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Long-term and Water Year Type Average Salinity at the Sacramento River at Emmaton under CEQA Existing Condition and CEQA No Project Alternative Conditions

Analysis Period	EC (umhos/cm)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Long-term</b>												
<b>Full Simulation Period<sup>2</sup></b>												
CEQA Existing Condition	2,101	1,668	1,206	755	502	301	314	504	819	1,180	1,648	2,177
CEQA No Project Alternative	2,129	1,673	1,199	739	497	302	313	476	768	1,197	1,709	2,218
Difference	27.8	5.3	-7.0	-15.6	-5.9	1.0	-0.9	-27.5	-51.6	17.1	60.7	41.6
Percent Difference <sup>3</sup>	1.3	0.3	-0.6	-2.1	-1.2	0.3	-0.3	-5.5	-6.3	1.5	3.7	1.9
<b>Water Year Types<sup>1</sup></b>												
<b>Wet</b>												
CEQA Existing Condition	907	680	462	337	169	164	164	173	229	287	722	979
CEQA No Project Alternative	908	680	461	331	169	164	164	173	230	297	747	987
Difference	1.0	0.4	-0.2	-6.2	-0.5	0.0	0.0	0.3	0.8	10.2	25.1	7.9
Percent Difference	0.1	0.1	0.0	-1.8	-0.3	0.0	0.0	0.2	0.3	3.5	3.5	0.8
<b>Above Normal</b>												
CEQA Existing Condition	3,082	2,101	1,022	183	170	164	167	172	233	348	884	1,607
CEQA No Project Alternative	3,183	2,131	999	183	170	164	167	172	235	381	1,035	1,724
Difference	100.4	29.4	-23.3	-0.4	0.0	0.0	0.0	0.3	2.0	33.4	150.2	116.9
Percent Difference	3.3	1.4	-2.3	-0.2	0.0	0.0	0.0	0.2	0.9	9.6	17.0	7.3
<b>Below Normal</b>												
CEQA Existing Condition	2,425	2,209	1,879	391	180	167	180	178	227	485	1,126	2,442
CEQA No Project Alternative	2,483	2,223	1,884	390	180	167	179	178	228	521	1,292	2,732
Difference	57.7	14.1	4.7	-1.0	-0.1	-0.5	-1.0	0.2	1.1	36.6	166.2	290.0
Percent Difference	2.4	0.6	0.2	-0.3	-0.1	-0.3	-0.5	0.1	0.5	7.5	14.8	11.9
<b>Dry</b>												
CEQA Existing Condition	2,637	1,942	1,303	751	556	211	205	329	769	1,159	1,723	2,434
CEQA No Project Alternative	2,676	1,952	1,303	736	548	218	207	302	726	1,219	1,811	2,456
Difference	38.9	9.2	-0.5	-15.2	-8.1	6.2	1.8	-27.4	-42.8	59.3	88.0	21.5
Percent Difference	1.5	0.5	0.0	-2.0	-1.4	2.9	0.9	-8.3	-5.6	5.1	5.1	0.9
<b>Critical</b>												
CEQA Existing Condition	2,409	2,154	1,812	1,477	990	592	637	1,172	1,803	2,560	2,924	3,343
CEQA No Project Alternative	2,419	2,149	1,797	1,443	977	590	632	1,100	1,660	2,540	2,942	3,355
Difference	10.8	-4.4	-14.9	-34.3	-13.3	-1.4	-4.5	-72.1	-142.9	-20.0	17.8	11.5
Percent Difference	0.4	-0.2	-0.8	-2.3	-1.3	-0.2	-0.7	-6.2	-7.9	-0.8	0.6	0.3

1 As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB 1995)

2 Based on the 17-year simulation period

3 Relative difference of the monthly average

### Sacramento River at Emmaton Salinity

October					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	311.8	314.1	2.3	0.7
1976	C	436.9	441.3	4.3	1.0
1977	C	3249.0	3230.2	-18.8	-0.6
1978	AN	3702.8	3688.4	-14.4	-0.4
1979	BN	2425.2	2482.9	57.7	2.4
1980	AN	2461.7	2676.8	215.2	8.7
1981	D	2338.6	2361.1	22.5	1.0
1982	W	1976.2	1982.0	5.9	0.3
1983	W	215.3	216.5	1.2	0.6
1984	W	167.1	167.0	-0.1	-0.1
1985	D	2454.2	2462.2	8.0	0.3
1986	W	1863.4	1859.0	-4.5	-0.2
1987	D	2006.1	2148.5	142.4	7.1
1988	C	2592.9	2591.2	-1.7	-0.1
1989	D	3749.2	3732.0	-17.1	-0.5
1990	C	1946.9	1962.6	15.7	0.8
1991	C	3816.9	3871.2	54.2	1.4
Mean:		2100.8	2128.6	27.8	1.3
Median:		2338.6	2361.1	4.3	0.6
Min:		167.1	167.0	-18.8	-0.6
Max:		3816.9	3871.2	215.2	8.7
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### Sacramento River at Emmaton Salinity

November					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	1075.7	1079.3	3.6	0.3
1976	C	839.0	808.4	-30.6	-3.6
1977	C	2820.4	2813.1	-7.4	-0.3
1978	AN	2884.1	2881.2	-2.9	-0.1
1979	BN	2209.0	2223.2	14.2	0.6
1980	AN	1318.7	1380.3	61.7	4.7
1981	D	2524.4	2531.5	7.1	0.3
1982	W	240.6	240.5	-0.1	0.0
1983	W	158.8	158.6	-0.2	-0.1
1984	W	153.9	153.9	0.0	0.0
1985	D	342.8	330.9	-11.9	-3.5
1986	W	1770.6	1769.2	-1.4	-0.1
1987	D	2380.9	2427.1	46.2	1.9
1988	C	2284.5	2283.1	-1.4	-0.1
1989	D	2521.6	2516.9	-4.6	-0.2
1990	C	1795.8	1801.2	5.4	0.3
1991	C	3028.3	3040.3	12.0	0.4
Mean:		1667.6	1672.9	5.3	0.0
Median:		1795.8	1801.2	-0.1	0.0
Min:		153.9	153.9	-30.6	-3.6
Max:		3028.3	3040.3	61.7	4.7
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### Sacramento River at Emmaton Salinity

December					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	903.0	904.7	1.7	0.2
1976	C	1072.5	1015.1	-57.5	-5.4
1977	C	2600.6	2596.0	-4.6	-0.2
1978	AN	1447.2	1436.1	-11.1	-0.8
1979	BN	1879.1	1883.7	4.7	0.3
1980	AN	597.0	561.5	-35.5	-5.9
1981	D	1315.4	1320.1	4.7	0.4
1982	W	159.7	159.8	0.1	0.1
1983	W	155.2	155.2	0.1	0.1
1984	W	164.5	164.5	0.0	0.0
1985	D	198.0	190.6	-7.4	-3.7
1986	W	925.4	922.6	-2.8	-0.3
1987	D	1838.1	1843.4	5.3	0.3
1988	C	1133.6	1129.9	-3.7	-0.3
1989	D	1860.9	1856.1	-4.8	-0.3
1990	C	1828.1	1813.2	-14.9	-0.8
1991	C	2425.9	2432.1	6.2	0.3
Mean:		1206.1	1199.1	-7.0	-0.9
Median:		1133.6	1129.9	-2.8	-0.2
Min:		155.2	155.2	-57.5	-5.9
Max:		2600.6	2596.0	6.2	0.4
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### Sacramento River at Emmaton Salinity

January					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	873.1	819.7	-53.3	-6.1
1976	C	1195.1	1155.6	-39.5	-3.3
1977	C	2388.0	2359.5	-28.5	-1.2
1978	AN	195.7	195.8	0.1	0.1
1979	BN	391.2	390.2	-1.0	-0.3
1980	AN	170.3	169.3	-1.0	-0.6
1981	D	427.0	398.1	-28.9	-6.8
1982	W	168.7	168.6	0.0	0.0
1983	W	166.3	166.2	-0.1	-0.1
1984	W	158.7	158.7	0.0	0.0
1985	D	431.1	401.4	-29.7	-6.9
1986	W	319.8	342.1	22.3	7.0
1987	D	1094.3	1095.9	1.6	0.1
1988	C	290.0	289.2	-0.8	-0.3
1989	D	1051.9	1048.1	-3.8	-0.4
1990	C	932.0	827.8	-104.2	-11.2
1991	C	2579.4	2581.0	1.6	0.1
Mean:		754.9	739.2	-15.6	-1.8
Median:		427.0	398.1	-1.0	-0.3
Min:		158.7	158.7	-104.2	-11.2
Max:		2579.4	2581.0	22.3	7.0
# Years Rel Diff <= -10%					1
# Years Rel Diff >= 10%					0

### Sacramento River at Emmaton Salinity

February					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	184.7	182.5	-2.2	-1.2
1976	C	887.3	877.4	-9.9	-1.1
1977	C	1570.7	1551.2	-19.5	-1.2
1978	AN	169.1	169.2	0.1	0.1
1979	BN	180.5	180.4	-0.1	-0.1
1980	AN	170.5	170.5	0.0	0.0
1981	D	205.3	199.5	-5.7	-2.8
1982	W	159.3	159.3	0.0	0.0
1983	W	169.4	169.2	-0.1	-0.1
1984	W	158.6	158.7	0.0	0.0
1985	D	502.7	487.5	-15.2	-3.0
1986	W	173.0	173.0	0.0	0.0
1987	D	436.2	436.7	0.5	0.1
1988	C	236.0	235.9	-0.1	0.0
1989	D	1080.3	1068.5	-11.8	-1.1
1990	C	424.1	387.7	-36.4	-8.6
1991	C	1834.0	1833.4	-0.6	0.0
Mean:		502.4	496.5	-5.9	-1.1
Median:		205.3	199.5	-0.1	-0.1
Min:		158.6	158.7	-36.4	-8.6
Max:		1834.0	1833.4	0.5	0.1
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### Sacramento River at Emmaton Salinity

March					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	160.2	160.3	0.1	0.1
1976	C	410.2	410.0	-0.2	0.0
1977	C	1255.6	1254.6	-1.0	-0.1
1978	AN	167.6	167.6	0.0	0.0
1979	BN	167.2	166.7	-0.5	-0.3
1980	AN	160.2	160.2	0.0	0.0
1981	D	163.0	162.4	-0.6	-0.4
1982	W	165.5	165.5	0.0	0.0
1983	W	171.5	171.5	0.0	0.0
1984	W	156.6	156.6	0.0	0.0
1985	D	320.6	343.1	22.6	7.1
1986	W	166.0	166.0	0.0	0.0
1987	D	187.0	187.1	0.1	0.1
1988	C	460.3	460.9	0.7	0.2
1989	D	175.3	177.9	2.7	1.5
1990	C	544.2	537.8	-6.5	-1.2
1991	C	288.9	289.0	0.1	0.0
Mean:		301.2	302.2	1.0	0.4
Median:		171.5	171.5	0.0	0.0
Min:		156.6	156.6	-6.5	-1.2
Max:		1255.6	1254.6	22.6	7.1
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0



### Sacramento River at Emmaton Salinity

#### April

Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	163.3	163.4	0.1	0.1
1976	C	620.1	611.4	-8.8	-1.4
1977	C	1087.8	1087.6	-0.2	0.0
1978	AN	165.2	165.2	-0.1	-0.1
1979	BN	179.8	178.8	-1.0	-0.6
1980	AN	167.8	167.9	0.1	0.1
1981	D	180.8	179.4	-1.4	-0.8
1982	W	162.2	162.2	0.0	0.0
1983	W	159.6	159.6	0.0	0.0
1984	W	163.6	163.6	0.0	0.0
1985	D	259.5	267.4	7.9	3.0
1986	W	169.9	170.0	0.2	0.1
1987	D	218.2	218.4	0.2	0.1
1988	C	712.6	702.1	-10.5	-1.5
1989	D	162.8	163.2	0.4	0.2
1990	C	528.6	528.3	-0.4	-0.1
1991	C	233.5	230.7	-2.8	-1.2
Mean:		313.8	312.9	-1.0	-0.1
Median:		179.8	178.8	0.0	0.0
Min:		159.6	159.6	-10.5	-1.5
Max:		1087.8	1087.6	7.9	3.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### Sacramento River at Emmaton Salinity

May					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	160.5	160.5	0.0	0.0
1976	C	1675.2	1583.6	-91.7	-5.5
1977	C	1841.8	1831.9	-9.9	-0.5
1978	AN	165.7	165.9	0.2	0.1
1979	BN	177.8	178.0	0.2	0.1
1980	AN	178.0	178.3	0.3	0.2
1981	D	280.6	249.6	-31.0	-11.0
1982	W	155.3	155.3	0.0	0.0
1983	W	153.3	153.3	0.0	0.0
1984	W	206.4	207.6	1.2	0.6
1985	D	261.0	261.2	0.2	0.1
1986	W	189.0	189.1	0.1	0.1
1987	D	547.6	468.9	-78.8	-14.4
1988	C	899.2	894.8	-4.4	-0.5
1989	D	226.9	227.1	0.1	0.0
1990	C	872.5	707.6	-164.9	-18.9
1991	C	571.2	481.5	-89.7	-15.7
Mean:		503.6	476.1	-27.5	-3.8
Median:		226.9	227.1	0.0	0.0
Min:		153.3	153.3	-164.9	-18.9
Max:		1841.8	1831.9	1.2	0.6
# Years Rel Diff <= -10%					4
# Years Rel Diff >= 10%					0

### Sacramento River at Emmaton Salinity

June					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	164.3	164.3	0.0	0.0
1976	C	2043.3	1940.3	-103.0	-5.0
1977	C	2307.8	2182.6	-125.2	-5.4
1978	AN	183.0	183.7	0.7	0.4
1979	BN	226.6	227.7	1.1	0.5
1980	AN	283.8	287.1	3.3	1.2
1981	D	722.9	666.9	-56.0	-7.7
1982	W	161.0	161.1	0.1	0.1
1983	W	151.6	151.5	0.0	0.0
1984	W	351.1	355.5	4.4	1.3
1985	D	685.8	688.7	2.9	0.4
1986	W	316.6	315.9	-0.7	-0.2
1987	D	945.1	828.4	-116.7	-12.3
1988	C	1048.5	1001.7	-46.8	-4.5
1989	D	720.5	719.2	-1.3	-0.2
1990	C	1930.6	1677.5	-253.1	-13.1
1991	C	1685.8	1499.5	-186.3	-11.1
Mean:		819.3	767.7	-51.6	-3.3
Median:		685.8	666.9	-0.7	-0.2
Min:		151.6	151.5	-253.1	-13.1
Max:		2307.8	2182.6	4.4	1.3
# Years Rel Diff <= -10%					3
# Years Rel Diff >= 10%					0

### Sacramento River at Emmaton Salinity

July					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	271.9	280.4	8.5	3.1
1976	C	1487.4	1418.0	-69.3	-4.7
1977	C	2528.4	2464.3	-64.1	-2.5
1978	AN	291.4	298.4	7.1	2.4
1979	BN	484.9	521.4	36.6	7.5
1980	AN	404.0	463.6	59.6	14.8
1981	D	1143.8	1216.5	72.8	6.4
1982	W	260.4	266.7	6.2	2.4
1983	W	156.8	156.8	0.0	0.0
1984	W	336.2	349.4	13.2	3.9
1985	D	1030.4	1026.0	-4.4	-0.4
1986	W	407.5	430.2	22.8	5.6
1987	D	1400.7	1444.8	44.1	3.1
1988	C	2652.6	2601.3	-51.3	-1.9
1989	D	1062.1	1186.8	124.7	11.7
1990	C	2983.2	3030.7	47.5	1.6
1991	C	3149.8	3187.2	37.4	1.2
Mean:		1179.5	1196.6	17.1	3.2
Median:		1030.4	1026.0	13.2	2.4
Min:		156.8	156.8	-69.3	-4.7
Max:		3149.8	3187.2	124.7	14.8
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					2

### Sacramento River at Emmaton Salinity

August					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	879.6	895.0	15.4	1.8
1976	C	2315.6	2232.0	-83.6	-3.6
1977	C	3513.3	3453.5	-59.8	-1.7
1978	AN	916.7	1129.9	213.2	23.3
1979	BN	1125.6	1291.7	166.2	14.8
1980	AN	852.2	939.3	87.2	10.2
1981	D	1745.0	1854.3	109.4	6.3
1982	W	925.3	1016.5	91.2	9.9
1983	W	203.0	204.6	1.6	0.8
1984	W	870.8	877.1	6.4	0.7
1985	D	1453.8	1444.2	-9.6	-0.7
1986	W	732.8	743.7	10.9	1.5
1987	D	2162.6	2233.3	70.6	3.3
1988	C	3101.6	3042.4	-59.3	-1.9
1989	D	1532.5	1713.9	181.4	11.8
1990	C	2991.6	3165.8	174.2	5.8
1991	C	2698.7	2816.0	117.3	4.3
Mean:		1648.3	1709.0	60.7	5.1
Median:		1453.8	1444.2	70.6	3.3
Min:		203.0	204.6	-83.6	-3.6
Max:		3513.3	3453.5	213.2	23.3
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					4

**Sacramento River at Emmaton Salinity**

**September**

Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	665.7	673.5	7.8	1.2
1976	C	3366.5	3302.1	-64.4	-1.9
1977	C	3839.9	3797.7	-42.2	-1.1
1978	AN	1697.8	1894.6	196.8	11.6
1979	BN	2441.9	2731.9	290.0	11.9
1980	AN	1516.1	1553.0	36.9	2.4
1981	D	2347.6	2378.4	30.8	1.3
1982	W	794.5	817.3	22.9	2.9
1983	W	166.1	166.5	0.4	0.2
1984	W	1903.2	1906.1	2.8	0.1
1985	D	2077.6	2069.5	-8.1	-0.4
1986	W	1367.4	1372.8	5.5	0.4
1987	D	2979.5	2976.8	-2.6	-0.1
1988	C	3023.5	2977.9	-45.6	-1.5
1989	D	2332.8	2398.6	65.8	2.8
1990	C	3231.4	3367.8	136.4	4.2
1991	C	3254.7	3327.9	73.3	2.3
Mean:		2176.8	2218.4	41.6	2.1
Median:		2332.8	2378.4	7.8	1.2
Min:		166.1	166.5	-64.4	-1.9
Max:		3839.9	3797.7	290.0	11.9
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					2

Long-term and Water Year Type Average Salinity at the San Joaquin River at Jersey Point under CEQA Existing Condition and CEQA No Project Alternative Conditions

