Table Cl-1. Number of years Bay-Delta Water Quality Control Plan 150 mg/L objective exceeded at Contra Costa Canal Pumping Plant #1 for existing conditions, No Action Alternative ELT, and Alternatives 2D, 4A, and 5A ELT.

Scenario	Total number of Years	# of Years when standards are violated	% of Years when standards are violated
Existing Conditions	15	1	6.7
No Action Alternative ELT	15	0	0
Alternative 2D ELT	15	0	0
Alternative 4 H3 ELT	15	0	0
Alternative 4 H4 ELT	15	0	0
Alternative 5A ELT	15	0	0

Table Cl-2. Period average chloride concentrations and frequency of exceedance of objectives for existing conditions, the No Action Alternative ELT, and Alternatives 2D, 4A, and 5A ELT. Calculation of chloride concentrations was based on a mass balance approach.

Chloride			Period Average Concentration mg/L						Lowest Applicable Human Health Criterion/Objective (250 mg/L)[b] Frequency of Criterion/Objective Exceedance (%)					
	Location	Period [a]	Ex. Cond.	No Act. ELT	Alt 2D ELT ELT	Alt 4A H3 ELT	Alt 4A H4 ELT	Alt 5A ELT	Ex. Cond.	No Act. ELT	Alt 2D ELT ELT	Alt 4A H3 ELT	Alt 4A H4 ELT	Alt 5A ELT
Delta Interior	Moke. R. (SF) at Staten Island	ALL	16	16	20	20	20	18	0	0	0	0	0	0
		DROUGHT	17	17	20	20	20	20	0	0	0	0	0	0
	SJR at Buckley Cove	ALL	83	78	78	78	78	78	0	0	0	0	0	0
		DROUGHT	87	77	78	79	78	77	0	0	0	0	0	0
	Franks Tract	ALL	174	159	128	141	133	146	34	24	18	19	15	22
		DROUGHT	213	210	172	182	172	189	47	40	37	37	28	38
	Old R. at Rock Slough	ALL	152	141	118	128	122	132	28	19	13	13	11	18
		DROUGHT	180	178	150	158	150	165	42	32	28	28	23	33
Western Delta	Sac. R. at Emmaton	ALL	369	370	334	376	379	356	44	41	39	38	38	40
		DROUGHT	516	565	522	545	539	537	55	60	57	57	55	57
	SJR at Antioch	ALL	1087	1015	878	976	966	951	66	70	65	65	65	68
		DROUGHT	1401	1405	1264	1317	1294	1306	82	85	82	82	82	82
	Sac. R. at Mallard Island	ALL	2552	2459	2328	2466	2448	2399	85	86	86	86	86	86
		DROUGHT	3234	3201	3057	3132	3110	3090	100	100	100	100	100	100
Major Diversions (Pumping Stations)	NBA at Barker Slough PP	ALL	17	17	11	11	11	11	0	0	0	0	0	0
		DROUGHT	18	18	11	11	11	11	0	0	0	0	0	0
	Contra Costa PP #1	ALL	146	136	122	130	122	131	24	17	13	13	12	17
		DROUGHT	176	172	149	157	147	163	37	28	22	23	22	30
	Banks PP	ALL	123	116	67	74	70	91	4	6	2	2	2	4
		DROUGHT	144	139	99	103	93	117	7	12	2	2	2	5
	Jones PP	ALL	117	110	67	74	68	92	1	3	0	0	0	1
		DROUGH	133	129	95	98	93	113	0	5	0	0	0	2

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Notes:
[a] ALL: Water years 1976-1991 represent the 16-year period modeled using DSM2. DROUGHT: Represents a 5 consecutive year (water years 1987-1991) drought period consisting of dry and critical water year types (as defined by the Sacramento Valley 40-30-30 water year hydrologic classification index).
[b] State maximum contaminant level (MCL) incorporated by reference in the Region 2 and 5 Basin Plans.

Table Cl-3. Period average chloride concentrations and frequency of exceedance of objectives for existing condition, the No Action Alternative ELT, and Alternatives 2D, 4A, and 5A ELT. Calculation of chloride concentrations was based on EC-chloride relationship.

Chloride			Period Average Concentration mg/L						Lowest Applicable Human Health Criterion/Objective (250 mg/L)[b] Frequency of Criterion/Objective Exceedance (%)					
	Location	Period [a]	Ex. Cond.	No Act. ELT	Alt 2D ELT ELT	Alt 4A H3 ELT	Alt 4A H4 ELT	Alt 5A ELT	Ex. Cond.	No Act. ELT	Alt 2D ELT ELT	Alt 4A H3 ELT	Alt 4A H4 ELT	Alt 5A ELT
Delta Interior	Moke. R. (SF) at Staten Island	ALL	18	18	20	20	20	20	0	0	0	0	0	0
		DROUGHT	19	19	21	21	21	20	0	0	0	0	0	0
	SJR at Buckley Cove	ALL	116	101	103	103	103	101	0	0	0	0	0	0
		DROUGHT	155	130	135	135	136	132	0	0	0	0	0	0
	Franks Tract	ALL	120	110	89	89	87	101	14	14	6	6	6	9
		DROUGHT	153	153	128	128	125	138	22	23	12	12	13	17
	Old R. at Rock Slough	ALL	108	99	86	85	85	94	4	6	2	2	4	5
		DROUGHT	136	135	118	118	117	125	7	13	2	2	7	8
Western Delta	Sac. R. at Emmaton	ALL	258	261	236	237	242	252	36	32	32	32	33	31
		DROUGHT	364	407	380	382	384	390	50	53	52	52	52	53
	SJR at Antioch	ALL	757	708	616	615	616	670	61	63	59	59	56	60
		DROUGHT	1002	1025	929	931	922	960	80	80	77	77	75	75
	Sac. R. at Mallard Island	ALL	1766	1692	1597	1595	1588	1666	77	80	82	82	81	81
		DROUGHT	2346	2350	2255	2257	2240	2286	98	98	98	98	98	98
Major Diversions (Pumping	NBA at Barker Slough PP	ALL	19	19	16	16	16	16	0	0	0	0	0	0
		DROUGHT	19	19	16	16	16	16	0	0	0	0	0	0
	Contra Costa PP #1	ALL	120	111	101	98	98	106	5	7	4	2	3	6
		DROUGH	143	140	124	124	121	132	8	12	3	3	3	10

Stations)		T												
	Banks PP	ALL	102	94	64	66	62	77	1	2	0	0	0	0
		DROUGHT	134	128	95	96	86	110	2	2	0	0	0	0
	Jones PP	ALL	109	102	70	71	71	87	0	0	0	0	0	1
		DROUGHT	145	138	101	100	102	120	0	0	0	0	0	0

Notes:
[a] ALL: Water years 1976-1991 represent the 16-year period modeled using DSM2. DROUGHT: Represents a 5 consecutive year (water years 1987-1991) drought period consisting of dry and critical water year types (as defined by the Sacramento Valley 40-30-30 water year hydrologic classification index).
[b] State maximum contaminant level (MCL) incorporated by reference in the Region 2 and 5 Basin Plans.

Table Cl-4. Period average change in chloride concentrations (mg/L) for the No Action Alternative ELT, relative to existing conditions. Calculation of chloride concentrations was based on a mass balance approach.

Chloride			OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	Annual Avg. Change
No Act. ELT	Location	Period [a]	Ex. Cond.	Ex. Cond.	Ex. Cond.	Ex. Cond.	Ex. Cond.	Ex. Cond.	Ex. Cond.	Ex. Cond.	Ex. Cond.	Ex. Cond.	Ex. Cond.	Ex. Cond.	Ex. Cond.
Delta Interior	Moke. R. (SF) at Staten Island	ALL	0	0	0	0	0	0	0	0	0	0	1	0	0
			(1%)	(1%)	(-1%)	(-1%)	(-2%)	(-0%)	(-0%)	(-1%)	(-1%)	(-2%)	(4%)	(1%)	(-0%)
		DROUGHT	0	0	0	0	-1	-1	0	0	0	0	2	0	0
			(0%)	(1%)	(-2%)	(-1%)	(-3%)	(-4%)	(-3%)	(-2%)	(-3%)	(2%)	(12%)	(3%)	(-0%)
	SJR at Buckley Cove	ALL	-2	-1	-6	-5	-3	-3	-4	-4	-9	-10	-11	-4	-5
			(-3%)	(-2%)	(-8%)	(-6%)	(-4%)	(-4%)	(-5%)	(-5%)	(-10%)	(-12%)	(-12%)	(-5%)	(-7%)
		DROUGHT	-3	-3	-9	-9	-6	-6	-9	-9	-16	-15	-21	-7	-9
			(-4%)	(-4%)	(-11%)	(-10%)	(-7%)	(-7%)	(-10%)	(-10%)	(-18%)	(-17%)	(-22%)	(-8%)	(-11%)
	Franks Tract	ALL	-40	-54	-34	8	2	2	1	1	1	-26	-18	-20	-15
			(-14%)	(-14%)	(-12%)	(5%)	(3%)	(5%)	(3%)	(2%)	(3%)	(-14%)	(-8%)	(-7%)	(-8%)
		DROUGHT	5	8	-11	19	11	5	1	4	10	-50	-50	11	-3
			(2%)	(2%)	(-3%)	(9%)	(17%)	(17%)	(6%)	(14%)	(19%)	(-16%)	(-16%)	(3%)	(-1%)
	Old R. at Rock Slough	ALL	-30	-40	-31	10	2	1	1	0	1	-20	-17	-13	-11
			(-12%)	(-13%)	(-12%)	(6%)	(3%)	(3%)	(2%)	(1%)	(1%)	(-13%)	(-9%)	(-5%)	(-7%)
		DROUGHT	3	17	-12	23	8	3	1	2	7	-39	-43	4	-2
			(1%)	(5%)	(-4%)	(12%)	(11%)	(7%)	(3%)	(6%)	(16%)	(-16%)	(-16%)	(1%)	(-1%)
Western Delta	Sac. R. at Emmaton	ALL	-29	-77	10	11	8	8	6	2	19	30	70	-48	1
			(-3%)	(-9%)	(2%)	(7%)	(12%)	(29%)	(16%)	(2%)	(9%)	(9%)	(15%)	(-6%)	(0%)
		DROUGHT	-2	-29	59	45	32	15	8	33	40	59	156	173	49
			(-0%)	(-2%)	(8%)	(20%)	(30%)	(34%)	(17%)	(19%)	(13%)	(13%)	(26%)	(15%)	(10%)
	SJR at Antioch	ALL	-324	-370	-73	14	25	27	18	5	45	-14	43	-269	-73
			(-15%)	(-15%)	(-5%)	(2%)	(9%)	(24%)	(13%)	(1%)	(8%)	(-1%)	(3%)	(-13%)	(-7%)
		DROUGHT	-178	-325	-16	85	98	46	23	49	63	-12	70	144	4
			(-7%)	(-11%)	(-1%)	(10%)	(24%)	(26%)	(11%)	(9%)	(8%)	(-1%)	(4%)	(6%)	(0%)
	Sac. R. at Mallard Island	ALL	-450	-489	-84	4	51	62	41	26	111	-13	92	-467	-93
			(-10%)	(-10%)	(-3%)	(0%)	(5%)	(14%)	(5%)	(2%)	(6%)	(-0%)	(3%)	(-11%)	(-4%)
		DROUGHT	-422	-567	-51	62	167	72	43	35	47	-23	130	118	-33
			(-8%)	(-9%)	(-1%)	(3%)	(10%)	(10%)	(4%)	(2%)	(2%)	(-1%)	(3%)	(2%)	(-1%)
Major Diversions (Pumping Stations)	NBA at Barker Slough PP	ALL	-1	0	0	0	2	1	-1	0	-2	-2	-1	-1	0
			(-8%)	(1%)	(1%)	(2%)	(11%)	(4%)	(-5%)	(-2%)	(-8%)	(-9%)	(-7%)	(-4%)	(-2%)
		DROUGHT	-1	2	1	0	1	1	1	1	-2	-1	0	0	0
			(-7%)	(11%)	(6%)	(2%)	(4%)	(7%)	(6%)	(4%)	(-8%)	(-6%)	(-2%)	(-1%)	(0%)
	Contra Costa PP #1	ALL	-40	-25	-28	-15	18	3	0	1	0	-6	-30	-1	-10
			(-16%)	(-10%)	(-12%)	(-8%)	(23%)	(5%)	(-0%)	(1%)	(1%)	(-5%)	(-15%)	(-0%)	(-7%)
		DROUGHT	-37	23	5	18	15	5	1	2	6	-14	-65	-18	-5
			(-12%)	(8%)	(2%)	(8%)	(18%)	(10%)	(1%)	(6%)	(14%)	(-7%)	(-21%)	(-7%)	(-3%)
	Banks PP	ALL	-17	-21	-21	4	5	1	1	0	0	-13	-21	-8	-8
			(-11%)	(-11%)	(-11%)	(3%)	(6%)	(1%)	(1%)	(0%)	(0%)	(-13%)	(-14%)	(-5%)	(-6%)
		DROUGHT	-8	14	-11	18	11	0	0	0	1	-21	-48	-11	-5
			(-4%)	(6%)	(-5%)	(10%)	(12%)	(-0%)	(-1%)	(0%)	(2%)	(-14%)	(-21%)	(-5%)	(-3%)
	Jones PP	ALL	-12	-15	-14	2	1	0	0	0	1	-13	-17	-9	-6
			(-8%)	(-8%)	(-9%)	(1%)	(1%)	(0%)	(0%)	(0%)	(1%)	(-12%)	(-12%)	(-6%)	(-5%)
		DROUGHT	4	18	-6	8	-1	-1	0	1	3	-24	-40	-6	-4
			(2%)	(9%)	(-3%)	(6%)	(-1%)	(-2%)	(-0%)	(1%)	(5%)	(-15%)	(-19%)	(-3%)	(-3%)

[a] ALL: Water years 1976-1991 represent the 16-year period modeled using DSM2. DROUGHT: Represents a 5 consecutive year (water years 1987-1991) drought period consisting of dry and critical water year types (as defined by the Sacramento Valley 40-30-30 water year hydrologic classification index).

Table Cl-5. Period average change in chloride concentrations (mg/L) for the No Action Alternative ELT relative to existing conditions. Calculation of chloride concentrations was based on EC-chloride relationship.

Chloride			OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	Avg. Chang
No Act. ELT	Location	Period [a]	Ex. Cond.	Ex. Cond.	Ex. Cond.	Ex. Cond.	Ex. Cond.	Ex. Cond.	Ex. Cond.	Ex. Cond.	Ex. Cond.	Ex. Cond.	Ex. Cond.	Ex. Cond.	Ex. Cond.
Delta Interior	Moke. R. (SF) at Staten Island	ALL	0	0	0	0	0	0	0	0	0	0	0	0	0
			(0%)	(0%)	(-1%)	(-1%)	(-1%)	(-0%)	(0%)	(-0%)	(-0%)	(-0%)	(1%)	(1%)	(-0%)
		DROUGHT	0	0	0	0	0	-1	0	0	0	0	0	0	0
			(-0%)	(0%)	(-1%)	(-1%)	(-2%)	(-2%)	(-1%)	(-1%)	(-1%)	(0%)	(2%)	(1%)	(-1%)
	SJR at Buckley Cove	ALL	-8	-11	-25	-25	-19	-15	-12	-11	-10	-14	-17	-11	-15
			(-8%)	(-10%)	(-18%)	(-16%)	(-13%)	(-11%)	(-12%)	(-13%)	(-10%)	(-13%)	(-16%)	(-11%)	(-13%)
		DROUGHT	-14	-18	-35	-39	-26	-21	-20	-18	-30	-26	-34	-16	-25
			(-11%)	(-13%)	(-21%)	(-19%)	(-12%)	(-10%)	(-12%)	(-14%)	(-23%)	(-23%)	(-28%)	(-12%)	(-16%)
	Franks Tract	ALL	-20	-28	-24	-3	-2	-1	0	-1	0	-18	-13	-11	-10
			(-10%)	(-12%)	(-12%)	(-3%)	(-4%)	(-2%)	(-1%)	(-4%)	(1%)	(-14%)	(-8%)	(-6%)	(-8%)
		DROUGHT	12	15	-6	9	10	4	-1	2	9	-31	-33	9	0
			(5%)	(6%)	(-2%)	(5%)	(14%)	(10%)	(-2%)	(7%)	(21%)	(-15%)	(-15%)	(4%)	(-0%)
	Old R. at Rock Slough	ALL	-14	-20	-20	-2	-5	-2	-3	-3	0	-14	-12	-7	-8
			(-9%)	(-10%)	(-11%)	(-1%)	(-6%)	(-4%)	(-5%)	(-7%)	(-1%)	(-14%)	(-9%)	(-5%)	(-8%)
		DROUGHT	9	18	-5	12	3	-1	-3	0	5	-24	-28	4	-1
			(5%)	(8%)	(-2%)	(7%)	(3%)	(-1%)	(-5%)	(0%)	(14%)	(-15%)	(-15%)	(2%)	(-1%)
Western Delta	Sac. R. at Emmaton	ALL	-14	-39	2	3	4	8	5	1	12	25	52	-20	3
			(-2%)	(-7%)	(1%)	(2%)	(6%)	(24%)	(15%)	(1%)	(7%)	(11%)	(16%)	(-4%)	(1%)
		DROUGHT	16	3	40	37	29	18	8	29	43	51	120	131	44
			(2%)	(0%)	(8%)	(19%)	(26%)	(40%)	(22%)	(25%)	(17%)	(15%)	(27%)	(17%)	(12%)
	SJR at Antioch	ALL	-218	-226	-86	-10	11	28	19	6	34	0	29	-165	-48
			(-15%)	(-15%)	(-8%)	(-2%)	(4%)	(23%)	(17%)	(2%)	(7%)	(-0%)	(3%)	(-11%)	(-6%)
		DROUGHT	-88	-165	-43	63	86	58	26	55	78	17	61	125	23
			(-5%)	(-9%)	(-3%)	(9%)	(22%)	(36%)	(18%)	(15%)	(11%)	(1%)	(5%)	(7%)	(2%)
	Sac. R. at Mallard Island	ALL	-411	-385	-158	-23	27	80	61	37	106	25	70	-322	-74
			(-13%)	(-13%)	(-7%)	(-2%)	(3%)	(18%)	(12%)	(4%)	(7%)	(1%)	(3%)	(-11%)	(-4%)
		DROUGHT	-324	-386	-131	45	156	127	77	95	109	31	119	137	5
			(-9%)	(-10%)	(-4%)	(2%)	(11%)	(19%)	(11%)	(7%)	(5%)	(1%)	(4%)	(4%)	(0%)
Major Diversions (Pumping Stations)	NBA at Barker Slough PP	ALL	0	0	0	0	1	0	-1	0	0	0	0	0	0
			(-3%)	(-1%)	(-0%)	(1%)	(7%)	(2%)	(-2%)	(-1%)	(-2%)	(-3%)	(-2%)	(-1%)	(-0%)
		DROUGHT	0	0	0	0	0	1	1	0	0	0	0	0	0
			(-2%)	(2%)	(1%)	(1%)	(2%)	(4%)	(4%)	(3%)	(-3%)	(-2%)	(-0%)	(-0%)	(1%)
	Contra Costa PP #1	ALL	-24	-15	-19	-19	16	-15	-8	-2	-3	-5	-21	-3	-10
			(-15%)	(-9%)	(-10%)	(-10%)	(15%)	(-16%)	(-10%)	(-3%)	(-6%)	(-6%)	(-15%)	(-2%)	(-8%)
		DROUGHT	-19	18	5	8	8	1	-5	4	3	-9	-43	-11	-3
			(-10%)	(10%)	(2%)	(4%)	(8%)	(1%)	(-6%)	(7%)	(7%)	(-7%)	(-19%)	(-7%)	(-2%)
	Banks PP	ALL	-10	-11	-16	-6	-4	-5	-5	-5	-2	-7	-14	-5	-8
			(-9%)	(-9%)	(-11%)	(-4%)	(-4%)	(-6%)	(-6%)	(-7%)	(-3%)	(-10%)	(-14%)	(-5%)	(-7%)
		DROUGHT	-3	12	-10	8	1	-11	-10	-6	-2	-12	-31	-6	-6
			(-2%)	(8%)	(-5%)	(5%)	(1%)	(-8%)	(-8%)	(-6%)	(-3%)	(-12%)	(-20%)	(-5%)	(-4%)
	Jones PP	ALL	-6	-8	-15	-12	-11	-6	-5	-4	4	-4	-10	-4	-7
			(-6%)	(-7%)	(-10%)	(-8%)	(-9%)	(-5%)	(-5%)	(-6%)	(6%)	(-5%)	(-10%)	(-4%)	(-6%)
		DROUGHT	3	13	-11	-12	-19	-10	-5	-4	1	-11	-22	-4	-7
			(3%)	(9%)	(-6%)	(-6%)	(-10%)	(-5%)	(-3%)	(-4%)	(1%)	(-10%)	(-15%)	(-3%)	(-5%)

[a] ALL: Water years 1976-1991 represent the 16-year period modeled using DSM2. DROUGHT: Represents a 5 consecutive year (water years 1987-1991) drought period consisting of dry and critical water year types (as defined by the Sacramento Valley 40-30-30 water year hydrologic classification index).

Table Cl-6. Period average change in chloride concentrations (mg/L) for Alternative 4A-H3 ELT relative to existing conditions and the No Action Alternative ELT. Calculation of chloride concentrations was based on a mass balance approach.

Chloride			OCT		NOV		DEC		JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		Annual Avg. Change	
Alt 4 ELT Scn H3	Location	Period [a]	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT
Delta Interior	Moke. R. (SF) at Staten Island	ALL	4	4	3	3	1	2	3	3	3	3	4	4	3	3	3	3	6	6	5	6	5	5	4	3	4	4
			(31%)	(29%)	(27%)	(25%)	(11%)	(13%)	(15%)	(16%)	(15%)	(17%)	(23%)	(24%)	(22%)	(22%)	(19%)	(20%)	(31%)	(33%)	(29%)	(32%)	(40%)	(34%)	(29%)	(28%)	(24%)	(24%)
		DROUGHT	3	3	3	3	1	1	2	2	2	2	3	4	2	2	2	3	6	7	8	8	6	4	4	3	4	4
			(26%)	(26%)	(22%)	(21%)	(8%)	(10%)	(8%)	(10%)	(6%)	(9%)	(17%)	(22%)	(12%)	(15%)	(14%)	(17%)	(35%)	(38%)	(49%)	(46%)	(43%)	(26%)	(28%)	(24%)	(21%)	(22%)
	SJR at Buckley Cove	ALL	-2	0	-2	-1	-5	1	-2	2	-2	1	-2	1	-3	1	-3	1	-7	1	-11	0	-10	1	-5	0	-5	1
			(-3%)	(0%)	(-2%)	(-1%)	(-7%)	(1%)	(-3%)	(3%)	(-3%)	(2%)	(-2%)	(2%)	(-4%)	(2%)	(-4%)	(1%)	(-8%)	(2%)	(-12%)	(-0%)	(-11%)	(1%)	(-5%)	(-0%)	(-6%)	(1%)
		DROUGHT	-3	0	-4	0	-9	0	-6	3	-4	2	-4	2	-6	3	-6	3	-13	3	-15	0	-19	2	-7	0	-8	1
			(-3%)	(0%)	(-4%)	(-1%)	(-11%)	(0%)	(-7%)	(3%)	(-5%)	(2%)	(-4%)	(3%)	(-7%)	(3%)	(-7%)	(3%)	(-15%)	(4%)	(-17%)	(0%)	(-20%)	(3%)	(-8%)	(-0%)	(-9%)	(2%)
	Franks Tract	ALL	-84	-44	-213	-159	-112	-78	-39	-47	-5	-7	8	6	8	6	5	4	7	5	-51	-25	-38	-20	-44	-24	-47	-32
			(-29%)	(-17%)	(-56%)	(-49%)	(-38%)	(-30%)	(-25%)	(-28%)	(-8%)	(-11%)	(22%)	(15%)	(20%)	(16%)	(12%)	(9%)	(12%)	(9%)	(-27%)	(-15%)	(-17%)	(-10%)	(-15%)	(-9%)	(-27%)	(-20%)
		DROUGHT	-53	-59	-178	-186	-75	-63	-23	-42	-6	-17	3	-2	4	3	7	3	11	1	-120	-70	-68	-18	25	15	-39	-36
			(-15%)	(-16%)	(-41%)	(-42%)	(-20%)	(-17%)	(-11%)	(-19%)	(-10%)	(-23%)	(10%)	(-6%)	(17%)	(11%)	(23%)	(7%)	(22%)	(2%)	(-39%)	(-27%)	(-21%)	(-7%)	(7%)	(4%)	(-19%)	(-17%)
	Old R. at Rock Slough	ALL	-41	-12	-161	-121	-99	-68	-35	-45	-3	-5	7	5	2	1	0	0	8	8	-36	-16	-30	-13	-24	-11	-34	-23
			(-17%)	(-6%)	(-52%)	(-45%)	(-38%)	(-30%)	(-23%)	(-28%)	(-5%)	(-7%)	(14%)	(11%)	(4%)	(2%)	(1%)	(0%)	(15%)	(14%)	(-24%)	(-12%)	(-16%)	(-8%)	(-10%)	(-5%)	(-23%)	(-16%)
		DROUGHT	-12	-16	-130	-147	-64	-52	-15	-38	-7	-15	1	-2	0	-2	5	3	11	4	-92	-53	-62	-19	22	19	-29	-26
			(-4%)	(-5%)	(-37%)	(-40%)	(-20%)	(-17%)	(-8%)	(-18%)	(-9%)	(-18%)	(2%)	(-5%)	(-1%)	(-4%)	(14%)	(8%)	(25%)	(8%)	(-38%)	(-27%)	(-23%)	(-8%)	(8%)	(7%)	(-16%)	(-15%)
Western Delta	Sac. R. at Emmaton	ALL	-260	-251	-300	-224	-40	-50	-33	-44	-13	-21	5	-4	9	3	20	18	16	-4	71	42	137	67	-8	40	-35	-36
			(-33%)	(-31%)	(-34%)	(-27%)	(-9%)	(-11%)	(-22%)	(-27%)	(-20%)	(-28%)	(15%)	(-10%)	(24%)	(7%)	(16%)	(15%)	(7%)	(-2%)	(22%)	(12%)	(29%)	(12%)	(-1%)	(5%)	(-9%)	(-10%)
		DROUGHT	-337	-335	-358	-328	4	-55	-33	-78	-5	-37	10	-5	15	7	66	32	58	19	229	169	251	95	202	29	8	-41
			(-29%)	(-29%)	(-29%)	(-27%)	(1%)	(-7%)	(-15%)	(-29%)	(-5%)	(-26%)	(21%)	(-9%)	(31%)	(12%)	(37%)	(15%)	(19%)	(5%)	(49%)	(32%)	(42%)	(13%)	(18%)	(2%)	(2%)	(-7%)
	SJR at Antioch	ALL	-870	-546	-991	-622	-288	-215	-187	-201	-64	-89	15	-12	20	1	18	13	-3	-48	-47	-33	113	70	-252	18	-211	-139
			(-39%)	(-29%)	(-41%)	(-30%)	(-20%)	(-15%)	(-31%)	(-32%)	(-24%)	(-31%)	(13%)	(-8%)	(14%)	(1%)	(5%)	(4%)	(-0%)	(-8%)	(-4%)	(-3%)	(8%)	(5%)	(-12%)	(1%)	(-19%)	(-14%)
		DROUGHT	-843	-665	-987	-662	-247	-231	-210	-295	-61	-160	19	-26	32	9	61	12	39	-24	50	62	287	217	270	126	-132	-136
			(-31%)	(-27%)	(-32%)	(-24%)	(-12%)	(-11%)	(-25%)	(-32%)	(-15%)	(-31%)	(12%)	(-13%)	(16%)	(4%)	(11%)	(2%)	(5%)	(-3%)	(3%)	(4%)	(17%)	(12%)	(11%)	(5%)	(-9%)	(-10%)
	Sac. R. at Mallard Island	ALL	-1085	-635	-1100	-611	-360	-276	-261	-264	-76	-126	66	4	94	54	88	62	33	-78	47	59	237	144	-405	62	-227	-134
			(-23%)	(-15%)	(-22%)	(-14%)	(-11%)	(-9%)	(-16%)	(-16%)	(-8%)	(-13%)	(14%)	(1%)	(13%)	(7%)	(6%)	(4%)	(2%)	(-4%)	(2%)	(2%)	(7%)	(4%)	(-10%)	(2%)	(-9%)	(-5%)
		DROUGHT	-1135	-713	-1251	-683	-377	-327	-337	-399	-61	-228	86	14	132	89	84	49	47	0	161	184	370	240	196	78	-174	-141
			(-21%)	(-14%)	(-20%)	(-12%)	(-8%)	(-7%)	(-14%)	(-16%)	(-4%)	(-13%)	(12%)	(2%)	(12%)	(8%)	(4%)	(2%)	(2%)	(-0%)	(4%)	(5%)	(10%)	(6%)	(4%)	(2%)	(-5%)	(-4%)
Major Diversions (Pumping Stations)	NBA at Barker Slough PP	ALL	-6	-5	-4	-4	-3	-3	-4	-5	-5	-7	-5	-6	-6	-5	-6	-6	-9	-8	-11	-9	-10	-8	-7	-6	-6	-6
			(-36%)	(-31%)	(-28%)	(-29%)	(-23%)	(-24%)	(-29%)	(-31%)	(-32%)	(-39%)	(-31%)	(-34%)	(-35%)	(-31%)	(-38%)	(-36%)	(-46%)	(-41%)	(-49%)	(-44%)	(-46%)	(-42%)	(-39%)	(-36%)	(-37%)	(-36%)
		DROUGHT	-10	-8	-5	-7	-2	-3	-2	-2	-3	-4	-4	-5	-5	-6	-7	-7	-10	-8	-11	-10	-11	-11	-10	-10	-7	-7
			(-46%)	(-43%)	(-31%)	(-38%)	(-17%)	(-21%)	(-18%)	(-19%)	(-23%)	(-26%)	(-25%)	(-30%)	(-31%)	(-35%)	(-38%)	(-41%)	(-48%)	(-43%)	(-50%)	(-47%)	(-49%)	(-46%)	(-47%)	(-46%)	(-38%)	(-38%)
	Contra Costa PP #1	ALL	-33	6	-59	-35	-110	-81	-50	-35	2	-16	6	3	6	6	-2	-2	8	8	-20	-13	-41	-10	-25	-24	-26	-16
			(-14%)	(3%)	(-24%)	(-15%)	(-46%)	(-39%)	(-28%)	(-21%)	(3%)	(-16%)	(11%)	(6%)	(12%)	(12%)	(-3%)	(-3%)	(14%)	(13%)	(-16%)	(-11%)	(-20%)	(-6%)	(-12%)	(-11%)	(-18%)	(-12%)
		DROUGHT	-10	27	-30	-53	-107	-112	-24	-42	11	-4	-1	-6	-2	-3	1	-2	10	4	-53	-39	-109	-44	-8	10	-27	-22
			(-3%)	(10%)	(-10%)	(-16%)	(-35%)	(-36%)	(-11%)	(-18%)	(13%)	(-4%)	(-2%)	(-11%)	(-5%)	(-6%)	(1%)	(-4%)	(24%)	(8%)	(-29%)	(-23%)	(-35%)	(-18%)	(-3%)	(4%)	(-15%)	(-13%)
	Banks PP	ALL	-51	-33	-107	-86	-99	-78	-68	-71	-34	-39	-37	-38	-36	-36	-21	-21	-15	-15	-41	-28	-55	-33	-62	-54	-52	-44
			(-31%)	(-22%)	(-55%)	(-47%)	(-52%)	(-45%)	(-48%)	(-50%)	(-41%)	(-45%)	(-54%)	(-55%)	(-50%)	(-51%)	(-29%)	(-29%)	(-22%)	(-22%)	(-39%)	(-30%)	(-36%)	(-26%)	(-37%)	(-34%)	(-42%)	(-38%)
		DROUGHT	-14	-6	-84	-98	-81	-70	-34	-52	-9	-19	-30	-29	-25	-25	-13	-13	0	-1	-98	-78	-94	-46	-32	-21	-43	-38
			(-7%)	(-3%)	(-37%)	(-41%)	(-36%)	(-33%)	(-20%)	(-28%)	(-9%)	(-19%)	(-44%)	(-44%)	(-39%)	(-38%)	(-22%)	(-22%)	(0%)	(-2%)	(-67%)	(-62%)	(-41%)	(-26%)	(-16%)	(-11%)	(-30%)	(-27%)
	Jones PP	ALL	-50	-38	-100	-85	-53	-39	-55	-56	-41	-41	-44	-44	-37	-37	-42	-42	-33	-34	-31	-18	-33	-16	-58	-49	-48	-42
			(-33%)	(-27%)	(-54%)	(-50%)	(-35%)	(-26%)	(-48%)	(-40%)	(-51%)	(-51%)	(-57%)	(-57%)	(-48%)	(-48%)	(-53%)	(-53%)	(-48%)	(-48%)	(-26%)	(-16%)	(-23%)	(-13%)	(-37%)	(-34%)	(-41%)	(-38%)
		DROUGHT	-41	-45	-78	-96	-30	-24	-57	-65	-21	-20	-34	-33	-23	-23	-34	-35	-14	-16	-60	-37	-78	-38	-10	-4	-40	-36
			(-23%)	(-25%)	(-39%)	(-44%)	(-17%)	(-14%)	(-43%)	(-46%)	(-25%)	(-24%)	(-44%)	(-43%)	(-29%)	(-29%)	(-44%)	(-44%)	(-27%)	(-30%)	(-38%)	(-28%)	(-38%)	(-23%)	(-6%)	(-2%)	(-30%)	(-28%)

[a] ALL: Water years 1976-1991 represent the 16-year period modeled using DSM2. DROUGHT: Represents a 5 consecutive year (water years 1987-1991) drought period consisting of dry and critical water year types (as defined by the Sacramento Valley 40-30-30 water year hydrologic classification index).

