running mean

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e - estimated value

Delta Water Quality Conditions

Date	Antioch		Jersey Point		Emmaton		Cache Slough	Good Year Slough	Sunrise Club	Volanti Slough	Beldon Landing	Collinsville
	mdEC	14mdEC	mdEC	14mdEC	mdEC	14mdEC	mdEC	mhtEC	mhtEC	mhtEC	mhtEC	mhtEC
02/17/2013	0.31	0.33	0.26	0.25	0.23	0.23	0.82	5.09	4.25	4.20	4.11	0.34
02/18/2013	0.32	0.33	0.26	0.25	0.23	0.23	0.81	5.15	4.15	4.15	4.03	0.40
02/19/2013	0.35	0.33	0.26	0.25	0.23	0.23	0.86	5.34	4.06	4.23	4.04	0.44
02/20/2013	0.35	0.33	0.26	0.25	0.22	0.23	0.83	5.97	4.13	4.22	4.12	0.49
02/21/2013	0.33	0.33	0.26	0.25	0.22	0.23	0.78	6.44	4.18	4.27	4.12	0.40
02/22/2013	0.35	0.33	0.26	0.25	0.22	0.23	0.79	6.24	4.25	4.47	4.20	0.39
02/23/2013	0.36	0.33	0.26	0.25	0.23	0.23	0.79	6.24	4.29	4.53	3.98	0.37
02/24/2013	0.35	0.33	0.26	0.26	0.22	0.23	0.82	6.56	4.27	4.56	4.01	0.28
02/25/2013	0.37	0.33	0.26	0.26	0.23	0.23	0.85	6.36	4.32	4.59	4.09	0.35
02/26/2013	0.38	0.34	0.26	0.26	0.23	0.23	0.83	6.32	4.40	4.61	4.23	0.32
02/27/2013	0.39	0.34	0.26	0.26	0.23	0.23	0.83	6.37	4.60	4.83	4.58	0.28
02/28/2013	0.41	0.35	0.26	0.26	0.23	0.23	0.85	6.24	4.72	4.80	4.59	0.38
03/01/2013	0.41	0.36	0.26	0.26	0.23	0.23	0.76	6.20	4.62	4.87	4.54	0.32
03/02/2013	0.44	0.37	0.27	0.26	0.24	0.23	0.72	6.08	4.64	4.87	4.68	0.44
03/03/2013	0.51	0.38	0.28	0.26	0.25	0.23	0.80	6.11	4.76	5.01	4.64	1.04
03/04/2013	0.53	0.39	0.29	0.26	0.25	0.23	0.86	6.51	4.82	5.05	4.69	1.45
03/05/2013	0.60	0.41	0.29	0.27	0.27	0.23	0.84	6.33	5.29	5.35	4.89	1.58
03/06/2013	0.99	0.46	0.32	0.27	0.32	0.24	0.82	6.99	5.60	5.53	5.28	2.44
03/07/2013	0.68	0.48	0.30	0.27	0.26	0.24	0.77	7.03	5.88	5.89	5.19	1.21
03/08/2013	0.75	0.51	0.31	0.28	0.28	0.25	0.77	7.27	6.27	6.24	5.26	1.81
03/09/2013	0.65	0.53	0.30	0.28	0.25	0.25	0.74	7.39	6.04	6.19	5.32	1.55
03/10/2013	0.62	0.55	0.30	0.28	0.25	0.25	0.74	7.72	6.19	6.31	5.33	1.02
03/11/2013	0.66	0.57	0.30	0.29	0.26	0.25	0.72	7.73	6.35	6.17	5.74	1.00
03/12/2013	0.69	0.60	0.30	0.29	0.26	0.26	0.73	7.74	6.50	6.45	5.93	1.46
03/13/2013	0.68	0.62	0.31	0.29	0.25	0.26	0.73	7.75	6.44	6.44	5.90	1.09
03/14/2013	0.68	0.64	0.31	0.30	0.25	0.26	0.74	7.71	6.45	6.51	6.14	1.33
03/15/2013	0.64	0.65	0.32	0.30	0.24	0.26	0.71	7.72	6.26	6.55	6.05	1.10
03/16/2013	0.65	0.67	0.32	0.30	0.24	0.26	0.68	7.71	6.25	6.52	6.21	1.27
03/17/2013	0.60	0.67	0.32	0.31	0.24	0.26	0.65	8.40	6.16	6.44	5.95	0.91
03/18/2013	0.57	0.68	0.31	0.31	0.23	0.26	0.65	8.64	6.10	6.32	5.89	1.03

Electrical Conductivity (EC) units: milliSiemens per Centimeter

Chloride (Cl) units: milligrams per liter

mht : mean high tides

md : mean daily

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e : estimated value

Delta Water Quality Conditions

Date	Bethel Island mdEC	Farrar Park mdEC	Holland Tract mdEC	Bacon Island mdEC	Contra Costa mdEC	Clifton Court mdEC	Tracy Pumping Plant mdEC	Antioch mdCI	Bacon Island mdCI	Contra Costa mdCI	Delta Status
02/17/2013	0.27	0.31	0.28	0.31	0.33	0.47	0.46	30	42	38	f
02/18/2013	0.27	0.31	0.28	0.31	0.33	0.42	0.46	32	42	37	f
02/19/2013	0.27	0.31	0.29	0.31	0.32	0.42	0.45	43	43	36	f
02/20/2013	0.27	0.31	0.29	0.31	0.32	0.46	0.47	40	43	35	f
02/21/2013	0.28	0.32	0.29	0.32	0.32	0.46	0.49	37	44	36	f
02/22/2013	0.28	0.32	0.29	0.31	0.31	0.46	0.52	43	44	37	f
02/23/2013	0.27	0.32	0.29	0.31	0.32	0.45	0.49	45	43	36	f
02/24/2013	0.28	0.32	0.28	0.31	0.32	0.45	0.49	41	42	36	f
02/25/2013	0.28	0.32	0.29	0.31	0.33	0.45	0.50	47	42	35	f
02/26/2013	0.27	0.31	0.29	0.30	0.33	0.45	0.50	51	40	36	f
02/27/2013	0.28	0.31	0.29	0.30	0.32	0.45	0.50	54	40	39	f
02/28/2013	0.27	0.31	0.29	0.30	0.32	0.46	0.50	60	40	36	f
03/01/2013	0.27	0.31	0.29	0.30	0.32	0.46	0.50	61	41	36	f
03/02/2013	0.27	0.30	0.29	0.30	0.32	0.47	0.50	69	41	35	f
03/03/2013	0.28	0.30	0.29	0.30	0.32	0.46	0.50	91	40	35	f
03/04/2013	0.28	0.31	0.29	0.30	0.32	0.48	0.50	98	41	35	f
03/05/2013	0.28	0.31	0.29	0.30	0.31	0.48	0.50	123	41	34	f
03/06/2013	0.28	0.31	0.28	0.30	0.31	0.42	0.46	245	40	32	f
03/07/2013	0.28	0.31	0.29	0.30	0.31	0.44	0.54	148	40	31	f
03/08/2013	0.28	0.31	0.29	0.30	0.31	0.43	0.52	168	40	31	f
03/09/2013	0.28	0.32	0.28	0.30	0.31	0.42	0.51	138	39	32	f
03/10/2013	0.29	0.32	0.29	0.30	0.31	0.43	0.54	127	39	32	f
03/11/2013	0.29	0.32	0.29	0.30	0.31	0.42	0.52	140	39	32	f
03/12/2013	0.29	0.32	0.29	0.30	0.31	0.42	0.50	151	39	32	f
03/13/2013	0.29	0.32	0.29	0.30	0.31	0.43	0.50	148	39	33	b
03/14/2013	0.29	0.32	0.29	0.30	0.30	0.43	0.51	145	40	32	b
03/15/2013	0.29	0.32	0.29	0.30	0.30	0.45	0.51	135	39	31	b
03/16/2013	0.29	0.32	0.29	0.30	0.30	0.45	0.50	135	39	31 e	b
03/17/2013	0.29	0.32	0.29	0.29	0.31	0.49	0.54	122	38	31 e	b
03/18/2013	0.29	0.33	0.29	0.30	0.31	0.49	0.54	111	39	33	b

Electrical Conductivity (EC) units: milliSiemens per Centimeter

Chloride (Cl) units: milligrams per liter

md : mean daily

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e : estimated value

Antioch and Bacon Island mdCI are calculated from the respective mdEC values.

Coordinated Operation Agreement Delta Status:

c = excess Delta conditions

b = balanced Delta cond. w/ no storage withdrawal

s = balanced Delta cond. w/ storage withdrawal

Excess Delta conditions with restrictions:

f = fish concerns

r = E/I ratio concerns

Delta Water Quality Conditions

South Delta Stations

Date	Vernalis		Brandt Bridge		Old River Near Tracy		Old River Near Middle River	
	md EC	30 day avg	md EC	30 day avg	md EC	30 day avg	md EC	30 day avg
02/17/2013	0.61	0.83	0.61	0.86	0.81	1.10	0.59	0.85
02/18/2013	0.62	0.82	0.60	0.85	0.75	1.08	0.58	0.84
02/19/2013	0.60	0.81	0.59	0.84	0.73	1.06	0.59	0.82
02/20/2013	0.57	0.79	0.59	0.83	0.72	1.04	0.57	0.81
02/21/2013	0.58	0.78	0.57	0.81	0.70	1.02	0.55	0.80
02/22/2013	0.60	0.77	0.55	0.80	0.72	1.01	0.56	0.78
02/23/2013	0.62	0.76	0.57	0.78	0.73	0.99	0.57	0.77
02/24/2013	0.61	0.75	0.59	0.77	0.72	0.98	0.59	0.75
02/25/2013	0.64	0.73	0.59	0.75	0.78	0.96	0.59	0.74
02/26/2013	0.63	0.72	0.60	0.74	0.82	0.95	0.62	0.73
02/27/2013	0.62	0.71	0.62	0.73	0.77	0.94	0.62	0.71
02/28/2013	0.63	0.70	0.62	0.71	0.78	0.92	0.61	0.70
03/01/2013	0.67	0.69	0.61	0.70	0.79	0.91	0.62	0.68
03/02/2013	0.68	0.68	0.62	0.69	0.80	0.89	0.68	0.67
03/03/2013	0.69	0.67	0.66	0.67	0.81	0.88	0.70	0.66
03/04/2013	0.70	0.67	0.69	0.66	0.79	0.86	0.72	0.65
03/05/2013	0.66	0.66	0.71	0.65	0.82	0.85	0.72	0.65
03/06/2013	0.64	0.66	0.71	0.65	0.82	0.84	0.70	0.65
03/07/2013	0.68	0.65	0.71	0.65	0.81	0.83	0.66	0.64
03/08/2013	0.72	0.65	0.71	0.64	0.80	0.82	0.70	0.64
03/09/2013	0.76	0.65	0.70	0.64	0.79	0.81	0.73	0.64
03/10/2013	0.75	0.65	0.71	0.64	0.80	0.80	0.76	0.64
03/11/2013	0.76	0.65	0.75	0.64	0.87	0.80	0.74	0.64
03/12/2013	0.84	0.66	0.78	0.64	0.91	0.80	0.68	0.64
03/13/2013	0.82	0.66	0.77	0.64	0.91	0.80	0.64	0.64
03/14/2013	0.88	0.67	0.78	0.65	0.90	0.80	0.59	0.64
03/15/2013	0.84	0.68	0.81	0.65	0.92	0.80	0.58	0.64
03/16/2013	0.84	0.69	0.83	0.66	0.95	0.81	0.64	0.64
03/17/2013	0.83	0.69	0.85	0.67	0.96	0.81	0.60	0.64
03/18/2013	0.87	0.70	0.88	0.68	0.98	0.81	0.75	0.64

Electrical Conductivity (EC) units: milliSiemens per Centimeter

md : mean daily

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e - estimated value

Compliance Standards

for the Sacramento - San Joaquin Delta and Suisun Marsh

Tuesday, April 23, 2013

Criteria	Standard	Status
Flow/Operational		
% of inflow diverted	35 %	16 %
Vernalis Base Flow : Monthly average *	>= 1,140 or 710 cfs	1,707 cfs
7 Day average *	>=912 or 568 cfs	2,262 cfs
Habitat Protection, X2 / Flow	19 days at Chipps Island 30 days at Collinsville	21 days 23 days

Water Quality

Days @ CCWD PP#1 w/ chlorides <= 150 mg/l	165 days	113 days
Export Areas for SWP, CVP, CCWD, et al	<= 250 mg/l Cl	37 mg/l
14dm EC at Emmaton	<= 0.45 mS/cm	0.21 mS/cm
14dm EC at Jersey Point	<= 0.45 mS/cm	0.25 mS/cm
Maximum 30 day running average of mean daily EC at:		
Vernalis	<=1.0 mS/cm	0.7 mS/cm
Brandt Bridge	<= 1.0 mS/cm	0.8 mS/cm
Old River Near Tracy	<=1.0 mS/cm	1.1 mS/cm
Old River Near Middle River	<=1.0 mS/cm	0.8 mS/cm

SUISUN MARSH:

Suisun Marsh Salinity Control Gates :	3 Open / 0 Closed / 0 Full Tide Open
Flashboard Status : In	
Boat Lock Status : Open	

California Hydrologic Conditions: (California Cooperative Snow Surveys Forecast, April 1, 2013)

Previous Month's Index (8RI for Mar.): 1.713 MAF

Water Year Type: Dry

Sacramento valley water year type index (40/30/30) @ 50%:6.0 MAF (Dry)

San Joaquin valley water year type index (60/20/20) @ 75%: 1.8 MAF (Critical)

Electrical Conductivity (EC) in milliSiemens per Centimeter.

Chlorides (Cl) in milligrams per liter

mht - mean high tides

md - mean daily

14 dm - fourteen day running mean

28 dm - twenty-eight day running mean

NR - No Record

NC - Average not computed due to insufficient data.

BR : Below Rating

e - estimated value

Montezuma Slough Gate Operation:

Number of gates operating at either

Open, Closed, or Full Tide Open

Flashboard Status : In, Out, or Modified In

Boat Lock Status : Open or Closed

Coordinated Operation Agreement Delta Status:

c = excess Delta conditions

b = balanced Delta cond. w/ no storage withdrawal

s = balanced Delta cond. w/ storage withdrawal

Excess Delta conditions with restrictions:

f = fish concerns

r = E/I ratio concerns

* NDOI, Rio Vista & Vernalis Flows:

- Monthly average is progressive daily mean.

- 7 day average is progressive daily mean for the first six days of the month.

Delta Water Quality Conditions

Date	Antioch Tides		Net Delta Outflow Index cfs	Martinez mdEC	Port Chicago		Mallard mdEC	Chippis Island		Collinsville	
	High	Half			mdEC	14dm		mdEC	14dm	mdEC	14dm
03/25/2013	5.34	3.74	10,227	21.04	11.66	8.83	4.83	4.36	2.65	1.64	0.93
03/26/2013	5.33	3.77	9,476	21.01	11.87	9.04	4.93	4.60	2.78	1.70	0.98
03/27/2013	5.52	3.85	9,270	21.05	11.96	9.26	5.17	4.63	2.91	1.82	1.04
03/28/2013	5.67	3.74	7,874	20.11	12.04	9.50	4.62	4.09	3.00	1.55	1.09
03/29/2013	5.74	3.74	7,427	20.00	12.03	9.75	4.88	4.35	3.14	1.71	1.14
03/30/2013	5.97	4.00	6,678	20.90	13.27	10.10	5.94	5.40	3.34	2.53	1.25
03/31/2013	6.20	4.10	7,625	21.81	13.34	10.47	6.17	5.63	3.59	2.58	1.38
04/01/2013	6.10	3.98	15,753	20.40	10.76	10.71	5.58	5.04	3.81	2.51	1.50
04/02/2013	5.89	3.95	18,249	19.07	12.11	11.05	4.96	4.43	4.00	2.09	1.60
04/03/2013	5.68	3.94	19,557	17.99	10.63	11.27	4.13	3.61	4.12	1.55	1.67
04/04/2013	5.66	4.03	20,780	18.47	10.05	11.40	3.74	3.24	4.17	1.22	1.71
04/05/2013	5.47	3.85	21,744	17.08	8.69	11.37	3.04	2.57	4.17	0.89	1.70
04/06/2013	5.36	3.78	19,484	16.65	8.40	11.25	2.61	2.18	4.10	0.68	1.69
04/07/2013	5.33	3.85	17,737	16.82	8.42	11.09	2.49	2.07	4.00	0.50	1.64
04/08/2013	6.02	4.02	17,513	15.14	7.68	10.80	2.38	1.97	3.83	0.63	1.57
04/09/2013	5.43	3.58	18,388	13.97	5.75	10.37	1.44	1.13	3.60	0.53	1.48
04/10/2013	5.54	3.68	16,350	13.62	6.35	9.96	1.66	1.32	3.36	0.39	1.38
04/11/2013	5.87	3.92	15,537	14.70	6.97	9.60	1.88	1.51	3.18	0.41	1.30
04/12/2013	5.93	4.06	15,110	14.94	7.18	9.26	1.77	1.41	2.97	0.46	1.21
04/13/2013	6.00	4.13	13,928	15.54	7.48	8.84	1.91	1.54	2.69	0.47	1.06
04/14/2013	5.87	4.21	13,201	15.01	7.03	8.39	1.90	1.53	2.40	0.48	0.91
04/15/2013	6.05	4.36	13,006	16.10	7.53	8.16	2.00	1.62	2.15	0.58	0.78
04/16/2013	5.30	3.81	11,996	12.75	5.11	7.66	1.18	0.91	1.90	0.40	0.66
04/17/2013	4.62	3.44	11,692	10.87	3.83	7.18	0.91	0.68	1.69	0.35	0.57
04/18/2013	4.51	3.45	10,332	14.05	6.29	6.91	1.32	1.03	1.53	0.33	0.51
04/19/2013	4.84	3.53	9,139	16.43	8.65	6.90	2.74	2.30	1.51	0.55	0.48
04/20/2013	4.93	3.50	8,211	18.80	11.88	7.15	4.52	3.99	1.64	1.65	0.55
04/21/2013	5.12	3.57	7,471	21.29	13.71	7.53	6.22	5.68	1.90	2.35	0.68
04/22/2013	5.33	3.66	7,059	22.73	15.38	8.08	6.75	6.22	2.20	3.03	0.85
04/23/2013	5.73	3.88	6,849	24.39	15.82	8.80	7.88	7.37	2.65	4.18	1.12

Antioch Tides measured in feet above mean sea level.

Net Delta Outflow Index calculated from equation as specified in D-1641, revised June 1995.

Chippis Island EC calculated from measurements recorded at Mallard Slough.

Electrical Conductivity (EC) units: milliSiemens per Centimeter

md : mean daily

14dm : fourteen day running mean

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e - estimated value

Delta Water Quality Conditions

Date	Antioch		Jersey Point		Emmaton		Cache Slough	Good Year Slough	Sunrise Club	Volanti Slough	Beldon Landing	Collinsville
	mdEC	14mdEC	mdEC	14mdEC	mdEC	14mdEC	mdEC	mhtEC	mhtEC	mhtEC	mhtEC	mhtEC
03/25/2013	0.75	0.61	0.31	0.31	0.21	0.23	0.67	7.83	6.41	6.62	6.06	1.98
03/26/2013	0.78	0.61	0.31	0.31	0.24	0.22	0.63	7.88	6.78	6.95	6.02	2.01
03/27/2013	0.86	0.63	0.32	0.31	0.26	0.22	0.62	8.32	7.05	7.38	6.30	2.12
03/28/2013	0.87	0.64	0.32	0.31	0.26	0.23	0.62	9.01	7.36	7.62	6.65	1.64
03/29/2013	0.93	0.66	0.32	0.31	0.27	0.23	0.56	9.27	7.44	7.77	7.17	2.22
03/30/2013	1.15	0.70	0.36	0.31	0.34	0.23	0.60	9.41	8.04	7.99	7.77	3.53
03/31/2013	1.28	0.74	0.38	0.32	0.36	0.24	0.64	9.60	8.27	8.00	7.87	3.38
04/01/2013	1.20	0.79	0.38	0.32	0.33	0.25	0.63	9.74	8.00	7.90	7.75	3.11
04/02/2013	1.01	0.82	0.36	0.33	0.29	0.26	0.53	9.77	7.51	7.61	7.52	2.60
04/03/2013	0.84	0.84	0.33	0.33	0.27	0.26	0.52	9.61	7.35	7.46	7.60	2.15
04/04/2013	0.77	0.86	0.32	0.33	0.26	0.26	0.57	9.47	7.28	7.48	7.69	1.53
04/05/2013	0.66	0.87	0.30	0.33	0.22	0.27	0.65	9.37	6.87	7.44	7.30	1.30
04/06/2013	0.58	0.88	0.29	0.33	0.21	0.27	0.63	9.27	6.78	7.23	7.32	1.08
04/07/2013	0.55	0.87	0.28	0.33	0.21	0.27	0.62	9.06	6.94	7.19	7.26	0.63
04/08/2013	0.54	0.86	0.29	0.32	0.22	0.27	0.61	8.94	6.75	7.06	7.37	1.11
04/09/2013	0.44	0.83	0.26	0.32	0.19	0.26	0.55	9.05	6.48	6.78	6.94	0.58
04/10/2013	0.42	0.80	0.26	0.32	0.19	0.26	0.55	8.39	6.17	6.56	7.11	0.53
04/11/2013	0.44	0.77	0.26	0.31	0.20	0.25	0.54	7.59	5.89	6.56	6.86	0.48
04/12/2013	0.43	0.74	0.26	0.31	0.20	0.25	0.53	6.84	5.87	6.37	6.58	0.53
04/13/2013	0.41	0.68	0.25	0.30	0.20	0.24	0.50	6.51	6.19	6.08	6.29	0.56
04/14/2013	0.40	0.62	0.25	0.29	0.21	0.23	0.45	6.60	6.01	6.06	6.22	0.67
04/15/2013	0.44	0.57	0.26	0.28	0.22	0.22	0.43	6.39	5.85	5.98	6.20	0.72
04/16/2013	0.38	0.52	0.24	0.27	0.19	0.21	0.39	6.58	5.80	6.01	6.10	0.45
04/17/2013	0.33	0.48	0.24	0.27	0.18	0.21	0.38	6.63	5.74	6.00	6.08	0.42
04/18/2013	0.32	0.45	0.23	0.26	0.18	0.20	0.37	6.20	5.51	5.95	5.98	0.37
04/19/2013	0.33	0.43	0.23	0.26	0.19	0.20	0.39	6.00	5.23	5.71	5.70	1.21
04/20/2013	0.39	0.42	0.23	0.25	0.20	0.20	0.39	5.83	5.06	5.62	5.55	2.04
04/21/2013	0.61	0.42	0.24	0.25	0.22	0.20	0.40	5.92	5.40	6.19	5.60	3.56
04/22/2013	0.87	0.44	0.24	0.25	0.25	0.20	0.42	6.13	5.97	6.77	5.93	4.39
04/23/2013	1.16	0.49	0.25	0.25	0.29	0.21	0.42	6.94	7.31	8.39	7.40	5.37

Electrical Conductivity (EC) units: milliSiemens per Centimeter

Chloride (Cl) units: milligrams per liter

mht : mean high tides

md : mean daily

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e : estimated value

Delta Water Quality Conditions

Date	Bethel Island mdEC	Farrar Park mdEC	Holland Tract mdEC	Bacon Island mdEC	Contra Costa mdEC	Clifton Court mdEC	Tracy Pumping Plant mdEC	Antioch mdCl	Bacon Island mdCl	Contra Costa mdCl	Delta Status
03/25/2013	0.28	0.32	0.28	0.28	0.30	0.52	0.53	167	34	34	r
03/26/2013	0.29	0.32	0.27	0.28	0.30	0.42	0.48	179	34	34	r
03/27/2013	0.29	0.32	0.28	0.28	0.30	0.39	0.50	205	34	32	r
03/28/2013	0.29	0.32	0.27	0.27	0.29	0.39	0.51	208	33	31	r
03/29/2013	0.29	0.32	0.27	0.27	0.29	0.39	0.52	225	33	31	r
03/30/2013	0.29	0.33	0.28	0.27	0.29	0.36	0.49	298	32	30	r
03/31/2013	0.29	0.33	0.28	0.27	0.28	0.42	0.51	337	32	30	r
04/01/2013	0.29	0.33	0.28	0.27	0.29	0.42	0.49	313	33	30	r
04/02/2013	0.29	0.33	0.28	0.28	0.29	0.66	0.50	251	34	30	r
04/03/2013	0.30	0.33	0.28	0.28	0.29	0.72	0.48	199	35	29	b
04/04/2013	0.29	0.33	0.28	0.29	0.29	0.69	0.48	174	36	30	b
04/05/2013	0.30	0.34	0.28	0.29	0.29	0.72	0.48	140	37	30	b
04/06/2013	0.29	0.34	0.28	0.29	0.29	0.76	0.48	114	38	31	b
04/07/2013	0.29	0.34	0.28	0.30	0.29	0.77	0.48	105	39	31	b
04/08/2013	0.29	0.33	0.28	0.29	0.28	0.72	0.46	103	38	31	b
04/09/2013	0.28	0.32	0.27	0.29	0.28	0.75	0.48	69	38	31	b
04/10/2013	0.27	0.32	0.27	0.30	0.28	0.79	0.48	63	39	31	b
04/11/2013	0.27	0.31	0.27	0.29	0.28	0.70	0.48	70	38	31	b
04/12/2013	0.27	0.31	0.27	0.29	0.26	0.69	0.47	66	38	31	b
04/13/2013	0.26	0.31	0.27	0.29	0.27	0.69	0.47	61	37	34	b
04/14/2013	0.27	0.30	0.26	0.28	0.30	0.71	0.47	57	36	34	b
04/15/2013	0.27	0.28	0.26	0.28	0.31	0.57	0.76	69	35	36	b
04/16/2013	0.27	0.29	0.26	0.29	0.31	0.68	0.86	51	36	37	b
04/17/2013	0.26	0.29	0.26	0.28	0.33	0.68	0.88	36	35	35	b
04/18/2013	0.25	0.28	0.25	0.28	0.34	0.68	0.86	31	35	37	b
04/19/2013	0.25	0.28	0.26	0.28	0.34	0.61	0.81	34	34	38	b
04/20/2013	0.25	0.29	0.26	0.27	0.34	0.57	0.75	54	33	37	b
04/21/2013	0.25	0.29	0.25	0.27	0.32	0.51	0.68	124	32	38	b
04/22/2013	0.24	0.29	0.25	0.27	0.33	0.46	0.60	206	32	37	b
04/23/2013	0.24	0.29	0.25	0.27	0.33	0.43	0.50	298	31	37	b

Electrical Conductivity (EC) units: milliSiemens per Centimeter

Chloride (Cl) units: milligrams per liter

md : mean daily

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e : estimated value

Antioch and Bacon Island mdCl are calculated from the respective mdEC values.

Coordinated Operation Agreement Delta Status:

c = excess Delta conditions

b = balanced Delta cond. w/ no storage withdrawal

s = balanced Delta cond. w/ storage withdrawal

Excess Delta conditions with restrictions:

f = fish concerns

r = E/I ratio concerns

Delta Water Quality Conditions

South Delta Stations

Date	Vernalis		Brandt Bridge		Old River Near Tracy		Old River Near Middle River	
	md EC	30 day avg	md EC	30 day avg	md EC	30 day avg	md EC	30 day avg
03/25/2013	0.97	0.78	0.93	0.75	1.07	0.88	0.94	0.71
03/26/2013	0.99	0.79	0.93	0.77	1.11	0.90	0.98	0.73
03/27/2013	0.98	0.80	0.94	0.78	1.11	0.91	0.97	0.74
03/28/2013	1.02	0.81	0.94	0.79	1.14	0.92	0.96	0.75
03/29/2013	0.96	0.82	0.93	0.80	1.20	0.93	0.96	0.76
03/30/2013	0.91	0.83	0.90	0.81	1.30	0.95	1.02	0.78
03/31/2013	0.87	0.84	0.89	0.82	1.30	0.97	0.99	0.79
04/01/2013	0.81	0.85	0.93	0.83	1.21	0.98	0.94	0.80
04/02/2013	0.78	0.85	0.94	0.84	1.21	0.99	0.89	0.80
04/03/2013	0.79	0.85	0.89	0.84	1.14	1.01	0.81	0.81
04/04/2013	0.85	0.86	0.84	0.85	1.11	1.02	0.82	0.81
04/05/2013	0.82	0.86	0.83	0.85	1.09	1.02	0.88	0.82
04/06/2013	0.83	0.87	0.87	0.86	1.05	1.03	0.89	0.82
04/07/2013	0.82	0.87	0.88	0.86	1.02	1.04	0.89	0.83
04/08/2013	0.82	0.87	0.88	0.87	1.04	1.05	0.90	0.84
04/09/2013	0.83	0.88	0.89	0.87	1.02	1.06	0.90	0.84
04/10/2013	0.83	0.88	0.90	0.88	1.06	1.06	0.93	0.85
04/11/2013	0.81	0.88	0.91	0.88	1.13	1.07	0.94	0.86
04/12/2013	0.76	0.88	0.93	0.89	1.16	1.08	0.95	0.87
04/13/2013	0.75	0.87	0.94	0.89	1.15	1.09	0.94	0.88
04/14/2013	0.73	0.87	0.94	0.90	1.16	1.09	0.88	0.89
04/15/2013	0.67	0.86	0.92	0.90	1.13	1.10	0.87	0.90
04/16/2013	0.62	0.85	0.88	0.90	1.07	1.10	0.79	0.90
04/17/2013	0.48	0.84	0.84	0.90	1.02	1.10	0.76	0.90
04/18/2013	0.43	0.83	0.76	0.90	1.02	1.11	0.63	0.90
04/19/2013	0.35	0.81	0.65	0.89	1.04	1.11	0.55	0.89
04/20/2013	0.39	0.79	0.52	0.88	0.90	1.10	0.40	0.87
04/21/2013	0.30	0.77	0.41	0.86	0.76	1.09	0.43	0.85
04/22/2013	0.30	0.75	0.42	0.84	0.64	1.08	0.33	0.84
04/23/2013	0.27	0.72	0.32	0.82	0.62	1.07	0.31	0.81

Electrical Conductivity (EC) units: milliSiemens per Centimeter

md : mean daily

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e : estimated value

Compliance Standards

for the Sacramento - San Joaquin Delta and Suisun Marsh

Thursday, April 25, 2013

Criteria	Standard	Status
Flow/Operational		
% of inflow diverted	35 %	16 %
Vernalis Base Flow : Monthly average *	>= 1,140 or 710 cfs	1,850 cfs
7 Day average *	>=912 or 568 cfs	2,784 cfs
Habitat Protection, X2 / Flow	19 days at Chipps Island 30 days at Collinsville	21 days 25 days

Water Quality

Days @ CCWD PP#1 w/ chlorides <= 150 mg/l	165 days	115 days
Export Areas for SWP, CVP, CCWD, et al	<= 250 mg/l Cl	36 mg/l
14dm EC at Emmaton	<= 0.45 mS/cm	0.32 mS/cm
14dm EC at Jersey Point	<= 0.45 mS/cm	0.26 mS/cm
Maximum 30 day running average of mean daily EC at:		
Vernalis	<=1.0 mS/cm	0.7 mS/cm
Brandt Bridge	<= 1.0 mS/cm	0.8 mS/cm
Old River Near Tracy	<=1.0 mS/cm	1.0 mS/cm
Old River Near Middle River	<=1.0 mS/cm	0.8 mS/cm

SUISUN MARSH:

Suisun Marsh Salinity Control Gates : 3 Open / 0 Closed / 0 Full Tide Open
Flashboard Status : In
Boat Lock Status : Open

California Hydrologic Conditions: (California Cooperative Snow Surveys Forecast, April 1, 2013)

Previous Month's Index (8RI for Mar.): 1.713 MAF

Water Year Type: Dry

Sacramento valley water year type index (40/30/30) @ 50%:6.0 MAF (Dry)

San Joaquin valley water year type index (60/20/20) @ 75%: 1.8 MAF (Critical)

Electrical Conductivity (EC) in milliSiemens per Centimeter.	Montezuma Slough Gate Operation:	Coordinated Operation Agreement Delta Status:
Chlorides (Cl) in milligrams per liter	Number of gates operating at either	c = excess Delta conditions
mht - mean high tides	Open, Closed, or Full Tide Open	b = balanced Delta cond. w/ no storage withdrawal
md - mean daily	Flashboard Status : In, Out, or Modified In	s = balanced Delta cond. w/ storage withdrawal
14 dm - fourteen day running mean	Boat Lock Status : Open or Closed	Excess Delta conditions with restrictions:
28 dm - twenty-eight day running mean		f = fish concerns
NR - No Record		r = E/I ratio concerns
NC - Average not computed due to insufficient data.		
BR : Below Rating		* NDOI, Rio Vista & Vernalis Flows:
e - estimated value		- Monthly average is progressive daily mean.
		- 7 day average is progressive daily mean for the first six days of the month.

Delta Water Quality Conditions

Date	Antioch Tides		Net Delta Outflow Index cfs	Martinez mdEC	Port Chicago		Mallard mdEC	Chippis Island		Collinsville	
	High	Half			mdEC	14dm		mdEC	14dm	mdEC	14dm
03/27/2013	5.52	3.85	9,270	21.05	11.96	9.26	5.17	4.63	2.91	1.82	1.04
03/28/2013	5.67	3.74	7,874	20.11	12.04	9.50	4.62	4.09	3.00	1.55	1.09
03/29/2013	5.74	3.74	7,427	20.00	12.03	9.75	4.88	4.35	3.14	1.71	1.14
03/30/2013	5.97	4.00	6,678	20.90	13.27	10.10	5.94	5.40	3.34	2.53	1.25
03/31/2013	6.20	4.10	7,625	21.81	13.34	10.47	6.17	5.63	3.59	2.58	1.38
04/01/2013	6.10	3.98	15,753	20.40	10.76	10.71	5.58	5.04	3.81	2.51	1.50
04/02/2013	5.89	3.95	18,249	19.07	12.11	11.05	4.96	4.43	4.00	2.09	1.60
04/03/2013	5.68	3.94	19,557	17.99	10.63	11.27	4.13	3.61	4.12	1.55	1.67
04/04/2013	5.66	4.03	20,780	18.47	10.05	11.40	3.74	3.24	4.17	1.22	1.71
04/05/2013	5.47	3.85	21,744	17.08	8.69	11.37	3.04	2.57	4.17	0.89	1.70
04/06/2013	5.36	3.78	19,484	16.65	8.40	11.25	2.61	2.18	4.10	0.68	1.69
04/07/2013	5.33	3.85	17,737	16.82	8.42	11.09	2.49	2.07	4.00	0.50	1.64
04/08/2013	6.02	4.02	17,513	15.14	7.68	10.80	2.38	1.97	3.83	0.63	1.57
04/09/2013	5.43	3.58	18,388	13.97	5.75	10.37	1.44	1.13	3.60	0.53	1.48
04/10/2013	5.54	3.68	16,350	13.62	6.35	9.96	1.66	1.32	3.36	0.39	1.38
04/11/2013	5.87	3.92	15,537	14.70	6.97	9.60	1.88	1.51	3.18	0.41	1.30
04/12/2013	5.93	4.06	15,110	14.94	7.18	9.26	1.77	1.41	2.97	0.46	1.21
04/13/2013	6.00	4.13	13,928	15.54	7.48	8.84	1.91	1.54	2.69	0.47	1.06
04/14/2013	5.87	4.21	13,201	15.01	7.03	8.39	1.90	1.53	2.40	0.48	0.91
04/15/2013	6.05	4.36	13,006	16.10	7.53	8.16	2.00	1.62	2.15	0.58	0.78
04/16/2013	5.30	3.81	11,996	12.75	5.11	7.66	1.18	0.91	1.90	0.40	0.66
04/17/2013	4.62	3.44	11,692	10.87	3.83	7.18	0.91	0.68	1.69	0.35	0.57
04/18/2013	4.51	3.45	10,332	14.05	6.29	6.91	1.32	1.03	1.53	0.33	0.51
04/19/2013	4.84	3.53	9,139	16.43	8.65	6.90	2.74	2.30	1.51	0.55	0.48
04/20/2013	4.93	3.50	8,211	18.80	11.88	7.15	4.52	3.99	1.64	1.65	0.55
04/21/2013	5.12	3.57	7,471	21.29	13.71	7.53	6.22	5.68	1.90	2.35	0.68
04/22/2013	5.33	3.66	7,059	22.73	15.38	8.08	6.75	6.22	2.20	3.03	0.85
04/23/2013	5.73	3.88	6,849	24.39	15.82	8.80	7.88	7.37	2.65	4.18	1.12
04/24/2013	6.07	4.19	6,605	25.78	18.18	9.65	9.84	9.43	3.23	5.31	1.47
04/25/2013	6.47	4.25	7,038	26.40	18.77	10.49	10.63	10.27	3.86	6.13	1.88

Antioch Tides measured in feet above mean sea level.

Net Delta Outflow Index calculated from equation as specified in D-1641, revised June 1995.

Chippis Island EC calculated from measurements recorded at Mallard Slough.