Analysis Period	EC (umhos/cm)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Long-term</b>												
<b>Full Simulation Period<sup>2</sup></b>												
CEQA Existing Condition	1,774	1,477	1,357	929	575	341	271	354	547	1,171	1,667	2,125
CEQA No Project Alternative	1,786	1,478	1,350	905	562	341	271	342	525	1,178	1,709	2,167
Difference	11.4	0.9	-6.9	-23.9	-13.5	-0.4	-0.3	-12.3	-22.4	6.7	42.0	42.0
Percent Difference <sup>3</sup>	0.6	0.1	-0.5	-2.6	-2.3	-0.1	-0.1	-3.5	-4.1	0.6	2.5	2.0
<b>Water Year Types<sup>1</sup></b>												
<b>Wet</b>												
CEQA Existing Condition	971	847	684	520	232	181	179	187	205	346	943	1,277
CEQA No Project Alternative	973	847	684	513	229	181	179	187	204	333	940	1,282
Difference	2.1	0.7	-0.2	-6.7	-3.6	-0.1	0.0	0.1	-0.1	-13.2	-3.4	4.7
Percent Difference	0.2	0.1	0.0	-1.3	-1.5	0.0	0.0	0.0	-0.1	-3.8	-0.4	0.4
<b>Above Normal</b>												
CEQA Existing Condition	2,457	1,723	1,545	367	203	200	202	202	209	413	1,176	1,953
CEQA No Project Alternative	2,500	1,732	1,511	362	203	201	202	202	210	428	1,301	2,117
Difference	43.1	9.1	-34.1	-5.1	0.1	0.0	0.0	0.1	0.6	15.0	125.6	163.7
Percent Difference	1.8	0.5	-2.2	-1.4	0.0	0.0	0.0	0.1	0.3	3.6	10.7	8.4
<b>Below Normal</b>												
CEQA Existing Condition	2,139	1,890	1,661	563	238	203	197	205	220	730	1,658	2,559
CEQA No Project Alternative	2,207	1,905	1,666	562	238	203	197	205	220	762	1,832	2,784
Difference	68.2	14.9	4.9	-0.6	-0.2	-0.4	-0.4	0.0	-0.2	31.4	173.9	224.2
Percent Difference	3.2	0.8	0.3	-0.1	-0.1	-0.2	-0.2	0.0	-0.1	4.3	10.5	8.8
<b>Dry</b>												
CEQA Existing Condition	2,206	1,755	1,316	1,063	733	296	204	260	526	1,540	2,169	2,726
CEQA No Project Alternative	2,201	1,754	1,314	1,039	717	301	206	249	509	1,624	2,260	2,762
Difference	-5.3	-1.6	-1.8	-23.9	-16.1	4.3	2.0	-10.4	-16.9	84.3	90.5	36.3
Percent Difference	-0.2	-0.1	-0.1	-2.2	-2.2	1.4	1.0	-4.0	-3.2	5.5	4.2	1.3
<b>Critical</b>												
CEQA Existing Condition	1,885	1,705	1,928	1,527	1,008	620	461	687	1,108	2,092	2,187	2,473
CEQA No Project Alternative	1,895	1,702	1,919	1,474	979	615	458	654	1,045	2,048	2,176	2,472
Difference	10.1	-3.1	-9.3	-53.4	-29.3	-4.7	-2.6	-33.5	-62.7	-43.8	-11.4	-1.3
Percent Difference	0.5	-0.2	-0.5	-3.5	-2.9	-0.8	-0.6	-4.9	-5.7	-2.1	-0.5	-0.1

1 As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB 1995)

2 Based on the 17-year simulation period

3 Relative difference of the monthly average

### San Joaquin River at Jersey Point Salinity

October					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	227.9	229.6	1.8	0.8
1976	C	442.7	447.6	4.9	1.1
1977	C	2208.5	2193.6	-14.9	-0.7
1978	AN	2515.7	2502.4	-13.3	-0.5
1979	BN	2139.2	2207.4	68.2	3.2
1980	AN	2397.5	2497.0	99.5	4.2
1981	D	1757.0	1774.0	17.0	1.0
1982	W	2141.2	2150.2	8.9	0.4
1983	W	212.9	213.6	0.7	0.3
1984	W	187.4	187.2	-0.2	-0.1
1985	D	2573.3	2581.4	8.1	0.3
1986	W	2086.2	2085.5	-0.7	0.0
1987	D	2024.6	1993.1	-31.5	-1.6
1988	C	1955.4	1957.8	2.4	0.1
1989	D	2470.8	2456.0	-14.8	-0.6
1990	C	2213.5	2230.9	17.4	0.8
1991	C	2606.4	2646.9	40.6	1.6
Mean:		1774.1	1785.5	11.4	0.6
Median:		2139.2	2150.2	2.4	0.3
Min:		187.4	187.2	-31.5	-1.6
Max:		2606.4	2646.9	99.5	4.2
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0



### San Joaquin River at Jersey Point Salinity

November					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	1362.3	1366.7	4.3	0.3
1976	C	1118.1	1083.7	-34.5	-3.1
1977	C	2142.8	2142.7	-0.1	0.0
1978	AN	1778.8	1775.6	-3.2	-0.2
1979	BN	1890.0	1904.9	14.9	0.8
1980	AN	1666.6	1688.0	21.4	1.3
1981	D	1940.5	1945.1	4.6	0.2
1982	W	745.5	745.7	0.2	0.0
1983	W	172.1	172.0	-0.1	-0.1
1984	W	168.5	168.5	0.0	0.0
1985	D	1269.9	1238.6	-31.2	-2.5
1986	W	1784.5	1783.8	-0.7	0.0
1987	D	2027.2	2051.1	23.9	1.2
1988	C	1822.6	1824.9	2.3	0.1
1989	D	1783.6	1780.1	-3.5	-0.2
1990	C	1603.8	1608.6	4.8	0.3
1991	C	1839.2	1851.3	12.1	0.7
Mean:		1477.4	1478.3	0.9	-0.1
Median:		1778.8	1775.6	0.2	0.0
Min:		168.5	168.5	-34.5	-3.1
Max:		2142.8	2142.7	23.9	1.3
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### San Joaquin River at Jersey Point Salinity

December					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	1441.6	1444.3	2.7	0.2
1976	C	1755.3	1670.0	-85.3	-4.9
1977	C	2058.4	2062.0	3.6	0.2
1978	AN	2004.7	1992.1	-12.7	-0.6
1979	BN	1661.4	1666.4	4.9	0.3
1980	AN	1085.1	1029.6	-55.5	-5.1
1981	D	1582.7	1587.5	4.7	0.3
1982	W	182.8	183.0	0.2	0.1
1983	W	162.5	162.5	0.0	0.0
1984	W	157.8	157.7	-0.1	-0.1
1985	D	274.4	260.0	-14.4	-5.2
1986	W	1475.0	1471.0	-3.9	-0.3
1987	D	1669.5	1676.2	6.7	0.4
1988	C	1887.2	1880.4	-6.8	-0.4
1989	D	1737.6	1733.6	-4.0	-0.2
1990	C	2475.3	2511.4	36.1	1.5
1991	C	1463.0	1468.9	6.0	0.4
Mean:		1357.3	1350.4	-6.9	-0.8
Median:		1582.7	1587.5	0.0	0.0
Min:		157.8	157.7	-85.3	-5.2
Max:		2475.3	2511.4	36.1	1.5
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### San Joaquin River at Jersey Point Salinity

January					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	1457.6	1387.4	-70.2	-4.8
1976	C	1754.0	1694.0	-60.0	-3.4
1977	C	1679.4	1655.9	-23.5	-1.4
1978	AN	478.5	477.2	-1.3	-0.3
1979	BN	562.6	562.0	-0.6	-0.1
1980	AN	255.8	246.9	-8.9	-3.5
1981	D	825.7	776.6	-49.1	-5.9
1982	W	205.8	205.9	0.0	0.0
1983	W	190.5	190.5	0.0	0.0
1984	W	163.2	163.3	0.1	0.1
1985	D	639.8	595.5	-44.3	-6.9
1986	W	582.9	619.6	36.7	6.3
1987	D	1454.8	1457.1	2.3	0.2
1988	C	772.2	768.6	-3.7	-0.5
1989	D	1332.8	1328.4	-4.4	-0.3
1990	C	1918.9	1736.7	-182.2	-9.5
1991	C	1512.4	1514.8	2.3	0.2
Mean:		928.6	904.7	-23.9	-1.8
Median:		772.2	768.6	-3.7	-0.3
Min:		163.2	163.3	-182.2	-9.5
Max:		1918.9	1736.7	36.7	6.3
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### San Joaquin River at Jersey Point Salinity

February					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	427.9	408.2	-19.7	-4.6
1976	C	1536.3	1513.8	-22.6	-1.5
1977	C	1105.0	1085.7	-19.3	-1.7
1978	AN	219.3	219.5	0.2	0.1
1979	BN	238.0	237.8	-0.2	-0.1
1980	AN	187.4	187.3	-0.1	-0.1
1981	D	375.7	354.2	-21.4	-5.7
1982	W	177.1	177.1	0.0	0.0
1983	W	168.6	168.6	0.0	0.0
1984	W	175.4	175.4	0.0	0.0
1985	D	834.7	797.5	-37.2	-4.5
1986	W	211.4	213.2	1.8	0.9
1987	D	876.8	877.8	0.9	0.1
1988	C	288.6	288.4	-0.3	-0.1
1989	D	843.5	837.0	-6.5	-0.8
1990	C	843.5	739.2	-104.3	-12.4
1991	C	1266.3	1266.0	-0.3	0.0
Mean:		575.0	561.6	-13.5	-1.8
Median:		375.7	354.2	-0.3	-0.1
Min:		168.6	168.6	-104.3	-12.4
Max:		1536.3	1513.8	1.8	0.9
# Years Rel Diff <= -10%					1
# Years Rel Diff >= 10%					0

### San Joaquin River at Jersey Point Salinity

March					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	186.4	186.3	-0.2	-0.1
1976	C	785.0	782.4	-2.6	-0.3
1977	C	790.7	786.5	-4.2	-0.5
1978	AN	221.3	221.4	0.0	0.0
1979	BN	203.0	202.6	-0.4	-0.2
1980	AN	179.6	179.6	0.0	0.0
1981	D	198.8	196.3	-2.5	-1.3
1982	W	192.8	192.8	0.0	0.0
1983	W	170.6	170.6	0.0	0.0
1984	W	173.1	173.1	0.0	0.0
1985	D	407.2	416.7	9.5	2.3
1986	W	183.1	182.9	-0.2	-0.1
1987	D	270.1	270.4	0.3	0.1
1988	C	308.9	309.0	0.0	0.0
1989	D	309.1	318.9	9.8	3.2
1990	C	551.5	534.7	-16.8	-3.0
1991	C	663.9	664.2	0.2	0.0
Mean:		340.9	340.5	-0.4	0.0
Median:		221.3	221.4	0.0	0.0
Min:		170.6	170.6	-16.8	-3.0
Max:		790.7	786.5	9.8	3.2
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### San Joaquin River at Jersey Point Salinity

April					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	184.2	184.3	0.0	0.0
1976	C	457.4	453.8	-3.6	-0.8
1977	C	716.2	715.5	-0.7	-0.1
1978	AN	217.5	217.5	0.0	0.0
1979	BN	197.2	196.8	-0.4	-0.2
1980	AN	186.6	186.6	0.0	0.0
1981	D	183.8	183.4	-0.4	-0.2
1982	W	167.6	167.6	0.0	0.0
1983	W	174.7	174.6	-0.1	-0.1
1984	W	177.0	177.0	0.0	0.0
1985	D	242.0	249.2	7.2	3.0
1986	W	191.8	192.1	0.2	0.1
1987	D	212.2	212.4	0.2	0.1
1988	C	485.3	480.1	-5.2	-1.1
1989	D	176.8	177.9	1.1	0.6
1990	C	415.4	412.6	-2.8	-0.7
1991	C	228.8	228.0	-0.8	-0.3
Mean:		271.4	271.1	-0.3	0.0
Median:		197.2	196.8	0.0	0.0
Min:		167.6	167.6	-5.2	-1.1
Max:		716.2	715.5	7.2	3.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### San Joaquin River at Jersey Point Salinity

May					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	194.5	194.6	0.0	0.0
1976	C	973.1	924.7	-48.4	-5.0
1977	C	1007.5	1003.3	-4.3	-0.4
1978	AN	196.5	196.6	0.1	0.1
1979	BN	204.8	204.8	0.0	0.0
1980	AN	207.9	208.0	0.1	0.0
1981	D	236.8	227.4	-9.3	-3.9
1982	W	165.2	165.2	0.0	0.0
1983	W	164.8	164.8	0.0	0.0
1984	W	217.3	217.5	0.2	0.1
1985	D	240.2	240.4	0.2	0.1
1986	W	194.0	194.1	0.1	0.1
1987	D	357.9	325.1	-32.7	-9.1
1988	C	587.5	583.7	-3.9	-0.7
1989	D	204.6	204.8	0.2	0.1
1990	C	506.4	433.9	-72.5	-14.3
1991	C	360.7	322.4	-38.3	-10.6
Mean:		354.1	341.8	-12.3	-2.6
Median:		217.3	217.5	0.0	0.0
Min:		164.8	164.8	-72.5	-14.3
Max:		1007.5	1003.3	0.2	0.1
# Years Rel Diff <= -10%					2
# Years Rel Diff >= 10%					0

### San Joaquin River at Jersey Point Salinity

June					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	180.6	180.6	0.0	0.0
1976	C	1518.7	1467.7	-50.9	-3.4
1977	C	1361.2	1330.0	-31.2	-2.3
1978	AN	192.1	192.3	0.2	0.1
1979	BN	220.1	219.9	-0.2	-0.1
1980	AN	225.8	226.8	1.0	0.4
1981	D	542.5	519.9	-22.7	-4.2
1982	W	173.2	173.3	0.1	0.1
1983	W	151.4	151.4	0.0	0.0
1984	W	291.0	290.5	-0.5	-0.2
1985	D	546.2	545.6	-0.6	-0.1
1986	W	226.3	226.1	-0.3	-0.1
1987	D	566.6	522.9	-43.7	-7.7
1988	C	608.1	598.9	-9.2	-1.5
1989	D	448.8	448.0	-0.9	-0.2
1990	C	1076.2	944.4	-131.8	-12.2
1991	C	976.1	885.7	-90.4	-9.3
Mean:		547.4	524.9	-22.4	-2.4
Median:		448.8	448.0	-0.6	-0.2
Min:		151.4	151.4	-131.8	-12.2
Max:		1518.7	1467.7	1.0	0.4
# Years Rel Diff <= -10%					1
# Years Rel Diff >= 10%					0



### San Joaquin River at Jersey Point Salinity

July					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	339.5	330.5	-9.0	-2.7
1976	C	1507.4	1453.0	-54.4	-3.6
1977	C	2117.3	2091.8	-25.5	-1.2
1978	AN	379.7	372.0	-7.6	-2.0
1979	BN	730.4	761.9	31.5	4.3
1980	AN	446.0	483.7	37.7	8.5
1981	D	1674.0	1785.2	111.1	6.6
1982	W	269.6	265.6	-4.0	-1.5
1983	W	162.9	162.8	-0.1	-0.1
1984	W	409.8	385.2	-24.5	-6.0
1985	D	1703.4	1706.0	2.6	0.2
1986	W	549.8	521.4	-28.3	-5.1
1987	D	1344.0	1431.2	87.2	6.5
1988	C	2030.9	2018.7	-12.2	-0.6
1989	D	1437.1	1573.4	136.3	9.5
1990	C	2347.0	2275.3	-71.7	-3.1
1991	C	2456.6	2401.5	-55.1	-2.2
Mean:		1170.9	1177.6	6.7	0.4
Median:		1344.0	1431.2	-7.6	-1.2
Min:		162.9	162.8	-71.7	-6.0
Max:		2456.6	2401.5	136.3	9.5
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### San Joaquin River at Jersey Point Salinity

August					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	1176.5	1184.1	7.5	0.6
1976	C	1712.8	1669.3	-43.5	-2.5
1977	C	2489.1	2467.9	-21.2	-0.9
1978	AN	1231.5	1434.9	203.4	16.5
1979	BN	1657.8	1831.7	173.9	10.5
1980	AN	1119.5	1167.4	47.9	4.3
1981	D	2134.1	2240.9	106.7	5.0
1982	W	1166.9	1138.5	-28.5	-2.4
1983	W	222.0	223.8	1.8	0.8
1984	W	1074.7	1073.4	-1.3	-0.1
1985	D	2198.7	2197.7	-0.9	0.0
1986	W	1076.7	1080.2	3.5	0.3
1987	D	2319.1	2423.9	104.9	4.5
1988	C	2057.6	2035.2	-22.3	-1.1
1989	D	2024.0	2175.5	151.5	7.5
1990	C	2224.7	2251.1	26.4	1.2
1991	C	2451.1	2454.5	3.5	0.1
Mean:		1666.9	1708.8	42.0	2.6
Median:		1712.8	1831.7	3.5	0.6
Min:		222.0	223.8	-43.5	-2.5
Max:		2489.1	2467.9	203.4	16.5
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					2

### San Joaquin River at Jersey Point Salinity

#### September

Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	1151.0	1163.8	12.8	1.1
1976	C	2808.7	2782.4	-26.4	-0.9
1977	C	2790.6	2768.2	-22.3	-0.8
1978	AN	2103.0	2389.4	286.5	13.6
1979	BN	2559.5	2783.6	224.2	8.8
1980	AN	1803.6	1844.6	41.0	2.3
1981	D	2788.1	2828.9	40.8	1.5
1982	W	993.9	1002.8	8.9	0.9
1983	W	202.9	204.3	1.5	0.7
1984	W	2296.2	2295.4	-0.8	0.0
1985	D	2672.5	2670.1	-2.5	-0.1
1986	W	1741.2	1742.5	1.3	0.1
1987	D	2960.9	2989.5	28.6	1.0
1988	C	2072.6	2052.5	-20.1	-1.0
1989	D	2482.5	2560.9	78.4	3.2
1990	C	2253.0	2304.1	51.0	2.3
1991	C	2441.5	2452.8	11.3	0.5
Mean:		2124.8	2166.8	42.0	2.0
Median:		2296.2	2389.4	11.3	0.9
Min:		202.9	204.3	-26.4	-1.0
Max:		2960.9	2989.5	286.5	13.6
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					1

Long-term and Water Year Type Average Salinity at the San Joaquin River at Airport Way Bridge (Vernalis) under CEQA Existing Condition and CEQA No Project Alternative Conditions

Analysis Period	EC (umhos/cm)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Long-term</b>												
<b>Full Simulation Period<sup>2</sup></b>												
CEQA Existing Condition	582	649	560	496	512	540	422	428	534	642	775	948
CEQA No Project Alternative	582	649	560	496	512	540	422	428	534	642	775	948
Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Percent Difference <sup>3</sup>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Water Year Types<sup>1</sup></b>												
<b>Wet</b>												
CEQA Existing Condition	497	545	448	338	200	235	247	274	349	538	693	737
CEQA No Project Alternative	497	545	448	338	200	235	247	274	349	538	693	737
Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Percent Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Above Normal</b>												
CEQA Existing Condition	715	719	600	232	173	251	240	260	284	526	671	700
CEQA No Project Alternative	715	719	600	232	173	251	240	260	284	526	671	700
Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Percent Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Below Normal</b>												
CEQA Existing Condition	373	712	589	305	212	284	301	338	623	705	702	896
CEQA No Project Alternative	373	712	589	305	212	284	301	338	623	705	702	896
Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Percent Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Dry</b>												
CEQA Existing Condition	577	690	592	629	721	711	538	517	689	664	769	1,094
CEQA No Project Alternative	577	690	592	629	721	711	538	517	689	664	769	1,094
Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Percent Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Critical</b>												
CEQA Existing Condition	658	681	624	691	854	875	602	597	678	761	919	1,153
CEQA No Project Alternative	658	681	624	691	854	875	602	597	678	761	919	1,153
Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Percent Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

1 As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB 1995)

2 Based on the 17-year simulation period

3 Relative difference of the monthly average

### San Joaquin River at Airport Way Bridge (Vernalis) Salinity

October					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	484.5	484.5	0.0	0.0
1976	C	431.8	431.8	0.0	0.0
1977	C	500.9	500.9	0.0	0.0
1978	AN	763.4	763.4	0.0	0.0
1979	BN	372.5	372.5	0.0	0.0
1980	AN	666.4	666.4	0.0	0.0
1981	D	353.7	353.7	0.0	0.0
1982	W	805.2	805.2	0.0	0.0
1983	W	195.3	195.3	0.0	0.0
1984	W	199.4	199.4	0.0	0.0
1985	D	685.7	685.7	0.0	0.0
1986	W	800.2	800.2	0.0	0.0
1987	D	477.2	477.2	0.0	0.0
1988	C	791.7	791.7	0.0	0.0
1989	D	792.2	792.2	0.0	0.0
1990	C	793.9	793.9	0.0	0.0
1991	C	772.6	772.6	0.0	0.0
Mean:		581.6	581.6	0.0	0.0
Median:		666.4	666.4	0.0	0.0
Min:		195.3	195.3	0.0	0.0
Max:		805.2	805.2	0.0	0.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### San Joaquin River at Airport Way Bridge (Vernalis) Salinity

November					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	690.7	690.7	0.0	0.0
1976	C	670.5	670.5	0.0	0.0
1977	C	555.9	555.9	0.0	0.0
1978	AN	779.6	779.6	0.0	0.0
1979	BN	712.3	712.3	0.0	0.0
1980	AN	658.6	658.6	0.0	0.0
1981	D	688.3	688.3	0.0	0.0
1982	W	807.8	807.8	0.0	0.0
1983	W	252.6	252.6	0.0	0.0
1984	W	166.9	166.9	0.0	0.0
1985	D	661.7	661.7	0.0	0.0
1986	W	806.1	806.1	0.0	0.0
1987	D	678.5	678.5	0.0	0.0
1988	C	764.0	764.0	0.0	0.0
1989	D	732.5	732.5	0.0	0.0
1990	C	719.7	719.7	0.0	0.0
1991	C	694.9	694.9	0.0	0.0
Mean:		649.5	649.5	0.0	0.0
Median:		690.7	690.7	0.0	0.0
Min:		166.9	166.9	0.0	0.0
Max:		807.8	807.8	0.0	0.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### San Joaquin River at Airport Way Bridge (Vernalis) Salinity