Table Cl-7. Period average change in chloride concentrations (mg/L) for Alternative 4A-H3 ELT relative to existing conditions and the No Action Alternative ELT. Calculation of chloride concentrations was based on EC-chloride relationship.

Chloride			OCT		NOV		DEC		JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		Annual Avg. Change	
Alt 4 ELT Scn H3	Location	Period [a]	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT
Delta Interior	Moke. R. (SF) at Staten Island	ALL	1	1	1	1	1	1	2	3	3	3	3	3	2	2	1	1	2	2	1	1	1	1	1	1	2	2
			(8%)	(8%)	(8%)	(8%)	(4%)	(5%)	(10%)	(11%)	(10%)	(11%)	(13%)	(13%)	(11%)	(11%)	(8%)	(9%)	(10%)	(10%)	(7%)	(7%)	(8%)	(7%)	(7%)	(6%)	(9%)	(9%)
		DROUGHT	1	1	1	1	1	1	1	2	1	1	2	3	1	2	2	2	2	2	2	2	1	1	1	1	1	2
			(8%)	(8%)	(7%)	(7%)	(3%)	(4%)	(5%)	(6%)	(4%)	(5%)	(10%)	(13%)	(7%)	(8%)	(8%)	(9%)	(12%)	(13%)	(11%)	(10%)	(9%)	(6%)	(7%)	(6%)	(7%)	(8%)
	SJR at Buckley Cove	ALL	-8	0	-12	-1	-21	5	-20	5	-13	6	-11	5	-18	-6	-9	1	-6	4	-9	5	-11	5	-12	0	-13	2
			(-8%)	(-0%)	(-11%)	(-1%)	(-15%)	(4%)	(-13%)	(3%)	(-9%)	(5%)	(-8%)	(4%)	(-18%)	(-7%)	(-12%)	(2%)	(-7%)	(4%)	(-9%)	(5%)	(-11%)	(6%)	(-11%)	(-1%)	(-11%)	(2%)
		DROUGHT	-14	0	-19	-1	-33	2	-32	7	-14	12	-12	9	-32	-12	-15	3	-23	7	-12	14	-16	18	-16	0	-20	5
			(-11%)	(-0%)	(-13%)	(-1%)	(-19%)	(2%)	(-15%)	(4%)	(-6%)	(6%)	(-6%)	(4%)	(-20%)	(-8%)	(-12%)	(3%)	(-17%)	(7%)	(-11%)	(16%)	(-13%)	(21%)	(-12%)	(-0%)	(-13%)	(4%)
	Franks Tract	ALL	-51	-31	-128	-100	-81	-57	-37	-34	-7	-4	3	4	5	5	2	3	3	2	-34	-16	-26	-13	-24	-13	-31	-21
			(-27%)	(-19%)	(-65%)	(-49%)	(-39%)	(-31%)	(-28%)	(-26%)	(-11%)	(-7%)	(8%)	(10%)	(16%)	(17%)	(6%)	(11%)	(7%)	(6%)	(-27%)	(-14%)	(-17%)	(-9%)	(-13%)	(-7%)	(-26%)	(-19%)
		DROUGHT	-29	-41	-106	-121	-57	-51	-25	-34	-6	-16	5	2	6	6	7	5	13	4	-79	-48	-45	-12	22	13	-24	-24
			(-12%)	(-17%)	(-39%)	(-43%)	(-21%)	(-19%)	(-14%)	(-18%)	(-8%)	(-19%)	(14%)	(4%)	(19%)	(21%)	(24%)	(16%)	(31%)	(9%)	(-38%)	(-27%)	(-20%)	(-6%)	(10%)	(5%)	(-16%)	(-16%)
	Old R. at Rock Slough	ALL	-23	-9	-94	-74	-70	-50	-33	-31	-6	-1	2	4	-1	2	-3	0	5	5	-23	-9	-20	-9	-10	-3	-23	-15
			(-15%)	(-6%)	(-50%)	(-44%)	(-39%)	(-31%)	(-25%)	(-24%)	(-8%)	(-2%)	(4%)	(8%)	(-2%)	(3%)	(-7%)	(0%)	(12%)	(13%)	(-23%)	(-11%)	(-16%)	(-8%)	(-7%)	(-2%)	(-21%)	(-15%)
		DROUGHT	-1	-10	-74	-92	-48	-43	-17	-29	-8	-11	3	4	-1	2	4	4	12	7	-60	-36	-41	-12	19	15	-18	-17
			(-1%)	(-5%)	(-34%)	(-39%)	(-21%)	(-19%)	(-10%)	(-16%)	(-9%)	(-12%)	(5%)	(6%)	(-2%)	(3%)	(9%)	(9%)	(32%)	(18%)	(-37%)	(-26%)	(-21%)	(-8%)	(10%)	(8%)	(-13%)	(-12%)
Western Delta	Sac. R. at Emmaton	ALL	-189	-175	-197	-158	-39	-41	-31	-34	-17	-21	3	-5	7	1	16	15	16	3	58	34	103	51	12	33	-21	-25
			(-33%)	(-31%)	(-36%)	(-31%)	(-12%)	(-13%)	(-24%)	(-26%)	(-24%)	(-28%)	(9%)	(-12%)	(20%)	(4%)	(17%)	(16%)	(8%)	(2%)	(26%)	(14%)	(31%)	(13%)	(2%)	(6%)	(-8%)	(-9%)
		DROUGHT	-218	-234	-229	-232	-10	-50	-30	-68	-11	-40	12	-5	14	6	60	30	67	24	186	135	205	85	169	38	18	-26
			(-28%)	(-29%)	(-29%)	(-30%)	(-2%)	(-9%)	(-16%)	(-29%)	(-10%)	(-29%)	(28%)	(-9%)	(39%)	(14%)	(51%)	(21%)	(27%)	(8%)	(56%)	(36%)	(46%)	(15%)	(21%)	(4%)	(5%)	(-6%)
	SJR at Antioch	ALL	-586	-368	-641	-415	-241	-155	-164	-154	-76	-86	11	-17	18	-1	22	16	10	-23	-15	-15	96	67	-130	35	-141	-93
			(-40%)	(-29%)	(-43%)	(-33%)	(-24%)	(-17%)	(-33%)	(-32%)	(-30%)	(-33%)	(9%)	(-12%)	(16%)	(-1%)	(9%)	(6%)	(2%)	(-5%)	(-2%)	(-2%)	(9%)	(6%)	(-9%)	(3%)	(-19%)	(-13%)
		DROUGHT	-553	-465	-635	-470	-221	-177	-185	-248	-77	-162	31	-27	36	10	82	27	73	-4	81	63	260	199	258	133	-71	-94
			(-30%)	(-27%)	(-33%)	(-27%)	(-15%)	(-12%)	(-26%)	(-32%)	(-19%)	(-34%)	(19%)	(-12%)	(25%)	(6%)	(22%)	(6%)	(11%)	(-1%)	(6%)	(5%)	(20%)	(15%)	(14%)	(7%)	(-7%)	(-9%)
	Sac. R. at Mallard Island	ALL	-864	-453	-849	-465	-366	-208	-251	-228	-114	-141	72	-8	98	38	112	75	70	-36	66	41	214	144	-241	81	-171	-97
			(-28%)	(-17%)	(-29%)	(-18%)	(-16%)	(-10%)	(-20%)	(-18%)	(-14%)	(-17%)	(16%)	(-1%)	(19%)	(7%)	(12%)	(8%)	(5%)	(-2%)	(3%)	(2%)	(9%)	(6%)	(-8%)	(3%)	(-10%)	(-6%)
		DROUGHT	-850	-526	-927	-541	-384	-254	-323	-368	-97	-253	132	4	160	83	193	98	142	34	218	187	393	274	275	138	-89	-94
			(-23%)	(-16%)	(-24%)	(-16%)	(-12%)	(-8%)	(-17%)	(-18%)	(-7%)	(-16%)	(20%)	(1%)	(22%)	(10%)	(14%)	(6%)	(7%)	(2%)	(8%)	(7%)	(14%)	(9%)	(8%)	(4%)	(-4%)	(-4%)
Major Diversions (Pumping Stations)	NBA at Barker Slough PP	ALL	-2	-2	-2	-2	-2	-2	-3	-4	-4	-6	-4	-4	-4	-3	-3	-3	-2	-2	-2	-2	-2	-1	-2	-1	-3	-3
			(-11%)	(-9%)	(-11%)	(-10%)	(-11%)	(-10%)	(-17%)	(-18%)	(-20%)	(-25%)	(-18%)	(-20%)	(-18%)	(-16%)	(-14%)	(-13%)	(-12%)	(-10%)	(-11%)	(-9%)	(-10%)	(-8%)	(-10%)	(-9%)	(-14%)	(-14%)
		DROUGHT	-3	-2	-2	-3	-1	-2	-2	-2	-3	-3	-3	-4	-3	-4	-3	-3	-2	-2	-2	-2	-2	-2	-2	-2	-2	-3
			(-15%)	(-13%)	(-12%)	(-14%)	(-8%)	(-9%)	(-11%)	(-11%)	(-14%)	(-16%)	(-14%)	(-18%)	(-15%)	(-18%)	(-15%)	(-17%)	(-13%)	(-11%)	(-12%)	(-10%)	(-12%)	(-11%)	(-12%)	(-12%)	(-13%)	(-14%)
	Contra Costa PP #1	ALL	-19	5	-33	-18	-83	-64	-56	-37	2	-14	-11	4	-3	5	-13	-11	2	5	-12	-6	-29	-8	-15	-12	-22	-13
			(-12%)	(4%)	(-21%)	(-13%)	(-46%)	(-39%)	(-30%)	(-22%)	(2%)	(-11%)	(-12%)	(5%)	(-3%)	(8%)	(-20%)	(-17%)	(4%)	(11%)	(-13%)	(-8%)	(-20%)	(-7%)	(-10%)	(-9%)	(-19%)	(-11%)
		DROUGHT	0	19	-13	-31	-80	-85	-32	-39	12	4	-1	-3	-4	0	-4	-8	9	6	-33	-24	-73	-31	-4	7	-19	-15
			(-0%)	(11%)	(-7%)	(-15%)	(-35%)	(-38%)	(-15%)	(-18%)	(11%)	(3%)	(-2%)	(-3%)	(-6%)	(1%)	(-6%)	(-13%)	(20%)	(13%)	(-26%)	(-20%)	(-33%)	(-17%)	(-2%)	(4%)	(-13%)	(-11%)
	Banks PP	ALL	-30	-20	-57	-45	-67	-51	-65	-58	-34	-30	-35	-30	-29	-24	-11	-5	-8	-7	-24	-17	-32	-18	-35	-30	-35	-26
			(-27%)	(-19%)	(-43%)	(-38%)	(-47%)	(-40%)	(-47%)	(-44%)	(-33%)	(-30%)	(-40%)	(-36%)	(-35%)	(-30%)	(-14%)	(-8%)	(-13%)	(-11%)	(-33%)	(-25%)	(-31%)	(-20%)	(-32%)	(-29%)	(-35%)	(-30%)
		DROUGHT	-7	-4	-48	-59	-65	-55	-38	-46	-17	-18	-65	-54	-54	-44	-22	-16	4	6	-63	-51	-58	-28	-19	-13	-38	-32
			(-5%)	(-3%)	(-31%)	(-36%)	(-36%)	(-32%)	(-22%)	(-26%)	(-12%)	(-13%)	(-48%)	(-44%)	(-41%)	(-37%)	(-21%)	(-16%)	(6%)	(9%)	(-52%)	(-57%)	(-37%)	(-22%)	(-14%)	(-10%)	(-28%)	(-25%)
	Jones PP	ALL	-28	-21	-55	-47	-40	-24	-62	-49	-55	-43	-61	-55	-30	-26	-31	-27	-26	-30	-13	-9	-19	-9	-29	-25	-37	-30
			(-26%)	(-21%)	(-43%)	(-39%)	(-27%)	(-18%)	(-41%)	(-35%)	(-43%)	(-37%)	(-51%)	(-48%)	(-34%)	(-31%)	(-40%)	(-37%)	(-42%)	(-45%)	(-16%)	(-11%)	(-19%)	(-10%)	(-27%)	(-24%)	(-34%)	(-30%)
		DROUGHT	-24	-27	-43	-56	-31	-21	-83	-72	-69	-50	-101	-91	-30	-25	-50	-46	-19	-20	-34	-23	-47	-25	-5	-1	-45	-38
			(-18%)	(-20%)	(-29%)	(-35%)	(-17%)	(-12%)	(-44%)	(-40%)	(-36%)	(-29%)	(-52%)	(-49%)	(-22%)	(-19%)	(-44%)	(-42%)	(-30%)	(-31%)	(-32%)	(-24%)	(-32%)	(-20%)	(-3%)	(-1%)	(-31%)	(-28%)

[a] ALL: Water years 1976-1991 represent the 16-year period modeled using DSM2. DROUGHT: Represents a 5 consecutive year (water years 1987-1991) drought period consisting of dry and critical water year types (as defined by the Sacramento Valley 40-30-30 water year hydrologic classification index).

Table Cl-8. Period average change in chloride concentrations (mg/L) for Alternative 4A-H4 ELT relative to existing conditions and the No Action Alternative ELT. Calculation of chloride concentrations was based on a mass balance approach.

Chloride Alt 4 ELT Scn H4	Location	Period [a]	OCT		NOV		DEC		JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		Annual Avg. Change	
			Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT
Delta Interior	Moke. R. (SF) at Staten Island	ALL	4	4	3	3	1	2	3	3	3	3	4	4	3	3	3	3	7	7	7	8	6	5	4	4	4	4
			(32%)	(31%)	(26%)	(25%)	(12%)	(13%)	(14%)	(15%)	(14%)	(16%)	(22%)	(22%)	(20%)	(21%)	(18%)	(20%)	(37%)	(38%)	(39%)	(43%)	(40%)	(35%)	(32%)	(30%)	(25%)	(26%)
		DROUGHT	3	3	2	2	1	1	1	2	1	2	3	4	2	3	3	3	7	8	10	10	6	5	4	3	4	4
			(24%)	(24%)	(19%)	(18%)	(8%)	(11%)	(7%)	(9%)	(4%)	(7%)	(14%)	(19%)	(12%)	(15%)	(15%)	(18%)	(39%)	(43%)	(62%)	(59%)	(45%)	(30%)	(26%)	(22%)	(22%)	(22%)
	SJR at Buckley Cove	ALL	-2	0	-2	-1	-5	1	-2	2	-2	1	-2	1	-3	1	-3	1	-7	1	-10	1	-10	1	-5	0	-4	1
			(-3%)	(0%)	(-2%)	(-1%)	(-7%)	(1%)	(-3%)	(3%)	(-3%)	(2%)	(-2%)	(2%)	(-4%)	(2%)	(-4%)	(1%)	(-8%)	(2%)	(-11%)	(1%)	(-11%)	(2%)	(-5%)	(-0%)	(-5%)	(1%)
		DROUGHT	-3	0	-4	0	-9	0	-6	3	-4	2	-4	2	-6	3	-6	3	-13	3	-14	1	-17	4	-7	0	-8	2
			(-3%)	(0%)	(-4%)	(-1%)	(-11%)	(0%)	(-7%)	(3%)	(-5%)	(2%)	(-4%)	(3%)	(-7%)	(4%)	(-7%)	(3%)	(-14%)	(5%)	(-15%)	(2%)	(-18%)	(6%)	(-8%)	(-0%)	(-9%)	(2%)
	Franks Tract	ALL	-82	-43	-213	-159	-118	-84	-42	-50	-5	-7	8	6	7	6	5	4	7	5	-72	-46	-54	-36	-41	-21	-50	-35
			(-28%)	(-17%)	(-55%)	(-45%)	(-40%)	(-32%)	(-27%)	(-30%)	(-8%)	(-11%)	(21%)	(15%)	(20%)	(16%)	(12%)	(9%)	(12%)	(9%)	(-37%)	(-26%)	(-23%)	(-17%)	(-14%)	(-7%)	(-29%)	(-22%)
		DROUGHT	-61	-67	-207	-215	-92	-80	-20	-39	-8	-19	2	-2	4	3	7	3	11	0	-146	-96	-80	-30	40	29	-46	-43
			(-17%)	(-18%)	(-47%)	(-48%)	(-25%)	(-22%)	(-10%)	(-18%)	(-12%)	(-24%)	(8%)	(-7%)	(19%)	(12%)	(23%)	(8%)	(20%)	(1%)	(-47%)	(-37%)	(-25%)	(-11%)	(11%)	(8%)	(-22%)	(-20%)
	Old R. at Rock Slough	ALL	-39	-10	-160	-120	-104	-73	-37	-47	-3	-4	7	6	3	2	2	2	10	9	-54	-34	-46	-29	-23	-10	-37	-26
			(-16%)	(-5%)	(-52%)	(-45%)	(-40%)	(-32%)	(-24%)	(-29%)	(-4%)	(-6%)	(15%)	(11%)	(6%)	(4%)	(4%)	(4%)	(18%)	(17%)	(-35%)	(-26%)	(-24%)	(-17%)	(-9%)	(-4%)	(-24%)	(-18%)
		DROUGHT	-17	-21	-155	-171	-82	-71	-8	-31	-7	-15	1	-2	3	2	7	5	11	4	-115	-76	-76	-32	35	31	-34	-31
			(-6%)	(-7%)	(-44%)	(-47%)	(-26%)	(-23%)	(-4%)	(-15%)	(-10%)	(-19%)	(2%)	(-5%)	(9%)	(6%)	(21%)	(14%)	(25%)	(8%)	(-46%)	(-38%)	(-27%)	(-14%)	(12%)	(11%)	(-19%)	(-18%)
Western Delta	Sac. R. at Emmaton	ALL	-269	-239	-293	-216	-28	-37	-37	-48	-14	-22	4	-4	6	0	13	11	23	3	118	88	151	81	-6	41	-28	-29
			(-32%)	(-29%)	(-33%)	(-27%)	(-6%)	(-8%)	(-24%)	(-29%)	(-21%)	(-29%)	(15%)	(-11%)	(15%)	(-1%)	(10%)	(9%)	(10%)	(1%)	(36%)	(25%)	(32%)	(15%)	(-1%)	(5%)	(-7%)	(-8%)
		DROUGHT	-373	-370	-379	-350	48	-11	-44	-89	-9	-41	11	-4	13	4	59	26	71	31	297	238	283	127	167	-6	12	-37
			(-32%)	(-32%)	(-30%)	(-29%)	(7%)	(-1%)	(-19%)	(-33%)	(-8%)	(-29%)	(24%)	(-7%)	(26%)	(8%)	(33%)	(12%)	(23%)	(9%)	(63%)	(48%)	(46%)	(17%)	(15%)	(-0%)	(2%)	(-7%)
	SJR at Antioch	ALL	-861	-537	-990	-620	-292	-218	-195	-209	-72	-97	9	-18	8	-10	-5	-11	-6	-51	-19	-5	153	110	-255	15	-210	-138
			(-39%)	(-29%)	(-40%)	(-30%)	(-20%)	(-16%)	(-32%)	(-34%)	(-27%)	(-33%)	(8%)	(-13%)	(6%)	(-6%)	(-2%)	(-3%)	(-1%)	(-8%)	(-2%)	(-0%)	(10%)	(7%)	(-12%)	(1%)	(-19%)	(-14%)
		DROUGHT	-919	-741	-1073	-748	-198	-181	-234	-319	-70	-169	19	-27	17	-6	42	-7	40	-23	44	56	350	280	273	129	-142	-146
			(-34%)	(-30%)	(-35%)	(-27%)	(-10%)	(-9%)	(-28%)	(-34%)	(-17%)	(-33%)	(12%)	(-13%)	(9%)	(-3%)	(8%)	(-1%)	(5%)	(-3%)	(3%)	(3%)	(21%)	(16%)	(11%)	(5%)	(-10%)	(-10%)
	Sac. R. at Mallard Island	ALL	-1066	-615	-1073	-583	-362	-278	-289	-292	-87	-138	55	-6	30	-11	-10	-36	29	-82	107	120	281	189	-401	66	-232	-139
			(-23%)	(-15%)	(-22%)	(-13%)	(-11%)	(-9%)	(-17%)	(-17%)	(-9%)	(-14%)	(12%)	(-1%)	(4%)	(-1%)	(-1%)	(-3%)	(2%)	(-4%)	(4%)	(4%)	(8%)	(5%)	(-9%)	(2%)	(-9%)	(-6%)
		DROUGHT	-1216	-794	-1317	-750	-312	-262	-429	-491	-75	-241	87	15	106	63	64	29	58	11	192	215	439	310	179	61	-185	-153
			(-23%)	(-16%)	(-22%)	(-14%)	(-7%)	(-6%)	(-18%)	(-20%)	(-5%)	(-14%)	(12%)	(2%)	(10%)	(6%)	(3%)	(1%)	(2%)	(0%)	(5%)	(6%)	(12%)	(8%)	(4%)	(1%)	(-6%)	(-5%)
Major Diversions (Pumping Stations)	NBA at Barker Slough PP	ALL	-6	-5	-4	-4	-3	-3	-4	-5	-5	-7	-5	-6	-6	-5	-6	-6	-9	-8	-11	-9	-9	-8	-7	-6	-6	-6
			(-36%)	(-31%)	(-28%)	(-29%)	(-22%)	(-23%)	(-29%)	(-31%)	(-32%)	(-39%)	(-31%)	(-34%)	(-35%)	(-32%)	(-38%)	(-37%)	(-46%)	(-42%)	(-46%)	(-43%)	(-45%)	(-41%)	(-38%)	(-36%)	(-37%)	(-35%)
		DROUGHT	-10	-9	-5	-7	-2	-3	-2	-2	-3	-4	-4	-5	-5	-6	-7	-7	-10	-8	-11	-10	-11	-11	-10	-10	-7	-7
			(-47%)	(-43%)	(-33%)	(-39%)	(-16%)	(-20%)	(-17%)	(-19%)	(-24%)	(-27%)	(-26%)	(-31%)	(-31%)	(-35%)	(-38%)	(-41%)	(-46%)	(-43%)	(-49%)	(-46%)	(-47%)	(-47%)	(-46%)	(-45%)	(-38%)	(-38%)
	Contra Costa PP #1	ALL	-30	10	-62	-38	-111	-82	-59	-44	0	-18	8	5	7	7	1	0	10	10	-30	-24	-68	-38	-29	-26	-30	-20
			(-12%)	(5%)	(-25%)	(-17%)	(-47%)	(-39%)	(-33%)	(-27%)	(0%)	(-18%)	(15%)	(10%)	(13%)	(14%)	(2%)	(1%)	(18%)	(17%)	(-25%)	(-20%)	(-33%)	(-22%)	(-14%)	(-13%)	(-21%)	(-15%)
		DROUGHT	-4	33	-40	-63	-129	-134	-38	-56	7	-8	-2	-6	2	1	4	1	11	5	-73	-60	-132	-67	-6	11	-33	-29
			(-1%)	(13%)	(-13%)	(-20%)	(-43%)	(-44%)	(-17%)	(-24%)	(8%)	(-8%)	(-4%)	(-12%)	(5%)	(3%)	(10%)	(3%)	(26%)	(10%)	(-40%)	(-35%)	(-42%)	(-27%)	(-3%)	(5%)	(-19%)	(-17%)
	Banks PP	ALL	-53	-35	-111	-90	-99	-76	-61	-84	-37	-42	-38	-39	-29	-30	-32	-32	-22	-22	-53	-39	-71	-50	-68	-60	-58	-50
			(-32%)	(-24%)	(-55%)	(-50%)	(-52%)	(-46%)	(-53%)	(-59%)	(-45%)	(-46%)	(-56%)	(-56%)	(-41%)	(-42%)	(-44%)	(-44%)	(-33%)	(-33%)	(-50%)	(-43%)	(-47%)	(-39%)	(-41%)	(-38%)	(-47%)	(-43%)
		DROUGHT	-28	-20	-92	-106	-93	-82	-62	-80	-12	-22	-34	-34	-31	-30	-23	-23	-12	-13	-116	-95	-130	-82	-13	-2	-54	-49
			(-14%)	(-10%)	(-41%)	(-44%)	(-41%)	(-38%)	(-37%)	(-43%)	(-13%)	(-22%)	(-51%)	(-51%)	(-47%)	(-47%)	(-39%)	(-39%)	(-23%)	(-24%)	(-75%)	(-76%)	(-57%)	(-46%)	(-7%)	(-1%)	(-37%)	(-35%)
	Jones PP	ALL	-71	-59	-101	-87	-59	-45	-43	-45	-38	-38	-45	-46	-43	-43	-39	-39	-23	-24	-42	-29	-48	-31	-48	-39	-50	-44
			(-47%)	(-42%)	(-55%)	(-51%)	(-38%)	(-32%)	(-36%)	(-39%)	(-46%)	(-47%)	(-60%)	(-60%)	(-53%)	(-53%)	(-46%)	(-46%)	(-34%)	(-35%)	(-38%)	(-30%)	(-34%)	(-25%)	(-31%)	(-27%)	(-43%)	(-40%)
		DROUGHT	-78	-82	-95	-113	-45	-39	-31	-39	-11	-10	-30	-29	-29	-29	-31	-32	-2	-4	-72	-48	-70	-30	4	10	-41	-37
			(-44%)	(-45%)	(-47%)	(-53%)	(-26%)	(-23%)	(-24%)	(-28%)	(-13%)	(-12%)	(-39%)	(-38%)	(-37%)	(-37%)	(-40%)	(-40%)	(-3%)	(-8%)	(-47%)	(-37%)	(-34%)	(-18%)	(2%)	(6%)	(-31%)	(-29%)

[a] ALL: Water years 1976-1991 represent the 16-year period modeled using DSM2. DROUGHT: Represents a 5 consecutive year (water years 1987-1991) drought period consisting of dry and critical water year types (as defined by the Sacramento Valley 40-30-30 water year hydrologic classification index).

Table Cl-9. Period average change in chloride concentrations (mg/L) for Alternative 4A-H4 ELT relative to existing conditions and the No Action Alternative ELT. Calculation of chloride concentrations was based on EC-chloride relationship.