Electrical Conductivity (EC) units: milliSiemens per Centimeter

md : mean daily

14dm : fourteen day running mean

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e - estimated value

Delta Water Quality Conditions

Date	Antioch		Jersey Point		Emmaton		Cache Slough	Good Year Slough	Sunrise Club	Volanti Slough	Beldon Landing	Collinsville
	mdEC	14mdEC	mdEC	14mdEC	mdEC	14mdEC	mdEC	mhtEC	mhtEC	mhtEC	mhtEC	mhtEC
03/27/2013	0.86	0.63	0.32	0.31	0.26	0.22	0.62	8.32	7.05	7.38	6.30	2.12
03/28/2013	0.87	0.64	0.32	0.31	0.26	0.23	0.62	9.01	7.36	7.62	6.65	1.64
03/29/2013	0.93	0.66	0.32	0.31	0.27	0.23	0.56	9.27	7.44	7.77	7.17	2.22
03/30/2013	1.15	0.70	0.36	0.31	0.34	0.23	0.60	9.41	8.04	7.99	7.77	3.53
03/31/2013	1.28	0.74	0.38	0.32	0.36	0.24	0.64	9.60	8.27	8.00	7.87	3.38
04/01/2013	1.20	0.79	0.38	0.32	0.33	0.25	0.63	9.74	8.00	7.90	7.75	3.11
04/02/2013	1.01	0.82	0.36	0.33	0.29	0.26	0.53	9.77	7.51	7.61	7.52	2.60
04/03/2013	0.84	0.84	0.33	0.33	0.27	0.26	0.52	9.61	7.35	7.46	7.60	2.15
04/04/2013	0.77	0.86	0.32	0.33	0.26	0.26	0.57	9.47	7.28	7.48	7.69	1.53
04/05/2013	0.66	0.87	0.30	0.33	0.22	0.27	0.65	9.37	6.87	7.44	7.30	1.30
04/06/2013	0.58	0.88	0.29	0.33	0.21	0.27	0.63	9.27	6.78	7.23	7.32	1.08
04/07/2013	0.55	0.87	0.28	0.33	0.21	0.27	0.62	9.06	6.94	7.19	7.26	0.63
04/08/2013	0.54	0.86	0.29	0.32	0.22	0.27	0.61	8.94	6.75	7.06	7.37	1.11
04/09/2013	0.44	0.83	0.26	0.32	0.19	0.26	0.55	9.05	6.48	6.78	6.94	0.58
04/10/2013	0.42	0.80	0.26	0.32	0.19	0.26	0.55	8.39	6.17	6.56	7.11	0.53
04/11/2013	0.44	0.77	0.26	0.31	0.20	0.25	0.54	7.59	5.89	6.56	6.86	0.48
04/12/2013	0.43	0.74	0.26	0.31	0.20	0.25	0.53	6.84	5.87	6.37	6.58	0.53
04/13/2013	0.41	0.68	0.25	0.30	0.20	0.24	0.50	6.51	6.19	6.08	6.29	0.56
04/14/2013	0.40	0.62	0.25	0.29	0.21	0.23	0.45	6.80	6.01	6.06	6.22	0.67
04/15/2013	0.44	0.57	0.26	0.28	0.22	0.22	0.43	6.39	5.85	5.98	6.20	0.72
04/16/2013	0.38	0.52	0.24	0.27	0.19	0.21	0.39	6.58	5.80	6.01	6.10	0.45
04/17/2013	0.33	0.48	0.24	0.27	0.18	0.21	0.38	6.63	5.74	6.00	6.08	0.42
04/18/2013	0.32	0.45	0.23	0.26	0.18	0.20	0.37	6.20	5.51	5.95	5.98	0.37
04/19/2013	0.33	0.43	0.23	0.26	0.19	0.20	0.39	6.00	5.23	5.71	5.70	1.21
04/20/2013	0.39	0.42	0.23	0.25	0.20	0.20	0.39	5.83	5.06	5.62	5.55	2.04
04/21/2013	0.61	0.42	0.24	0.25	0.22	0.20	0.40	5.92	5.40	6.19	5.60	3.56
04/22/2013	0.87	0.44	0.24	0.25	0.25	0.20	0.42	6.13	5.97	6.77	5.93	4.39
04/23/2013	1.16	0.49	0.25	0.25	0.29	0.21	0.42	6.94	7.31	8.39	7.40	5.37
04/24/2013	1.93	0.60	0.30	0.25	0.71	0.25	0.42	8.71	8.59	10.03	9.00	6.92
04/25/2013	2.36	0.74	0.36	0.26	1.28	0.32	0.43	9.73	8.79	10.32	9.24	7.42

Electrical Conductivity (EC) units: milliSiemens per Centimeter

Chloride (Cl) units: milligrams per liter

mht : mean high tides

md : mean daily

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e : estimated value

Delta Water Quality Conditions

Date	Bethel Island mdEC	Farrar Park mdEC	Holland Tract mdEC	Bacon Island mdEC	Contra Costa mdEC	Clifton Court mdEC	Tracy Pumping Plant mdEC	Antioch mdCI	Bacon Island mdCI	Contra Costa mdCI	Delta Status
03/27/2013	0.29	0.32	0.28	0.28	0.30	0.39	0.50	205	34	32	r
03/28/2013	0.29	0.32	0.27	0.27	0.29	0.39	0.51	208	33	31	r
03/29/2013	0.29	0.32	0.27	0.27	0.29	0.39	0.52	225	33	31	r
03/30/2013	0.29	0.33	0.28	0.27	0.29	0.36	0.49	298	32	30	r
03/31/2013	0.29	0.33	0.28	0.27	0.28	0.42	0.51	337	32	30	r
04/01/2013	0.29	0.33	0.28	0.27	0.29	0.42	0.49	313	33	30	r
04/02/2013	0.29	0.33	0.28	0.28	0.29	0.66	0.50	251	34	30	r
04/03/2013	0.30	0.33	0.28	0.28	0.29	0.72	0.48	199	35	29	b
04/04/2013	0.29	0.33	0.28	0.29	0.29	0.69	0.48	174	36	30	b
04/05/2013	0.30	0.34	0.28	0.29	0.29	0.72	0.48	140	37	30	b
04/06/2013	0.29	0.34	0.28	0.29	0.29	0.76	0.48	114	38	31	b
04/07/2013	0.29	0.34	0.28	0.30	0.29	0.77	0.48	105	39	31	b
04/08/2013	0.29	0.33	0.28	0.29	0.28	0.72	0.46	103	38	31	b
04/09/2013	0.28	0.32	0.27	0.29	0.28	0.75	0.48	69	38	31	b
04/10/2013	0.27	0.32	0.27	0.30	0.28	0.79	0.48	63	39	31	b
04/11/2013	0.27	0.31	0.27	0.29	0.28	0.70	0.48	70	38	31	b
04/12/2013	0.27	0.31	0.27	0.29	0.26	0.69	0.47	66	38	31	b
04/13/2013	0.26	0.31	0.27	0.29	0.27	0.69	0.47	61	37	34	b
04/14/2013	0.27	0.30	0.26	0.28	0.30	0.71	0.47	57	36	34	b
04/15/2013	0.27	0.28	0.26	0.28	0.31	0.57	0.76	69	35	36	b
04/16/2013	0.27	0.29	0.26	0.29	0.31	0.68	0.86	51	36	37	b
04/17/2013	0.26	0.29	0.26	0.28	0.33	0.68	0.88	36	35	35	b
04/18/2013	0.25	0.28	0.25	0.28	0.34	0.68	0.86	31	35	37	b
04/19/2013	0.25	0.28	0.26	0.28	0.34	0.61	0.81	34	34	38	b
04/20/2013	0.25	0.29	0.26	0.27	0.34	0.57	0.75	54	33	37	b
04/21/2013	0.25	0.29	0.25	0.27	0.32	0.51	0.68	124	32	38	b
04/22/2013	0.24	0.29	0.25	0.27	0.33	0.46	0.60	206	32	37	b
04/23/2013	0.24	0.29	0.25	0.27	0.33	0.43	0.50	298	31	37	b
04/24/2013	0.25	0.28	0.25	0.27	0.32	0.40	0.49	545	31	37	b
04/25/2013	0.26	0.27	0.25	0.26	0.32	0.38	0.42	683	31	36	b

Electrical Conductivity (EC) units: milliSiemens per Centimeter

Chloride (Cl) units: milligrams per liter

md : mean daily

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e : estimated value

Antioch and Bacon Island mdCI are calculated from the respective mdEC values.

Coordinated Operation Agreement Delta Status:

c = excess Delta conditions

b = balanced Delta cond. w/ no storage withdrawal

s = balanced Delta cond. w/ storage withdrawal

Excess Delta conditions with restrictions:

f = fish concerns

r = E/I ratio concerns

Delta Water Quality Conditions

South Delta Stations

Date	Vernalis		Brandt Bridge		Old River Near Tracy		Old River Near Middle River	
	md EC	30 day avg	md EC	30 day avg	md EC	30 day avg	md EC	30 day avg
03/27/2013	0.98	0.80	0.94	0.78	1.11	0.91	0.97	0.74
03/28/2013	1.02	0.81	0.94	0.79	1.14	0.92	0.96	0.75
03/29/2013	0.96	0.82	0.93	0.80	1.20	0.93	0.96	0.76
03/30/2013	0.91	0.83	0.90	0.81	1.30	0.95	1.02	0.78
03/31/2013	0.87	0.84	0.89	0.82	1.30	0.97	0.99	0.79
04/01/2013	0.81	0.85	0.93	0.83	1.21	0.98	0.94	0.80
04/02/2013	0.78	0.85	0.94	0.84	1.21	0.99	0.89	0.80
04/03/2013	0.79	0.85	0.89	0.84	1.14	1.01	0.81	0.81
04/04/2013	0.85	0.86	0.84	0.85	1.11	1.02	0.82	0.81
04/05/2013	0.82	0.86	0.83	0.85	1.09	1.02	0.88	0.82
04/06/2013	0.83	0.87	0.87	0.86	1.05	1.03	0.89	0.82
04/07/2013	0.82	0.87	0.88	0.86	1.02	1.04	0.89	0.83
04/08/2013	0.82	0.87	0.88	0.87	1.04	1.05	0.90	0.84
04/09/2013	0.83	0.88	0.89	0.87	1.02	1.06	0.90	0.84
04/10/2013	0.83	0.88	0.90	0.88	1.06	1.06	0.93	0.85
04/11/2013	0.81	0.88	0.91	0.88	1.13	1.07	0.94	0.86
04/12/2013	0.76	0.88	0.93	0.89	1.16	1.08	0.95	0.87
04/13/2013	0.75	0.87	0.94	0.89	1.15	1.09	0.94	0.88
04/14/2013	0.73	0.87	0.94	0.90	1.16	1.09	0.88	0.89
04/15/2013	0.67	0.86	0.92	0.90	1.13	1.10	0.87	0.90
04/16/2013	0.62	0.85	0.88	0.90	1.07	1.10	0.79	0.90
04/17/2013	0.48	0.84	0.84	0.90	1.02	1.10	0.76	0.90
04/18/2013	0.43	0.83	0.76	0.90	1.02	1.11	0.63	0.90
04/19/2013	0.35	0.81	0.65	0.89	1.04	1.11	0.55	0.89
04/20/2013	0.39	0.79	0.52	0.88	0.90	1.10	0.40	0.87
04/21/2013	0.30	0.77	0.41	0.86	0.76	1.09	0.43	0.85
04/22/2013	0.30	0.75	0.42	0.84	0.64	1.08	0.33	0.84
04/23/2013	0.27	0.72	0.32	0.82	0.62	1.07	0.31	0.81
04/24/2013	0.25	0.70	0.30	0.80	0.47	1.05	0.26	0.79
04/25/2013	0.24	0.68	0.24	0.78	0.41	1.02	0.22	0.77

Electrical Conductivity (EC) units: milliSiemens per Centimeter

md : mean daily

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e : estimated value

Compliance Standards

for the Sacramento - San Joaquin Delta and Suisun Marsh
Tuesday, April 30, 2013

Criteria	Standard	Status
Flow/Operational		
% of inflow diverted	35 %	23 %
Vernalis Base Flow : Monthly average *	>= 1,140 or 710 cfs	2,193 cfs
7 Day average *	>=912 or 568 cfs	3,789 cfs
Habitat Protection, X2 / Flow	19 days at Chipps Island	21 days
	30 days at Collinsville	30 days
Water Quality		
Days @ CCWD PP#1 w/ chlorides <= 150 mg/l	165 days	120 days
Export Areas for SWP, CVP, CCWD, et al	<= 250 mg/l Cl	36 mg/l
14dm EC at Emmaton	<= 0.45 mS/cm	0.56 mS/cm
14dm EC at Jersey Point	<= 0.45 mS/cm	0.29 mS/cm
Maximum 30 day running average of mean daily EC at:		
Vernalis	<=1.0 mS/cm	0.6 mS/cm
Brandt Bridge	<= 1.0 mS/cm	0.7 mS/cm
Old River Near Tracy	<=1.0 mS/cm	0.9 mS/cm
Old River Near Middle River	<=1.0 mS/cm	0.6 mS/cm
SUISUN MARSH:		
Suisun Marsh Salinity Control Gates :	3 Open / 0 Closed / 0 Full Tide Open	
Flashboard Status : In		
Boat Lock Status : Open		

California Hydrologic Conditions: (California Cooperative Snow Surveys Forecast, April 1, 2013)

Previous Month's Index (8RI for Mar.): 1.713 MAF

Water Year Type: Dry

Sacramento valley water year type index (40/30/30) @ 50%: 6.0 MAF (Dry)

San Joaquin valley water year type index (60/20/20) @ 75%: 1.8 MAF (Critical)

Electrical Conductivity (EC) in milliSiemens per Centimeter.

Chlorides (Cl) in milligrams per liter

mht - mean high tides

md - mean daily

14 dm - fourteen day running mean

28 dm - twenty-eight day running mean

NR - No Record

NC - Average not computed due to insufficient data.

BR - Below Rating

e - estimated value

Montezuma Slough Gate Operation:

Number of gates operating at either

Open, Closed, or Full Tide Open

Flashboard Status : In, Out, or Modified In

Boat Lock Status : Open or Closed

Coordinated Operation Agreement Delta Status:

c = excess Delta conditions

b = balanced Delta cond. w/ no storage withdrawal

s = balanced Delta cond. w/ storage withdrawal

Excess Delta conditions with restrictions:

f = fish concerns

r = E/I ratio concerns

* NDOI, Rio Vista & Vernalis Flows;

- Monthly average is progressive daily mean.

- 7 day average is progressive daily mean for the first six days of the month.

Delta Water Quality Conditions

Date	Antioch Tides		Net Delta Outflow Index cfs	Martinez mdEC	Port Chicago		Mallard mdEC	Chippis Island		Collinsville	
	High	Half			mdEC	14dm		mdEC	14dm	mdEC	14dm
04/01/2013	6.10	3.98	15,753	20.40	10.76	10.71	5.58	5.04	3.81	2.51	1.50
04/02/2013	5.89	3.95	18,249	19.07	12.11	11.05	4.96	4.43	4.00	2.09	1.60
04/03/2013	5.68	3.94	19,557	17.99	10.63	11.27	4.13	3.61	4.12	1.55	1.67
04/04/2013	5.66	4.03	20,780	18.47	10.05	11.40	3.74	3.24	4.17	1.22	1.71
04/05/2013	5.47	3.85	21,744	17.08	8.69	11.37	3.04	2.57	4.17	0.89	1.70
04/06/2013	5.36	3.78	19,484	16.65	8.40	11.25	2.61	2.18	4.10	0.68	1.69
04/07/2013	5.33	3.85	17,737	16.82	8.42	11.09	2.49	2.07	4.00	0.50	1.64
04/08/2013	6.02	4.02	17,513	15.14	7.68	10.80	2.38	1.97	3.83	0.63	1.57
04/09/2013	5.43	3.58	18,388	13.97	5.75	10.37	1.44	1.13	3.60	0.53	1.48
04/10/2013	5.54	3.68	16,350	13.62	6.35	9.96	1.66	1.32	3.36	0.39	1.38
04/11/2013	5.87	3.92	15,537	14.70	6.97	9.60	1.88	1.51	3.18	0.41	1.30
04/12/2013	5.93	4.06	15,110	14.94	7.18	9.26	1.77	1.41	2.97	0.46	1.21
04/13/2013	6.00	4.13	13,928	15.54	7.48	8.84	1.91	1.54	2.69	0.47	1.06
04/14/2013	5.87	4.21	13,201	15.01	7.03	8.39	1.90	1.53	2.40	0.48	0.91
04/15/2013	6.05	4.36	13,006	16.10	7.53	8.16	2.00	1.62	2.15	0.58	0.78
04/16/2013	5.30	3.81	11,996	12.75	5.11	7.66	1.18	0.91	1.90	0.40	0.66
04/17/2013	4.62	3.44	11,692	10.87	3.83	7.18	0.91	0.68	1.69	0.35	0.57
04/18/2013	4.51	3.45	10,332	14.05	6.29	6.91	1.32	1.03	1.53	0.33	0.51
04/19/2013	4.84	3.53	9,139	16.43	8.65	6.90	2.74	2.30	1.51	0.55	0.48
04/20/2013	4.93	3.50	8,211	18.80	11.88	7.15	4.52	3.99	1.64	1.65	0.55
04/21/2013	5.12	3.57	7,471	21.29	13.71	7.53	6.22	5.68	1.90	2.35	0.68
04/22/2013	5.33	3.66	7,059	22.73	15.38	8.08	6.75	6.22	2.20	3.03	0.85
04/23/2013	5.73	3.88	6,849	24.39	15.82	8.80	7.88	7.37	2.65	4.18	1.12
04/24/2013	6.07	4.19	6,605	25.78	18.18	9.65	9.84	9.43	3.23	5.31	1.47
04/25/2013	6.47	4.25	7,038	26.40	18.77	10.49	10.63	10.27	3.86	6.13	1.88
04/26/2013	6.32	4.08	7,896	25.52	17.32	11.21	9.19	8.74	4.38	5.33	2.22
04/27/2013	6.31	4.02	9,030	24.92	16.30	11.84	8.76	8.29	4.86	4.95	2.54
04/28/2013	6.36	4.08	10,396	24.58	15.35	12.44	8.30	7.81	5.31	4.66	2.84
04/29/2013	6.40	4.24	10,578	24.44	14.82	12.96	8.21	7.72	5.75	4.38	3.11
04/30/2013	6.24	4.15	10,798	23.98	13.59	13.56	7.92	7.42	6.21	4.37	3.40

Antioch Tides measured in feet above mean sea level.

Net Delta Outflow Index calculated from equation as specified in D-1641, revised June 1995.

Chippis Island EC calculated from measurements recorded at Mallard Slough.

Electrical Conductivity (EC) units: milliSiemens per Centimeter

md : mean daily

14dm : fourteen day running mean

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e - estimated value

Delta Water Quality Conditions

Date	Antioch		Jersey Point		Emmaton		Cache Slough	Good Year Slough	Sunrise Club	Volanti Slough	Beldon Landing	Collinsville
	mdEC	14mdEC	mdEC	14mdEC	mdEC	14mdEC	mdEC	mhtEC	mhtEC	mhtEC	mhtEC	mhtEC
04/01/2013	1.20	0.79	0.38	0.32	0.33	0.25	0.63	9.74	8.00	7.90	7.75	3.11
04/02/2013	1.01	0.82	0.36	0.33	0.29	0.26	0.53	9.77	7.51	7.61	7.52	2.60
04/03/2013	0.84	0.84	0.33	0.33	0.27	0.26	0.52	9.61	7.35	7.46	7.60	2.15
04/04/2013	0.77	0.86	0.32	0.33	0.26	0.26	0.57	9.47	7.28	7.48	7.69	1.53
04/05/2013	0.66	0.87	0.30	0.33	0.22	0.27	0.65	9.37	6.87	7.44	7.30	1.30
04/06/2013	0.58	0.88	0.29	0.33	0.21	0.27	0.63	9.27	6.78	7.23	7.32	1.08
04/07/2013	0.55	0.87	0.28	0.33	0.21	0.27	0.62	9.06	6.94	7.19	7.26	0.63
04/08/2013	0.54	0.86	0.29	0.32	0.22	0.27	0.61	8.94	6.75	7.06	7.37	1.11
04/09/2013	0.44	0.83	0.26	0.32	0.19	0.26	0.55	9.05	6.48	6.78	6.94	0.58
04/10/2013	0.42	0.80	0.26	0.32	0.19	0.26	0.55	8.39	6.17	6.56	7.11	0.53
04/11/2013	0.44	0.77	0.26	0.31	0.20	0.25	0.54	7.59	5.89	6.56	6.86	0.48
04/12/2013	0.43	0.74	0.26	0.31	0.20	0.25	0.53	6.84	5.87	6.37	6.58	0.53
04/13/2013	0.41	0.68	0.25	0.30	0.20	0.24	0.50	6.51	6.19	6.08	6.29	0.56
04/14/2013	0.40	0.62	0.25	0.29	0.21	0.23	0.45	6.60	6.01	6.06	6.22	0.67
04/15/2013	0.44	0.57	0.26	0.28	0.22	0.22	0.43	6.39	5.85	5.98	6.20	0.72
04/16/2013	0.38	0.52	0.24	0.27	0.19	0.21	0.39	6.58	5.80	6.01	6.10	0.45
04/17/2013	0.33	0.48	0.24	0.27	0.18	0.21	0.38	6.63	5.74	6.00	6.08	0.42
04/18/2013	0.32	0.45	0.23	0.26	0.18	0.20	0.37	6.20	5.51	5.95	5.98	0.37
04/19/2013	0.33	0.43	0.23	0.26	0.19	0.20	0.39	6.00	5.23	5.71	5.70	1.21
04/20/2013	0.39	0.42	0.23	0.25	0.20	0.20	0.39	5.83	5.06	5.62	5.55	2.04
04/21/2013	0.61	0.42	0.24	0.25	0.22	0.20	0.40	5.92	5.40	6.19	5.60	3.56
04/22/2013	0.87	0.44	0.24	0.25	0.25	0.20	0.42	6.13	5.97	6.77	5.93	4.39
04/23/2013	1.16	0.49	0.25	0.25	0.29	0.21	0.42	6.94	7.31	8.39	7.40	5.37
04/24/2013	1.93	0.60	0.30	0.25	0.71	0.25	0.42	8.71	8.59	10.03	9.00	6.92
04/25/2013	2.36	0.74	0.36	0.26	1.28	0.32	0.43	9.73	8.79	10.32	9.24	7.42
04/26/2013	1.91	0.85	0.33	0.26	1.06	0.39	0.43	10.74	9.36	10.77	9.23	6.54
04/27/2013	1.87	0.95	0.34	0.27	1.00	0.44	0.42	11.60	9.71	11.16	9.59	5.86
04/28/2013	1.93	1.06	0.35	0.27	0.89	0.49	0.43	11.74	9.83	10.73	10.02	5.61
04/29/2013	2.04	1.17	0.36	0.28	0.75	0.53	0.45	11.84	10.00	11.33	10.34	5.73
04/30/2013	1.90	1.28	0.37	0.29	0.64	0.56	0.46	11.91	9.92	11.63	10.50	5.40

Electrical Conductivity (EC) units: milliSiemens per Centimeter

Chloride (Cl) units: milligrams per liter

mht : mean high tides

md : mean daily

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e : estimated value

Delta Water Quality Conditions

Date	Bethel Island mdEC	Farrar Park mdEC	Holland Tract mdEC	Bacon Island mdEC	Contra Costa mdEC	Clifton Court mdEC	Tracy Pumping Plant mdEC	Antioch mdCl	Bacon Island mdCl	Contra Costa mdCl	Delta Status
04/01/2013	0.29	0.33	0.28	0.27	0.29	0.42	0.49	313	33	30	r
04/02/2013	0.29	0.33	0.28	0.28	0.29	0.66	0.50	251	34	30	r
04/03/2013	0.30	0.33	0.28	0.28	0.29	0.72	0.48	199	35	29	b
04/04/2013	0.29	0.33	0.28	0.29	0.29	0.69	0.48	174	36	30	b
04/05/2013	0.30	0.34	0.28	0.29	0.29	0.72	0.48	140	37	30	b
04/06/2013	0.29	0.34	0.28	0.29	0.29	0.76	0.48	114	38	31	b
04/07/2013	0.29	0.34	0.28	0.30	0.29	0.77	0.48	105	39	31	b
04/08/2013	0.29	0.33	0.28	0.29	0.28	0.72	0.46	103	38	31	b
04/09/2013	0.28	0.32	0.27	0.29	0.28	0.75	0.48	69	38	31	b
04/10/2013	0.27	0.32	0.27	0.30	0.28	0.79	0.48	63	39	31	b
04/11/2013	0.27	0.31	0.27	0.29	0.28	0.70	0.48	70	38	31	b
04/12/2013	0.27	0.31	0.27	0.29	0.26	0.69	0.47	66	38	31	b
04/13/2013	0.26	0.31	0.27	0.29	0.27	0.69	0.47	61	37	34	b
04/14/2013	0.27	0.30	0.26	0.28	0.30	0.71	0.47	57	36	34	b
04/15/2013	0.27	0.28	0.26	0.28	0.31	0.57	0.76	69	35	36	b
04/16/2013	0.27	0.29	0.26	0.29	0.31	0.68	0.86	51	36	37	b
04/17/2013	0.26	0.29	0.26	0.28	0.33	0.68	0.88	36	35	35	f
04/18/2013	0.25	0.28	0.25	0.28	0.34	0.68	0.86	31	35	37	f
04/19/2013	0.25	0.28	0.26	0.28	0.34	0.61	0.81	34	34	38	f
04/20/2013	0.25	0.29	0.26	0.27	0.34	0.57	0.75	54	33	37	f
04/21/2013	0.25	0.29	0.25	0.27	0.32	0.51	0.68	124	32	38	f
04/22/2013	0.24	0.29	0.25	0.27	0.33	0.46	0.60	206	32	37	f
04/23/2013	0.24	0.29	0.25	0.27	0.33	0.43	0.50	298	31	37	f
04/24/2013	0.25	0.28	0.25	0.27	0.32	0.40	0.49	545	31	37	f
04/25/2013	0.26	0.27	0.25	0.26	0.32	0.38	0.42	683	31	36	f
04/26/2013	0.26	0.29	0.26	0.27	0.31	0.35	0.43	537	32	36	b
04/27/2013	0.25	0.29	0.26	0.28	0.32	0.32	0.40	524	34	36 e	b
04/28/2013	0.26	0.29	0.26	0.28	0.32	0.32	0.35	544	35	36 e	b
04/29/2013	0.26	0.30	0.26	0.28	0.29	0.31	0.32	581	35	36	b
04/30/2013	0.26	0.30	0.26	0.28	0.31	0.34	0.33	535	34	36	b

Electrical Conductivity (EC) units: milliSiemens per Centimeter

Chloride (Cl) units: milligrams per liter

md : mean daily

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e : estimated value

Antioch and Bacon Island mdCl are calculated from the respective mdEC values.

Coordinated Operation Agreement Delta Status:

c = excess Delta conditions

b = balanced Delta cond. w/ no storage withdrawal

s = balanced Delta cond. w/ storage withdrawal

Excess Delta conditions with restrictions:

f = fish concerns

r = E/I ratio concerns

Delta Water Quality Conditions

South Delta Stations

Date	Vernalis		Brandt Bridge		Old River Near Tracy		Old River Near Middle River	
	md EC	30 day avg	md EC	30 day avg	md EC	30 day avg	md EC	30 day avg
04/01/2013	0.81	0.85	0.93	0.83	1.21	0.98	0.94	0.80
04/02/2013	0.78	0.85	0.94	0.84	1.21	0.99	0.89	0.80
04/03/2013	0.79	0.85	0.89	0.84	1.14	1.01	0.81	0.81
04/04/2013	0.85	0.86	0.84	0.85	1.11	1.02	0.82	0.81
04/05/2013	0.82	0.86	0.83	0.85	1.09	1.02	0.88	0.82
04/06/2013	0.83	0.87	0.87	0.86	1.05	1.03	0.89	0.82
04/07/2013	0.82	0.87	0.88	0.86	1.02	1.04	0.89	0.83
04/08/2013	0.82	0.87	0.88	0.87	1.04	1.05	0.90	0.84
04/09/2013	0.83	0.88	0.89	0.87	1.02	1.06	0.90	0.84
04/10/2013	0.83	0.88	0.90	0.88	1.06	1.06	0.93	0.85
04/11/2013	0.81	0.88	0.91	0.88	1.13	1.07	0.94	0.86
04/12/2013	0.76	0.88	0.93	0.89	1.16	1.08	0.95	0.87
04/13/2013	0.75	0.87	0.94	0.89	1.15	1.09	0.94	0.88
04/14/2013	0.73	0.87	0.94	0.90	1.16	1.09	0.88	0.89
04/15/2013	0.67	0.86	0.92	0.90	1.13	1.10	0.87	0.90
04/16/2013	0.62	0.85	0.88	0.90	1.07	1.10	0.79	0.90
04/17/2013	0.48	0.84	0.84	0.90	1.02	1.10	0.76	0.90
04/18/2013	0.43	0.83	0.76	0.90	1.02	1.11	0.63	0.90
04/19/2013	0.35	0.81	0.65	0.89	1.04	1.11	0.55	0.89
04/20/2013	0.39	0.79	0.52	0.88	0.90	1.10	0.40	0.87
04/21/2013	0.30	0.77	0.41	0.86	0.76	1.09	0.43	0.85
04/22/2013	0.30	0.75	0.42	0.84	0.64	1.08	0.33	0.84
04/23/2013	0.27	0.72	0.32	0.82	0.62	1.07	0.31	0.81
04/24/2013	0.25	0.70	0.30	0.80	0.47	1.05	0.26	0.79
04/25/2013	0.24	0.68	0.24	0.78	0.41	1.02	0.22	0.77
04/26/2013	0.24	0.65	0.22	0.76	0.34	1.00	0.21	0.74
04/27/2013	0.23	0.62	0.21	0.73	0.38	0.97	0.21	0.72
04/28/2013	0.23	0.60	0.21	0.71	0.38	0.94	0.21	0.69
04/29/2013	0.22	0.58	0.21	0.68	0.37	0.91	0.20	0.66
04/30/2013	0.22	0.56	0.20	0.66	0.35	0.88	0.20	0.64

Electrical Conductivity (EC) units: milliSiemens per Centimeter

md : mean daily

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e : estimated value

Compliance Standards

for the Sacramento - San Joaquin Delta and Suisun Marsh

Tuesday, June 04, 2013

Criteria	Standard	Status
Flow/Operational		
% of inflow diverted	35 %	14 %
Vernalis Base Flow : Monthly average *	>= 710 cfs	900 cfs
7 Day average *	>= 568 cfs	900 cfs
Habitat Protection, X2 / Flow	30 days at Collinsville	4 days

Water Quality

Days @ CCWD PP#1 w/ chlorides <= 150 mg/l	165 days	155 days
Export Areas for SWP, CVP, CCWD, et al	<= 250 mg/l Cl	41 mg/l
14dm EC at Emmaton	<= 0.45 mS/cm	0.39 mS/cm
14dm EC at Jersey Point	<= 0.45 mS/cm	0.33 mS/cm
Maximum 30 day running average of mean daily EC at:		
Vernalis	<=0.7 mS/cm	0.4 mS/cm
Brandt Bridge	<= 0.7 mS/cm	0.4 mS/cm
Old River Near Tracy	<=0.7 mS/cm	0.6 mS/cm
Old River Near Middle River	<=0.7 mS/cm	mS/cm

SUISUN MARSH:

Suisun Marsh Salinity Control Gates :	1 Open / 0 Closed / 2 Full Tide Open
Flashboard Status : In	
Boat Lock Status : Open	

California Hydrologic Conditions: (California Cooperative Snow Surveys Forecast, May 1, 2013)

Previous Month's Index (8RI for April.): 2.023 MAF

Water Year Type: Dry

Sacramento valley water year type index (40/30/30) @ 50%:5.8 MAF (Dry)

San Joaquin valley water year type index (60/20/20) @ 75%: 1.6 MAF (Critical)

Electrical Conductivity (EC) in milliSiemens per Centimeter,
 Chlorides (Cl) in milligrams per liter
 mht - mean high tides
 md - mean daily
 14 dm - fourteen day running mean
 28 dm - twenty-eight day running mean
 NR - No Record
 NC - Average not computed due to insufficient data.
 BR - Below Rating
 e - estimated value

Montezuma Slough Gate Operation:
 Number of gates operating at either
 Open, Closed, or Full Tide Open
 Flashboard Status : In, Out, or Modified In
 Boat Lock Status : Open or Closed

Coordinated Operation Agreement Delta Status:
 c = excess Delta conditions
 b = balanced Delta cond. w/ no storage withdrawal
 s = balanced Delta cond. w/ storage withdrawal
 Excess Delta conditions with restrictions:
 f = fish concerns
 r = E/I ratio concerns

* NDOI, Rio Vista & Vernalis Flows:
 - Monthly average is progressive daily mean.
 - 7 day average is progressive daily mean for the first six days of the month.

Delta Water Quality Conditions

Date	Antioch Tides		Net Delta Outflow Index cfs	Martinez mdEC	Port Chicago		Mallard mdEC	Chippis Island		Collinsville	
	High	Half			mdEC	14dm		mdEC	14dm	mdEC	14dm
05/06/2013	6.15	4.19	9,388	24.14	11.38	14.50	8.18	7.69	7.76	4.51	4.50
05/07/2013	6.06	4.10	9,350	23.80	11.10	14.17	8.04	7.54	7.77	4.44	4.52
05/08/2013	6.01	4.07	9,129	24.07	10.98	13.65	8.21	7.71	7.65	4.37	4.46
05/09/2013	6.05	4.08	9,695	23.57	9.40	12.98	7.95	7.45	7.45	4.07	4.31
05/10/2013	6.06	4.08	10,994	22.85	8.69	12.37	7.50	6.98	7.32	3.91	4.21
05/11/2013	6.04	4.03	11,743	21.76	7.75	11.76	6.63	6.09	7.17	3.39	4.10
05/12/2013	5.98	4.06	11,861	20.78	7.95	11.23	6.40	5.87	7.03	3.28	4.00
05/13/2013	5.94	4.12	11,402	21.10	7.48	10.70	6.19	5.65	6.88	3.12	3.91
05/14/2013	5.80	4.16	11,153	21.37	6.97	10.23	6.22	5.68	6.76	2.89	3.80
05/15/2013	5.72	4.15	10,114	21.13	5.60	9.82	6.14	5.60	6.72	2.74	3.71
05/16/2013	5.26	4.02	9,550	21.54	2.97	9.16	5.75	5.21	6.69	2.87	3.70
05/17/2013	5.18	3.95	8,987	21.04	2.33	8.46	5.39	4.85	6.60	1.99	3.63
05/18/2013	5.07	3.63	9,399	18.61	2.09	7.69	4.55	4.02	6.38	1.69	3.47
05/19/2013	5.27	3.48	9,727	18.03	1.99	6.91	4.14	3.62	6.00	1.52	3.20
05/20/2013	5.64	3.65	9,987	19.36	2.12	6.24	4.63	4.10	5.74	1.81	3.01
05/21/2013	5.76	3.94	9,870	23.02	2.39	5.62	6.82	6.29	5.65	2.74	2.88
05/22/2013	5.98	3.76	9,066	22.35	2.32	5.00	6.13	5.59	5.50	2.58	2.76
05/23/2013	5.96	3.77	9,551	22.31	2.36	4.50	6.24	5.70	5.37	2.49	2.64
05/24/2013	6.16	3.92	9,224	23.18	2.30	4.04	6.72	6.19	5.32	2.83	2.57
05/25/2013	6.46	4.10	9,069	24.10	2.27	3.65	7.40	6.88	5.37	3.17	2.55
05/26/2013	6.69	4.23	9,123	24.61	2.06	3.23	7.75	7.24	5.47	3.70	2.58
05/27/2013	6.52	4.13	8,997	24.24	1.75	2.82	7.48	6.97	5.57	3.35	2.60
05/28/2013	6.29	4.18	9,358	23.47	1.61	2.44	6.76	6.23	5.61	3.21	2.62
05/29/2013	6.04	4.17	9,502	23.58	1.59	2.15	6.82	6.29	5.65	3.23	2.66
05/30/2013	5.57	3.93	9,779	21.54	1.55	2.05	5.75	5.21	5.65	2.53	2.63
05/31/2013	5.38	3.71	10,488	19.57	1.48	1.99	4.64	4.11	5.60	1.95	2.63
06/01/2013	5.67	3.76	9,583	19.02	1.45	1.94	4.66	4.13	5.61	1.86	2.64
06/02/2013	6.13	4.02	9,053	20.43	1.52	1.91	5.41	4.87	5.70	2.22	2.69
06/03/2013	6.45	4.49	8,563	23.94	7.89	2.32	7.18	6.66	5.88	3.35	2.80
06/04/2013	6.55	4.57	7,386	25.19	16.19	3.31	8.01	7.52	5.97	3.96	2.89

Antioch Tides measured in feet above mean sea level.

Net Delta Outflow Index calculated from equation as specified in D-1641, revised June 1995.

Chippis Island EC calculated from measurements recorded at Mallard Slough.