December					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	585.0	585.0	0.0	0.0
1976	C	575.3	575.3	0.0	0.0
1977	C	585.9	585.9	0.0	0.0
1978	AN	642.8	642.8	0.0	0.0
1979	BN	589.5	589.5	0.0	0.0
1980	AN	556.4	556.4	0.0	0.0
1981	D	584.0	584.0	0.0	0.0
1982	W	718.5	718.5	0.0	0.0
1983	W	118.4	118.4	0.0	0.0
1984	W	111.4	111.4	0.0	0.0
1985	D	583.0	583.0	0.0	0.0
1986	W	704.3	704.3	0.0	0.0
1987	D	598.0	598.0	0.0	0.0
1988	C	690.6	690.6	0.0	0.0
1989	D	601.8	601.8	0.0	0.0
1990	C	655.4	655.4	0.0	0.0
1991	C	613.0	613.0	0.0	0.0
Mean:		559.6	559.6	0.0	0.0
Median:		589.5	589.5	0.0	0.0
Min:		111.4	111.4	0.0	0.0
Max:		718.5	718.5	0.0	0.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**San Joaquin River at Airport Way Bridge (Vernalis) Salinity**

January					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	609.0	609.0	0.0	0.0
1976	C	635.4	635.4	0.0	0.0
1977	C	721.3	721.3	0.0	0.0
1978	AN	330.6	330.6	0.0	0.0
1979	BN	305.3	305.3	0.0	0.0
1980	AN	133.9	133.9	0.0	0.0
1981	D	552.2	552.2	0.0	0.0
1982	W	240.2	240.2	0.0	0.0
1983	W	103.4	103.4	0.0	0.0
1984	W	138.0	138.0	0.0	0.0
1985	D	636.5	636.5	0.0	0.0
1986	W	599.5	599.5	0.0	0.0
1987	D	643.3	643.3	0.0	0.0
1988	C	703.0	703.0	0.0	0.0
1989	D	684.9	684.9	0.0	0.0
1990	C	700.1	700.1	0.0	0.0
1991	C	697.6	697.6	0.0	0.0
Mean:		496.1	496.1	0.0	0.0
Median:		609.0	609.0	0.0	0.0
Min:		103.4	103.4	0.0	0.0
Max:		721.3	721.3	0.0	0.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0



**San Joaquin River at Airport Way Bridge (Vernalis) Salinity**

<b>February</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>EC (umhos/cm)</b>	<b>EC (umhos/cm)</b>		
1975	W	332.1	332.1	0.0	0.0
1976	C	741.0	741.0	0.0	0.0
1977	C	905.9	905.9	0.0	0.0
1978	AN	231.6	231.6	0.0	0.0
1979	BN	212.4	212.4	0.0	0.0
1980	AN	113.4	113.4	0.0	0.0
1981	D	612.0	612.0	0.0	0.0
1982	W	176.4	176.4	0.0	0.0
1983	W	101.4	101.4	0.0	0.0
1984	W	230.1	230.1	0.0	0.0
1985	D	715.2	715.2	0.0	0.0
1986	W	159.4	159.4	0.0	0.0
1987	D	730.5	730.5	0.0	0.0
1988	C	892.7	892.7	0.0	0.0
1989	D	825.1	825.1	0.0	0.0
1990	C	853.1	853.1	0.0	0.0
1991	C	878.1	878.1	0.0	0.0
Mean:		512.4	512.4	0.0	0.0
Median:		612.0	612.0	0.0	0.0
Min:		101.4	101.4	0.0	0.0
Max:		905.9	905.9	0.0	0.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### San Joaquin River at Airport Way Bridge (Vernalis) Salinity

March					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	285.7	285.7	0.0	0.0
1976	C	829.5	829.5	0.0	0.0
1977	C	1006.5	1006.5	0.0	0.0
1978	AN	284.7	284.7	0.0	0.0
1979	BN	284.2	284.2	0.0	0.0
1980	AN	217.5	217.5	0.0	0.0
1981	D	504.0	504.0	0.0	0.0
1982	W	218.9	218.9	0.0	0.0
1983	W	131.8	131.8	0.0	0.0
1984	W	375.9	375.9	0.0	0.0
1985	D	738.7	738.7	0.0	0.0
1986	W	163.6	163.6	0.0	0.0
1987	D	776.7	776.7	0.0	0.0
1988	C	1006.9	1006.9	0.0	0.0
1989	D	824.4	824.4	0.0	0.0
1990	C	930.8	930.8	0.0	0.0
1991	C	600.6	600.6	0.0	0.0
Mean:		540.0	540.0	0.0	0.0
Median:		504.0	504.0	0.0	0.0
Min:		131.8	131.8	0.0	0.0
Max:		1006.9	1006.9	0.0	0.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**San Joaquin River at Airport Way Bridge (Vernalis) Salinity**

<b>April</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>EC (umhos/cm)</b>	<b>EC (umhos/cm)</b>		
1975	W	301.1	301.1	0.0	0.0
1976	C	587.7	587.7	0.0	0.0
1977	C	685.3	685.3	0.0	0.0
1978	AN	212.1	212.1	0.0	0.0
1979	BN	300.8	300.8	0.0	0.0
1980	AN	268.7	268.7	0.0	0.0
1981	D	427.7	427.7	0.0	0.0
1982	W	154.1	154.1	0.0	0.0
1983	W	169.2	169.2	0.0	0.0
1984	W	386.4	386.4	0.0	0.0
1985	D	536.6	536.6	0.0	0.0
1986	W	225.0	225.0	0.0	0.0
1987	D	584.8	584.8	0.0	0.0
1988	C	649.0	649.0	0.0	0.0
1989	D	604.7	604.7	0.0	0.0
1990	C	614.5	614.5	0.0	0.0
1991	C	472.5	472.5	0.0	0.0
	Mean:	422.4	422.4	0.0	0.0
	Median:	427.7	427.7	0.0	0.0
	Min:	154.1	154.1	0.0	0.0
	Max:	685.3	685.3	0.0	0.0
	# Years Rel Diff <= -10%				0
	# Years Rel Diff >= 10%				0

### San Joaquin River at Airport Way Bridge (Vernalis) Salinity

May					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	333.7	333.7	0.0	0.0
1976	C	564.1	564.1	0.0	0.0
1977	C	633.1	633.1	0.0	0.0
1978	AN	219.8	219.8	0.0	0.0
1979	BN	337.7	337.7	0.0	0.0
1980	AN	300.9	300.9	0.0	0.0
1981	D	446.8	446.8	0.0	0.0
1982	W	185.6	185.6	0.0	0.0
1983	W	166.2	166.2	0.0	0.0
1984	W	398.5	398.5	0.0	0.0
1985	D	421.6	421.6	0.0	0.0
1986	W	285.5	285.5	0.0	0.0
1987	D	574.3	574.3	0.0	0.0
1988	C	660.4	660.4	0.0	0.0
1989	D	624.9	624.9	0.0	0.0
1990	C	619.3	619.3	0.0	0.0
1991	C	509.9	509.9	0.0	0.0
Mean:		428.4	428.4	0.0	0.0
Median:		421.6	421.6	0.0	0.0
Min:		166.2	166.2	0.0	0.0
Max:		660.4	660.4	0.0	0.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### San Joaquin River at Airport Way Bridge (Vernalis) Salinity

June					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	402.7	402.7	0.0	0.0
1976	C	684.2	684.2	0.0	0.0
1977	C	658.6	658.6	0.0	0.0
1978	AN	227.6	227.6	0.0	0.0
1979	BN	623.5	623.5	0.0	0.0
1980	AN	341.1	341.1	0.0	0.0
1981	D	696.9	696.9	0.0	0.0
1982	W	267.7	267.7	0.0	0.0
1983	W	125.4	125.4	0.0	0.0
1984	W	607.5	607.5	0.0	0.0
1985	D	698.0	698.0	0.0	0.0
1986	W	339.6	339.6	0.0	0.0
1987	D	684.5	684.5	0.0	0.0
1988	C	672.8	672.8	0.0	0.0
1989	D	676.9	676.9	0.0	0.0
1990	C	676.7	676.7	0.0	0.0
1991	C	697.4	697.4	0.0	0.0
Mean:		534.2	534.2	0.0	0.0
Median:		658.6	658.6	0.0	0.0
Min:		125.4	125.4	0.0	0.0
Max:		698.0	698.0	0.0	0.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**San Joaquin River at Airport Way Bridge (Vernalis) Salinity**

July					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	629.1	629.1	0.0	0.0
1976	C	669.6	669.6	0.0	0.0
1977	C	931.4	931.4	0.0	0.0
1978	AN	609.1	609.1	0.0	0.0
1979	BN	704.8	704.8	0.0	0.0
1980	AN	442.5	442.5	0.0	0.0
1981	D	675.2	675.2	0.0	0.0
1982	W	514.7	514.7	0.0	0.0
1983	W	184.9	184.9	0.0	0.0
1984	W	704.1	704.1	0.0	0.0
1985	D	657.0	657.0	0.0	0.0
1986	W	657.0	657.0	0.0	0.0
1987	D	656.3	656.3	0.0	0.0
1988	C	808.6	808.6	0.0	0.0
1989	D	669.4	669.4	0.0	0.0
1990	C	710.4	710.4	0.0	0.0
1991	C	686.5	686.5	0.0	0.0
Mean:		641.8	641.8	0.0	0.0
Median:		669.4	669.4	0.0	0.0
Min:		184.9	184.9	0.0	0.0
Max:		931.4	931.4	0.0	0.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### San Joaquin River at Airport Way Bridge (Vernalis) Salinity

August					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	674.2	674.2	0.0	0.0
1976	C	667.9	667.9	0.0	0.0
1977	C	1094.1	1094.1	0.0	0.0
1978	AN	704.1	704.1	0.0	0.0
1979	BN	701.6	701.6	0.0	0.0
1980	AN	637.0	637.0	0.0	0.0
1981	D	677.5	677.5	0.0	0.0
1982	W	703.1	703.1	0.0	0.0
1983	W	693.4	693.4	0.0	0.0
1984	W	701.4	701.4	0.0	0.0
1985	D	667.7	667.7	0.0	0.0
1986	W	694.9	694.9	0.0	0.0
1987	D	759.2	759.2	0.0	0.0
1988	C	1105.1	1105.1	0.0	0.0
1989	D	971.4	971.4	0.0	0.0
1990	C	961.6	961.6	0.0	0.0
1991	C	765.1	765.1	0.0	0.0
Mean:		775.3	775.3	0.0	0.0
Median:		701.6	701.6	0.0	0.0
Min:		637.0	637.0	0.0	0.0
Max:		1105.1	1105.1	0.0	0.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### San Joaquin River at Airport Way Bridge (Vernalis) Salinity

September					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	862.2	862.2	0.0	0.0
1976	C	1215.9	1215.9	0.0	0.0
1977	C	1188.5	1188.5	0.0	0.0
1978	AN	728.2	728.2	0.0	0.0
1979	BN	895.7	895.7	0.0	0.0
1980	AN	672.4	672.4	0.0	0.0
1981	D	1007.7	1007.7	0.0	0.0
1982	W	565.1	565.1	0.0	0.0
1983	W	405.1	405.1	0.0	0.0
1984	W	967.0	967.0	0.0	0.0
1985	D	1008.6	1008.6	0.0	0.0
1986	W	885.2	885.2	0.0	0.0
1987	D	1226.8	1226.8	0.0	0.0
1988	C	1221.4	1221.4	0.0	0.0
1989	D	1132.2	1132.2	0.0	0.0
1990	C	1124.9	1124.9	0.0	0.0
1991	C	1012.7	1012.7	0.0	0.0
Mean:		948.2	948.2	0.0	0.0
Median:		1007.7	1007.7	0.0	0.0
Min:		405.1	405.1	0.0	0.0
Max:		1226.8	1226.8	0.0	0.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0



Long-term and Water Year Type Average Salinity at the San Joaquin River at Brandt Bridge under CEQA Existing Condition and CEQA No Project Alternative Conditions

Analysis Period	EC (umhos/cm)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Long-term</b>												
<b>Full Simulation Period<sup>2</sup></b>												
CEQA Existing Condition	592	650	572	506	512	547	437	434	536	638	757	935
CEQA No Project Alternative	592	650	572	506	512	547	437	434	536	638	757	935
Difference	0.0	0.0	0.1	-0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Percent Difference <sup>3</sup>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Water Year Types<sup>1</sup></b>												
<b>Wet</b>												
CEQA Existing Condition	498	546	457	349	206	239	249	277	351	536	689	737
CEQA No Project Alternative	498	546	457	349	206	239	249	277	351	536	689	737
Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Percent Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Above Normal</b>												
CEQA Existing Condition	730	721	621	250	177	255	243	264	289	525	667	704
CEQA No Project Alternative	730	721	621	250	177	255	243	264	289	525	667	704
Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Percent Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Below Normal</b>												
CEQA Existing Condition	379	704	603	323	216	285	303	341	622	704	700	887
CEQA No Project Alternative	379	704	603	323	216	285	303	341	622	704	700	887
Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Percent Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Dry</b>												
CEQA Existing Condition	589	689	602	632	718	720	558	526	688	670	749	1,070
CEQA No Project Alternative	589	689	602	632	718	720	558	526	688	670	750	1,070
Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
Percent Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Critical</b>												
CEQA Existing Condition	677	683	637	701	845	887	632	605	681	748	877	1,127
CEQA No Project Alternative	677	683	637	700	845	887	632	605	681	748	877	1,127
Difference	0.0	0.0	0.3	-0.6	-0.1	0.0	0.0	0.0	0.0	-0.1	0.1	0.0
Percent Difference	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

1 As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB 1995)

2 Based on the 17-year simulation period

3 Relative difference of the monthly average

### San Joaquin River at Brandt Bridge Salinity

October					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	466.9	466.9	0.0	0.0
1976	C	441.2	441.2	0.0	0.0
1977	C	523.9	523.9	0.0	0.0
1978	AN	784.7	784.7	0.0	0.0
1979	BN	379.4	379.4	0.0	0.0
1980	AN	674.9	674.9	0.0	0.0
1981	D	359.3	359.3	0.0	0.0
1982	W	812.8	812.8	0.0	0.0
1983	W	200.6	200.6	0.0	0.0
1984	W	203.1	203.1	0.0	0.0
1985	D	695.8	695.8	0.0	0.0
1986	W	808.2	808.2	0.0	0.0
1987	D	488.3	488.3	0.0	0.0
1988	C	812.1	812.1	0.0	0.0
1989	D	813.4	813.4	0.0	0.0
1990	C	810.7	810.7	0.0	0.0
1991	C	796.5	796.5	0.0	0.0
Mean:		592.5	592.5	0.0	0.0
Median:		674.9	674.9	0.0	0.0
Min:		200.6	200.6	0.0	0.0
Max:		813.4	813.4	0.0	0.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### San Joaquin River at Brandt Bridge Salinity

November					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	686.3	686.3	0.0	0.0
1976	C	664.7	664.7	0.0	0.0
1977	C	554.7	554.7	0.0	0.0
1978	AN	780.7	780.7	0.0	0.0
1979	BN	704.2	704.2	0.0	0.0
1980	AN	660.7	660.7	0.0	0.0
1981	D	679.9	679.9	0.0	0.0
1982	W	809.5	809.5	0.0	0.0
1983	W	257.2	257.2	0.0	0.0
1984	W	168.8	168.8	0.0	0.0
1985	D	666.1	666.1	0.0	0.0
1986	W	807.8	807.8	0.0	0.0
1987	D	674.1	674.1	0.0	0.0
1988	C	766.6	766.6	0.0	0.0
1989	D	737.2	737.2	0.0	0.0
1990	C	724.8	724.8	0.0	0.0
1991	C	702.1	702.1	0.0	0.0
Mean:		649.7	649.7	0.0	0.0
Median:		686.3	686.3	0.0	0.0
Min:		168.8	168.8	0.0	0.0
Max:		809.5	809.5	0.0	0.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### San Joaquin River at Brandt Bridge Salinity

December					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	594.7	594.7	0.0	0.0
1976	C	583.3	583.3	0.0	0.0
1977	C	585.0	585.0	0.0	0.0
1978	AN	667.4	667.4	0.0	0.0
1979	BN	602.9	602.9	0.0	0.0
1980	AN	574.2	574.2	0.0	0.0
1981	D	595.1	595.1	0.0	0.0
1982	W	739.2	739.2	0.0	0.0
1983	W	121.7	121.7	0.0	0.0
1984	W	115.1	115.1	0.0	0.0
1985	D	593.6	593.6	0.0	0.0
1986	W	716.3	716.3	0.0	0.0
1987	D	605.0	605.0	0.0	0.0
1988	C	719.3	719.2	-0.1	0.0
1989	D	615.1	615.1	0.0	0.0
1990	C	673.6	675.0	1.4	0.2
1991	C	622.5	622.5	0.0	0.0
Mean:		572.0	572.1	0.1	0.0
Median:		602.9	602.9	0.0	0.0
Min:		115.1	115.1	-0.1	0.0
Max:		739.2	739.2	1.4	0.2
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**San Joaquin River at Brandt Bridge Salinity**

<b>January</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>EC (umhos/cm)</b>	<b>EC (umhos/cm)</b>		
1975	W	615.7	615.7	0.0	0.0
1976	C	637.8	637.8	0.0	0.0
1977	C	715.9	715.9	0.0	0.0
1978	AN	355.5	355.5	0.0	0.0
1979	BN	322.5	322.5	0.0	0.0
1980	AN	144.1	144.1	0.0	0.0
1981	D	561.8	561.8	0.0	0.0
1982	W	259.1	259.1	0.0	0.0
1983	W	113.5	113.5	0.0	0.0
1984	W	137.7	137.7	0.0	0.0
1985	D	638.3	638.3	0.0	0.0
1986	W	620.4	620.4	0.0	0.0
1987	D	646.0	646.0	0.0	0.0
1988	C	727.1	727.1	0.0	0.0
1989	D	683.9	683.9	0.0	0.0
1990	C	729.1	726.1	-2.9	-0.4
1991	C	693.6	693.6	0.0	0.0
Mean:		506.0	505.8	-0.2	0.0
Median:		620.4	620.4	0.0	0.0
Min:		113.5	113.5	-2.9	-0.4
Max:		729.1	727.1	0.0	0.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### San Joaquin River at Brandt Bridge Salinity

February					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	342.4	342.4	0.0	0.0
1976	C	739.5	739.5	0.0	0.0
1977	C	894.0	894.0	0.0	0.0
1978	AN	237.5	237.5	0.0	0.0
1979	BN	215.9	215.9	0.0	0.0
1980	AN	116.7	116.7	0.0	0.0
1981	D	613.5	613.5	0.0	0.0
1982	W	178.2	178.2	0.0	0.0
1983	W	104.9	104.9	0.0	0.0
1984	W	228.9	228.9	0.0	0.0
1985	D	713.1	713.1	0.0	0.0
1986	W	175.3	175.3	0.0	0.0
1987	D	729.8	729.8	0.0	0.0
1988	C	879.1	879.1	0.0	0.0
1989	D	816.9	816.9	0.0	0.0
1990	C	843.8	843.4	-0.5	-0.1
1991	C	869.6	869.6	0.0	0.0
Mean:		511.7	511.7	0.0	0.0
Median:		613.5	613.5	0.0	0.0
Min:		104.9	104.9	-0.5	-0.1
Max:		894.0	894.0	0.0	0.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### San Joaquin River at Brandt Bridge Salinity