Chloride / Alt 4 ELT Scn H4	Location	Period [a]	OCT		NOV		DEC		JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		Annual Avg. Change	
			Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT
Delta Interior	Moke. R. (SF) at Staten Island	ALL	1	1	1	1	1	1	2	2	2	3	3	3	2	2	1	2	2	2	2	2	1	1	1	1	2	2
			(9%)	(8%)	(8%)	(8%)	(4%)	(5%)	(9%)	(10%)	(9%)	(11%)	(12%)	(12%)	(11%)	(11%)	(9%)	(9%)	(12%)	(12%)	(10%)	(10%)	(9%)	(7%)	(7%)	(6%)	(9%)	(9%)
		DROUGHT	1	1	1	1	1	1	1	1	1	1	2	3	1	2	2	2	2	3	2	2	2	1	1	1	1	2
			(7%)	(7%)	(6%)	(6%)	(3%)	(4%)	(5%)	(5%)	(2%)	(4%)	(8%)	(11%)	(7%)	(8%)	(9%)	(10%)	(14%)	(15%)	(14%)	(13%)	(9%)	(7%)	(6%)	(6%)	(7%)	(8%)
	SJR at Buckley Cove	ALL	-8	0	-12	-1	-20	5	-21	4	-13	6	-11	5	-18	-6	-9	1	-6	4	-7	7	-10	7	-12	0	-12	3
			(-8%)	(-0%)	(-11%)	(-1%)	(-15%)	(4%)	(-13%)	(3%)	(-9%)	(5%)	(-8%)	(4%)	(-18%)	(-7%)	(-12%)	(2%)	(-6%)	(5%)	(-7%)	(7%)	(-9%)	(8%)	(-11%)	(-0%)	(-11%)	(3%)
		DROUGHT	-14	0	-18	-1	-32	3	-32	7	-14	12	-12	9	-33	-13	-15	3	-22	8	-8	18	-10	23	-16	0	-19	6
			(-11%)	(-0%)	(-13%)	(-1%)	(-19%)	(2%)	(-15%)	(4%)	(-6%)	(6%)	(-6%)	(4%)	(-20%)	(-9%)	(-12%)	(3%)	(-17%)	(8%)	(-7%)	(20%)	(-9%)	(27%)	(-12%)	(0%)	(-12%)	(4%)
	Franks Tract	ALL	-49	-30	-126	-99	-84	-60	-39	-36	-7	-4	3	4	6	6	3	5	4	3	-47	-29	-34	-22	-21	-10	-33	-23
			(-26%)	(-18%)	(-55%)	(-48%)	(-40%)	(-32%)	(-29%)	(-27%)	(-11%)	(-7%)	(8%)	(10%)	(20%)	(21%)	(10%)	(15%)	(9%)	(8%)	(-37%)	(-26%)	(-22%)	(-15%)	(-11%)	(-5%)	(-27%)	(-21%)
		DROUGHT	-33	-46	-124	-139	-69	-64	-22	-31	-7	-17	5	1	8	9	10	8	13	5	-97	-66	-52	-19	34	24	-28	-28
			(-15%)	(-19%)	(-46%)	(-49%)	(-26%)	(-24%)	(-12%)	(-17%)	(-9%)	(-20%)	(12%)	(2%)	(27%)	(29%)	(32%)	(24%)	(32%)	(10%)	(-46%)	(-36%)	(-23%)	(-10%)	(14%)	(10%)	(-18%)	(-18%)
	Old R. at Rock Slough	ALL	-20	-5	-92	-72	-73	-52	-33	-32	-5	-1	4	6	4	6	2	5	7	8	-34	-20	-29	-18	-8	0	-23	-15
			(-13%)	(-4%)	(-49%)	(-43%)	(-40%)	(-33%)	(-25%)	(-24%)	(-7%)	(-1%)	(8%)	(12%)	(7%)	(13%)	(4%)	(12%)	(19%)	(20%)	(-33%)	(-23%)	(-23%)	(-15%)	(-5%)	(-0%)	(-21%)	(-15%)
		DROUGHT	-4	-13	-89	-107	-62	-56	-9	-21	-9	-12	4	4	9	12	11	11	15	9	-75	-51	-50	-22	29	25	-19	-18
			(-2%)	(-6%)	(-41%)	(-48%)	(-27%)	(-25%)	(-5%)	(-12%)	(-10%)	(-13%)	(6%)	(7%)	(16%)	(23%)	(27%)	(26%)	(38%)	(21%)	(-46%)	(-37%)	(-26%)	(-13%)	(15%)	(13%)	(-14%)	(-14%)
Western Delta	Sac. R. at Emmaton	ALL	-181	-167	-191	-152	-29	-31	-34	-37	-18	-22	3	-5	5	-1	12	11	20	8	90	66	113	61	14	34	-16	-20
			(-32%)	(-30%)	(-35%)	(-30%)	(-9%)	(-10%)	(-26%)	(-28%)	(-26%)	(-30%)	(9%)	(-12%)	(14%)	(-1%)	(13%)	(11%)	(11%)	(4%)	(40%)	(26%)	(34%)	(16%)	(2%)	(6%)	(-8%)	(-8%)
		DROUGHT	-244	-260	-247	-250	21	-19	-40	-77	-17	-46	13	-5	12	4	54	25	76	33	238	187	231	111	148	17	20	-23
			(-31%)	(-33%)	(-32%)	(-32%)	(4%)	(-4%)	(-20%)	(-33%)	(-16%)	(-34%)	(30%)	(-8%)	(34%)	(10%)	(46%)	(17%)	(31%)	(12%)	(72%)	(49%)	(52%)	(20%)	(19%)	(2%)	(6%)	(-6%)
	SJR at Antioch	ALL	-579	-361	-638	-413	-240	-154	-171	-161	-85	-96	3	-25	9	-10	6	0	4	-30	5	5	129	100	-129	35	-141	-92
			(-39%)	(-29%)	(-43%)	(-33%)	(-24%)	(-18%)	(-34%)	(-33%)	(-33%)	(-36%)	(2%)	(-17%)	(8%)	(-8%)	(3%)	(0%)	(1%)	(-6%)	(1%)	(1%)	(12%)	(9%)	(-9%)	(3%)	(-19%)	(-13%)
		DROUGHT	-810	-521	-700	-534	-190	-146	-204	-268	-94	-180	29	-29	23	-2	65	10	71	-6	77	60	313	252	268	141	-79	-102
			(-33%)	(-30%)	(-37%)	(-31%)	(-13%)	(-10%)	(-29%)	(-34%)	(-24%)	(-37%)	(18%)	(-13%)	(16%)	(-1%)	(17%)	(2%)	(10%)	(-1%)	(6%)	(5%)	(24%)	(19%)	(15%)	(7%)	(-8%)	(-10%)
	Sac. R. at Mallard Island	ALL	-855	-444	-841	-456	-366	-208	-276	-253	-136	-163	54	-25	58	-3	38	1	46	-59	116	91	257	187	-236	86	-178	-104
			(-28%)	(-17%)	(-29%)	(-18%)	(-16%)	(-10%)	(-22%)	(-20%)	(-17%)	(-19%)	(12%)	(-5%)	(11%)	(-0%)	(4%)	(0%)	(3%)	(-4%)	(6%)	(4%)	(10%)	(7%)	(-8%)	(3%)	(-10%)	(-6%)
		DROUGHT	-923	-599	-999	-613	-343	-212	-406	-451	-150	-306	130	3	134	57	163	68	148	39	250	219	458	339	271	134	-106	-110
			(-25%)	(-18%)	(-26%)	(-18%)	(-11%)	(-7%)	(-21%)	(-23%)	(-11%)	(-20%)	(20%)	(0%)	(18%)	(7%)	(11%)	(4%)	(7%)	(2%)	(9%)	(8%)	(16%)	(11%)	(8%)	(4%)	(-5%)	(-5%)
Major Diversions (Pumping Stations)	NBA at Barker Slough PP	ALL	-2	-2	-2	-2	-2	-2	-3	-3	-4	-6	-4	-4	-4	-3	-3	-3	-2	-2	-2	-2	-2	-1	-2	-1	-3	-3
			(-11%)	(-9%)	(-11%)	(-10%)	(-11%)	(-10%)	(-17%)	(-18%)	(-20%)	(-25%)	(-18%)	(-20%)	(-18%)	(-16%)	(-14%)	(-13%)	(-12%)	(-10%)	(-11%)	(-9%)	(-10%)	(-8%)	(-10%)	(-8%)	(-14%)	(-14%)
		DROUGHT	-3	-2	-2	-3	-1	-2	-2	-2	-3	-3	-3	-4	-3	-4	-3	-3	-2	-2	-2	-2	-2	-2	-2	-2	-2	-3
			(-15%)	(-13%)	(-12%)	(-14%)	(-8%)	(-9%)	(-10%)	(-11%)	(-14%)	(-16%)	(-15%)	(-18%)	(-15%)	(-18%)	(-15%)	(-17%)	(-13%)	(-11%)	(-11%)	(-10%)	(-11%)	(-10%)	(-12%)	(-11%)	(-13%)	(-13%)
	Contra Costa PP #1	ALL	-14	10	-34	-19	-82	-63	-62	-44	3	-13	-9	6	0	9	-6	-4	6	9	-17	-12	-45	-25	-15	-12	-23	-13
			(-9%)	(7%)	(-21%)	(-13%)	(-45%)	(-39%)	(-34%)	(-26%)	(2%)	(-11%)	(-10%)	(8%)	(0%)	(12%)	(-9%)	(-6%)	(13%)	(20%)	(-19%)	(-14%)	(-32%)	(-21%)	(-11%)	(-9%)	(-19%)	(-12%)
		DROUGHT	5	24	-19	-37	-96	-101	-43	-51	9	0	-2	-3	7	12	6	2	13	10	-45	-36	-89	-46	-3	9	-21	-18
			(2%)	(14%)	(-10%)	(-18%)	(-42%)	(-43%)	(-21%)	(-24%)	(8%)	(0%)	(-2%)	(-3%)	(10%)	(17%)	(10%)	(3%)	(29%)	(20%)	(-35%)	(-31%)	(-40%)	(-26%)	(-2%)	(5%)	(-15%)	(-13%)
	Banks PP	ALL	-31	-21	-63	-52	-67	-51	-76	-70	-39	-35	-36	-31	-22	-17	-25	-20	-14	-12	-26	-19	-43	-29	-36	-31	-40	-32
			(-28%)	(-21%)	(-48%)	(-43%)	(-46%)	(-40%)	(-55%)	(-53%)	(-38%)	(-35%)	(-42%)	(-38%)	(-26%)	(-22%)	(-34%)	(-29%)	(-22%)	(-20%)	(-38%)	(-29%)	(-42%)	(-33%)	(-33%)	(-30%)	(-39%)	(-34%)
		DROUGHT	-16	-13	-53	-65	-74	-64	-68	-76	-25	-26	-75	-65	-60	-50	-41	-35	-9	-8	-73	-61	-78	-47	-4	2	-48	-42
			(-12%)	(-10%)	(-35%)	(-40%)	(-41%)	(-37%)	(-40%)	(-42%)	(-18%)	(-19%)	(-57%)	(-53%)	(-45%)	(-42%)	(-39%)	(-35%)	(-13%)	(-11%)	(-72%)	(-58%)	(-57%)	(-38%)	(-3%)	(2%)	(-36%)	(-33%)
	Jones PP	ALL	-47	-40	-57	-49	-43	-27	-50	-38	-49	-37	-60	-53	-37	-32	-26	-21	-15	-19	-20	-16	-25	-15	-23	-19	-38	-31
			(-43%)	(-39%)	(-44%)	(-40%)	(-29%)	(-20%)	(-33%)	(-27%)	(-38%)	(-32%)	(-50%)	(-47%)	(-42%)	(-39%)	(-34%)	(-30%)	(-24%)	(-29%)	(-24%)	(-20%)	(-25%)	(-17%)	(-21%)	(-18%)	(-35%)	(-30%)
		DROUGHT	-56	-60	-59	-72	-44	-33	-48	-36	-55	-37	-90	-80	-42	-38	-44	-40	1	0	-35	-24	-43	-21	6	10	-43	-36
			(-42%)	(-44%)	(-40%)	(-43%)	(-24%)	(-19%)	(-25%)	(-20%)	(-29%)	(-21%)	(-47%)	(-44%)	(-32%)	(-29%)	(-39%)	(-37%)	(1%)	(-0%)	(-33%)	(-25%)	(-29%)	(-16%)	(5%)	(8%)	(-29%)	(-26%)

[a] ALL: Water years 1976-1991 represent the 16-year period modeled using DSM2. DROUGHT: Represents a 5 consecutive year (water years 1987-1991) drought period consisting of dry and critical water year types (as defined by the Sacramento Valley 40-30-30 water year hydrologic classification index).

Table Cl-10. No Action Alternative ELT percent use of assimilative capacity available under existing conditions relative to the 250 mg/L secondary MCL. Calculation of chloride concentrations was based on a mass balance approach.

Chloride			OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	Annual Avg. Change
No Act. ELT	Location	Period [a]	Ex. Cond.	Ex. Cond.	Ex. Cond.	Ex. Cond.	Ex. Cond.	Ex. Cond.	Ex. Cond.	Ex. Cond.	Ex. Cond.	Ex. Cond.	Ex. Cond.	Ex. Cond.	Ex. Cond.
Delta Interior	Moke. R. (SF) at Staten Island	ALL	0	0	0	0	0	0	0	0	0	0	0	0	0
		DROUGHT	0	0	0	0	0	0	0	0	0	0	-1	0	0
	SJR at Buckley Cove	ALL	1	1	4	3	2	2	3	3	5	6	7	3	3
		DROUGHT	2	2	6	5	3	4	5	5	10	9	14	4	6
	Franks Tract	ALL	-	-	-	-9	-1	-1	-1	-1	-1	45	89	-	19
		DROUGHT	-	-	-	-42	-6	-2	-1	-2	-5	-	-	-	8
	Old R. at Rock Slough	ALL	-	-	-	-10	-1	-1	-1	0	0	20	28	-	12
		DROUGHT	-	-	-	-39	-5	-1	0	-1	-3	-	-	-	3
Western Delta	Sac. R. at Emmaton	ALL	-	-	-	-11	-4	-4	-3	-1	-70	-	-	-	-
		DROUGHT	-	-	-	-100	-23	-7	-4	-46	-	-	-	-	-
	SJR at Antioch	ALL	-	-	-	-	-	-20	-17	-	-	-	-	-	-
		DROUGHT	-	-	-	-	-	-52	-44	-	-	-	-	-	-
	Sac. R. at Mallard Island	ALL	-	-	-	-	-	-	-	-	-	-	-	-	-
		DROUGHT	-	-	-	-	-	-	-	-	-	-	-	-	-
Major Diversions (Pu Stations)	NBA at Barker Slough PP	ALL	1	0	0	0	-1	0	0	0	1	1	1	0	0
		DROUGHT	1	-1	0	0	0	0	0	0	1	1	0	0	0
	Contra Costa PP #1	ALL	-	-	-	21	-11	-1	0	0	0	5	66	3	10
		DROUGHT	-	-	-	-59	-9	-2	0	-1	-3	20	-	-	7
	Banks PP	ALL	21	45	35	-3	-3	0	0	0	0	9	21	10	6
		DROUGHT	15	-58	45	-22	-7	0	0	0	-1	20	-	22	4
	Jones PP	ALL	12	23	15	-1	0	0	0	0	-1	9	16	10	5
		DROUGHT	-5	-38	8	-6	0	1	0	-1	-1	25	89	9	3

[a] ALL: Water years 1975-1991 represent the 16-year period modeled using DSM2. DROUGHT: Represents a 5 consecutive year (water years 1987-1991) drought period consisting of dry and critical water year types (as defined by the Sacramento Valley 40-30-30 water year hydrologic classification index).

NOTES:

-- Positive values indicate that implementation of the Alternative increases assimilative capacity available under Existing Conditions or the No Action Alternative ELT (i.e., water quality improves under the Alternative, relative to Existing Conditions or the No Action Alternative ELT). Negative values indicate that implementation of the Alternative decreases assimilative capacity available under Existing Conditions or the No Action Alternative ELT (i.e., water quality degradation occurs under the Alternative, relative to Existing Conditions or the No Action Alternative ELT). Values of -100% represent instances where all available assimilative capacity is used under the Alternative, and therefore concentrations are at or above the criteria.

-- Regulatory objective is the state secondary maximum contaminant level (MCL) incorporated by reference in the Region 2 and 5 Basin Plans.

Table Cl-11. No Action Alternative ELT percent use of assimilative capacity available under existing conditions relative to the 250 mg/L secondary MCL. Calculation of chloride concentrations was based on EC-chloride relationship.

Chloride			OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ual Avg. Chan
No Act. ELT	Location	Period [a]	Ex. Cond.	Ex. Cond.	Ex. Cond.	Ex. Cond.	Ex. Cond.	Ex. Cond.	Ex. Cond.	Ex. Cond.	Ex. Cond.	Ex. Cond.	Ex. Cond.	Ex. Cond.	Ex. Cond.
Delta Interior	Moke. R. (SF) at Staten Island	ALL	0	0	0	0	0	0	0	0	0	0	0	0	0
		DROUGHT	0	0	0	0	0	0	0	0	0	0	0	0	0
	SJR at Buckley Cove	ALL	5	8	23	29	18	14	8	6	7	10	12	8	11
		DROUGHT	11	16	42	-	78	60	24	14	25	19	26	14	26
	Franks Tract	ALL	32	-	58	3	1	0	0	1	0	15	13	18	8
		DROUGHT	-63	-	-	-13	-6	-2	0	-1	-4	82	-	-56	0
	Old R. at Rock Slough	ALL	15	32	29	2	3	1	1	2	0	9	9	7	6
		DROUGHT	-14	-52	25	-15	-2	0	2	0	-3	27	48	-6	1
Western Delta	Sac. R. at Emmaton	ALL	-	-	-	-3	-2	-4	-3	-1	-19	-96	-	-	-
		DROUGHT	-	-	-	-66	-20	-9	-4	-22	-100	-	-	-	-
	SJR at Antioch	ALL	-	-	-	-	-	-22	-14	-	-	-	-	-	-
		DROUGHT	-	-	-	-	-	-66	-24	-	-	-	-	-	-
	Sac. R. at Mallard Island	ALL	-	-	-	-	-	-	-	-	-	-	-	-	-
		DROUGHT	-	-	-	-	-	-	-	-	-	-	-	-	-
Major Diversions (Pum Stations)	NBA at Barker Slough PP	ALL	0	0	0	0	-1	0	0	0	0	0	0	0	0
		DROUGHT	0	0	0	0	0	0	0	0	0	0	0	0	0
	Contra Costa PP #1	ALL	26	16	28	28	-11	9	5	1	1	3	19	2	7
		DROUGHT	35	-30	-22	-20	-6	-1	3	-2	-2	7	-	15	3
	Banks PP	ALL	7	10	15	6	3	3	3	3	1	4	9	3	5
		DROUGHT	2	-12	14	-10	-1	9	8	4	1	8	33	6	5
	Jones PP	ALL	5	7	15	13	9	5	3	3	-2	3	7	3	5
		DROUGHT	-3	-13	16	20	31	18	4	3	0	8	22	3	6

[a] ALL: Water years 1975-1991 represent the 16-year period modeled using DSM2. DROUGHT: Represents a 5 consecutive year (water years 1987-1991) drought period consisting of dry and critical water year types (as defined by the Sacramento Valley 40-30-30 water year hydrologic classification index).

NOTES:

-- Positive values indicate that implementation of the Alternative increases assimilative capacity available under Existing Conditions or the No Action Alternative ELT (i.e., water quality improves under the Alternative, relative to Existing Conditions or the No Action Alternative ELT). Negative values indicate that implementation of the Alternative decreases assimilative capacity available under Existing Conditions or the No Action Alternative ELT (i.e., water quality degradation occurs under the Alternative, relative to Existing Conditions or the No Action Alternative ELT). Values of -100% represent instances where all available assimilative capacity is used under the Alternative, and therefore concentrations are at or above the criteria.

-- Regulatory objective is the state secondary maximum contaminant level (MCL) incorporated by reference in the Region 2 and 5 Basin Plans.

Table Cl-12. Alternative 4A-H3 ELT percent use of assimilative capacity available under existing conditions and No Action Alternative ELT relative to the 250 mg/L secondary MCL. Calculation of chloride concentrations was based on a mass balance approach.

Chloride			OCT		NOV		DEC		JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		Annual Avg. Change	
Alt 4 ELT Scn H3	Location	Period [a]	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT
Delta Interior	Moke. R. (SF) at Staten Island	ALL	-2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-2	-2	-1	-1	-1	-1	-3	-3	-2	-2	-2	-2	-1	-1	-2	-2
		DROUGHT	-1	-1	-1	-1	0	-1	-1	-1	-1	-1	-2	-2	-1	-1	-1	-1	-3	-3	-4	-3	-3	-2	-2	-1	-2	-
	SJR at Buckley Cove	ALL	1	0	1	0	3	-1	1	-1	1	-1	1	-1	2	-1	2	-1	5	-1	7	0	6	0	3	0	3	0
		DROUGHT	2	0	2	0	6	0	4	-1	2	-1	2	-1	4	-2	4	-2	8	-2	9	0	12	-1	4	0	5	-
	Franks Tract	ALL	-	-	-	-	-	-	41	55	2	3	-4	-3	-4	-3	-3	-2	-3	-3	89	30	-	52	-	-	61	35
		DROUGHT	-	-	-	-	-	-	49	-	3	10	-1	1	-2	-1	-3	-1	-6	-1	-	-	-	-	-	-	-	-
	Old R. at Rock Slough	ALL	-	29	-	-	-	-	36	51	2	3	-3	-3	-1	0	0	0	-4	-4	37	14	51	18	-	55	35	21
		DROUGHT	-	-	-	-	-	-	25	-	4	9	0	1	0	1	-2	-1	-5	-2	-	-	-	-	-	-	41	-
Western Delta	Sac. R. at Emmaton	ALL	-	-	-	-	-	-	34	51	7	12	-2	2	-4	-2	-15	-14	-57	44	-	-	-	-	-	-	-	-
		DROUGHT	-	-	-	-	-	-	-	-	4	34	-5	3	-8	-4	-91	-83	-	-	-	-	-	-	-	-	-	-
	SJR at Antioch	ALL	-	-	-	-	-	-	-	-	-	-	-11	11	-18	-2	-	-	-	-	-	-	-	-	-	-	-	-
		DROUGHT	-	-	-	-	-	-	-	-	-	-	-22	63	-61	-32	-	-	-	-	-	-	-	-	-	-	-	-
	Sac. R. at Mallard Island	ALL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		DROUGHT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Major Diversions (Pumping Stations)	NBA at Barker Slough PP	ALL	3	2	2	2	1	1	2	2	2	3	2	2	2	2	3	3	4	3	5	4	4	4	3	3	3	3
		DROUGHT	4	4	2	3	1	1	1	1	1	2	2	2	2	2	3	3	4	4	5	4	5	5	4	4	3	-
	Contra Costa PP #1	ALL	-	-13	-	-	-	-	71	41	-1	10	-3	-2	-3	-3	1	1	-4	-4	16	10	89	14	77	72	26	14
		DROUGHT	-	-	-	-	-	-	79	-	-7	3	0	3	1	1	0	1	-5	-2	78	48	-	-	-	-78	36	-
	Banks PP	ALL	60	33	-	-	-	96	61	67	20	24	20	21	20	20	12	12	8	8	28	17	55	28	76	60	41	33
		DROUGHT	26	10	-	-	-	-	42	82	5	13	16	16	14	13	7	7	0	1	94	62	-	64	65	35	40	-
	Jones PP	ALL	51	35	-	-	56	36	41	42	24	25	25	25	22	22	25	25	18	19	22	12	30	13	61	47	36	30
		DROUGHT	58	67	-	-	40	29	48	59	13	12	20	19	13	13	20	20	7	8	62	30	-	45	14	5	34	-

[a] ALL: Water years 1975-1991 represent the 16-year period modeled using DSM2. DROUGHT: Represents a 5 consecutive year (water years 1987-1991) drought period consisting of dry and critical water year types (as defined by the Sacramento Valley 40-30-30 water year hydrologic classification index).

NOTES:

-- Positive values indicate that implementation of the Alternative increases assimilative capacity available under Existing Conditions or the No Action Alternative ELT (i.e., water quality improves under the Alternative, relative to Existing Conditions or the No Action Alternative ELT). Negative values indicate that implementation of the Alternative decreases assimilative capacity available under Existing Conditions or the No Action Alternative ELT (i.e., water quality degradation occurs under the Alternative, relative to Existing Conditions or the No Action Alternative ELT). Values of -100% represent instances where all available assimilative capacity is used under the Alternative, and therefore concentrations are at or above the criteria.

-- Regulatory objective is the state secondary maximum contaminant level (MCL) incorporated by reference in the Region 2 and 5 Basin Plans.

Table Cl-13. Alternative 4A-H3 ELT percent use of assimilative capacity available under existing conditions and No Action Alternative ELT relative to the 250 mg/L secondary MCL. Calculation of chloride concentrations was based on EC-chloride relationship.

Chloride			OCT		NOV		DEC		JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		Annual Avg. Change	
Alt 4 ELT Scn H3	Location	Period [a]	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT
Delta Interior	Moke. R. (SF) at Staten Island	ALL	-1	-1	-1	-1	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	0	-1	0	0	0	-1	-1
		DROUGHT	-1	-1	0	0	0	0	-1	-1	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	0	0	-1	-1
	SJR at Buckley Cove	ALL	5	0	9	1	19	-3	23	-4	12	-5	10	-4	12	4	5	-1	4	-2	7	-3	8	-3	8	0	9	-2
		DROUGHT	11	0	17	1	40	-2	85	-9	42	-20	35	-15	38	12	12	-2	19	-5	9	-8	12	-11	14	0	21	-4
	Franks Tract	ALL	83	39	-	-	-	87	32	28	4	2	-1	-2	-2	-2	-1	-2	-1	-1	28	11	27	12	41	19	24	15
		DROUGHT	-	-	-	-	-	-	35	55	3	10	-3	-1	-3	-3	-3	-2	-6	-2	-	69	-	20	-100	-100	25	25
	Old R. at Rock Slough	ALL	24	8	-	91	-	56	29	27	3	1	-1	-2	0	-1	2	0	-2	-2	16	6	16	6	11	3	16	10
		DROUGHT	2	19	-	-	-	-	22	43	5	7	-2	-2	1	-1	-2	-2	-6	-3	68	32	69	14	-31	-26	15	15
Western Delta	Sac. R. at Emmaton	ALL	-	-	-	-	-	-	25	29	10	12	-2	2	-3	-1	-10	-9	-24	-6	-100	-100	-	-	-	-	-	-
		DROUGHT	-	-	-	-	-	-	54	-	8	36	-6	3	-7	-3	-45	-30	-100	-	-	-	-	-	-	-	-	-
	SJR at Antioch	ALL	-	-	-	-	-	-	-	-	-	-	-8	17	-13	1	-	-	-	-	-	-	-	-	-	-	-	-
		DROUGHT	-	-	-	-	-	-	-	-	-	-	-35	92	-33	-12	-	-	-	-	-	-	-	-	-	-	-	-
	Sac. R. at Mallard Island	ALL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		DROUGHT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Major Diversions (Pum Stations)	NBA at Barker Slough PP	ALL	1	1	1	1	1	1	1	2	2	3	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1
		DROUGHT	1	1	1	1	1	1	1	1	1	1	1	2	1	2	1	1	1	1	1	1	1	1	1	1	1	1
	Contra Costa PP #1	ALL	21	-4	36	17	-	73	64	44	-1	11	7	-2	2	-3	7	6	-1	-2	7	4	26	6	14	11	17	9
		DROUGHT	0	-25	21	72	-	-	78	-	-9	-3	1	2	2	0	2	4	-5	-3	27	18	-	43	5	-8	17	14
	Banks PP	ALL	22	13	48	35	63	42	58	49	23	20	21	18	17	14	6	3	4	3	14	9	21	11	24	20	24	18
		DROUGHT	6	3	48	69	94	70	49	66	15	16	55	42	44	33	16	11	-2	-3	42	32	62	22	17	10	32	26
	Jones PP	ALL	20	15	46	36	40	21	63	45	44	32	47	40	19	16	18	15	14	17	8	5	13	6	20	17	27	21
		DROUGHT	20	24	43	64	46	26	-	-	-	62	-	-	26	21	37	33	10	10	24	15	46	20	4	1	42	34

[a] ALL: Water years 1975-1991 represent the 16-year period modeled using DSM2. DROUGHT: Represents a 5 consecutive year (water years 1987-1991) drought period consisting of dry and critical water year types (as defined by the Sacramento Valley 40-30-30 water year hydrologic classification index).

NOTES:

-- Positive values indicate that implementation of the Alternative increases assimilative capacity available under Existing Conditions or the No Action Alternative ELT (i.e., water quality improves under the Alternative, relative to Existing Conditions or the No Action Alternative ELT). Negative values indicate that implementation of the Alternative decreases assimilative capacity available under Existing Conditions or the No Action Alternative ELT (i.e., water quality degradation occurs under the Alternative, relative to Existing Conditions or the No Action Alternative ELT). Values of -100% represent instances where all available assimilative capacity is used under the Alternative, and therefore concentrations are at or above the criteria.

-- Regulatory objective is the state secondary maximum contaminant level (MCL) incorporated by reference in the Region 2 and 5 Basin Plans.

Table Cl-14. Alternative 4A-H4 ELT percent use of assimilative capacity available under existing conditions and No Action Alternative ELT relative to the 250 mg/L secondary MCL. Calculation of chloride concentrations was based on a mass balance approach.

Chloride			OCT		NOV		DEC		JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		Annual Avg. Change	
Alt 4 ELT Scn H4	Location	Period [a]	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT
Delta Interior	Moke. R. (SF) at Staten Island	ALL	-2	-2	-1	-1	-1	-1	-1	-1	-1	-1	-2	-2	-1	-1	-1	-1	-3	-3	-3	-3	-2	-2	-2	-2	-2	-2
		DROUGHT	-1	-1	-1	-1	0	-1	-1	-1	0	-1	-1	-2	-1	-1	-1	-1	-3	-3	-4	-4	-3	-2	-1	-1	-2	-
	SJR at Buckley Cove	ALL	1	0	1	0	3	-1	1	-1	1	-1	1	-1	2	-1	2	-1	4	-1	6	0	6	-1	3	0	3	-1
		DROUGHT	2	0	2	0	5	0	4	-1	2	-1	2	-1	4	-2	4	-2	8	-2	8	-1	11	-2	4	0	5	-
	Franks Tract	ALL	-	-	-	-	-	-	45	58	3	4	-4	-3	-4	-3	-3	-2	-3	-3	-	54	-	92	-	-	65	39
		DROUGHT	-	-	-	-	-	-	44	-	4	11	-1	1	-2	-1	-3	-1	-5	0	-	-	-	-	-	-	-	-
	Old R. at Rock Slough	ALL	-	24	-	-	-	-	38	53	1	2	-3	-3	-2	-1	-1	-1	-5	-5	54	28	77	38	-	49	38	23
		DROUGHT	-	-	-	-	-	-	13	86	4	9	0	1	-1	-1	-3	-2	-5	-2	-	-	-	-	-	-	48	-
Western Delta	Sac. R. at Emmaton	ALL	-	-	-	-	-	-	38	55	8	13	-2	2	-3	0	-10	-8	-83	-42	-	-	-	-	-	-	-	-
		DROUGHT	-	-	-	-	-	-	-	-	6	38	-5	2	-6	-2	-82	-67	-	-	-	-	-	-	-	-	-	-
	SJR at Antioch	ALL	-	-	-	-	-	-	-	-	-	-	-6	16	-8	11	-	-	-	-	-	-	-	-	-	-	-	-
		DROUGHT	-	-	-	-	-	-	-	-	-	-	-21	64	-32	20	-	-	-	-	-	-	-	-	-	-	-	-
	Sac. R. at Mallard Island	ALL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		DROUGHT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Major Diversions (Pumping Stations)	NBA at Barker Slough PP	ALL	3	2	2	2	1	1	2	2	2	3	2	2	2	2	3	3	4	3	5	4	4	3	3	3	3	3
		DROUGHT	4	4	2	3	1	1	1	1	1	2	2	2	2	2	3	3	4	4	5	4	5	5	4	4	3	-
	Contra Costa PP #1	ALL	-	-21	-	-	-	-	83	52	0	12	-4	-3	-4	-4	-1	0	-5	-5	24	18	-	50	90	84	29	18
		DROUGHT	-	-	-	-	-	-	-	-	-4	5	1	3	-1	-1	-2	-1	-5	-3	-	74	-	-	-	-88	45	-
	Banks PP	ALL	62	35	-	-	-	95	73	79	22	26	21	21	16	17	18	18	12	12	36	25	71	41	84	67	46	37
		DROUGHT	53	33	-	-	-	-	77	-	7	15	19	19	16	16	12	12	6	7	-	76	-	-	26	4	51	-
	Jones PP	ALL	73	54	-	-	62	41	32	34	22	23	26	26	25	25	23	23	13	13	30	19	44	25	51	38	38	31
		DROUGHT	-	-	-	-	61	49	26	35	7	6	18	17	17	17	18	18	1	2	74	40	-	35	-6	-13	35	-

[a] ALL: Water years 1975-1991 represent the 16-year period modeled using DSM2. DROUGHT: Represents a 5 consecutive year (water years 1987-1991) drought period consisting of dry and critical water year types (as defined by the Sacramento Valley 40-30-30 water year hydrologic classification index).

NOTES:

-- Positive values indicate that implementation of the Alternative increases assimilative capacity available under Existing Conditions or the No Action Alternative ELT (i.e., water quality improves under the Alternative, relative to Existing Conditions or the No Action Alternative ELT). Negative values indicate that implementation of the Alternative decreases assimilative capacity available under Existing Conditions or the No Action Alternative ELT (i.e., water quality degradation occurs under the Alternative, relative to Existing Conditions or the No Action Alternative ELT). Values of -100% represent instances where all available assimilative capacity is used under the Alternative, and therefore concentrations are at or above the criteria.

-- Regulatory objective is the state secondary maximum contaminant level (MCL) incorporated by reference in the Region 2 and 5 Basin Plans.

Table Cl-15. Alternative 4A-H4 ELT percent use of assimilative capacity available under existing conditions and No Action Alternative ELT relative to the 250 mg/L secondary MCL. Calculation of chloride concentrations was based on EC-chloride relationship.