Electrical Conductivity (EC) units: milliSiemens per Centimeter

md : mean daily

14dm : fourteen day running mean

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e - estimated value

Delta Water Quality Conditions

Date	Antioch		Jersey Point		Emmaton		Cache Slough	Good Year Slough	Sunrise Club	Volanti Slough	Beldon Landing	Collinsville
	mdEC	14mdEC	mdEC	14mdEC	mdEC	14mdEC	mdEC	mhtEC	mhtEC	mhtEC	mhtEC	mhtEC
05/06/2013	1.87	1.76	0.39	0.35	0.67	0.68	0.42	11.57	9.68	10.58	8.64	5.54
05/07/2013	1.71	1.80	0.37	0.36	0.62	0.71	0.43	11.61	9.25	9.83	7.57	5.72
05/08/2013	1.66	1.78	0.36	0.36	0.63	0.70	0.45	11.64	8.67	9.42	7.11	5.77
05/09/2013	1.63	1.73	0.36	0.36	0.61	0.65	0.48	11.79	8.13	9.21	6.63	5.27
05/10/2013	1.48	1.70	0.35	0.36	0.57	0.62	0.50	11.99	7.76	8.60	6.49	5.24
05/11/2013	1.32	1.66	0.34	0.36	0.46	0.58	0.48	12.11	7.49	8.22	6.05	4.24
05/12/2013	1.32	1.61	0.34	0.36	0.41	0.54	0.45	11.82	7.10	7.63	5.50	4.49
05/13/2013	1.18	1.55	0.34	0.36	0.37	0.52	0.45	11.36	6.59	7.07	4.94	3.93
05/14/2013	1.12	1.50	0.34	0.36	0.34	0.50	0.43	11.33	6.13	6.45	4.24	4.30
05/15/2013	1.11	1.48	0.33	0.35	0.37	0.50	0.42	11.16	5.72	5.97	3.88	3.56
05/16/2013	1.03	1.46	0.32	0.35	0.32	0.50	0.40	10.60	5.18	5.67	3.68	NR
05/17/2013	0.91	1.44	0.31	0.35	0.29	0.49	NR	10.25	5.10	5.62	3.53	3.14
05/18/2013	0.74	1.38	0.30	0.35	0.25	0.48	NR	10.12	5.04	5.56	3.31	2.43
05/19/2013	0.70	1.27	0.29	0.34	0.23	0.44	NR	9.95	4.98	5.51	2.97	2.33
05/20/2013	0.73	1.19	0.29	0.33	0.21	0.41	NR	9.41	5.03	5.33	2.87	2.79
05/21/2013	0.99	1.14	0.31	0.33	0.27	0.38	NR	8.64	4.43	4.88	2.50	4.05
05/22/2013	1.05	1.09	0.32	0.32	0.27	0.35	NR	8.81	4.36	4.77	2.25	3.64
05/23/2013	1.09	1.06	0.31	0.32	0.28	0.33	NR	9.16	4.31	4.59	2.60	3.57
05/24/2013	1.21	1.04	0.33	0.32	0.33	0.31	0.28	9.18	5.54	5.28	4.32	4.16
05/25/2013	1.43	1.04	0.34	0.32	0.43	0.31	0.26	9.15	6.83	6.34	5.06	3.98
05/26/2013	1.61	1.07	0.36	0.32	0.59	0.32	0.25	9.39	7.47	6.86	6.19	4.71
05/27/2013	1.53	1.09	0.34	0.32	0.54	0.34	0.26	10.04	7.64	7.48	6.47	4.41
05/28/2013	1.37	1.11	0.33	0.32	0.45	0.35	0.25	10.26	7.57	7.88	7.16	4.44
05/29/2013	1.40	1.13	0.34	0.32	0.47	0.35	0.26	10.43	7.18	7.32	7.19	4.02
05/30/2013	1.09	1.13	0.32	0.32	0.34	0.35	0.29	10.38	6.67	7.33	6.95	3.54
05/31/2013	0.90	1.13	0.30	0.32	0.26	0.35	0.39	10.26	6.56	7.79	6.68	2.87
06/01/2013	0.86	1.14	0.30	0.32	0.27	0.35	0.36	10.19	6.68	7.36	7.25	2.92
06/02/2013	0.98	1.16	0.31	0.32	0.28	0.36	0.37	10.03	6.83	7.29	7.20	3.58
06/03/2013	1.26	1.20	0.35	0.32	0.38	0.37	0.32	9.86	7.12	7.97	7.89	4.31
06/04/2013	1.61	1.24	0.40	0.33	0.57	0.39	0.30	10.18	7.10	8.90	7.64	5.07

Electrical Conductivity (EC) units: milliSiemens per Centimeter

Chloride (Cl) units: milligrams per liter

mht : mean high tides

md : mean daily

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e : estimated value

State of California - Department of Water Resources - Division of Operations & Maintenance - Operations Control Office

Delta Water Quality Conditions

Date	Bethel Island mdEC	Farrar Park mdEC	Holland Tract mdEC	Bacon Island mdEC	Contra Costa mdEC	Clifton Court mdEC	Tracy Pumping Plant mdEC	Antioch mdCl	Bacon Island mdCl	Contra Costa mdCl	Delta Status
05/06/2013	0.29	0.31	0.28	0.28	0.29	0.25	0.28	525	35	33	s
05/07/2013	0.29	0.32	0.28	0.29	0.29	0.24	NR	475	37	33	s
05/08/2013	0.30	0.33	0.29	0.29	0.28	0.24	NR	458	38	33	s
05/09/2013	0.30	0.33	0.29	0.30	0.30	0.25	NR	448	40	34	s
05/10/2013	0.31	0.34	0.30	0.30	0.30	0.26	NR	400	41	35	s
05/11/2013	0.31	0.33	0.30	0.31	0.29	0.28	NR	351	42	36	s
05/12/2013	0.31	0.34	0.30	0.31	0.31	0.29	NR	351	43	36	s
05/13/2013	0.31	0.33	0.31	0.32	0.32	0.31	NR	307	44	37	s
05/14/2013	0.31	0.33	0.31	0.32	0.32	0.30	NR	288	45	39	s
05/15/2013	0.31	0.34	0.31	0.32	0.32	0.32	NR	283	45	36	s
05/16/2013	0.31	0.34	0.31	0.32	NR	0.34	NR	257	45	40	s
05/17/2013	0.31	0.34	0.31	0.32	NR	0.35	NR	220	46	42	s
05/18/2013	0.31	0.34	0.31	0.33	NR	0.36	NR	166	47	38	s
05/19/2013	0.31	0.34	0.31	0.33	NR	0.39	NR	151	47	39	s
05/20/2013	0.31	0.34	0.30	0.33	NR	0.42	NR	164	47	40	s
05/21/2013	0.31	0.33	0.30	0.32	NR	0.44	NR	246	46	42	s
05/22/2013	0.31	0.33	0.30	0.32	NR	0.45	0.45	265	46	42	s
05/23/2013	0.30	0.33	0.30	0.32	NR	0.46	0.48	278	46	43	s
05/24/2013	0.30	0.33	0.30	0.32	NR	0.44	0.48	317	45	44	s
05/25/2013	0.30	0.33	0.30	0.31	NR	0.45	0.47	385	44	44 e	s
05/26/2013	0.30	0.32	0.30	0.31	NR	0.42	0.47	444	43	44 e	s
05/27/2013	0.30	0.32	0.30	0.31	NR	0.43	0.47	416	42	44 e	s
05/28/2013	0.30	0.32	0.30	0.31	NR	0.42	0.49	367	43	42	s
05/29/2013	0.30	0.32	0.29	0.31	NR	0.42	0.50	376	43	45	s
05/30/2013	0.30	0.32	0.29	0.31	0.38	0.43	0.50	277	43	45	s
05/31/2013	0.30	0.32	0.29	0.31	0.37	0.48	0.52	215	43	45 e	s
06/01/2013	0.30	0.33	0.29	0.31	0.36	0.46	0.52	204	42	45 e	s
06/02/2013	0.30	0.33	0.29	0.30	0.35	0.43	0.50	241	41	45 e	s
06/03/2013	0.30	0.33	0.28	0.30	0.34	0.41	0.48	330	39	44	s
06/04/2013	0.30	0.32	0.28	0.29	0.33	0.40	0.44	443	38	41	s

Electrical Conductivity (EC) units: milliSiemens per Centimeter

Chloride (Cl) units: milligrams per liter

md : mean daily

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e : estimated value

Antioch and Bacon Island mdCl are calculated from the respective mdEC values.

Coordinated Operation Agreement Delta Status:

c = excess Delta conditions

b = balanced Delta cond. w/ no storage withdrawal

s = balanced Delta cond. w/ storage withdrawal

Excess Delta conditions with restrictions:

f = fish concerns

r = E/I ratio concerns

Delta Water Quality Conditions

South Delta Stations

Date	Vernalis		Brandt Bridge		Old River Near Tracy		Old River Near Middle River	
	md EC	30 day avg	md EC	30 day avg	md EC	30 day avg	md EC	30 day avg
05/06/2013	0.19	0.43	0.17	0.52	0.25	0.72	0.17	0.50
05/07/2013	0.20	0.41	0.18	0.50	0.28	0.69	0.18	0.48
05/08/2013	0.20	0.39	0.20	0.48	0.31	0.67	0.20	0.45
05/09/2013	0.22	0.37	0.20	0.45	0.30	0.64	0.21	0.43
05/10/2013	0.22	0.35	0.22	0.43	0.29	0.62	NR	NC
05/11/2013	0.21	0.33	0.23	0.41	0.29	0.59	NR	NC
05/12/2013	0.21	0.31	0.22	0.38	0.29	0.56	NR	NC
05/13/2013	0.22	0.29	0.22	0.36	0.30	0.53	0.23	NC
05/14/2013	0.26	0.28	0.24	0.34	0.30	0.50	0.25	NC
05/15/2013	0.33	0.27	0.27	0.32	0.31	0.48	0.29	NC
05/16/2013	0.38	0.26	0.32	0.30	0.36	0.45	0.37	NC
05/17/2013	0.40	0.26	0.37	0.28	0.43	0.43	0.44	NC
05/18/2013	0.44	0.26	0.44	0.27	0.47	0.42	0.47	NC
05/19/2013	0.48	0.26	0.47	0.27	0.54	0.40	0.51	NC
05/20/2013	0.48	0.26	0.50	0.26	0.60	0.39	0.55	NC
05/21/2013	0.50	0.27	0.52	0.27	0.67	0.39	0.57	NC
05/22/2013	0.52	0.28	0.54	0.27	0.66	0.39	0.58	NC
05/23/2013	0.53	0.29	0.56	0.28	0.66	0.39	0.59	NC
05/24/2013	0.54	0.30	0.56	0.29	0.70	0.40	0.62	NC
05/25/2013	0.53	0.31	0.57	0.30	0.74	0.41	0.63	NC
05/26/2013	0.51	0.32	0.57	0.31	0.77	0.42	0.56	NC
05/27/2013	0.52	0.32	0.59	0.32	0.77	0.43	0.54	NC
05/28/2013	0.56	0.34	0.61	0.34	0.78	0.45	0.58	NC
05/29/2013	0.54	0.35	0.62	0.35	0.81	0.46	0.55	NC
05/30/2013	0.53	0.36	0.62	0.37	0.81	0.48	0.62	NC
05/31/2013	0.57	0.37	0.62	0.38	0.82	0.50	0.59	NC
06/01/2013	0.56	0.38	0.62	0.39	0.84	0.51	0.63	NC
06/02/2013	0.56	0.39	0.63	0.41	0.89	0.53	0.62	NC
06/03/2013	0.55	0.41	0.62	0.42	0.92	0.55	0.69	NC
06/04/2013	0.59	0.42	0.61	0.44	0.93	0.57	0.68	NC

Electrical Conductivity (EC) units: milliSiemens per Centimeter

md : mean daily

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e : estimated value

Compliance Standards

for the Sacramento - San Joaquin Delta and Suisun Marsh

Tuesday, June 11, 2013

Criteria	Standard	Status
Flow/Operational		
% of inflow diverted	35 %	16 %
Vernalis Base Flow : Monthly average *	>= 710 cfs	851 cfs
7 Day average *	>= 568 cfs	824 cfs
Habitat Protection, X2 / Flow		
	30 days at Collinsville	11 days
Water Quality		
Days @ CCWD PP#1 w/ chlorides <= 150 mg/l	165 days	162 days
Export Areas for SWP, CVP, CCWD, et al	<= 250 mg/l Cl	37 mg/l
14dm EC at Emmaton	<= 0.45 mS/cm	0.52 mS/cm
14dm EC at Jersey Point	<= 0.45 mS/cm	0.38 mS/cm
Maximum 30 day running average of mean daily EC at:		
Vernalis	<= 0.7 mS/cm	0.5 mS/cm
Brandt Bridge	<= 0.7 mS/cm	0.5 mS/cm
Old River Near Tracy	<= 0.7 mS/cm	0.7 mS/cm
Old River Near Middle River	<= 0.7 mS/cm	0.6 mS/cm
SUISUN MARSH:		
Suisun Marsh Salinity Control Gates :	3 Open / 0 Closed / 0 Full Tide Open	
Flashboard Status : Out		
Boat Lock Status : Closed		

California Hydrologic Conditions: (California Cooperative Snow Surveys Forecast, May 1, 2013)

Previous Month's Index (8RI for April.): 2.023 MAF

Water Year Type: Dry

Sacramento valley water year type index (40/30/30) @ 50%: 5.8 MAF (Dry)

San Joaquin valley water year type index (60/20/20) @ 75%: 1.6 MAF (Critical)

Electrical Conductivity (EC) in milliSiemens per Centimeter.	Montezuma Slough Gate Operation:	Coordinated Operation Agreement Delta Status:
Chlorides (Cl) in milligrams per liter	Number of gates operating at either	c = excess Delta conditions
mht - mean high tides	Open, Closed, or Full Tide Open	b = balanced Delta cond. w/ no storage withdrawal
md - mean daily	Flashboard Status : In, Out, or Modified In	s = balanced Delta cond. w/ storage withdrawal
14 dm - fourteen day running mean	Boat Lock Status : Open or Closed	Excess Delta conditions with restrictions:
28 dm - twenty-eight day running mean		f = fish concerns
NR - No Record		r = E/I ratio concerns
NC - Average not computed due to insufficient data.		
BR : Below Rating		* NDOI, Rio Vista & Vernalis Flows:
e - estimated value		- Monthly average is progressive daily mean.
		- 7 day average is progressive daily mean for the first six days of the month.

State of California - Department of Water Resources - Division of Operations & Maintenance - Operations Control Office

Delta Water Quality Conditions

Date	Antioch Tides		Net Delta Outflow Index cfs	Martinez mdEC	Port Chicago		Mallard mdEC	Chipps Island		Collinsville	
	High	Half			mdEC	14dm		mdEC	14dm	mdEC	14dm
05/13/2013	5.94	4.12	11,402	21.10	7.48	10.70	6.19	5.65	6.88	3.12	3.91
05/14/2013	5.80	4.16	11,153	21.37	6.97	10.23	6.22	5.68	6.76	2.89	3.80
05/15/2013	5.72	4.15	10,114	21.13	5.60	9.82	6.14	5.60	6.72	2.74	3.71
05/16/2013	5.26	4.02	9,550	21.54	2.97	9.16	5.75	5.21	6.69	2.87	3.70
05/17/2013	5.18	3.95	8,987	21.04	2.33	8.46	5.39	4.85	6.60	1.99	3.63
05/18/2013	5.07	3.63	9,399	18.61	2.09	7.69	4.55	4.02	6.38	1.69	3.47
05/19/2013	5.27	3.48	9,727	18.03	1.99	6.91	4.14	3.62	6.00	1.52	3.20
05/20/2013	5.64	3.65	9,987	19.36	2.12	6.24	4.63	4.10	5.74	1.81	3.01
05/21/2013	5.76	3.94	9,870	23.02	2.39	5.62	6.82	6.29	5.65	2.74	2.88
05/22/2013	5.98	3.76	9,066	22.35	2.32	5.00	6.13	5.59	5.50	2.58	2.76
05/23/2013	5.96	3.77	9,551	22.31	2.36	4.50	6.24	5.70	5.37	2.49	2.64
05/24/2013	6.16	3.92	9,224	23.18	2.30	4.04	6.72	6.19	5.32	2.83	2.57
05/25/2013	6.46	4.10	9,069	24.10	2.27	3.65	7.40	6.88	5.37	3.17	2.55
05/26/2013	6.59	4.23	9,123	24.61	2.06	3.23	7.75	7.24	5.47	3.70	2.58
05/27/2013	6.52	4.13	8,997	24.24	1.75	2.82	7.48	6.97	5.57	3.35	2.60
05/28/2013	6.29	4.18	9,358	23.47	1.61	2.44	6.76	6.23	5.61	3.21	2.62
05/29/2013	6.04	4.17	9,502	23.58	1.59	2.15	6.82	6.29	5.65	3.23	2.66
05/30/2013	5.57	3.93	9,779	21.54	1.55	2.05	5.75	5.21	5.65	2.53	2.63
05/31/2013	5.38	3.71	10,488	19.57	1.48	1.99	4.64	4.11	5.60	1.95	2.63
06/01/2013	5.67	3.76	9,583	19.02	1.45	1.94	4.66	4.13	5.61	1.86	2.64
06/02/2013	6.13	4.02	9,053	20.43	1.52	1.91	5.41	4.87	5.70	2.22	2.69
06/03/2013	6.45	4.49	8,563	23.94	7.89	2.32	7.18	6.66	5.88	3.35	2.80
06/04/2013	6.55	4.57	7,386	25.19	16.19	3.31	8.01	7.52	5.97	3.96	2.89
06/05/2013	6.55	4.52	7,243	25.18	15.54	4.25	7.66	7.15	6.08	4.01	2.99
06/06/2013	6.61	4.54	7,307	24.66	15.14	5.17	7.40	6.88	6.17	2.76	3.01
06/07/2013	6.62	4.52	7,507	24.01	14.92	6.07	7.23	6.71	6.20	3.69	3.07
06/08/2013	6.60	4.75	7,527	23.41	16.14	7.06	7.70	7.19	6.22	4.16	3.14
06/09/2013	7.09	5.07	6,899	26.86	17.96	8.19	10.24	9.85	6.41	5.78	3.29
06/10/2013	6.74	4.67	7,371	25.20	15.39	9.17	8.01	7.51	6.45	4.40	3.36
06/11/2013	6.26	4.39	7,262	23.15	14.10	10.06	6.65	6.12	6.44	3.22	3.37

Antioch Tides measured in feet above mean sea level.

Net Delta Outflow Index calculated from equation as specified in D-1641, revised June 1995.

Chipps Island EC calculated from measurements recorded at Mallard Slough.

Electrical Conductivity (EC) units: milliSiemens per Centimeter

md : mean daily

14dm : fourteen day running mean

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e - estimated value

Delta Water Quality Conditions

Date	Antioch		Jersey Point		Emmaton		Cache Slough	Good Year Slough	Sunrise Club	Volanti Slough	Beldon Landing	Collinsville
	mdEC	14mdEC	mdEC	14mdEC	mdEC	14mdEC	mdEC	mhtEC	mhtEC	mhtEC	mhtEC	mhtEC
05/13/2013	1.18	1.55	0.34	0.36	0.37	0.52	0.45	11.36	6.59	7.07	4.94	3.93
05/14/2013	1.12	1.50	0.34	0.36	0.34	0.50	0.43	11.33	6.13	6.45	4.24	4.30
05/15/2013	1.11	1.48	0.33	0.35	0.37	0.50	0.42	11.16	5.72	5.97	3.88	3.56
05/16/2013	1.03	1.46	0.32	0.35	0.32	0.50	0.40	10.60	5.18	5.67	3.68	NR
05/17/2013	0.91	1.44	0.31	0.35	0.29	0.49	NR	10.25	5.10	5.62	3.53	3.14
05/18/2013	0.74	1.38	0.30	0.35	0.25	0.48	NR	10.12	5.04	5.56	3.31	2.43
05/19/2013	0.70	1.27	0.29	0.34	0.23	0.44	NR	9.95	4.98	5.51	2.97	2.33
05/20/2013	0.73	1.19	0.29	0.33	0.21	0.41	NR	9.41	5.03	5.33	2.87	2.79
05/21/2013	0.99	1.14	0.31	0.33	0.27	0.38	NR	8.64	4.43	4.88	2.50	4.05
05/22/2013	1.05	1.09	0.32	0.32	0.27	0.35	NR	8.81	4.36	4.77	2.25	3.64
05/23/2013	1.09	1.06	0.31	0.32	0.28	0.33	NR	9.16	4.31	4.59	2.60	3.57
05/24/2013	1.21	1.04	0.33	0.32	0.33	0.31	0.28	9.18	5.54	5.28	4.32	4.16
05/25/2013	1.43	1.04	0.34	0.32	0.43	0.31	0.26	9.15	6.83	6.34	5.06	3.98
05/26/2013	1.61	1.07	0.36	0.32	0.59	0.32	0.25	9.39	7.47	6.86	6.19	4.71
05/27/2013	1.53	1.09	0.34	0.32	0.54	0.34	0.26	10.04	7.64	7.48	6.47	4.41
05/28/2013	1.37	1.11	0.33	0.32	0.45	0.35	0.25	10.26	7.57	7.88	7.16	4.44
05/29/2013	1.40	1.13	0.34	0.32	0.47	0.35	0.26	10.43	7.18	7.32	7.19	4.02
05/30/2013	1.09	1.13	0.32	0.32	0.34	0.35	0.29	10.38	6.67	7.33	6.95	3.54
05/31/2013	0.90	1.13	0.30	0.32	0.26	0.35	0.39	10.26	6.56	7.79	6.68	2.87
06/01/2013	0.86	1.14	0.30	0.32	0.27	0.35	0.36	10.19	6.68	7.36	7.25	2.92
06/02/2013	0.98	1.16	0.31	0.32	0.28	0.36	0.37	10.03	6.83	7.29	7.20	3.58
06/03/2013	1.26	1.20	0.35	0.32	0.38	0.37	0.32	9.86	7.12	7.97	7.89	4.31
06/04/2013	1.61	1.24	0.40	0.33	0.57	0.39	0.30	10.18	7.10	8.90	7.64	5.07
06/05/2013	1.52	1.28	0.40	0.34	0.57	0.41	0.31	10.55	7.51	8.69	7.64	4.73
06/06/2013	1.53	1.31	0.40	0.34	0.48	0.43	0.31	11.79	7.81	8.97	7.64	
06/07/2013	1.58	1.33	0.42	0.35	0.52	0.44	0.34	12.76	7.99	9.95	8.09	4.84
06/08/2013	1.77	1.36	0.43	0.36	0.63	0.45	0.33	11.95	8.33	10.00	8.55	4.91
06/09/2013	2.43	1.42	0.60	0.37	1.25	0.50	0.29	11.59	8.76	9.99	9.63	7.18
06/10/2013	1.80	1.43	0.43	0.38	0.78	0.52	0.33	12.07	8.73	10.69	8.74	5.40
06/11/2013	1.50	1.44	0.38	0.38	0.47	0.52	0.39	12.42	8.73	9.91	8.63	4.17

Electrical Conductivity (EC) units: milliSiemens per Centimeter

Chloride (Cl) units: milligrams per liter

mht : mean high tides

md : mean daily

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e : estimated value

Delta Water Quality Conditions

Date	Bethel Island mdEC	Farrar Park mdEC	Holland Tract mdEC	Bacon Island mdEC	Contra Costa mdEC	Clifton Court mdEC	Tracy Pumping Plant mdEC	Antioch mdCl	Bacon Island mdCl	Contra Costa mdCl	Delta Status
05/13/2013	0.31	0.33	0.31	0.32	0.32	0.31	NR	307	44	37	s
05/14/2013	0.31	0.33	0.31	0.32	0.32	0.30	NR	288	45	39	s
05/15/2013	0.31	0.34	0.31	0.32	0.32	0.32	NR	283	45	36	s
05/16/2013	0.31	0.34	0.31	0.32	NR	0.34	NR	257	45	40	s
05/17/2013	0.31	0.34	0.31	0.32	NR	0.35	NR	220	46	42	s
05/18/2013	0.31	0.34	0.31	0.33	NR	0.36	NR	166	47	38	s
05/19/2013	0.31	0.34	0.31	0.33	NR	0.39	NR	151	47	39	s
05/20/2013	0.31	0.34	0.30	0.33	NR	0.42	NR	164	47	40	s
05/21/2013	0.31	0.33	0.30	0.32	NR	0.44	NR	246	46	42	s
05/22/2013	0.31	0.33	0.30	0.32	NR	0.45	0.45	265	46	42	s
05/23/2013	0.30	0.33	0.30	0.32	NR	0.46	0.48	278	46	43	s
05/24/2013	0.30	0.33	0.30	0.32	NR	0.44	0.48	317	45	44	s
05/25/2013	0.30	0.33	0.30	0.31	NR	0.45	0.47	385	44	44 e	s
05/26/2013	0.30	0.32	0.30	0.31	NR	0.42	0.47	444	43	44 e	s
05/27/2013	0.30	0.32	0.30	0.31	NR	0.43	0.47	416	42	44 e	s
05/28/2013	0.30	0.32	0.30	0.31	NR	0.42	0.49	367	43	42	s
05/29/2013	0.30	0.32	0.29	0.31	NR	0.42	0.50	376	43	45	s
05/30/2013	0.30	0.32	0.29	0.31	0.38	0.43	0.50	277	43	45	s
05/31/2013	0.30	0.32	0.29	0.31	0.37	0.48	0.52	215	43	45 e	s
06/01/2013	0.30	0.33	0.29	0.31	0.36	0.46	0.52	204	42	45 e	s
06/02/2013	0.30	0.33	0.29	0.30	0.35	0.43	0.50	241	41	45 e	s
06/03/2013	0.30	0.33	0.28	0.30	0.34	0.41	0.48	330	39	44	s
06/04/2013	0.30	0.32	0.28	0.29	0.33	0.40	0.44	443	38	41	s
06/05/2013	0.29	0.35	0.28	0.29	0.32	0.44	0.48	415	38	40	s
06/06/2013	0.29	0.35	0.28	0.29	0.31	0.43	0.46	417	38	43	s
06/07/2013	0.30	0.37	0.29	0.29	0.31	0.43	0.48	434	37	39	s
06/08/2013	0.30	0.37	0.29	0.29	0.31	0.43	0.49	492	37	39 e	s
06/09/2013	0.32	0.37	0.29	0.29	0.30	0.40	0.46	703	37	39 e	s
06/10/2013	0.32	0.39	0.29	0.29	0.30	0.46	0.44	503	38	39 e	s
06/11/2013	0.32	0.39	0.30	0.29	0.30	0.42	0.53	409	38	37	s

Electrical Conductivity (EC) units: milliSiemens per Centimeter

Chloride (Cl) units: milligrams per liter

md : mean daily

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e : estimated value

Antioch and Bacon Island mdCl are calculated from the respective mdEC values.

Coordinated Operation Agreement Delta Status:

c = excess Delta conditions

b = balanced Delta cond. w/ no storage withdrawal

s = balanced Delta cond. w/ storage withdrawal

Excess Delta conditions with restrictions:

f = fish concerns

r = E/I ratio concerns

Delta Water Quality Conditions

South Delta Stations

Date	Vernalis		Brandt Bridge		Old River Near Tracy		Old River Near Middle River	
	md EC	30 day avg	md EC	30 day avg	md EC	30 day avg	md EC	30 day avg
05/13/2013	0.22	0.29	0.22	0.36	0.30	0.53	0.23	NC
05/14/2013	0.26	0.28	0.24	0.34	0.30	0.50	0.25	NC
05/15/2013	0.33	0.27	0.27	0.32	0.31	0.48	0.29	NC
05/16/2013	0.38	0.26	0.32	0.30	0.36	0.45	0.37	NC
05/17/2013	0.40	0.26	0.37	0.28	0.43	0.43	0.44	NC
05/18/2013	0.44	0.26	0.44	0.27	0.47	0.42	0.47	NC
05/19/2013	0.48	0.26	0.47	0.27	0.54	0.40	0.51	NC
05/20/2013	0.48	0.26	0.50	0.26	0.60	0.39	0.55	NC
05/21/2013	0.50	0.27	0.52	0.27	0.67	0.39	0.57	NC
05/22/2013	0.52	0.28	0.54	0.27	0.68	0.39	0.58	NC
05/23/2013	0.53	0.29	0.56	0.28	0.66	0.39	0.59	NC
05/24/2013	0.54	0.30	0.56	0.29	0.70	0.40	0.62	NC
05/25/2013	0.53	0.31	0.57	0.30	0.74	0.41	0.63	NC
05/26/2013	0.51	0.32	0.57	0.31	0.77	0.42	0.56	NC
05/27/2013	0.52	0.32	0.59	0.32	0.77	0.43	0.54	NC
05/28/2013	0.56	0.34	0.61	0.34	0.78	0.45	0.58	NC
05/29/2013	0.54	0.35	0.62	0.35	0.81	0.46	0.55	NC
05/30/2013	0.53	0.36	0.62	0.37	0.81	0.48	0.62	NC
05/31/2013	0.57	0.37	0.62	0.38	0.82	0.50	0.59	NC
06/01/2013	0.56	0.38	0.62	0.39	0.84	0.51	0.63	NC
06/02/2013	0.56	0.39	0.63	0.41	0.89	0.53	0.62	NC
06/03/2013	0.55	0.41	0.62	0.42	0.92	0.55	0.69	NC
06/04/2013	0.59	0.42	0.61	0.44	0.93	0.57	0.68	NC
06/05/2013	0.55	0.43	0.62	0.45	0.95	0.59	0.66	NC
06/06/2013	0.56	0.44	0.62	0.47	0.95	0.62	0.66	NC
06/07/2013	0.52	0.45	0.62	0.48	0.94	0.64	0.66	NC
06/08/2013	0.52	0.46	0.63	0.49	0.91	0.66	0.67	NC
06/09/2013	0.52	0.47	0.59	0.51	0.90	0.68	0.67	NC
06/10/2013	0.52	0.48	0.59	0.52	0.81	0.70	0.65	NC
06/11/2013	0.54	0.50	0.63	0.53	0.78	0.71	0.63	0.56

Electrical Conductivity (EC) units: millisiemens per Centimeter

md : mean daily

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e : estimated value

Compliance Standards

for the Sacramento - San Joaquin Delta and Suisun Marsh

Tuesday, June 18, 2013

Criteria	Standard	Status
Flow/Operational		
% of inflow diverted	35 %	16 %
Vernalis Base Flow : Monthly average *	>= 710 cfs	814 cfs
7 Day average *	>= 568 cfs	755 cfs
Habitat Protection, X2 / Flow		
	30 days at Collinsville	18 days
Water Quality		
Days @ CCWD PP#1 w/ chlorides <= 150 mg/l	165 days	169 days
Export Areas for SWP, CVP, CCWD, et al	<= 250 mg/l Cl	42 mg/l
14dm EC at Emmaton	<= 0.45 mS/cm	0.50 mS/cm
14dm EC at Jersey Point	<= 0.45 mS/cm	0.40 mS/cm
Maximum 30 day running average of mean daily EC at:		
Vernalis	<=0.7 mS/cm	0.5 mS/cm
Brandt Bridge	<= 0.7 mS/cm	0.6 mS/cm
Old River Near Tracy	<=0.7 mS/cm	0.8 mS/cm
Old River Near Middle River	<=0.7 mS/cm	0.6 mS/cm
SUISUN MARSH:		
Suisun Marsh Salinity Control Gates :	3 Open / 0 Closed / 0 Full Tide Open	
Flashboard Status : Out		
Boat Lock Status : Closed		

California Hydrologic Conditions: (California Cooperative Snow Surveys Forecast, May 1, 2013)

Previous Month's Index (8RI for April.): 2.023 MAF

Water Year Type: Dry

Sacramento valley water year type index (40/30/30) @ 50%: 5.8 MAF (Dry)

San Joaquin valley water year type index (60/20/20) @ 75%: 1.6 MAF (Critical)

Electrical Conductivity (EC) in milliSiemens per Centimeter.
 Chlorides (Cl) in milligrams per liter
 mht - mean high tides
 md - mean daily
 14 dm - fourteen day running mean
 28 dm - twenty-eight day running mean
 NR - No Record
 NC - Average not computed due to insufficient data.
 BR - Below Rating
 e - estimated value

Montezuma Slough Gate Operation:
 Number of gates operating at either
 Open, Closed, or Full Tide Open
 Flashboard Status: In, Out, or Modified In
 Boat Lock Status: Open or Closed

Coordinated Operation Agreement Delta Status:
 c = excess Delta conditions
 b = balanced Delta cond. w/ no storage withdrawal
 s = balanced Delta cond. w/ storage withdrawal
 Excess Delta conditions with restrictions:
 f = fish concerns
 r = E/I ratio concerns

* NDOI, Rio Vista & Vernalis Flows:
 - Monthly average is progressive daily mean.
 - 7 day average is progressive daily mean for the first six days of the month.

State of California - Department of Water Resources - Division of Operations & Maintenance - Operations Control Office

Delta Water Quality Conditions

Date	Antioch Tides		Net Delta Outflow Index cfs	Martinez mdEC	Port Chicago		Mallard mdEC	Chipps Island		Collinsville	
	High	Half			mdEC	14dm		mdEC	14dm	mdEC	14dm
05/20/2013	5.64	3.65	9,987	19.36	2.12	6.24	4.63	4.10	5.74	1.81	3.01
05/21/2013	5.76	3.94	9,870	23.02	2.39	5.62	6.82	6.29	5.65	2.74	2.88
05/22/2013	5.98	3.76	9,066	22.35	2.32	5.00	6.13	5.59	5.50	2.58	2.76
05/23/2013	5.96	3.77	9,551	22.31	2.36	4.50	6.24	5.70	5.37	2.49	2.64
05/24/2013	6.16	3.92	9,224	23.18	2.30	4.04	6.72	6.19	5.32	2.83	2.57
05/25/2013	6.46	4.10	9,069	24.10	2.27	3.65	7.40	6.88	5.37	3.17	2.55
05/26/2013	6.59	4.23	9,123	24.61	2.06	3.23	7.75	7.24	5.47	3.70	2.58
05/27/2013	6.52	4.13	8,997	24.24	1.75	2.82	7.48	6.97	5.57	3.35	2.60
05/28/2013	6.29	4.18	9,358	23.47	1.61	2.44	6.76	6.23	5.61	3.21	2.62
05/29/2013	6.04	4.17	9,502	23.58	1.59	2.15	6.82	6.29	5.65	3.23	2.66
05/30/2013	5.57	3.93	9,779	21.54	1.55	2.05	5.75	5.21	5.65	2.53	2.63
05/31/2013	5.38	3.71	10,488	19.57	1.48	1.99	4.64	4.11	5.60	1.95	2.63
06/01/2013	5.67	3.76	9,583	19.02	1.45	1.94	4.66	4.13	5.61	1.86	2.64
06/02/2013	6.13	4.02	9,053	20.43	1.52	1.91	5.41	4.87	5.70	2.22	2.69
06/03/2013	6.45	4.49	8,563	23.94	7.89	2.32	7.18	6.66	5.88	3.35	2.80
06/04/2013	6.55	4.57	7,386	25.19	16.19	3.31	8.01	7.52	5.97	3.96	2.89
06/05/2013	6.55	4.52	7,243	25.18	15.54	4.25	7.66	7.15	6.08	4.01	2.99
06/06/2013	6.61	4.54	7,307	24.66	15.14	5.17	7.40	6.88	6.17	2.76	3.01
06/07/2013	6.62	4.52	7,507	24.01	14.92	6.07	7.23	6.71	6.20	3.69	3.07
06/08/2013	6.60	4.75	7,527	23.41	16.14	7.06	7.70	7.19	6.22	4.16	3.14
06/09/2013	7.09	5.07	6,899	26.86	17.96	8.19	10.24	9.85	6.41	5.78	3.29
06/10/2013	6.74	4.67	7,371	25.20	15.39	9.17	8.01	7.51	6.45	4.40	3.36
06/11/2013	6.26	4.39	7,262	23.15	14.10	10.06	6.65	6.12	6.44	3.22	3.37
06/12/2013	6.11	4.28	7,472	22.24	14.23	10.96	6.60	6.07	6.43	3.16	3.36
06/13/2013	5.62	3.99	7,196	21.30	13.17	11.79	5.74	5.19	6.42	2.58	3.36
06/14/2013	5.16	3.80	7,413	19.46	11.64	12.52	4.71	4.18	6.43	2.21	3.38
06/15/2013	5.49	4.07	7,374	21.18	13.41	13.38	5.95	5.41	6.52	2.78	3.45
06/16/2013	5.52	3.90	6,959	20.98	13.47	14.23	6.12	5.58	6.57	2.64	3.48
06/17/2013	5.73	3.79	7,541	22.59	12.82	14.58	6.07	5.53	6.49	2.53	3.42
06/18/2013	6.15	3.99	7,458	23.41	13.86	14.42	6.49	5.95	6.38	2.78	3.33

Antioch Tides measured in feet above mean sea level.

Net Delta Outflow Index calculated from equation as specified in D-1641, revised June 1995.

Chipps Island EC calculated from measurements recorded at Mallard Slough.

Electrical Conductivity (EC) units: milliSiemens per Centimeter

md: mean daily

14dm: fourteen day running mean

NR: No Record

NC: Average not computed due to insufficient data

BR: Below Rating

a - estimated value

Delta Water Quality Conditions

Date	Antioch		Jersey Point		Emmaton		Cache Slough	Good Year Slough	Sunrise Club	Volanti Slough	Beldon Landing	Collinsville
	mdEC	14mdEC	mdEC	14mdEC	mdEC	14mdEC	mdEC	mhtEC	mhtEC	mhtEC	mhtEC	mhtEC
05/20/2013	0.73	1.19	0.29	0.33	0.21	0.41	NR	9.41	5.03	5.33	2.87	2.79
05/21/2013	0.99	1.14	0.31	0.33	0.27	0.38	NR	8.64	4.43	4.88	2.50	4.05
05/22/2013	1.05	1.09	0.32	0.32	0.27	0.35	NR	8.81	4.36	4.77	2.25	3.64
05/23/2013	1.09	1.06	0.31	0.32	0.28	0.33	NR	9.16	4.31	4.59	2.60	3.57
05/24/2013	1.21	1.04	0.33	0.32	0.33	0.31	0.28	9.18	5.54	5.28	4.32	4.16
05/25/2013	1.43	1.04	0.34	0.32	0.43	0.31	0.26	9.15	6.83	6.34	5.06	3.98
05/26/2013	1.61	1.07	0.36	0.32	0.59	0.32	0.25	9.39	7.47	6.86	6.19	4.71
05/27/2013	1.53	1.09	0.34	0.32	0.54	0.34	0.26	10.04	7.64	7.48	6.47	4.41
05/28/2013	1.37	1.11	0.33	0.32	0.45	0.35	0.25	10.26	7.57	7.88	7.16	4.44
05/29/2013	1.40	1.13	0.34	0.32	0.47	0.35	0.26	10.43	7.18	7.32	7.19	4.02
05/30/2013	1.09	1.13	0.32	0.32	0.34	0.35	0.29	10.38	6.67	7.33	6.95	3.54
05/31/2013	0.90	1.13	0.30	0.32	0.26	0.35	0.39	10.26	6.56	7.79	6.68	2.87
06/01/2013	0.86	1.14	0.30	0.32	0.27	0.35	0.36	10.19	6.66	7.36	7.25	2.92
06/02/2013	0.98	1.16	0.31	0.32	0.28	0.36	0.37	10.03	6.83	7.29	7.20	3.58
06/03/2013	1.26	1.20	0.35	0.32	0.38	0.37	0.32	9.86	7.12	7.97	7.89	4.31
06/04/2013	1.61	1.24	0.40	0.33	0.57	0.39	0.30	10.18	7.10	8.90	7.64	5.07
06/05/2013	1.52	1.28	0.40	0.34	0.57	0.41	0.31	10.55	7.51	8.69	7.64	4.73
06/06/2013	1.53	1.31	0.40	0.34	0.48	0.43	0.31	11.79	7.81	8.97	7.64	
06/07/2013	1.58	1.33	0.42	0.35	0.52	0.44	0.34	12.76	7.99	9.95	8.09	4.84
06/08/2013	1.77	1.36	0.43	0.36	0.63	0.45	0.33	11.95	8.33	10.00	8.55	4.91
06/09/2013	2.43	1.42	0.60	0.37	1.25	0.50	0.29	11.59	8.76	9.99	9.63	7.18
06/10/2013	1.80	1.43	0.43	0.38	0.78	0.52	0.33	12.07	8.73	10.69	8.74	5.40
06/11/2013	1.50	1.44	0.38	0.38	0.47	0.52	0.39	12.42	8.73	9.91	8.63	4.17
06/12/2013	1.50	1.45	0.40	0.39	0.42	0.52	0.40	12.49	8.52	9.85	8.76	3.99
06/13/2013	1.27	1.46	0.38	0.39	0.33	0.51	0.37	12.53	8.15	9.37	8.29	3.61
06/14/2013	1.18	1.48	0.35	0.40	0.27	0.52	0.37	12.59	8.05	9.06	8.27	3.03
06/15/2013	1.21	1.51	0.36	0.40	0.33	0.52	0.36	12.58	8.20	8.95	8.74	4.09
06/16/2013	1.13	1.52	0.36	0.40	0.28	0.52	0.36	12.24	8.51	8.99	8.52	3.97
06/17/2013	1.08	1.51	0.34	0.40	0.29	0.51	0.38	12.82	8.43	9.73	8.20	3.55
06/18/2013	1.19	1.48	0.35	0.40	0.33	0.50	0.36	12.56	9.86	9.86	8.46	4.18

Electrical Conductivity (EC) units: milliSiemens per Centimeter

Chloride (Cl) units: milligrams per liter

mht : mean high tides

md : mean daily

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e : estimated value

State of California - Department of Water Resources - Division of Operations & Maintenance - Operations Control Office

Delta Water Quality Conditions

Date	Bethel Island mdEC	Farrar Park mdEC	Holland Tract mdEC	Bacon Island mdEC	Contra Costa mdEC	Clifton Court mdEC	Tracy Pumping Plant mdEC	Antioch mdCl	Bacon Island mdCl	Contra Costa mdCl	Delta Status
05/20/2013	0.31	0.34	0.30	0.33	NR	0.42	NR	164	47	40	s
05/21/2013	0.31	0.33	0.30	0.32	NR	0.44	NR	246	46	42	s
05/22/2013	0.31	0.33	0.30	0.32	NR	0.45	0.45	265	46	42	s
05/23/2013	0.30	0.33	0.30	0.32	NR	0.46	0.48	278	46	43	s
05/24/2013	0.30	0.33	0.30	0.32	NR	0.44	0.48	317	45	44	s
05/25/2013	0.30	0.33	0.30	0.31	NR	0.45	0.47	385	44	44 e	s
05/26/2013	0.30	0.32	0.30	0.31	NR	0.42	0.47	444	43	44 e	s
05/27/2013	0.30	0.32	0.30	0.31	NR	0.43	0.47	416	42	44 e	s
05/28/2013	0.30	0.32	0.30	0.31	NR	0.42	0.49	367	43	42	s
05/29/2013	0.30	0.32	0.29	0.31	NR	0.42	0.50	376	43	45	s
05/30/2013	0.30	0.32	0.29	0.31	0.38	0.43	0.50	277	43	45	s
05/31/2013	0.30	0.32	0.29	0.31	0.37	0.48	0.52	215	43	45 e	s
06/01/2013	0.30	0.33	0.29	0.31	0.36	0.46	0.52	204	42	45 e	s
06/02/2013	0.30	0.33	0.29	0.30	0.35	0.43	0.50	241	41	45 e	s
06/03/2013	0.30	0.33	0.28	0.30	0.34	0.41	0.48	330	39	44	s
06/04/2013	0.30	0.32	0.28	0.29	0.33	0.40	0.44	443	38	41	s
06/05/2013	0.29	0.35	0.28	0.29	0.32	0.44	0.48	415	38	40	s
06/06/2013	0.29	0.35	0.28	0.29	0.31	0.43	0.46	417	38	43	s
06/07/2013	0.30	0.37	0.29	0.29	0.31	0.43	0.48	434	37	39	s
06/08/2013	0.30	0.37	0.29	0.29	0.31	0.43	0.49	492	37	39 e	s
06/09/2013	0.32	0.37	0.29	0.29	0.30	0.40	0.46	703	37	39 e	s
06/10/2013	0.32	0.39	0.29	0.29	0.30	0.46	0.44	503	38	39 e	s
06/11/2013	0.32	0.39	0.30	0.29	0.30	0.42	0.53	409	38	37	s
06/12/2013	0.31	0.40	0.31	0.30	0.30	0.46	0.49	409	39	37	s
06/13/2013	0.32	0.39	0.31	0.30	0.31	0.48	0.49	334	39	38	s
06/14/2013	0.32	0.38	0.30	0.30	0.31	0.42	0.50	305	40	39	s
06/15/2013	0.32	0.38	0.30	0.30	0.31	0.38	0.45	314	40	40	s
06/16/2013	0.32	0.37	0.30	0.30	0.32	0.38	0.45	291	40	41	s
06/17/2013	0.32	0.36	0.29	0.30	0.32	0.40	0.48	273	40	42	s
06/18/2013	0.32	0.35	0.29	0.30	0.31	0.39	0.47	308	39	42	s

Electrical Conductivity (EC) units: millisiemens per Centimeter

Chloride (Cl) units: milligrams per liter

md : mean daily

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e : estimated value

Antioch and Bacon Island mdCl are calculated from the respective mdEC values.