March					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	287.5	287.5	0.0	0.0
1976	C	843.5	843.5	0.0	0.0
1977	C	1013.9	1013.9	0.0	0.0
1978	AN	293.3	293.3	0.0	0.0
1979	BN	285.2	285.2	0.0	0.0
1980	AN	216.5	216.5	0.0	0.0
1981	D	510.7	510.7	0.0	0.0
1982	W	224.8	224.8	0.0	0.0
1983	W	137.8	137.8	0.0	0.0
1984	W	375.7	375.7	0.0	0.0
1985	D	743.5	743.5	0.0	0.0
1986	W	166.9	166.9	0.0	0.0
1987	D	788.1	788.1	0.0	0.0
1988	C	1009.9	1009.9	0.0	0.0
1989	D	837.4	837.3	0.0	0.0
1990	C	939.1	939.1	0.0	0.0
1991	C	628.3	628.3	0.0	0.0
Mean:		547.2	547.2	0.0	0.0
Median:		510.7	510.7	0.0	0.0
Min:		137.8	137.8	0.0	0.0
Max:		1013.9	1013.9	0.0	0.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**San Joaquin River at Brandt Bridge Salinity**

<b>April</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>EC (umhos/cm)</b>	<b>EC (umhos/cm)</b>		
1975	W	303.4	303.4	0.0	0.0
1976	C	609.1	609.1	0.0	0.0
1977	C	722.0	722.0	0.0	0.0
1978	AN	214.6	214.6	0.0	0.0
1979	BN	303.1	303.1	0.0	0.0
1980	AN	271.2	271.2	0.0	0.0
1981	D	435.8	435.8	0.0	0.0
1982	W	155.4	155.4	0.0	0.0
1983	W	169.7	169.7	0.0	0.0
1984	W	391.9	391.9	0.0	0.0
1985	D	553.1	553.1	0.0	0.0
1986	W	225.2	225.2	0.0	0.0
1987	D	607.4	607.4	0.0	0.0
1988	C	683.7	683.7	0.0	0.0
1989	D	635.7	635.7	0.0	0.0
1990	C	654.0	654.0	0.0	0.0
1991	C	490.6	490.6	0.0	0.0
Mean:		436.8	436.8	0.0	0.0
Median:		435.8	435.8	0.0	0.0
Min:		155.4	155.4	0.0	0.0
Max:		722.0	722.0	0.0	0.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0



### San Joaquin River at Brandt Bridge Salinity

May					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	338.7	338.7	0.0	0.0
1976	C	574.0	574.0	0.0	0.0
1977	C	640.5	640.5	0.0	0.0
1978	AN	223.3	223.3	0.0	0.0
1979	BN	340.7	340.7	0.0	0.0
1980	AN	305.2	305.2	0.0	0.0
1981	D	452.0	452.0	0.0	0.0
1982	W	187.5	187.5	0.0	0.0
1983	W	168.3	168.3	0.0	0.0
1984	W	403.0	403.0	0.0	0.0
1985	D	431.3	431.3	0.0	0.0
1986	W	288.9	288.9	0.0	0.0
1987	D	583.1	583.1	0.0	0.0
1988	C	667.4	667.4	0.0	0.0
1989	D	635.6	635.6	0.0	0.0
1990	C	624.0	623.9	0.0	0.0
1991	C	519.3	519.3	0.0	0.0
Mean:		434.3	434.3	0.0	0.0
Median:		431.3	431.3	0.0	0.0
Min:		168.3	168.3	0.0	0.0
Max:		667.4	667.4	0.0	0.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### San Joaquin River at Brandt Bridge Salinity

June					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	407.8	407.8	0.0	0.0
1976	C	685.9	685.9	0.0	0.0
1977	C	663.8	663.8	0.0	0.0
1978	AN	230.1	230.1	0.0	0.0
1979	BN	622.4	622.4	0.0	0.0
1980	AN	347.2	347.2	0.0	0.0
1981	D	692.5	692.5	0.0	0.0
1982	W	269.5	269.5	0.0	0.0
1983	W	127.7	127.7	0.0	0.0
1984	W	607.0	607.0	0.0	0.0
1985	D	692.5	692.5	0.0	0.0
1986	W	343.2	343.2	0.0	0.0
1987	D	686.6	686.6	0.0	0.0
1988	C	679.2	679.2	0.0	0.0
1989	D	682.3	682.3	0.0	0.0
1990	C	682.7	682.7	0.0	0.0
1991	C	693.3	693.2	-0.1	0.0
Mean:		536.1	536.1	0.0	0.0
Median:		663.8	663.8	0.0	0.0
Min:		127.7	127.7	-0.1	0.0
Max:		693.3	693.2	0.0	0.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### San Joaquin River at Brandt Bridge Salinity

July					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	626.8	626.8	0.0	0.0
1976	C	676.5	676.5	0.0	0.0
1977	C	876.2	876.0	-0.2	0.0
1978	AN	605.0	605.0	0.0	0.0
1979	BN	703.9	703.9	0.0	0.0
1980	AN	445.3	445.3	0.0	0.0
1981	D	681.1	681.1	0.0	0.0
1982	W	513.8	513.8	0.0	0.0
1983	W	184.1	184.1	0.0	0.0
1984	W	702.3	702.3	0.0	0.0
1985	D	664.8	664.8	0.0	0.0
1986	W	651.6	651.6	0.0	0.0
1987	D	662.6	662.6	0.0	0.0
1988	C	785.4	785.4	-0.1	0.0
1989	D	672.9	672.9	0.0	0.0
1990	C	708.2	708.2	0.0	0.0
1991	C	692.8	692.8	0.0	0.0
Mean:		638.4	638.4	0.0	0.0
Median:		672.9	672.9	0.0	0.0
Min:		184.1	184.1	-0.2	0.0
Max:		876.2	876.0	0.0	0.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### San Joaquin River at Brandt Bridge Salinity

August					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	671.9	671.9	0.0	0.0
1976	C	663.0	663.1	0.0	0.0
1977	C	1035.6	1035.5	-0.1	0.0
1978	AN	700.9	700.9	0.0	0.0
1979	BN	700.3	700.3	0.0	0.0
1980	AN	632.7	632.7	0.0	0.0
1981	D	675.2	675.2	0.0	0.0
1982	W	698.8	698.8	0.0	0.0
1983	W	685.1	685.1	0.0	0.0
1984	W	699.1	699.1	0.0	0.0
1985	D	665.2	665.2	0.0	0.0
1986	W	692.4	692.4	0.0	0.0
1987	D	744.1	744.1	0.0	0.0
1988	C	1031.0	1030.9	-0.1	0.0
1989	D	913.2	913.5	0.3	0.0
1990	C	906.1	906.5	0.5	0.1
1991	C	749.3	749.5	0.1	0.0
Mean:		756.7	756.7	0.0	0.0
Median:		699.1	699.1	0.0	0.0
Min:		632.7	632.7	-0.1	0.0
Max:		1035.6	1035.5	0.5	0.1
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### San Joaquin River at Brandt Bridge Salinity

#### September

Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	858.1	858.1	0.0	0.0
1976	C	1181.7	1181.7	0.0	0.0
1977	C	1171.9	1171.9	0.0	0.0
1978	AN	731.9	731.9	0.0	0.0
1979	BN	887.4	887.4	0.0	0.0
1980	AN	676.2	676.2	0.0	0.0
1981	D	987.8	987.8	0.0	0.0
1982	W	573.3	573.3	0.0	0.0
1983	W	415.8	415.8	0.0	0.0
1984	W	954.7	954.7	0.0	0.0
1985	D	989.3	989.3	0.0	0.0
1986	W	880.8	880.8	0.0	0.0
1987	D	1184.6	1184.6	0.0	0.0
1988	C	1198.0	1197.9	-0.1	0.0
1989	D	1119.4	1119.4	0.0	0.0
1990	C	1102.1	1102.2	0.1	0.0
1991	C	983.2	983.3	0.1	0.0
Mean:		935.1	935.1	0.0	0.0
Median:		983.2	983.3	0.0	0.0
Min:		415.8	415.8	-0.1	0.0
Max:		1198.0	1197.9	0.1	0.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Long-term and Water Year Type Average Salinity at the Middle River near old River under CEQA Existing Condition and CEQA No Project Alternative Conditions

Analysis Period	EC (umhos/cm)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Long-term</b>												
<b>Full Simulation Period<sup>2</sup></b>												
CEQA Existing Condition	523	536	567	505	514	547	430	419	537	639	755	933
CEQA No Project Alternative	526	537	567	505	514	547	430	419	537	639	755	933
Difference	2.9	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Percent Difference <sup>3</sup>	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Water Year Types<sup>1</sup></b>												
<b>Wet</b>												
CEQA Existing Condition	369	385	455	349	207	239	261	301	352	536	687	737
CEQA No Project Alternative	370	386	455	349	207	239	261	301	352	536	687	737
Difference	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Percent Difference	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Above Normal</b>												
CEQA Existing Condition	660	673	613	249	178	256	262	305	290	526	667	705
CEQA No Project Alternative	668	678	613	249	178	256	262	305	290	526	667	705
Difference	8.7	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Percent Difference	1.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Below Normal</b>												
CEQA Existing Condition	473	481	600	323	217	286	345	412	624	704	700	887
CEQA No Project Alternative	481	484	600	323	217	286	345	412	624	704	700	887
Difference	8.3	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Percent Difference	1.8	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Dry</b>												
CEQA Existing Condition	554	585	599	634	722	719	529	483	690	671	751	1,069
CEQA No Project Alternative	555	585	599	634	722	719	530	484	690	671	751	1,069
Difference	1.1	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.0	0.0	0.0	0.0
Percent Difference	0.2	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0
<b>Critical</b>												
CEQA Existing Condition	607	603	630	695	851	886	604	534	682	749	871	1,122
CEQA No Project Alternative	610	605	630	695	851	886	603	533	682	749	871	1,122
Difference	3.3	2.3	0.0	0.0	0.0	0.0	-0.3	-0.5	0.0	0.0	0.1	0.0
Percent Difference	0.5	0.4	0.0	0.0	0.0	0.0	-0.1	-0.1	0.0	0.0	0.0	0.0

1 As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB 1995)

2 Based on the 17-year simulation period

3 Relative difference of the monthly average

### Middle River near Old River Salinity

October					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	205.2	205.1	0.0	0.0
1976	C	434.2	434.5	0.3	0.1
1977	C	655.1	652.3	-2.8	-0.4
1978	AN	731.2	727.4	-3.8	-0.5
1979	BN	472.5	480.8	8.3	1.8
1980	AN	588.2	609.3	21.1	3.6
1981	D	443.6	444.6	1.1	0.2
1982	W	622.8	625.0	2.2	0.4
1983	W	200.4	200.4	0.0	0.0
1984	W	203.2	203.2	0.0	0.0
1985	D	578.9	580.3	1.4	0.2
1986	W	614.9	615.6	0.7	0.1
1987	D	504.3	510.9	6.6	1.3
1988	C	680.5	683.6	3.1	0.5
1989	D	689.8	685.1	-4.8	-0.7
1990	C	615.2	619.4	4.2	0.7
1991	C	649.8	661.4	11.7	1.8
Mean:		522.9	525.8	2.9	0.5
Median:		588.2	609.3	1.1	0.2
Min:		200.4	200.4	-4.8	-0.7
Max:		731.2	727.4	21.1	3.6
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### Middle River near Old River Salinity

November					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	403.5	403.7	0.2	0.0
1976	C	388.2	388.0	-0.2	-0.1
1977	C	594.3	592.5	-1.9	-0.3
1978	AN	812.3	809.0	-3.3	-0.4
1979	BN	481.3	483.5	2.2	0.5
1980	AN	533.6	546.8	13.1	2.5
1981	D	478.6	479.3	0.7	0.1
1982	W	520.6	520.8	0.2	0.0
1983	W	257.3	257.3	0.0	0.0
1984	W	169.0	169.0	0.0	0.0
1985	D	586.4	585.0	-1.4	-0.2
1986	W	576.4	577.6	1.1	0.2
1987	D	520.9	525.5	4.5	0.9
1988	C	656.9	658.6	1.7	0.3
1989	D	755.1	751.4	-3.7	-0.5
1990	C	600.9	601.7	0.8	0.1
1991	C	772.4	783.3	10.9	1.4
Mean:		535.8	537.2	1.5	0.3
Median:		533.6	546.8	0.2	0.0
Min:		169.0	169.0	-3.7	-0.5
Max:		812.3	809.0	13.1	2.5
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0



### Middle River near Old River Salinity

December					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	591.2	591.2	0.0	0.0
1976	C	580.7	580.7	0.0	0.0
1977	C	586.5	586.5	0.0	0.0
1978	AN	657.9	657.9	0.0	0.0
1979	BN	600.0	600.0	0.0	0.0
1980	AN	568.5	568.5	0.0	0.0
1981	D	591.8	591.8	0.0	0.0
1982	W	732.0	732.0	0.0	0.0
1983	W	121.8	121.8	0.0	0.0
1984	W	115.3	115.3	0.0	0.0
1985	D	591.1	591.1	0.0	0.0
1986	W	712.3	712.3	0.0	0.0
1987	D	602.9	602.9	0.0	0.0
1988	C	699.1	699.1	0.0	0.0
1989	D	610.9	610.9	0.0	0.0
1990	C	660.2	660.2	0.0	0.0
1991	C	621.1	621.1	0.0	0.0
Mean:		567.2	567.2	0.0	0.0
Median:		600.0	600.0	0.0	0.0
Min:		115.3	115.3	0.0	0.0
Max:		732.0	732.0	0.0	0.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**Middle River near Old River Salinity**

**January**

Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	616.4	616.4	0.0	0.0
1976	C	639.4	639.4	0.0	0.0
1977	C	721.2	721.2	0.0	0.0
1978	AN	353.7	353.7	0.0	0.0
1979	BN	323.3	323.3	0.0	0.0
1980	AN	144.4	144.4	0.0	0.0
1981	D	560.7	560.7	0.0	0.0
1982	W	260.1	260.1	0.0	0.0
1983	W	114.3	114.3	0.0	0.0
1984	W	138.7	138.7	0.0	0.0
1985	D	638.7	638.7	0.0	0.0
1986	W	616.4	616.4	0.0	0.0
1987	D	647.6	647.6	0.0	0.0
1988	C	713.7	713.7	0.0	0.0
1989	D	687.3	687.2	0.0	0.0
1990	C	703.0	702.9	-0.1	0.0
1991	C	697.7	697.7	0.0	0.0
Mean:		504.5	504.5	0.0	0.0
Median:		616.4	616.4	0.0	0.0
Min:		114.3	114.3	-0.1	0.0
Max:		721.2	721.2	0.0	0.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**Middle River near Old River Salinity**

<b>February</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>EC (umhos/cm)</b>	<b>EC (umhos/cm)</b>		
1975	W	342.7	342.7	0.0	0.0
1976	C	742.6	742.6	0.0	0.0
1977	C	900.3	900.3	0.0	0.0
1978	AN	238.7	238.7	0.0	0.0
1979	BN	216.9	216.9	0.0	0.0
1980	AN	117.6	117.6	0.0	0.0
1981	D	615.2	615.2	0.0	0.0
1982	W	179.0	179.0	0.0	0.0
1983	W	105.6	105.6	0.0	0.0
1984	W	230.0	230.0	0.0	0.0
1985	D	715.4	715.4	0.0	0.0
1986	W	176.1	176.1	0.0	0.0
1987	D	732.9	732.9	0.0	0.0
1988	C	885.7	885.7	0.0	0.0
1989	D	822.5	822.5	0.0	0.0
1990	C	848.8	848.8	0.0	0.0
1991	C	875.6	875.6	0.0	0.0
Mean:		514.5	514.5	0.0	0.0
Median:		615.2	615.2	0.0	0.0
Min:		105.6	105.6	0.0	0.0
Max:		900.3	900.3	0.0	0.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### Middle River near Old River Salinity

March					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	288.4	288.4	0.0	0.0
1976	C	844.1	844.1	0.0	0.0
1977	C	1016.0	1016.0	0.0	0.0
1978	AN	294.9	294.9	0.0	0.0
1979	BN	286.4	286.4	0.0	0.0
1980	AN	217.2	217.2	0.0	0.0
1981	D	510.8	510.8	0.0	0.0
1982	W	226.1	226.1	0.0	0.0
1983	W	138.3	138.3	0.0	0.0
1984	W	377.1	377.1	0.0	0.0
1985	D	744.3	744.3	0.0	0.0
1986	W	167.5	167.5	0.0	0.0
1987	D	787.9	788.0	0.0	0.0
1988	C	1012.1	1012.1	0.0	0.0
1989	D	831.3	831.3	0.0	0.0
1990	C	939.9	939.9	0.0	0.0
1991	C	618.8	618.8	0.0	0.0
Mean:		547.1	547.1	0.0	0.0
Median:		510.8	510.8	0.0	0.0
Min:		138.3	138.3	0.0	0.0
Max:		1016.0	1016.0	0.0	0.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### Middle River near Old River Salinity

April					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	333.0	333.0	0.0	0.0
1976	C	575.6	575.3	-0.3	-0.1
1977	C	718.3	718.1	-0.2	0.0
1978	AN	215.0	215.0	0.0	0.0
1979	BN	345.3	345.3	0.0	0.0
1980	AN	309.8	309.8	0.0	0.0
1981	D	459.2	459.8	0.6	0.1
1982	W	155.6	155.6	0.0	0.0
1983	W	170.1	170.1	0.0	0.0
1984	W	422.1	422.3	0.1	0.0
1985	D	558.4	559.0	0.6	0.1
1986	W	225.7	225.7	0.0	0.0
1987	D	575.6	576.3	0.6	0.1
1988	C	624.2	625.1	0.9	0.1
1989	D	524.3	524.8	0.4	0.1
1990	C	612.8	610.7	-2.1	-0.3
1991	C	487.7	487.8	0.0	0.0
Mean:		430.2	430.2	0.0	0.0
Median:		459.2	459.8	0.0	0.0
Min:		155.6	155.6	-2.1	-0.3
Max:		718.3	718.1	0.9	0.1
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### Middle River near Old River Salinity

May					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	401.8	401.8	0.0	0.0
1976	C	511.9	511.3	-0.6	-0.1
1977	C	626.9	627.5	0.5	0.1
1978	AN	223.7	223.7	0.0	0.0
1979	BN	412.4	412.4	0.0	0.0
1980	AN	386.2	386.2	0.0	0.0
1981	D	488.6	488.9	0.4	0.1
1982	W	187.8	187.8	0.0	0.0
1983	W	168.5	168.5	0.0	0.0
1984	W	456.3	456.3	0.0	0.0
1985	D	524.1	524.8	0.8	0.2
1986	W	289.5	289.5	0.0	0.0
1987	D	483.1	483.8	0.8	0.2
1988	C	540.1	541.5	1.4	0.3
1989	D	438.2	438.6	0.4	0.1
1990	C	504.9	501.2	-3.7	-0.7
1991	C	484.0	484.0	-0.1	0.0
Mean:		419.3	419.3	0.0	0.0
Median:		456.3	456.3	0.0	0.0
Min:		168.5	168.5	-3.7	-0.7
Max:		626.9	627.5	1.4	0.3
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### Middle River near Old River Salinity

June					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	409.3	409.3	0.0	0.0
1976	C	686.7	686.7	0.0	0.0
1977	C	665.6	665.6	-0.1	0.0
1978	AN	230.9	230.9	0.0	0.0
1979	BN	623.7	623.7	0.0	0.0
1980	AN	348.5	348.5	0.0	0.0
1981	D	693.9	693.9	0.0	0.0
1982	W	270.3	270.3	0.0	0.0
1983	W	128.1	128.1	0.0	0.0
1984	W	608.5	608.5	0.0	0.0
1985	D	693.7	693.7	0.0	0.0
1986	W	344.4	344.4	0.0	0.0
1987	D	687.7	687.7	0.0	0.0
1988	C	680.7	680.6	-0.1	0.0
1989	D	683.7	683.7	0.0	0.0
1990	C	684.1	684.1	0.0	0.0
1991	C	694.2	694.2	0.0	0.0
Mean:		537.3	537.3	0.0	0.0
Median:		665.6	665.6	0.0	0.0
Min:		128.1	128.1	-0.1	0.0
Max:		694.2	694.2	0.0	0.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### Middle River near Old River Salinity