Chloride			OCT		NOV		DEC		JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		Annual Avg. Change	
Alt 4 ELT Scn H4	Location	Period [a]	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT
Delta Interior	Moke. R. (SF) at Staten Island	ALL	-1	-1	-1	-1	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	0	0	-1	-1
		DROUGHT	0	0	0	0	0	0	0	-1	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	0	0	-1	-1
	SJR at Buckley Cove	ALL	5	0	9	1	18	-4	24	-4	12	-5	9	-4	12	4	6	-1	4	-3	5	-4	7	-4	8	0	9	-2
		DROUGHT	11	0	16	1	39	-2	85	-9	42	-20	35	-16	39	12	12	-2	19	-5	6	-11	8	-14	14	0	20	-5
	Franks Tract	ALL	80	36	-	-	-	91	34	30	4	2	-1	-2	-3	-3	-2	-2	-2	-2	39	21	35	20	35	14	25	16
		DROUGHT	-	-	-	-	-	-	32	51	4	10	-2	0	-4	-4	-5	-4	-6	-2	-	94	-	33	-100	-100	29	29
	Old R. at Rock Slough	ALL	20	5	-	88	-	58	29	27	3	0	-2	-3	-2	-3	-1	-2	-4	-4	23	12	24	13	8	0	16	10
		DROUGHT	6	24	-	-	-	-	12	32	5	7	-2	-2	-5	-6	-5	-5	-7	-4	85	45	85	25	-46	-43	17	16
Western Delta	Sac. R. at Emmaton	ALL	-	-	-	-	-	-	28	31	10	13	-2	2	-2	0	-7	-7	-31	-15	-100	-100	-	-	-	-	-	-
		DROUGHT	-	-	-	-	-	-	70	-	12	41	-6	2	-6	-2	-41	-24	-100	-	-	-	-	-	-	-	-	-
	SJR at Antioch	ALL	-	-	-	-	-	-	-	-	-	-	-2	25	-7	8	-	-	-	-	-	-	-	-	-	-	-	-
		DROUGHT	-	-	-	-	-	-	-	-	-	-	-33	98	-22	3	-	-	-	-	-	-	-	-	-	-	-	-
	Sac. R. at Mallard Island	ALL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		DROUGHT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Major Diversions (Pump Stations)	NBA at Barker Slough PP	ALL	1	1	1	1	1	1	1	2	2	3	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1
		DROUGHT	1	1	1	1	1	1	1	1	1	1	1	2	1	2	1	1	1	1	1	1	1	1	1	1	1	1
	Contra Costa PP #1	ALL	15	-9	37	18	-	72	94	51	-2	11	5	-3	0	-5	3	2	-3	-4	10	7	41	19	14	11	18	10
		DROUGHT	-8	-32	31	66	-	-	-	-	-6	0	1	2	-4	-7	-3	-1	-6	-5	37	28	-	65	3	-10	20	16
	Banks PP	ALL	22	14	53	40	63	42	68	59	26	23	22	19	13	10	14	11	7	6	15	10	29	18	25	21	27	21
		DROUGHT	14	11	54	75	-	81	87	-	22	23	65	51	49	38	29	24	5	4	49	38	83	38	4	-2	41	35
	Jones PP	ALL	33	27	47	38	43	24	51	34	40	28	46	39	23	20	15	12	8	10	12	9	17	10	16	13	27	21
		DROUGHT	46	53	59	83	65	42	81	51	91	46	-	-	37	31	32	28	0	0	25	16	42	17	-5	-8	40	32

[a] ALL: Water years 1975-1991 represent the 16-year period modeled using DSM2. DROUGHT: Represents a 5 consecutive year (water years 1987-1991) drought period consisting of dry and critical water year types (as defined by the Sacramento Valley 40-30-30 water year hydrologic classification index).

NOTES:

-- Positive values indicate that implementation of the Alternative increases assimilative capacity available under Existing Conditions or the No Action Alternative ELT (i.e., water quality improves under the Alternative, relative to Existing Conditions or the No Action Alternative ELT). Negative values indicate that implementation of the Alternative decreases assimilative capacity available under Existing Conditions or the No Action Alternative ELT (i.e., water quality degradation occurs under the Alternative, relative to Existing Conditions or the No Action Alternative ELT). Values of -100% represent instances where all available assimilative capacity is used under the Alternative, and therefore concentrations are at or above the criteria.

-- Regulatory objective is the state secondary maximum contaminant level (MCL) incorporated by reference in the Region 2 and 5 Basin Plans.

Table Cl-16. Period average change in chloride concentrations (mg/L) for Alternative 2D ELT relative to existing conditions and the No Action Alternative ELT. Calculation of chloride concentrations was based on a mass balance approach.

Chloride / Alt 2D ELT	Location	Period [a]	OCT		NOV		DEC		JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		Annual Avg. Change	
			Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT
Delta Interior	Moke. R. (SF) at Staten Island	ALL	4	4	4	3	2	2	4	4	3	4	4	4	4	4	3	3	6	6	5	6	5	5	4	4	4	4
			(35%)	(33%)	(29%)	(28%)	(13%)	(14%)	(18%)	(19%)	(17%)	(19%)	(25%)	(25%)	(23%)	(24%)	(19%)	(20%)	(32%)	(34%)	(30%)	(33%)	(40%)	(34%)	(31%)	(29%)	(25%)	(26%)
		DROUGHT	3	3	3	3	1	1	2	2	2	2	4	4	2	3	3	3	7	7	9	8	6	4	4	3	4	4
			(26%)	(26%)	(22%)	(21%)	(9%)	(12%)	(9%)	(10%)	(7%)	(10%)	(18%)	(22%)	(12%)	(15%)	(14%)	(17%)	(35%)	(39%)	(50%)	(47%)	(43%)	(29%)	(28%)	(24%)	(22%)	(22%)
	SJR at Buckley Cove	ALL	-2	0	-2	-1	-5	1	-2	3	-2	1	-2	1	-3	1	-3	1	-7	1	-11	0	-10	1	-5	0	-5	1
			(-3%)	(0%)	(-2%)	(-1%)	(-7%)	(1%)	(-3%)	(3%)	(-3%)	(2%)	(-2%)	(2%)	(-4%)	(2%)	(-4%)	(1%)	(-8%)	(2%)	(-12%)	(-0%)	(-11%)	(1%)	(-5%)	(-0%)	(-5%)	(1%)
		DROUGHT	-3	0	-4	0	-9	0	-6	3	-4	2	-4	2	-6	3	-6	3	-13	3	-15	0	-19	3	-7	0	-8	1
			(-3%)	(0%)	(-4%)	(-1%)	(-11%)	(0%)	(-7%)	(3%)	(-5%)	(2%)	(-4%)	(3%)	(-7%)	(3%)	(-7%)	(3%)	(-15%)	(4%)	(-17%)	(0%)	(-20%)	(4%)	(-8%)	(-0%)	(-9%)	(2%)
	Franks Tract	ALL	-83	-44	-210	-156	-111	-76	-36	-44	-2	-4	9	7	8	7	5	4	7	5	-55	-29	-40	-22	-44	-25	-46	-31
			(-29%)	(-17%)	(-55%)	(-48%)	(-37%)	(-29%)	(-23%)	(-26%)	(-3%)	(-6%)	(24%)	(18%)	(22%)	(18%)	(12%)	(9%)	(13%)	(10%)	(-29%)	(-17%)	(-17%)	(-10%)	(-15%)	(-9%)	(-26%)	(-20%)
		DROUGHT	-54	-60	-177	-185	-76	-65	-25	-44	-7	-18	3	-2	4	3	7	3	12	2	-127	-76	-73	-23	24	13	-41	-38
			(-15%)	(-17%)	(-40%)	(-41%)	(-20%)	(-18%)	(-12%)	(-20%)	(-10%)	(-23%)	(10%)	(-6%)	(18%)	(12%)	(23%)	(6%)	(23%)	(3%)	(-41%)	(-29%)	(-23%)	(-8%)	(7%)	(4%)	(-19%)	(-18%)
	Old R. at Rock Slough	ALL	-41	-11	-159	-119	-96	-65	-29	-39	0	-2	7	6	2	1	0	0	8	8	-40	-20	-32	-15	-26	-13	-34	-22
			(-17%)	(-5%)	(-51%)	(-44%)	(-37%)	(-29%)	(-19%)	(-24%)	(-1%)	(-3%)	(15%)	(12%)	(4%)	(2%)	(1%)	(0%)	(16%)	(15%)	(-26%)	(-15%)	(-16%)	(-9%)	(-11%)	(-5%)	(-22%)	(-16%)
		DROUGHT	-13	-16	-129	-145	-65	-53	-17	-41	-7	-15	1	-2	0	-1	5	3	11	4	-97	-59	-66	-23	21	17	-30	-28
			(-5%)	(-6%)	(-37%)	(-40%)	(-21%)	(-18%)	(-9%)	(-19%)	(-10%)	(-19%)	(2%)	(-5%)	(0%)	(-3%)	(14%)	(8%)	(26%)	(9%)	(-41%)	(-29%)	(-24%)	(-10%)	(7%)	(6%)	(-17%)	(-16%)
Western Delta	Sac. R. at Emmaton	ALL	-281	-252	-300	-224	-42	-51	-33	-44	-13	-21	5	-3	9	3	20	18	15	-4	74	44	137	67	-10	38	-35	-36
			(-33%)	(-31%)	(-34%)	(-27%)	(-10%)	(-11%)	(-22%)	(-27%)	(-19%)	(-28%)	(17%)	(-9%)	(23%)	(6%)	(16%)	(14%)	(7%)	(-2%)	(23%)	(12%)	(29%)	(12%)	(-1%)	(5%)	(-9%)	(-10%)
		DROUGHT	-346	-344	-372	-343	-4	-63	-34	-79	-6	-38	10	-5	14	6	65	32	61	21	235	176	249	93	196	22	6	-44
			(-30%)	(-30%)	(-30%)	(-28%)	(-1%)	(-8%)	(-15%)	(-29%)	(-5%)	(-27%)	(21%)	(-9%)	(29%)	(11%)	(37%)	(15%)	(20%)	(6%)	(60%)	(33%)	(42%)	(12%)	(17%)	(2%)	(1%)	(-8%)
	SJR at Antioch	ALL	-873	-549	-987	-618	-290	-217	-184	-198	-59	-83	16	-11	19	0	17	12	0	-46	-35	-21	121	78	-260	9	-210	-137
			(-40%)	(-29%)	(-40%)	(-30%)	(-20%)	(-16%)	(-30%)	(-32%)	(-22%)	(-29%)	(14%)	(-8%)	(13%)	(0%)	(5%)	(3%)	(-0%)	(-7%)	(-3%)	(-2%)	(8%)	(5%)	(-12%)	(0%)	(-19%)	(-14%)
		DROUGHT	-853	-676	-1000	-674	-260	-244	-212	-297	-63	-161	20	-26	29	6	59	9	46	-17	48	60	290	220	263	119	-136	-140
			(-32%)	(-27%)	(-32%)	(-24%)	(-13%)	(-12%)	(-25%)	(-32%)	(-15%)	(-32%)	(12%)	(-13%)	(14%)	(3%)	(10%)	(2%)	(5%)	(-2%)	(3%)	(3%)	(17%)	(13%)	(10%)	(4%)	(-10%)	(-10%)
	Sac. R. at Mallard Island	ALL	-1084	-634	-1096	-607	-359	-275	-255	-259	-66	-116	68	6	89	48	85	59	35	-76	62	75	244	151	-412	55	-224	-131
			(-23%)	(-15%)	(-22%)	(-14%)	(-11%)	(-9%)	(-15%)	(-15%)	(-7%)	(-12%)	(15%)	(1%)	(12%)	(6%)	(6%)	(4%)	(2%)	(-4%)	(2%)	(2%)	(7%)	(4%)	(-10%)	(1%)	(-9%)	(-5%)
		DROUGHT	-1148	-726	-1266	-699	-388	-337	-334	-396	-63	-230	90	18	122	79	77	42	55	7	161	184	376	247	191	73	-177	-145
			(-21%)	(-15%)	(-21%)	(-13%)	(-9%)	(-8%)	(-14%)	(-16%)	(-4%)	(-13%)	(13%)	(2%)	(11%)	(7%)	(4%)	(2%)	(2%)	(0%)	(4%)	(5%)	(10%)	(6%)	(4%)	(1%)	(-5%)	(-5%)
Major Diversions (Pumping Stations)	NBA at Barker Slough PP	ALL	-6	-5	-4	-4	-3	-3	-4	-5	-5	-7	-5	-5	-6	-5	-6	-6	-9	-8	-11	-9	-10	-8	-7	-6	-6	-6
			(-36%)	(-31%)	(-28%)	(-29%)	(-23%)	(-23%)	(-29%)	(-31%)	(-32%)	(-39%)	(-31%)	(-34%)	(-35%)	(-31%)	(-38%)	(-36%)	(-46%)	(-42%)	(-49%)	(-44%)	(-46%)	(-42%)	(-39%)	(-37%)	(-37%)	(-36%)
		DROUGHT	-10	-8	-5	-7	-2	-3	-2	-2	-3	-4	-4	-5	-5	-6	-7	-7	-10	-8	-11	-10	-11	-11	-10	-10	-7	-7
			(-47%)	(-43%)	(-32%)	(-36%)	(-17%)	(-21%)	(-18%)	(-19%)	(-24%)	(-27%)	(-25%)	(-30%)	(-31%)	(-35%)	(-39%)	(-41%)	(-46%)	(-42%)	(-50%)	(-47%)	(-49%)	(-48%)	(-47%)	(-46%)	(-38%)	(-38%)
	Contra Costa PP #1	ALL	-34	6	-58	-33	-102	-74	-44	-29	8	-10	8	5	7	7	-1	-2	8	8	-19	-13	-45	-15	-26	-25	-25	-15
			(-14%)	(3%)	(-23%)	(-15%)	(-43%)	(-35%)	(-25%)	(-18%)	(10%)	(-11%)	(14%)	(9%)	(13%)	(13%)	(-2%)	(-3%)	(15%)	(14%)	(-16%)	(-11%)	(-22%)	(-8%)	(-12%)	(-11%)	(-17%)	(-11%)
		DROUGHT	-11	26	-31	-54	-105	-110	-27	-45	11	-4	-1	-6	-1	-2	1	-2	11	5	-57	-43	-114	-49	-10	8	-28	-23
			(-4%)	(10%)	(-10%)	(-17%)	(-35%)	(-36%)	(-12%)	(-19%)	(13%)	(-4%)	(-3%)	(-12%)	(-3%)	(-4%)	(2%)	(-4%)	(26%)	(10%)	(-31%)	(-26%)	(-36%)	(-20%)	(-4%)	(3%)	(-16%)	(-13%)
	Banks PP	ALL	-54	-37	-112	-91	-100	-79	-75	-78	-39	-44	-42	-43	-36	-37	-22	-22	-14	-15	-44	-30	-63	-42	-69	-61	-56	-48
			(-33%)	(-25%)	(-55%)	(-50%)	(-53%)	(-47%)	(-54%)	(-55%)	(-46%)	(-51%)	(-52%)	(-53%)	(-51%)	(-51%)	(-30%)	(-30%)	(-21%)	(-22%)	(-42%)	(-33%)	(-42%)	(-32%)	(-41%)	(-38%)	(-46%)	(-42%)
		DROUGHT	-12	-4	-84	-98	-82	-71	-50	-68	-9	-19	-32	-32	-22	-22	-13	-14	3	2	-97	-77	-106	-57	-32	-21	-45	-40
			(-6%)	(-2%)	(-37%)	(-41%)	(-36%)	(-33%)	(-30%)	(-36%)	(-9%)	(-19%)	(-45%)	(-49%)	(-34%)	(-34%)	(-23%)	(-23%)	(5%)	(3%)	(-57%)	(-52%)	(-47%)	(-32%)	(-16%)	(-11%)	(-31%)	(-29%)
	Jones PP	ALL	-58	-45	-100	-85	-58	-44	-60	-61	-41	-42	-46	-47	-41	-41	-43	-43	-33	-34	-35	-22	-28	-11	-56	-46	-50	-43
			(-38%)	(-33%)	(-54%)	(-50%)	(-38%)	(-31%)	(-52%)	(-53%)	(-51%)	(-52%)	(-61%)	(-61%)	(-51%)	(-51%)	(-52%)	(-52%)	(-49%)	(-50%)	(-31%)	(-22%)	(-20%)	(-9%)	(-36%)	(-32%)	(-43%)	(-39%)
		DROUGHT	-52	-56	-76	-95	-29	-23	-36	-44	-22	-21	-34	-33	-25	-25	-34	-35	-13	-16	-64	-40	-61	-21	-12	-6	-38	-35
			(-29%)	(-31%)	(-38%)	(-43%)	(-17%)	(-14%)	(-27%)	(-31%)	(-26%)	(-25%)	(-44%)	(-43%)	(-32%)	(-32%)	(-44%)	(-46%)	(-25%)	(-29%)	(-42%)	(-31%)	(-30%)	(-13%)	(-7%)	(-4%)	(-29%)	(-27%)

[a] ALL: Water years 1976-1991 represent the 16-year period modeled using DSM2. DROUGHT: Represents a 5 consecutive year (water years 1987-1991) drought period consisting of dry and critical water year types (as defined by the Sacramento Valley 40-30-30 water year hydrologic classification index).

Table Cl-17. Period average change in chloride concentrations (mg/L) for Alternative 2D ELT relative to existing conditions and the No Action Alternative ELT. Calculation of chloride concentrations was based on EC-chloride relationship.

Chloride			OCT		NOV		DEC		JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		Annual Avg. Change	
Alt 2D ELT	Location	Period [a]	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT
Delta Interior	Moke. R. (SF) at Staten Island	ALL	1	1	2	1	1	1	3	3	3	3	3	3	2	2	1	1	2	2	1	1	1	1	1	1	2	2
			(9%)	(9%)	(9%)	(9%)	(4%)	(5%)	(12%)	(13%)	(12%)	(13%)	(14%)	(14%)	(12%)	(12%)	(8%)	(9%)	(10%)	(10%)	(7%)	(7%)	(8%)	(7%)	(7%)	(6%)	(10%)	(10%)
		DROUGHT	1	1	1	1	1	1	1	2	1	2	3	3	1	2	2	2	2	2	2	2	1	1	1	1	1	2
			(7%)	(7%)	(7%)	(7%)	(3%)	(4%)	(6%)	(7%)	(4%)	(6%)	(10%)	(13%)	(7%)	(9%)	(8%)	(9%)	(13%)	(13%)	(11%)	(11%)	(9%)	(6%)	(7%)	(6%)	(8%)	(8%)
	SJR at Buckley Cove	ALL	-8	0	-12	-1	-20	5	-22	3	-13	6	-11	5	-18	-6	-9	1	-7	4	-9	5	-11	6	-12	0	-13	2
			(-8%)	(-0%)	(-11%)	(-1%)	(-15%)	(5%)	(-13%)	(3%)	(-9%)	(4%)	(-8%)	(4%)	(-18%)	(-7%)	(-12%)	(2%)	(-7%)	(4%)	(-9%)	(5%)	(-11%)	(6%)	(-11%)	(-0%)	(-11%)	(2%)
		DROUGHT	-14	0	-19	-1	-32	2	-32	7	-14	12	-12	9	-32	-12	-15	3	-23	7	-12	14	-15	19	-16	0	-20	5
			(-11%)	(-0%)	(-13%)	(-1%)	(-19%)	(2%)	(-15%)	(4%)	(-6%)	(6%)	(-6%)	(4%)	(-20%)	(-8%)	(-12%)	(3%)	(-18%)	(7%)	(-10%)	(16%)	(-12%)	(22%)	(-12%)	(-0%)	(-13%)	(4%)
	Franks Tract	ALL	-51	-32	-126	-99	-80	-56	-33	-30	-3	0	3	4	5	6	2	3	3	3	-36	-18	-27	-14	-25	-14	-31	-21
			(-27%)	(-19%)	(-55%)	(-48%)	(-38%)	(-30%)	(-25%)	(-23%)	(-5%)	(-1%)	(9%)	(10%)	(17%)	(18%)	(7%)	(11%)	(8%)	(6%)	(-28%)	(-16%)	(-17%)	(-10%)	(-13%)	(-8%)	(-26%)	(-19%)
		DROUGHT	-29	-42	-106	-121	-58	-52	-27	-36	-7	-17	5	2	6	7	8	5	13	5	-83	-52	-47	-14	22	12	-25	-25
			(-13%)	(-17%)	(-39%)	(-43%)	(-22%)	(-20%)	(-15%)	(-19%)	(-9%)	(-20%)	(14%)	(4%)	(21%)	(23%)	(25%)	(17%)	(32%)	(9%)	(-39%)	(-29%)	(-21%)	(-7%)	(9%)	(5%)	(-16%)	(-16%)
	Old R. at Rock Slough	ALL	-22	-8	-92	-73	-68	-47	-21	-19	-3	2	1	3	-1	2	-3	0	5	5	-25	-12	-21	-9	-12	-5	-22	-13
			(-15%)	(-6%)	(-45%)	(-43%)	(-38%)	(-30%)	(-16%)	(-15%)	(-4%)	(3%)	(3%)	(7%)	(-1%)	(4%)	(-6%)	(1%)	(12%)	(13%)	(-25%)	(-13%)	(-17%)	(-8%)	(-8%)	(-3%)	(-20%)	(-13%)
		DROUGHT	-1	-10	-73	-91	-49	-43	-19	-31	-9	-12	3	4	0	3	4	4	12	7	-63	-39	-43	-15	18	14	-18	-17
			(-1%)	(-5%)	(-34%)	(-39%)	(-21%)	(-20%)	(-11%)	(-17%)	(-10%)	(-13%)	(5%)	(6%)	(0%)	(6%)	(10%)	(9%)	(33%)	(16%)	(-39%)	(-28%)	(-23%)	(-9%)	(10%)	(7%)	(-13%)	(-13%)
Western Delta	Sac. R. at Emmaton	ALL	-191	-177	-197	-158	-40	-42	-31	-34	-17	-21	4	-5	7	1	15	14	15	2	59	35	103	51	10	30	-22	-25
			(-33%)	(-32%)	(-36%)	(-31%)	(-13%)	(-13%)	(-24%)	(-26%)	(-24%)	(-28%)	(11%)	(-11%)	(19%)	(3%)	(17%)	(16%)	(8%)	(1%)	(26%)	(14%)	(31%)	(13%)	(2%)	(6%)	(-8%)	(-10%)
		DROUGHT	-224	-240	-239	-242	-16	-56	-31	-69	-12	-41	12	-5	14	6	60	30	69	26	191	140	204	84	165	34	16	-28
			(-29%)	(-30%)	(-31%)	(-31%)	(-3%)	(-10%)	(-16%)	(-30%)	(-11%)	(-29%)	(28%)	(-9%)	(38%)	(13%)	(50%)	(21%)	(28%)	(9%)	(58%)	(37%)	(46%)	(15%)	(21%)	(4%)	(4%)	(-7%)
	SJR at Antioch	ALL	-589	-371	-639	-413	-242	-156	-162	-152	-72	-83	11	-17	17	-2	21	15	12	-22	-6	-6	103	74	-137	28	-140	-92
			(-40%)	(-29%)	(-43%)	(-33%)	(-24%)	(-17%)	(-33%)	(-31%)	(-28%)	(-31%)	(9%)	(-11%)	(15%)	(-2%)	(8%)	(6%)	(2%)	(-4%)	(-1%)	(-1%)	(10%)	(7%)	(-9%)	(2%)	(-19%)	(-13%)
		DROUGHT	-561	-473	-644	-479	-232	-189	-188	-251	-78	-164	30	-27	34	8	80	26	79	2	83	66	265	204	253	129	-73	-96
			(-31%)	(-27%)	(-34%)	(-27%)	(-16%)	(-13%)	(-26%)	(-32%)	(-20%)	(-34%)	(19%)	(-12%)	(24%)	(5%)	(21%)	(6%)	(12%)	(0%)	(7%)	(5%)	(21%)	(15%)	(14%)	(7%)	(-7%)	(-9%)
	Sac. R. at Mallard Island	ALL	-868	-457	-850	-465	-365	-207	-246	-223	-109	-136	75	-5	96	35	109	72	71	-35	81	56	224	154	-248	74	-169	-95
			(-28%)	(-17%)	(-29%)	(-18%)	(-16%)	(-10%)	(-19%)	(-18%)	(-13%)	(-16%)	(17%)	(-1%)	(19%)	(6%)	(12%)	(8%)	(5%)	(-2%)	(4%)	(3%)	(9%)	(6%)	(-8%)	(3%)	(-10%)	(-6%)
		DROUGHT	-861	-537	-940	-554	-395	-265	-323	-368	-101	-256	134	7	155	78	187	92	151	43	228	197	401	282	271	134	-91	-96
			(-23%)	(-16%)	(-25%)	(-16%)	(-12%)	(-9%)	(-17%)	(-18%)	(-7%)	(-16%)	(20%)	(1%)	(21%)	(10%)	(13%)	(6%)	(7%)	(2%)	(8%)	(7%)	(14%)	(9%)	(8%)	(4%)	(-4%)	(-4%)
Major Diversions (Pumping Stations)	NBA at Barker Slough PP	ALL	-2	-2	-2	-2	-2	-2	-3	-4	-4	-6	-4	-4	-4	-3	-3	-2	-2	-2	-2	-2	-2	-1	-2	-1	-3	-3
			(-11%)	(-9%)	(-11%)	(-10%)	(-11%)	(-10%)	(-17%)	(-18%)	(-20%)	(-25%)	(-18%)	(-20%)	(-18%)	(-16%)	(-14%)	(-13%)	(-12%)	(-10%)	(-11%)	(-9%)	(-10%)	(-8%)	(-10%)	(-9%)	(-14%)	(-14%)
		DROUGHT	-3	-2	-2	-3	-1	-2	-2	-2	-3	-3	-3	-4	-3	-4	-3	-3	-3	-2	-2	-2	-2	-2	-2	-2	-2	-3
			(-15%)	(-13%)	(-12%)	(-14%)	(-8%)	(-9%)	(-11%)	(-11%)	(-14%)	(-16%)	(-14%)	(-18%)	(-15%)	(-18%)	(-15%)	(-17%)	(-13%)	(-11%)	(-12%)	(-10%)	(-12%)	(-11%)	(-12%)	(-12%)	(-13%)	(-14%)
	Contra Costa PP #1	ALL	-18	6	-32	-17	-76	-57	-45	-26	14	-2	-10	5	-2	6	-13	-11	3	5	-11	-6	-31	-10	-15	-12	-20	-10
			(-11%)	(4%)	(-20%)	(-12%)	(-42%)	(-35%)	(-24%)	(-16%)	(13%)	(-2%)	(-11%)	(6%)	(-3%)	(8%)	(-19%)	(-16%)	(5%)	(12%)	(-13%)	(-7%)	(-22%)	(-9%)	(-10%)	(-9%)	(-16%)	(-9%)
		DROUGHT	0	19	-13	-31	-79	-84	-33	-41	12	3	-2	-3	-2	2	-4	-8	11	7	-35	-26	-76	-33	-5	6	-19	-16
			(-0%)	(11%)	(-7%)	(-15%)	(-36%)	(-36%)	(-16%)	(-19%)	(11%)	(3%)	(-3%)	(-4%)	(-3%)	(3%)	(-6%)	(-12%)	(23%)	(15%)	(-27%)	(-22%)	(-34%)	(-19%)	(-3%)	(4%)	(-13%)	(-11%)
	Banks PP	ALL	-32	-22	-61	-50	-68	-52	-71	-65	-37	-33	-38	-33	-25	-20	-11	-5	-6	-4	-25	-18	-37	-24	-38	-33	-37	-30
			(-28%)	(-21%)	(-47%)	(-42%)	(-47%)	(-41%)	(-51%)	(-49%)	(-36%)	(-34%)	(-44%)	(-40%)	(-30%)	(-26%)	(-14%)	(-8%)	(-9%)	(-7%)	(-35%)	(-27%)	(-37%)	(-27%)	(-35%)	(-32%)	(-37%)	(-32%)
		DROUGHT	-6	-3	-48	-59	-66	-56	-55	-63	-17	-19	-70	-59	-47	-37	-23	-16	8	10	-62	-50	-66	-35	-19	-13	-39	-33
			(-5%)	(-2%)	(-31%)	(-36%)	(-38%)	(-33%)	(-32%)	(-35%)	(-13%)	(-14%)	(-52%)	(-48%)	(-36%)	(-31%)	(-21%)	(-16%)	(11%)	(14%)	(-61%)	(-56%)	(-42%)	(-28%)	(-14%)	(-10%)	(-29%)	(-26%)
	Jones PP	ALL	-33	-27	-53	-44	-40	-25	-70	-57	-55	-44	-62	-56	-32	-28	-30	-25	-26	-30	-16	-12	-16	-6	-28	-23	-38	-31
			(-30%)	(-26%)	(-41%)	(-37%)	(-27%)	(-19%)	(-46%)	(-41%)	(-44%)	(-36%)	(-52%)	(-49%)	(-36%)	(-33%)	(-39%)	(-36%)	(-42%)	(-45%)	(-20%)	(-15%)	(-16%)	(-7%)	(-26%)	(-23%)	(-35%)	(-31%)
		DROUGHT	-35	-38	-42	-55	-31	-20	-60	-49	-70	-51	-100	-91	-35	-30	-51	-47	-19	-20	-36	-25	-36	-13	-6	-2	-43	-37
			(-26%)	(-28%)	(-28%)	(-34%)	(-17%)	(-12%)	(-32%)	(-27%)	(-37%)	(-30%)	(-52%)	(-49%)	(-26%)	(-23%)	(-45%)	(-43%)	(-30%)	(-31%)	(-34%)	(-26%)	(-24%)	(-11%)	(-4%)	(-2%)	(-30%)	(-27%)

[a] ALL: Water years 1976-1991 represent the 16-year period modeled using DSM2. DROUGHT: Represents a 5 consecutive year (water years 1987-1991) drought period consisting of dry and critical water year types (as defined by the Sacramento Valley 40-30-30 water year hydrologic classification index).

Table Cl-18. Alternative 2D ELT percent use of assimilative capacity available under existing conditions and No Action Alternative ELT relative to the 250 mg/L secondary MCL. Calculation of chloride concentrations was based on a mass balance approach.

Chloride			OCT		NOV		DEC		JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		Annual Avg. Change	
Alt 2D ELT	Location	Period [a]	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT
Delta Interior	Moke. R. (SF) at Staten Island	ALL	-2	-2	-2	-1	-1	-1	-2	-2	-1	-2	-2	-2	-2	-2	-1	-1	-3	-3	-2	-3	-2	-2	-2	-1	-2	-2
		DROUGHT	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-2	-2	-1	-1	-1	-1	-3	-3	-4	-4	-3	-2	-2	-1	-2	-
	SJR at Buckley Cove	ALL	1	0	1	0	3	-1	1	-1	1	-1	1	-1	2	-1	2	-1	5	-1	7	0	6	-1	3	0	3	0
		DROUGHT	2	0	2	0	6	0	4	-1	2	-1	2	-1	4	-2	4	-2	8	-2	9	0	12	-2	4	0	5	-
	Franks Tract	ALL	-	-	-	-	-	-	38	51	1	2	-4	-3	-4	-3	-3	-2	-4	-3	95	34	-	56	-	-	60	34
		DROUGHT	-	-	-	-	-	-	54	-	4	10	-1	1	-2	-1	-3	-1	-6	-1	-	-	-	-	-	-	-	-
	Old R. at Rock Slough	ALL	-	28	-	-	-	-	30	44	0	1	-4	-3	-1	-1	0	0	-4	-4	40	17	53	20	-	64	34	20
		DROUGHT	-	-	-	-	-	-	29	-	4	9	0	1	0	0	-2	-1	-5	-2	-	-	-	-	-	-	43	-
Western Delta	Sac. R. at Emmaton	ALL	-	-	-	-	-	-	34	51	7	12	-2	2	-4	-1	-15	-14	-55	51	-	-	-	-	-	-	-	-
		DROUGHT	-	-	-	-	-	-	-	-	4	35	-5	3	-7	-3	-90	-61	-	-	-	-	-	-	-	-	-	-
	SJR at Antioch	ALL	-	-	-	-	-	-	-	-	-	-	-12	10	-17	0	-	-	-	-	-	-	-	-	-	-	-	-
		DROUGHT	-	-	-	-	-	-	-	-	-	-	-22	62	-55	-20	-	-	-	-	-	-	-	-	-	-	-	-
	Sac. R. at Mallard Island	ALL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		DROUGHT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Major Diversions (Pumping Stations)	NBA at Barker Slough PP	ALL	3	2	2	2	1	1	2	2	2	3	2	2	2	2	3	3	4	3	5	4	4	4	3	3	3	3
		DROUGHT	4	4	2	3	1	1	1	1	1	2	2	2	2	2	3	3	4	4	5	4	5	5	4	4	3	-
	Contra Costa PP #1	ALL	-	-13	-	-	-	-	62	34	-4	7	-4	-3	-4	-4	1	1	-4	-4	15	10	98	19	79	73	24	13
		DROUGHT	-	-	-	-	-	-	86	-	-6	3	1	3	1	1	0	1	-5	-2	84	54	-	-	-	-61	38	-
	Banks PP	ALL	64	36	-	-	-	97	68	73	23	27	23	24	20	21	12	12	8	8	30	19	63	35	85	68	44	36
		DROUGHT	23	7	-	-	-	-	62	-	5	13	18	18	12	12	7	7	-1	-1	93	62	-	80	65	35	42	-
	Jones PP	ALL	59	41	-	-	61	40	44	46	24	25	27	27	24	25	25	25	18	19	25	14	26	9	58	44	37	31
		DROUGHT	74	83	-	-	39	29	31	40	13	13	20	19	15	14	20	21	7	8	66	34	-	25	17	8	33	-

[a] ALL: Water years 1975-1991 represent the 16-year period modeled using DSM2. DROUGHT: Represents a 5 consecutive year (water years 1987-1991) drought period consisting of dry and critical water year types (as defined by the Sacramento Valley 40-30-30 water year hydrologic classification index).