Coordinated Operation Agreement Delta Status:

c = excess Delta conditions

b = balanced Delta cond. w/ no storage withdrawal

s = balanced Delta cond. w/ storage withdrawal

Excess Delta conditions with restrictions:

f = fish concerns

r = E/I ratio concerns

State of California - Department of Water Resources - Division of Operations & Maintenance - Operations Control Office

Delta Water Quality Conditions

South Delta Stations

Date	Vernalis		Brandt Bridge		Old River Near Tracy		Old River Near Middle River	
	md EC	30 day avg	md EC	30 day avg	md EC	30 day avg	md EC	30 day avg
05/20/2013	0.48	0.26	0.50	0.26	0.60	0.39	0.55	NC
05/21/2013	0.50	0.27	0.52	0.27	0.67	0.39	0.57	NC
05/22/2013	0.52	0.28	0.54	0.27	0.68	0.39	0.58	NC
05/23/2013	0.53	0.29	0.56	0.28	0.66	0.39	0.59	NC
05/24/2013	0.54	0.30	0.56	0.29	0.70	0.40	0.62	NC
05/25/2013	0.53	0.31	0.57	0.30	0.74	0.41	0.63	NC
05/26/2013	0.51	0.32	0.57	0.31	0.77	0.42	0.56	NC
05/27/2013	0.52	0.32	0.59	0.32	0.77	0.43	0.54	NC
05/28/2013	0.56	0.34	0.61	0.34	0.78	0.45	0.58	NC
05/29/2013	0.54	0.35	0.62	0.35	0.81	0.46	0.55	NC
05/30/2013	0.53	0.36	0.62	0.37	0.81	0.48	0.62	NC
05/31/2013	0.57	0.37	0.62	0.38	0.82	0.50	0.59	NC
06/01/2013	0.56	0.38	0.62	0.39	0.84	0.51	0.63	NC
06/02/2013	0.56	0.39	0.63	0.41	0.89	0.53	0.62	NC
06/03/2013	0.55	0.41	0.62	0.42	0.92	0.55	0.69	NC
06/04/2013	0.59	0.42	0.61	0.44	0.93	0.57	0.68	NC
06/05/2013	0.55	0.43	0.62	0.45	0.95	0.59	0.66	NC
06/06/2013	0.56	0.44	0.62	0.47	0.95	0.62	0.66	NC
06/07/2013	0.52	0.45	0.62	0.48	0.94	0.64	0.66	NC
06/08/2013	0.52	0.46	0.63	0.49	0.91	0.66	0.67	NC
06/09/2013	0.52	0.47	0.59	0.51	0.90	0.68	0.67	NC
06/10/2013	0.52	0.48	0.59	0.52	0.81	0.70	0.65	NC
06/11/2013	0.54	0.50	0.63	0.53	0.78	0.71	0.63	0.56
06/12/2013	0.53	0.51	0.63	0.55	0.78	0.73	0.63	0.57
06/13/2013	0.54	0.52	0.63	0.56	0.80	0.74	0.63	0.58
06/14/2013	0.55	0.52	0.64	0.57	0.81	0.76	0.69	0.60
06/15/2013	0.53	0.53	0.63	0.58	0.87	0.78	0.69	0.61
06/16/2013	0.56	0.53	0.62	0.59	0.90	0.79	0.70	0.62
06/17/2013	0.56	0.54	0.62	0.60	0.89	0.81	0.69	0.62
06/18/2013	0.58	0.54	0.63	0.60	0.88	0.82	0.67	0.63

Electrical Conductivity (EC) units: milliSiemens per Centimeter

md : mean daily

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e : estimated value

Compliance Standards

for the Sacramento - San Joaquin Delta and Suisun Marsh

Thursday, June 27, 2013

Criteria	Standard	Status
Flow/Operational		
% of inflow diverted	35 %	25 %
Vernalis Base Flow : Monthly average *	>= 710 cfs	763 cfs
7 Day average *	>= 568 cfs	672 cfs
Habitat Protection, X2 / Flow		
	30 days at Collinsville	27 days

Water Quality

Days @ CCWD PP#1 w/ chlorides <= 150 mg/l	165 days	178 days
Export Areas for SWP, CVP, CCWD, et al	<= 250 mg/l Cl	40 mg/l
14dm EC at Emmaton	<= 0.45 mS/cm	0.44 mS/cm
14dm EC at Jersey Point	<= 0.45 mS/cm	0.37 mS/cm
Maximum 30 day running average of mean daily EC at:		
Vernalis	<= 0.7 mS/cm	0.6 mS/cm
Brandt Bridge	<= 0.7 mS/cm	0.6 mS/cm
Old River Near Tracy	<= 0.7 mS/cm	0.9 mS/cm
Old River Near Middle River	<= 0.7 mS/cm	0.6 mS/cm

SUISUN MARSH:

Suisun Marsh Salinity Control Gates :	3 Open / 0 Closed / 0 Full Tide Open
Flashboard Status :	Out
Boat Lock Status :	Closed

California Hydrologic Conditions: (California Cooperative Snow Surveys Forecast, May 1, 2013)

Previous Month's Index (8RI for April.): 2.023 MAF

Water Year Type: Dry

Sacramento valley water year type index (40/30/30) @ 50%: 5.8 MAF (Dry)

San Joaquin valley water year type index (60/20/20) @ 75%: 1.6 MAF (Critical)

Electrical Conductivity (EC) in milliSiemens per Centimeter.
 Chlorides (Cl) in milligrams per liter
 mhl - mean high tides
 md - mean daily
 14 dm - fourteen day running mean
 28 dm - twenty-eight day running mean
 NR - No Record
 NC - Average not computed due to insufficient data.
 BR : Below Rating
 e - estimated value

Montezuma Slough Gate Operation:
 Number of gates operating at either
 Open, Closed, or Full Tide Open
 Flashboard Status : In, Out, or Modified In
 Boat Lock Status : Open or Closed

Coordinated Operation Agreement Delta Status:
 c = excess Delta conditions
 b = balanced Delta cond. w/ no storage withdrawal
 s = balanced Delta cond. w/ storage withdrawal
 Excess Delta conditions with restrictions:
 f = fish concerns
 r = E/I ratio concerns

* NDOI, Rio Vista & Vernalis Flows:
 - Monthly average is progressive daily mean.
 - 7 day average is progressive daily mean for the first six days of the month.

Delta Water Quality Conditions

Date	Antioch Tides		Net Delta Outflow Index cfs	Martinez mdEC	Port Chicago		Mallard mdEC	Chippis Island		Collinsville	
	High	Half			mdEC	14dm		mdEC	14dm	mdEC	14dm
05/29/2013	6.04	4.17	9,502	23.58	1.59	2.15	6.82	6.29	5.65	3.23	2.66
05/30/2013	5.57	3.93	9,779	21.54	1.55	2.05	5.75	5.21	5.65	2.53	2.63
05/31/2013	5.38	3.71	10,488	19.57	1.48	1.99	4.64	4.11	5.60	1.95	2.63
06/01/2013	5.67	3.76	9,583	19.02	1.45	1.94	4.66	4.13	5.61	1.86	2.64
06/02/2013	6.13	4.02	9,053	20.43	1.52	1.91	5.41	4.87	5.70	2.22	2.69
06/03/2013	6.45	4.49	8,563	23.94	7.89	2.32	7.18	6.66	5.88	3.35	2.80
06/04/2013	6.55	4.57	7,386	25.19	16.19	3.31	8.01	7.52	5.97	3.96	2.89
06/05/2013	6.55	4.52	7,243	25.18	15.54	4.25	7.66	7.15	6.08	4.01	2.99
06/06/2013	6.61	4.54	7,307	24.66	15.14	5.17	7.40	6.88	6.17	2.76	3.01
06/07/2013	6.62	4.52	7,507	24.01	14.92	6.07	7.23	6.71	6.20	3.69	3.07
06/08/2013	6.60	4.75	7,527	23.41	16.14	7.06	7.70	7.19	6.22	4.16	3.14
06/09/2013	7.09	5.07	6,899	26.86	17.96	8.19	10.24	9.85	6.41	5.78	3.29
06/10/2013	6.74	4.67	7,371	25.20	15.39	9.17	8.01	7.51	6.45	4.40	3.36
06/11/2013	6.26	4.39	7,262	23.15	14.10	10.06	6.65	6.12	6.44	3.22	3.37
06/12/2013	6.11	4.28	7,472	22.24	14.23	10.96	6.60	6.07	6.43	3.16	3.36
06/13/2013	5.62	3.99	7,196	21.30	13.17	11.79	5.74	5.19	6.42	2.58	3.36
06/14/2013	5.16	3.80	7,413	19.46	11.64	12.52	4.71	4.18	6.43	2.21	3.38
06/15/2013	5.49	4.07	7,374	21.18	13.41	13.38	5.95	5.41	6.52	2.78	3.45
06/16/2013	5.52	3.90	6,959	20.98	13.47	14.23	6.12	5.58	6.57	2.64	3.48
06/17/2013	5.73	3.79	7,541	22.59	12.82	14.58	6.07	5.53	6.49	2.53	3.42
06/18/2013	6.15	3.99	7,458	23.41	13.86	14.42	6.49	5.95	6.38	2.78	3.33
06/19/2013	5.98	3.86	7,162	22.07	13.73	14.29	6.25	5.72	6.28	2.79	3.25
06/20/2013	6.14	3.87	7,222	22.49	13.91	14.20	6.40	5.86	6.20	2.66	3.24
06/21/2013	6.42	4.11	7,284	23.76	14.74	14.18	6.91	6.38	6.18	3.28	3.21
06/22/2013	6.61	4.23	7,950	24.47	15.64	14.15	7.60	7.08	6.17	3.79	3.19
06/23/2013	6.82	4.41	8,129	25.63	16.97	14.08	8.74	8.27	6.06	4.17	3.07
06/24/2013	6.82	4.33	7,283	25.37	15.53	14.09	7.90	7.40	6.05	3.94	3.04
06/25/2013	6.56	4.29	7,411	24.94	10.20	13.81	7.45	6.93	6.11	3.65	3.07
06/26/2013	6.28	4.23	7,529	23.80	9.40	13.46	7.17	6.65	6.15	3.66	3.10
06/27/2013	5.92	4.09	7,111	22.50	12.92	13.45	6.73	6.20	6.22	3.16	3.15

Antioch Tides measured in feet above mean sea level.

Net Delta Outflow Index calculated from equation as specified in D-1641, revised June 1995.

Chippis Island EC calculated from measurements recorded at Mallard Slough.

Electrical Conductivity (EC) units: milliSiemens per Centimeter

md : mean daily

14dm : fourteen day running mean

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e - estimated value

Delta Water Quality Conditions

Date	Antioch		Jersey Point		Emmaton		Cache Slough	Good Year Slough	Sunrise Club	Volanti Slough	Beldon Landing	Collinsville
	mdEC	14mdEC	mdEC	14mdEC	mdEC	14mdEC	mdEC	mhtEC	mhtEC	mhtEC	mhtEC	mhtEC
05/29/2013	1.40	1.13	0.34	0.32	0.47	0.35	0.26	10.43	7.18	7.32	7.19	4.02
05/30/2013	1.09	1.13	0.32	0.32	0.34	0.35	0.29	10.38	6.67	7.33	6.95	3.54
05/31/2013	0.90	1.13	0.30	0.32	0.26	0.35	0.39	10.26	6.56	7.79	6.68	2.87
06/01/2013	0.86	1.14	0.30	0.32	0.27	0.35	0.36	10.19	6.68	7.36	7.25	2.92
06/02/2013	0.98	1.16	0.31	0.32	0.28	0.36	0.37	10.03	6.83	7.29	7.20	3.58
06/03/2013	1.26	1.20	0.35	0.32	0.38	0.37	0.32	9.86	7.12	7.97	7.89	4.31
06/04/2013	1.61	1.24	0.40	0.33	0.57	0.39	0.30	10.18	7.10	8.90	7.64	5.07
06/05/2013	1.52	1.28	0.40	0.34	0.57	0.41	0.31	10.55	7.51	8.69	7.64	4.73
06/06/2013	1.53	1.31	0.40	0.34	0.48	0.43	0.31	11.79	7.81	8.97	7.64	
06/07/2013	1.58	1.33	0.42	0.35	0.52	0.44	0.34	12.76	7.99	9.95	8.09	4.84
06/08/2013	1.77	1.36	0.43	0.36	0.63	0.45	0.33	11.95	8.33	10.00	8.55	4.91
06/09/2013	2.43	1.42	0.60	0.37	1.25	0.50	0.29	11.59	8.76	9.99	9.63	7.18
06/10/2013	1.80	1.43	0.43	0.38	0.78	0.52	0.33	12.07	8.73	10.69	8.74	5.40
06/11/2013	1.50	1.44	0.38	0.38	0.47	0.52	0.39	12.42	8.73	9.91	8.63	4.17
06/12/2013	1.50	1.45	0.40	0.39	0.42	0.52	0.40	12.49	8.52	9.85	8.76	3.99
06/13/2013	1.27	1.46	0.38	0.39	0.33	0.51	0.37	12.53	8.15	9.37	8.29	3.61
06/14/2013	1.18	1.48	0.35	0.40	0.27	0.52	0.37	12.59	8.05	9.06	8.27	3.03
06/15/2013	1.21	1.51	0.36	0.40	0.33	0.52	0.36	12.58	8.20	8.95	8.74	4.09
06/16/2013	1.13	1.52	0.36	0.40	0.28	0.52	0.36	12.24	8.51	8.99	8.52	3.97
06/17/2013	1.08	1.51	0.34	0.40	0.29	0.51	0.38	12.82	8.43	9.73	8.20	3.55
06/18/2013	1.19	1.48	0.35	0.40	0.33	0.50	0.36	12.56	9.86	9.86	8.46	4.18
06/19/2013	1.27	1.46	0.35	0.40	0.36	0.48	0.37	12.33	9.59	9.62	8.45	3.44
06/20/2013	1.23	1.44	0.34	0.39	0.36	0.47	0.32	11.76	9.47	10.21	8.75	3.79
06/21/2013	1.47	1.43	0.37	0.39	0.49	0.47	0.28	11.58	9.60	10.00	9.35	4.15
06/22/2013	1.67	1.42	0.40	0.39	0.57	0.47	0.25	11.43	9.80	10.03	9.55	4.76
06/23/2013	2.03	1.40	0.42	0.37	0.74	0.43	0.28	11.38	10.01	10.00	10.25	5.61
06/24/2013	1.88	1.40	0.40	0.37	0.64	0.42	0.30	11.59	9.95	10.18	10.32	5.36
06/25/2013	1.75	1.42	0.39	0.37	0.54	0.42	0.27	11.76	9.77	9.90	10.69	5.41
06/26/2013	1.63	1.43	0.38	0.37	0.50	0.43	0.27	11.85	9.62	10.59	11.01	4.65
06/27/2013	1.47	1.44	0.37	0.37	0.40	0.44	0.28	12.06	9.45	11.06	10.77	3.87

Electrical Conductivity (EC) units: milliSiemens per Centimeter

Chloride (Cl) units: milligrams per liter

mht : mean high tides

md : mean daily

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e : estimated value

Delta Water Quality Conditions

Date	Bethel Island mdEC	Farrar Park mdEC	Holland Tract mdEC	Bacon Island mdEC	Contra Costa mdEC	Clifton Court mdEC	Tracy Pumping Plant mdEC	Antioch mdCI	Bacon Island mdCI	Contra Costa mdCI	Delta Status
05/29/2013	0.30	0.32	0.29	0.31	NR	0.42	0.50	376	43	45	s
05/30/2013	0.30	0.32	0.29	0.31	0.38	0.43	0.50	277	43	45	s
05/31/2013	0.30	0.32	0.29	0.31	0.37	0.48	0.52	215	43	45 e	s
06/01/2013	0.30	0.33	0.29	0.31	0.36	0.46	0.52	204	42	45 e	s
06/02/2013	0.30	0.33	0.29	0.30	0.35	0.43	0.50	241	41	45 e	s
06/03/2013	0.30	0.33	0.28	0.30	0.34	0.41	0.48	330	39	44	s
06/04/2013	0.30	0.32	0.28	0.29	0.33	0.40	0.44	443	38	41	s
06/05/2013	0.29	0.35	0.28	0.29	0.32	0.44	0.48	415	38	40	s
06/06/2013	0.29	0.35	0.28	0.29	0.31	0.43	0.46	417	38	43	s
06/07/2013	0.30	0.37	0.29	0.29	0.31	0.43	0.48	434	37	39	s
06/08/2013	0.30	0.37	0.29	0.29	0.31	0.43	0.49	492	37	39 e	s
06/09/2013	0.32	0.37	0.29	0.29	0.30	0.40	0.46	703	37	39 e	s
06/10/2013	0.32	0.39	0.29	0.29	0.30	0.46	0.44	503	38	39 e	s
06/11/2013	0.32	0.39	0.30	0.29	0.30	0.42	0.53	409	38	37	s
06/12/2013	0.31	0.40	0.31	0.30	0.30	0.46	0.49	409	39	37	s
06/13/2013	0.32	0.39	0.31	0.30	0.31	0.48	0.49	334	39	38	s
06/14/2013	0.32	0.38	0.30	0.30	0.31	0.42	0.50	305	40	39	s
06/15/2013	0.32	0.38	0.30	0.30	0.31	0.38	0.45	314	40	40	s
06/16/2013	0.32	0.37	0.30	0.30	0.32	0.38	0.45	291	40	41	s
06/17/2013	0.32	0.36	0.29	0.30	0.32	0.40	0.48	273	40	42	s
06/18/2013	0.32	0.35	0.29	0.30	0.31	0.39	0.47	308	39	42	s
06/19/2013	0.32	0.35	0.29	0.29	0.31	0.36	0.43	334	39	41	s
06/20/2013	0.32	0.36	0.29	0.29	0.31	0.34	0.42	322	38	42	s
06/21/2013	0.31	0.36	0.29	0.29	0.31	0.35	0.38	398	38	41	s
06/22/2013	0.31	0.36	0.29	0.29	0.31	0.35	0.36	463	38	41 e	s
06/23/2013	0.31	0.35	0.28	0.29	0.30	0.35	0.36	578	37	41 e	s
06/24/2013	0.31	0.35	0.28	0.29	0.30	0.35	0.36	528	37	39	s
06/25/2013	0.30	0.34	0.28	0.29	0.30	0.34	0.41	488	37	39	s
06/26/2013	0.30	0.34	0.28	0.29	0.30	0.33	0.38	450	36	41	s
06/27/2013	0.30	0.35	0.28	0.28	0.30	0.34	0.38	398	35	40	s

Electrical Conductivity (EC) units: milliSiemens per Centimeter

Chloride (Cl) units: milligrams per liter

md : mean daily

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e : estimated value

Antioch and Bacon Island mdCI are calculated from the respective mdEC values.

Coordinated Operation Agreement Delta Status:

c = excess Delta conditions

b = balanced Delta cond. w/ no storage withdrawal

s = balanced Delta cond. w/ storage withdrawal

Excess Delta conditions with restrictions:

f = fish concerns

r = E/I ratio concerns

Delta Water Quality Conditions

South Delta Stations

Date	Vernalis		Brandt Bridge		Old River Near Tracy		Old River Near Middle River	
	md EC	30 day avg	md EC	30 day avg	md EC	30 day avg	md EC	30 day avg
05/29/2013	0.54	0.35	0.62	0.35	0.81	0.46	0.55	NC
05/30/2013	0.53	0.36	0.62	0.37	0.81	0.48	0.62	NC
05/31/2013	0.57	0.37	0.62	0.38	0.82	0.50	0.59	NC
06/01/2013	0.56	0.38	0.62	0.39	0.84	0.51	0.63	NC
06/02/2013	0.56	0.39	0.63	0.41	0.89	0.53	0.62	NC
06/03/2013	0.55	0.41	0.62	0.42	0.92	0.55	0.69	NC
06/04/2013	0.59	0.42	0.61	0.44	0.93	0.57	0.68	NC
06/05/2013	0.55	0.43	0.62	0.45	0.95	0.59	0.66	NC
06/06/2013	0.56	0.44	0.62	0.47	0.95	0.62	0.66	NC
06/07/2013	0.52	0.45	0.62	0.48	0.94	0.64	0.66	NC
06/08/2013	0.52	0.46	0.63	0.49	0.91	0.66	0.67	NC
06/09/2013	0.52	0.47	0.59	0.51	0.90	0.68	0.67	NC
06/10/2013	0.52	0.48	0.59	0.52	0.81	0.70	0.65	NC
06/11/2013	0.54	0.50	0.63	0.53	0.78	0.71	0.63	0.56
06/12/2013	0.53	0.51	0.63	0.55	0.78	0.73	0.63	0.57
06/13/2013	0.54	0.52	0.63	0.56	0.80	0.74	0.63	0.58
06/14/2013	0.55	0.52	0.64	0.57	0.81	0.76	0.69	0.60
06/15/2013	0.53	0.53	0.63	0.58	0.87	0.78	0.69	0.61
06/16/2013	0.56	0.53	0.62	0.59	0.90	0.79	0.70	0.62
06/17/2013	0.56	0.54	0.62	0.60	0.89	0.81	0.69	0.62
06/18/2013	0.58	0.54	0.63	0.60	0.88	0.82	0.67	0.63
06/19/2013	0.58	0.54	0.62	0.61	0.89	0.83	0.64	0.63
06/20/2013	0.58	0.55	0.64	0.61	0.94	0.84	0.67	0.64
06/21/2013	0.57	0.55	0.64	0.61	1.02	0.85	0.66	0.64
06/22/2013	0.56	0.55	0.64	0.62	1.11	0.86	0.68	0.64
06/23/2013	0.53	0.55	0.65	0.62	1.11	0.88	0.69	0.64
06/24/2013	0.58	0.55	0.67	0.62	1.13	0.89	0.66	0.65
06/25/2013	0.63	0.55	0.69	0.63	1.18	0.90	0.60	0.65
06/26/2013	0.64	0.56	0.69	0.63	1.20	0.92	0.46	0.64
06/27/2013	0.59	0.56	0.68	0.63	1.21	0.93	0.42	0.64

Electrical Conductivity (EC) units: milliSiemens per Centimeter

md : mean daily

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e : estimated value

Compliance Standards

for the Sacramento - San Joaquin Delta and Suisun Marsh

Monday, July 01, 2013

Criteria	Standard	Status
Flow/Operational		
% of inflow diverted	65 %	36 %
NDOI, monthly average *	>= 5,000 cfs	6,885 cfs
NDOI, 7 day average*	>= 4,000 cfs	6,885 cfs
Vernalis Base Flow : Monthly average *	>= 710 cfs	729 cfs
7 Day average *	>= 568 cfs	729 cfs
Habitat Protection, X2 / Flow	30 days at Collinsville	1 days

Water Quality

Days @ CCWD PP#1 w/ chlorides <= 150 mg/l	165 days	182 days
Export Areas for SWP, CVP, CCWD, et al	<= 250 mg/l Cl	38 mg/l
14dm EC at Emmaton	<= 1.67 mS/cm	0.43 mS/cm
14dm EC at Jersey Point	<= 1.35 mS/cm	0.37 mS/cm
Maximum 30 day running average of mean daily EC at:		
Vernalis	<=0.7 mS/cm	0.6 mS/cm
Brandt Bridge	<= 0.7 mS/cm	0.6 mS/cm
Old River Near Tracy	<=0.7 mS/cm	1.0 mS/cm
Old River Near Middle River	<=0.7 mS/cm	0.6 mS/cm

SUISUN MARSH:

Suisun Marsh Salinity Control Gates :	3 Open / 0 Closed / 0 Full Tide Open
Flashboard Status :	Out
Boat Lock Status :	Closed

California Hydrologic Conditions: (California Cooperative Snow Surveys Forecast, May 1, 2013)

Previous Month's Index (8RI for April.): 2.023 MAF

Water Year Type: Dry

Sacramento valley water year type index (40/30/30) @ 50%:5.8 MAF (Dry)

San Joaquin valley water year type index (60/20/20) @ 75%: 1.6 MAF (Critical)

Electrical Conductivity (EC) in milliSiemens per Centimeter.
 Chlorides (Cl) in milligrams per liter
 mht - mean high tides
 md - mean daily
 14 dm - fourteen day running mean
 28 dm - twenty-eight day running mean
 NR - No Record
 NC - Average not computed due to insufficient data.
 BR : Below Rating
 e - estimated value

Montezuma Slough Gate Operation:
 Number of gates operating at either
 Open, Closed, or Full Tide Open
 Flashboard Status : In, Out, or Modified In
 Boat Lock Status : Open or Closed

Coordinated Operation Agreement Delta Status:
 c = excess Delta conditions
 b = balanced Delta cond. w/ no storage withdrawal
 s = balanced Delta cond. w/ storage withdrawal
 Excess Delta conditions with restrictions:
 f = fish concerns
 r = E/I ratio concerns

* NDOI, Rio Vista & Vernalis Flows:
 - Monthly average is progressive daily mean.
 - 7 day average is progressive daily mean for the first six days of the month.

Delta Water Quality Conditions

Date	Antioch Tides		Net Delta Outflow Index cfs	Martinez mdEC	Port Chicago		Mallard mdEC	Chippis Island		Collinsville	
	High	Half			mdEC	14dm		mdEC	14dm	mdEC	14dm
06/02/2013	6.13	4.02	9,053	20.43	1.52	1.91	5.41	4.87	5.70	2.22	2.69
06/03/2013	6.45	4.49	8,563	23.94	7.89	2.32	7.18	6.66	5.88	3.35	2.80
06/04/2013	6.55	4.57	7,386	25.19	16.19	3.31	8.01	7.52	5.97	3.96	2.89
06/05/2013	6.55	4.52	7,243	25.18	15.54	4.25	7.66	7.15	6.08	4.01	2.99
06/06/2013	6.61	4.54	7,307	24.66	15.14	5.17	7.40	6.88	6.17	2.76	3.01
06/07/2013	6.62	4.52	7,507	24.01	14.92	6.07	7.23	6.71	6.20	3.69	3.07
06/08/2013	6.60	4.75	7,527	23.41	16.14	7.06	7.70	7.19	6.22	4.16	3.14
06/09/2013	7.09	5.07	6,899	26.66	17.96	8.19	10.24	9.85	6.41	5.78	3.29
06/10/2013	6.74	4.67	7,371	25.20	15.39	9.17	8.01	7.51	6.45	4.40	3.36
06/11/2013	6.26	4.39	7,262	23.15	14.10	10.06	6.65	6.12	6.44	3.22	3.37
06/12/2013	6.11	4.28	7,472	22.24	14.23	10.96	6.60	6.07	6.43	3.16	3.36
06/13/2013	5.62	3.99	7,196	21.30	13.17	11.79	5.74	5.19	6.42	2.58	3.36
06/14/2013	5.16	3.80	7,413	19.46	11.64	12.52	4.71	4.18	6.43	2.21	3.38
06/15/2013	5.49	4.07	7,374	21.18	13.41	13.38	5.95	5.41	6.52	2.78	3.45
06/16/2013	5.52	3.90	6,959	20.98	13.47	14.23	6.12	5.58	6.57	2.64	3.48
06/17/2013	5.73	3.79	7,541	22.59	12.82	14.58	6.07	5.53	6.49	2.53	3.42
06/18/2013	6.15	3.99	7,458	23.41	13.86	14.42	6.49	5.95	6.38	2.78	3.33
06/19/2013	5.98	3.86	7,162	22.07	13.73	14.29	6.25	5.72	6.28	2.79	3.25
06/20/2013	6.14	3.87	7,222	22.49	13.91	14.20	6.40	5.86	6.20	2.66	3.24
06/21/2013	6.42	4.11	7,284	23.76	14.74	14.18	6.91	6.38	6.18	3.28	3.21
06/22/2013	6.61	4.23	7,950	24.47	15.64	14.15	7.60	7.08	6.17	3.79	3.19
06/23/2013	6.82	4.41	8,129	25.63	16.97	14.08	8.74	8.27	6.06	4.17	3.07
06/24/2013	6.82	4.33	7,283	25.37	15.53	14.09	7.90	7.40	6.05	3.94	3.04
06/25/2013	6.56	4.29	7,411	24.94	10.20	13.81	7.45	6.93	6.11	3.65	3.07
06/26/2013	6.28	4.23	7,529	23.80	9.40	13.46	7.17	6.65	6.15	3.66	3.10
06/27/2013	5.92	4.09	7,111	22.50	12.92	13.45	6.73	6.20	6.22	3.16	3.15
06/28/2013	5.65	4.02	7,809	21.22	13.44	13.57	6.08	5.54	6.32	2.82	3.19
06/29/2013	5.83	4.00	8,744	20.94	13.38	13.57	6.09	5.55	6.33	2.67	3.18
06/30/2013	6.06	4.10	9,216	21.47	13.43	13.57	6.25	5.71	6.34	2.83	3.19
07/01/2013	6.11	4.10	6,885	21.12	12.69	13.56	6.30	5.76	6.36	2.81	3.21

Antioch Tides measured in feet above mean sea level.

Net Delta Outflow Index calculated from equation as specified in D-1641, revised June 1995.

Chippis Island EC calculated from measurements recorded at Mallard Slough.

Electrical Conductivity (EC) units: milliSiemens per Centimeter

md : mean daily

14dm : fourteen day running mean

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e - estimated value

Delta Water Quality Conditions

Date	Antioch		Jersey Point		Emmaton		Cache Slough	Good Year Slough	Sunrise Club	Volanti Slough	Beldon Landing	Collinsville
	mdEC	14mdEC	mdEC	14mdEC	mdEC	14mdEC	mdEC	mhtEC	mhtEC	mhtEC	mhtEC	mhtEC
06/02/2013	0.98	1.16	0.31	0.32	0.28	0.36	0.37	10.03	6.83	7.29	7.20	3.58
06/03/2013	1.26	1.20	0.35	0.32	0.38	0.37	0.32	9.86	7.12	7.97	7.89	4.31
06/04/2013	1.61	1.24	0.40	0.33	0.57	0.39	0.30	10.18	7.10	8.90	7.64	5.07
06/05/2013	1.52	1.28	0.40	0.34	0.57	0.41	0.31	10.55	7.51	8.69	7.64	4.73
06/06/2013	1.53	1.31	0.40	0.34	0.48	0.43	0.31	11.79	7.81	8.97	7.64	
06/07/2013	1.58	1.33	0.42	0.35	0.52	0.44	0.34	12.76	7.99	9.95	8.09	4.84
06/08/2013	1.77	1.36	0.43	0.36	0.63	0.45	0.33	11.95	8.33	10.00	8.55	4.91
06/09/2013	2.43	1.42	0.60	0.37	1.25	0.50	0.29	11.59	8.76	9.99	9.63	7.18
06/10/2013	1.80	1.43	0.43	0.38	0.78	0.52	0.33	12.07	8.73	10.69	8.74	5.40
06/11/2013	1.50	1.44	0.38	0.38	0.47	0.52	0.39	12.42	8.73	9.91	8.63	4.17
06/12/2013	1.50	1.45	0.40	0.39	0.42	0.52	0.40	12.49	8.52	9.85	8.76	3.99
06/13/2013	1.27	1.46	0.38	0.39	0.33	0.51	0.37	12.53	8.15	9.37	8.29	3.61
06/14/2013	1.18	1.48	0.35	0.40	0.27	0.52	0.37	12.59	8.05	9.06	8.27	3.03
06/15/2013	1.21	1.51	0.36	0.40	0.33	0.52	0.36	12.58	8.20	8.95	8.74	4.09
06/16/2013	1.13	1.52	0.36	0.40	0.28	0.52	0.36	12.24	8.51	8.99	8.52	3.97
06/17/2013	1.08	1.51	0.34	0.40	0.29	0.51	0.38	12.82	8.43	9.73	8.20	3.55
06/18/2013	1.19	1.48	0.35	0.40	0.33	0.50	0.36	12.56	9.86	9.86	8.46	4.18
06/19/2013	1.27	1.46	0.35	0.40	0.36	0.48	0.37	12.33	9.59	9.62	8.45	3.44
06/20/2013	1.23	1.44	0.34	0.39	0.36	0.47	0.32	11.76	9.47	10.21	8.75	3.79
06/21/2013	1.47	1.43	0.37	0.39	0.49	0.47	0.28	11.58	9.60	10.00	9.35	4.15
06/22/2013	1.67	1.42	0.40	0.39	0.57	0.47	0.25	11.43	9.80	10.03	9.55	4.76
06/23/2013	2.03	1.40	0.42	0.37	0.74	0.43	0.28	11.38	10.01	10.00	10.25	5.61
06/24/2013	1.88	1.40	0.40	0.37	0.64	0.42	0.30	11.59	9.95	10.18	10.32	5.36
06/25/2013	1.75	1.42	0.39	0.37	0.54	0.42	0.27	11.76	9.77	9.90	10.69	5.41
06/26/2013	1.63	1.43	0.38	0.37	0.50	0.43	0.27	11.85	9.62	10.59	11.01	4.65
06/27/2013	1.47	1.44	0.37	0.37	0.40	0.44	0.28	12.06	9.45	11.06	10.77	3.87
06/28/2013	1.30	1.45	0.36	0.37	0.34	0.44	0.28	12.10	9.35	10.66	10.40	3.79
06/29/2013	1.28	1.46	0.36	0.37	0.29	0.44	0.29	11.93	9.43	10.52	10.31	3.72
06/30/2013	1.33	1.47	0.38	0.37	0.26	0.44	0.33	11.72	9.58	10.20	10.45	4.24
07/01/2013	1.36	1.49	0.39	0.37	0.27	0.43	0.38	11.48	9.49	10.45	10.46	3.75

Electrical Conductivity (EC) units: milliSiemens per Centimeter

Chloride (Cl) units: milligrams per liter

mht : mean high tides

md : mean daily

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e : estimated value

Delta Water Quality Conditions

Date	Bethel Island mdEC	Farrar Park mdEC	Holland Tract mdEC	Bacon Island mdEC	Contra Costa mdEC	Clifton Court mdEC	Tracy Pumping Plant mdEC	Antioch mdCl	Bacon Island mdCl	Contra Costa mdCl	Delta Status
06/02/2013	0.30	0.33	0.29	0.30	0.35	0.43	0.50	241	41	45 e	s
06/03/2013	0.30	0.33	0.28	0.30	0.34	0.41	0.48	330	39	44	s
06/04/2013	0.30	0.32	0.28	0.29	0.33	0.40	0.44	443	38	41	s
06/05/2013	0.29	0.35	0.28	0.29	0.32	0.44	0.48	415	38	40	s
06/06/2013	0.29	0.35	0.28	0.29	0.31	0.43	0.46	417	38	43	s
06/07/2013	0.30	0.37	0.29	0.29	0.31	0.43	0.48	434	37	39	s
06/08/2013	0.30	0.37	0.29	0.29	0.31	0.43	0.49	492	37	39 e	s
06/09/2013	0.32	0.37	0.29	0.29	0.30	0.40	0.46	703	37	39 e	s
06/10/2013	0.32	0.39	0.29	0.29	0.30	0.46	0.44	503	38	39 e	s
06/11/2013	0.32	0.39	0.30	0.29	0.30	0.42	0.53	409	38	37	s
06/12/2013	0.31	0.40	0.31	0.30	0.30	0.46	0.49	409	39	37	s
06/13/2013	0.32	0.39	0.31	0.30	0.31	0.48	0.49	334	39	38	s
06/14/2013	0.32	0.38	0.30	0.30	0.31	0.42	0.50	305	40	39	s
06/15/2013	0.32	0.38	0.30	0.30	0.31	0.38	0.45	314	40	40	s
06/16/2013	0.32	0.37	0.30	0.30	0.32	0.38	0.45	291	40	41	s
06/17/2013	0.32	0.36	0.29	0.30	0.32	0.40	0.48	273	40	42	s
06/18/2013	0.32	0.35	0.29	0.30	0.31	0.39	0.47	308	39	42	s
06/19/2013	0.32	0.35	0.29	0.29	0.31	0.36	0.43	334	39	41	s
06/20/2013	0.32	0.36	0.29	0.29	0.31	0.34	0.42	322	38	42	s
06/21/2013	0.31	0.36	0.29	0.29	0.31	0.35	0.38	398	38	41	s
06/22/2013	0.31	0.36	0.29	0.29	0.31	0.35	0.36	463	38	41 e	s
06/23/2013	0.31	0.35	0.28	0.29	0.30	0.35	0.36	578	37	41 e	s
06/24/2013	0.31	0.35	0.28	0.29	0.30	0.35	0.36	528	37	39	s
06/25/2013	0.30	0.34	0.28	0.29	0.30	0.34	0.41	488	37	39	s
06/26/2013	0.30	0.34	0.28	0.29	0.30	0.33	0.38	450	36	41	s
06/27/2013	0.30	0.35	0.28	0.28	0.30	0.34	0.38	398	35	40	s
06/28/2013	0.30	0.34	0.27	0.28	0.30	0.33	0.41	344	34	39	s
06/29/2013	0.30	0.34	0.27	0.27	0.30	0.32	0.41	337	33	39 e	s
06/30/2013	0.30	0.34	0.27	0.27	0.30	0.31	0.41	355	33	39 e	s
07/01/2013	0.30	0.35	0.26	0.27	0.30	0.31	0.39	363	31	38	s

Electrical Conductivity (EC) units: milliSiemens per Centimeter

Chloride (Cl) units: milligrams per liter

md : mean daily

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e : estimated value

Antioch and Bacon Island mdCl are calculated from the respective mdEC values.