July					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	627.3	627.3	0.0	0.0
1976	C	676.7	676.7	0.0	0.0
1977	C	880.3	880.4	0.1	0.0
1978	AN	606.0	606.0	0.0	0.0
1979	BN	704.1	704.1	0.0	0.0
1980	AN	446.5	446.5	0.0	0.0
1981	D	681.1	681.1	0.0	0.0
1982	W	514.9	514.9	0.0	0.0
1983	W	184.7	184.7	0.0	0.0
1984	W	702.9	702.9	0.0	0.0
1985	D	664.9	664.9	0.0	0.0
1986	W	652.5	652.4	0.0	0.0
1987	D	663.0	663.0	0.0	0.0
1988	C	786.7	786.7	0.0	0.0
1989	D	673.2	673.2	0.0	0.0
1990	C	708.8	708.8	0.0	0.0
1991	C	692.9	692.9	0.0	0.0
Mean:		639.2	639.2	0.0	0.0
Median:		673.2	673.2	0.0	0.0
Min:		184.7	184.7	0.0	0.0
Max:		880.3	880.4	0.1	0.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0



### Middle River near Old River Salinity

August					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	672.0	672.0	0.0	0.0
1976	C	663.3	663.3	0.0	0.0
1977	C	1023.6	1024.0	0.4	0.0
1978	AN	701.2	701.2	0.0	0.0
1979	BN	700.3	700.3	0.0	0.0
1980	AN	633.6	633.6	0.0	0.0
1981	D	675.6	675.6	0.0	0.0
1982	W	699.4	699.4	0.0	0.0
1983	W	674.0	673.9	0.0	0.0
1984	W	699.3	699.3	0.0	0.0
1985	D	665.6	665.6	0.0	0.0
1986	W	692.6	692.6	0.0	0.0
1987	D	744.6	744.6	0.0	0.0
1988	C	1012.7	1013.3	0.7	0.1
1989	D	919.4	919.2	-0.2	0.0
1990	C	904.0	903.5	-0.5	-0.1
1991	C	749.7	749.5	-0.2	0.0
Mean:		754.8	754.8	0.0	0.0
Median:		699.4	699.4	0.0	0.0
Min:		633.6	633.6	-0.5	-0.1
Max:		1023.6	1024.0	0.7	0.1
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**Middle River near Old River Salinity**

**September**

Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	858.2	858.2	0.0	0.0
1976	C	1177.0	1177.0	0.0	0.0
1977	C	1164.2	1164.3	0.1	0.0
1978	AN	732.5	732.5	0.0	0.0
1979	BN	886.8	886.8	0.0	0.0
1980	AN	676.8	676.8	0.0	0.0
1981	D	987.0	987.0	0.0	0.0
1982	W	573.2	573.2	0.0	0.0
1983	W	415.5	415.5	0.0	0.0
1984	W	954.5	954.5	0.0	0.0
1985	D	988.3	988.3	0.0	0.0
1986	W	881.2	881.2	0.0	0.0
1987	D	1182.4	1182.4	0.0	0.0
1988	C	1190.1	1190.3	0.2	0.0
1989	D	1117.9	1117.9	0.0	0.0
1990	C	1100.0	1099.8	-0.2	0.0
1991	C	980.1	979.7	-0.4	0.0
Mean:		933.3	933.3	0.0	0.0
Median:		980.1	979.7	0.0	0.0
Min:		415.5	415.5	-0.4	0.0
Max:		1190.1	1190.3	0.2	0.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Long-term and Water Year Type Average Salinity at the Old River at Tracy Road Bridge under CEQA Existing Condition and CEQA No Project Alternative Conditions

Analysis Period	EC (umhos/cm)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Long-term</b>												
<b>Full Simulation Period<sup>2</sup></b>												
CEQA Existing Condition	764.2	617.2	577.0	540.8	531.2	560.9	455.5	380.5	532.4	634.3	718.3	859.9
CEQA No Project Alternative	765.5	619.7	577.2	540.7	531.1	560.8	455.5	380.3	533.1	634.5	718.4	860.0
Difference	1.4	2.5	0.2	-0.1	-0.1	0.0	0.0	-0.2	0.7	0.2	0.0	0.1
Percent Difference <sup>3</sup>	0.2	0.4	0.0	0.0	0.0	0.0	0.0	-0.1	0.1	0.0	0.0	0.0
<b>Water Year Types<sup>1</sup></b>												
<b>Wet</b>												
CEQA Existing Condition	468.0	427.8	458.7	391.7	235.2	256.6	271.1	282.1	355.4	531.9	679.0	719.6
CEQA No Project Alternative	468.1	428.1	458.8	391.7	235.2	256.6	271.1	282.1	355.4	531.8	679.0	719.6
Difference	0.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Percent Difference	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Above Normal</b>												
CEQA Existing Condition	940.3	794.0	632.9	310.4	209.8	275.5	269.2	290.9	296.5	523.6	657.9	706.4
CEQA No Project Alternative	943.2	802.4	633.1	310.5	209.8	275.5	269.4	290.9	296.5	523.7	657.9	706.4
Difference	2.9	8.4	0.2	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
Percent Difference	0.3	1.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
<b>Below Normal</b>												
CEQA Existing Condition	668.9	548.2	603.5	401.8	241.2	294.5	350.0	352.3	615.8	701.7	701.7	850.3
CEQA No Project Alternative	675.6	558.7	605.0	400.6	241.2	294.5	350.0	352.3	615.8	701.7	701.7	850.1
Difference	6.7	10.5	1.5	-1.3	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	-0.2
Percent Difference	1.0	1.9	0.3	-0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Dry</b>												
CEQA Existing Condition	821.9	658.8	611.0	660.6	734.4	733.2	555.5	413.7	680.4	677.0	736.4	944.4
CEQA No Project Alternative	822.7	659.5	610.9	660.4	733.9	733.2	555.7	414.2	680.4	677.0	736.0	944.1
Difference	0.9	0.7	-0.1	-0.1	-0.5	0.0	0.2	0.5	0.0	0.0	-0.4	-0.3
Percent Difference	0.1	0.1	0.0	0.0	-0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0
<b>Critical</b>												
CEQA Existing Condition	962.8	716.4	640.3	714.1	851.1	894.7	655.4	493.7	668.7	733.4	770.7	995.9
CEQA No Project Alternative	964.1	718.4	640.7	714.0	851.1	894.7	655.2	492.6	671.0	734.0	771.1	996.6
Difference	1.3	2.1	0.3	-0.1	0.0	0.0	-0.2	-1.1	2.3	0.6	0.4	0.8
Percent Difference	0.1	0.3	0.1	0.0	0.0	0.0	0.0	-0.2	0.3	0.1	0.1	0.1

1 As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB 1995)

2 Based on the 17-year simulation period

3 Relative difference of the monthly average

### Old River at Tracy Road Bridge Salinity

October					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	81.7	81.7	0.0	0.0
1976	C	764.2	764.4	0.2	0.0
1977	C	1042.9	1044.0	1.1	0.1
1978	AN	1051.1	1049.7	-1.4	-0.1
1979	BN	668.9	675.6	6.7	1.0
1980	AN	829.5	836.7	7.2	0.9
1981	D	622.2	623.2	0.9	0.1
1982	W	916.7	917.5	0.8	0.1
1983	W	223.2	223.2	0.0	0.0
1984	W	212.5	212.5	0.0	0.0
1985	D	881.4	881.6	0.2	0.0
1986	W	905.7	905.4	-0.3	0.0
1987	D	767.2	772.3	5.1	0.7
1988	C	1079.3	1080.0	0.7	0.1
1989	D	1016.6	1013.9	-2.7	-0.3
1990	C	938.2	939.1	0.9	0.1
1991	C	989.5	993.1	3.6	0.4
Mean:		764.2	765.5	1.4	0.2
Median:		881.4	881.6	0.7	0.1
Min:		81.7	81.7	-2.7	-0.3
Max:		1079.3	1080.0	7.2	1.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### Old River at Tracy Road Bridge Salinity

November					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	293.0	293.0	0.0	0.0
1976	C	473.6	473.9	0.3	0.1
1977	C	776.2	773.9	-2.3	-0.3
1978	AN	931.4	928.5	-2.8	-0.3
1979	BN	548.2	558.7	10.5	1.9
1980	AN	656.6	676.2	19.7	3.0
1981	D	505.7	506.9	1.3	0.3
1982	W	687.7	688.6	0.9	0.1
1983	W	283.9	284.0	0.1	0.0
1984	W	174.5	174.5	0.0	0.0
1985	D	700.6	700.9	0.3	0.0
1986	W	699.9	700.6	0.7	0.1
1987	D	581.0	587.0	6.0	1.0
1988	C	772.8	775.0	2.2	0.3
1989	D	847.7	843.2	-4.6	-0.5
1990	C	692.1	695.5	3.4	0.5
1991	C	867.1	873.9	6.7	0.8
Mean:		617.2	619.7	2.5	0.4
Median:		687.7	688.6	0.7	0.1
Min:		174.5	174.5	-4.6	-0.5
Max:		931.4	928.5	19.7	3.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### Old River at Tracy Road Bridge Salinity

December					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	585.8	585.8	0.0	0.0
1976	C	576.8	576.8	0.0	0.0
1977	C	598.8	598.6	-0.1	0.0
1978	AN	682.9	682.2	-0.6	-0.1
1979	BN	603.5	605.0	1.5	0.2
1980	AN	582.9	584.0	1.1	0.2
1981	D	592.8	592.7	-0.1	0.0
1982	W	733.8	733.8	0.0	0.0
1983	W	129.6	129.6	0.0	0.0
1984	W	129.8	129.8	0.0	0.0
1985	D	609.3	609.1	-0.2	0.0
1986	W	714.8	714.8	0.0	0.0
1987	D	605.9	606.2	0.3	0.0
1988	C	709.0	709.1	0.1	0.0
1989	D	635.9	635.6	-0.3	0.0
1990	C	663.3	664.0	0.7	0.1
1991	C	653.8	654.8	1.0	0.2
Mean:		577.0	577.2	0.2	0.0
Median:		605.9	606.2	0.0	0.0
Min:		129.6	129.6	-0.6	-0.1
Max:		733.8	733.8	1.5	0.2
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**Old River at Tracy Road Bridge Salinity**

January					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	637.8	637.8	0.0	0.0
1976	C	656.4	656.4	0.0	0.0
1977	C	734.2	733.9	-0.3	0.0
1978	AN	441.6	441.9	0.2	0.0
1979	BN	401.8	400.5	-1.3	-0.3
1980	AN	179.2	179.1	-0.1	-0.1
1981	D	595.3	594.9	-0.4	-0.1
1982	W	337.3	337.2	-0.1	0.0
1983	W	183.2	183.2	0.0	0.0
1984	W	150.6	150.6	0.0	0.0
1985	D	662.9	662.8	-0.1	0.0
1986	W	649.7	649.7	0.0	0.0
1987	D	672.7	672.8	0.0	0.0
1988	C	740.3	740.3	0.0	0.0
1989	D	711.3	711.2	-0.1	0.0
1990	C	722.8	722.6	-0.2	0.0
1991	C	716.7	716.8	0.1	0.0
Mean:		540.8	540.7	-0.1	0.0
Median:		649.7	649.7	0.0	0.0
Min:		150.6	150.6	-1.3	-0.3
Max:		740.3	740.3	0.2	0.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### Old River at Tracy Road Bridge Salinity

February					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	372.8	372.8	0.0	0.0
1976	C	750.3	750.3	0.0	0.0
1977	C	897.8	897.8	-0.1	0.0
1978	AN	272.2	272.3	0.1	0.0
1979	BN	241.2	241.2	0.0	0.0
1980	AN	147.3	147.3	0.0	0.0
1981	D	633.7	634.1	0.5	0.1
1982	W	190.3	190.3	0.0	0.0
1983	W	125.8	126.0	0.2	0.2
1984	W	241.6	241.6	0.0	0.0
1985	D	728.5	726.2	-2.3	-0.3
1986	W	245.7	245.6	-0.1	0.0
1987	D	750.2	750.1	-0.1	0.0
1988	C	882.6	882.6	0.0	0.0
1989	D	825.2	825.2	0.0	0.0
1990	C	851.4	851.4	0.0	0.0
1991	C	873.3	873.4	0.1	0.0
Mean:		531.2	531.1	-0.1	0.0
Median:		633.7	634.1	0.0	0.0
Min:		125.8	126.0	-2.3	-0.3
Max:		897.8	897.8	0.5	0.2
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0



### Old River at Tracy Road Bridge Salinity

March					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	296.5	296.5	0.0	0.0
1976	C	853.7	853.7	0.0	0.0
1977	C	1018.9	1018.9	0.0	0.0
1978	AN	323.7	323.6	0.0	0.0
1979	BN	294.5	294.5	0.0	0.0
1980	AN	227.3	227.3	0.0	0.0
1981	D	529.0	529.1	0.1	0.0
1982	W	246.6	246.6	0.0	0.0
1983	W	175.9	175.7	-0.1	-0.1
1984	W	387.1	387.1	0.0	0.0
1985	D	755.7	755.4	-0.2	0.0
1986	W	176.9	176.9	0.0	0.0
1987	D	807.6	807.6	0.0	0.0
1988	C	1011.5	1011.5	0.0	0.0
1989	D	840.6	840.6	0.0	0.0
1990	C	946.4	946.4	0.0	0.0
1991	C	642.9	642.9	0.0	0.0
Mean:		560.9	560.8	0.0	0.0
Median:		529.0	529.1	0.0	0.0
Min:		175.9	175.7	-0.2	-0.1
Max:		1018.9	1018.9	0.1	0.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### Old River at Tracy Road Bridge Salinity

April					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	352.5	352.5	0.0	0.0
1976	C	634.2	634.1	-0.1	0.0
1977	C	741.2	741.0	-0.2	0.0
1978	AN	224.2	224.2	0.0	0.0
1979	BN	350.0	350.0	0.0	0.0
1980	AN	314.3	314.5	0.3	0.1
1981	D	467.6	467.8	0.2	0.0
1982	W	158.1	158.1	0.0	0.0
1983	W	178.2	178.1	-0.1	-0.1
1984	W	430.9	430.9	0.0	0.0
1985	D	574.9	575.1	0.2	0.0
1986	W	235.6	235.6	0.0	0.0
1987	D	594.7	595.0	0.2	0.0
1988	C	711.5	711.7	0.2	0.0
1989	D	584.7	584.9	0.2	0.0
1990	C	669.2	668.1	-1.1	-0.2
1991	C	520.9	520.9	0.0	0.0
Mean:		455.5	455.5	0.0	0.0
Median:		467.6	467.8	0.0	0.0
Min:		158.1	158.1	-1.1	-0.2
Max:		741.2	741.0	0.3	0.1
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### Old River at Tracy Road Bridge Salinity

May					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	352.2	352.2	0.0	0.0
1976	C	481.8	480.7	-1.1	-0.2
1977	C	604.0	603.8	-0.2	0.0
1978	AN	239.9	239.9	0.0	0.0
1979	BN	352.3	352.3	-0.1	0.0
1980	AN	341.8	341.8	0.0	0.0
1981	D	412.8	413.1	0.3	0.1
1982	W	192.3	192.2	-0.1	-0.1
1983	W	172.0	172.0	0.0	0.0
1984	W	388.8	388.8	0.0	0.0
1985	D	452.5	453.3	0.7	0.2
1986	W	305.2	305.2	0.0	0.0
1987	D	432.1	432.9	0.7	0.2
1988	C	474.7	475.6	0.9	0.2
1989	D	357.2	357.6	0.4	0.1
1990	C	491.7	486.8	-4.9	-1.0
1991	C	416.4	416.3	-0.1	0.0
Mean:		380.5	380.3	-0.2	0.0
Median:		388.8	388.8	0.0	0.0
Min:		172.0	172.0	-4.9	-1.0
Max:		604.0	603.8	0.9	0.2
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### Old River at Tracy Road Bridge Salinity

June					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	418.5	418.5	0.0	0.0
1976	C	684.9	684.8	-0.1	0.0
1977	C	667.9	668.5	0.6	0.1
1978	AN	235.4	235.4	0.0	0.0
1979	BN	615.8	615.8	0.0	0.0
1980	AN	357.6	357.6	0.0	0.0
1981	D	682.8	682.8	0.1	0.0
1982	W	273.7	273.7	0.0	0.0
1983	W	130.4	130.4	0.0	0.0
1984	W	603.7	603.7	0.0	0.0
1985	D	682.2	682.2	0.0	0.0
1986	W	350.8	350.8	0.0	0.0
1987	D	685.8	685.7	-0.1	0.0
1988	C	666.7	668.9	2.2	0.3
1989	D	670.7	670.8	0.1	0.0
1990	C	660.0	663.5	3.5	0.5
1991	C	663.9	669.3	5.4	0.8
Mean:		532.4	533.1	0.7	0.1
Median:		660.0	663.5	0.0	0.0
Min:		130.4	130.4	-0.1	0.0
Max:		685.8	685.7	5.4	0.8
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**Old River at Tracy Road Bridge Salinity**

<b>July</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>EC (umhos/cm)</b>	<b>EC (umhos/cm)</b>		
1975	W	618.8	618.8	0.0	0.0
1976	C	682.4	682.4	0.0	0.0
1977	C	812.7	814.2	1.5	0.2
1978	AN	594.3	594.3	0.0	0.0
1979	BN	701.7	701.7	0.0	0.0
1980	AN	453.0	453.0	0.0	0.0
1981	D	686.7	686.7	0.0	0.0
1982	W	514.6	514.6	0.0	0.0
1983	W	188.5	188.5	0.0	0.0
1984	W	699.1	699.1	0.0	0.0
1985	D	673.0	673.0	0.0	0.0
1986	W	638.2	638.0	-0.2	0.0
1987	D	670.2	670.2	-0.1	0.0
1988	C	766.7	767.9	1.2	0.2
1989	D	678.1	678.1	0.1	0.0
1990	C	707.4	707.8	0.4	0.1
1991	C	697.8	697.9	0.1	0.0
Mean:		634.3	634.5	0.2	0.0
Median:		678.1	678.1	0.0	0.0
Min:		188.5	188.5	-0.2	0.0
Max:		812.7	814.2	1.5	0.2
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### Old River at Tracy Road Bridge Salinity

August					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	670.0	670.0	0.0	0.0
1976	C	668.1	668.0	0.0	0.0
1977	C	841.9	845.8	3.9	0.5
1978	AN	694.7	694.7	0.0	0.0
1979	BN	701.7	701.7	0.0	0.0
1980	AN	621.1	621.1	0.0	0.0
1981	D	677.3	677.3	0.0	0.0
1982	W	685.2	685.2	0.0	0.0
1983	W	649.1	649.1	0.0	0.0
1984	W	699.8	699.8	0.0	0.0
1985	D	667.3	667.3	0.0	0.0
1986	W	690.8	690.8	0.0	0.0
1987	D	729.6	729.6	0.0	0.0
1988	C	768.0	773.8	5.8	0.8
1989	D	871.2	869.7	-1.5	-0.2
1990	C	840.9	834.1	-6.8	-0.8
1991	C	734.6	733.9	-0.7	-0.1
Mean:		718.3	718.4	0.0	0.0
Median:		694.7	694.7	0.0	0.0
Min:		621.1	621.1	-6.8	-0.8
Max:		871.2	869.7	5.8	0.8
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### Old River at Tracy Road Bridge Salinity

#### September

Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	831.2	831.0	-0.1	0.0
1976	C	895.7	898.2	2.6	0.3
1977	C	1064.7	1067.9	3.2	0.3
1978	AN	733.7	733.7	0.0	0.0
1979	BN	850.3	850.1	-0.2	0.0
1980	AN	679.1	679.1	0.0	0.0
1981	D	913.4	913.3	-0.1	0.0
1982	W	587.9	588.0	0.0	0.0
1983	W	428.5	428.5	0.0	0.0
1984	W	911.7	911.9	0.1	0.0
1985	D	883.8	883.9	0.1	0.0
1986	W	838.7	838.5	-0.1	0.0
1987	D	1054.9	1055.2	0.2	0.0
1988	C	1084.8	1089.2	4.5	0.4
1989	D	925.4	924.1	-1.4	-0.2
1990	C	1025.3	1022.0	-3.2	-0.3
1991	C	908.8	905.7	-3.2	-0.4
Mean:		859.9	860.0	0.1	0.0
Median:		895.7	898.2	0.0	0.0
Min:		428.5	428.5	-3.2	-0.4
Max:		1084.8	1089.2	4.5	0.4
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