NOTES:

-- Positive values indicate that implementation of the Alternative increases assimilative capacity available under Existing Conditions or the No Action Alternative ELT (i.e., water quality improves under the Alternative, relative to Existing Conditions or the No Action Alternative ELT). Negative values indicate that implementation of the Alternative decreases assimilative capacity available under Existing Conditions or the No Action Alternative ELT (i.e., water quality degradation occurs under the Alternative, relative to Existing Conditions or the No Action Alternative ELT). Values of -100% represent instances where all available assimilative capacity is used under the Alternative, and therefore concentrations are at or above the criteria.

-- Regulatory objective is the state secondary maximum contaminant level (MCL) incorporated by reference in the Region 2 and 5 Basin Plans.

Table Cl-19. Alternative 2D ELT percent use of assimilative capacity available under existing conditions and No Action Alternative ELT relative to the 250 mg/L secondary MCL. Calculation of chloride concentrations was based on EC-chloride relationship.

Chloride			OCT		NOV		DEC		JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		Annual Avg. Change	
Alt 2D ELT	Location	Period [a]	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT
Delta Interior	Moke. R. (SF) at Staten Island	ALL	-1	-1	-1	-1	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	0	0	-1	-1
		DROUGHT	-1	-1	0	0	0	0	-1	-1	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	0	0	-1	-1
	SJR at Buckley Cove	ALL	5	0	9	1	18	-4	25	-3	12	-4	10	-4	12	4	5	-1	4	-2	7	-3	8	-3	8	0	9	-2
		DROUGHT	11	0	17	1	40	-2	85	-9	42	-20	35	-15	38	12	12	-2	19	-5	9	-9	11	-12	14	0	21	-4
	Franks Tract	ALL	83	39	-	-	-	85	29	25	2	0	-2	-2	-2	-3	-1	-2	-2	-1	30	13	27	13	42	20	24	15
		DROUGHT	-	-	-	-	-	-	38	58	4	10	-3	-1	-3	-3	-3	-3	-6	-2	-	74	-	24	-100	-100	26	26
	Old R. at Rock Slough	ALL	23	8	-	89	98	53	18	16	1	-1	-1	-2	0	-1	1	0	-2	-2	17	7	17	7	12	5	15	9
		DROUGHT	2	19	-	-	-	-	25	47	5	7	-2	-2	0	-2	-2	-2	-6	-3	71	35	73	17	-30	-25	16	15
Western Delta	Sac. R. at Emmaton	ALL	-	-	-	-	-	-	25	28	10	12	-2	2	-3	-1	-10	-9	-23	-5	-100	-100	-	-	-	-	-	-
		DROUGHT	-	-	-	-	-	-	56	-	8	36	-6	3	-6	-3	-45	-30	-100	-	-	-	-	-	-	-	-	-
	SJR at Antioch	ALL	-	-	-	-	-	-	-	-	-	-	-9	17	-13	2	-	-	-	-	-	-	-	-	-	-	-	-
		DROUGHT	-	-	-	-	-	-	-	-	-	-	-35	92	-32	-10	-	-	-	-	-	-	-	-	-	-	-	-
	Sac. R. at Mallard Island	ALL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		DROUGHT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Major Diversions (Pumping Stations)	NBA at Barker Slough PP	ALL	1	1	1	1	1	1	1	2	2	3	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1
		DROUGHT	1	1	1	1	1	1	1	1	1	1	1	2	1	2	1	2	1	1	1	1	1	1	1	1	1	1
	Contra Costa PP #1	ALL	20	-5	35	16	-	65	68	31	-10	2	6	-3	1	-3	7	6	-1	-3	7	4	28	8	14	11	15	7
		DROUGHT	1	-25	22	73	-	-	83	-	-8	-2	1	2	1	-1	2	4	-5	-4	29	20	-	47	6	-7	18	14
	Banks PP	ALL	23	15	52	38	64	43	63	55	25	22	23	20	15	12	6	3	3	2	14	10	25	14	27	23	25	19
		DROUGHT	5	3	48	69	96	71	71	90	15	17	60	46	39	28	16	11	-4	-5	42	31	70	28	16	10	34	27
	Jones PP	ALL	24	18	44	34	40	22	71	52	45	33	48	41	20	17	17	14	14	16	10	7	11	4	19	16	27	21
		DROUGHT	30	34	42	63	46	26	-	69	-	64	-	-	30	25	37	33	10	11	26	16	35	11	5	2	41	33

[a] ALL: Water years 1975-1991 represent the 16-year period modeled using DSM2. DROUGHT: Represents a 5 consecutive year (water years 1987-1991) drought period consisting of dry and critical water year types (as defined by the Sacramento Valley 40-30-30 water year hydrologic classification index).

NOTES:

-- Positive values indicate that implementation of the Alternative increases assimilative capacity available under Existing Conditions or the No Action Alternative ELT (i.e., water quality improves under the Alternative, relative to Existing Conditions or the No Action Alternative ELT). Negative values indicate that implementation of the Alternative decreases assimilative capacity available under Existing Conditions or the No Action Alternative ELT (i.e., water quality degradation occurs under the Alternative, relative to Existing Conditions or the No Action Alternative ELT). Values of -100% represent instances where all available assimilative capacity is used under the Alternative, and therefore concentrations are at or above the criteria.

-- Regulatory objective is the state secondary maximum contaminant level (MCL) incorporated by reference in the Region 2 and 5 Basin Plans.

Table Cl-20. Period average change in chloride concentrations (mg/L) for Alternative 5A relative to existing conditions and the No Action Alternative ELT. Calculation of chloride concentrations was based on a mass balance approach.

Chloride / Alt 5A ELT	Location	Period [a]	OCT		NOV		DEC		JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		Annual Avg. Change	
			Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT
Delta Interior	Moke. R. (SF) at Staten Island	ALL	2	2	2	2	1	1	2	2	2	2	3	3	2	2	2	2	5	5	4	5	4	4	3	3	3	3
			(20%)	(19%)	(20%)	(18%)	(7%)	(9%)	(8%)	(9%)	(8%)	(10%)	(16%)	(16%)	(15%)	(15%)	(14%)	(15%)	(26%)	(28%)	(23%)	(26%)	(31%)	(26%)	(28%)	(26%)	(17%)	(18%)
		DROUGHT	3	3	2	2	1	1	0	1	0	1	3	3	2	2	2	2	6	7	7	7	6	4	4	4	3	3
			(21%)	(21%)	(19%)	(18%)	(5%)	(7%)	(2%)	(4%)	(2%)	(5%)	(12%)	(17%)	(10%)	(13%)	(11%)	(14%)	(33%)	(36%)	(44%)	(41%)	(41%)	(27%)	(29%)	(25%)	(18%)	(18%)
	SJR at Buckley Cove	ALL	-2	0	-1	0	-6	0	-5	0	-4	0	-3	0	-4	0	-4	0	-9	0	-11	0	-11	0	-4	0	-5	0
			(-3%)	(-0%)	(-2%)	(-0%)	(-8%)	(-0%)	(-6%)	(0%)	(-4%)	(-0%)	(-4%)	(-0%)	(-5%)	(-0%)	(-5%)	(-0%)	(-10%)	(-0%)	(-12%)	(-1%)	(-12%)	(0%)	(-5%)	(0%)	(-7%)	(-0%)
		DROUGHT	-3	0	-3	0	-10	-1	-9	0	-6	0	-6	0	-9	0	-9	0	-16	0	-16	-1	-20	1	-7	0	-9	0
			(-4%)	(-0%)	(-4%)	(-0%)	(-12%)	(-1%)	(-10%)	(0%)	(-7%)	(-0%)	(-7%)	(-0%)	(-11%)	(-0%)	(-10%)	(-0%)	(-18%)	(1%)	(-18%)	(-1%)	(-21%)	(2%)	(-8%)	(0%)	(-11%)	(0%)
	Franks Tract	ALL	-55	-15	-98	-44	-65	-31	-10	-18	0	-2	4	2	4	3	2	1	1	0	-44	-18	-32	-14	-43	-24	-28	-13
			(-19%)	(-6%)	(-26%)	(-13%)	(-22%)	(-12%)	(-6%)	(-11%)	(0%)	(-3%)	(11%)	(5%)	(11%)	(7%)	(5%)	(3%)	(2%)	(-1%)	(-23%)	(-11%)	(-14%)	(-7%)	(-15%)	(-8%)	(-16%)	(-8%)
		DROUGHT	-29	-35	-100	-108	-35	-23	-9	-29	2	-9	3	-2	3	1	3	-1	6	-4	-102	-52	-51	-1	28	18	-23	-20
			(-8%)	(-10%)	(-23%)	(-24%)	(-9%)	(-6%)	(-5%)	(-13%)	(3%)	(-12%)	(11%)	(-5%)	(12%)	(6%)	(11%)	(-3%)	(12%)	(-6%)	(-33%)	(-20%)	(-16%)	(-0%)	(8%)	(5%)	(-11%)	(-10%)
	Old R. at Rock Slough	ALL	-31	-1	-66	-26	-54	-23	-8	-18	-1	-3	3	1	1	0	0	0	1	0	-33	-13	-25	-8	-26	-13	-20	-9
			(-13%)	(-0%)	(-21%)	(-10%)	(-21%)	(-10%)	(-5%)	(-11%)	(-1%)	(-4%)	(6%)	(3%)	(2%)	(1%)	(1%)	(0%)	(1%)	(0%)	(-22%)	(-10%)	(-13%)	(-5%)	(-11%)	(-6%)	(-13%)	(-6%)
		DROUGHT	-1	-4	-65	-81	-22	-10	0	-23	-2	-10	0	-3	-1	-2	2	0	6	-1	-78	-39	-45	-2	27	23	-15	-13
			(-0%)	(-2%)	(-18%)	(-22%)	(-7%)	(-3%)	(0%)	(-11%)	(-2%)	(-12%)	(1%)	(-6%)	(-2%)	(-5%)	(6%)	(-0%)	(13%)	(-3%)	(-33%)	(-19%)	(-16%)	(-1%)	(9%)	(8%)	(-8%)	(-7%)
Western Delta	Sac. R. at Emmaton	ALL	-148	-119	-153	-76	-45	-54	-12	-23	-3	-11	5	-3	9	3	12	10	27	8	73	43	100	29	-23	25	-13	-14
			(-17%)	(-15%)	(-17%)	(-9%)	(-10%)	(-12%)	(-8%)	(-14%)	(-4%)	(-14%)	(18%)	(-8%)	(23%)	(6%)	(10%)	(8%)	(12%)	(3%)	(22%)	(12%)	(21%)	(5%)	(-3%)	(3%)	(-4%)	(-4%)
		DROUGHT	-239	-236	-227	-197	-46	-105	-14	-59	8	-24	10	-5	14	6	52	18	49	9	211	152	233	77	201	28	21	-28
			(-21%)	(-21%)	(-18%)	(-16%)	(-7%)	(-14%)	(-6%)	(-22%)	(7%)	(-17%)	(22%)	(-9%)	(29%)	(11%)	(29%)	(9%)	(16%)	(3%)	(45%)	(29%)	(39%)	(10%)	(18%)	(2%)	(4%)	(-5%)
	SJR at Antioch	ALL	-541	-218	-645	-275	-244	-171	-75	-90	-19	-44	19	-7	22	4	7	2	42	-3	7	21	69	25	-280	-10	-137	-64
			(-25%)	(-12%)	(-26%)	(-13%)	(-17%)	(-12%)	(-12%)	(-14%)	(-7%)	(-15%)	(17%)	(-5%)	(15%)	(2%)	(2%)	(0%)	(7%)	(-1%)	(1%)	(2%)	(5%)	(2%)	(-13%)	(-1%)	(-13%)	(-6%)
		DROUGHT	-628	-450	-772	-446	-296	-279	-115	-200	0	-98	24	-22	29	6	40	-9	31	-32	47	58	245	175	253	109	-95	-99
			(-23%)	(-18%)	(-25%)	(-16%)	(-14%)	(-14%)	(-14%)	(-22%)	(0%)	(-19%)	(15%)	(-10%)	(15%)	(3%)	(7%)	(-1%)	(4%)	(-4%)	(3%)	(3%)	(14%)	(10%)	(10%)	(4%)	(-7%)	(-7%)
	Sac. R. at Mallard Island	ALL	-792	-342	-824	-335	-292	-208	-107	-111	-11	-61	70	8	90	50	85	58	146	35	94	107	161	69	-450	18	-152	-59
			(-17%)	(-8%)	(-17%)	(-8%)	(-9%)	(-6%)	(-6%)	(-7%)	(-1%)	(-6%)	(15%)	(1%)	(12%)	(6%)	(6%)	(4%)	(8%)	(2%)	(3%)	(4%)	(5%)	(2%)	(-11%)	(0%)	(-6%)	(-2%)
		DROUGHT	-976	-554	-1090	-523	-410	-359	-203	-265	18	-149	67	-5	115	72	67	33	43	-4	141	164	314	184	182	64	-144	-112
			(-18%)	(-11%)	(-18%)	(-9%)	(-9%)	(-8%)	(-8%)	(-11%)	(1%)	(-8%)	(9%)	(-1%)	(11%)	(6%)	(3%)	(2%)	(2%)	(-0%)	(4%)	(4%)	(8%)	(5%)	(4%)	(1%)	(-4%)	(-3%)
Major Diversions (Pumping Stations)	NBA at Barker Slough PP	ALL	-6	-5	-4	-5	-3	-3	-4	-5	-5	-7	-5	-6	-6	-5	-6	-6	-9	-8	-11	-9	-10	-8	-7	-7	-6	-6
			(-38%)	(-33%)	(-29%)	(-30%)	(-23%)	(-24%)	(-30%)	(-32%)	(-33%)	(-40%)	(-32%)	(-34%)	(-36%)	(-32%)	(-38%)	(-37%)	(-46%)	(-42%)	(-49%)	(-44%)	(-47%)	(-43%)	(-40%)	(-37%)	(-36%)	(-36%)
		DROUGHT	-10	-9	-5	-7	-2	-3	-2	-2	-3	-4	-4	-5	-5	-6	-7	-7	-10	-8	-11	-10	-12	-11	-10	-10	-7	-7
			(-47%)	(-44%)	(-33%)	(-39%)	(-17%)	(-21%)	(-18%)	(-20%)	(-24%)	(-27%)	(-26%)	(-31%)	(-32%)	(-35%)	(-39%)	(-41%)	(-49%)	(-44%)	(-50%)	(-47%)	(-51%)	(-50%)	(-47%)	(-46%)	(-36%)	(-39%)
	Contra Costa PP #1	ALL	-39	1	-30	-6	-49	-20	-13	2	11	-7	3	1	2	3	0	-1	0	0	-15	-9	-39	-9	-17	-16	-15	-5
			(-16%)	(0%)	(-12%)	(-2%)	(-21%)	(-10%)	(-7%)	(1%)	(14%)	(-7%)	(6%)	(1%)	(4%)	(5%)	(0%)	(-1%)	(-0%)	(-1%)	(-12%)	(-8%)	(-19%)	(-5%)	(-8%)	(-7%)	(-11%)	(-4%)
		DROUGHT	-7	29	-8	-32	-53	-58	24	6	4	-11	-1	-6	-1	-2	0	-2	5	-1	-41	-28	-82	-17	0	18	-13	-9
			(-2%)	(11%)	(-3%)	(-10%)	(-18%)	(-19%)	(11%)	(2%)	(5%)	(-11%)	(-3%)	(-12%)	(-2%)	(-4%)	(0%)	(-6%)	(12%)	(-2%)	(-23%)	(-16%)	(-26%)	(-7%)	(0%)	(8%)	(-8%)	(-5%)
	Banks PP	ALL	-32	-15	-59	-38	-47	-26	-26	-30	-13	-18	-13	-14	-23	-24	-14	-14	-12	-12	-41	-28	-58	-37	-50	-42	-32	-25
			(-19%)	(-10%)	(-29%)	(-21%)	(-25%)	(-16%)	(-19%)	(-21%)	(-16%)	(-21%)	(-19%)	(-20%)	(-32%)	(-33%)	(-19%)	(-19%)	(-17%)	(-18%)	(-40%)	(-31%)	(-39%)	(-28%)	(-30%)	(-26%)	(-26%)	(-21%)
		DROUGHT	-7	1	-43	-57	-33	-22	-5	-22	-2	-12	-13	-13	-17	-16	-5	-5	0	-1	-79	-58	-97	-49	-17	-6	-26	-22
			(-4%)	(0%)	(-19%)	(-24%)	(-15%)	(-10%)	(-3%)	(-12%)	(-2%)	(-12%)	(-19%)	(-19%)	(-25%)	(-25%)	(-8%)	(-8%)	(-0%)	(-3%)	(-54%)	(-47%)	(-43%)	(-28%)	(-9%)	(-3%)	(-18%)	(-16%)
	Jones PP	ALL	-13	-1	-44	-29	-36	-22	-21	-23	-11	-12	-23	-23	-14	-14	-21	-21	-14	-15	-23	-10	-27	-10	-44	-35	-24	-18
			(-9%)	(-1%)	(-24%)	(-17%)	(-24%)	(-16%)	(-18%)	(-19%)	(-14%)	(-15%)	(-30%)	(-30%)	(-17%)	(-17%)	(-26%)	(-26%)	(-21%)	(-22%)	(-21%)	(-10%)	(-19%)	(-8%)	(-29%)	(-24%)	(-21%)	(-16%)
		DROUGHT	4	1	-38	-56	-19	-13	-12	-19	-7	-6	-25	-24	-11	-11	-20	-21	-9	-12	-53	-29	-46	-6	-1	5	-20	-16
			(3%)	(0%)	(-19%)	(-26%)	(-11%)	(-8%)	(-9%)	(-14%)	(-8%)	(-7%)	(-32%)	(-31%)	(-14%)	(-13%)	(-26%)	(-27%)	(-17%)	(-21%)	(-34%)	(-22%)	(-22%)	(-3%)	(-1%)	(3%)	(-15%)	(-12%)

[a] ALL: Water years 1976-1991 represent the 16-year period modeled using DSM2. DROUGHT: Represents a 5 consecutive year (water years 1987-1991) drought period consisting of dry and critical water year types (as defined by the Sacramento Valley 40-30-30 water year hydrologic classification index).

Table Cl-21. Period average change in chloride concentrations (mg/L) for Alternative 5A ELT relative to existing conditions and the No Action Alternative ELT. Calculation of chloride concentrations was based on EC-chloride relationship.

Chloride			OCT		NOV		DEC		JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		Annual Avg. Change	
Alt 5A ELT	Location	Period [a]	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT
Delta Interior	Moke. R. (SF) at Staten Island	ALL	1	1	1	1	0	1	1	1	1	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1
			(5%)	(5%)	(6%)	(6%)	(3%)	(3%)	(5%)	(6%)	(5%)	(7%)	(9%)	(9%)	(8%)	(8%)	(6%)	(7%)	(9%)	(9%)	(6%)	(6%)	(7%)	(5%)	(6%)	(6%)	(6%)	(6%)
		DROUGHT	1	1	1	1	0	0	0	0	0	1	2	2	1	1	1	1	2	2	2	2	1	1	1	1	1	1
			(6%)	(6%)	(6%)	(6%)	(2%)	(3%)	(1%)	(2%)	(1%)	(2%)	(7%)	(10%)	(6%)	(7%)	(7%)	(7%)	(12%)	(13%)	(10%)	(9%)	(8%)	(6%)	(7%)	(6%)	(6%)	(6%)
	SJR at Buckley Cove	ALL	-8	0	-11	0	-25	1	-26	-1	-19	0	-15	0	-13	0	-10	0	-11	-1	-12	3	-13	4	-11	0	-14	0
			(-8%)	(0%)	(-10%)	(0%)	(-18%)	(1%)	(-16%)	(-0%)	(-13%)	(-0%)	(-11%)	(-0%)	(-12%)	(-0%)	(-13%)	(0%)	(-11%)	(-1%)	(-11%)	(3%)	(-12%)	(4%)	(-10%)	(1%)	(-12%)	(0%)
		DROUGHT	-14	0	-18	0	-36	-1	-40	0	-26	0	-21	0	-21	-1	-18	0	-29	1	-17	9	-20	14	-15	1	-23	2
			(-11%)	(0%)	(-13%)	(-0%)	(-21%)	(-1%)	(-19%)	(-0%)	(-12%)	(0%)	(-10%)	(-0%)	(-13%)	(-0%)	(-14%)	(0%)	(-22%)	(1%)	(-15%)	(10%)	(-16%)	(16%)	(-11%)	(1%)	(-15%)	(2%)
	Franks Tract	ALL	-30	-11	-55	-28	-46	-22	-18	-15	-6	-4	-1	0	1	1	0	1	0	-1	-31	-12	-21	-8	-24	-13	-19	-9
			(-16%)	(-6%)	(-24%)	(-14%)	(-22%)	(-12%)	(-13%)	(-11%)	(-10%)	(-6%)	(-2%)	(-1%)	(3%)	(4%)	(-1%)	(3%)	(-1%)	(-2%)	(-24%)	(-11%)	(-14%)	(-6%)	(-13%)	(-7%)	(-16%)	(-8%)
		DROUGHT	-12	-24	-56	-71	-26	-20	-17	-26	-1	-11	2	-2	1	2	2	0	7	-1	-68	-37	-33	0	24	14	-15	-15
			(-5%)	(-10%)	(-21%)	(-25%)	(-10%)	(-8%)	(-9%)	(-14%)	(-1%)	(-13%)	(5%)	(-4%)	(4%)	(5%)	(8%)	(1%)	(17%)	(-3%)	(-32%)	(-20%)	(-15%)	(0%)	(10%)	(6%)	(-10%)	(-10%)
	Old R. at Rock Slough	ALL	-15	0	-34	-14	-37	-17	-16	-15	-9	-5	-3	-1	-4	-1	-3	0	0	0	-22	-8	-16	-5	-11	-4	-14	-6
			(-10%)	(-0%)	(-18%)	(-8%)	(-21%)	(-10%)	(-12%)	(-11%)	(-12%)	(-7%)	(-6%)	(-3%)	(-8%)	(-2%)	(-6%)	(0%)	(-1%)	(0%)	(-22%)	(-10%)	(-13%)	(-4%)	(-8%)	(-3%)	(-13%)	(-6%)
		DROUGHT	6	-2	-32	-50	-16	-11	-9	-21	-9	-12	-5	-4	-7	-4	0	0	6	1	-51	-27	-30	-1	21	17	-10	-10
			(3%)	(-1%)	(-15%)	(-21%)	(-7%)	(-5%)	(-5%)	(-11%)	(-10%)	(-13%)	(-7%)	(-6%)	(-13%)	(-8%)	(0%)	(0%)	(16%)	(2%)	(-32%)	(-20%)	(-16%)	(-1%)	(11%)	(9%)	(-8%)	(-7%)
Western Delta	Sac. R. at Emmaton	ALL	-97	-83	-93	-54	-37	-39	-16	-19	-7	-11	5	-4	7	2	9	8	20	7	59	35	79	27	1	21	-6	-9
			(-17%)	(-15%)	(-17%)	(-11%)	(-12%)	(-12%)	(-12%)	(-15%)	(-10%)	(-15%)	(13%)	(-9%)	(21%)	(4%)	(10%)	(9%)	(11%)	(4%)	(26%)	(14%)	(24%)	(7%)	(0%)	(4%)	(-2%)	(-3%)
		DROUGHT	-147	-163	-136	-139	-39	-79	-17	-54	2	-26	12	-5	12	4	46	17	54	12	173	123	192	72	166	35	27	-17
			(-19%)	(-20%)	(-18%)	(-18%)	(-8%)	(-15%)	(-9%)	(-23%)	(2%)	(-19%)	(28%)	(-9%)	(34%)	(10%)	(39%)	(11%)	(22%)	(4%)	(63%)	(32%)	(43%)	(13%)	(21%)	(4%)	(7%)	(-4%)
	SJR at Antioch	ALL	-360	-141	-397	-172	-199	-113	-82	-72	-30	-40	19	-9	22	3	12	6	36	3	24	24	66	37	-156	9	-87	-39
			(-24%)	(-11%)	(-27%)	(-14%)	(-19%)	(-12%)	(-17%)	(-15%)	(-12%)	(-15%)	(16%)	(-6%)	(20%)	(2%)	(5%)	(2%)	(8%)	(1%)	(3%)	(3%)	(6%)	(3%)	(-11%)	(1%)	(-11%)	(-5%)
		DROUGHT	-398	-309	-475	-310	-245	-202	-112	-176	-9	-95	36	-22	31	5	58	3	59	-19	78	60	229	167	239	115	-42	-65
			(-22%)	(-18%)	(-25%)	(-18%)	(-17%)	(-14%)	(-16%)	(-23%)	(-2%)	(-20%)	(22%)	(-10%)	(22%)	(3%)	(15%)	(1%)	(9%)	(-2%)	(6%)	(5%)	(18%)	(12%)	(13%)	(6%)	(-4%)	(-6%)
	Sac. R. at Mallard Island	ALL	-638	-227	-598	-213	-285	-127	-106	-83	-25	-53	88	8	102	41	99	62	157	51	129	105	160	90	-284	37	-100	-26
			(-21%)	(-8%)	(-20%)	(-8%)	(-13%)	(-6%)	(-8%)	(-7%)	(-3%)	(-6%)	(20%)	(2%)	(20%)	(7%)	(11%)	(6%)	(11%)	(3%)	(6%)	(5%)	(6%)	(4%)	(-10%)	(1%)	(-6%)	(-2%)
		DROUGHT	-719	-395	-772	-387	-383	-252	-195	-240	16	-140	119	-8	138	61	158	63	126	17	201	170	344	225	254	117	-59	-64
			(-19%)	(-12%)	(-20%)	(-11%)	(-12%)	(-8%)	(-10%)	(-12%)	(1%)	(-9%)	(18%)	(-1%)	(19%)	(8%)	(11%)	(4%)	(6%)	(1%)	(7%)	(6%)	(12%)	(7%)	(7%)	(3%)	(-3%)	(-3%)
Major Diversions (Pumping Stations)	NBA at Barker Slough PP	ALL	-2	-2	-2	-2	-2	-2	-3	-4	-4	-6	-4	-4	-4	-3	-3	-3	-2	-2	-2	-2	-2	-2	-2	-2	-3	-3
			(-12%)	(-9%)	(-11%)	(-10%)	(-11%)	(-11%)	(-17%)	(-18%)	(-20%)	(-25%)	(-18%)	(-20%)	(-18%)	(-16%)	(-14%)	(-13%)	(-13%)	(-11%)	(-12%)	(-9%)	(-10%)	(-9%)	(-10%)	(-9%)	(-14%)	(-14%)
		DROUGHT	-3	-2	-2	-3	-1	-2	-2	-2	-3	-3	-3	-4	-3	-4	-3	-3	-3	-2	-2	-2	-2	-2	-2	-2	-2	-3
			(-15%)	(-13%)	(-12%)	(-14%)	(-8%)	(-9%)	(-11%)	(-11%)	(-14%)	(-16%)	(-15%)	(-18%)	(-15%)	(-19%)	(-15%)	(-17%)	(-14%)	(-11%)	(-12%)	(-11%)	(-12%)	(-11%)	(-12%)	(-12%)	(-13%)	(-14%)
	Contra Costa PP #1	ALL	-22	2	-15	0	-36	-17	-23	-4	6	-10	-17	-3	-8	0	-4	-2	-3	0	-10	-5	-26	-6	-9	-7	-14	-4
			(-14%)	(1%)	(-9%)	(-0%)	(-20%)	(-11%)	(-12%)	(-3%)	(5%)	(-8%)	(-19%)	(-4%)	(-11%)	(-0%)	(-6%)	(-3%)	(-7%)	(-1%)	(-12%)	(-6%)	(-19%)	(-5%)	(-7%)	(-5%)	(-12%)	(-4%)
		DROUGHT	1	21	1	-17	-40	-45	13	5	-4	-13	-8	-9	-8	-3	-4	-9	3	0	-26	-17	-56	-13	1	12	-11	-7
			(1%)	(12%)	(0%)	(-8%)	(-17%)	(-19%)	(6%)	(2%)	(-4%)	(-11%)	(-10%)	(-12%)	(-11%)	(-5%)	(-8%)	(-14%)	(7%)	(0%)	(-21%)	(-15%)	(-26%)	(-7%)	(0%)	(7%)	(-8%)	(-5%)
	Banks PP	ALL	-18	-8	-32	-21	-34	-18	-31	-25	-18	-14	-18	-13	-29	-24	-12	-7	-10	-8	-26	-19	-37	-23	-28	-23	-24	-17
			(-16%)	(-8%)	(-25%)	(-18%)	(-24%)	(-14%)	(-22%)	(-19%)	(-17%)	(-14%)	(-21%)	(-16%)	(-35%)	(-30%)	(-16%)	(-10%)	(-15%)	(-13%)	(-35%)	(-28%)	(-37%)	(-26%)	(-26%)	(-22%)	(-24%)	(-18%)
		DROUGHT	-2	1	-24	-36	-28	-18	-12	-20	-11	-13	-36	-25	-42	-33	-13	-7	2	3	-51	-39	-63	-33	-10	-3	-24	-18
			(-1%)	(1%)	(-16%)	(-22%)	(-16%)	(-11%)	(-7%)	(-11%)	(-8%)	(-9%)	(-27%)	(-20%)	(-33%)	(-27%)	(-12%)	(-7%)	(2%)	(5%)	(-50%)	(-43%)	(-43%)	(-26%)	(-7%)	(-3%)	(-18%)	(-14%)
	Jones PP	ALL	-5	1	-28	-20	-27	-11	-28	-16	-24	-13	-40	-34	-19	-15	-22	-18	-12	-16	-12	-7	-15	-5	-26	-21	-22	-15
			(-5%)	(1%)	(-22%)	(-16%)	(-18%)	(-8%)	(-18%)	(-11%)	(-19%)	(-11%)	(-34%)	(-30%)	(-22%)	(-17%)	(-29%)	(-24%)	(-19%)	(-23%)	(-14%)	(-9%)	(-15%)	(-5%)	(-24%)	(-21%)	(-20%)	(-14%)
		DROUGHT	8	5	-24	-37	-23	-12	-27	-15	-27	-8	-73	-63	-22	-17	-35	-31	-11	-12	-32	-21	-27	-5	0	4	-24	-18
			(6%)	(4%)	(-16%)	(-23%)	(-13%)	(-7%)	(-14%)	(-8%)	(-14%)	(-5%)	(-38%)	(-34%)	(-16%)	(-13%)	(-31%)	(-29%)	(-18%)	(-20%)	(-30%)	(-22%)	(-18%)	(-4%)	(0%)	(3%)	(-17%)	(-13%)

[a] ALL: Water years 1976-1991 represent the 16-year period modeled using DSM2. DROUGHT: Represents a 5 consecutive year (water years 1987-1991) drought period consisting of dry and critical water year types (as defined by the Sacramento Valley 40-30-30 water year hydrologic classification index).

Table Cl-22. Alternative 5A ELT percent use of assimilative capacity available under existing conditions and No Action Alternative ELT relative to the 250 mg/L secondary MCL. Calculation of chloride concentrations was based on a mass balance approach.