Coordinated Operation Agreement Delta Status:

c = excess Delta conditions

b = balanced Delta cond. w/ no storage withdrawal

s = balanced Delta cond. w/ storage withdrawal

Excess Delta conditions with restrictions:

f = fish concerns

r = E/I ratio concerns

Delta Water Quality Conditions

South Delta Stations

Date	Vernalis		Brandt Bridge		Old River Near Tracy		Old River Near Middle River	
	md EC	30 day avg	md EC	30 day avg	md EC	30 day avg	md EC	30 day avg
06/02/2013	0.56	0.39	0.63	0.41	0.89	0.53	0.62	NC
06/03/2013	0.55	0.41	0.62	0.42	0.92	0.55	0.69	NC
06/04/2013	0.59	0.42	0.61	0.44	0.93	0.57	0.68	NC
06/05/2013	0.55	0.43	0.62	0.45	0.95	0.59	0.66	NC
06/06/2013	0.56	0.44	0.62	0.47	0.95	0.62	0.66	NC
06/07/2013	0.52	0.45	0.62	0.48	0.94	0.64	0.66	NC
06/08/2013	0.52	0.46	0.63	0.49	0.91	0.66	0.67	NC
06/09/2013	0.52	0.47	0.59	0.51	0.90	0.68	0.67	NC
06/10/2013	0.52	0.48	0.59	0.52	0.81	0.70	0.65	NC
06/11/2013	0.54	0.50	0.63	0.53	0.78	0.71	0.63	0.56
06/12/2013	0.53	0.51	0.63	0.55	0.78	0.73	0.63	0.57
06/13/2013	0.54	0.52	0.63	0.56	0.80	0.74	0.63	0.58
06/14/2013	0.55	0.52	0.64	0.57	0.81	0.76	0.69	0.60
06/15/2013	0.53	0.53	0.63	0.58	0.87	0.78	0.69	0.61
06/16/2013	0.56	0.53	0.62	0.59	0.90	0.79	0.70	0.62
06/17/2013	0.56	0.54	0.62	0.60	0.89	0.81	0.69	0.62
06/18/2013	0.58	0.54	0.63	0.60	0.88	0.82	0.67	0.63
06/19/2013	0.58	0.54	0.62	0.61	0.89	0.83	0.64	0.63
06/20/2013	0.58	0.55	0.64	0.61	0.94	0.84	0.67	0.64
06/21/2013	0.57	0.55	0.64	0.61	1.02	0.85	0.66	0.64
06/22/2013	0.56	0.55	0.64	0.62	1.11	0.86	0.68	0.64
06/23/2013	0.53	0.55	0.65	0.62	1.11	0.88	0.69	0.64
06/24/2013	0.58	0.55	0.67	0.62	1.13	0.89	0.66	0.65
06/25/2013	0.63	0.55	0.69	0.63	1.18	0.90	0.60	0.65
06/26/2013	0.64	0.56	0.69	0.63	1.20	0.92	0.46	0.64
06/27/2013	0.59	0.56	0.68	0.63	1.21	0.93	0.42	0.64
06/28/2013	0.59	0.56	0.67	0.64	1.18	0.94	0.47	0.64
06/29/2013	0.58	0.56	0.68	0.64	1.09	0.95	0.53	0.63
06/30/2013	0.53	0.56	0.68	0.64	1.05	0.96	0.54	0.63
07/01/2013	0.53	0.56	0.66	0.64	0.92	0.96	0.62	0.63

Electrical Conductivity (EC) units: milliSiemens per Centimeter

md : mean daily

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e : estimated value

Compliance Standards

for the Sacramento - San Joaquin Delta and Suisun Marsh

Monday, July 08, 2013

Criteria	Standard	Status
Flow/Operational		
% of inflow diverted	65 %	49 %
NDOI, monthly average *	>= 5,000 cfs	5,320 cfs
NDOI, 7 day average*	>= 4,000 cfs	5,097 cfs

Water Quality

Days @ CCWD PP#1 w/ chlorides <= 150 mg/l	165 days	189 days
Export Areas for SWP, CVP, CCWD, et al	<= 250 mg/l Cl	35 mg/l
14dm EC at Emmaton	<= 1.67 mS/cm	0.45 mS/cm
14dm EC at Jersey Point	<= 1.35 mS/cm	0.51 mS/cm
Maximum 30 day running average of mean daily EC at:		
Vernalis	<=0.7 mS/cm	0.5 mS/cm
Brandt Bridge	<= 0.7 mS/cm	0.6 mS/cm
Old River Near Tracy	<=0.7 mS/cm	1.0 mS/cm
Old River Near Middle River	<=0.7 mS/cm	0.6 mS/cm

SUISUN MARSH:

Suisun Marsh Salinity Control Gates : 3 Open / 0 Closed / 0 Full Tide Open
Flashboard Status : Out
Boat Lock Status : Closed

California Hydrologic Conditions: (California Cooperative Snow Surveys Forecast, May 1, 2013)

Previous Month's Index (8RI for April.): 2.023 MAF

Water Year Type: Dry

Sacramento valley water year type index (40/30/30) @ 50%:5.8 MAF (Dry)

San Joaquin valley water year type index (60/20/20) @ 75%: 1.6 MAF (Critical)

Electrical Conductivity (EC) in milliSiemens per Centimeter.

Chlorides (Cl) in milligrams per liter

mht - mean high tides

md - mean daily

14 dm - fourteen day running mean

28 dm - twenty-eight day running mean

NR - No Record

NC - Average not computed due to insufficient data.

BR : Below Rating

e - estimated value

Montezuma Slough Gate Operation:

Number of gates operating at either
Open, Closed, or Full Tide Open

Flashboard Status : In, Out, or Modified In

Boat Lock Status : Open or Closed

Coordinated Operation Agreement Delta Status:

c = excess Delta conditions

b = balanced Delta cond. w/ no storage withdrawal

s = balanced Delta cond. w/ storage withdrawal

Excess Delta conditions with restrictions:

f = fish concerns

r = E/I ratio concerns

* NDOI, Rio Vista & Vernalis Flows:

- Monthly average is progressive daily mean.

- 7 day average is progressive daily mean for the first six days of the month.

Delta Water Quality Conditions

Date	Antioch Tides		Net Delta Outflow Index cfs	Martinez mdEC	Port Chicago		Mallard mdEC	Chipps Island		Collinsville	
	High	Half			mdEC	14dm		mdEC	14dm	mdEC	14dm
06/09/2013	7.09	5.07	6,899	26.86	17.96	8.19	10.24	9.85	6.41	5.78	3.29
06/10/2013	6.74	4.67	7,371	25.20	15.39	9.17	8.01	7.51	6.45	4.40	3.36
06/11/2013	6.26	4.39	7,262	23.15	14.10	10.06	6.65	6.12	6.44	3.22	3.37
06/12/2013	6.11	4.28	7,472	22.24	14.23	10.96	6.60	6.07	6.43	3.16	3.36
06/13/2013	5.62	3.99	7,196	21.30	13.17	11.79	5.74	5.19	6.42	2.58	3.36
06/14/2013	5.16	3.80	7,413	19.46	11.64	12.52	4.71	4.18	6.43	2.21	3.38
06/15/2013	5.49	4.07	7,374	21.18	13.41	13.38	5.95	5.41	6.52	2.78	3.45
06/16/2013	5.52	3.90	6,959	20.98	13.47	14.23	6.12	5.58	6.57	2.64	3.48
06/17/2013	5.73	3.79	7,541	22.59	12.82	14.58	6.07	5.53	6.49	2.53	3.42
06/18/2013	6.15	3.99	7,458	23.41	13.86	14.42	6.49	5.95	6.38	2.78	3.33
06/19/2013	5.98	3.86	7,162	22.07	13.73	14.29	6.25	5.72	6.28	2.79	3.25
06/20/2013	6.14	3.87	7,222	22.49	13.91	14.20	6.40	5.86	6.20	2.66	3.24
06/21/2013	6.42	4.11	7,284	23.76	14.74	14.18	6.91	6.38	6.18	3.28	3.21
06/22/2013	6.61	4.23	7,950	24.47	15.64	14.15	7.60	7.08	6.17	3.79	3.19
06/23/2013	6.82	4.41	8,129	25.63	16.97	14.08	8.74	8.27	6.06	4.17	3.07
06/24/2013	6.82	4.33	7,283	25.37	15.53	14.09	7.90	7.40	6.05	3.94	3.04
06/25/2013	6.56	4.29	7,411	24.94	10.20	13.81	7.45	6.93	6.11	3.65	3.07
06/26/2013	6.28	4.23	7,529	23.80	9.40	13.46	7.17	6.65	6.15	3.66	3.10
06/27/2013	5.92	4.09	7,111	22.50	12.92	13.45	6.73	6.20	6.22	3.16	3.15
06/28/2013	5.65	4.02	7,809	21.22	13.44	13.57	6.08	5.54	6.32	2.82	3.19
06/29/2013	5.83	4.00	8,744	20.94	13.38	13.57	6.09	5.55	6.33	2.67	3.18
06/30/2013	6.06	4.10	9,216	21.47	13.43	13.57	6.25	5.71	6.34	2.83	3.19
07/01/2013	6.11	4.10	6,885	21.12	12.69	13.56	6.30	5.76	6.36	2.81	3.21
07/02/2013	6.48	4.39	5,944	22.98	14.52	13.61	7.29	6.77	6.42	3.43	3.26
07/03/2013	6.41	4.47	5,225	24.56	14.67	13.67	8.10	7.60	6.55	4.10	3.35
07/04/2013	6.51	4.59	4,886	25.63	16.08	13.83	8.74	8.27	6.72	4.52	3.49
07/05/2013	6.65	4.67	5,303	27.09	18.01	14.06	9.65	9.23	6.93	4.73	3.59
07/06/2013	6.80	4.77	4,901	26.51	18.28	14.25	9.72	9.30	7.08	5.42	3.71
07/07/2013	6.78	4.73	5,285	26.44	17.49	14.29	10.06	9.66	7.18	5.72	3.82
07/08/2013	6.70	4.61	4,134	26.14	16.49	14.36	9.88	9.47	7.33	5.46	3.93

Antioch Tides measured in feet above mean sea level.

Net Delta Outflow Index calculated from equation as specified in D-1641, revised June 1995.

Chipps Island EC calculated from measurements recorded at Mallard Slough.

Electrical Conductivity (EC) units: milliSiemens per Centimeter

md : mean daily

14dm : fourteen day running mean

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e - estimated value

Delta Water Quality Conditions

Date	Antioch		Jersey Point		Emmaton		Cache Slough	Good Year Slough	Sunrise Club	Volanti Slough	Beldon Landing	Collinsville
	mdEC	14mdEC	mdEC	14mdEC	mdEC	14mdEC	mdEC	mhtEC	mhtEC	mhtEC	mhtEC	mhtEC
06/09/2013	2.43	1.42	0.60	0.37	1.25	0.50	0.29	11.59	8.76	9.99	9.63	7.18
06/10/2013	1.80	1.43	0.43	0.38	0.78	0.52	0.33	12.07	8.73	10.69	8.74	5.40
06/11/2013	1.50	1.44	0.38	0.38	0.47	0.52	0.39	12.42	8.73	9.91	8.63	4.17
06/12/2013	1.50	1.45	0.40	0.39	0.42	0.52	0.40	12.49	8.52	9.85	8.76	3.99
06/13/2013	1.27	1.46	0.38	0.39	0.33	0.51	0.37	12.53	8.15	9.37	8.29	3.61
06/14/2013	1.18	1.48	0.35	0.40	0.27	0.52	0.37	12.59	8.05	9.06	8.27	3.03
06/15/2013	1.21	1.51	0.36	0.40	0.33	0.52	0.36	12.58	8.20	8.95	8.74	4.09
06/16/2013	1.13	1.52	0.36	0.40	0.28	0.52	0.36	12.24	8.51	8.99	8.52	3.97
06/17/2013	1.08	1.51	0.34	0.40	0.29	0.51	0.38	12.82	8.43	9.73	8.20	3.55
06/18/2013	1.19	1.48	0.35	0.40	0.33	0.50	0.36	12.56	9.86	9.86	8.46	4.18
06/19/2013	1.27	1.46	0.35	0.40	0.36	0.48	0.37	12.33	9.59	9.62	8.45	3.44
06/20/2013	1.23	1.44	0.34	0.39	0.36	0.47	0.32	11.76	9.47	10.21	8.75	3.79
06/21/2013	1.47	1.43	0.37	0.39	0.49	0.47	0.28	11.58	9.60	10.00	9.35	4.15
06/22/2013	1.67	1.42	0.40	0.39	0.57	0.47	0.25	11.43	9.80	10.03	9.55	4.76
06/23/2013	2.03	1.40	0.42	0.37	0.74	0.43	0.28	11.38	10.01	10.00	10.25	5.61
06/24/2013	1.88	1.40	0.40	0.37	0.64	0.42	0.30	11.59	9.95	10.18	10.32	5.36
06/25/2013	1.75	1.42	0.39	0.37	0.54	0.42	0.27	11.76	9.77	9.90	10.69	5.41
06/26/2013	1.63	1.43	0.38	0.37	0.50	0.43	0.27	11.85	9.62	10.59	11.01	4.65
06/27/2013	1.47	1.44	0.37	0.37	0.40	0.44	0.28	12.06	9.45	11.06	10.77	3.87
06/28/2013	1.30	1.45	0.36	0.37	0.34	0.44	0.28	12.10	9.35	10.66	10.40	3.79
06/29/2013	1.28	1.46	0.36	0.37	0.29	0.44	0.29	11.93	9.43	10.52	10.31	3.72
06/30/2013	1.33	1.47	0.38	0.37	0.26	0.44	0.33	11.72	9.58	10.20	10.45	4.24
07/01/2013	1.36	1.49	0.39	0.37	0.27	0.43	0.38	11.48	9.49	10.45	10.46	3.75
07/02/2013	1.58	1.52	0.45	0.38	0.26	0.43	0.43	11.32	9.49	11.26	10.37	4.94
07/03/2013	1.89	1.56	0.54	0.39	0.38	0.43	0.43	11.24	9.63	11.11	10.18	4.65
07/04/2013	2.19	1.63	0.60	0.41	0.43	0.44	0.36	11.26	9.80	11.69	10.37	5.55
07/05/2013	2.56	1.71	0.67	0.43	0.60	0.44	0.32	11.33	11.02	11.55	10.48	5.68
07/06/2013	2.65	1.78	0.72	0.46	0.66	0.45	0.29	11.50	12.21	12.21	10.44	6.58
07/07/2013	2.82	1.83	0.77	0.48	0.69	0.45	0.31	11.73	11.76	11.56	10.43	6.77
07/08/2013	2.75	1.90	0.79	0.51	0.65	0.45	0.33	11.96	11.05	12.13	10.94	6.27

Electrical Conductivity (EC) units: milliSiemens per Centimeter

Chloride (Cl) units: milligrams per liter

mht : mean high tides

md : mean daily

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e : estimated value

Delta Water Quality Conditions

Date	Bethel Island mdEC	Farrar Park mdEC	Holland Tract mdEC	Bacon Island mdEC	Contra Costa mdEC	Clifton Court mdEC	Tracy Pumping Plant mdEC	Antioch mdCl	Bacon Island mdCl	Contra Costa mdCl	Delta Status
06/09/2013	0.32	0.37	0.29	0.29	0.30	0.40	0.46	703	37	39 e	s
06/10/2013	0.32	0.39	0.29	0.29	0.30	0.46	0.44	503	38	39 e	s
06/11/2013	0.32	0.39	0.30	0.29	0.30	0.42	0.53	409	38	37	s
06/12/2013	0.31	0.40	0.31	0.30	0.30	0.46	0.49	409	39	37	s
06/13/2013	0.32	0.39	0.31	0.30	0.31	0.48	0.49	334	39	38	s
06/14/2013	0.32	0.38	0.30	0.30	0.31	0.42	0.50	305	40	39	s
06/15/2013	0.32	0.38	0.30	0.30	0.31	0.38	0.45	314	40	40	s
06/16/2013	0.32	0.37	0.30	0.30	0.32	0.38	0.45	291	40	41	s
06/17/2013	0.32	0.36	0.29	0.30	0.32	0.40	0.48	273	40	42	s
06/18/2013	0.32	0.35	0.29	0.30	0.31	0.39	0.47	308	39	42	s
06/19/2013	0.32	0.35	0.29	0.29	0.31	0.36	0.43	334	39	41	s
06/20/2013	0.32	0.36	0.29	0.29	0.31	0.34	0.42	322	38	42	s
06/21/2013	0.31	0.36	0.29	0.29	0.31	0.35	0.38	398	38	41	s
06/22/2013	0.31	0.36	0.29	0.29	0.31	0.35	0.36	463	38	41 e	s
06/23/2013	0.31	0.35	0.28	0.29	0.30	0.35	0.36	578	37	41 e	s
06/24/2013	0.31	0.35	0.28	0.29	0.30	0.35	0.36	528	37	39	s
06/25/2013	0.30	0.34	0.28	0.29	0.30	0.34	0.41	488	37	39	s
06/26/2013	0.30	0.34	0.28	0.29	0.30	0.33	0.38	450	36	41	s
06/27/2013	0.30	0.35	0.28	0.28	0.30	0.34	0.38	398	35	40	s
06/28/2013	0.30	0.34	0.27	0.28	0.30	0.33	0.41	344	34	39	s
06/29/2013	0.30	0.34	0.27	0.27	0.30	0.32	0.41	337	33	39 e	s
06/30/2013	0.30	0.34	0.27	0.27	0.30	0.31	0.41	355	33	39 e	s
07/01/2013	0.30	0.35	0.26	0.27	0.30	0.31	0.39	363	31	38	s
07/02/2013	0.30	0.35	0.26	0.26	0.30	0.30	0.32	434	30	38	s
07/03/2013	0.31	0.38	0.27	0.26	0.29	0.29	0.30	533	30	37	s
07/04/2013	0.33	0.37	0.29	0.26	0.29	0.28	0.30	626	30	33 e	s
07/05/2013	0.35	0.38	0.29	0.27	0.29	0.27	0.30	745	31	37	s
07/06/2013	0.37	0.40	0.31	0.27	0.28	0.27	0.30	773	32	37 e	s
07/07/2013	0.38	0.42	0.33	0.28	0.28	0.27	0.30	828	35	37 e	s
07/08/2013	0.40	0.45	0.36	0.30	0.28	0.27	0.30	806	41	35	s

Electrical Conductivity (EC) units: milliSiemens per Centimeter

Chloride (Cl) units: milligrams per liter

md : mean daily

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e : estimated value

Antioch and Bacon Island mdCl are calculated from the respective mdEC values.

Coordinated Operation Agreement Delta Status:

c = excess Delta conditions

b = balanced Delta cond. w/ no storage withdrawal

s = balanced Delta cond. w/ storage withdrawal

Excess Delta conditions with restrictions:

f = fish concerns

r = E/I ratio concerns

Delta Water Quality Conditions

South Delta Stations

Date	Vernalis		Brandt Bridge		Old River Near Tracy		Old River Near Middle River	
	md EC	30 day avg	md EC	30 day avg	md EC	30 day avg	md EC	30 day avg
06/09/2013	0.52	0.47	0.59	0.51	0.90	0.68	0.67	NC
06/10/2013	0.52	0.48	0.59	0.52	0.81	0.70	0.65	NC
06/11/2013	0.54	0.50	0.63	0.53	0.78	0.71	0.63	0.56
06/12/2013	0.53	0.51	0.63	0.55	0.78	0.73	0.63	0.57
06/13/2013	0.54	0.52	0.63	0.56	0.80	0.74	0.63	0.58
06/14/2013	0.55	0.52	0.64	0.57	0.81	0.76	0.69	0.60
06/15/2013	0.53	0.53	0.63	0.58	0.87	0.78	0.69	0.61
06/16/2013	0.56	0.53	0.62	0.59	0.90	0.79	0.70	0.62
06/17/2013	0.56	0.54	0.62	0.60	0.89	0.81	0.69	0.62
06/18/2013	0.58	0.54	0.63	0.60	0.88	0.82	0.67	0.63
06/19/2013	0.58	0.54	0.62	0.61	0.89	0.83	0.64	0.63
06/20/2013	0.58	0.55	0.64	0.61	0.94	0.84	0.67	0.64
06/21/2013	0.57	0.55	0.64	0.61	1.02	0.85	0.66	0.64
06/22/2013	0.56	0.55	0.64	0.62	1.11	0.86	0.68	0.64
06/23/2013	0.53	0.55	0.65	0.62	1.11	0.88	0.69	0.64
06/24/2013	0.58	0.55	0.67	0.62	1.13	0.89	0.66	0.65
06/25/2013	0.63	0.55	0.69	0.63	1.18	0.90	0.60	0.65
06/26/2013	0.64	0.56	0.69	0.63	1.20	0.92	0.46	0.64
06/27/2013	0.59	0.56	0.68	0.63	1.21	0.93	0.42	0.64
06/28/2013	0.59	0.56	0.67	0.64	1.18	0.94	0.47	0.64
06/29/2013	0.58	0.56	0.68	0.64	1.09	0.95	0.53	0.63
06/30/2013	0.53	0.56	0.68	0.64	1.05	0.96	0.54	0.63
07/01/2013	0.53	0.56	0.66	0.64	0.92	0.96	0.62	0.63
07/02/2013	0.48	0.56	0.65	0.64	0.92	0.97	0.61	0.63
07/03/2013	0.49	0.56	0.58	0.64	0.93	0.97	0.67	0.63
07/04/2013	0.53	0.55	0.59	0.64	0.90	0.96	0.67	0.63
07/05/2013	0.49	0.55	0.63	0.64	0.89	0.96	0.65	0.63
07/06/2013	0.47	0.55	0.68	0.64	0.85	0.96	0.56	0.63
07/07/2013	0.47	0.55	0.71	0.64	0.84	0.96	0.64	0.63
07/08/2013	0.50	0.55	0.71	0.65	0.82	0.95	0.66	0.63

Electrical Conductivity (EC) units: milliSiemens per Centimeter

md : mean daily

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e : estimated value

Compliance Standards

for the Sacramento - San Joaquin Delta and Suisun Marsh

Monday, July 15, 2013

Criteria	Standard	Status
Flow/Operational		
% of inflow diverted	65 %	47 %
NDOI, monthly average *	>= 5,000 cfs	5,218 cfs
NDOI, 7 day average*	>= 4,000 cfs	5,102 cfs

Water Quality

Days @ CCWD PP#1 w/ chlorides <= 150 mg/l	165 days	196 days
Export Areas for SWP, CVP, CCWD, et al	<= 250 mg/l Cl	60 mg/l
14dm EC at Emmaton	<= 1.67 mS/cm	0.50 mS/cm
14dm EC at Jersey Point	<= 1.35 mS/cm	0.75 mS/cm
Maximum 30 day running average of mean daily EC at:		
Vernalis	<=0.7 mS/cm	0.5 mS/cm
Brandt Bridge	<= 0.7 mS/cm	0.7 mS/cm
Old River Near Tracy	<=0.7 mS/cm	0.9 mS/cm
Old River Near Middle River	<=0.7 mS/cm	0.6 mS/cm

SUISUN MARSH:

Suisun Marsh Salinity Control Gates : 3 Open / 0 Closed / 0 Full Tide Open
Flashboard Status : Out
Boat Lock Status : Closed

California Hydrologic Conditions: (California Cooperative Snow Surveys Forecast, May 1, 2013)

Previous Month's Index (8RI for April.): 2.023 MAF

Water Year Type: Dry

Sacramento valley water year type index (40/30/30) @ 50%:5.8 MAF (Dry)

San Joaquin valley water year type index (60/20/20) @ 75%: 1.6 MAF (Critical)

Electrical Conductivity (EC) in milliSiemens per Centimeter.
Chlorides (Cl) in milligrams per liter
mht - mean high tides
md - mean daily
14 dm - fourteen day running mean
28 dm - twenty-eight day running mean
NR - No Record
NC - Average not computed due to insufficient data.
BR - Below Rating
e - estimated value

Montezuma Slough Gate Operation:
Number of gates operating at either
Open, Closed, or Full Tide Open
Flashboard Status : In, Out, or Modified In
Boat Lock Status : Open or Closed

Coordinated Operation Agreement Delta Status:
c = excess Delta conditions
b = balanced Delta cond. w/ no storage withdrawal
s = balanced Delta cond. w/ storage withdrawal
Excess Delta conditions with restrictions:
f = fish concerns
r = E/I ratio concerns

* NDOI, Rio Vista & Vernalis Flows:
- Monthly average is progressive daily mean.
- 7 day average is progressive daily mean for the first six days of the month.

Delta Water Quality Conditions

Date	Antioch Tides		Net Delta Outflow Index cts	Martinez mdEC	Port Chicago		Mallard mdEC	Chippis Island		Collinsville	
	High	Half			mdEC	14dm		mdEC	14dm	mdEC	14dm
06/16/2013	5.52	3.90	6,959	20.98	13.47	14.23	6.12	5.58	6.57	2.64	3.48
06/17/2013	5.73	3.79	7,541	22.59	12.82	14.58	6.07	5.53	6.49	2.53	3.42
06/18/2013	6.15	3.99	7,458	23.41	13.86	14.42	6.49	5.95	6.38	2.78	3.33
06/19/2013	5.98	3.86	7,162	22.07	13.73	14.29	6.25	5.72	6.28	2.79	3.25
06/20/2013	6.14	3.87	7,222	22.49	13.91	14.20	6.40	5.86	6.20	2.66	3.24
06/21/2013	6.42	4.11	7,284	23.76	14.74	14.18	6.91	6.38	6.18	3.28	3.21
06/22/2013	6.61	4.23	7,950	24.47	15.64	14.15	7.60	7.08	6.17	3.79	3.19
06/23/2013	6.82	4.41	8,129	25.63	16.97	14.08	8.74	8.27	6.06	4.17	3.07
06/24/2013	6.82	4.33	7,283	25.37	15.53	14.09	7.90	7.40	6.05	3.94	3.04
06/25/2013	6.56	4.29	7,411	24.94	10.20	13.81	7.45	6.93	6.11	3.65	3.07
06/26/2013	6.28	4.23	7,529	23.80	9.40	13.46	7.17	6.65	6.15	3.66	3.10
06/27/2013	5.92	4.09	7,111	22.50	12.92	13.45	6.73	6.20	6.22	3.16	3.15
06/28/2013	5.65	4.02	7,809	21.22	13.44	13.57	6.08	5.54	6.32	2.82	3.19
06/29/2013	5.83	4.00	8,744	20.94	13.38	13.57	6.09	5.55	6.33	2.67	3.18
06/30/2013	6.06	4.10	9,216	21.47	13.43	13.57	6.25	5.71	6.34	2.83	3.19
07/01/2013	6.11	4.10	6,885	21.12	12.69	13.56	6.30	5.76	6.36	2.81	3.21
07/02/2013	6.48	4.39	5,944	22.98	14.52	13.61	7.29	6.77	6.42	3.43	3.26
07/03/2013	6.41	4.47	5,225	24.56	14.67	13.67	8.10	7.60	6.55	4.10	3.35
07/04/2013	6.51	4.59	4,886	25.63	16.08	13.83	8.74	8.27	6.72	4.52	3.49
07/05/2013	6.65	4.67	5,303	27.09	18.01	14.06	9.65	9.23	6.93	4.73	3.59
07/06/2013	6.80	4.77	4,901	26.51	18.28	14.25	9.72	9.30	7.08	5.42	3.71
07/07/2013	6.78	4.73	5,285	26.44	17.49	14.29	10.06	9.66	7.18	5.72	3.82
07/08/2013	6.70	4.61	4,134	26.14	16.49	14.36	9.88	9.47	7.33	5.46	3.93
07/09/2013	6.39	4.35	5,204	24.47	15.62	14.74	8.90	8.44	7.44	4.67	4.00
07/10/2013	6.20	4.44	5,217	25.61	16.17	15.23	9.26	8.82	7.59	4.99	4.09
07/11/2013	6.12	4.43	5,226	26.21	16.10	15.45	9.30	8.85	7.78	5.18	4.24
07/12/2013	5.87	4.36	5,079	25.71	15.33	15.59	8.99	8.54	8.00	4.91	4.39
07/13/2013	5.56	4.24	5,014	24.84	14.42	15.66	8.31	7.82	8.16	4.48	4.52
07/14/2013	5.79	4.25	5,090	25.16	15.03	15.78	8.70	8.23	8.34	4.60	4.64
07/15/2013	6.11	4.33	4,884	26.04	15.65	15.99	9.18	8.74	8.55	4.94	4.80

Antioch Tides measured in feet above mean sea level.

Net Delta Outflow Index calculated from equation as specified in D-1641, revised June 1995.

Chippis Island EC calculated from measurements recorded at Mallard Slough.

Electrical Conductivity (EC) units: milliSiemens per Centimeter

md: mean daily

14dm: fourteen day running mean

NR: No Record

NC: Average not computed due to insufficient data

BR: Below Rating

e - estimated value

Delta Water Quality Conditions

Date	Antioch		Jersey Point		Emmaton		Cache Slough	Good Year Slough	Sunrise Club	Volanti Slough	Beldon Landing	Collinsville
	mdEC	14mdEC	mdEC	14mdEC	mdEC	14mdEC	mdEC	mhtEC	mhtEC	mhtEC	mhtEC	mhtEC
06/16/2013	1.13	1.52	0.36	0.40	0.28	0.52	0.36	12.24	8.51	8.99	8.52	3.97
06/17/2013	1.08	1.51	0.34	0.40	0.29	0.51	0.38	12.82	8.43	9.73	8.20	3.55
06/18/2013	1.19	1.48	0.35	0.40	0.33	0.50	0.36	12.56	9.86	9.86	8.46	4.18
06/19/2013	1.27	1.46	0.35	0.40	0.36	0.48	0.37	12.33	9.59	9.62	8.45	3.44
06/20/2013	1.23	1.44	0.34	0.39	0.36	0.47	0.32	11.76	9.47	10.21	8.75	3.79
06/21/2013	1.47	1.43	0.37	0.39	0.49	0.47	0.28	11.58	9.60	10.00	9.35	4.15
06/22/2013	1.67	1.42	0.40	0.39	0.57	0.47	0.25	11.43	9.80	10.03	9.55	4.76
06/23/2013	2.03	1.40	0.42	0.37	0.74	0.43	0.28	11.38	10.01	10.00	10.25	5.61
06/24/2013	1.88	1.40	0.40	0.37	0.64	0.42	0.30	11.59	9.95	10.18	10.32	5.36
06/25/2013	1.75	1.42	0.39	0.37	0.54	0.42	0.27	11.76	9.77	9.90	10.69	5.41
06/26/2013	1.63	1.43	0.38	0.37	0.50	0.43	0.27	11.85	9.62	10.59	11.01	4.65
06/27/2013	1.47	1.44	0.37	0.37	0.40	0.44	0.28	12.06	9.45	11.06	10.77	3.87
06/28/2013	1.30	1.45	0.36	0.37	0.34	0.44	0.28	12.10	9.35	10.66	10.40	3.79
06/29/2013	1.28	1.46	0.36	0.37	0.29	0.44	0.29	11.93	9.43	10.52	10.31	3.72
06/30/2013	1.33	1.47	0.38	0.37	0.26	0.44	0.33	11.72	9.58	10.20	10.45	4.24
07/01/2013	1.36	1.49	0.39	0.37	0.27	0.43	0.38	11.48	9.49	10.45	10.46	3.75
07/02/2013	1.58	1.52	0.45	0.38	0.26	0.43	0.43	11.32	9.49	11.26	10.37	4.94
07/03/2013	1.89	1.56	0.54	0.39	0.38	0.43	0.43	11.24	9.63	11.11	10.18	4.65
07/04/2013	2.19	1.63	0.60	0.41	0.43	0.44	0.36	11.26	9.80	11.69	10.37	5.55
07/05/2013	2.56	1.71	0.67	0.43	0.60	0.44	0.32	11.33	11.02	11.55	10.48	5.68
07/06/2013	2.65	1.78	0.72	0.46	0.66	0.45	0.29	11.50	12.21	12.21	10.44	6.58
07/07/2013	2.82	1.83	0.77	0.48	0.69	0.45	0.31	11.73	11.76	11.56	10.43	6.77
07/08/2013	2.75	1.90	0.79	0.51	0.65	0.45	0.33	11.96	11.05	12.13	10.94	6.27
07/09/2013	2.61	1.96	0.76	0.54	0.54	0.45	0.33	12.16	10.58	11.34	10.73	5.71
07/10/2013	2.64	2.03	0.82	0.57	0.56	0.45	0.34	12.29	10.37	11.32	11.05	6.14
07/11/2013	2.64	2.11	0.86	0.60	0.55	0.46	0.39	12.38	10.21	11.74	10.90	6.15
07/12/2013	2.53	2.20	0.86	0.64	0.45	0.47	0.44	12.45	10.12	11.69	11.05	6.32
07/13/2013	2.40	2.28	0.86	0.68	0.40	0.48	0.43	12.57	10.01	11.54	10.70	5.42
07/14/2013	2.44	2.36	0.89	0.71	0.39	0.49	0.41	12.66	10.05	11.57	10.69	5.94
07/15/2013	2.52	2.44	0.93	0.75	0.45	0.50	0.41	12.74	10.10	11.81	10.79	6.58

Electrical Conductivity (EC) units: milliSiemens per Centimeter

Chloride (Cl) units: milligrams per liter

mht.: mean high tides

md.: mean daily

NR: No Record

NC: Average not computed due to insufficient data

BR: Below Rating

e: estimated value

Delta Water Quality Conditions

Date	Bethel Island mdEC	Farrar Park mdEC	Holland Tract mdEC	Bacon Island mdEC	Contra Costa mdEC	Clifton Court mdEC	Tracy Pumping Plant mdEC	Antioch mdCl	Bacon Island mdCl	Contra Costa mdCl	Delta Status
06/16/2013	0.32	0.37	0.30	0.30	0.32	0.38	0.45	291	40	41	s
06/17/2013	0.32	0.36	0.29	0.30	0.32	0.40	0.48	273	40	42	s
06/18/2013	0.32	0.35	0.29	0.30	0.31	0.39	0.47	308	39	42	s
06/19/2013	0.32	0.35	0.29	0.29	0.31	0.36	0.43	334	39	41	s
06/20/2013	0.32	0.36	0.29	0.29	0.31	0.34	0.42	322	38	42	s
06/21/2013	0.31	0.36	0.29	0.29	0.31	0.35	0.38	398	38	41	s
06/22/2013	0.31	0.36	0.29	0.29	0.31	0.35	0.36	463	38	41 e	s
06/23/2013	0.31	0.35	0.28	0.29	0.30	0.35	0.36	578	37	41 e	s
06/24/2013	0.31	0.35	0.28	0.29	0.30	0.35	0.36	528	37	39	s
06/25/2013	0.30	0.34	0.28	0.29	0.30	0.34	0.41	488	37	39	s
06/26/2013	0.30	0.34	0.28	0.29	0.30	0.33	0.38	450	36	41	s
06/27/2013	0.30	0.35	0.28	0.28	0.30	0.34	0.38	398	35	40	s
06/28/2013	0.30	0.34	0.27	0.28	0.30	0.33	0.41	344	34	39	s
06/29/2013	0.30	0.34	0.27	0.27	0.30	0.32	0.41	337	33	39 e	s
06/30/2013	0.30	0.34	0.27	0.27	0.30	0.31	0.41	355	33	39 e	s
07/01/2013	0.30	0.35	0.26	0.27	0.30	0.31	0.39	363	31	38	s
07/02/2013	0.30	0.35	0.26	0.26	0.30	0.30	0.32	434	30	38	s
07/03/2013	0.31	0.36	0.27	0.26	0.29	0.29	0.30	533	30	37	s
07/04/2013	0.33	0.37	0.29	0.26	0.29	0.28	0.30	626	30	33 e	s
07/05/2013	0.35	0.38	0.29	0.27	0.29	0.27	0.30	745	31	37	s
07/06/2013	0.37	0.40	0.31	0.27	0.28	0.27	0.30	773	32	37 e	s
07/07/2013	0.38	0.42	0.33	0.28	0.28	0.27	0.30	828	35	37 e	s
07/08/2013	0.40	0.45	0.36	0.30	0.28	0.27	0.30	806	41	35	s
07/09/2013	0.42	0.47	0.39	0.33	0.28	0.27	0.31	763	48	36	s
07/10/2013	0.44	0.50	0.39	0.35	0.29	0.28	0.29	771	53	37	s
07/11/2013	0.46	0.54	0.41	0.36	0.30	0.29	0.29	770	55	39	s
07/12/2013	0.48	0.55	0.42	0.38	0.31	0.30	0.29	737	60	43	s
07/13/2013	0.50	0.57	0.44	0.40	0.34	0.31	0.30	695	65	43 e	s
07/14/2013	0.53	0.61	0.46	0.41	0.36	0.31	0.30	706	69	43 e	s
07/15/2013	0.55	0.64	0.48	0.42	0.38	0.32	0.30	733	72	60	s

Electrical Conductivity (EC) units: millSiemens per Centimeter

Chloride (Cl) units: milligrams per liter

md : mean daily

NR : No Record

NC : Average not computed due to Insufficient data

BR : Below Rating

e : estimated value

Antioch and Bacon Island mdCl are calculated from the respective mdEC values.