Long-term and Water Year Type Average Salinity at the Old River at Hwy 4 (CCWD Los Vaqueros) under CEQA Existing Condition and CEQA No Project Alternative Conditions

Analysis Period	EC (umhos/cm)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Long-term</b>												
<b>Full Simulation Period<sup>2</sup></b>												
CEQA Existing Condition	617.3	533.1	529.3	482.1	439.5	346.0	309.6	341.2	337.4	371.0	510.8	625.8
CEQA No Project Alternative	624.2	534.8	528.1	477.0	431.6	344.1	309.4	340.7	330.4	367.4	520.9	639.6
Difference	6.9	1.7	-1.2	-5.1	-7.9	-1.9	-0.2	-0.5	-7.0	-3.7	10.1	13.8
Percent Difference <sup>3</sup>	1.1	0.3	-0.2	-1.1	-1.8	-0.6	-0.1	-0.1	-2.1	-1.0	2.0	2.2
<b>Water Year Types<sup>1</sup></b>												
<b>Wet</b>												
CEQA Existing Condition	408.4	346.1	364.6	323.1	296.8	239.3	234.3	259.1	236.4	222.9	284.6	419.2
CEQA No Project Alternative	409.4	346.4	364.6	322.0	294.2	238.4	234.3	259.2	237.0	223.6	282.4	418.6
Difference	1.0	0.3	0.0	-1.1	-2.6	-0.9	0.0	0.0	0.6	0.8	-2.2	-0.7
Percent Difference	0.3	0.1	0.0	-0.3	-0.9	-0.4	0.0	0.0	0.3	0.3	-0.8	-0.2
<b>Above Normal</b>												
CEQA Existing Condition	862.3	670.4	559.6	434.4	371.8	384.5	284.8	306.7	268.4	230.5	321.1	524.2
CEQA No Project Alternative	886.3	678.1	553.7	429.4	371.7	384.5	284.8	306.7	268.7	232.7	339.5	574.6
Difference	23.9	7.7	-5.8	-5.0	-0.2	-0.1	0.0	0.0	0.3	2.3	18.4	50.3
Percent Difference	2.8	1.2	-1.0	-1.2	0.0	0.0	0.0	0.0	0.1	1.0	5.7	9.6
<b>Below Normal</b>												
CEQA Existing Condition	598.3	572.0	584.2	436.9	305.2	276.9	279.0	297.4	259.7	259.5	443.2	698.9
CEQA No Project Alternative	629.0	579.4	586.9	437.4	305.2	276.7	278.9	297.3	260.7	262.9	476.9	773.2
Difference	30.7	7.4	2.6	0.4	-0.1	-0.2	-0.2	-0.1	1.0	3.4	33.6	74.3
Percent Difference	5.1	1.3	0.5	0.1	0.0	-0.1	-0.1	0.0	0.4	1.3	7.6	10.6
<b>Dry</b>												
CEQA Existing Condition	660.7	639.9	533.2	447.9	466.4	322.7	293.4	357.6	336.1	419.4	618.0	763.0
CEQA No Project Alternative	661.4	638.8	533.1	444.0	458.6	322.4	294.9	357.6	328.1	429.8	653.4	778.8
Difference	0.6	-1.0	-0.1	-3.9	-7.8	-0.3	1.5	0.0	-8.0	10.4	35.4	15.7
Percent Difference	0.1	-0.2	0.0	-0.9	-1.7	-0.1	0.5	0.0	-2.4	2.5	5.7	2.1
<b>Critical</b>												
CEQA Existing Condition	697.3	572.1	667.7	696.5	614.5	469.9	413.8	432.6	482.6	559.0	740.6	748.5
CEQA No Project Alternative	703.4	573.8	665.5	685.2	596.6	464.6	412.0	430.9	464.1	535.9	734.6	748.4
Difference	6.0	1.7	-2.2	-11.3	-17.9	-5.3	-1.8	-1.8	-18.4	-23.2	-6.0	-0.1
Percent Difference	0.9	0.3	-0.3	-1.6	-2.9	-1.1	-0.4	-0.4	-3.8	-4.1	-0.8	0.0

1 As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB 1995)

2 Based on the 17-year simulation period

3 Relative difference of the monthly average



**Old River at Hwy 4 (CCWD Los Vaqueros) Salinity**

<b>October</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>EC (umhos/cm)</b>	<b>EC (umhos/cm)</b>		
1975	W	116.3	116.3	0.0	0.0
1976	C	280.2	281.3	1.1	0.4
1977	C	828.5	820.7	-7.8	-0.9
1978	AN	955.8	947.5	-8.3	-0.9
1979	BN	598.3	629.0	30.7	5.1
1980	AN	768.9	825.0	56.2	7.3
1981	D	516.3	522.5	6.2	1.2
1982	W	730.7	735.8	5.1	0.7
1983	W	261.6	261.7	0.2	0.1
1984	W	230.1	230.0	-0.1	0.0
1985	D	742.1	744.0	1.9	0.3
1986	W	703.2	703.1	-0.1	0.0
1987	D	572.0	575.2	3.2	0.6
1988	C	818.0	821.7	3.7	0.5
1989	D	812.5	803.8	-8.6	-1.1
1990	C	712.7	722.9	10.2	1.4
1991	C	847.4	870.2	22.9	2.7
Mean:		617.3	624.2	6.9	1.0
Median:		712.7	722.9	1.9	0.4
Min:		116.3	116.3	-8.6	-1.1
Max:		955.8	947.5	56.2	7.3
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### Old River at Hwy 4 (CCWD Los Vaqueros) Salinity

November					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	334.4	335.3	0.9	0.3
1976	C	299.6	295.8	-3.7	-1.2
1977	C	646.5	644.9	-1.7	-0.3
1978	AN	783.5	780.8	-2.7	-0.3
1979	BN	572.0	579.4	7.4	1.3
1980	AN	557.3	575.4	18.2	3.3
1981	D	553.7	555.9	2.2	0.4
1982	W	443.5	443.9	0.4	0.1
1983	W	218.7	218.7	0.0	0.0
1984	W	180.7	180.7	0.0	0.0
1985	D	651.8	642.3	-9.5	-1.5
1986	W	553.3	553.4	0.1	0.0
1987	D	603.6	609.6	6.0	1.0
1988	C	574.6	575.6	1.0	0.2
1989	D	750.4	747.6	-2.8	-0.4
1990	C	544.4	546.4	2.0	0.4
1991	C	795.5	806.2	10.7	1.3
Mean:		533.1	534.8	1.7	0.3
Median:		557.3	575.4	0.4	0.1
Min:		180.7	180.7	-9.5	-1.5
Max:		795.5	806.2	18.2	3.3
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### Old River at Hwy 4 (CCWD Los Vaqueros) Salinity

December					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	588.7	589.6	0.9	0.2
1976	C	575.0	550.7	-24.3	-4.2
1977	C	742.5	742.7	0.2	0.0
1978	AN	668.3	665.5	-2.8	-0.4
1979	BN	584.2	586.9	2.6	0.4
1980	AN	450.9	441.9	-8.9	-2.0
1981	D	616.7	618.2	1.5	0.2
1982	W	229.7	229.8	0.1	0.0
1983	W	300.1	300.1	0.0	0.0
1984	W	132.5	132.4	-0.1	-0.1
1985	D	276.2	270.9	-5.3	-1.9
1986	W	571.9	571.2	-0.7	-0.1
1987	D	638.5	643.0	4.5	0.7
1988	C	667.3	666.6	-0.8	-0.1
1989	D	601.5	600.3	-1.2	-0.2
1990	C	678.6	688.4	9.7	1.4
1991	C	675.2	679.1	3.9	0.6
Mean:		529.3	528.1	-1.2	-0.3
Median:		588.7	589.6	0.0	0.0
Min:		132.5	132.4	-24.3	-4.2
Max:		742.5	742.7	9.7	1.4
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**Old River at Hwy 4 (CCWD Los Vaqueros) Salinity**

January					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	551.8	540.4	-11.4	-2.1
1976	C	653.7	627.0	-26.7	-4.1
1977	C	722.4	721.5	-0.9	-0.1
1978	AN	549.0	547.1	-1.9	-0.3
1979	BN	436.9	437.4	0.4	0.1
1980	AN	319.9	311.6	-8.2	-2.6
1981	D	408.9	401.8	-7.1	-1.7
1982	W	329.5	329.5	0.1	0.0
1983	W	156.3	156.2	0.0	0.0
1984	W	161.5	161.8	0.3	0.2
1985	D	267.8	259.7	-8.2	-3.1
1986	W	416.6	422.2	5.6	1.3
1987	D	523.8	525.2	1.4	0.3
1988	C	560.1	557.6	-2.6	-0.5
1989	D	591.2	589.6	-1.6	-0.3
1990	C	889.3	861.0	-28.3	-3.2
1991	C	657.1	659.1	2.0	0.3
Mean:		482.1	477.0	-5.1	-0.9
Median:		523.8	525.2	-1.6	-0.3
Min:		156.3	156.2	-28.3	-4.1
Max:		889.3	861.0	5.6	1.3
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### Old River at Hwy 4 (CCWD Los Vaqueros) Salinity

February					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	464.9	447.9	-17.0	-3.7
1976	C	717.4	701.3	-16.1	-2.2
1977	C	722.0	718.1	-3.9	-0.5
1978	AN	395.0	395.1	0.1	0.0
1979	BN	305.2	305.1	-0.1	0.0
1980	AN	348.6	348.2	-0.4	-0.1
1981	D	328.8	314.7	-14.1	-4.3
1982	W	255.4	255.4	0.0	0.0
1983	W	121.6	121.6	0.0	0.0
1984	W	249.0	249.0	0.0	0.0
1985	D	414.5	398.2	-16.3	-3.9
1986	W	393.2	397.2	4.0	1.0
1987	D	588.4	589.2	0.8	0.1
1988	C	319.7	319.7	-0.1	0.0
1989	D	533.8	532.3	-1.5	-0.3
1990	C	628.6	557.9	-70.6	-11.2
1991	C	685.0	686.0	1.1	0.2
Mean:		439.5	431.6	-7.9	-1.5
Median:		395.0	397.2	-0.1	0.0
Min:		121.6	121.6	-70.6	-11.2
Max:		722.0	718.1	4.0	1.0
# Years Rel Diff <= -10%					1
# Years Rel Diff >= 10%					0

### Old River at Hwy 4 (CCWD Los Vaqueros) Salinity

March					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	258.5	258.1	-0.5	-0.2
1976	C	477.2	473.1	-4.1	-0.9
1977	C	673.3	670.8	-2.6	-0.4
1978	AN	412.4	412.5	0.0	0.0
1979	BN	276.9	276.7	-0.2	-0.1
1980	AN	356.7	356.4	-0.2	-0.1
1981	D	252.2	251.8	-0.4	-0.2
1982	W	282.5	282.6	0.0	0.0
1983	W	159.7	159.8	0.1	0.1
1984	W	231.8	231.8	0.1	0.0
1985	D	360.0	356.2	-3.8	-1.1
1986	W	263.7	259.7	-4.0	-1.5
1987	D	366.9	368.0	1.1	0.3
1988	C	346.6	347.6	1.0	0.3
1989	D	311.9	313.6	1.8	0.6
1990	C	388.7	367.6	-21.1	-5.4
1991	C	463.7	463.9	0.2	0.0
Mean:		346.0	344.1	-1.9	-0.5
Median:		346.6	347.6	-0.2	-0.1
Min:		159.7	159.8	-21.1	-5.4
Max:		673.3	670.8	1.8	0.6
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**Old River at Hwy 4 (CCWD Los Vaqueros) Salinity**

<b>April</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>EC (umhos/cm)</b>	<b>EC (umhos/cm)</b>		
1975	W	254.2	254.1	0.0	0.0
1976	C	387.7	386.7	-0.9	-0.2
1977	C	601.4	600.4	-1.0	-0.2
1978	AN	286.0	286.0	0.0	0.0
1979	BN	279.0	278.9	-0.2	-0.1
1980	AN	283.7	283.6	-0.1	0.0
1981	D	284.5	286.3	1.8	0.6
1982	W	167.2	167.2	0.0	0.0
1983	W	179.9	179.5	-0.4	-0.2
1984	W	268.2	268.5	0.3	0.1
1985	D	341.8	343.9	2.1	0.6
1986	W	302.2	302.3	0.1	0.0
1987	D	313.9	314.8	0.9	0.3
1988	C	358.6	359.7	1.0	0.3
1989	D	233.2	234.4	1.2	0.5
1990	C	382.2	374.0	-8.2	-2.1
1991	C	339.2	339.3	0.1	0.0
Mean:		309.6	309.4	-0.2	0.0
Median:		286.0	286.3	0.0	0.0
Min:		167.2	167.2	-8.2	-2.1
Max:		601.4	600.4	2.1	0.6
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**Old River at Hwy 4 (CCWD Los Vaqueros) Salinity**

<b>May</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>EC (umhos/cm)</b>	<b>EC (umhos/cm)</b>		
1975	W	292.5	292.5	0.0	0.0
1976	C	447.0	443.8	-3.2	-0.7
1977	C	545.0	545.3	0.3	0.1
1978	AN	315.9	315.9	0.0	0.0
1979	BN	297.4	297.3	-0.1	0.0
1980	AN	297.5	297.5	0.0	0.0
1981	D	352.1	351.7	-0.4	-0.1
1982	W	227.4	227.4	0.0	0.0
1983	W	175.2	175.2	0.0	0.0
1984	W	332.3	332.2	-0.1	0.0
1985	D	389.8	390.2	0.4	0.1
1986	W	268.3	268.5	0.2	0.1
1987	D	383.2	382.9	-0.3	-0.1
1988	C	423.0	423.1	0.1	0.0
1989	D	305.5	305.7	0.3	0.1
1990	C	397.3	392.4	-4.9	-1.2
1991	C	350.8	349.7	-1.1	-0.3
Mean:		341.2	340.7	-0.5	-0.1
Median:		332.3	332.2	0.0	0.0
Min:		175.2	175.2	-4.9	-1.2
Max:		545.0	545.3	0.4	0.1
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0



### Old River at Hwy 4 (CCWD Los Vaqueros) Salinity

June					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	248.0	248.0	0.0	0.0
1976	C	544.4	525.6	-18.8	-3.5
1977	C	594.4	585.4	-8.9	-1.5
1978	AN	265.8	265.8	0.0	0.0
1979	BN	259.7	260.7	1.0	0.4
1980	AN	271.0	271.6	0.6	0.2
1981	D	314.5	306.1	-8.4	-2.7
1982	W	239.8	239.8	0.0	0.0
1983	W	133.1	133.1	0.0	0.0
1984	W	290.6	293.6	3.0	1.0
1985	D	309.6	310.8	1.2	0.4
1986	W	270.4	270.6	0.1	0.0
1987	D	409.9	385.0	-24.9	-6.1
1988	C	455.4	441.8	-13.6	-3.0
1989	D	310.4	310.5	0.0	0.0
1990	C	440.0	409.6	-30.4	-6.9
1991	C	378.6	358.2	-20.4	-5.4
Mean:		337.4	330.4	-7.0	-1.6
Median:		309.6	306.1	0.0	0.0
Min:		133.1	133.1	-30.4	-6.9
Max:		594.4	585.4	3.0	1.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**Old River at Hwy 4 (CCWD Los Vaqueros) Salinity**

July					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	212.7	213.3	0.6	0.3
1976	C	513.5	498.5	-15.0	-2.9
1977	C	596.6	578.7	-18.0	-3.0
1978	AN	225.7	225.9	0.2	0.1
1979	BN	259.5	262.9	3.4	1.3
1980	AN	235.2	239.5	4.3	1.8
1981	D	439.2	456.9	17.7	4.0
1982	W	220.9	222.4	1.4	0.6
1983	W	192.2	192.1	-0.1	-0.1
1984	W	239.4	242.1	2.7	1.1
1985	D	464.9	466.9	1.9	0.4
1986	W	249.1	248.3	-0.7	-0.3
1987	D	390.4	392.1	1.7	0.4
1988	C	466.4	458.0	-8.4	-1.8
1989	D	383.2	403.5	20.4	5.3
1990	C	613.2	570.2	-43.0	-7.0
1991	C	605.4	573.8	-31.6	-5.2
Mean:		371.0	367.4	-3.7	-0.3
Median:		383.2	392.1	0.6	0.3
Min:		192.2	192.1	-43.0	-7.0
Max:		613.2	578.7	20.4	5.3
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**Old River at Hwy 4 (CCWD Los Vaqueros) Salinity**

<b>August</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>EC (umhos/cm)</b>	<b>EC (umhos/cm)</b>		
1975	W	314.6	313.5	-1.1	-0.3
1976	C	490.3	474.1	-16.2	-3.3
1977	C	768.1	759.8	-8.3	-1.1
1978	AN	332.7	358.7	26.0	7.8
1979	BN	443.2	476.9	33.6	7.6
1980	AN	309.5	320.3	10.9	3.5
1981	D	609.1	653.6	44.5	7.3
1982	W	301.7	296.9	-4.8	-1.6
1983	W	186.0	186.4	0.4	0.2
1984	W	296.9	295.6	-1.3	-0.4
1985	D	670.2	671.7	1.5	0.2
1986	W	323.8	319.6	-4.2	-1.3
1987	D	613.7	653.5	39.8	6.5
1988	C	773.1	770.8	-2.4	-0.3
1989	D	579.1	634.9	55.8	9.6
1990	C	799.4	794.7	-4.6	-0.6
1991	C	872.1	873.6	1.5	0.2
Mean:		510.8	520.9	10.1	2.0
Median:		490.3	476.9	0.4	0.2
Min:		186.0	186.4	-16.2	-3.3
Max:		872.1	873.6	55.8	9.6
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### Old River at Hwy 4 (CCWD Los Vaqueros) Salinity

September					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	413.6	416.1	2.5	0.6
1976	C	751.9	738.1	-13.9	-1.8
1977	C	876.6	866.0	-10.6	-1.2
1978	AN	570.8	664.5	93.7	16.4
1979	BN	698.9	773.2	74.3	10.6
1980	AN	477.7	484.7	7.0	1.5
1981	D	767.6	785.2	17.6	2.3
1982	W	399.6	394.1	-5.4	-1.4
1983	W	216.8	217.2	0.4	0.2
1984	W	597.4	596.8	-0.6	-0.1
1985	D	767.9	767.9	0.0	0.0
1986	W	468.8	468.7	-0.1	0.0
1987	D	820.4	836.3	15.9	1.9
1988	C	694.1	683.5	-10.7	-1.5
1989	D	696.2	725.6	29.4	4.2
1990	C	706.4	730.3	24.0	3.4
1991	C	713.5	724.3	10.8	1.5
Mean:		625.8	639.6	13.8	2.2
Median:		696.2	724.3	2.5	0.6
Min:		216.8	217.2	-13.9	-1.8
Max:		876.6	866.0	93.7	16.4
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					2

Long-term and Water Year Type Average Salinity at CCWD Pumping Plant #1 (Rock Slough) under CEQA Existing Condition and CEQA No Project Alternative Conditions