Chloride			OCT		NOV		DEC		JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		Annual Avg. Change	
Alt 5A ELT	Location	Period [a]	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT
Delta Interior	Moke. R. (SF) at Staten Island	ALL	-1	-1	-1	-1	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-2	-2	-2	-2	-2	-2	-1	-1	-1	-1
		DROUGHT	-1	-1	-1	-1	0	0	0	0	0	0	-1	-1	-1	-1	-1	-1	-3	-3	-3	-3	-2	-2	-2	-2	-1	-
	SJR at Buckley Cove	ALL	1	0	1	0	4	0	3	0	2	0	2	0	3	0	3	0	5	0	7	0	7	0	3	0	3	0
		DROUGHT	2	0	2	0	6	0	5	0	3	0	4	0	6	0	6	0	10	0	10	1	13	-1	4	0	6	-
	Franks Tract	ALL	-	-	-	-	-	-	11	21	0	1	-2	-1	-2	-1	-1	-1	-1	0	76	21	-	36	-	-	37	15
		DROUGHT	-	-	-	-	-	-	20	-	-1	5	-1	1	-1	-1	-2	0	-3	2	-	-	-	-	-	-	63	-
	Old R. at Rock Slough	ALL	-	2	-	-	-	97	8	20	1	1	-1	-1	-1	0	0	0	0	0	33	11	43	11	-	65	20	8
		DROUGHT	-	-	-	-	-	-	0	64	1	6	0	1	0	1	-1	0	-3	1	-	78	-	12	-	-	21	-
Western Delta	Sac. R. at Emmaton	ALL	-	-	-	-	-	-	12	26	2	6	-2	2	-4	-1	-9	-8	96	-94	-	-	-	-	-	-	-	-
		DROUGHT	-	-	-	-	-	-	57	-	-6	22	-5	3	-7	-3	-71	-47	-	-	-	-	-	-	-	-	-	-
	SJR at Antioch	ALL	-	-	-	-	-	-	-	-	-	-	-14	7	-20	-4	-	-	-	-	-	-	-	-	-	-	-	-
		DROUGHT	-	-	-	-	-	-	-	-	-	-	-28	51	-56	-22	-	-	-	-	-	-	-	-	-	-	-	-
	Sac. R. at Mallard Island	ALL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		DROUGHT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Major Diversions (Pumping Stations)	NBA at Barker Slough PP	ALL	3	2	2	2	1	1	2	2	2	3	2	2	2	2	3	3	4	3	5	4	4	4	3	3	3	3
		DROUGHT	4	4	2	3	1	1	1	1	1	2	2	2	2	2	3	3	4	4	5	4	5	5	4	4	3	-
	Contra Costa PP #1	ALL	-	-2	-	22	-	49	19	-2	-7	4	-2	0	-1	-1	0	0	0	0	12	7	85	12	51	46	15	4
		DROUGHT	-	-	-	-	-	-	-77	-45	-2	7	1	3	0	1	0	1	-3	0	61	34	-	-	-	-100	18	-
	Banks PP	ALL	38	14	-	55	78	32	24	28	8	11	7	8	13	13	8	8	6	6	29	18	58	30	61	46	26	18
		DROUGHT	13	-2	-	-	-	61	6	35	1	8	7	7	9	9	2	3	0	1	75	47	-	68	35	10	25	-
	Jones PP	ALL	13	1	68	36	38	20	16	17	7	7	13	13	8	8	13	13	8	8	17	7	25	8	47	34	18	13
		DROUGHT	-6	-1	77	-	25	16	10	18	4	4	15	14	6	6	12	12	5	6	55	24	-	7	1	-7	17	-

[a] ALL: Water years 1975-1991 represent the 16-year period modeled using DSM2. DROUGHT: Represents a 5 consecutive year (water years 1987-1991) drought period consisting of dry and critical water year types (as defined by the Sacramento Valley 40-30-30 water year hydrologic classification index).

NOTES:

-- Positive values indicate that implementation of the Alternative increases assimilative capacity available under Existing Conditions or the No Action Alternative ELT (i.e., water quality improves under the Alternative, relative to Existing Conditions or the No Action Alternative ELT). Negative values indicate that implementation of the Alternative decreases assimilative capacity available under Existing Conditions or the No Action Alternative ELT (i.e., water quality degradation occurs under the Alternative, relative to Existing Conditions or the No Action Alternative ELT). Values of -100% represent instances where all available assimilative capacity is used under the Alternative, and therefore concentrations are at or above the criteria.

-- Regulatory objective is the state secondary maximum contaminant level (MCL) incorporated by reference in the Region 2 and 5 Basin Plans.

Table Cl-23. Alternative 5A ELT percent use of assimilative capacity available under existing conditions and No Action Alternative ELT relative to the 250 mg/L secondary MCL. Calculation of chloride concentrations was based on EC-chloride relationship.

Chloride			OCT		NOV		DEC		JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		Annual Avg. Change	
Alt 5A ELT	Location	Period [a]	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT	Ex. Cond.	No Act. ELT
Delta Interior	Moke. R. (SF) at Staten Island	ALL	0	0	0	0	0	0	-1	-1	-1	-1	-1	-1	-1	-1	0	0	-1	-1	0	0	0	0	0	0	-1	-1
		DROUGHT	0	0	0	0	0	0	0	0	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	0	0	0	-1
	SJR at Buckley Cove	ALL	5	0	8	0	22	-1	29	1	18	0	14	0	8	0	6	0	7	0	8	-2	9	-2	7	0	11	0
		DROUGHT	11	0	16	0	44	1	-	1	77	-1	61	0	24	1	14	0	24	-1	12	-6	15	-9	13	-1	24	-2
	Franks Tract	ALL	49	13	-	60	-	33	15	12	3	2	0	0	0	-1	0	0	0	0	25	9	21	7	41	19	15	7
		DROUGHT	61	-	-	-	-	-	24	42	1	7	-1	1	0	-1	-1	0	-4	1	-	53	-	0	-100	-100	15	15
	Old R. at Rock Slough	ALL	15	0	54	17	53	19	14	12	5	2	2	1	2	1	1	0	0	0	15	5	13	4	12	4	10	4
		DROUGHT	-10	4	94	-	74	40	12	32	6	8	2	2	4	2	0	0	-3	0	58	24	50	1	-34	-29	9	8
Western Delta	Sac. R. at Emmaton	ALL	-	-	-	-	-	-	13	16	4	6	-2	2	-3	-1	-6	-5	-30	-14	-100	-100	-	-	-	-	-	-
		DROUGHT	-	-	-	-	-	-	30	-	-2	24	-6	3	-6	-2	-35	-16	-100	-	-	-	-	-	-	-	-	-
	SJR at Antioch	ALL	-	-	-	-	-	-	-	-	-	-	-15	9	-16	-2	-	-	-	-	-	-	-	-	-	-	-	-
		DROUGHT	-	-	-	-	-	-	-	-	-	-	-41	75	-29	-7	-	-	-	-	-	-	-	-	-	-	-	-
	Sac. R. at Mallard Island	ALL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		DROUGHT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Major Diversions (Pumping Stations)	NBA at Barker Slough PP	ALL	1	1	1	1	1	1	1	2	2	3	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1
		DROUGHT	1	1	1	1	1	1	1	1	1	1	1	2	1	2	1	2	1	1	1	1	1	1	1	1	1	1
	Contra Costa PP #1	ALL	24	-2	16	0	52	19	34	5	-4	8	11	2	5	0	2	1	2	0	6	3	24	5	9	6	11	3
		DROUGHT	-2	-27	-1	40	-	-	-32	-15	3	10	5	6	5	2	2	5	-2	0	22	13	-	19	-1	-13	10	7
	Banks PP	ALL	13	5	27	16	33	15	28	21	12	9	11	8	17	14	7	4	5	4	15	10	25	14	20	16	16	11
		DROUGHT	1	-1	25	41	41	23	16	29	10	11	31	19	35	25	9	5	-1	-2	34	24	67	26	8	3	21	15
	Jones PP	ALL	4	-1	23	15	27	10	29	14	20	10	31	25	12	9	13	10	6	9	7	4	10	3	18	15	15	10
		DROUGHT	-7	-4	24	43	34	16	46	21	45	10	-	96	19	15	26	22	6	7	23	14	27	4	0	-3	23	16

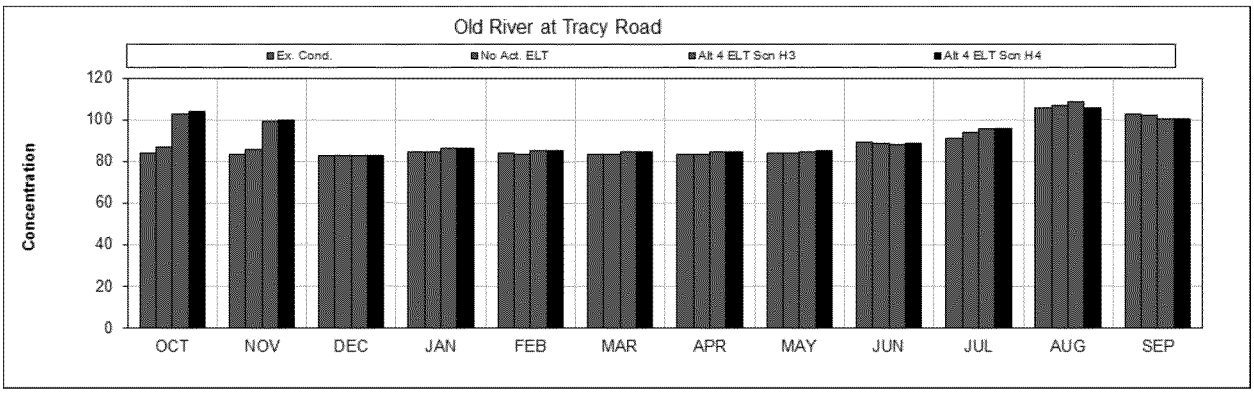
[a] ALL: Water years 1975-1991 represent the 16-year period modeled using DSM2. DROUGHT: Represents a 5 consecutive year (water years 1987-1991) drought period consisting of dry and critical water year types (as defined by the Sacramento Valley 40-30-30 water year hydrologic classification index).

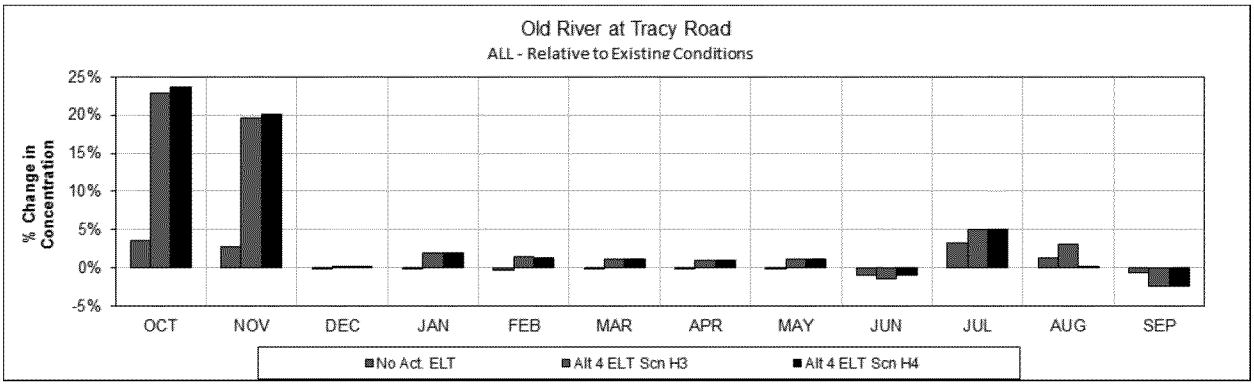
NOTES:

-- Positive values indicate that implementation of the Alternative increases assimilative capacity available under Existing Conditions or the No Action Alternative ELT (i.e., water quality improves under the Alternative, relative to Existing Conditions or the No Action Alternative ELT). Negative values indicate that implementation of the Alternative decreases assimilative capacity available under Existing Conditions or the No Action Alternative ELT (i.e., water quality degradation occurs under the Alternative, relative to Existing Conditions or the No Action Alternative ELT). Values of -100% represent instances where all available assimilative capacity is used under the Alternative, and therefore concentrations are at or above the criteria.

-- Regulatory objective is the state secondary maximum contaminant level (MCL) incorporated by reference in the Region 2 and 5 Basin Plans.

Figure Cl-1. Long-term average estimated chloride concentrations at Old River at Tracy Road, and change relative to existing conditions and the No Action Alternative ELT, for Alternative 4A H3–H4 ELT (mg/L).





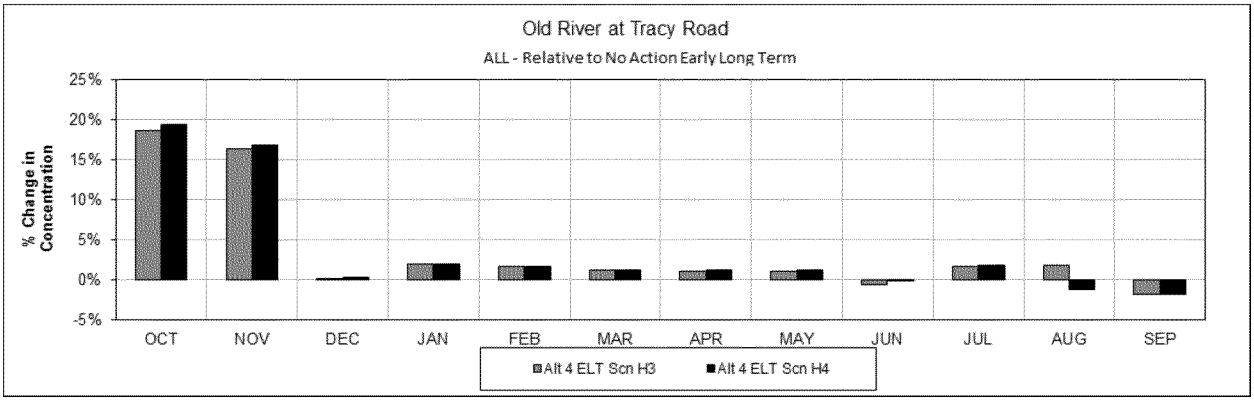
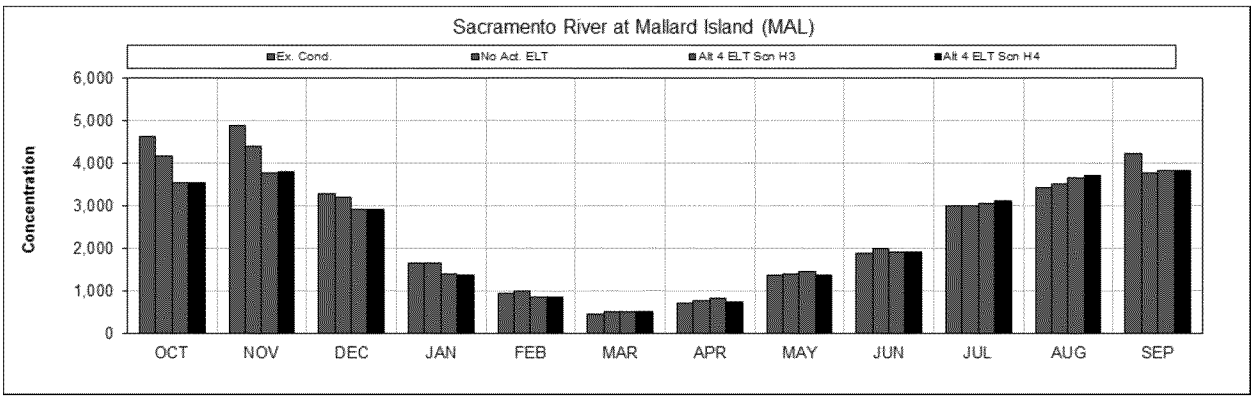
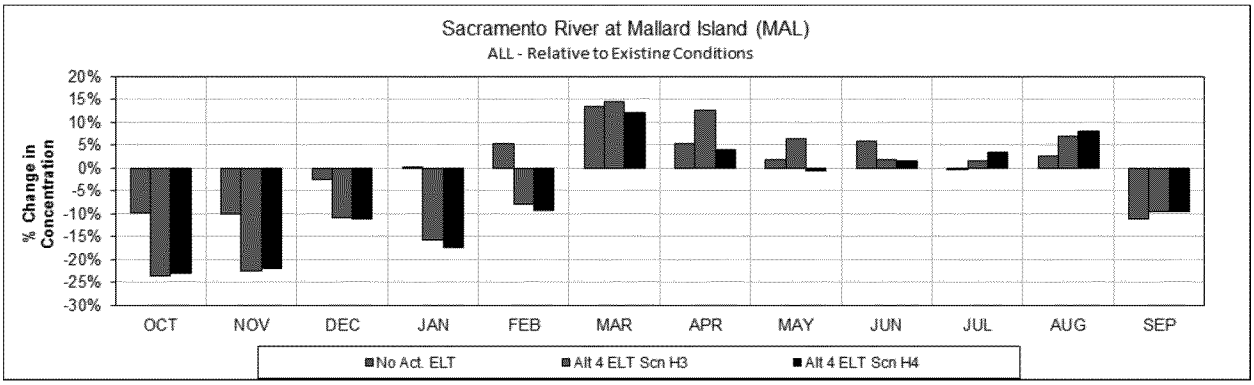


Figure Cl-2. Long-term average estimated chloride concentrations at Sacramento River at Mallard Island, and change relative to existing conditions and the No Action Alternative ELT, for Alternative 4A H3–H4 ELT (mg/L).





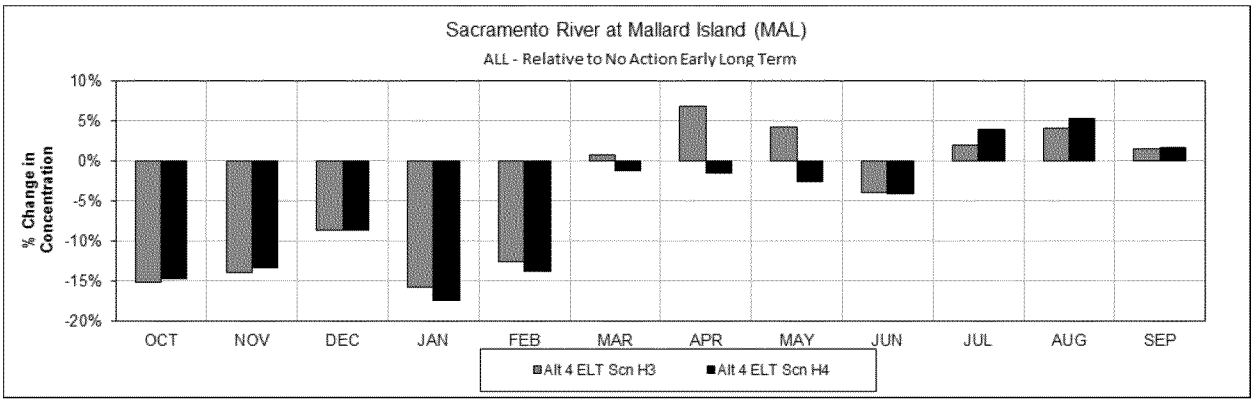
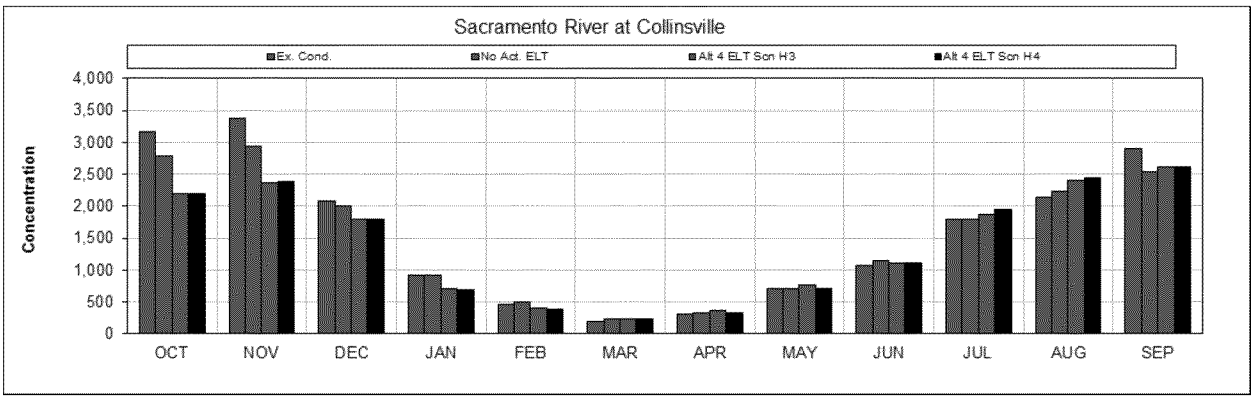
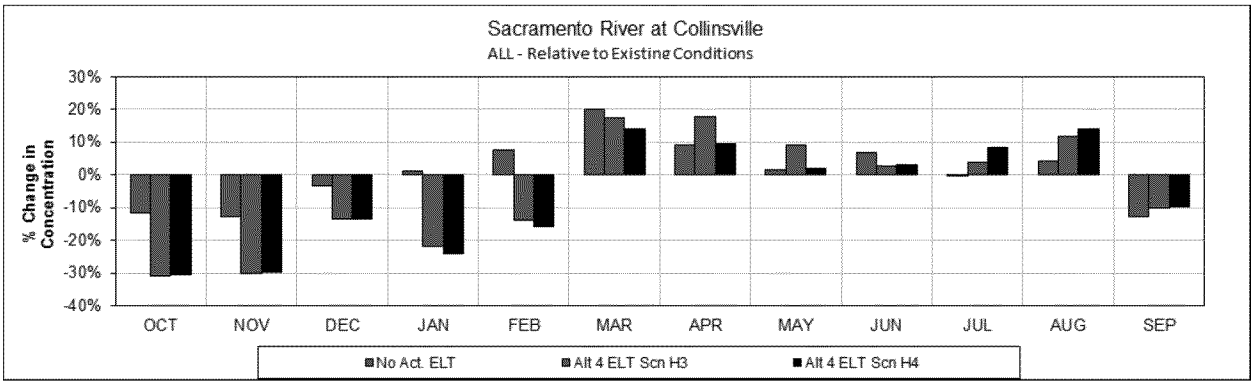


Figure Cl-3. Long-term average estimated chloride concentrations at Sacramento River at Collinsville, and change relative to existing conditions and the No Action Alternative ELT, for Alternative 4A H3–H4 ELT (mg/L).





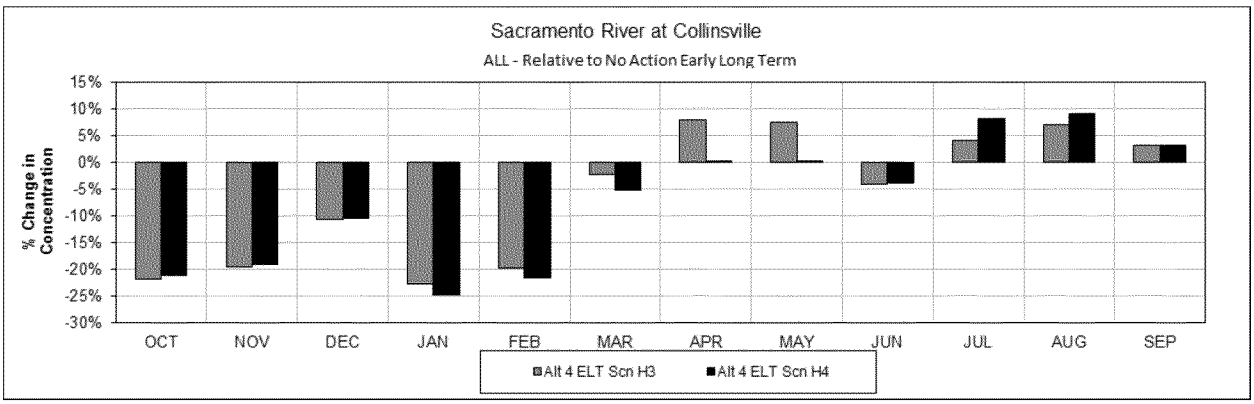
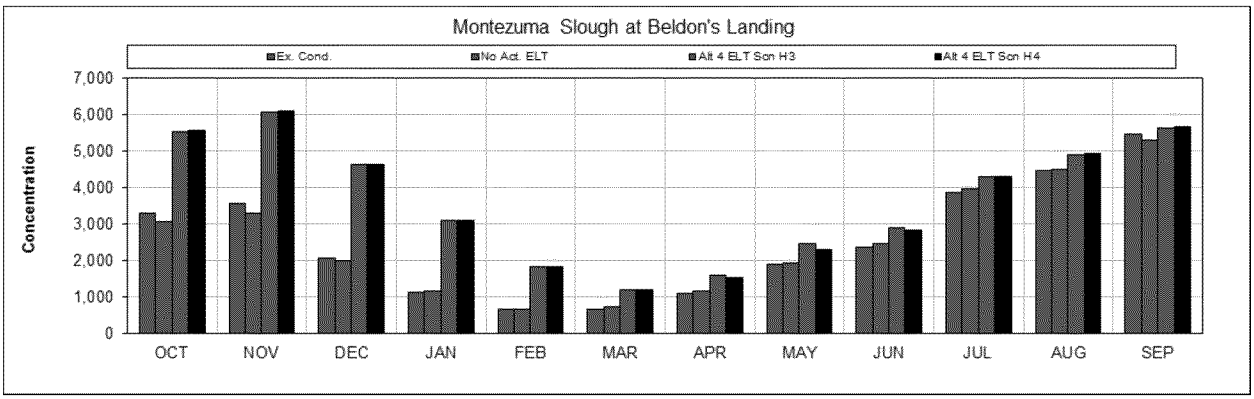
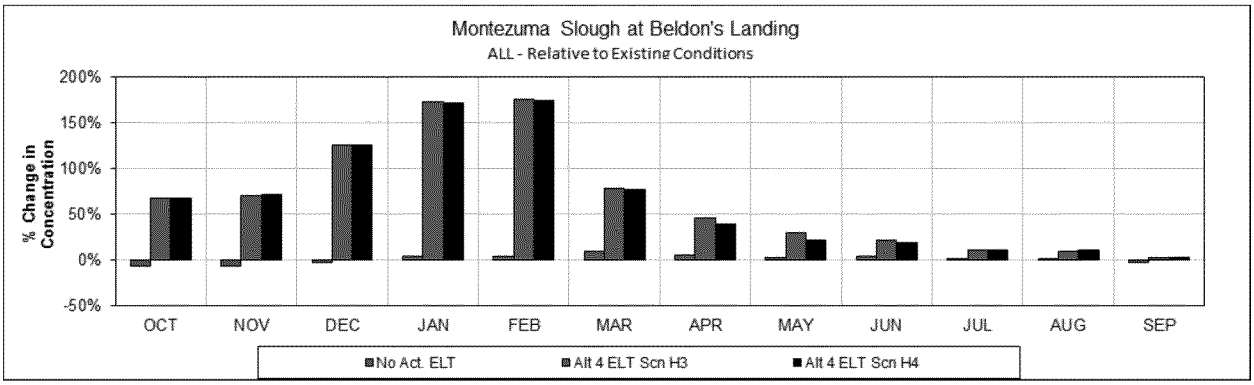


Figure Cl-4. Long-term average estimated chloride concentrations at Montezuma Slough at Beldon's Landing, and change relative to existing conditions and the No Action Alternative ELT, for Alternative 4A H3–H4 ELT (mg/L).





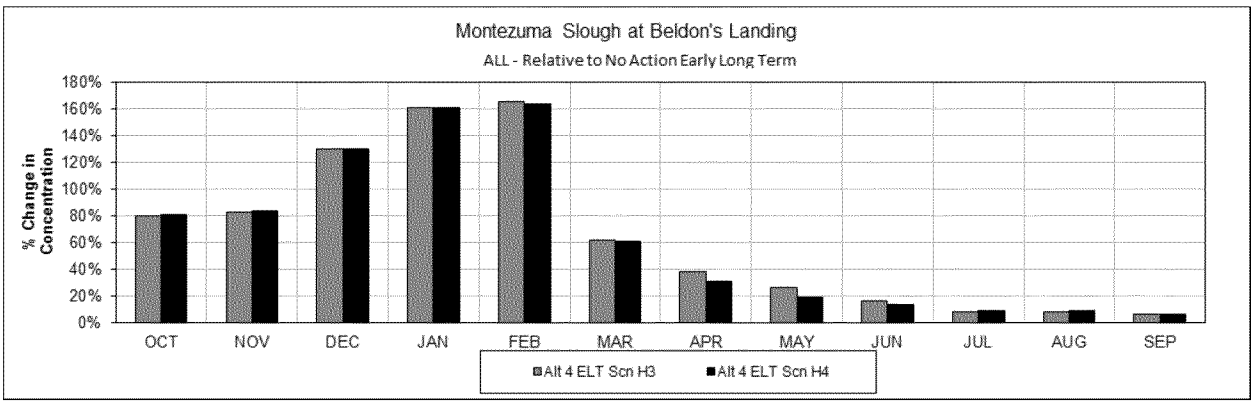
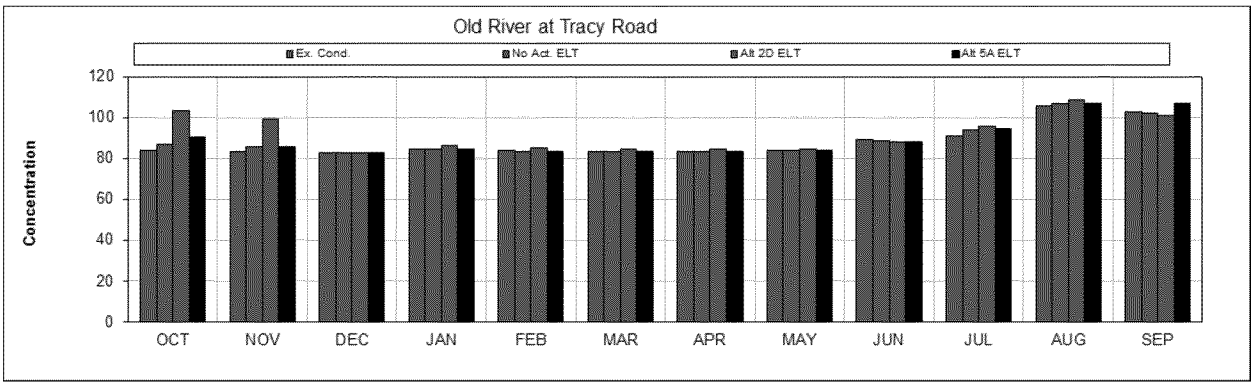
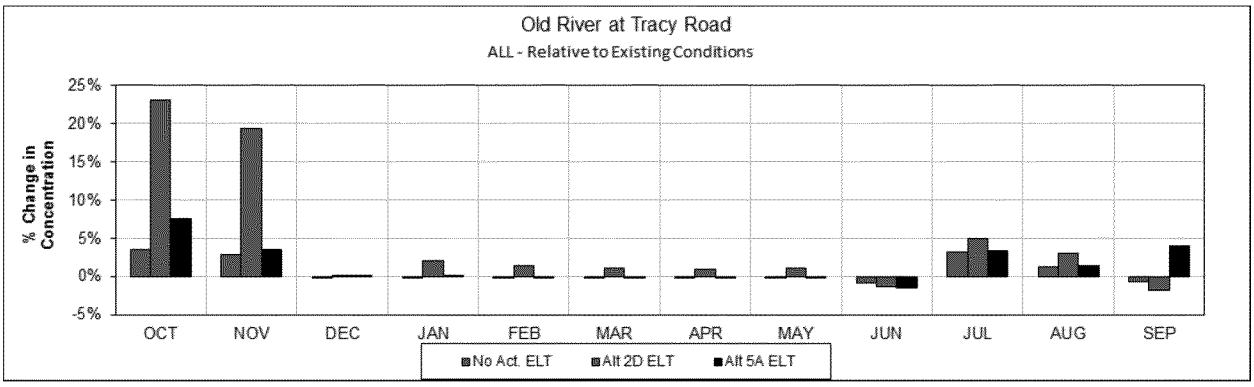


Figure Cl-5. Long-term average estimated chloride concentrations at Old River at Tracy Road, and change relative to existing conditions and the No Action Alternative ELT, for Alternatives 2D and 5A ELT (mg/L).