Coordinated Operation Agreement Delta Status:

c = excess Delta conditions

b = balanced Delta cond. w/ no storage withdrawal

s = balanced Delta cond. w/ storage withdrawal

Excess Delta conditions with restrictions:

f = fish concerns

r = E/I ratio concerns

Delta Water Quality Conditions

South Delta Stations

Date	Vernalis		Brandt Bridge		Old River Near Tracy		Old River Near Middle River	
	md EC	30 day avg	md EC	30 day avg	md EC	30 day avg	md EC	30 day avg
06/16/2013	0.56	0.53	0.62	0.59	0.90	0.79	0.70	0.62
06/17/2013	0.56	0.54	0.62	0.60	0.89	0.81	0.69	0.62
06/18/2013	0.58	0.54	0.63	0.60	0.88	0.82	0.67	0.63
06/19/2013	0.58	0.54	0.62	0.61	0.89	0.83	0.64	0.63
06/20/2013	0.58	0.55	0.64	0.61	0.94	0.84	0.67	0.64
06/21/2013	0.57	0.55	0.64	0.61	1.02	0.85	0.66	0.64
06/22/2013	0.56	0.55	0.64	0.62	1.11	0.86	0.68	0.64
06/23/2013	0.53	0.55	0.65	0.62	1.11	0.88	0.69	0.64
06/24/2013	0.58	0.55	0.67	0.62	1.13	0.89	0.66	0.65
06/25/2013	0.63	0.55	0.69	0.63	1.18	0.90	0.60	0.65
06/26/2013	0.64	0.56	0.69	0.63	1.20	0.92	0.46	0.64
06/27/2013	0.59	0.56	0.68	0.63	1.21	0.93	0.42	0.64
06/28/2013	0.59	0.56	0.67	0.64	1.18	0.94	0.47	0.64
06/29/2013	0.58	0.56	0.68	0.64	1.09	0.95	0.53	0.63
06/30/2013	0.53	0.56	0.68	0.64	1.05	0.96	0.54	0.63
07/01/2013	0.53	0.56	0.66	0.64	0.92	0.96	0.62	0.63
07/02/2013	0.48	0.56	0.65	0.64	0.92	0.97	0.61	0.63
07/03/2013	0.49	0.56	0.58	0.64	0.93	0.97	0.67	0.63
07/04/2013	0.53	0.55	0.59	0.64	0.90	0.96	0.67	0.63
07/05/2013	0.49	0.55	0.63	0.64	0.89	0.96	0.65	0.63
07/06/2013	0.47	0.55	0.68	0.64	0.85	0.96	0.56	0.63
07/07/2013	0.47	0.55	0.71	0.64	0.84	0.96	0.64	0.63
07/08/2013	0.50	0.55	0.71	0.65	0.82	0.95	0.66	0.63
07/09/2013	0.52	0.55	0.71	0.65	0.78	0.95	0.64	0.62
07/10/2013	0.48	0.54	0.69	0.65	0.78	0.95	0.60	0.62
07/11/2013	0.49	0.54	0.68	0.66	0.79	0.95	0.62	0.62
07/12/2013	0.55	0.54	0.71	0.66	0.79	0.95	0.67	0.62
07/13/2013	0.46	0.54	0.73	0.66	0.79	0.95	0.69	0.63
07/14/2013	0.48	0.54	0.74	0.66	0.80	0.95	0.70	0.63
07/15/2013	0.50	0.54	0.73	0.67	0.81	0.95	0.70	0.63

Electrical Conductivity (EC) units: milliSiemens per Centimeter

md : mean daily

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e : estimated value

Compliance Standards

for the Sacramento - San Joaquin Delta and Suisun Marsh

Monday, July 22, 2013

Criteria	Standard	Status
Flow/Operational		
% of inflow diverted	65 %	46 %
NDOI, monthly average *	>= 5,000 cfs	5,196 cfs
NDOI, 7 day average*	>= 4,000 cfs	5,148 cfs

Water Quality

Days @ CCWD PP#1 w/ chlorides <= 150 mg/l	165 days	203 days
Export Areas for SWP, CVP, CCWD, et al	<= 250 mg/l Cl	96 mg/l
14dm EC at Emmaton	<= 1.67 mS/cm	0.64 mS/cm
14dm EC at Jersey Point	<= 1.35 mS/cm	0.95 mS/cm
Maximum 30 day running average of mean daily EC at:		
Vernalis	<=0.7 mS/cm	0.5 mS/cm
Brandt Bridge	<= 0.7 mS/cm	0.7 mS/cm
Old River Near Tracy	<=0.7 mS/cm	0.9 mS/cm
Old River Near Middle River	<=0.7 mS/cm	0.6 mS/cm

SUISUN MARSH:

Suisun Marsh Salinity Control Gates : 3 Open / 0 Closed / 0 Full Tide Open
Flashboard Status : Out
Boat Lock Status : Closed

California Hydrologic Conditions: (California Cooperative Snow Surveys Forecast, May 1, 2013)

Previous Month's Index (8RI for April.): 2.023 MAF

Water Year Type: Dry

Sacramento valley water year type index (40/30/30) @ 50%:5.8 MAF (Dry)

San Joaquin valley water year type index (60/20/20) @ 75%: 1.6 MAF (Critical)

Electrical Conductivity (EC) in milliSiemens per Centimeter.

Chlorides (Cl) in milligrams per liter

mht - mean high tides

md - mean daily

14 dm - fourteen day running mean

28 dm - twenty-eight day running mean

NR - No Record

NC - Average not computed due to insufficient data.

BR : Below Rating

e - estimated value

Montezuma Slough Gate Operation:

Number of gates operating at either

Open, Closed, or Full Tide Open

Flashboard Status : In, Out, or Modified In

Boat Lock Status : Open or Closed

Coordinated Operation Agreement Delta Status:

c = excess Delta conditions

b = balanced Delta cond. w/ no storage withdrawal

s = balanced Delta cond. w/ storage withdrawal

Excess Delta conditions with restrictions:

f = fish concerns

r = E/I ratio concerns

* NDOI, Rio Vista & Vernalis Flows:

- Monthly average is progressive daily mean.

- 7 day average is progressive daily mean for the first six days of the month.

Delta Water Quality Conditions

Date	Antioch Tides		Net Delta Outflow Index cfs	Martinez mdEC	Port Chicago		Mallard mdEC	Chippis Island		Collinsville	
	High	Half			mdEC	14dm		mdEC	14dm	mdEC	14dm
06/23/2013	6.82	4.41	8,129	25.63	16.97	14.08	8.74	8.27	6.06	4.17	3.07
06/24/2013	6.82	4.33	7,283	25.37	15.53	14.09	7.90	7.40	6.05	3.94	3.04
06/25/2013	6.56	4.29	7,411	24.94	10.20	13.81	7.45	6.93	6.11	3.65	3.07
06/26/2013	6.28	4.23	7,529	23.80	9.40	13.46	7.17	6.65	6.15	3.66	3.10
06/27/2013	5.92	4.09	7,111	22.50	12.92	13.45	6.73	6.20	6.22	3.16	3.15
06/28/2013	5.65	4.02	7,809	21.22	13.44	13.57	6.08	5.54	6.32	2.82	3.19
06/29/2013	5.83	4.00	8,744	20.94	13.38	13.57	6.09	5.55	6.33	2.67	3.18
06/30/2013	6.06	4.10	9,216	21.47	13.43	13.57	6.25	5.71	6.34	2.83	3.19
07/01/2013	6.11	4.10	6,885	21.12	12.69	13.56	6.30	5.76	6.36	2.81	3.21
07/02/2013	6.48	4.39	5,944	22.98	14.52	13.61	7.29	6.77	6.42	3.43	3.26
07/03/2013	6.41	4.47	5,225	24.56	14.67	13.67	8.10	7.60	6.55	4.10	3.35
07/04/2013	6.51	4.59	4,886	25.63	16.08	13.83	8.74	8.27	6.72	4.52	3.49
07/05/2013	6.65	4.67	5,303	27.09	18.01	14.06	9.65	9.23	6.93	4.73	3.59
07/06/2013	6.80	4.77	4,901	26.51	18.28	14.25	9.72	9.30	7.08	5.42	3.71
07/07/2013	6.78	4.73	5,285	26.44	17.49	14.29	10.06	9.66	7.18	5.72	3.82
07/08/2013	6.70	4.61	4,134	26.14	16.49	14.36	9.88	9.47	7.33	5.46	3.93
07/09/2013	6.39	4.35	5,204	24.47	15.62	14.74	8.90	8.44	7.44	4.67	4.00
07/10/2013	6.20	4.44	5,217	25.61	16.17	15.23	9.26	8.82	7.59	4.99	4.09
07/11/2013	6.12	4.43	5,226	26.21	16.10	15.45	9.30	8.85	7.78	5.18	4.24
07/12/2013	5.87	4.36	5,079	25.71	15.33	15.59	8.99	8.54	8.00	4.91	4.39
07/13/2013	5.56	4.24	5,014	24.84	14.42	15.66	8.31	7.82	8.16	4.48	4.52
07/14/2013	5.79	4.25	5,090	25.16	15.03	15.78	8.70	8.23	8.34	4.60	4.64
07/15/2013	6.11	4.33	4,884	26.04	15.65	15.99	9.18	8.74	8.55	4.94	4.80
07/16/2013	6.18	4.30	4,724	27.04	15.76	16.08	9.14	8.69	8.69	4.96	4.90
07/17/2013	6.28	4.13	5,300	25.12	14.96	16.10	8.23	7.74	8.70	4.34	4.92
07/18/2013	6.60	4.29	5,476	25.42	14.81	16.01	8.78	8.31	8.70	4.68	4.93
07/19/2013	6.77	4.47	5,365	25.83	16.76	15.92	9.47	9.03	8.69	5.29	4.97
07/20/2013	6.94	4.63	5,001	26.95	17.54	15.87	10.38	10.00	8.74	6.13	5.02
07/21/2013	7.21	4.83	4,974	28.62	17.39	15.86	11.37	11.05	8.84	7.02	5.12
07/22/2013	7.24	4.76	5,198	28.27	17.78	15.95	11.22	10.90	8.94	6.84	5.22

Antioch Tides measured in feet above mean sea level.

Net Delta Outflow Index calculated from equation as specified in D-1641, revised June 1995.

Chippis Island EC calculated from measurements recorded at Mallard Slough.

Electrical Conductivity (EC) units: milliSiemens per Centimeter

md : mean daily

14dm : fourteen day running mean

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e - estimated value

Delta Water Quality Conditions

Date	Antioch		Jersey Point		Emmaton		Cache Slough	Good Year Slough	Sunrise Club	Volanti Slough	Beldon Landing	Collinsville
	mdEC	14mdEC	mdEC	14mdEC	mdEC	14mdEC	mdEC	mhtEC	mhtEC	mhtEC	mhtEC	mhtEC
06/23/2013	2.03	1.40	0.42	0.37	0.74	0.43	0.28	11.38	10.01	10.00	10.25	5.61
06/24/2013	1.88	1.40	0.40	0.37	0.64	0.42	0.30	11.59	9.95	10.18	10.32	5.36
06/25/2013	1.75	1.42	0.39	0.37	0.54	0.42	0.27	11.76	9.77	9.90	10.69	5.41
06/26/2013	1.63	1.43	0.38	0.37	0.50	0.43	0.27	11.85	9.62	10.59	11.01	4.65
06/27/2013	1.47	1.44	0.37	0.37	0.40	0.44	0.28	12.06	9.45	11.06	10.77	3.87
06/28/2013	1.30	1.45	0.36	0.37	0.34	0.44	0.28	12.10	9.35	10.66	10.40	3.79
06/29/2013	1.28	1.46	0.36	0.37	0.29	0.44	0.29	11.93	9.43	10.52	10.31	3.72
06/30/2013	1.33	1.47	0.38	0.37	0.26	0.44	0.33	11.72	9.58	10.20	10.45	4.24
07/01/2013	1.36	1.49	0.39	0.37	0.27	0.43	0.38	11.48	9.49	10.45	10.46	3.75
07/02/2013	1.58	1.52	0.45	0.38	0.26	0.43	0.43	11.32	9.49	11.26	10.37	4.94
07/03/2013	1.89	1.56	0.54	0.39	0.38	0.43	0.43	11.24	9.63	11.11	10.18	4.65
07/04/2013	2.19	1.63	0.60	0.41	0.43	0.44	0.36	11.26	9.80	11.69	10.37	5.55
07/05/2013	2.56	1.71	0.67	0.43	0.60	0.44	0.32	11.33	11.02	11.55	10.48	5.68
07/06/2013	2.65	1.78	0.72	0.46	0.66	0.45	0.29	11.50	12.21	12.21	10.44	6.58
07/07/2013	2.82	1.83	0.77	0.48	0.69	0.45	0.31	11.73	11.76	11.56	10.43	6.77
07/08/2013	2.75	1.90	0.79	0.51	0.65	0.45	0.33	11.96	11.05	12.13	10.94	6.27
07/09/2013	2.61	1.96	0.76	0.54	0.54	0.45	0.33	12.16	10.58	11.34	10.73	5.71
07/10/2013	2.64	2.03	0.82	0.57	0.56	0.45	0.34	12.29	10.37	11.32	11.05	6.14
07/11/2013	2.64	2.11	0.86	0.60	0.55	0.46	0.39	12.38	10.21	11.74	10.90	6.15
07/12/2013	2.53	2.20	0.86	0.64	0.45	0.47	0.44	12.45	10.12	11.69	11.05	6.32
07/13/2013	2.40	2.28	0.86	0.68	0.40	0.48	0.43	12.57	10.01	11.54	10.70	5.42
07/14/2013	2.44	2.36	0.89	0.71	0.39	0.49	0.41	12.66	10.05	11.57	10.69	5.94
07/15/2013	2.52	2.44	0.93	0.75	0.45	0.50	0.41	12.74	10.10	11.81	10.79	6.58
07/16/2013	2.50	2.51	0.93	0.79	0.45	0.51	0.41	14.06	10.10	11.56	11.17	6.14
07/17/2013	2.40	2.55	0.90	0.81	0.44	0.52	0.43	15.17	9.99	11.52	11.08	5.75
07/18/2013	2.46	2.57	0.93	0.84	0.54	0.53	0.37	15.12	10.04	12.26	11.33	6.40
07/19/2013	2.79	2.58	1.02	0.86	0.72	0.54	0.32	14.77	10.22	12.45	11.91	6.26
07/20/2013	3.22	2.62	1.12	0.89	0.98	0.56	0.27	14.56	10.36	12.56	11.87	7.45
07/21/2013	3.61	2.68	1.24	0.92	1.22	0.60	0.25	14.93	10.52	12.46	11.91	8.34
07/22/2013	3.71	2.75	1.25	0.95	1.24	0.64	0.28	15.39	10.73	12.28	12.00	8.49

Electrical Conductivity (EC) units: milliSiemens per Centimeter

Chloride (Cl) units: milligrams per liter

mht : mean high tides

md : mean daily

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e : estimated value

Delta Water Quality Conditions

Date	Bethel Island mdEC	Farrar Park mdEC	Holland Tract mdEC	Bacon Island mdEC	Contra Costa mdEC	Clifton Court mdEC	Tracy Pumping Plant mdEC	Antioch mdCI	Bacon Island mdCI	Contra Costa mdCI	Delta Status
06/23/2013	0.31	0.35	0.28	0.29	0.30	0.35	0.36	578	37	41 e	s
06/24/2013	0.31	0.35	0.28	0.29	0.30	0.35	0.36	528	37	39	s
06/25/2013	0.30	0.34	0.28	0.29	0.30	0.34	0.41	488	37	39	s
06/26/2013	0.30	0.34	0.28	0.29	0.30	0.33	0.38	450	36	41	s
06/27/2013	0.30	0.35	0.28	0.28	0.30	0.34	0.38	398	35	40	s
06/28/2013	0.30	0.34	0.27	0.28	0.30	0.33	0.41	344	34	39	s
06/29/2013	0.30	0.34	0.27	0.27	0.30	0.32	0.41	337	33	39 e	s
06/30/2013	0.30	0.34	0.27	0.27	0.30	0.31	0.41	355	33	39 e	s
07/01/2013	0.30	0.35	0.26	0.27	0.30	0.31	0.39	363	31	38	s
07/02/2013	0.30	0.35	0.26	0.26	0.30	0.30	0.32	434	30	38	s
07/03/2013	0.31	0.36	0.27	0.26	0.29	0.29	0.30	533	30	37	s
07/04/2013	0.33	0.37	0.29	0.26	0.29	0.28	0.30	626	30	33 e	s
07/05/2013	0.35	0.38	0.29	0.27	0.29	0.27	0.30	745	31	37	s
07/06/2013	0.37	0.40	0.31	0.27	0.28	0.27	0.30	773	32	37 e	s
07/07/2013	0.38	0.42	0.33	0.28	0.28	0.27	0.30	828	35	37 e	s
07/08/2013	0.40	0.45	0.36	0.30	0.28	0.27	0.30	806	41	35	s
07/09/2013	0.42	0.47	0.39	0.33	0.28	0.27	0.31	763	48	36	s
07/10/2013	0.44	0.50	0.39	0.35	0.29	0.28	0.29	771	53	37	s
07/11/2013	0.46	0.54	0.41	0.36	0.30	0.29	0.29	770	55	39	s
07/12/2013	0.48	0.55	0.42	0.38	0.31	0.30	0.29	737	60	43	s
07/13/2013	0.50	0.57	0.44	0.40	0.34	0.31	0.30	695	65	43 e	s
07/14/2013	0.53	0.61	0.46	0.41	0.36	0.31	0.30	706	69	43 e	s
07/15/2013	0.55	0.64	0.48	0.42	0.36	0.32	0.30	733	72	60	s
07/16/2013	0.56	0.66	0.51	0.44	0.39	0.32	0.30	727	77	65	s
07/17/2013	0.59	0.66	0.53	0.47	0.40	0.32	0.31	696	84	69	s
07/18/2013	0.61	0.68	0.56	0.49	0.42	0.33	0.32	714	90	74	s
07/19/2013	0.64	0.72	0.57	0.51	0.43	0.36	0.32	818	95	76	s
07/20/2013	0.67	0.75	0.58	0.51	0.46	0.38	0.34	957	95	76 e	s
07/21/2013	0.72	0.78	0.60	0.52	0.48	0.38	0.34	1,080	97	76 e	s
07/22/2013	0.75	0.79	0.62	0.53	0.51	0.37	0.35	1,112	100	96	s

Electrical Conductivity (EC) units: millSiemens per Centimeter

Chloride (CI) units: milligrams per liter

md : mean daily

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e : estimated value

Antioch and Bacon Island mdCI are calculated from the respective mdEC values.

Coordinated Operation Agreement Delta Status:

c = excess Delta conditions

b = balanced Delta cond. w/ no storage withdrawal

s = balanced Delta cond. w/ storage withdrawal

Excess Delta conditions with restrictions:

f = fish concerns

r = E/I ratio concerns

Delta Water Quality Conditions

South Delta Stations

Date	Vernalis		Brandt Bridge		Old River Near Tracy		Old River Near Middle River	
	md EC	30 day avg	md EC	30 day avg	md EC	30 day avg	md EC	30 day avg
06/23/2013	0.53	0.55	0.65	0.62	1.11	0.88	0.69	0.64
06/24/2013	0.58	0.55	0.67	0.62	1.13	0.89	0.66	0.65
06/25/2013	0.63	0.55	0.69	0.63	1.18	0.90	0.60	0.65
06/26/2013	0.64	0.56	0.69	0.63	1.20	0.92	0.46	0.64
06/27/2013	0.59	0.56	0.68	0.63	1.21	0.93	0.42	0.64
06/28/2013	0.59	0.56	0.67	0.64	1.18	0.94	0.47	0.64
06/29/2013	0.58	0.56	0.68	0.64	1.09	0.95	0.53	0.63
06/30/2013	0.53	0.56	0.68	0.64	1.05	0.96	0.54	0.63
07/01/2013	0.53	0.56	0.66	0.64	0.92	0.96	0.62	0.63
07/02/2013	0.48	0.56	0.65	0.64	0.92	0.97	0.61	0.63
07/03/2013	0.49	0.56	0.58	0.64	0.93	0.97	0.67	0.63
07/04/2013	0.53	0.55	0.59	0.64	0.90	0.96	0.67	0.63
07/05/2013	0.49	0.55	0.63	0.64	0.89	0.96	0.65	0.63
07/06/2013	0.47	0.55	0.68	0.64	0.85	0.96	0.56	0.63
07/07/2013	0.47	0.55	0.71	0.64	0.84	0.96	0.64	0.63
07/08/2013	0.50	0.55	0.71	0.65	0.82	0.95	0.66	0.63
07/09/2013	0.52	0.55	0.71	0.65	0.78	0.95	0.64	0.62
07/10/2013	0.48	0.54	0.69	0.65	0.78	0.95	0.60	0.62
07/11/2013	0.49	0.54	0.68	0.66	0.79	0.95	0.62	0.62
07/12/2013	0.55	0.54	0.71	0.66	0.79	0.95	0.67	0.62
07/13/2013	0.46	0.54	0.73	0.66	0.79	0.95	0.69	0.63
07/14/2013	0.48	0.54	0.74	0.66	0.80	0.95	0.70	0.63
07/15/2013	0.50	0.54	0.73	0.67	0.81	0.95	0.70	0.63
07/16/2013	0.53	0.54	0.72	0.67	0.81	0.94	0.68	0.63
07/17/2013	0.49	0.53	0.70	0.67	0.82	0.94	0.65	0.62
07/18/2013	0.51	0.53	0.68	0.68	0.85	0.94	0.68	0.62
07/19/2013	0.54	0.53	0.68	0.68	0.86	0.94	0.66	0.62
07/20/2013	0.52	0.53	0.75	0.68	0.86	0.94	0.69	0.63
07/21/2013	0.53	0.53	0.81	0.69	0.85	0.93	0.68	0.63
07/22/2013	0.51	0.52	0.82	0.69	0.88	0.92	0.69	0.63

Electrical Conductivity (EC) units: milliSiemens per Centimeter

md : mean daily

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e : estimated value

Compliance Standards

for the Sacramento - San Joaquin Delta and Suisun Marsh

Monday, July 29, 2013

Criteria	Standard	Status
Flow/Operational		
% of inflow diverted	65 %	44 %
NDOI, monthly average *	>= 5,000 cfs	5,271 cfs
NDOI, 7 day average*	>= 4,000 cfs	5,504 cfs

Water Quality

Days @ CCWD PP#1 w/ chlorides <= 150 mg/l	165 days	210 days
Export Areas for SWP, CVP, CCWD, et al	<= 250 mg/l Cl	120 mg/l
14dm EC at Emmaton	<= 1.67 mS/cm	0.78 mS/cm
14dm EC at Jersey Point	<= 1.35 mS/cm	1.11 mS/cm
Maximum 30 day running average of mean daily EC at:		
Vernalis	<=0.7 mS/cm	0.5 mS/cm
Brandt Bridge	<= 0.7 mS/cm	0.7 mS/cm
Old River Near Tracy	<=0.7 mS/cm	0.9 mS/cm
Old River Near Middle River	<=0.7 mS/cm	0.7 mS/cm

SUISUN MARSH:

Suisun Marsh Salinity Control Gates : 3 Open / 0 Closed / 0 Full Tide Open
Flashboard Status : Out
Boat Lock Status : Closed

California Hydrologic Conditions: (California Cooperative Snow Surveys Forecast, May 1, 2013)

Previous Month's Index (8RI for April.): 2.023 MAF

Water Year Type: Dry

Sacramento valley water year type index (40/30/30) @ 50%:5.8 MAF (Dry)

San Joaquin valley water year type index (60/20/20) @ 75%: 1.6 MAF (Critical)

Electrical Conductivity (EC) in milliSiemens per Centimeter.

Chlorides (Cl) in milligrams per liter

mht - mean high tides

md - mean daily

14 dm - fourteen day running mean

28 dm - twenty-eight day running mean

NR - No Record

NC - Average not computed due to insufficient data.

BR : Below Rating

e - estimated value

Montezuma Slough Gate Operation:

Number of gates operating at either

Open, Closed, or Full Tide Open

Flashboard Status : In, Out, or Modified In

Boat Lock Status : Open or Closed

Coordinated Operation Agreement Delta Status:

c = excess Delta conditions

b = balanced Delta cond. w/ no storage withdrawal

s = balanced Delta cond. w/ storage withdrawal

Excess Delta conditions with restrictions:

f = fish concerns

r = E/I ratio concerns

* NDOI, Rio Vista & Vernalis Flows:

- Monthly average is progressive daily mean.

- 7 day average is progressive daily mean for the first six days of the month.

Delta Water Quality Conditions

Date	Antioch Tides		Net Delta Outflow Index cfs	Martinez mdEC	Port Chicago		Mallard mdEC	Chippis Island		Collinsville	
	High	Half			mdEC	14dm		mdEC	14dm	mdEC	14dm
06/30/2013	6.06	4.10	9,216	21.47	13.43	13.57	6.25	5.71	6.34	2.83	3.19
07/01/2013	6.11	4.10	6,885	21.12	12.69	13.56	6.30	5.76	6.36	2.81	3.21
07/02/2013	6.48	4.39	5,944	22.98	14.52	13.61	7.29	6.77	6.42	3.43	3.26
07/03/2013	6.41	4.47	5,225	24.56	14.67	13.67	8.10	7.60	6.55	4.10	3.35
07/04/2013	6.51	4.59	4,886	25.63	16.08	13.83	8.74	8.27	6.72	4.52	3.49
07/05/2013	6.65	4.67	5,303	27.09	18.01	14.06	9.65	9.23	6.93	4.73	3.59
07/06/2013	6.80	4.77	4,901	26.51	18.28	14.25	9.72	9.30	7.08	5.42	3.71
07/07/2013	6.78	4.73	5,285	26.44	17.49	14.29	10.06	9.66	7.18	5.72	3.82
07/08/2013	6.70	4.61	4,134	26.14	16.49	14.36	9.88	9.47	7.33	5.46	3.93
07/09/2013	6.39	4.35	5,204	24.47	15.62	14.74	8.90	8.44	7.44	4.67	4.00
07/10/2013	6.20	4.44	5,217	25.61	16.17	15.23	9.26	8.82	7.59	4.99	4.09
07/11/2013	6.12	4.43	5,226	26.21	16.10	15.45	9.30	8.85	7.78	5.18	4.24
07/12/2013	5.87	4.36	5,079	25.71	15.33	15.59	8.99	8.54	8.00	4.91	4.39
07/13/2013	5.56	4.24	5,014	24.84	14.42	15.66	8.31	7.82	8.16	4.48	4.52
07/14/2013	5.79	4.25	5,090	25.16	15.03	15.78	8.70	8.23	8.34	4.60	4.64
07/15/2013	6.11	4.33	4,884	26.04	15.65	15.99	9.18	8.74	8.55	4.94	4.80
07/16/2013	6.18	4.30	4,724	27.04	15.76	16.08	9.14	8.69	8.69	4.96	4.90
07/17/2013	6.28	4.13	5,300	25.12	14.98	16.10	8.23	7.74	8.70	4.34	4.92
07/18/2013	6.60	4.29	5,476	25.42	14.81	16.01	8.78	8.31	8.70	4.68	4.93
07/19/2013	6.77	4.47	5,365	25.83	16.76	15.92	9.47	9.03	8.69	5.29	4.97
07/20/2013	6.94	4.63	5,001	26.95	17.54	15.87	10.38	10.00	8.74	6.13	5.02
07/21/2013	7.21	4.83	4,974	28.62	17.39	15.86	11.37	11.05	8.84	7.02	5.12
07/22/2013	7.24	4.76	5,198	28.27	17.78	15.95	11.22	10.90	8.94	6.84	5.22
07/23/2013	6.89	4.47	5,352	27.81	17.11	16.06	10.44	10.07	9.06	6.09	5.32
07/24/2013	6.52	4.42	4,989	27.22	14.75	15.96	10.18	9.79	9.13	5.98	5.39
07/25/2013	6.32	4.50	5,130	27.04	14.18	15.82	10.46	10.08	9.21	6.08	5.45
07/26/2013	5.96	4.42	5,780	26.61	13.49	15.69	10.29	9.90	9.31	5.95	5.53
07/27/2013	6.01	4.37	6,288	26.62	14.11	15.66	9.95	9.54	9.43	5.81	5.62
07/28/2013	6.27	4.46	6,029	27.17	14.02	15.59	9.85	9.43	9.52	5.88	5.71
07/29/2013	6.34	4.52	4,962	27.56	13.56	15.44	10.05	9.65	9.59	5.95	5.79

Antioch Tides measured in feet above mean sea level.

Net Delta Outflow Index calculated from equation as specified in D-1641, revised June 1995.

Chippis Island EC calculated from measurements recorded at Mallard Slough.

Electrical Conductivity (EC) units: milliSiemens per Centimeter

md : mean daily

14dm : fourteen day running mean

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e - estimated value

Delta Water Quality Conditions

Date	Antioch		Jersey Point		Emmaton		Cache Slough	Good Year Slough	Sunrise Club	Volanti Slough	Beldon Landing	Collinsville
	mdEC	14mdEC	mdEC	14mdEC	mdEC	14mdEC	mdEC	mhtEC	mhtEC	mhtEC	mhtEC	mhtEC
06/30/2013	1.33	1.47	0.38	0.37	0.26	0.44	0.33	11.72	9.58	10.20	10.45	4.24
07/01/2013	1.36	1.49	0.39	0.37	0.27	0.43	0.38	11.48	9.49	10.45	10.46	3.75
07/02/2013	1.58	1.52	0.45	0.38	0.26	0.43	0.43	11.32	9.49	11.26	10.37	4.94
07/03/2013	1.89	1.56	0.54	0.39	0.38	0.43	0.43	11.24	9.63	11.11	10.18	4.65
07/04/2013	2.19	1.63	0.60	0.41	0.43	0.44	0.36	11.26	9.80	11.69	10.37	5.55
07/05/2013	2.56	1.71	0.67	0.43	0.60	0.44	0.32	11.33	11.02	11.55	10.48	5.68
07/06/2013	2.65	1.78	0.72	0.46	0.66	0.45	0.29	11.50	12.21	12.21	10.44	6.58
07/07/2013	2.82	1.83	0.77	0.48	0.69	0.45	0.31	11.73	11.76	11.56	10.43	6.77
07/08/2013	2.75	1.90	0.79	0.51	0.65	0.45	0.33	11.96	11.05	12.13	10.94	6.27
07/09/2013	2.61	1.96	0.76	0.54	0.54	0.45	0.33	12.16	10.58	11.34	10.73	5.71
07/10/2013	2.64	2.03	0.82	0.57	0.56	0.45	0.34	12.29	10.37	11.32	11.05	6.14
07/11/2013	2.64	2.11	0.86	0.60	0.55	0.46	0.39	12.38	10.21	11.74	10.90	6.15
07/12/2013	2.53	2.20	0.86	0.64	0.45	0.47	0.44	12.45	10.12	11.69	11.05	6.32
07/13/2013	2.40	2.28	0.86	0.68	0.40	0.48	0.43	12.57	10.01	11.54	10.70	5.42
07/14/2013	2.44	2.36	0.89	0.71	0.39	0.49	0.41	12.66	10.05	11.57	10.69	5.94
07/15/2013	2.52	2.44	0.93	0.75	0.45	0.50	0.41	12.74	10.10	11.81	10.79	6.58
07/16/2013	2.50	2.51	0.93	0.79	0.45	0.51	0.41	14.06	10.10	11.56	11.17	6.14
07/17/2013	2.40	2.55	0.90	0.81	0.44	0.52	0.43	15.17	9.99	11.52	11.08	5.75
07/18/2013	2.46	2.57	0.93	0.84	0.54	0.53	0.37	15.12	10.04	12.26	11.33	6.40
07/19/2013	2.79	2.58	1.02	0.86	0.72	0.54	0.32	14.77	10.22	12.45	11.91	6.26
07/20/2013	3.22	2.62	1.12	0.89	0.98	0.56	0.27	14.56	10.36	12.56	11.87	7.45
07/21/2013	3.61	2.68	1.24	0.92	1.22	0.60	0.25	14.93	10.52	12.48	11.91	8.34
07/22/2013	3.71	2.75	1.25	0.95	1.24	0.64	0.28	15.39	10.73	12.28	12.00	8.49
07/23/2013	3.34	2.80	1.08	0.98	0.91	0.66	0.33	15.27	10.91	12.11	12.22	7.61
07/24/2013	3.19	2.84	1.15	1.00	0.86	0.69	0.31	15.72	11.19	12.30	12.93	6.83
07/25/2013	3.21	2.88	1.19	1.02	0.89	0.71	0.32	15.46	11.68	13.44	13.27	7.43
07/26/2013	3.12	2.92	1.20	1.05	0.76	0.73	0.32	15.13	11.38	12.79	12.69	7.47
07/27/2013	2.99	2.96	1.18	1.07	0.65	0.75	0.36	15.06	11.17	12.49	12.64	6.90
07/28/2013	2.99	3.00	1.17	1.09	0.60	0.77	0.37	15.25	11.26	12.76	12.41	7.23
07/29/2013	3.11	3.05	1.20	1.11	0.59	0.78	0.45	15.49	11.45	12.49	12.25	7.22

Electrical Conductivity (EC) units: milliSiemens per Centimeter

Chloride (Cl) units: milligrams per liter

mht : mean high tides

md : mean daily

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e : estimated value

Delta Water Quality Conditions

Date	Bethel Island mdEC	Farrar Park mdEC	Holland Tract mdEC	Bacon Island mdEC	Contra Costa mdEC	Clifton Court mdEC	Tracy Pumping Plant mdEC	Antioch mdCI	Bacon Island mdCI	Contra Costa mdCI	Delta Status
06/30/2013	0.30	0.34	0.27	0.27	0.30	0.31	0.41	355	33	39	s
07/01/2013	0.30	0.35	0.26	0.27	0.30	0.31	0.39	363	31	38	s
07/02/2013	0.30	0.35	0.26	0.26	0.30	0.30	0.32	434	30	38	s
07/03/2013	0.31	0.36	0.27	0.26	0.29	0.29	0.30	533	30	37	s
07/04/2013	0.33	0.37	0.29	0.26	0.29	0.28	0.30	626	30	33 e	s
07/05/2013	0.35	0.38	0.29	0.27	0.29	0.27	0.30	745	31	37	s
07/06/2013	0.37	0.40	0.31	0.27	0.28	0.27	0.30	773	32	37 e	s
07/07/2013	0.38	0.42	0.33	0.28	0.28	0.27	0.30	828	35	37 e	s
07/08/2013	0.40	0.45	0.36	0.30	0.28	0.27	0.30	806	41	35	s
07/09/2013	0.42	0.47	0.39	0.33	0.28	0.27	0.31	763	48	36	s
07/10/2013	0.44	0.50	0.39	0.35	0.29	0.28	0.29	771	53	37	s
07/11/2013	0.46	0.54	0.41	0.36	0.30	0.29	0.29	770	55	39	s
07/12/2013	0.48	0.55	0.42	0.38	0.31	0.30	0.29	737	60	43	s
07/13/2013	0.50	0.57	0.44	0.40	0.34	0.31	0.30	695	65	43 e	s
07/14/2013	0.53	0.61	0.46	0.41	0.36	0.31	0.30	706	69	43 e	s
07/15/2013	0.55	0.64	0.48	0.42	0.38	0.32	0.30	733	72	60	s
07/16/2013	0.56	0.66	0.51	0.44	0.39	0.32	0.30	727	77	65	s
07/17/2013	0.59	0.66	0.53	0.47	0.40	0.32	0.31	696	84	69	s
07/18/2013	0.61	0.68	0.56	0.49	0.42	0.33	0.32	714	90	74	s
07/19/2013	0.64	0.72	0.57	0.51	0.43	0.36	0.32	818	95	76	s
07/20/2013	0.67	0.75	0.58	0.51	0.46	0.38	0.34	957	95	76 e	s
07/21/2013	0.72	0.78	0.60	0.52	0.48	0.38	0.34	1,080	97	76 e	s
07/22/2013	0.75	0.79	0.62	0.53	0.51	0.37	0.35	1,112	100	96	s
07/23/2013	0.76	0.81	0.64	0.55	0.53	0.39	0.37	992	106	100	s
07/24/2013	0.77	0.82	0.65	0.57	0.55	0.40	0.36	945	112	108	s
07/25/2013	0.79	0.83	0.66	0.59	0.56	0.41	0.37	952	115	116	s
07/26/2013	0.81	0.84	0.68	0.60	0.56	0.41	0.37	922	119	113	s
07/27/2013	0.82	0.84	0.69	0.62	0.58	0.41	0.39	882	123	113 e	s
07/28/2013	0.84	0.83	0.73	0.65	0.59	0.41	0.40	881	131	113 e	s
07/29/2013	0.85	0.82	0.75	0.68	0.59	0.42	0.42	922	139	120	s

Electrical Conductivity (EC) units: milliSiemens per Centimeter

Chloride (Cl) units: milligrams per liter

md : mean daily

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e : estimated value

Antioch and Bacon Island mdCI are calculated from the respective mdEC values.