Analysis Period	EC (umhos/cm)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Long-term</b>												
<b>Full Simulation Period<sup>2</sup></b>												
CEQA Existing Condition	715	611	604	617	541	434	399	326	323	406	594	711
CEQA No Project Alternative	724	613	602	611	531	432	399	325	316	402	606	728
Difference	9.3	2.7	-1.5	-5.6	-10.0	-2.1	0.0	-0.9	-7.9	-4.2	12.0	16.9
Percent Difference <sup>3</sup>	1.3	0.4	-0.2	-0.9	-1.9	-0.5	0.0	-0.3	-2.4	-1.0	2.0	2.4
<b>Water Year Types<sup>1</sup></b>												
<b>Wet</b>												
CEQA Existing Condition	473	416	463	541	483	482	455	289	240	227	309	463
CEQA No Project Alternative	474	417	463	540	479	482	456	289	240	226	306	461
Difference	1.7	0.4	0.1	-0.7	-4.3	-0.3	0.4	0.0	0.3	-1.1	-3.7	-1.1
Percent Difference	0.4	0.1	0.0	-0.1	-0.9	-0.1	0.1	0.0	0.1	-0.5	-1.2	-0.2
<b>Above Normal</b>												
CEQA Existing Condition	1,014	771	619	671	546	461	389	302	256	232	354	591
CEQA No Project Alternative	1,048	783	612	665	546	461	389	302	257	234	375	653
Difference	33.3	12.3	-6.6	-6.8	-0.5	-0.1	0.0	0.0	0.3	1.7	21.4	62.0
Percent Difference	3.3	1.6	-1.1	-1.0	-0.1	0.0	0.0	0.0	0.1	0.7	6.0	10.5
<b>Below Normal</b>												
CEQA Existing Condition	704	646	647	506	331	277	334	304	244	277	501	785
CEQA No Project Alternative	750	656	650	506	331	276	334	304	244	280	541	872
Difference	45.9	10.2	3.1	0.5	-0.2	-0.2	-0.4	-0.1	0.5	3.5	40.0	86.7
Percent Difference	6.5	1.6	0.5	0.1	0.0	-0.1	-0.1	0.0	0.2	1.3	8.0	11.0
<b>Dry</b>												
CEQA Existing Condition	750	744	592	501	508	329	322	310	296	466	712	867
CEQA No Project Alternative	750	743	592	497	499	328	323	310	289	479	754	887
Difference	0.1	0.0	0.0	-4.7	-9.1	-1.1	1.3	-0.4	-7.1	12.7	42.6	19.9
Percent Difference	0.0	0.0	0.0	-0.9	-1.8	-0.3	0.4	-0.1	-2.4	2.7	6.0	2.3
<b>Critical</b>												
CEQA Existing Condition	810	628	739	785	665	491	422	388	472	633	900	867
CEQA No Project Alternative	818	630	736	773	643	485	420	386	450	609	893	867
Difference	7.4	2.0	-3.1	-12.0	-22.2	-5.8	-1.4	-2.8	-21.8	-24.7	-6.2	0.4
Percent Difference	0.9	0.3	-0.4	-1.5	-3.3	-1.2	-0.3	-0.7	-4.6	-3.9	-0.7	0.0

1 As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB 1995)

2 Based on the 17-year simulation period

3 Relative difference of the monthly average

### CCWD Pumping Plant #1 (Rock Slough) Salinity

October					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	94.5	94.5	0.0	0.0
1976	C	266.4	267.9	1.5	0.6
1977	C	999.3	988.1	-11.2	-1.1
1978	AN	1118.5	1108.0	-10.5	-0.9
1979	BN	704.3	750.1	45.9	6.5
1980	AN	909.9	987.1	77.2	8.5
1981	D	605.9	615.0	9.1	1.5
1982	W	895.9	904.5	8.7	1.0
1983	W	261.1	261.6	0.5	0.2
1984	W	268.8	268.8	0.0	0.0
1985	D	832.7	833.6	0.9	0.1
1986	W	843.1	842.5	-0.6	-0.1
1987	D	645.7	646.9	1.2	0.2
1988	C	992.5	997.3	4.8	0.5
1989	D	915.5	905.0	-10.6	-1.2
1990	C	806.7	819.8	13.0	1.6
1991	C	986.5	1015.5	29.0	2.9
Mean:		714.5	723.9	9.3	1.2
Median:		832.7	833.6	1.2	0.2
Min:		94.5	94.5	-11.2	-1.2
Max:		1118.5	1108.0	77.2	8.5
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**CCWD Pumping Plant #1 (Rock Slough) Salinity**

<b>November</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>EC (umhos/cm)</b>	<b>EC (umhos/cm)</b>		
1975	W	311.5	312.6	1.1	0.4
1976	C	279.3	276.0	-3.4	-1.2
1977	C	731.1	728.2	-2.9	-0.4
1978	AN	881.3	878.0	-3.3	-0.4
1979	BN	645.6	655.9	10.2	1.6
1980	AN	660.3	688.2	27.9	4.2
1981	D	609.3	612.5	3.2	0.5
1982	W	568.0	569.2	1.2	0.2
1983	W	297.9	297.9	0.0	0.0
1984	W	289.1	289.1	0.0	0.0
1985	D	846.9	840.6	-6.3	-0.7
1986	W	615.6	615.4	-0.2	0.0
1987	D	674.0	680.4	6.4	0.9
1988	C	623.7	624.6	0.9	0.1
1989	D	843.8	840.3	-3.5	-0.4
1990	C	581.7	584.5	2.8	0.5
1991	C	922.9	935.3	12.4	1.3
	Mean:	610.7	613.4	2.7	0.4
	Median:	623.7	624.6	0.9	0.1
	Min:	279.3	276.0	-6.3	-1.2
	Max:	922.9	935.3	27.9	4.2
	# Years Rel Diff <= -10%				0
	# Years Rel Diff >= 10%				0

### CCWD Pumping Plant #1 (Rock Slough) Salinity

December					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	665.3	666.3	1.1	0.2
1976	C	641.3	612.8	-28.5	-4.4
1977	C	871.8	872.0	0.1	0.0
1978	AN	736.7	734.1	-2.6	-0.4
1979	BN	646.5	649.7	3.2	0.5
1980	AN	500.9	490.4	-10.5	-2.1
1981	D	700.3	702.1	1.8	0.3
1982	W	221.6	221.7	0.1	0.0
1983	W	408.9	408.8	-0.1	0.0
1984	W	358.3	358.2	0.0	0.0
1985	D	275.4	269.0	-6.4	-2.3
1986	W	658.5	657.9	-0.6	-0.1
1987	D	740.9	746.7	5.9	0.8
1988	C	753.5	752.7	-0.8	-0.1
1989	D	651.5	650.2	-1.3	-0.2
1990	C	732.9	742.4	9.5	1.3
1991	C	695.5	699.3	3.8	0.5
Mean:		603.5	602.0	-1.5	-0.4
Median:		658.5	657.9	0.0	0.0
Min:		221.6	221.7	-28.5	-4.4
Max:		871.8	872.0	9.5	1.3
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0



**CCWD Pumping Plant #1 (Rock Slough) Salinity**

January					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	616.5	606.3	-10.2	-1.7
1976	C	742.8	711.2	-31.6	-4.3
1977	C	830.5	828.8	-1.7	-0.2
1978	AN	990.7	987.8	-2.9	-0.3
1979	BN	505.6	506.1	0.5	0.1
1980	AN	351.9	341.2	-10.7	-3.0
1981	D	444.0	435.4	-8.6	-1.9
1982	W	477.4	477.5	0.1	0.0
1983	W	886.3	886.3	0.0	0.0
1984	W	265.4	265.6	0.2	0.1
1985	D	271.1	261.3	-9.8	-3.6
1986	W	459.7	466.1	6.4	1.4
1987	D	609.9	611.6	1.7	0.3
1988	C	627.0	624.0	-3.0	-0.5
1989	D	680.0	678.1	-1.9	-0.3
1990	C	1036.0	1010.3	-25.7	-2.5
1991	C	687.3	689.5	2.2	0.3
Mean:		616.6	611.0	-5.6	-0.9
Median:		616.5	611.6	-1.9	-0.3
Min:		265.4	261.3	-31.6	-4.3
Max:		1036.0	1010.3	6.4	1.4
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**CCWD Pumping Plant #1 (Rock Slough) Salinity**

<b>February</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>EC (umhos/cm)</b>	<b>EC (umhos/cm)</b>		
1975	W	615.0	588.6	-26.3	-4.3
1976	C	825.3	806.7	-18.6	-2.3
1977	C	768.9	760.0	-8.8	-1.1
1978	AN	451.0	451.2	0.2	0.0
1979	BN	330.8	330.6	-0.2	-0.1
1980	AN	641.6	640.5	-1.2	-0.2
1981	D	336.4	320.7	-15.7	-4.7
1982	W	315.7	315.6	0.0	0.0
1983	W	728.4	728.4	0.0	0.0
1984	W	275.7	275.7	0.0	0.0
1985	D	455.3	435.4	-19.9	-4.4
1986	W	480.6	485.3	4.8	1.0
1987	D	683.0	683.7	0.7	0.1
1988	C	294.7	294.3	-0.4	-0.1
1989	D	556.6	554.9	-1.7	-0.3
1990	C	706.7	622.8	-83.9	-11.9
1991	C	730.4	731.2	0.8	0.1
Mean:		540.9	530.9	-10.0	-1.7
Median:		556.6	554.9	-0.4	-0.1
Min:		275.7	275.7	-83.9	-11.9
Max:		825.3	806.7	4.8	1.0
# Years Rel Diff <= -10%					1
# Years Rel Diff >= 10%					0

### CCWD Pumping Plant #1 (Rock Slough) Salinity

March					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	325.7	325.1	-0.7	-0.2
1976	C	534.6	530.4	-4.2	-0.8
1977	C	646.7	642.3	-4.4	-0.7
1978	AN	517.3	517.4	0.1	0.0
1979	BN	276.7	276.4	-0.2	-0.1
1980	AN	404.9	404.6	-0.3	-0.1
1981	D	231.5	230.2	-1.3	-0.6
1982	W	438.9	438.9	0.0	0.0
1983	W	792.9	792.8	-0.1	0.0
1984	W	252.6	252.6	0.0	0.0
1985	D	366.4	361.4	-5.0	-1.4
1986	W	601.7	601.0	-0.7	-0.1
1987	D	365.6	366.0	0.4	0.1
1988	C	298.7	299.3	0.6	0.2
1989	D	351.2	352.8	1.6	0.5
1990	C	402.3	381.1	-21.2	-5.3
1991	C	573.4	573.6	0.2	0.0
Mean:		434.2	432.1	-2.1	-0.5
Median:		402.3	381.1	-0.2	-0.1
Min:		231.5	230.2	-21.2	-5.3
Max:		792.9	792.8	1.6	0.5
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**CCWD Pumping Plant #1 (Rock Slough) Salinity**

<b>April</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>EC (umhos/cm)</b>	<b>EC (umhos/cm)</b>		
1975	W	335.9	337.0	1.2	0.4
1976	C	466.5	465.7	-0.8	-0.2
1977	C	555.9	554.8	-1.1	-0.2
1978	AN	447.1	447.1	0.0	0.0
1979	BN	334.2	333.8	-0.3	-0.1
1980	AN	331.2	331.2	0.0	0.0
1981	D	305.9	306.8	0.9	0.3
1982	W	446.3	446.3	0.0	0.0
1983	W	815.9	816.8	1.0	0.1
1984	W	320.4	320.5	0.1	0.0
1985	D	373.5	376.2	2.6	0.7
1986	W	356.9	356.8	0.0	0.0
1987	D	367.9	368.2	0.3	0.1
1988	C	384.0	384.8	0.8	0.2
1989	D	240.1	241.3	1.3	0.5
1990	C	374.5	368.6	-5.9	-1.6
1991	C	327.5	327.6	0.0	0.0
Mean:		399.0	399.0	0.0	0.0
Median:		367.9	368.2	0.0	0.0
Min:		240.1	241.3	-5.9	-1.6
Max:		815.9	816.8	2.6	0.7
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**CCWD Pumping Plant #1 (Rock Slough) Salinity**

<b>May</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>EC (umhos/cm)</b>	<b>EC (umhos/cm)</b>		
1975	W	298.8	298.8	0.0	0.0
1976	C	419.1	413.3	-5.8	-1.4
1977	C	496.3	496.3	0.0	0.0
1978	AN	307.1	307.1	0.0	0.0
1979	BN	303.8	303.7	-0.1	0.0
1980	AN	296.9	296.9	0.0	0.0
1981	D	319.6	318.9	-0.8	-0.3
1982	W	271.3	271.3	0.0	0.0
1983	W	275.5	275.5	0.0	0.0
1984	W	326.4	326.3	-0.1	0.0
1985	D	341.6	341.9	0.4	0.1
1986	W	272.5	272.7	0.2	0.1
1987	D	321.9	320.5	-1.4	-0.4
1988	C	384.2	383.1	-1.0	-0.3
1989	D	257.4	257.6	0.2	0.1
1990	C	335.4	330.0	-5.4	-1.6
1991	C	307.2	305.2	-2.0	-0.7
Mean:		325.6	324.7	-0.9	-0.3
Median:		307.2	307.1	0.0	0.0
Min:		257.4	257.6	-5.8	-1.6
Max:		496.3	496.3	0.4	0.1
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### CCWD Pumping Plant #1 (Rock Slough) Salinity

June					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	238.0	238.0	0.0	0.0
1976	C	579.7	554.5	-25.2	-4.3
1977	C	616.9	607.6	-9.3	-1.5
1978	AN	256.3	256.3	0.0	0.0
1979	BN	243.9	244.4	0.5	0.2
1980	AN	256.3	256.8	0.4	0.2
1981	D	290.2	282.7	-7.5	-2.6
1982	W	235.2	235.2	0.0	0.0
1983	W	210.6	210.6	0.0	0.0
1984	W	265.5	266.9	1.5	0.6
1985	D	289.4	289.7	0.2	0.1
1986	W	250.8	250.9	0.1	0.0
1987	D	343.3	322.1	-21.1	-6.1
1988	C	387.5	378.0	-9.5	-2.5
1989	D	259.7	259.6	0.0	0.0
1990	C	415.0	375.4	-39.6	-9.5
1991	C	359.9	334.7	-25.2	-7.0
Mean:		323.4	315.5	-7.9	-1.9
Median:		265.5	266.9	0.0	0.0
Min:		210.6	210.6	-39.6	-9.5
Max:		616.9	607.6	1.5	0.6
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**CCWD Pumping Plant #1 (Rock Slough) Salinity**

<b>July</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>EC (umhos/cm)</b>	<b>EC (umhos/cm)</b>		
1975	W	217.6	217.1	-0.5	-0.2
1976	C	582.8	565.6	-17.2	-3.0
1977	C	673.1	653.5	-19.6	-2.9
1978	AN	226.9	226.3	-0.6	-0.3
1979	BN	276.7	280.2	3.5	1.3
1980	AN	237.3	241.3	4.1	1.7
1981	D	494.8	516.1	21.3	4.3
1982	W	211.5	212.0	0.5	0.2
1983	W	212.3	212.1	-0.1	0.0
1984	W	244.8	243.7	-1.1	-0.4
1985	D	524.6	526.1	1.5	0.3
1986	W	250.6	246.3	-4.2	-1.7
1987	D	417.4	423.7	6.3	1.5
1988	C	506.8	498.7	-8.1	-1.6
1989	D	428.5	450.3	21.7	5.1
1990	C	704.2	659.2	-45.1	-6.4
1991	C	699.4	665.7	-33.7	-4.8
	Mean:	406.4	402.2	-4.2	-0.4
	Median:	417.4	423.7	-0.5	-0.2
	Min:	211.5	212.0	-45.1	-6.4
	Max:	704.2	665.7	21.7	5.1
	# Years Rel Diff <= -10%				0
	# Years Rel Diff >= 10%				0

### CCWD Pumping Plant #1 (Rock Slough) Salinity

August					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	343.1	341.3	-1.8	-0.5
1976	C	552.4	532.9	-19.6	-3.5
1977	C	939.1	927.8	-11.2	-1.2
1978	AN	366.5	396.3	29.8	8.1
1979	BN	501.4	541.5	40.0	8.0
1980	AN	340.5	353.4	12.9	3.8
1981	D	701.9	756.7	54.8	7.8
1982	W	323.6	315.7	-7.9	-2.4
1983	W	209.0	209.0	0.0	0.0
1984	W	317.6	314.6	-3.0	-0.9
1985	D	771.0	772.5	1.5	0.2
1986	W	352.9	347.0	-6.0	-1.7
1987	D	700.9	748.7	47.8	6.8
1988	C	980.4	974.9	-5.5	-0.6
1989	D	672.9	739.3	66.4	9.9
1990	C	977.6	978.3	0.7	0.1
1991	C	1048.5	1053.2	4.8	0.5
Mean:		594.1	606.1	12.0	2.0
Median:		552.4	541.5	0.7	0.1
Min:		209.0	209.0	-19.6	-3.5
Max:		1048.5	1053.2	66.4	9.9
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0



**CCWD Pumping Plant #1 (Rock Slough) Salinity**

**September**

Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	465.1	468.3	3.2	0.7
1976	C	832.4	814.9	-17.6	-2.1
1977	C	1054.6	1040.0	-14.6	-1.4
1978	AN	642.2	759.0	116.8	18.2
1979	BN	784.9	871.6	86.7	11.0
1980	AN	539.0	546.2	7.2	1.3
1981	D	862.8	885.4	22.6	2.6
1982	W	442.4	434.4	-8.0	-1.8
1983	W	208.3	208.8	0.5	0.2
1984	W	676.2	675.3	-0.9	-0.1
1985	D	874.5	874.8	0.3	0.0
1986	W	520.4	520.0	-0.3	-0.1
1987	D	928.8	949.8	20.9	2.3
1988	C	795.0	781.7	-13.3	-1.7
1989	D	803.5	839.1	35.6	4.4
1990	C	821.0	854.1	33.1	4.0
1991	C	832.6	846.8	14.2	1.7
Mean:		710.8	727.7	16.8	2.3
Median:		795.0	814.9	3.2	0.7
Min:		208.3	208.8	-17.6	-2.1
Max:		1054.6	1040.0	116.8	18.2
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					2

Long-term and Water Year Type Average Salinity at West Canal at the mouth of CCF (SWP Banks) under CEQA Existing Condition and CEQA No Project Alternative Conditions

Analysis Period	EC (umhos/cm)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Long-term</b>												
<b>Full Simulation Period<sup>2</sup></b>												
CEQA Existing Condition	562.6	508.0	487.3	457.9	412.7	355.1	323.8	336.0	344.2	345.2	441.9	548.0
CEQA No Project Alternative	568.6	510.0	486.8	454.7	405.4	352.9	323.4	335.7	343.6	341.7	448.8	559.8
Difference	6.0	2.0	-0.6	-3.2	-7.3	-2.2	-0.4	-0.3	-0.6	-3.5	6.9	11.9
Percent Difference <sup>3</sup>	1.1	0.4	-0.1	-0.7	-1.8	-0.6	-0.1	-0.1	-0.2	-1.0	1.6	2.2
<b>Water Year Types<sup>1</sup></b>												
<b>Wet</b>												
CEQA Existing Condition	393.3	346.4	323.3	306.1	267.8	228.9	231.3	254.2	255.6	234.2	270.2	390.5
CEQA No Project Alternative	394.4	346.7	323.4	305.5	265.3	228.7	231.2	254.2	256.3	236.6	269.0	390.0
Difference	1.0	0.3	0.1	-0.6	-2.5	-0.1	-0.1	0.0	0.7	2.3	-1.2	-0.5
Percent Difference	0.3	0.1	0.0	-0.2	-0.9	-0.1	0.0	0.0	0.3	1.0	-0.4	-0.1
<b>Above Normal</b>												
CEQA Existing Condition	762.8	653.5	520.4	416.4	261.6	304.9	257.1	264.2	275.7	245.1	295.5	464.5
CEQA No Project Alternative	782.9	660.9	517.1	412.9	261.7	304.7	257.1	264.2	276.0	247.5	307.6	503.9
Difference	20.2	7.4	-3.2	-3.5	0.1	-0.1	0.0	0.0	0.2	2.4	12.1	39.4
Percent Difference	2.6	1.1	-0.6	-0.8	0.0	0.0	0.0	0.0	0.1	1.0	4.1	8.5
<b>Below Normal</b>												
CEQA Existing Condition	534.7	504.4	547.9	430.1	287.1	285.5	293.8	303.1	289.8	257.1	390.3	592.6
CEQA No Project Alternative	561.4	511.1	550.6	430.6	287.0	285.4	293.7	303.0	290.9	259.6	413.8	649.0
Difference	26.7	6.7	2.7	0.5	0.0	-0.1	-0.1	-0.1	1.1	2.5	23.5	56.4
Percent Difference	5.0	1.3	0.5	0.1	0.0	0.0	0.0	0.0	0.4	1.0	6.0	9.5
<b>Dry</b>												
CEQA Existing Condition	587.2	587.5	514.5	436.1	460.8	378.7	332.5	356.2	359.2	377.3	531.5	651.6
CEQA No Project Alternative	587.7	586.8	514.4	433.7	454.1	378.0	334.1	356.9	358.6	382.4	560.9	666.1
Difference	0.5	-0.7	-0.1	-2.4	-6.8	-0.8	1.7	0.7	-0.6	5.2	29.5	14.5
Percent Difference	0.1	-0.1	0.0	-0.6	-1.5	-0.2	0.5	0.2	-0.2	1.4	5.5	2.2
<b>Critical</b>												
CEQA Existing Condition	637.8	548.5	604.3	649.3	604.6	496.6	442.0	436.9	459.1	488.3	610.9	646.9
CEQA No Project Alternative	643.3	551.2	603.2	642.2	587.8	489.9	439.4	435.2	456.6	468.5	602.5	649.1
Difference	5.5	2.6	-1.1	-7.0	-16.8	-6.6	-2.6	-1.7	-2.5	-19.8	-8.3	2.2
Percent Difference	0.9	0.5	-0.2	-1.1	-2.8	-1.3	-0.6	-0.4	-0.5	-4.0	-1.4	0.3