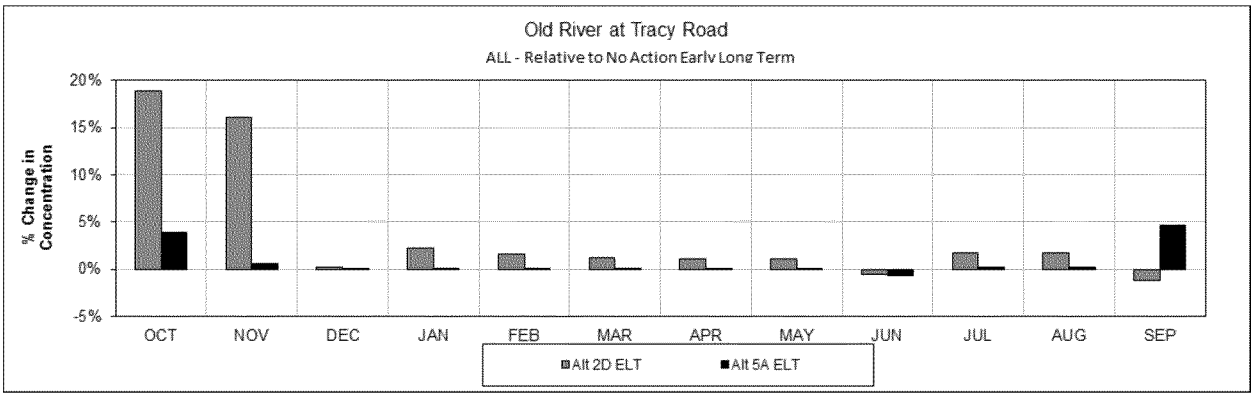
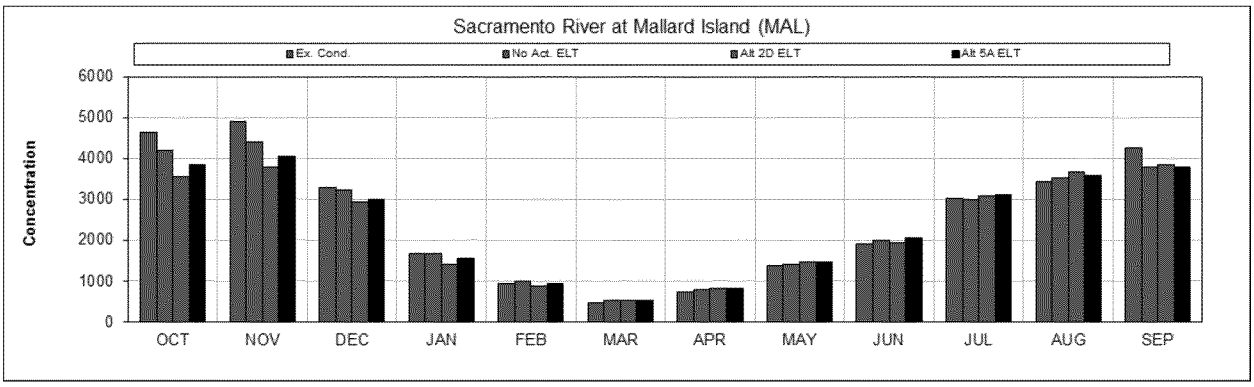
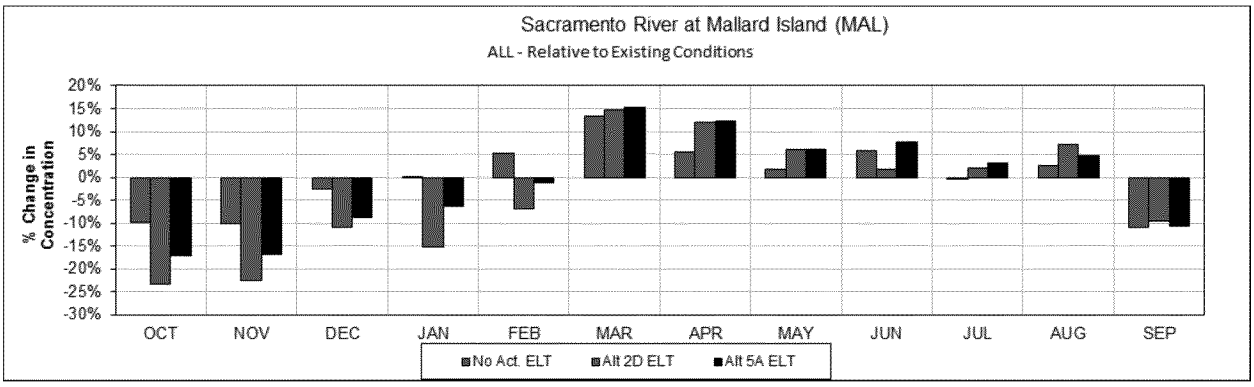


Figure Cl-6. Long-term average estimated chloride concentrations at Sacramento River at Mallard Island, and change relative to existing conditions and the No Action Alternative ELT, for Alternatives 2D and 5A ELT (mg/L).





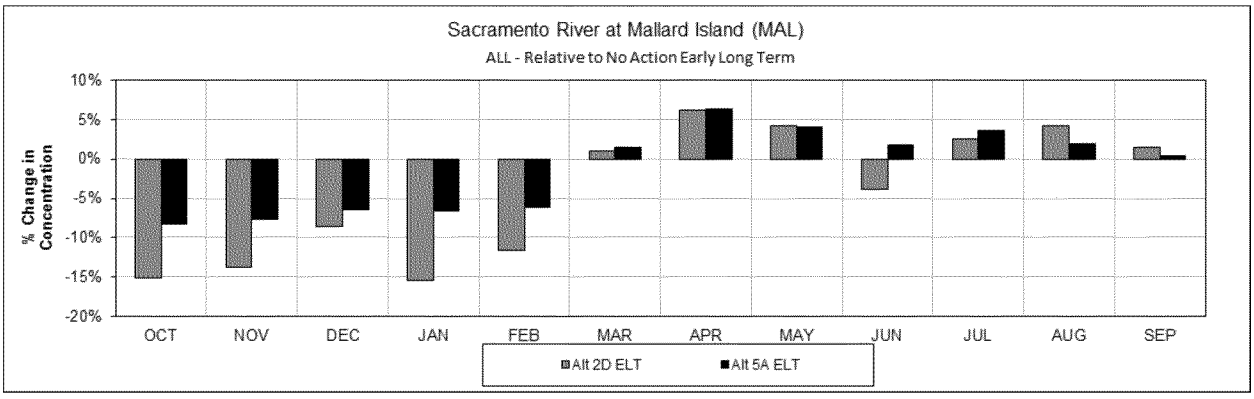
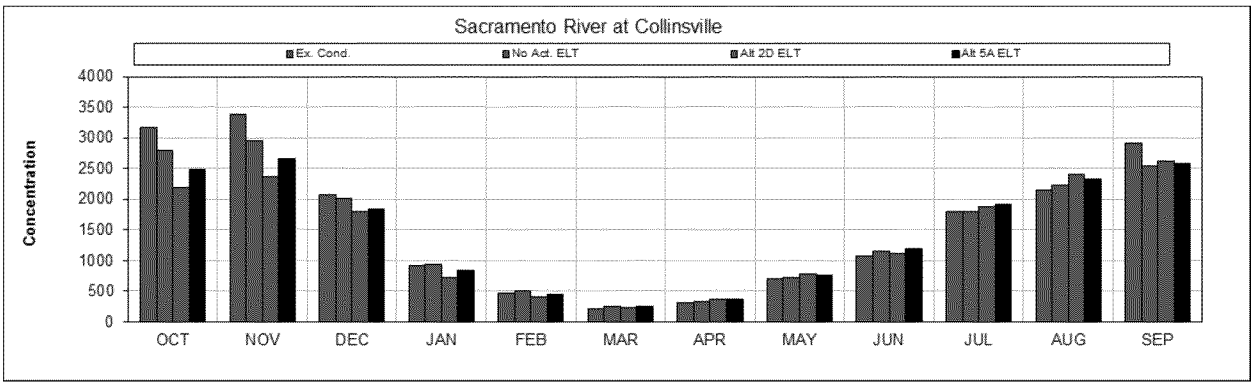
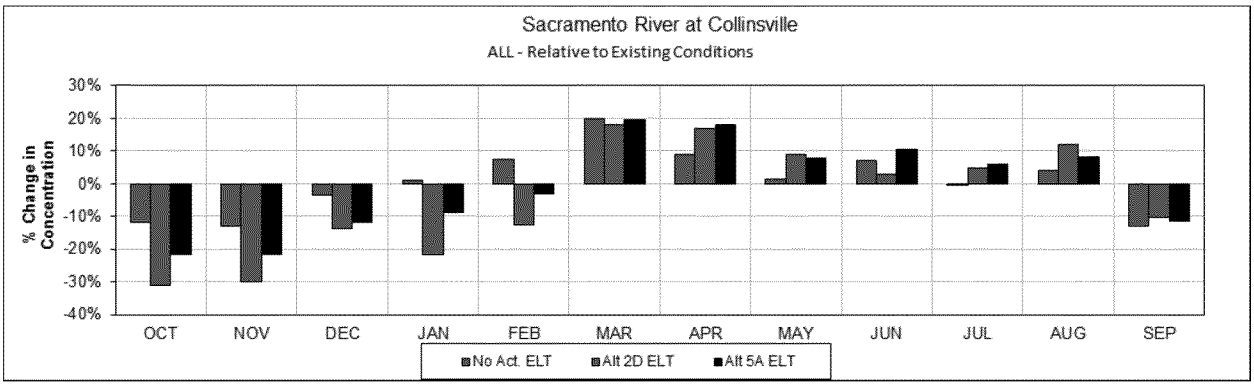


Figure Cl-7. Long-term average estimated chloride concentrations at Sacramento River at Collinsville, and change relative to existing conditions and the No Action Alternative ELT, for Alternatives 2D and 5A ELT (mg/L).





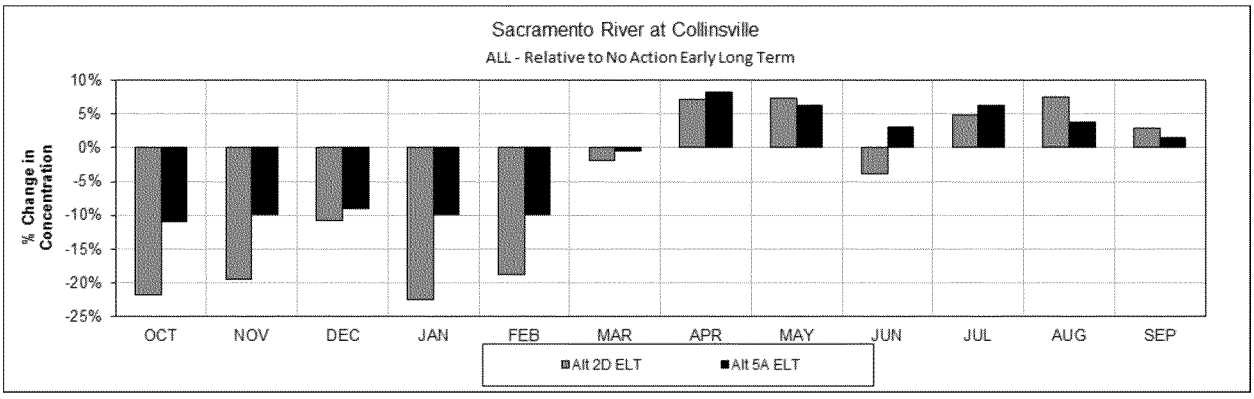
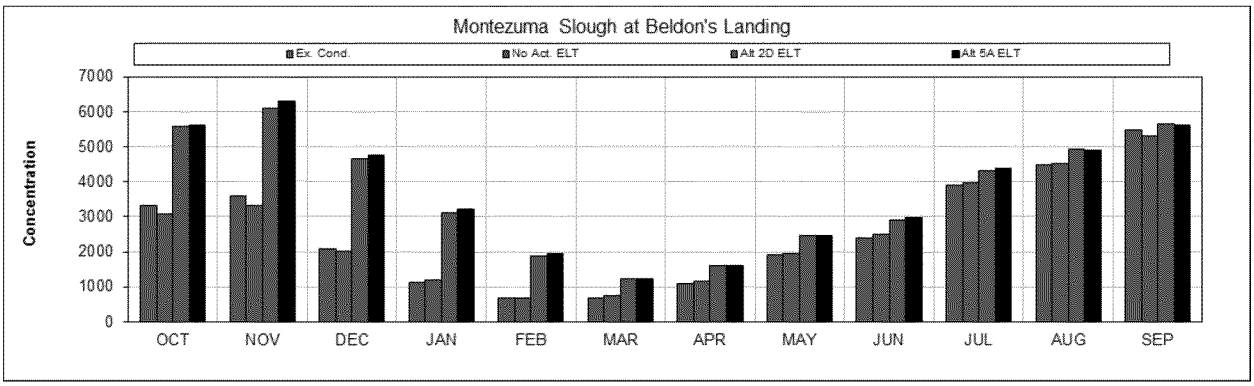
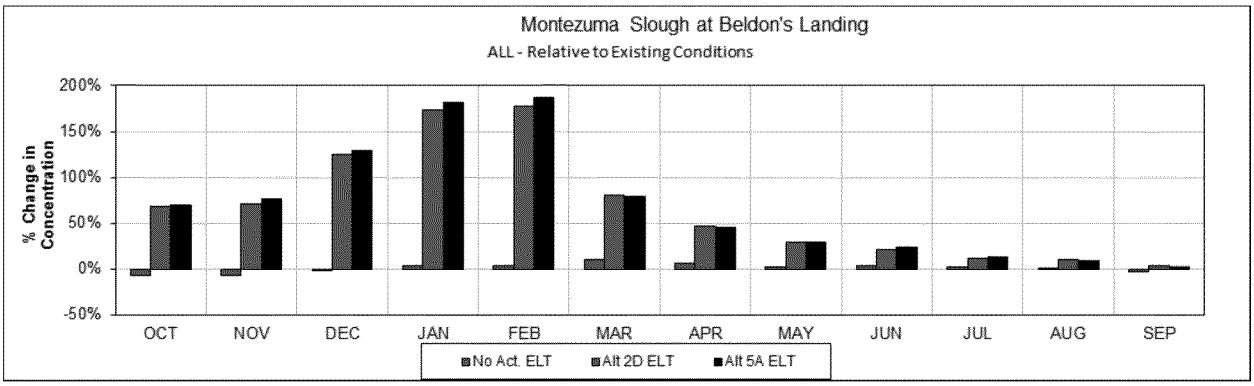
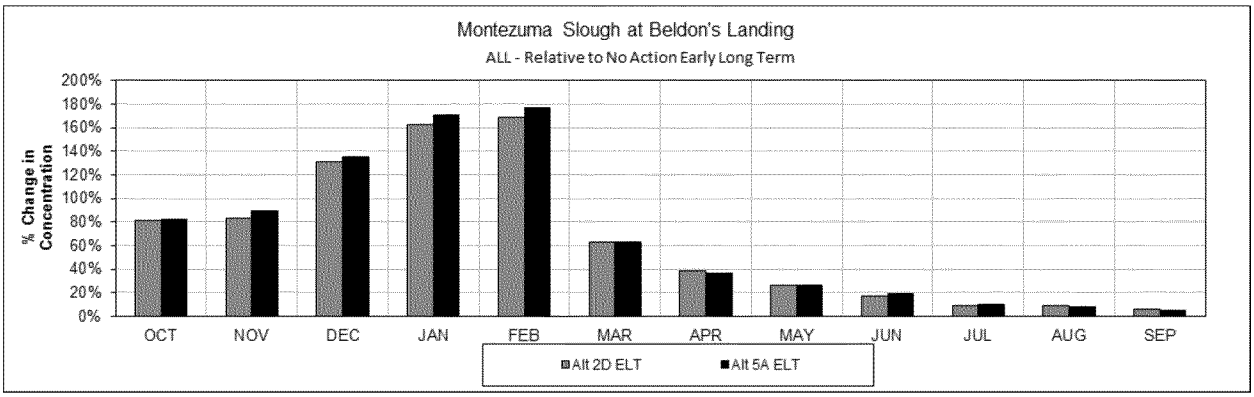


Figure Cl-8. Long-term average estimated chloride concentrations at Montezuma Slough at Beldon's Landing, and change relative to existing conditions and the No Action Alternative ELT, for Alternatives 2D and 5A ELT (mg/L).







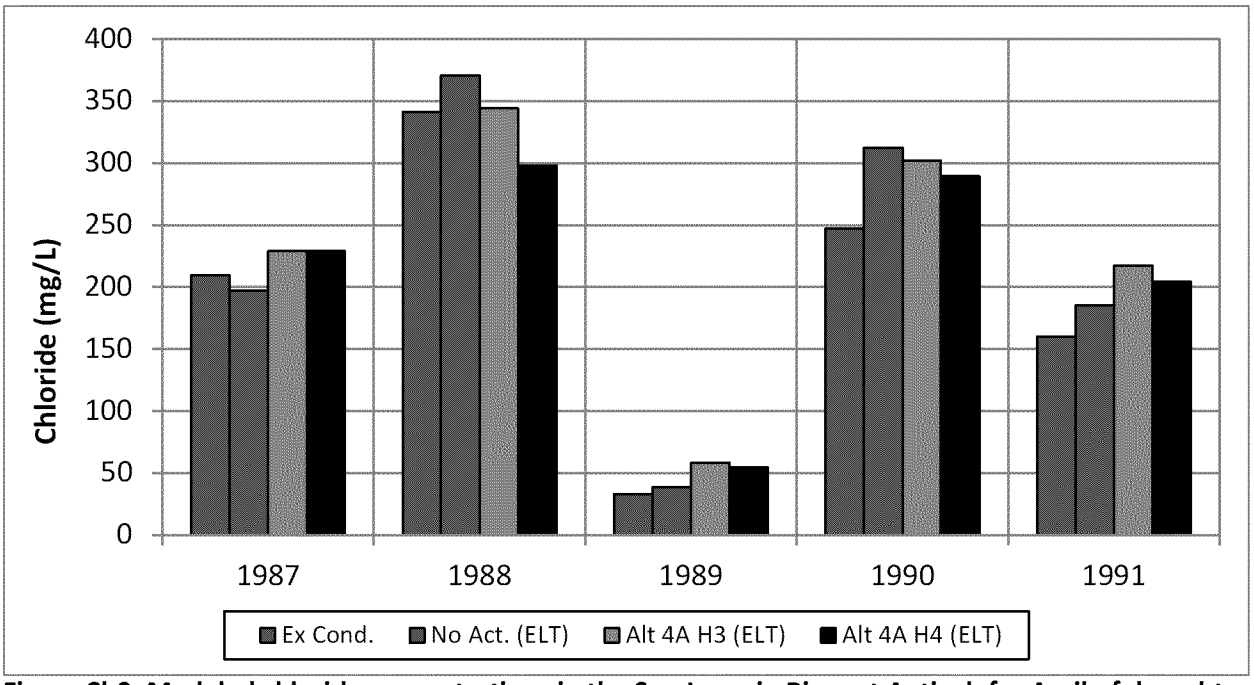


Figure Cl-9. Modeled chloride concentrations in the San Joaquin River at Antioch for April of drought years (1987-1991) using the mass balance approach.

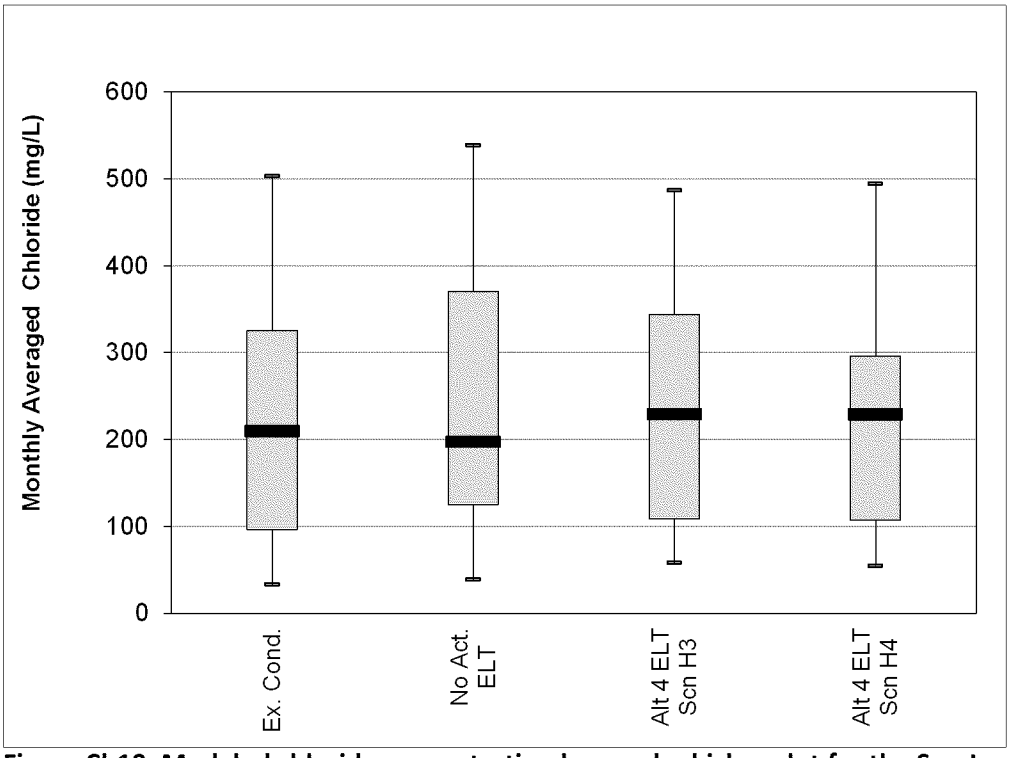


Figure Cl-10. Modeled chloride concentration box-and-whisker plot for the San Joaquin River at Antioch for April of dry and critical water years using the mass balance approach.

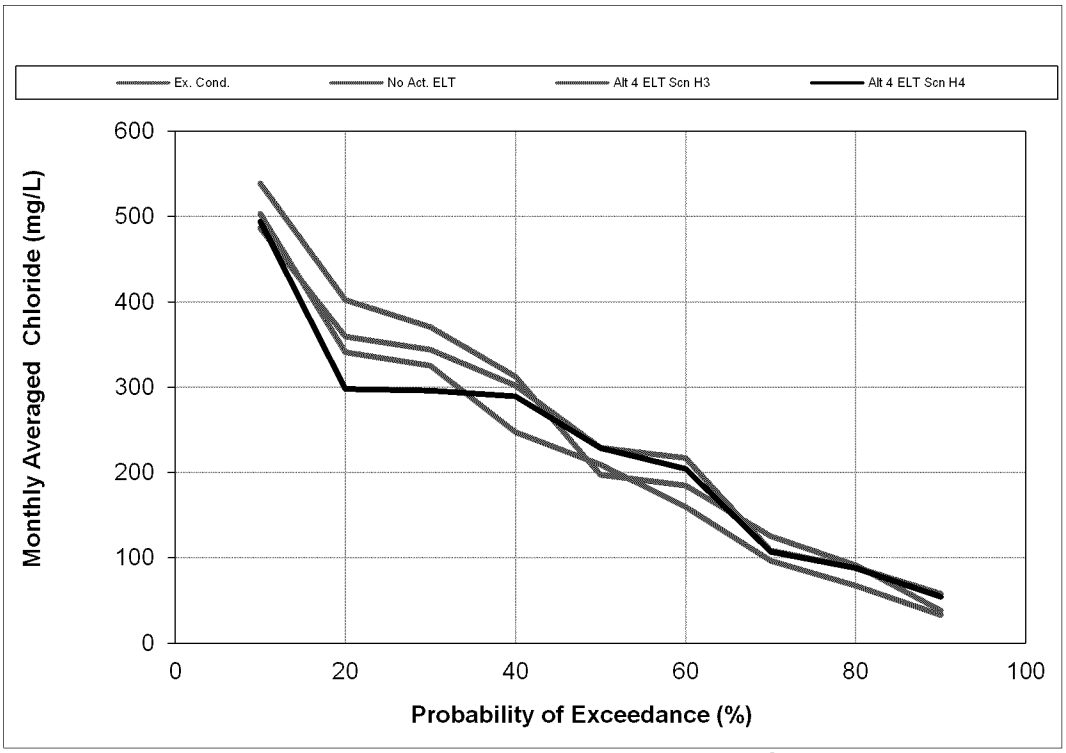


Figure Cl-11. Modeled chloride concentration exceedance plot for the San Joaquin River at Antioch for April of dry and critical water years using the mass balance approach.

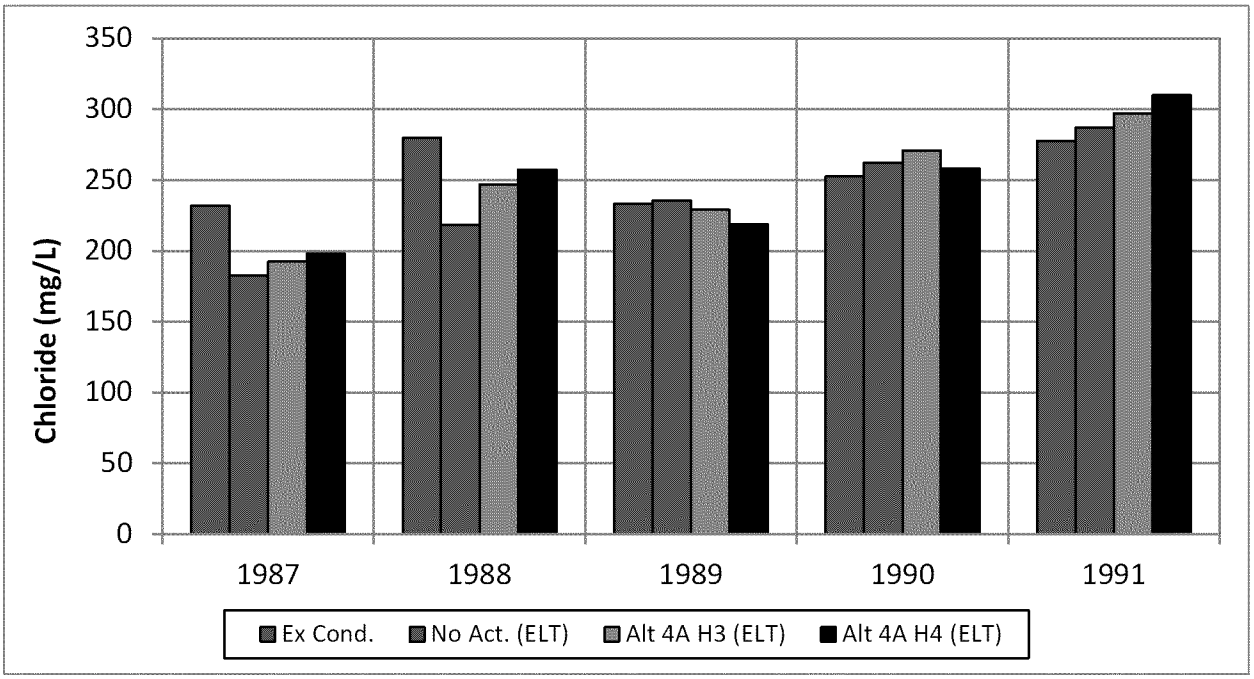


Figure Cl-12. Modeled chloride concentrations at Contra Costa Pumping Plant #1 for September of drought years (1987-1991) using the mass balance approach.

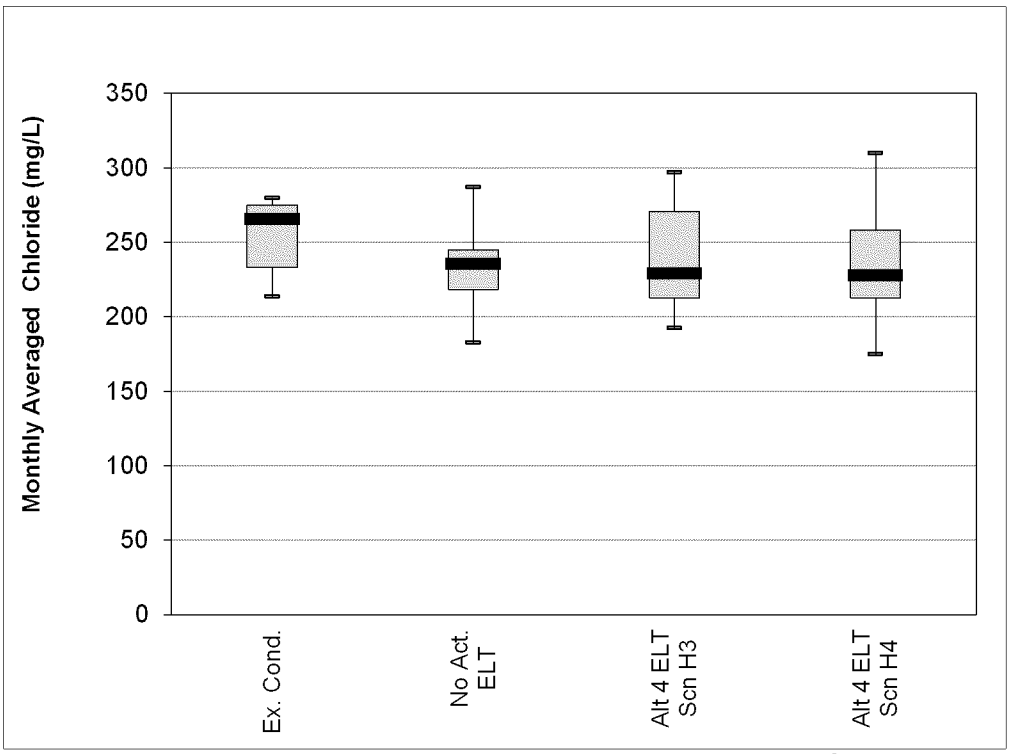


Figure Cl-13. Modeled chloride concentration box-and-whisker plot for Contra Costa Pumping Plant #1 for September of dry and critical water years using the mass balance approach.

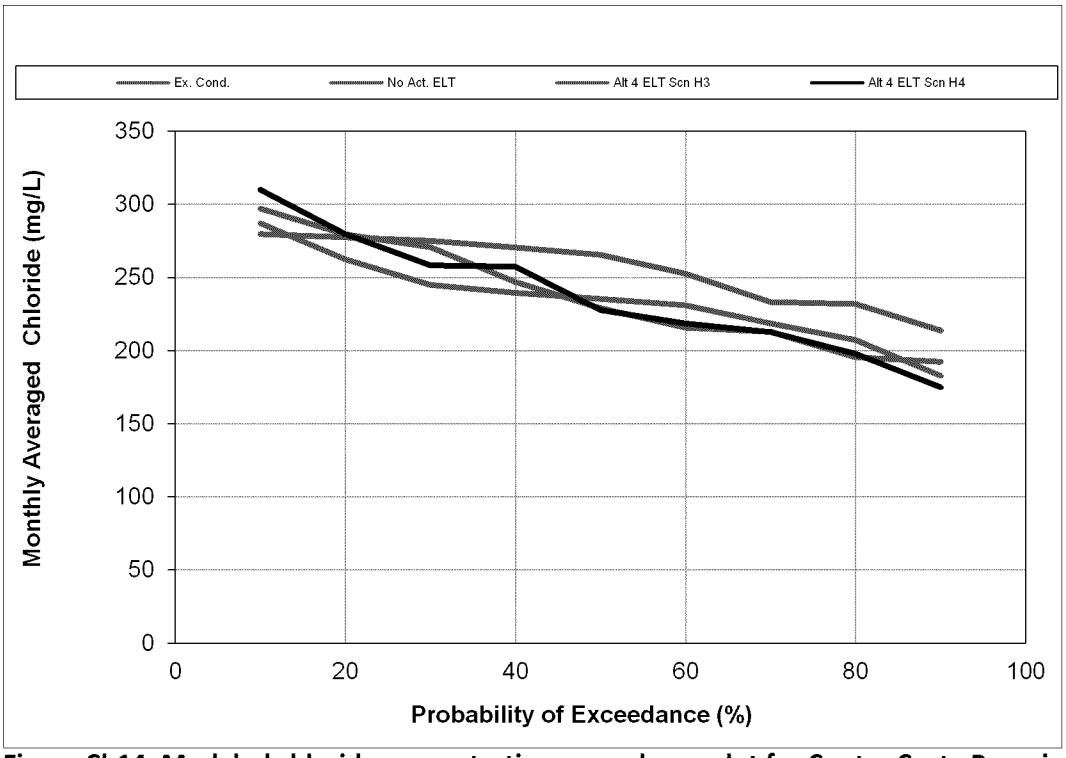


Figure Cl-14. Modeled chloride concentration exceedance plot for Contra Costa Pumping Plant #1 for September of dry and critical water years using the mass balance approach.