Coordinated Operation Agreement Delta Status:

c = excess Delta conditions

b = balanced Delta cond. w/ no storage withdrawal

s = balanced Delta cond. w/ storage withdrawal

Excess Delta conditions with restrictions:

f = fish concerns

r = E/I ratio concerns

Delta Water Quality Conditions

South Delta Stations

Date	Vernalis		Brandt Bridge		Old River Near Tracy		Old River Near Middle River	
	md EC	30 day avg	md EC	30 day avg	md EC	30 day avg	md EC	30 day avg
06/30/2013	0.53	0.56	0.68	0.64	1.05	0.96	0.54	0.63
07/01/2013	0.53	0.56	0.66	0.64	0.92	0.96	0.62	0.63
07/02/2013	0.48	0.56	0.65	0.64	0.92	0.97	0.61	0.63
07/03/2013	0.49	0.56	0.58	0.64	0.93	0.97	0.67	0.63
07/04/2013	0.53	0.55	0.59	0.64	0.90	0.96	0.67	0.63
07/05/2013	0.49	0.55	0.63	0.64	0.89	0.96	0.65	0.63
07/06/2013	0.47	0.55	0.68	0.64	0.85	0.96	0.56	0.63
07/07/2013	0.47	0.55	0.71	0.64	0.84	0.96	0.64	0.63
07/08/2013	0.50	0.55	0.71	0.65	0.82	0.95	0.66	0.63
07/09/2013	0.52	0.55	0.71	0.65	0.78	0.95	0.64	0.62
07/10/2013	0.48	0.54	0.69	0.65	0.78	0.95	0.60	0.62
07/11/2013	0.49	0.54	0.68	0.66	0.79	0.95	0.62	0.62
07/12/2013	0.55	0.54	0.71	0.66	0.79	0.95	0.67	0.62
07/13/2013	0.46	0.54	0.73	0.66	0.79	0.95	0.69	0.63
07/14/2013	0.48	0.54	0.74	0.66	0.80	0.95	0.70	0.63
07/15/2013	0.50	0.54	0.73	0.67	0.81	0.95	0.70	0.63
07/16/2013	0.53	0.54	0.72	0.67	0.81	0.94	0.68	0.63
07/17/2013	0.49	0.53	0.70	0.67	0.82	0.94	0.65	0.62
07/18/2013	0.51	0.53	0.68	0.68	0.85	0.94	0.68	0.62
07/19/2013	0.54	0.53	0.68	0.68	0.86	0.94	0.66	0.62
07/20/2013	0.52	0.53	0.75	0.68	0.86	0.94	0.69	0.63
07/21/2013	0.53	0.53	0.81	0.69	0.85	0.93	0.68	0.63
07/22/2013	0.51	0.52	0.82	0.69	0.88	0.92	0.69	0.63
07/23/2013	0.48	0.52	0.81	0.70	0.86	0.91	0.70	0.63
07/24/2013	0.49	0.52	0.79	0.70	0.86	0.91	0.69	0.63
07/25/2013	0.54	0.52	0.76	0.70	0.86	0.89	0.70	0.63
07/26/2013	0.49	0.51	0.73	0.70	0.86	0.88	0.72	0.64
07/27/2013	0.51	0.51	0.70	0.71	0.86	0.87	0.73	0.65
07/28/2013	0.49	0.51	0.67	0.71	0.87	0.86	0.74	0.66
07/29/2013	0.52	0.50	0.67	0.70	0.89	0.85	0.73	0.67

Electrical Conductivity (EC) units: milliSiemens per Centimeter

md : mean daily

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e : estimated value

Compliance Standards

for the Sacramento - San Joaquin Delta and Suisun Marsh

Tuesday, August 06, 2013

Criteria	Standard	Status
Flow/Operational		
% of inflow diverted	65 %	45 %
NDOI, monthly average *	>= 3,500 cfs	5,553 cfs
NDOI, 7 day average*	>= 2,500 cfs	5,553 cfs

Water Quality

Days @ CCWD PP#1 w/ chlorides <= 150 mg/l	165 days	216 days
Export Areas for SWP, CVP, CCWD, et al	<= 250 mg/l Cl	166 mg/l
14dm EC at Emmaton	<= 1.67 mS/cm	0.66 mS/cm
14dm EC at Jersey Point	<= 1.35 mS/cm	1.19 mS/cm
Maximum 30 day running average of mean daily EC at:		
Vernalis	<=0.7 mS/cm	0.5 mS/cm
Brandt Bridge	<= 0.7 mS/cm	0.7 mS/cm
Old River Near Tracy	<=0.7 mS/cm	0.8 mS/cm
Old River Near Middle River	<=0.7 mS/cm	0.7 mS/cm

SUISUN MARSH:

Suisun Marsh Salinity Control Gates : 3 Open / 0 Closed / 0 Full Tide Open
Flashboard Status : Out
Boat Lock Status : Closed

California Hydrologic Conditions: (California Cooperative Snow Surveys Forecast, May 1, 2013)

Previous Month's Index (8RI for April.): 2.023 MAF

Water Year Type: Dry

Sacramento valley water year type index (40/30/30) @ 50%: 5.8 MAF (Dry)

San Joaquin valley water year type index (60/20/20) @ 75%: 1.6 MAF (Critical)

Electrical Conductivity (EC) in milliSiemens per Centimeter.

Chlorides (Cl) in milligrams per liter

mht - mean high tides

md - mean daily

14 dm - fourteen day running mean

28 dm - twenty-eight day running mean

NR - No Record

NC - Average not computed due to insufficient data.

BR : Below Rating

e - estimated value

Montezuma Slough Gate Operation:

Number of gates operating at either

Open, Closed, or Full Tide Open

Flashboard Status : In, Out, or Modified In

Boat Lock Status : Open or Closed

Coordinated Operation Agreement Delta Status:

c = excess Delta conditions

b = balanced Delta cond. w/ no storage withdrawal

s = balanced Delta cond. w/ storage withdrawal

Excess Delta conditions with restrictions:

f = fish concerns

r = E/I ratio concerns

* NDOI, Rio Vista & Vernalis Flows:

- Monthly average is progressive daily mean,

- 7 day average is progressive daily mean for the first six days of the month.

Delta Water Quality Conditions

Date	Antioch Tides		Net Delta Outflow Index cfs	Martinez mdEC	Port Chicago		Mallard mdEC	Chippis Island		Collinsville	
	High	Half			mdEC	14dm		mdEC	14dm	mdEC	14dm
07/08/2013	6.70	4.61	4,134	26.14	16.49	14.36	9.88	9.47	7.33	5.46	3.93
07/09/2013	6.39	4.35	5,204	24.47	15.62	14.74	8.90	8.44	7.44	4.67	4.00
07/10/2013	6.20	4.44	5,217	25.61	16.17	15.23	9.26	8.82	7.59	4.99	4.09
07/11/2013	6.12	4.43	5,226	26.21	16.10	15.45	9.30	8.85	7.78	5.18	4.24
07/12/2013	5.87	4.36	5,079	25.71	15.33	15.59	8.99	8.54	8.00	4.91	4.39
07/13/2013	5.56	4.24	5,014	24.84	14.42	15.66	8.31	7.82	8.16	4.48	4.52
07/14/2013	5.79	4.25	5,090	25.16	15.03	15.78	8.70	8.23	8.34	4.60	4.64
07/15/2013	6.11	4.33	4,884	26.04	15.65	15.99	9.18	8.74	8.55	4.94	4.80
07/16/2013	6.18	4.30	4,724	27.04	15.76	16.08	9.14	8.69	8.69	4.96	4.90
07/17/2013	6.28	4.13	5,300	25.12	14.96	16.10	8.23	7.74	8.70	4.34	4.92
07/18/2013	6.60	4.29	5,476	25.42	14.81	16.01	8.78	8.31	8.70	4.68	4.93
07/19/2013	6.77	4.47	5,365	25.83	16.76	15.92	9.47	9.03	8.69	5.29	4.97
07/20/2013	6.94	4.63	5,001	26.95	17.54	15.87	10.38	10.00	8.74	6.13	5.02
07/21/2013	7.21	4.83	4,974	28.62	17.39	15.86	11.37	11.05	8.84	7.02	5.12
07/22/2013	7.24	4.76	5,198	28.27	17.78	15.95	11.22	10.90	8.94	6.84	5.22
07/23/2013	6.89	4.47	5,352	27.81	17.11	16.06	10.44	10.07	9.06	6.09	5.32
07/24/2013	6.52	4.42	4,989	27.22	14.75	15.96	10.18	9.79	9.13	5.98	5.39
07/25/2013	6.32	4.50	5,130	27.04	14.18	15.82	10.46	10.08	9.21	6.08	5.45
07/26/2013	5.96	4.42	5,780	26.61	13.49	15.69	10.29	9.90	9.31	5.95	5.53
07/27/2013	6.01	4.37	6,288	26.62	14.11	15.66	9.95	9.54	9.43	5.81	5.62
07/28/2013	6.27	4.46	6,029	27.17	14.02	15.59	9.85	9.43	9.52	5.88	5.71
07/29/2013	6.34	4.52	4,962	27.56	13.56	15.44	10.05	9.65	9.59	5.95	5.79
07/30/2013	6.22	4.37	5,034	26.53	13.40	15.27	9.65	9.23	9.62	5.52	5.83
07/31/2013	6.28	4.43	5,510	26.43	12.77	15.12	9.64	9.22	9.73	5.60	5.92
08/01/2013	6.22	4.34	5,127	26.29	11.50	14.88	9.32	8.88	9.77	5.12	5.95
08/02/2013	6.16	4.27	5,669	25.38	10.11	14.41	8.81	8.34	9.72	4.70	5.90
08/03/2013	6.30	4.36	6,242	26.46	7.72	13.71	9.27	8.82	9.64	5.14	5.83
08/04/2013	6.41	4.40	6,130	26.94	6.32	12.91	9.85	9.44	9.52	5.40	5.72
08/05/2013	6.31	4.32	5,050	26.71	5.77	12.06	9.43	8.99	9.39	5.12	5.60
08/06/2013	6.23	4.30	5,101	26.82	10.46	11.58	9.46	9.02	9.31	5.17	5.53

Antioch Tides measured in feet above mean sea level.

Net Delta Outflow Index calculated from equation as specified in D-1641, revised June 1995.

Chippis Island EC calculated from measurements recorded at Mallard Slough.

Electrical Conductivity (EC) units: milliSiemens per Centimeter

md : mean daily

14dm : fourteen day running mean

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e - estimated value

Delta Water Quality Conditions

Date	Antioch		Jersey Point		Emmaton		Cache Slough	Good Year Slough	Sunrise Club	Volanti Slough	Beldon Landing	Collinsville
	mdEC	14mdEC	mdEC	14mdEC	mdEC	14mdEC	mdEC	mhtEC	mhtEC	mhtEC	mhtEC	mhtEC
07/08/2013	2.75	1.90	0.79	0.51	0.65	0.45	0.33	11.96	11.05	12.13	10.94	6.27
07/09/2013	2.61	1.96	0.76	0.54	0.54	0.45	0.33	12.16	10.58	11.34	10.73	5.71
07/10/2013	2.64	2.03	0.82	0.57	0.56	0.45	0.34	12.29	10.37	11.32	11.05	6.14
07/11/2013	2.64	2.11	0.86	0.60	0.55	0.46	0.39	12.38	10.21	11.74	10.90	6.15
07/12/2013	2.53	2.20	0.86	0.64	0.45	0.47	0.44	12.45	10.12	11.69	11.05	6.32
07/13/2013	2.40	2.28	0.86	0.68	0.40	0.48	0.43	12.57	10.01	11.54	10.70	5.42
07/14/2013	2.44	2.36	0.89	0.71	0.39	0.49	0.41	12.66	10.05	11.57	10.69	5.94
07/15/2013	2.52	2.44	0.93	0.75	0.45	0.50	0.41	12.74	10.10	11.81	10.79	6.58
07/16/2013	2.50	2.51	0.93	0.79	0.45	0.51	0.41	14.06	10.10	11.56	11.17	6.14
07/17/2013	2.40	2.55	0.90	0.81	0.44	0.52	0.43	15.17	9.99	11.52	11.08	5.75
07/18/2013	2.46	2.57	0.93	0.84	0.54	0.53	0.37	15.12	10.04	12.26	11.33	6.40
07/19/2013	2.79	2.58	1.02	0.86	0.72	0.54	0.32	14.77	10.22	12.45	11.91	6.26
07/20/2013	3.22	2.62	1.12	0.89	0.98	0.56	0.27	14.56	10.36	12.56	11.87	7.45
07/21/2013	3.61	2.68	1.24	0.92	1.22	0.60	0.25	14.93	10.52	12.48	11.91	8.34
07/22/2013	3.71	2.75	1.25	0.95	1.24	0.64	0.28	15.39	10.73	12.28	12.00	8.49
07/23/2013	3.34	2.80	1.08	0.98	0.91	0.66	0.33	15.27	10.91	12.11	12.22	7.61
07/24/2013	3.19	2.84	1.15	1.00	0.86	0.69	0.31	15.72	11.19	12.30	12.93	6.83
07/25/2013	3.21	2.88	1.19	1.02	0.89	0.71	0.32	15.46	11.68	13.44	13.27	7.43
07/26/2013	3.12	2.92	1.20	1.05	0.76	0.73	0.32	15.13	11.38	12.79	12.69	7.47
07/27/2013	2.99	2.96	1.18	1.07	0.65	0.75	0.36	15.06	11.17	12.49	12.64	6.90
07/28/2013	2.99	3.00	1.17	1.09	0.60	0.77	0.37	15.25	11.26	12.76	12.41	7.23
07/29/2013	3.11	3.05	1.20	1.11	0.59	0.78	0.45	15.49	11.45	12.49	12.25	7.22
07/30/2013	3.02	3.08	1.20	1.13	0.48	0.78	0.52	16.73	11.34	12.54	12.38	6.89
07/31/2013	2.99	3.12	1.21	1.15	0.53	0.78	0.52	17.93	11.12	12.45	12.86	6.48
08/01/2013	2.91	3.16	1.20	1.17	0.57	0.79	0.52	e	e	14.26	12.62	6.07
08/02/2013	2.81	3.16	1.18	1.18	0.57	0.78	0.51	17.62	10.77	13.75	12.82	5.65
08/03/2013	2.92	3.14	1.21	1.19	0.65	0.75	0.42	17.36	10.89	13.33	12.38	6.10
08/04/2013	2.98	3.09	1.23	1.19	0.72	0.72	0.39	16.97	10.95	12.78	12.42	6.75
08/05/2013	2.82	3.03	1.18	1.18	0.68	0.68	0.36	16.81	10.87	12.82	12.05	5.96
08/06/2013	2.88	2.99	1.18	1.19	0.68	0.66	0.33	16.77	10.81	12.48	11.81	6.24

Electrical Conductivity (EC) units: milliSiemens per Centimeter

Chloride (Cl) units: milligrams per liter

mht : mean high tides

md : mean daily

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e : estimated value

Delta Water Quality Conditions

Date	Bethel Island mdEC	Farrar Park mdEC	Holland Tract mdEC	Bacon Island mdEC	Contra Costa mdEC	Clifton Court mdEC	Tracy Pumping Plant mdEC	Antioch mdCI	Bacon Island mdCI	Contra Costa mdCI	Delta Status
07/08/2013	0.40	0.45	0.36	0.30	0.28	0.27	0.30	806	41	35	s
07/09/2013	0.42	0.47	0.39	0.33	0.28	0.27	0.31	763	48	36	s
07/10/2013	0.44	0.50	0.39	0.35	0.29	0.28	0.29	771	53	37	s
07/11/2013	0.46	0.54	0.41	0.36	0.30	0.29	0.29	770	55	39	s
07/12/2013	0.48	0.55	0.42	0.38	0.31	0.30	0.29	737	60	43	s
07/13/2013	0.50	0.57	0.44	0.40	0.34	0.31	0.30	695	65	49	s
07/14/2013	0.53	0.61	0.46	0.41	0.36	0.31	0.30	706	69	55	s
07/15/2013	0.55	0.64	0.48	0.42	0.38	0.32	0.30	733	72	60	s
07/16/2013	0.56	0.66	0.51	0.44	0.39	0.32	0.30	727	77	65	s
07/17/2013	0.59	0.66	0.53	0.47	0.40	0.32	0.31	696	84	69	s
07/18/2013	0.61	0.68	0.56	0.49	0.42	0.33	0.32	714	90	74	s
07/19/2013	0.64	0.72	0.57	0.51	0.43	0.36	0.32	818	95	76	s
07/20/2013	0.67	0.75	0.58	0.51	0.46	0.38	0.34	957	95	83	s
07/21/2013	0.72	0.78	0.60	0.52	0.48	0.38	0.34	1,080	97	89	s
07/22/2013	0.75	0.79	0.62	0.53	0.51	0.37	0.35	1,112	100	96	s
07/23/2013	0.76	0.81	0.64	0.55	0.53	0.39	0.37	992	106	100	s
07/24/2013	0.77	0.82	0.65	0.57	0.55	0.40	0.36	945	112	108	s
07/25/2013	0.79	0.83	0.66	0.59	0.56	0.41	0.37	952	115	116	s
07/26/2013	0.81	0.84	0.68	0.60	0.56	0.41	0.37	922	119	113	s
07/27/2013	0.82	0.84	0.69	0.62	0.58	0.41	0.39	882	123	116	s
07/28/2013	0.84	0.83	0.73	0.65	0.59	0.41	0.40	881	131	121	s
07/29/2013	0.85	0.82	0.75	0.68	0.59	0.42	0.42	922	139	120	s
07/30/2013	0.86	0.82	0.77	0.70	0.61	0.43	0.44	890	145	128	s
07/31/2013	0.87	0.82	0.78	0.71	0.62	0.46	0.44	882	148	132	s
08/01/2013	0.88	0.81	0.77	0.71	0.63	0.50	0.46	857	148	136	s
08/02/2013	0.88	0.79	0.75	0.70	0.65	0.49	0.46	826	145	139	s
08/03/2013	0.87	0.78	0.75	0.68	0.67	0.50	0.47	859	139	146	s
08/04/2013	0.89	0.80	0.75	0.66	0.70	0.49	0.46	879	135	152	s
08/05/2013	0.89	0.81	0.74	0.66	0.71	0.48	0.46	827	135	157	s
08/06/2013	0.89	0.80	0.76	0.67	0.74	0.48	0.44	848	138	166	s

Electrical Conductivity (EC) units: milliSiemens per Centimeter

Chloride (CI) units: milligrams per liter

md : mean daily

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e : estimated value

Antioch and Bacon Island mdCI are calculated from the respective mdEC values.

Coordinated Operation Agreement Delta Status:

c = excess Delta conditions

b = balanced Delta cond. w/ no storage withdrawal

s = balanced Delta cond. w/ storage withdrawal

Excess Delta conditions with restrictions:

f = fish concerns

r = E/I ratio concerns

Delta Water Quality Conditions

South Delta Stations

Date	Vernalis		Brandt Bridge		Old River Near Tracy		Old River Near Middle River	
	md EC	30 day avg	md EC	30 day avg	md EC	30 day avg	md EC	30 day avg
07/08/2013	0.50	0.55	0.71	0.65	0.82	0.95	0.66	0.63
07/09/2013	0.52	0.55	0.71	0.65	0.78	0.95	0.64	0.62
07/10/2013	0.48	0.54	0.69	0.65	0.78	0.95	0.60	0.62
07/11/2013	0.49	0.54	0.68	0.66	0.79	0.95	0.62	0.62
07/12/2013	0.55	0.54	0.71	0.66	0.79	0.95	0.67	0.62
07/13/2013	0.46	0.54	0.73	0.66	0.79	0.95	0.69	0.63
07/14/2013	0.48	0.54	0.74	0.66	0.80	0.95	0.70	0.63
07/15/2013	0.50	0.54	0.73	0.67	0.81	0.95	0.70	0.63
07/16/2013	0.53	0.54	0.72	0.67	0.81	0.94	0.68	0.63
07/17/2013	0.49	0.53	0.70	0.67	0.82	0.94	0.65	0.62
07/18/2013	0.51	0.53	0.68	0.68	0.85	0.94	0.68	0.62
07/19/2013	0.54	0.53	0.68	0.68	0.86	0.94	0.66	0.62
07/20/2013	0.52	0.53	0.75	0.68	0.86	0.94	0.69	0.63
07/21/2013	0.53	0.53	0.81	0.69	0.85	0.93	0.68	0.63
07/22/2013	0.51	0.52	0.82	0.69	0.88	0.92	0.69	0.63
07/23/2013	0.48	0.52	0.81	0.70	0.86	0.91	0.70	0.63
07/24/2013	0.49	0.52	0.79	0.70	0.86	0.91	0.69	0.63
07/25/2013	0.54	0.52	0.76	0.70	0.86	0.89	0.70	0.63
07/26/2013	0.49	0.51	0.73	0.70	0.86	0.88	0.72	0.64
07/27/2013	0.51	0.51	0.70	0.71	0.86	0.87	0.73	0.65
07/28/2013	0.49	0.51	0.67	0.71	0.87	0.86	0.74	0.66
07/29/2013	0.52	0.50	0.67	0.70	0.89	0.85	0.73	0.67
07/30/2013	0.53	0.50	0.66	0.70	0.89	0.85	0.72	0.67
07/31/2013	0.53	0.50	0.65	0.70	0.90	0.85	0.71	0.67
08/01/2013	0.45	0.50	0.65	0.70	0.91	0.85	0.69	0.68
08/02/2013	0.53	0.50	0.65	0.71	0.92	0.85	0.68	0.68
08/03/2013	0.47	0.50	0.66	0.71	0.92	0.85	0.69	0.68
08/04/2013	0.47	0.50	0.68	0.71	0.87	0.85	0.70	0.68
08/05/2013	0.51	0.50	0.70	0.71	0.85	0.85	0.70	0.68
08/06/2013	0.53	0.50	0.71	0.71	0.87	0.85	0.70	0.69

Electrical Conductivity (EC) units: millisiemens per Centimeter

md : mean daily

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e : estimated value

Compliance Standards

for the Sacramento - San Joaquin Delta and Suisun Marsh

Thursday, August 15, 2013

Criteria	Standard	Status
Flow/Operational		
% of inflow diverted	65 %	47 %
NDOI, monthly average *	>= 3,500 cfs	5,265 cfs
NDOI, 7 day average*	>= 2,500 cfs	5,135 cfs

Water Quality

Days @ CCWD PP#1 w/ chlorides <= 150 mg/l	165 days	216 days
Export Areas for SWP, CVP, CCWD, et al	<= 250 mg/l Cl	160 mg/l
14dm EC at Emmaton	<= 1.67 mS/cm	0.55 mS/cm
14dm EC at Jersey Point	<= 1.35 mS/cm	1.11 mS/cm
Maximum 30 day running average of mean daily EC at:		
Vernalis	<=0.7 mS/cm	0.5 mS/cm
Brandt Bridge	<= 0.7 mS/cm	0.7 mS/cm
Old River Near Tracy	<=0.7 mS/cm	0.9 mS/cm
Old River Near Middle River	<=0.7 mS/cm	0.7 mS/cm

SUISUN MARSH:

Suisun Marsh Salinity Control Gates : 3 Open / 0 Closed / 0 Full Tide Open
Flashboard Status : Out
Boat Lock Status : Closed

California Hydrologic Conditions: (California Cooperative Snow Surveys Forecast, May 1, 2013)

Previous Month's Index (8RI for April.): 2.023 MAF
Water Year Type: Dry
Sacramento valley water year type index (40/30/30) @ 50%:5.8 MAF (Dry)
San Joaquin valley water year type index (60/20/20) @ 75%: 1.6 MAF (Critical)

Electrical Conductivity (EC) in millisiemens per Centimeter.
Chlorides (Cl) in milligrams per liter
mht - mean high tides
md - mean daily
14 dm - fourteen day running mean
28 dm - twenty-eight day running mean
NR - No Record
NC - Average not computed due to insufficient data.
BR : Below Rating
e - estimated value

Montezuma Slough Gate Operation:
Number of gates operating at either
Open, Closed, or Full Tide Open
Flashboard Status : In, Out, or Modified In
Boat Lock Status : Open or Closed

Coordinated Operation Agreement Delta Status:
c = excess Delta conditions
b = balanced Delta cond. w/ no storage withdrawal
s = balanced Delta cond. w/ storage withdrawal
Excess Delta conditions with restrictions:
f = fish concerns
r = E/I ratio concerns

* NDOI, Rio Vista & Vernalis Flows:
- Monthly average is progressive daily mean.
- 7 day average is progressive daily mean for the first six days of the month.

Delta Water Quality Conditions

Date	Antioch Tides		Net Delta Outflow Index cfs	Martinez mdEC	Port Chicago		Mallard mdEC	Chippis Island		Collinsville	
	High	Half			mdEC	14dm		mdEC	14dm	mdEC	14dm
07/17/2013	6.28	4.13	5,300	25.12	14.96	16.10	8.23	7.74	8.70	4.34	4.92
07/18/2013	6.60	4.29	5,476	25.42	14.81	16.01	8.78	8.31	8.70	4.68	4.93
07/19/2013	6.77	4.47	5,365	25.83	16.76	15.92	9.47	9.03	8.69	5.29	4.97
07/20/2013	6.94	4.63	5,001	26.95	17.54	15.87	10.38	10.00	8.74	6.13	5.02
07/21/2013	7.21	4.83	4,974	28.62	17.39	15.86	11.37	11.05	8.84	7.02	5.12
07/22/2013	7.24	4.76	5,198	28.27	17.78	15.95	11.22	10.90	8.94	6.84	5.22
07/23/2013	6.89	4.47	5,352	27.81	17.11	16.06	10.44	10.07	9.06	6.09	5.32
07/24/2013	6.52	4.42	4,989	27.22	14.75	15.96	10.18	9.79	9.13	5.98	5.39
07/25/2013	6.32	4.50	5,130	27.04	14.18	15.82	10.46	10.08	9.21	6.08	5.45
07/26/2013	5.96	4.42	5,780	26.61	13.49	15.69	10.29	9.90	9.31	5.95	5.53
07/27/2013	6.01	4.37	6,288	26.62	14.11	15.66	9.95	9.54	9.43	5.81	5.62
07/28/2013	6.27	4.46	6,029	27.17	14.02	15.59	9.85	9.43	9.52	5.88	5.71
07/29/2013	6.34	4.52	4,962	27.56	13.56	15.44	10.05	9.65	9.59	5.95	5.79
07/30/2013	6.22	4.37	5,034	26.53	13.40	15.27	9.65	9.23	9.62	5.52	5.83
07/31/2013	6.28	4.43	5,510	26.43	12.77	15.12	9.64	9.22	9.73	5.60	5.92
08/01/2013	6.22	4.34	5,127	26.29	11.50	14.88	9.32	8.88	9.77	5.12	5.95
08/02/2013	6.16	4.27	5,669	25.38	10.11	14.41	8.81	8.34	9.72	4.70	5.90
08/03/2013	6.30	4.36	6,242	26.46	7.72	13.71	9.27	8.82	9.64	5.14	5.83
08/04/2013	6.41	4.40	6,130	26.94	6.32	12.91	9.85	9.44	9.52	5.40	5.72
08/05/2013	6.31	4.32	5,050	26.71	5.77	12.06	9.43	8.99	9.39	5.12	5.60
08/06/2013	6.23	4.30	5,101	26.82	10.46	11.58	9.46	9.02	9.31	5.17	5.53
08/07/2013	6.15	4.21	4,918	26.47	14.64	11.57	9.42	8.98	9.25	4.79	5.44
08/08/2013	5.86	4.08	4,793	25.81	16.71	11.75	8.68	8.21	9.12	4.43	5.33
08/09/2013	5.75	4.11	5,054	26.30	16.79	11.99	8.72	8.25	9.00	4.52	5.22
08/10/2013	5.50	4.10	4,465	25.66	16.60	12.17	8.71	8.24	8.91	4.55	5.13
08/11/2013	5.60	4.02	4,760	25.03	16.02	12.31	8.08	7.59	8.78	4.38	5.03
08/12/2013	5.81	4.07	5,190	25.23	15.48	12.45	7.97	7.47	8.62	4.42	4.92
08/13/2013	5.92	4.02	5,226	24.71	15.24	12.58	8.02	7.52	8.50	4.29	4.83
08/14/2013	6.18	4.12	6,002	24.85	16.09	12.82	8.59	8.12	8.42	4.48	4.75
08/15/2013	6.40	4.24	5,251	25.88	16.81	13.20	8.99	8.53	8.39	4.63	4.72

Antioch Tides measured in feet above mean sea level.

Net Delta Outflow Index calculated from equation as specified in D-1841, revised June 1995.

Chippis Island EC calculated from measurements recorded at Mallard Slough.

Electrical Conductivity (EC) units: milliSiemens per Centimeter

md : mean daily

14dm : fourteen day running mean

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e - estimated value

Delta Water Quality Conditions

Date	Antioch		Jersey Point		Emmaton		Cache Slough	Good Year Slough	Sunrise Club	Volanti Slough	Beldon Landing	Collinsville
	mdEC	14mdEC	mdEC	14mdEC	mdEC	14mdEC	mdEC	mhtEC	mhtEC	mhtEC	mhtEC	mhtEC
07/17/2013	2.40	2.55	0.90	0.81	0.44	0.52	0.43	15.17	9.99	11.52	11.08	5.75
07/18/2013	2.46	2.57	0.93	0.84	0.54	0.53	0.37	15.12	10.04	12.26	11.33	6.40
07/19/2013	2.79	2.58	1.02	0.86	0.72	0.54	0.32	14.77	10.22	12.45	11.91	6.26
07/20/2013	3.22	2.62	1.12	0.89	0.98	0.56	0.27	14.56	10.36	12.56	11.87	7.45
07/21/2013	3.61	2.68	1.24	0.92	1.22	0.60	0.25	14.93	10.52	12.48	11.91	8.34
07/22/2013	3.71	2.75	1.25	0.95	1.24	0.64	0.28	15.39	10.73	12.28	12.00	8.49
07/23/2013	3.34	2.80	1.08	0.98	0.91	0.66	0.33	15.27	10.91	12.11	12.22	7.61
07/24/2013	3.19	2.84	1.15	1.00	0.86	0.69	0.31	15.72	11.19	12.30	12.93	6.83
07/25/2013	3.21	2.88	1.19	1.02	0.89	0.71	0.32	15.46	11.68	13.44	13.27	7.43
07/26/2013	3.12	2.92	1.20	1.05	0.76	0.73	0.32	15.13	11.38	12.79	12.69	7.47
07/27/2013	2.99	2.96	1.18	1.07	0.65	0.75	0.36	15.06	11.17	12.49	12.64	6.90
07/28/2013	2.99	3.00	1.17	1.09	0.60	0.77	0.37	15.25	11.26	12.76	12.41	7.23
07/29/2013	3.11	3.05	1.20	1.11	0.59	0.78	0.45	15.49	11.45	12.49	12.25	7.22
07/30/2013	3.02	3.08	1.20	1.13	0.48	0.78	0.52	16.73	11.34	12.54	12.38	6.89
07/31/2013	2.99	3.12	1.21	1.15	0.53	0.78	0.52	17.93	11.12	12.45	12.86	6.48
08/01/2013	2.91	3.16	1.20	1.17	0.57	0.79	0.52	e	e	14.26	12.62	6.07
08/02/2013	2.81	3.16	1.18	1.18	0.57	0.78	0.51	17.62	10.77	13.75	12.82	5.65
08/03/2013	2.92	3.14	1.21	1.19	0.65	0.75	0.42	17.36	10.89	13.33	12.38	6.10
08/04/2013	2.98	3.09	1.23	1.19	0.72	0.72	0.39	16.97	10.95	12.78	12.42	6.75
08/05/2013	2.82	3.03	1.18	1.18	0.68	0.68	0.36	16.81	10.87	12.82	12.05	5.96
08/06/2013	2.88	2.99	1.18	1.19	0.68	0.66	0.33	16.77	10.81	12.48	11.81	6.24
08/07/2013	2.84	2.97	1.14	1.19	0.66	0.64	0.31	16.97	10.78	13.06	12.14	6.01
08/08/2013	2.66	2.93	1.08	1.18	0.55	0.62	0.31	17.00	12.24	13.62	12.28	5.37
08/09/2013	2.63	2.90	1.10	1.17	0.54	0.60	0.32	16.93	13.25	13.38	12.26	5.44
08/10/2013	2.53	2.86	1.07	1.17	0.48	0.59	0.32	16.78	12.47	12.70	12.37	5.74
08/11/2013	2.37	2.82	1.04	1.16	0.40	0.58	0.32	16.72	12.17	12.67	12.23	5.05
08/12/2013	2.38	2.77	1.04	1.14	0.40	0.57	0.37	16.60	12.02	12.63	12.18	5.45
08/13/2013	2.46	2.73	1.03	1.13	0.41	0.56	0.40	16.44	11.84	12.53	12.52	5.62
08/14/2013	2.58	2.70	1.06	1.12	0.50	0.56	0.43	16.10	12.62	12.54	12.98	5.88
08/15/2013	2.73	2.69	1.10	1.11	0.53	0.55	0.42	15.88	12.92	13.30	13.02	6.18

Electrical Conductivity (EC) units: milliSiemens per Centimeter

Chloride (Cl) units: milligrams per liter

mht: mean high tides

md: mean daily

NR: No Record

NC: Average not computed due to insufficient data

BR: Below Rating

e: estimated value

Delta Water Quality Conditions

Date	Bethel Island mdEC	Farrar Park mdEC	Holland Tract mdEC	Bacon Island mdEC	Contra Costa mdEC	Clifton Court mdEC	Tracy Pumping Plant mdEC	Antioch mdCI	Bacon Island mdCI	Contra Costa mdCI	Delta Status
07/17/2013	0.59	0.66	0.53	0.47	0.40	0.32	0.31	696	84	69	s
07/18/2013	0.61	0.68	0.56	0.49	0.42	0.33	0.32	714	90	74	s
07/19/2013	0.64	0.72	0.57	0.51	0.43	0.36	0.32	818	95	76	s
07/20/2013	0.67	0.75	0.58	0.51	0.46	0.38	0.34	957	95	83	s
07/21/2013	0.72	0.78	0.60	0.52	0.48	0.38	0.34	1,080	97	89	s
07/22/2013	0.75	0.79	0.62	0.53	0.51	0.37	0.35	1,112	100	96	s
07/23/2013	0.76	0.81	0.64	0.55	0.53	0.39	0.37	992	106	100	s
07/24/2013	0.77	0.82	0.65	0.57	0.55	0.40	0.36	945	112	108	s
07/25/2013	0.79	0.83	0.66	0.59	0.56	0.41	0.37	952	115	116	s
07/26/2013	0.81	0.84	0.68	0.60	0.56	0.41	0.37	922	119	113	s
07/27/2013	0.82	0.84	0.69	0.62	0.58	0.41	0.39	882	123	116	s
07/28/2013	0.84	0.83	0.73	0.65	0.59	0.41	0.40	881	131	121	s
07/29/2013	0.85	0.82	0.75	0.68	0.59	0.42	0.42	922	139	120	s
07/30/2013	0.86	0.82	0.77	0.70	0.61	0.43	0.44	890	145	128	s
07/31/2013	0.87	0.82	0.78	0.71	0.62	0.46	0.44	882	148	132	s
08/01/2013	0.88	0.81	0.77	0.71	0.63	0.50	0.46	857	148	136	s
08/02/2013	0.88	0.79	0.75	0.70	0.65	0.49	0.46	826	145	139	s
08/03/2013	0.87	0.78	0.75	0.68	0.67	0.50	0.47	859	139	146	s
08/04/2013	0.89	0.80	0.75	0.66	0.70	0.49	0.46	879	135	152	s
08/05/2013	0.89	0.81	0.74	0.66	0.71	0.48	0.46	827	135	157	s
08/06/2013	0.89	0.80	0.76	0.67	0.74	0.48	0.44	848	138	166	s
08/07/2013	0.89	0.80	0.76	0.69	0.74	0.48	0.43	835	142	169	s
08/08/2013	0.89	0.80	0.77	0.70	0.76	0.50	0.45	778	146	170	s
08/09/2013	0.88	0.77	0.77	0.71	0.77	0.50	0.48	769	148	172	s
08/10/2013	0.88	0.77	0.75	0.71	0.75	0.50	0.49	736	147	172 e	s
08/11/2013	0.88	0.76	0.71	0.69	0.74	0.51	0.49	685	143	172 e	s
08/12/2013	0.88	0.76	0.73	0.68	0.73	0.49	0.47	688	139	167	s
08/13/2013	0.87	0.76	0.72	0.66	0.74	0.49	0.47	714	135	165	s
08/14/2013	0.87	0.72	0.71	0.65	0.74	0.49	0.49	753	132	166	s
08/15/2013	0.87	0.69	0.71	0.64	0.75	0.47	0.48	799	129	160	s

Electrical Conductivity (EC) units: milliSiemens per Centimeter

Chloride (CI) units: milligrams per liter

md : mean daily

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e : estimated value

Antioch and Bacon Island mdCI are calculated from the respective mdEC values.