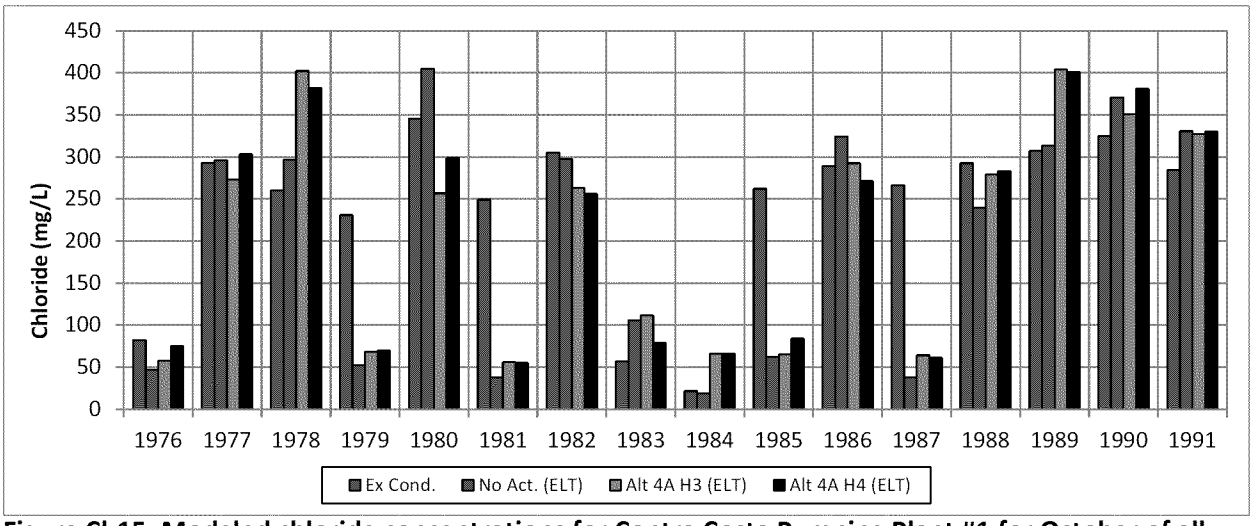


Figure Cl-15. Modeled chloride concentrations for Contra Costa Pumping Plant #1 for October of all modeled years using the mass balance approach.

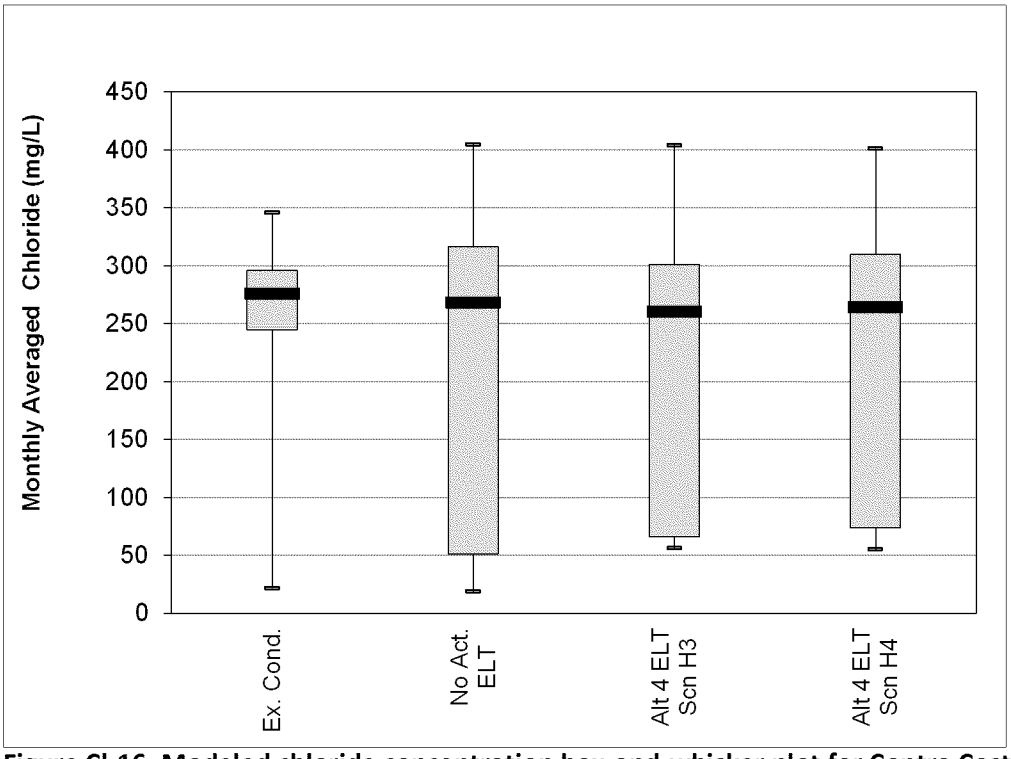


Figure Cl-16. Modeled chloride concentration box-and-whisker plot for Contra Costa Pumping Plant #1 for October of all modeled years using the mass balance approach.

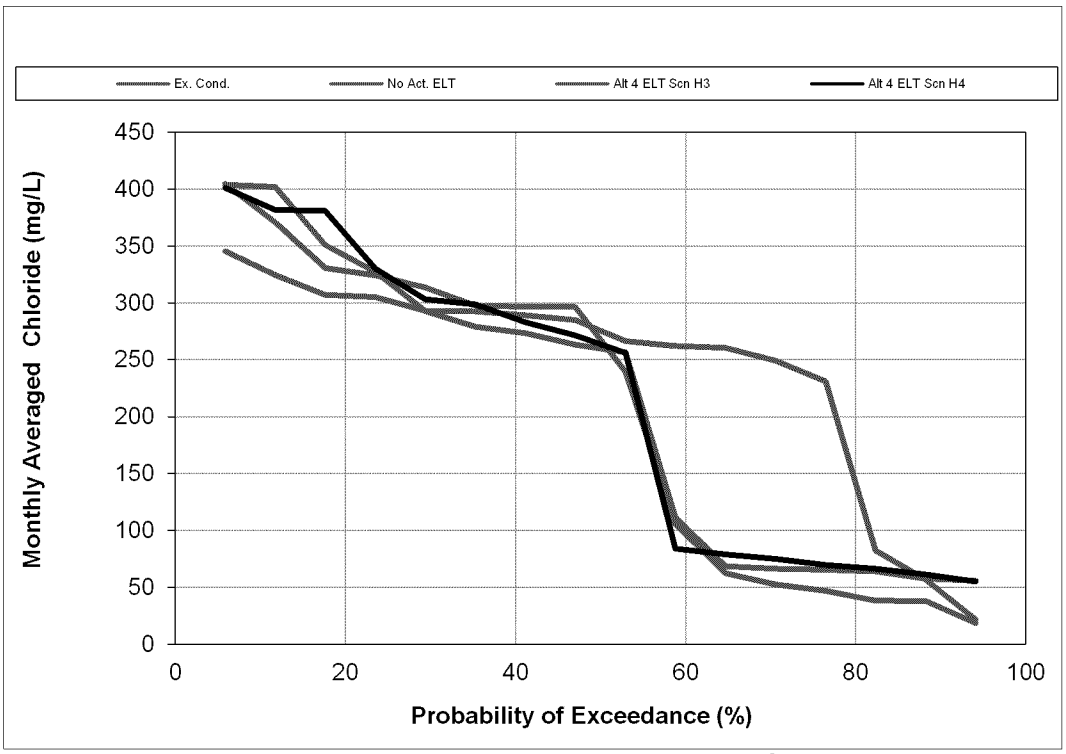


Figure Cl-17. Modeled chloride concentration exceedance plot for Contra Costa Pumping Plant #1 for October of all modeled years using the mass balance approach.

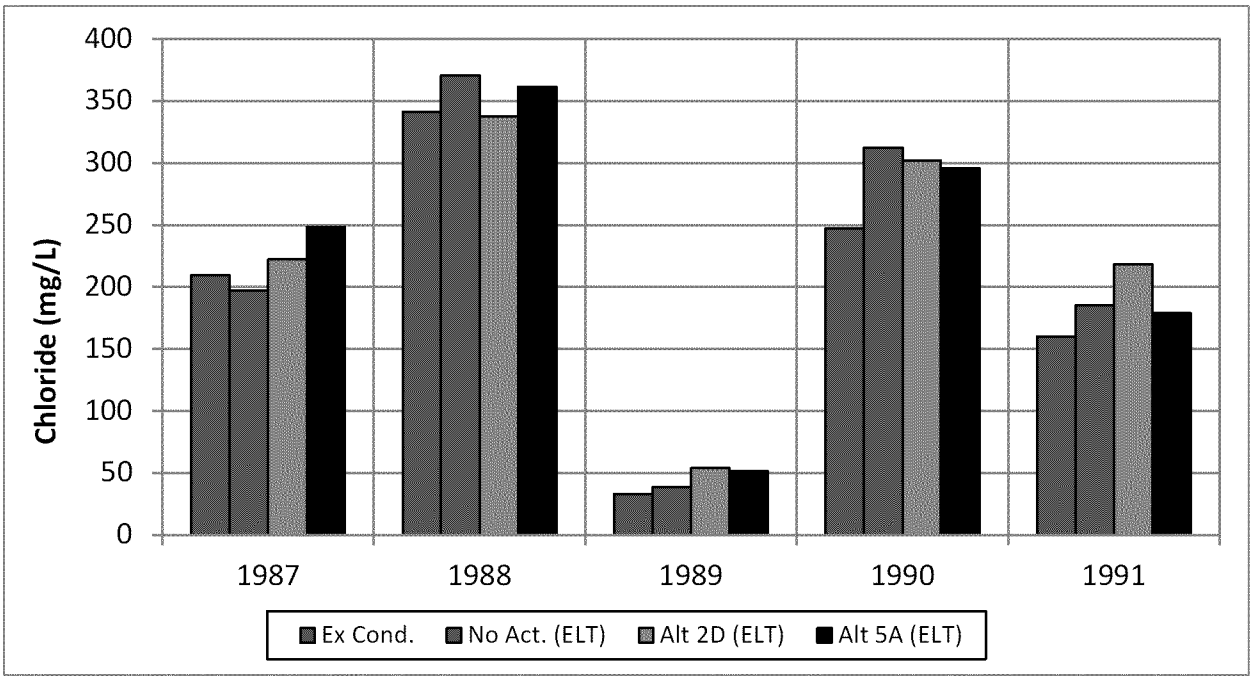


Figure Cl-18. Modeled chloride concentrations in the San Joaquin River at Antioch for April of drought years (1987-1991) using the mass balance approach.

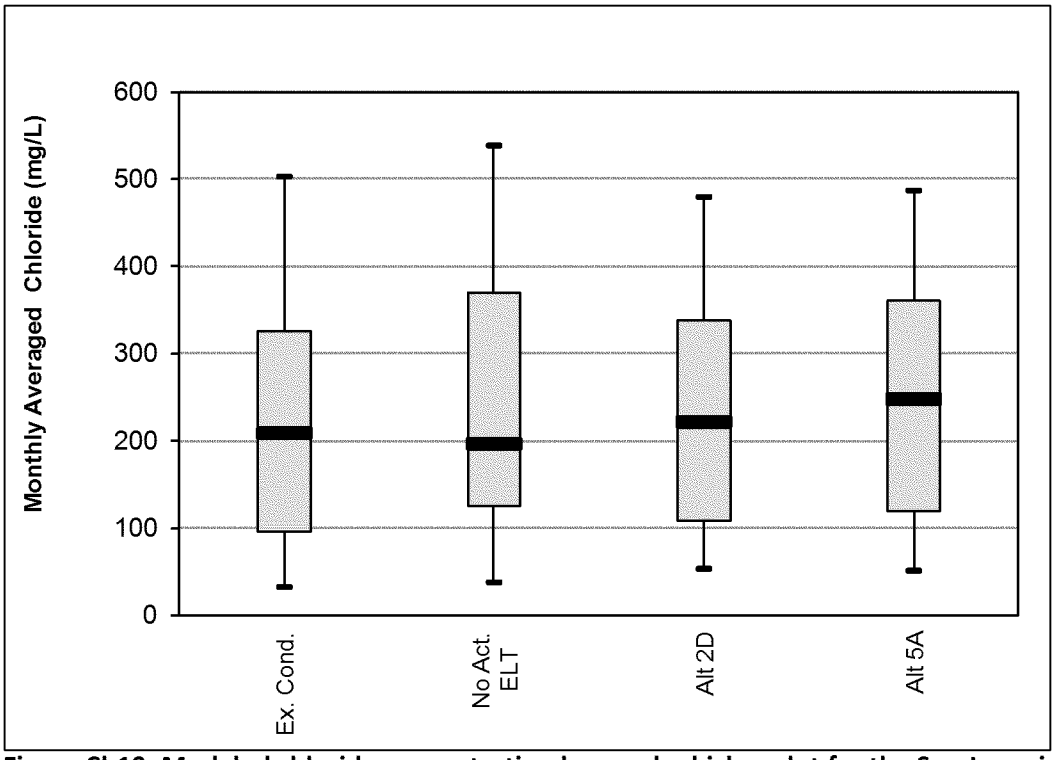


Figure Cl-19. Modeled chloride concentration box-and-whisker plot for the San Joaquin River at Antioch for April of dry and critical water years using the mass balance approach.

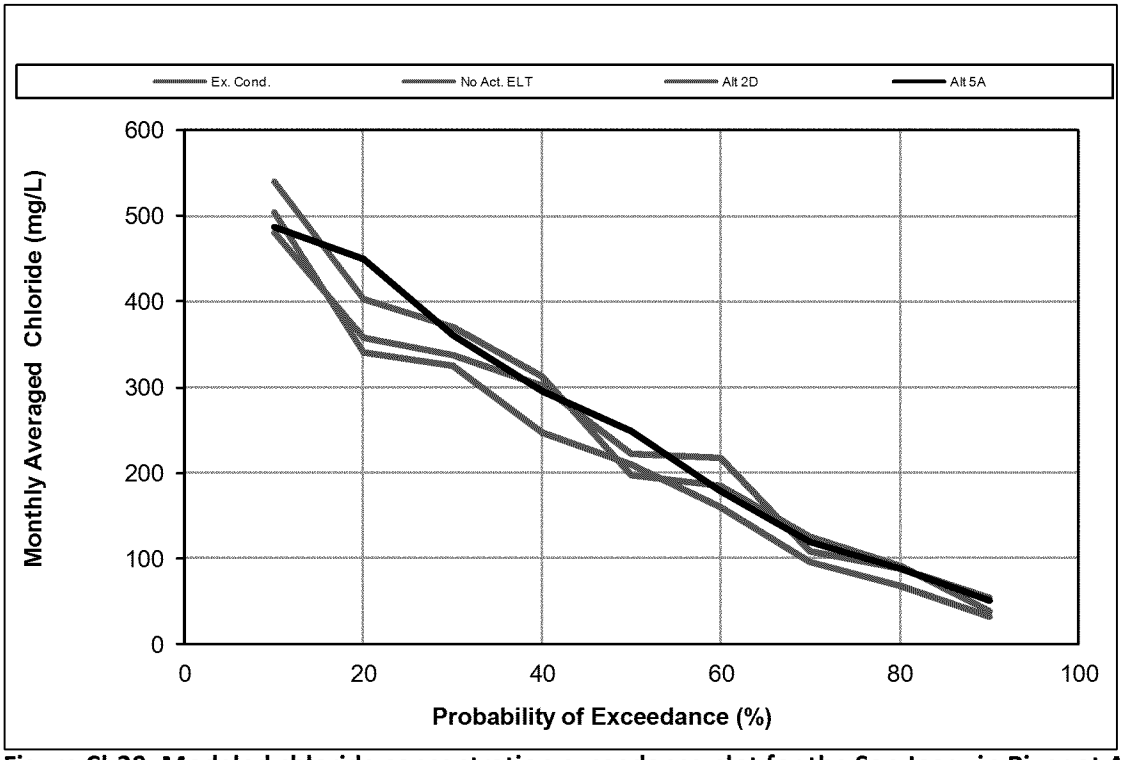


Figure Cl-20. Modeled chloride concentration exceedance plot for the San Joaquin River at Antioch for April of dry and critical water years using the mass balance approach.

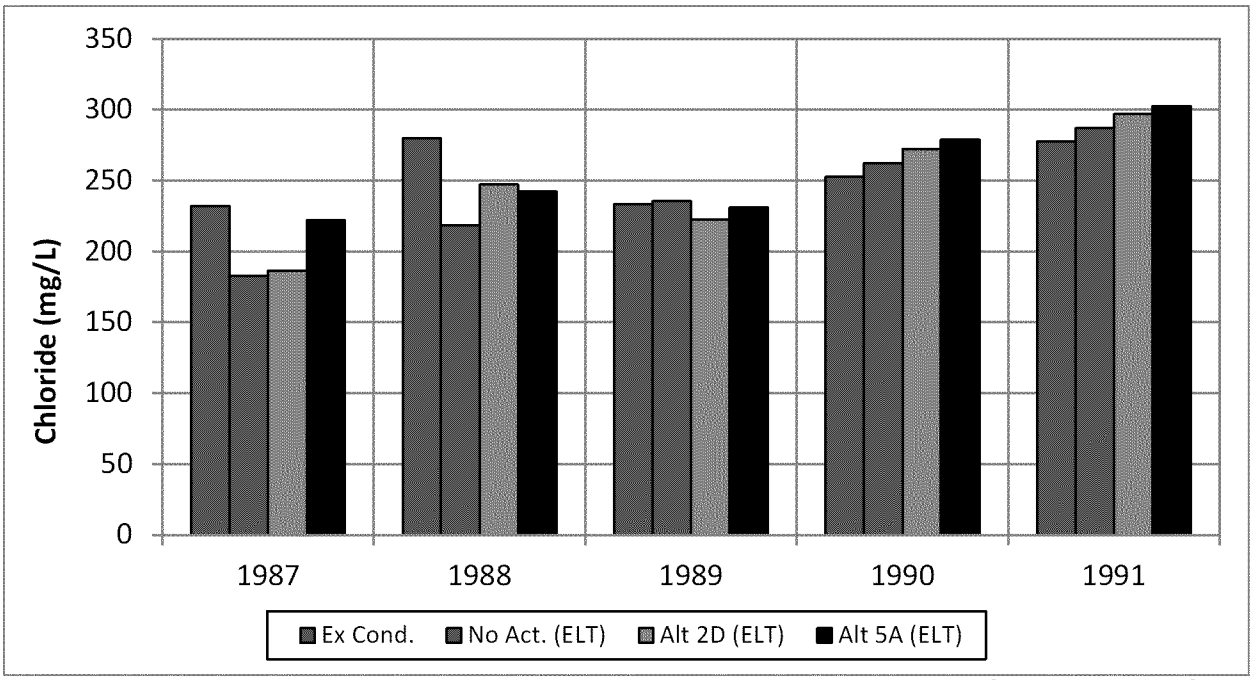


Figure Cl-21. Modeled chloride concentrations at Contra Costa Pumping Plant #1 for September of drought years (1987-1991) using the mass balance approach.

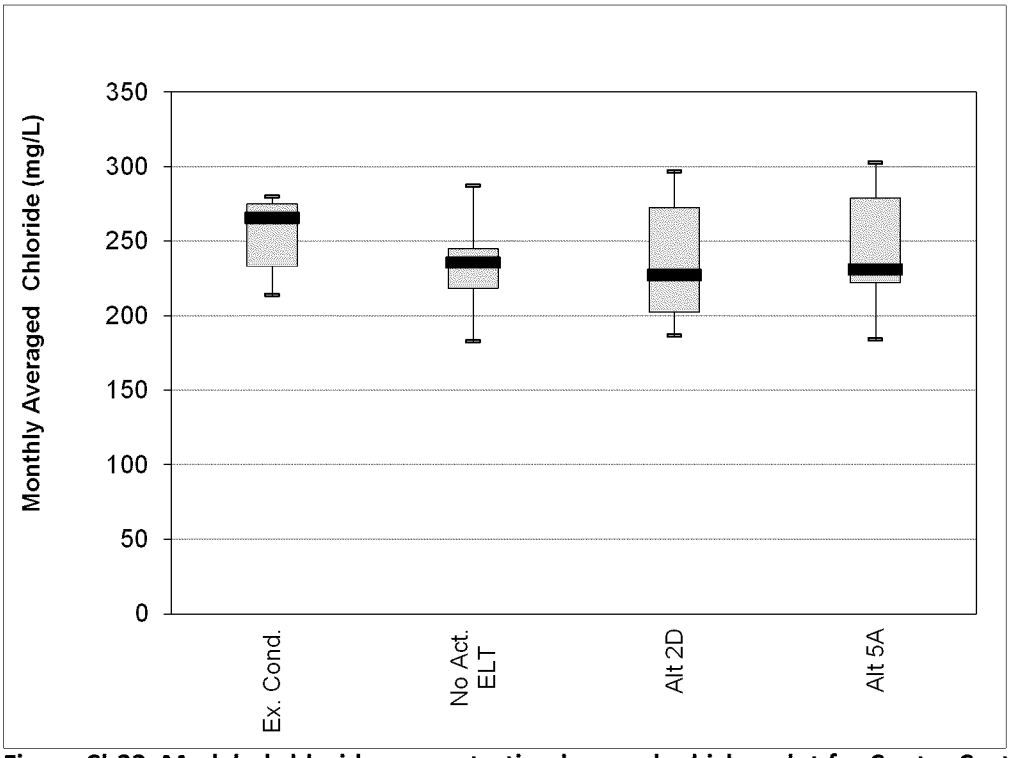


Figure Cl-22. Modeled chloride concentration box-and-whisker plot for Contra Costa Pumping Plant #1 for September of dry and critical water years using the mass balance approach.

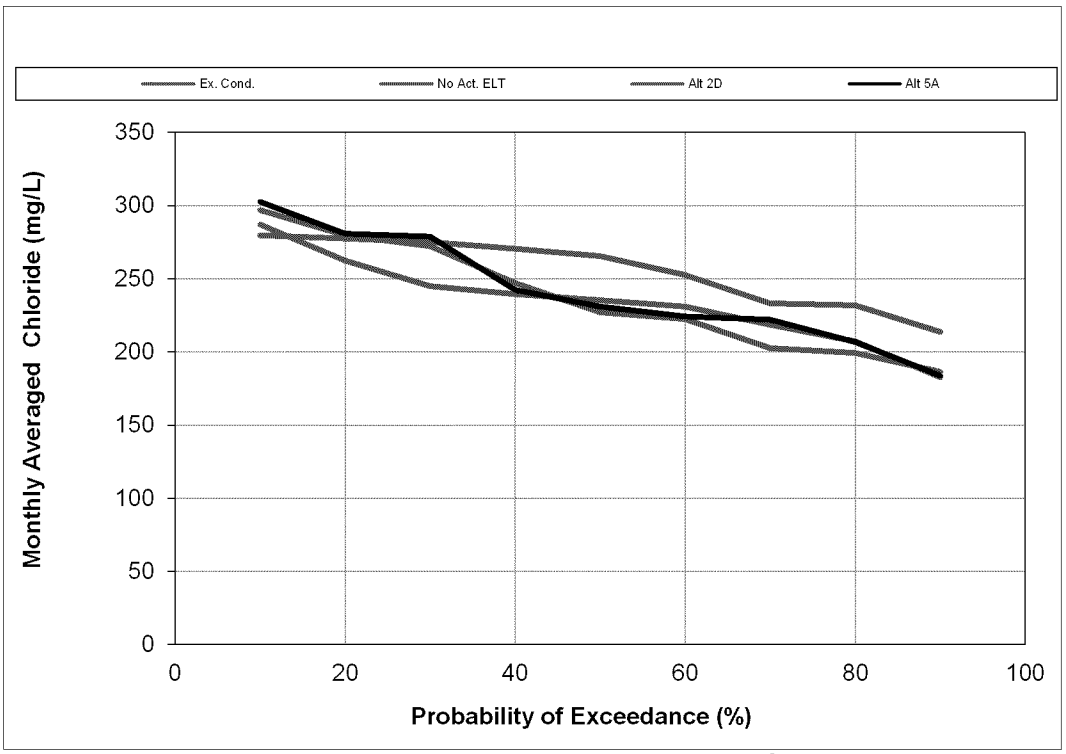


Figure Cl-23. Modeled chloride concentration exceedance plot for Contra Costa Pumping Plant #1 for September of dry and critical water years using the mass balance approach.

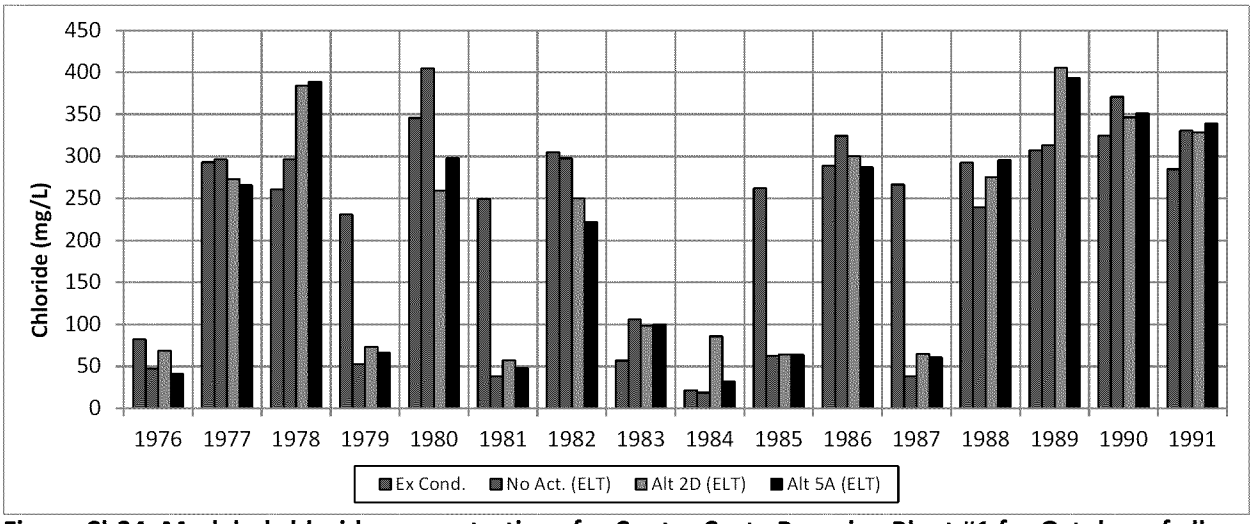


Figure Cl-24. Modeled chloride concentrations for Contra Costa Pumping Plant #1 for October of all modeled years using the mass balance approach.

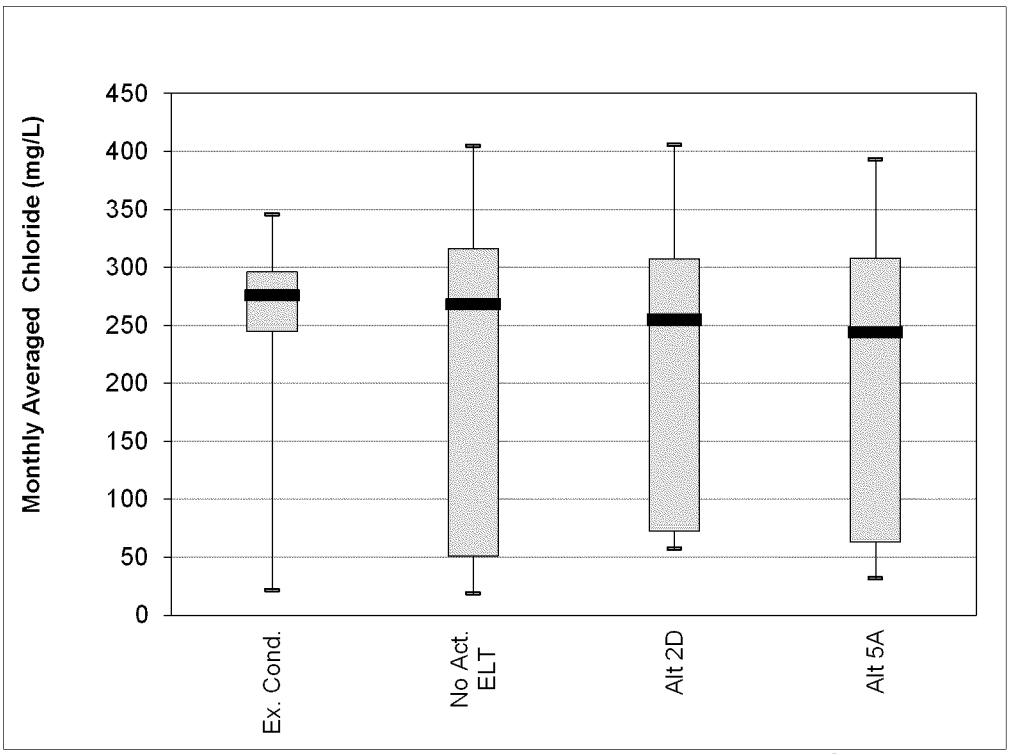


Figure Cl-25. Modeled chloride concentration box-and-whisker plot for Contra Costa Pumping Plant #1 for October of all modeled years using the mass balance approach.

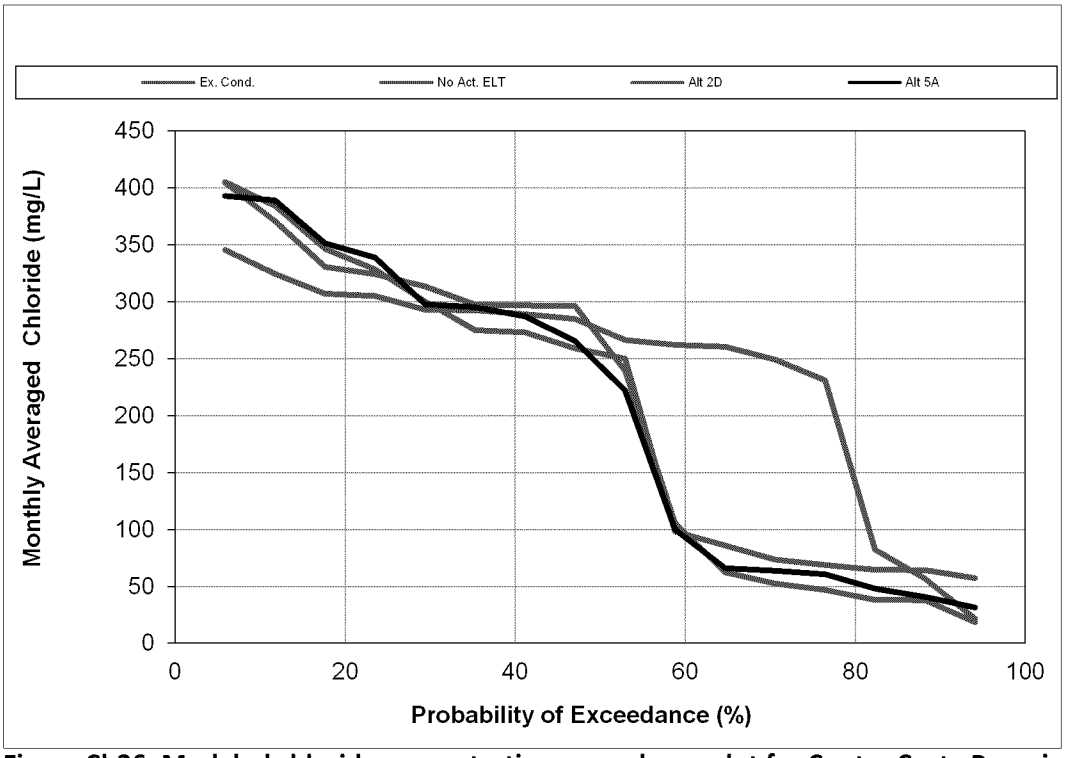


Figure Cl-26. Modeled chloride concentration exceedance plot for Contra Costa Pumping Plant #1 for October of all modeled years using the mass balance approach.