Coordinated Operation Agreement Delta Status:

c = excess Delta conditions

b = balanced Delta cond. w/ no storage withdrawal

s = balanced Delta cond. w/ storage withdrawal

Excess Delta conditions with restrictions:

f = fish concerns

r = E/I ratio concerns

Delta Water Quality Conditions

South Delta Stations

Date	Vernalis		Brandt Bridge		Old River Near Tracy		Old River Near Middle River	
	md EC	30 day avg	md EC	30 day avg	md EC	30 day avg	md EC	30 day avg
07/17/2013	0.49	0.53	0.70	0.67	0.82	0.94	0.65	0.62
07/18/2013	0.51	0.53	0.68	0.68	0.85	0.94	0.68	0.62
07/19/2013	0.54	0.53	0.68	0.68	0.86	0.94	0.66	0.62
07/20/2013	0.52	0.53	0.75	0.68	0.86	0.94	0.69	0.63
07/21/2013	0.53	0.53	0.81	0.69	0.85	0.93	0.68	0.63
07/22/2013	0.51	0.52	0.82	0.69	0.88	0.92	0.69	0.63
07/23/2013	0.48	0.52	0.81	0.70	0.86	0.91	0.70	0.63
07/24/2013	0.49	0.52	0.79	0.70	0.86	0.91	0.69	0.63
07/25/2013	0.54	0.52	0.76	0.70	0.86	0.89	0.70	0.63
07/26/2013	0.49	0.51	0.73	0.70	0.86	0.88	0.72	0.64
07/27/2013	0.51	0.51	0.70	0.71	0.86	0.87	0.73	0.65
07/28/2013	0.49	0.51	0.67	0.71	0.87	0.86	0.74	0.66
07/29/2013	0.52	0.50	0.67	0.70	0.89	0.85	0.73	0.67
07/30/2013	0.53	0.50	0.66	0.70	0.89	0.85	0.72	0.67
07/31/2013	0.53	0.50	0.65	0.70	0.90	0.85	0.71	0.67
08/01/2013	0.45	0.50	0.65	0.70	0.91	0.85	0.69	0.68
08/02/2013	0.53	0.50	0.65	0.71	0.92	0.85	0.68	0.68
08/03/2013	0.47	0.50	0.66	0.71	0.92	0.85	0.69	0.68
08/04/2013	0.47	0.50	0.68	0.71	0.87	0.85	0.70	0.68
08/05/2013	0.51	0.50	0.70	0.71	0.85	0.85	0.70	0.68
08/06/2013	0.53	0.50	0.71	0.71	0.87	0.85	0.70	0.69
08/07/2013	0.51	0.51	0.71	0.71	0.86	0.85	0.67	0.69
08/08/2013	0.49	0.50	0.71	0.71	0.85	0.85	0.63	0.69
08/09/2013	0.45	0.50	0.70	0.71	0.84	0.85	0.65	0.69
08/10/2013	0.49	0.50	0.69	0.71	0.86	0.86	0.68	0.69
08/11/2013	0.53	0.50	0.69	0.71	0.83	0.86	0.69	0.69
08/12/2013	0.51	0.50	0.69	0.71	0.80	0.86	0.68	0.69
08/13/2013	0.53	0.51	0.68	0.71	0.82	0.86	0.63	0.69
08/14/2013	0.49	0.51	0.66	0.71	0.89	0.86	0.64	0.69
08/15/2013	0.50	0.50	0.63	0.70	0.88	0.86	0.63	0.68

Electrical Conductivity (EC) units: milliSiemens per Centimeter

md : mean daily

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e : estimated value

Compliance Standards

for the Sacramento - San Joaquin Delta and Suisun Marsh

Thursday, October 24, 2013

Criteria	Standard	Status
Flow/Operational		
% of inflow diverted	65 %	33 %
NDOI, monthly average *	>= 4,000 cfs	3,801 cfs
NDOI, 7 day average*	>= 3,000 cfs	3,574 cfs
Rio Vista flow, monthly average *	>= 4,000 cfs	3,939 cfs
Rio Vista flow, 7 day average*	>= 3,000 cfs	3,663 cfs

Water Quality

Days @ CCWD PP#1 w/ chlorides <= 150 mg/l	165 days	216 days
Export Areas for SWP, CVP, CCWD, et al	<= 250 mg/l Cl	115 mg/l

Maximum 30 day running average of mean daily EC at:

Vernalis	<=1.0 mS/cm	0.5 mS/cm
Brandt Bridge	<=1.0 mS/cm	0.6 mS/cm
Old River Near Tracy	<=1.0 mS/cm	0.8 mS/cm
Old River Near Middle River	<=1.0 mS/cm	0.6 mS/cm

SUISUN MARSH:

Suisun Marsh Salinity Control Gates :	3 Open / 0 Closed / 0 Full Tide Open
Flashboard Status : Out	
Boat Lock Status : Closed	

California Hydrologic Conditions: (California Cooperative Snow Surveys Forecast, May 1, 2013)

Previous Month's Index (8RI for May): 1.430 MAF

Water Year Type: Dry

Sacramento valley water year type index (40/30/30) @ 50%:5.8 MAF (Dry)

San Joaquin valley water year type index (60/20/20) @ 75%: 1.6 MAF (Critical)

Electrical Conductivity (EC) in milliSiemens per Centimeter.

Chlorides (Cl) in milligrams per liter

mht - mean high tides

md - mean daily

14 dm - fourteen day running mean

28 dm - twenty-eight day running mean

NR - No Record

NC - Average not computed due to insufficient data.

BR : Below Rating

e - estimated value

Montezuma Slough Gate Operation:

Number of gates operating at either
Open, Closed, or Full Tide Open

Flashboard Status : In, Out, or Modified In

Boat Lock Status : Open or Closed

Coordinated Operation Agreement Delta Status:

(Note: below label begins on October 1, 2013)

c = excess Delta conditions

b = balanced Delta conditions

r = excess Delta conditions with restrictions:

* NDOI, Rio Vista & Vernalis Flows:

- Monthly average is progressive daily mean.

- 7 day average is progressive daily mean for the first six days of the month.

Delta Water Quality Conditions

Date	Antioch Tides		Net Delta Outflow Index cfs	Martinez mdEC	Port Chicago		Mallard mdEC	Chipps Island		Collinsville	
	High	Half			mdEC	14dm		mdEC	14dm	mdEC	14dm
09/25/2013	5.94	4.30	4,585	24.18	16.69	16.72	9.31	8.87	8.62	5.15	4.97
09/26/2013	5.61	4.16	4,430	22.95	14.82	16.55	8.37	7.89	8.51	4.85	4.91
09/27/2013	5.32	3.91	4,202	22.69	15.22	16.41	7.77	7.26	8.37	4.23	4.82
09/28/2013	5.37	3.89	3,921	22.68	15.08	16.28	8.30	7.81	8.28	4.16	4.74
09/29/2013	5.46	3.96	4,304	24.79	16.71	16.26	9.24	8.79	8.26	4.73	4.70
09/30/2013	5.44	3.97	4,067	25.18	16.98	16.29	9.63	9.20	8.30	5.20	4.73
10/01/2013	5.56	3.99	4,302	25.62	17.85	16.33	10.13	9.74	8.40	5.42	4.78
10/02/2013	5.48	3.91	4,055	25.43	18.03	16.47	9.88	9.47	8.54	5.78	4.88
10/03/2013	5.38	3.82	4,312	25.67	17.63	16.57	9.64	9.21	8.65	5.94	4.99
10/04/2013	5.39	3.72	4,027	25.37	16.46	16.50	9.09	8.64	8.63	5.99	5.06
10/05/2013	5.58	3.72	3,970	26.43	18.29	16.61	10.48	10.10	8.71	5.44	5.09
10/06/2013	5.76	3.82	3,366	26.81	19.03	16.80	10.61	10.25	8.85	5.89	5.16
10/07/2013	6.13	4.10	3,522	27.82	20.04	17.11	11.63	11.34	9.09	6.97	5.33
10/08/2013	6.31	4.20	3,865	28.75	20.52	17.38	12.36	12.13	9.34	7.87	5.54
10/09/2013	6.47	4.43	4,189	29.86	22.19	17.77	13.47	13.34	9.65	8.27	5.77
10/10/2013	6.28	4.41	4,135	29.23	21.27	18.23	12.95	12.77	10.00	7.80	5.98
10/11/2013	5.98	4.22	3,949	28.16	21.10	18.65	12.72	12.52	10.38	7.40	6.20
10/12/2013	5.92	4.18	3,762	28.27	20.77	19.06	12.62	12.41	10.71	8.16	6.49
10/13/2013	5.58	4.02	3,618	27.76	19.67	19.27	12.17	11.93	10.93	7.57	6.69
10/14/2013	5.37	3.79	4,033	27.41	19.61	19.46	11.72	11.44	11.09	7.30	6.84
10/15/2013	5.50	3.88	3,671	28.01	19.89	19.61	11.95	11.68	11.23	7.35	6.98
10/16/2013	5.62	3.92	3,635	28.99	20.68	19.80	12.61	12.40	11.44	8.09	7.14
10/17/2013	5.90	4.01	3,786	29.17	21.26	20.06	13.16	13.00	11.71	8.59	7.33
10/18/2013	6.05	4.16	3,626	29.26	21.87	20.44	13.70	13.59	12.06	9.52	7.59
10/19/2013	6.10	4.15	3,731	29.21	20.86	20.62	13.73	13.62	12.31	9.41	7.87
10/20/2013	6.12	4.21	3,365	28.95	22.14	20.85	14.08	14.01	12.58	9.96	8.16
10/21/2013	6.12	4.27	3,163	29.25	22.18	21.00	14.66	14.65	12.82	10.20	8.39
10/22/2013	5.97	4.20	3,033	28.07	20.96	21.03	13.04	12.87	12.87	8.84	8.46
10/23/2013	6.06	4.34	4,176	29.73	22.41	21.05	14.78	14.77	12.97	10.33	8.61
10/24/2013	5.91	4.47	3,922	30.27	22.55	21.14	15.64	15.73	13.19	10.86	8.83

Antioch Tides measured in feet above mean sea level.

Net Delta Outflow Index calculated from equation as specified in D-1641, revised June 1995.

Chipps Island EC calculated from measurements recorded at Mallard Slough.

Electrical Conductivity (EC) units: milliSiemens per Centimeter

md : mean daily

14dm : fourteen day running mean

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e - estimated value

Delta Water Quality Conditions

Date	Antioch		Jersey Point		Emmaton		Cache Slough	Good Year Slough	Sunrise Club	Volanti Slough	Beldon Landing	Collinsville
	mdEC	14mdEC	mdEC	14mdEC	mdEC	14mdEC	mdEC	mhtEC	mhtEC	mhtEC	mhtEC	mhtEC
09/25/2013	2.90	2.80	0.97	1.08	NR	NC	0.53	15.49	e	13.86	15.28	6.04
09/26/2013	2.62	2.75	0.92	1.05	NR	NC	0.51	15.38	12.36	14.35	15.23	5.99
09/27/2013	2.37	2.70	0.85	1.02	0.56	NC	0.48	15.33	11.91	14.82	15.22	5.40
09/28/2013	2.49	2.67	0.86	0.99	0.59	NC	0.47	15.11	12.02	14.76	15.20	5.81
09/29/2013	2.62	2.65	0.85	0.97	0.66	NC	0.47	14.68	12.23	14.61	15.18	5.73
09/30/2013	2.76	2.63	0.85	0.95	0.72	NC	0.47	14.39	12.36	14.40	15.15	6.39
10/01/2013	2.89	2.65	0.86	0.93	0.78	NC	0.47	14.34	12.35	14.23	15.33	6.75
10/02/2013	2.79	2.67	0.81	0.92	0.74	NC	0.46	14.44	12.35	14.19	15.27	7.18
10/03/2013	2.66	2.68	0.82	0.91	0.63	NC	0.51	14.66	12.27	14.05	15.22	6.58
10/04/2013	2.26	2.65	0.81	0.89	0.50	NC	0.49	15.02	12.08	13.81	15.11	6.59
10/05/2013	2.74	2.64	0.83	0.88	0.94	NC	0.44	15.86	12.73	14.55	15.46	6.54
10/06/2013	3.18	2.68	0.86	0.87	1.15	NC	0.44	16.37	12.84	14.99	16.02	7.49
10/07/2013	3.66	2.76	0.91	0.87	1.48	NC	0.44	16.49	12.98	15.21	16.41	8.38
10/08/2013	4.19	2.87	0.98	0.87	1.67	NC	0.43	16.46	12.87	15.46	16.73	9.39
10/09/2013	4.84	3.00	1.13	0.88	1.95	NC	0.42	16.63	13.50	16.18	16.98	9.96
10/10/2013	4.83	3.16	1.20	0.90	1.85	1.02	0.41	16.85	13.98	16.84	17.29	9.76
10/11/2013	4.45	3.31	1.04	0.91	1.75	1.10	0.44	17.15	14.01	16.79	16.94	8.37
10/12/2013	4.27	3.44	1.04	0.93	1.72	1.18	0.44	17.35	14.14	16.95	17.47	9.31
10/13/2013	4.21	3.55	1.02	0.94	1.53	1.24	0.46	17.50	14.45	16.80	17.67	8.71
10/14/2013	3.84	3.63	0.97	0.95	1.47	1.30	0.49	17.64	14.48	16.97	17.75	8.42
10/15/2013	4.07	3.71	0.95	0.95	1.57	1.35	0.50	17.76	14.58	16.86	17.96	9.53
10/16/2013	4.52	3.84	1.03	0.97	2.03	1.45	0.53	17.79	14.75	16.96	18.05	9.45
10/17/2013	4.84	3.99	1.10	0.99	2.26	1.56	0.56	17.85	14.85	17.30	17.73	10.38
10/18/2013	5.45	4.22	1.33	1.03	2.40	1.70	0.56	17.94	15.00	17.72	17.65	10.97
10/19/2013	5.54	4.42	1.35	1.06	2.55	1.81	0.54	18.06	15.00	17.42	18.05	10.77
10/20/2013	5.68	4.60	1.41	1.10	2.82	1.93	0.52	18.25	15.08	17.49	18.18	10.77
10/21/2013	5.73	4.75	1.43	1.14	2.99	2.04	0.51	18.42	15.11	17.69	18.37	11.40
10/22/2013	4.82	4.79	1.18	1.16	2.25	2.08	0.54	18.55	15.09	17.59	18.50	10.70
10/23/2013	5.94	4.87	1.67	1.19	2.94	2.15	0.65	18.68	15.11	17.28	18.45	11.50
10/24/2013	5.98	4.95	1.73	1.23	3.22	2.25	0.70	18.78	15.13	17.78	18.43	12.17

Electrical Conductivity (EC) units: milliSiemens per Centimeter

Chloride (Cl) units: milligrams per liter

mht : mean high tides

md : mean daily

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e : estimated value

Delta Water Quality Conditions

Date	Bethel Island mdEC	Farrar Park mdEC	Holland Tract mdEC	Bacon Island mdEC	Contra Costa mdEC	Clifton Court mdEC	Tracy Pumping Plant mdEC	Antioch mdCl	Bacon Island mdCl	Contra Costa mdCl	Delta Status
09/25/2013	0.82	1.01	0.71	0.66	0.86	0.57	0.58	853	136	209	b
09/26/2013	0.82	0.99	0.70	0.66	0.93	0.58	0.57	763	135	212	b
09/27/2013	0.79	0.98	0.67	0.66	0.93	0.55	0.58	685	135	212	b
09/28/2013	0.75	0.96	0.63	0.65	0.93	0.55	0.58	723	132	202	b
09/29/2013	0.73	0.94	0.61	0.62	0.93	0.55	0.56	764	123	202	b
09/30/2013	0.72	0.92	0.60	0.59	0.92	0.54	0.52	809	117	202	b
10/01/2013	0.71	0.90	0.60	0.57	0.93	0.55	0.52	851	112	211	b
10/02/2013	0.71	0.89	0.59	0.56	0.90	0.53	0.51	819	109	204	b
10/03/2013	0.70	0.87	0.59	0.55	0.90	0.53	0.51	776	107	190	b
10/04/2013	0.69	0.85	0.57	0.56	0.89	0.52	0.50	649	108	182	b
10/05/2013	0.66	0.83	0.54	0.56	0.89	0.51	0.50	803	109	190	b
10/06/2013	0.65	0.82	0.53	0.54	0.85	0.52	0.50	943	104	182	b
10/07/2013	0.64	0.81	0.53	0.53	0.80	0.51	0.50	1,094	99	188	b
10/08/2013	0.64	0.80	0.53	0.51	0.77	0.50	0.50	1,264	95	165	b
10/09/2013	0.65	0.81	0.52	0.50	0.76	0.50	0.50	1,471	93	168	b
10/10/2013	0.65	0.81	0.50	0.50	0.73	0.50	0.50	1,469	92	168	b
10/11/2013	0.65	0.80	0.50	0.49	0.70	0.50	0.51	1,347	91	158	b
10/12/2013	0.65	0.80	0.50	0.49	0.69	0.51	0.51	1,290	90	153	b
10/13/2013	0.65	0.79	0.49	0.49	0.67	0.50	0.51	1,271	90	149	b
10/14/2013	0.65	0.78	0.49	0.49	0.64	0.49	0.51	1,152	90	147	b
10/15/2013	0.64	0.78	NR	0.49	0.64	0.50	0.51	1,225	89	137	b
10/16/2013	0.64	0.79	NR	0.49	0.63	0.49	0.51	1,369	89	131	b
10/17/2013	0.65	0.80	NR	0.48	0.62	0.48	0.52	1,471	88	129	b
10/18/2013	0.67	0.82	0.55	0.48	0.61	0.48	0.52	1,665	88	128	b
10/19/2013	0.68	0.83	0.55	0.48	0.59	0.45	0.53	1,694	88	128 e	b
10/20/2013	0.70	0.86	0.55	0.48	0.59	0.46	0.52	1,739	88	128 e	b
10/21/2013	0.71	0.87	0.56	0.49	0.59	0.46	0.52	1,754	89	121	b
10/22/2013	0.70	0.84	0.55	0.49	0.59	0.46	0.55	1,465	89	121	b
10/23/2013	0.74	0.93	0.58	0.49	0.58	0.46	0.52	1,821	90	118	b
10/24/2013	0.77	0.96	0.57	0.50	0.57	0.48	0.51	1,835	91	115	b

Electrical Conductivity (EC) units: milliSiemens per Centimeter

Chloride (Cl) units: milligrams per liter

md : mean daily

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e : estimated value

Antioch and Bacon Island mdCl are calculated from the respective mdEC values.

Coordinated Operation Agreement Delta Status:

(Note: below label begins on October 1, 2013)

c = excess Delta conditions

b = balanced Delta conditions

r = excess Delta conditions with restrictions:

Delta Water Quality Conditions

South Delta Stations

Date	Vernalis		Brandt Bridge		Old River Near Tracy		Old River Near Middle River	
	md EC	30 day avg	md EC	30 day avg	md EC	30 day avg	md EC	30 day avg
09/25/2013	0.31	0.55	0.54	0.67	0.85	0.84	0.45	0.63
09/26/2013	0.32	0.54	0.40	0.66	0.80	0.84	0.36	0.62
09/27/2013	0.31	0.53	0.36	0.65	0.71	0.84	0.35	0.61
09/28/2013	0.28	0.52	0.37	0.64	0.66	0.83	0.37	0.61
09/29/2013	0.30	0.51	0.36	0.63	0.65	0.83	0.36	0.60
09/30/2013	0.40	0.51	0.34	0.62	0.60	0.82	0.34	0.59
10/01/2013	0.50	0.50	0.35	0.60	0.63	0.82	0.36	0.58
10/02/2013	0.55	0.50	0.42	0.59	0.60	0.81	0.43	0.57
10/03/2013	0.58	0.50	0.50	0.58	0.60	0.80	0.52	0.56
10/04/2013	0.62	0.50	0.58	0.58	0.63	0.80	0.57	0.56
10/05/2013	0.58	0.50	0.64	0.58	0.64	0.79	0.63	0.56
10/06/2013	0.58	0.51	0.65	0.57	0.69	0.78	0.66	0.56
10/07/2013	0.61	0.51	0.68	0.57	0.74	0.78	0.67	0.56
10/08/2013	0.64	0.51	0.66	0.57	0.81	0.78	0.65	0.56
10/09/2013	0.58	0.51	0.66	0.57	0.86	0.78	0.66	0.56
10/10/2013	0.61	0.51	0.70	0.57	0.88	0.78	0.69	0.56
10/11/2013	0.66	0.52	0.71	0.57	0.90	0.79	0.69	0.56
10/12/2013	0.61	0.52	0.68	0.57	0.89	0.79	0.68	0.57
10/13/2013	0.65	0.53	0.70	0.58	0.86	0.79	0.71	0.57
10/14/2013	0.67	0.53	0.74	0.58	0.86	0.79	0.74	0.57
10/15/2013	0.62	0.53	0.71	0.58	0.86	0.79	0.71	0.58
10/16/2013	0.51	0.53	0.75	0.58	0.89	0.79	0.74	0.58
10/17/2013	0.52	0.53	0.75	0.59	0.91	0.79	0.72	0.59
10/18/2013	0.54	0.52	0.62	0.59	0.90	0.79	0.60	0.59
10/19/2013	0.63	0.53	0.59	0.59	0.90	0.79	0.58	0.59
10/20/2013	0.63	0.53	0.60	0.59	0.88	0.79	0.60	0.58
10/21/2013	0.58	0.52	0.68	0.59	0.83	0.79	0.68	0.58
10/22/2013	0.57	0.52	0.71	0.59	0.80	0.78	0.70	0.59
10/23/2013	0.55	0.53	0.67	0.59	0.80	0.78	0.67	0.59
10/24/2013	0.47	0.53	0.65	0.59	0.84	0.78	0.65	0.58

Electrical Conductivity (EC) units: millisiemens per Centimeter

md : mean daily

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e : estimated value

Compliance Standards

for the Sacramento - San Joaquin Delta and Suisun Marsh

Tuesday, November 05, 2013

Criteria	Standard	Status
Flow/Operational		
% of inflow diverted	65 %	39 %
NDOI, monthly average *	>= 4,500 cfs	5,288 cfs
NDOI, 7 day average*	>= 3,500 cfs	5,288 cfs
Rio Vista flow, monthly average *	>= 4,500 cfs	5,094 cfs
Rio Vista flow, 7 day average*	>= 3,500 cfs	5,094 cfs
Water Quality		
Days @ CCWD PP#1 w/ chlorides <= 150 mg/l	165 days	239 days
Export Areas for SWP, CVP, CCWD, et al	<= 250 mg/l Cl	101 mg/l
Maximum 30 day running average of mean daily EC at:		
Vernalis	<=1.0 mS/cm	0.5 mS/cm
Brandt Bridge	<=1.0 mS/cm	0.6 mS/cm
Old River Near Tracy	<=1.0 mS/cm	0.8 mS/cm
Old River Near Middle River	<=1.0 mS/cm	0.6 mS/cm
SUISUN MARSH:		
Suisun Marsh Salinity Control Gates :	3 Open / 0 Closed / 0 Full Tide Open	
Flashboard Status : Out		
Boat Lock Status : Closed		

California Hydrologic Conditions: (California Cooperative Snow Surveys Forecast, May 1, 2013)

Previous Month's Index (8RI for May): 1.430 MAF

Water Year Type: Dry

Sacramento valley water year type index (40/30/30) @ 50%:5.8 MAF (Dry)

San Joaquin valley water year type index (60/20/20) @ 75%: 1.6 MAF (Critical)

Electrical Conductivity (EC) in milliSiemens per Centimeter.

Chlorides (Cl) in milligrams per liter

mht - mean high tides

md - mean daily

14 dm - fourteen day running mean

28 dm - twenty-eight day running mean

NR - No Record

NC - Average not computed due to insufficient data.

BR : Below Rating

e - estimated value

Montezuma Slough Gate Operation:

Number of gates operating at either

Open, Closed, or Full Tide Open

Flashboard Status : In, Out, or Modified In

Boat Lock Status : Open or Closed

Coordinated Operation Agreement Delta Status:

(Note: below label begins on October 1, 2013)

c = excess Delta conditions

b = balanced Delta conditions

r = excess Delta conditions with restrictions:

* NDOI, Rio Vista & Vernalis Flows:

- Monthly average is progressive daily mean.

- 7 day average is progressive daily mean for the first six days of the month.

Delta Water Quality Conditions

Date	Antioch Tides		Net Delta Outflow Index cfs	Martinez mdEC	Port Chicago		Mallard mdEC	Chippis Island		Collinsville	
	High	Half			mdEC	14dm		mdEC	14dm	mdEC	14dm
10/07/2013	6.13	4.10	3,522	27.82	20.04	17.11	11.63	11.34	9.09	6.97	5.33
10/08/2013	6.31	4.20	3,865	28.75	20.52	17.38	12.36	12.13	9.34	7.87	5.54
10/09/2013	6.47	4.43	4,189	29.86	22.19	17.77	13.47	13.34	9.65	8.27	5.77
10/10/2013	6.28	4.41	4,135	29.23	21.27	18.23	12.95	12.77	10.00	7.80	5.98
10/11/2013	5.98	4.22	3,949	28.16	21.10	18.65	12.72	12.52	10.38	7.40	6.20
10/12/2013	5.92	4.18	3,762	28.27	20.77	19.06	12.62	12.41	10.71	8.16	6.49
10/13/2013	5.58	4.02	3,618	27.76	19.67	19.27	12.17	11.93	10.93	7.57	6.69
10/14/2013	5.37	3.79	4,033	27.41	19.61	19.46	11.72	11.44	11.09	7.30	6.84
10/15/2013	5.50	3.88	3,671	28.01	19.89	19.61	11.95	11.68	11.23	7.35	6.98
10/16/2013	5.62	3.92	3,635	28.99	20.68	19.80	12.61	12.40	11.44	8.09	7.14
10/17/2013	5.90	4.01	3,786	29.17	21.26	20.06	13.16	13.00	11.71	8.59	7.33
10/18/2013	6.05	4.16	3,628	29.26	21.87	20.44	13.70	13.59	12.06	9.52	7.59
10/19/2013	6.10	4.15	3,731	29.21	20.86	20.62	13.73	13.62	12.31	9.41	7.87
10/20/2013	6.12	4.21	3,365	28.95	22.14	20.85	14.08	14.01	12.58	9.96	8.16
10/21/2013	6.12	4.27	3,163	29.25	22.18	21.00	14.66	14.65	12.82	10.20	8.39
10/22/2013	5.97	4.20	3,033	28.07	20.96	21.03	13.04	12.87	12.87	8.84	8.46
10/23/2013	6.06	4.34	4,176	29.73	22.41	21.05	14.78	14.77	12.97	10.33	8.61
10/24/2013	5.91	4.47	3,922	30.27	22.55	21.14	15.64	15.73	13.19	10.86	8.83
10/25/2013	5.38	4.20	4,533	28.70	20.49	21.09	13.61	13.49	13.26	9.13	8.95
10/26/2013	5.17	4.03	5,480	26.73	19.65	21.01	11.70	11.41	13.18	7.93	8.93
10/27/2013	5.85	4.39	5,398	29.47	22.04	21.18	14.30	14.25	13.35	9.42	9.06
10/28/2013	5.60	4.33	4,390	30.88	22.15	21.37	15.02	15.04	13.61	9.88	9.25
10/29/2013	5.53	4.01	7,063	27.36	20.49	21.41	13.00	12.83	13.69	8.16	9.31
10/30/2013	5.55	3.89	6,134	27.84	15.26	21.02	12.72	12.52	13.70	8.31	9.32
10/31/2013	5.63	3.85	4,600	27.87	18.56	20.83	12.67	12.47	13.66	8.12	9.29
11/01/2013	5.73	3.85	5,822	28.00	20.25	20.71	12.75	12.56	13.59	8.18	9.19
11/02/2013	6.20	4.14	5,376	28.64	21.44	20.75	13.82	13.72	13.59	9.49	9.20
11/03/2013	6.22	4.09	5,304	28.75	20.69	20.65	13.64	13.53	13.56	9.39	9.16
11/04/2013	6.40	4.12	5,088	28.44	19.82	20.48	13.70	13.59	13.48	9.69	9.12
11/05/2013	6.25	4.02	4,851	28.69	19.75	20.39	13.55	13.42	13.52	9.01	9.14

Antioch Tides measured in feet above mean sea level.

Net Delta Outflow Index calculated from equation as specified in D-1641, revised June 1995.

Chippis Island EC calculated from measurements recorded at Mallard Slough.

Electrical Conductivity (EC) units: milliSiemens per Centimeter

md : mean daily

14dm : fourteen day running mean

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e - estimated value

Delta Water Quality Conditions

Date	Antioch		Jersey Point		Emmaton		Cache Slough	Good Year Slough	Sunrise Club	Volanti Slough	Beldon Landing	Collinsville
	mdEC	14mdEC	mdEC	14mdEC	mdEC	14mdEC	mdEC	mhtEC	mhtEC	mhtEC	mhtEC	mhtEC
10/07/2013	3.66	2.76	0.91	0.87	1.48		NC 0.44	16.49	12.98	15.21	16.41	8.38
10/08/2013	4.19	2.87	0.98	0.87	1.67		NC 0.43	16.46	12.87	15.46	16.73	9.39
10/09/2013	4.84	3.00	1.13	0.88	1.95		NC 0.42	16.63	13.50	16.18	16.98	9.96
10/10/2013	4.83	3.16	1.20	0.90	1.85	1.02	0.41	16.85	13.98	16.84	17.29	9.76
10/11/2013	4.45	3.31	1.04	0.91	1.75	1.10	0.44	17.15	14.01	16.79	16.94	8.37
10/12/2013	4.27	3.44	1.04	0.93	1.72	1.18	0.44	17.35	14.14	16.95	17.47	9.31
10/13/2013	4.21	3.55	1.02	0.94	1.53	1.24	0.46	17.50	14.45	16.80	17.67	8.71
10/14/2013	3.84	3.63	0.97	0.95	1.47	1.30	0.49	17.64	14.48	16.97	17.75	8.42
10/15/2013	4.07	3.71	0.95	0.95	1.57	1.35	0.50	17.76	14.58	16.86	17.96	9.53
10/16/2013	4.52	3.84	1.03	0.97	2.03	1.45	0.53	17.79	14.75	16.96	18.05	9.45
10/17/2013	4.84	3.99	1.10	0.99	2.26	1.56	0.56	17.85	14.85	17.30	17.73	10.38
10/18/2013	5.45	4.22	1.33	1.03	2.40	1.70	0.56	17.94	15.00	17.72	17.65	10.97
10/19/2013	5.54	4.42	1.35	1.06	2.55	1.81	0.54	18.06	15.00	17.42	18.05	10.77
10/20/2013	5.68	4.60	1.41	1.10	2.82	1.93	0.52	18.25	15.08	17.49	18.18	10.77
10/21/2013	5.73	4.75	1.43	1.14	2.99	2.04	0.51	18.42	15.11	17.69	18.37	11.40
10/22/2013	4.82	4.79	1.18	1.16	2.25	2.08	0.54	18.55	15.09	17.59	18.50	10.70
10/23/2013	5.94	4.87	1.67	1.19	2.94	2.15	0.65	18.68	15.11	17.28	18.45	11.50
10/24/2013	5.98	4.95	1.73	1.23	3.22	2.25	0.70	18.78	15.13	17.78	18.43	12.17
10/25/2013	5.19	5.00	1.46	1.26	1.92	2.26	0.79	18.86	15.10	17.92	18.28	10.32
10/26/2013	4.43	5.02	1.34	1.28	1.81	2.27	0.75	18.99	14.95	17.90	18.76	9.32
10/27/2013	5.74	5.13	1.54	1.32	3.02	2.37	0.73	19.13	15.05	17.98	19.17	12.38
10/28/2013	6.16	5.29	1.59	1.36	2.97	2.48	0.76	19.15	15.05	18.08	18.61	10.83
10/29/2013	5.10	5.36	1.25	1.39	2.04	2.52	0.78	19.20	14.95	17.84	17.94	10.26
10/30/2013	4.75	5.38	1.14	1.39	1.97	2.51	0.77	19.35	14.89	17.60	17.78	9.73
10/31/2013	4.64	5.37	1.14	1.40	1.77	2.48	0.76	16.09	e	17.87	17.99	10.20
11/01/2013	4.69	5.31	1.14	1.38	1.84	2.44	0.74	13.30	14.96	17.59	16.90	9.88
11/02/2013	5.20	5.29	1.28	1.38	2.40	2.43	0.74	13.58	14.68	16.88	15.72	11.41
11/03/2013	5.18	5.25	1.24	1.37	1.80	2.35	0.74	15.05	14.26	16.02	13.72	10.85
11/04/2013	4.90	5.19	1.28	1.35	2.10	2.29	0.72	18.86	13.93	15.71	14.41	11.34
11/05/2013	5.09	5.21	1.32	1.36	2.19	2.28	0.67	19.70	13.84	15.97	14.27	10.78

Electrical Conductivity (EC) units: milliSiemens per Centimeter

Chloride (Cl) units: milligrams per liter

mht : mean high tides

md : mean daily

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e : estimated value

Delta Water Quality Conditions

Date	Bethel Island mdEC	Farrar Park mdEC	Holland Tract mdEC	Bacon Island mdEC	Contra Costa mdEC	Clifton Court mdEC	Tracy Pumping Plant mdEC	Antioch mdCI	Bacon Island mdCI	Contra Costa mdCI	Delta Status
10/07/2013	0.64	0.81	0.53	0.53	0.80	0.51	0.50	1,094	99	188	b
10/08/2013	0.64	0.80	0.53	0.51	0.77	0.50	0.50	1,264	95	165	b
10/09/2013	0.65	0.81	0.52	0.50	0.76	0.50	0.50	1,471	93	168	b
10/10/2013	0.65	0.81	0.50	0.50	0.73	0.50	0.50	1,469	92	168	b
10/11/2013	0.65	0.80	0.50	0.49	0.70	0.50	0.51	1,347	91	158	b
10/12/2013	0.65	0.80	0.50	0.49	0.69	0.51	0.51	1,290	90	153	b
10/13/2013	0.65	0.79	0.49	0.49	0.67	0.50	0.51	1,271	90	149	b
10/14/2013	0.65	0.78	0.49	0.49	0.64	0.49	0.51	1,152	90	147	b
10/15/2013	0.64	0.78	NR	0.49	0.64	0.50	0.51	1,225	89	137	b
10/16/2013	0.64	0.79	NR	0.49	0.63	0.49	0.51	1,369	89	131	b
10/17/2013	0.65	0.80	NR	0.48	0.62	0.48	0.52	1,471	88	129	b
10/18/2013	0.67	0.82	0.55	0.48	0.61	0.48	0.52	1,665	88	128	b
10/19/2013	0.68	0.83	0.55	0.48	0.59	0.45	0.53	1,694	88	128 e	b
10/20/2013	0.70	0.86	0.55	0.48	0.59	0.46	0.52	1,739	88	128 e	b
10/21/2013	0.71	0.87	0.56	0.49	0.59	0.46	0.52	1,754	89	121	b
10/22/2013	0.70	0.84	0.55	0.49	0.59	0.46	0.55	1,465	89	121	b
10/23/2013	0.74	0.93	0.58	0.49	0.58	0.46	0.52	1,821	90	118	b
10/24/2013	0.77	0.96	0.57	0.50	0.57	0.48	0.51	1,835	91	115	b
10/25/2013	0.76	0.89	0.56	0.50	0.54	0.47	0.53	1,583	91	114	b
10/26/2013	0.75	0.86	0.55	0.50	0.54	0.49	0.59	1,342	91	111	b
10/27/2013	0.74	0.90	0.57	0.50	0.54	0.51	0.59	1,758	92	109	b
10/28/2013	0.77	0.92	0.58	0.50	0.54	0.53	0.58	1,891	93	102	b
10/29/2013	0.77	0.86	0.56	0.50	0.52	0.49	0.67	1,553	92	105	b
10/30/2013	0.76	0.86	0.58	0.50	0.52	0.43	0.52	1,441	93	104	b
10/31/2013	0.76	0.86	0.59	0.51	0.52	0.42	0.42	1,406	94	102	b
11/01/2013	0.76	0.86	0.60	0.51	0.51	0.43	0.46	1,424	96	109	b
11/02/2013	0.75	0.88	0.61	0.53	0.52	0.43	0.46	1,586	99	109 e	b
11/03/2013	0.76	0.87	0.63	0.54	0.53	0.44	0.46	1,579	102	109 e	b
11/04/2013	0.74	0.86	0.64	0.55	0.53	0.45	0.47	1,491	106	103	b
11/05/2013	0.74	0.86	0.64	0.57	0.52	0.46	0.49	1,551	110	101	b

Electrical Conductivity (EC) units: milliSiemens per Centimeter

Chloride (CI) units: milligrams per liter

md : mean daily

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e : estimated value

Antioch and Bacon Island mdCI are calculated from the respective mdEC values.

Coordinated Operation Agreement Delta Status:

(Note: below label begins on October 1, 2013)

c = excess Delta conditions

b = balanced Delta conditions

r = excess Delta conditions with restrictions.

Delta Water Quality Conditions

South Delta Stations

Date	Vernalis		Brandt Bridge		Old River Near Tracy		Old River Near Middle River	
	md EC	30 day avg	md EC	30 day avg	md EC	30 day avg	md EC	30 day avg
10/07/2013	0.61	0.51	0.68	0.57	0.74	0.78	0.67	0.56
10/08/2013	0.64	0.51	0.66	0.57	0.81	0.78	0.65	0.56
10/09/2013	0.58	0.51	0.66	0.57	0.86	0.78	0.66	0.56
10/10/2013	0.61	0.51	0.70	0.57	0.88	0.78	0.69	0.56
10/11/2013	0.66	0.52	0.71	0.57	0.90	0.79	0.69	0.56
10/12/2013	0.61	0.52	0.68	0.57	0.89	0.79	0.68	0.57
10/13/2013	0.65	0.53	0.70	0.58	0.86	0.79	0.71	0.57
10/14/2013	0.67	0.53	0.74	0.58	0.86	0.79	0.74	0.57
10/15/2013	0.62	0.53	0.71	0.58	0.86	0.79	0.71	0.58
10/16/2013	0.51	0.53	0.75	0.58	0.89	0.79	0.74	0.58
10/17/2013	0.52	0.53	0.75	0.59	0.91	0.79	0.72	0.59
10/18/2013	0.54	0.52	0.62	0.59	0.90	0.79	0.60	0.59
10/19/2013	0.63	0.53	0.59	0.59	0.90	0.79	0.58	0.59
10/20/2013	0.63	0.53	0.60	0.59	0.88	0.79	0.60	0.58
10/21/2013	0.58	0.52	0.68	0.59	0.83	0.79	0.68	0.58
10/22/2013	0.57	0.52	0.71	0.59	0.80	0.78	0.70	0.59
10/23/2013	0.55	0.53	0.67	0.59	0.80	0.78	0.67	0.59
10/24/2013	0.47	0.53	0.65	0.59	0.84	0.78	0.65	0.58
10/25/2013	0.31	0.53	0.62	0.59	0.84	0.78	0.61	0.59
10/26/2013	0.29	0.53	0.40	0.59	0.81	0.78	0.39	0.59
10/27/2013	0.30	0.53	0.32	0.59	0.78	0.78	0.31	0.59
10/28/2013	0.25	0.53	0.33	0.59	0.62	0.78	0.33	0.59
10/29/2013	0.22	0.53	0.31	0.59	0.46	0.78	0.30	0.59
10/30/2013	0.24	0.52	0.27	0.59	0.48	0.77	0.27	0.58
10/31/2013	0.28	0.51	0.28	0.59	0.51	0.77	0.29	0.58
11/01/2013	0.35	0.51	0.31	0.58	0.59	0.77	0.34	0.58
11/02/2013	0.42	0.50	0.34	0.58	0.66	0.77	0.40	0.57
11/03/2013	0.49	0.50	0.38	0.57	0.63	0.77	0.46	0.57
11/04/2013	0.55	0.50	0.43	0.56	0.59	0.77	0.52	0.57
11/05/2013	0.60	0.50	0.48	0.56	0.62	0.77	0.58	0.58

Electrical Conductivity (EC) units: milliSiemens per Centimeter

md : mean daily

NR : No Record

NC : Average not computed due to insufficient data

BR : Below Rating

e : estimated value