1 As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB 1995)

2 Based on the 17-year simulation period

3 Relative difference of the monthly average

**West Canal at the mouth of CCF (SWP Banks) Salinity**

<b>October</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>EC (umhos/cm)</b>	<b>EC (umhos/cm)</b>		
1975	W	129.5	129.5	0.0	0.0
1976	C	309.2	310.1	0.9	0.3
1977	C	744.1	737.2	-6.9	-0.9
1978	AN	833.5	826.1	-7.4	-0.9
1979	BN	534.7	561.4	26.6	5.0
1980	AN	692.0	739.8	47.7	6.9
1981	D	469.0	473.9	4.9	1.0
1982	W	686.5	691.5	5.0	0.7
1983	W	254.0	254.1	0.1	0.0
1984	W	237.5	237.4	-0.1	0.0
1985	D	657.4	658.9	1.5	0.2
1986	W	659.0	659.2	0.2	0.0
1987	D	519.8	522.9	3.1	0.6
1988	C	764.2	768.8	4.5	0.6
1989	D	702.7	695.1	-7.6	-1.1
1990	C	658.2	667.8	9.7	1.5
1991	C	713.3	732.5	19.2	2.7
Mean:		562.6	568.6	6.0	1.0
Median:		658.2	659.2	1.5	0.3
Min:		129.5	129.5	-7.6	-1.1
Max:		833.5	826.1	47.7	6.9
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**West Canal at the mouth of CCF (SWP Banks) Salinity**

<b>November</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>EC (umhos/cm)</b>	<b>EC (umhos/cm)</b>		
1975	W	323.2	323.8	0.6	0.2
1976	C	298.8	296.8	-2.0	-0.7
1977	C	581.1	579.3	-1.8	-0.3
1978	AN	771.9	768.2	-3.8	-0.5
1979	BN	504.4	511.1	6.7	1.3
1980	AN	535.1	553.6	18.5	3.5
1981	D	476.6	478.5	1.8	0.4
1982	W	461.8	462.2	0.4	0.1
1983	W	233.2	233.2	0.0	0.0
1984	W	176.7	176.7	0.0	0.0
1985	D	619.9	613.6	-6.3	-1.0
1986	W	537.0	537.5	0.5	0.1
1987	D	533.3	538.2	5.0	0.9
1988	C	571.1	572.7	1.6	0.3
1989	D	720.2	716.9	-3.3	-0.5
1990	C	534.1	535.9	1.7	0.3
1991	C	757.4	771.1	13.7	1.8
	Mean:	508.0	510.0	2.0	0.3
	Median:	534.1	537.5	0.5	0.1
	Min:	176.7	176.7	-6.3	-1.0
	Max:	771.9	771.1	18.5	3.5
	# Years Rel Diff <= -10%				0
	# Years Rel Diff >= 10%				0

**West Canal at the mouth of CCF (SWP Banks) Salinity**

<b>December</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>EC (umhos/cm)</b>	<b>EC (umhos/cm)</b>		
1975	W	527.7	528.4	0.7	0.1
1976	C	505.7	487.8	-18.0	-3.6
1977	C	651.6	651.5	-0.1	0.0
1978	AN	610.9	609.0	-1.9	-0.3
1979	BN	547.9	550.6	2.7	0.5
1980	AN	429.8	425.2	-4.5	-1.0
1981	D	571.6	572.9	1.2	0.2
1982	W	272.3	272.4	0.1	0.0
1983	W	156.4	156.4	0.0	0.0
1984	W	127.1	126.9	-0.2	-0.2
1985	D	318.3	313.4	-4.9	-1.5
1986	W	532.9	532.6	-0.3	-0.1
1987	D	593.7	598.2	4.5	0.8
1988	C	593.9	593.7	-0.2	0.0
1989	D	574.3	573.2	-1.1	-0.2
1990	C	570.2	576.1	5.9	1.0
1991	C	700.1	706.7	6.6	0.9
	Mean:	487.3	486.8	-0.6	-0.2
	Median:	547.9	550.6	-0.1	0.0
	Min:	127.1	126.9	-18.0	-3.6
	Max:	700.1	706.7	6.6	1.0
	# Years Rel Diff <= -10%				0
	# Years Rel Diff >= 10%				0

**West Canal at the mouth of CCF (SWP Banks) Salinity**

January					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	499.3	492.7	-6.6	-1.3
1976	C	584.2	561.3	-23.0	-3.9
1977	C	669.8	669.7	-0.1	0.0
1978	AN	562.2	560.4	-1.9	-0.3
1979	BN	430.1	430.6	0.5	0.1
1980	AN	270.5	265.4	-5.2	-1.9
1981	D	409.6	405.4	-4.2	-1.0
1982	W	334.2	334.2	0.1	0.0
1983	W	131.3	131.4	0.1	0.1
1984	W	138.7	138.9	0.2	0.1
1985	D	276.5	270.9	-5.6	-2.0
1986	W	427.1	430.4	3.3	0.8
1987	D	502.3	503.7	1.4	0.3
1988	C	549.7	547.3	-2.4	-0.4
1989	D	555.9	554.7	-1.3	-0.2
1990	C	794.6	782.4	-12.2	-1.5
1991	C	647.9	650.4	2.5	0.4
Mean:		457.9	454.7	-3.2	-0.6
Median:		499.3	492.7	-1.3	-0.2
Min:		131.3	131.4	-23.0	-3.9
Max:		794.6	782.4	3.3	0.8
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**West Canal at the mouth of CCF (SWP Banks) Salinity**

<b>February</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>EC (umhos/cm)</b>	<b>EC (umhos/cm)</b>		
1975	W	468.0	453.9	-14.2	-3.0
1976	C	659.6	643.9	-15.7	-2.4
1977	C	690.9	689.3	-1.5	-0.2
1978	AN	382.5	382.6	0.1	0.0
1979	BN	287.1	287.0	0.0	0.0
1980	AN	140.7	140.7	0.0	0.0
1981	D	353.5	340.2	-13.4	-3.8
1982	W	236.6	236.6	0.0	0.0
1983	W	117.2	117.2	0.0	0.0
1984	W	234.0	234.0	0.0	0.0
1985	D	398.0	384.7	-13.3	-3.3
1986	W	282.9	284.8	1.9	0.7
1987	D	581.2	581.9	0.7	0.1
1988	C	366.2	366.1	-0.1	0.0
1989	D	510.6	509.5	-1.1	-0.2
1990	C	646.5	578.3	-68.2	-10.5
1991	C	659.7	661.1	1.5	0.2
Mean:		412.6	405.4	-7.3	-1.3
Median:		382.5	382.6	0.0	0.0
Min:		117.2	117.2	-68.2	-10.5
Max:		690.9	689.3	1.9	0.7
# Years Rel Diff <= -10%					1
# Years Rel Diff >= 10%					0

**West Canal at the mouth of CCF (SWP Banks) Salinity**

<b>March</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>EC (umhos/cm)</b>	<b>EC (umhos/cm)</b>		
1975	W	280.1	279.6	-0.5	-0.2
1976	C	501.5	496.5	-5.0	-1.0
1977	C	700.0	697.8	-2.2	-0.3
1978	AN	366.4	366.4	-0.1	0.0
1979	BN	285.5	285.4	-0.1	0.0
1980	AN	243.3	243.1	-0.2	-0.1
1981	D	302.3	301.6	-0.7	-0.2
1982	W	268.5	268.5	0.0	0.0
1983	W	145.5	145.4	-0.1	-0.1
1984	W	271.4	271.5	0.1	0.0
1985	D	402.2	397.2	-5.0	-1.2
1986	W	178.6	178.5	-0.1	-0.1
1987	D	456.1	457.6	1.4	0.3
1988	C	353.5	353.7	0.2	0.1
1989	D	354.2	355.4	1.2	0.3
1990	C	432.9	406.6	-26.4	-6.1
1991	C	494.8	495.0	0.2	0.0
Mean:		355.1	352.9	-2.2	-0.5
Median:		353.5	353.7	-0.1	-0.1
Min:		145.5	145.4	-26.4	-6.1
Max:		700.0	697.8	1.4	0.3
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0



**West Canal at the mouth of CCF (SWP Banks) Salinity**

April					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	271.7	271.7	0.0	0.0
1976	C	412.4	411.2	-1.2	-0.3
1977	C	661.9	660.3	-1.5	-0.2
1978	AN	242.1	242.1	0.0	0.0
1979	BN	293.8	293.7	-0.1	0.0
1980	AN	272.2	272.1	0.0	0.0
1981	D	320.6	323.1	2.6	0.8
1982	W	167.8	167.8	0.0	0.0
1983	W	168.0	167.4	-0.7	-0.4
1984	W	300.9	301.3	0.4	0.1
1985	D	388.3	389.7	1.4	0.4
1986	W	247.9	247.9	0.0	0.0
1987	D	370.2	371.5	1.3	0.4
1988	C	387.7	388.7	1.0	0.3
1989	D	250.7	252.2	1.4	0.6
1990	C	380.4	368.9	-11.5	-3.0
1991	C	367.7	367.8	0.1	0.0
Mean:		323.8	323.4	-0.4	-0.1
Median:		300.9	301.3	0.0	0.0
Min:		167.8	167.4	-11.5	-3.0
Max:		661.9	660.3	2.6	0.8
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**West Canal at the mouth of CCF (SWP Banks) Salinity**

<b>May</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>EC (umhos/cm)</b>	<b>EC (umhos/cm)</b>		
1975	W	295.8	295.8	0.0	0.0
1976	C	426.5	425.4	-1.1	-0.3
1977	C	601.2	600.5	-0.8	-0.1
1978	AN	244.9	244.9	0.0	0.0
1979	BN	303.1	303.0	-0.1	0.0
1980	AN	283.5	283.5	0.0	0.0
1981	D	360.7	361.0	0.3	0.1
1982	W	186.1	186.1	0.0	0.0
1983	W	169.2	169.2	0.0	0.0
1984	W	343.2	343.2	0.0	0.0
1985	D	399.6	400.7	1.1	0.3
1986	W	276.5	276.6	0.1	0.0
1987	D	365.8	366.8	1.0	0.3
1988	C	399.9	401.0	1.1	0.3
1989	D	298.7	299.2	0.5	0.2
1990	C	393.9	386.5	-7.3	-1.9
1991	C	362.9	362.8	-0.2	-0.1
Mean:		336.0	335.7	-0.3	-0.1
Median:		343.2	343.2	0.0	0.0
Min:		169.2	169.2	-7.3	-1.9
Max:		601.2	600.5	1.1	0.3
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**West Canal at the mouth of CCF (SWP Banks) Salinity**

June					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	277.8	277.8	0.0	0.0
1976	C	512.6	501.6	-10.9	-2.1
1977	C	571.6	573.1	1.5	0.3
1978	AN	257.5	257.5	0.0	0.0
1979	BN	289.8	290.9	1.1	0.4
1980	AN	293.9	294.4	0.4	0.1
1981	D	350.2	343.3	-7.0	-2.0
1982	W	248.2	248.2	0.0	0.0
1983	W	132.4	132.4	0.0	0.0
1984	W	328.9	332.0	3.1	0.9
1985	D	349.0	350.3	1.3	0.4
1986	W	290.9	291.0	0.1	0.0
1987	D	395.5	398.5	3.1	0.8
1988	C	426.0	431.9	5.9	1.4
1989	D	342.2	342.3	0.1	0.0
1990	C	415.4	409.4	-6.0	-1.4
1991	C	369.8	366.8	-3.0	-0.8
Mean:		344.2	343.6	-0.6	-0.1
Median:		342.2	342.3	0.1	0.0
Min:		132.4	132.4	-10.9	-2.1
Max:		571.6	573.1	5.9	1.4
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**West Canal at the mouth of CCF (SWP Banks) Salinity**

July					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	228.5	230.1	1.6	0.7
1976	C	479.6	466.3	-13.2	-2.8
1977	C	539.0	523.1	-15.9	-3.0
1978	AN	236.8	237.9	1.1	0.5
1979	BN	257.1	259.6	2.5	1.0
1980	AN	253.4	257.0	3.7	1.5
1981	D	386.3	396.2	9.9	2.6
1982	W	241.1	243.2	2.0	0.8
1983	W	184.0	183.9	0.0	0.0
1984	W	257.2	263.2	6.0	2.3
1985	D	405.3	407.7	2.3	0.6
1986	W	260.3	262.4	2.2	0.8
1987	D	371.0	366.4	-4.7	-1.3
1988	C	420.8	412.4	-8.3	-2.0
1989	D	346.3	359.5	13.1	3.8
1990	C	512.2	476.4	-35.9	-7.0
1991	C	489.9	464.4	-25.5	-5.2
Mean:		345.2	341.7	-3.5	-0.4
Median:		346.3	359.5	1.6	0.6
Min:		184.0	183.9	-35.9	-7.0
Max:		539.0	523.1	13.1	3.8
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**West Canal at the mouth of CCF (SWP Banks) Salinity**

<b>August</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>EC (umhos/cm)</b>	<b>EC (umhos/cm)</b>		
1975	W	292.9	292.1	-0.7	-0.2
1976	C	436.0	422.8	-13.1	-3.0
1977	C	598.4	593.8	-4.6	-0.8
1978	AN	304.1	319.5	15.4	5.1
1979	BN	390.3	413.8	23.5	6.0
1980	AN	287.0	295.8	8.8	3.1
1981	D	528.3	565.9	37.6	7.1
1982	W	283.5	280.5	-3.0	-1.1
1983	W	192.7	193.3	0.6	0.3
1984	W	277.4	277.5	0.1	0.0
1985	D	579.5	581.0	1.5	0.3
1986	W	304.4	301.6	-2.8	-0.9
1987	D	519.4	551.5	32.2	6.2
1988	C	583.5	587.5	4.0	0.7
1989	D	498.7	545.3	46.6	9.3
1990	C	690.1	672.4	-17.7	-2.6
1991	C	746.3	736.0	-10.4	-1.4
Mean:		441.9	448.8	6.9	1.7
Median:		436.0	422.8	0.6	0.3
Min:		192.7	193.3	-17.7	-3.0
Max:		746.3	736.0	46.6	9.3
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**West Canal at the mouth of CCF (SWP Banks) Salinity**

**September**

Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	392.3	394.3	2.0	0.5
1976	C	616.1	605.1	-11.0	-1.8
1977	C	711.6	706.1	-5.5	-0.8
1978	AN	501.2	574.9	73.7	14.7
1979	BN	592.6	649.0	56.4	9.5
1980	AN	427.8	432.9	5.1	1.2
1981	D	656.3	672.2	16.0	2.4
1982	W	390.0	385.4	-4.5	-1.2
1983	W	237.6	238.0	0.4	0.2
1984	W	510.6	510.1	-0.5	-0.1
1985	D	663.0	663.0	0.1	0.0
1986	W	422.2	422.3	0.0	0.0
1987	D	689.6	705.6	16.1	2.3
1988	C	627.3	623.7	-3.7	-0.6
1989	D	597.8	623.6	25.8	4.3
1990	C	634.3	651.2	16.9	2.7
1991	C	645.2	659.6	14.4	2.2
Mean:		548.0	559.8	11.9	2.1
Median:		597.8	623.6	2.0	0.5
Min:		237.6	238.0	-11.0	-1.8
Max:		711.6	706.1	73.7	14.7
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					1

Long-term and Water Year Type Average Salinity at the Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) under CEQA Existing Condition and CEQA No Project Alternative Conditions

Analysis Period	EC (umhos/cm)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Long-term</b>												
<b>Full Simulation Period<sup>2</sup></b>												
CEQA Existing Condition	565.7	508.0	512.3	482.7	457.1	447.2	368.5	353.6	375.0	379.3	490.0	606.5
CEQA No Project Alternative	571.4	509.6	511.8	480.2	452.2	446.1	368.4	353.3	369.6	376.2	497.3	615.9
Difference	5.7	1.6	-0.5	-2.5	-4.9	-1.1	-0.1	-0.3	-5.4	-3.1	7.3	9.4
Percent Difference <sup>3</sup>	1.0	0.3	-0.1	-0.5	-1.1	-0.3	0.0	-0.1	-1.4	-0.8	1.5	1.6
<b>Water Year Types<sup>1</sup></b>												
<b>Wet</b>												
CEQA Existing Condition	380.1	352.9	367.4	346.9	253.7	255.7	241.7	266.3	297.6	277.7	343.2	473.5
CEQA No Project Alternative	381.0	353.2	367.5	346.4	252.5	255.7	241.7	266.3	298.1	282.5	342.8	473.3
Difference	0.9	0.3	0.1	-0.5	-1.2	0.0	0.0	0.0	0.5	4.7	-0.5	-0.2
Percent Difference	0.2	0.1	0.0	-0.2	-0.5	0.0	0.0	0.0	0.2	1.7	-0.1	0.0
<b>Above Normal</b>												
CEQA Existing Condition	773.2	632.9	552.4	349.9	234.7	285.8	248.3	266.9	291.2	290.3	342.9	519.9
CEQA No Project Alternative	792.5	639.8	549.8	348.7	234.8	285.6	248.3	266.9	291.4	292.4	355.5	552.0
Difference	19.3	6.9	-2.6	-1.3	0.1	-0.2	0.0	0.0	0.2	2.0	12.6	32.1
Percent Difference	2.5	1.1	-0.5	-0.4	0.1	-0.1	0.0	0.0	0.1	0.7	3.7	6.2
<b>Below Normal</b>												
CEQA Existing Condition	534.7	515.4	562.8	399.1	253.5	292.6	298.3	314.2	321.3	288.2	426.6	645.5
CEQA No Project Alternative	558.8	521.3	564.6	399.3	253.4	292.6	298.3	314.1	322.8	290.9	450.4	696.8
Difference	24.1	5.9	1.8	0.1	0.0	0.0	0.0	0.0	1.6	2.7	23.8	51.4
Percent Difference	4.5	1.1	0.3	0.0	0.0	0.0	0.0	0.0	0.5	0.9	5.6	8.0
<b>Dry</b>												
CEQA Existing Condition	600.9	592.6	539.0	501.2	570.7	497.2	400.2	390.2	379.5	407.7	555.8	709.6
CEQA No Project Alternative	601.6	591.9	538.9	499.3	566.5	497.2	401.2	390.4	373.3	413.9	583.3	721.4
Difference	0.6	-0.7	0.0	-1.9	-4.2	-0.1	1.1	0.3	-6.2	6.3	27.5	11.8
Percent Difference	0.1	-0.1	0.0	-0.4	-0.7	0.0	0.3	0.1	-1.6	1.5	4.9	1.7
<b>Critical</b>												
CEQA Existing Condition	646.4	543.9	609.8	673.4	699.2	694.3	531.9	454.2	493.0	512.0	655.6	684.0
CEQA No Project Alternative	651.6	545.8	608.7	667.4	687.1	690.6	530.9	453.0	478.7	490.5	649.0	683.7
Difference	5.3	1.8	-1.2	-6.0	-12.1	-3.7	-1.0	-1.2	-14.3	-21.5	-6.6	-0.3
Percent Difference	0.8	0.3	-0.2	-0.9	-1.7	-0.5	-0.2	-0.3	-2.9	-4.2	-1.0	0.0

1 As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB 1995)

2 Based on the 17-year simulation period

3 Relative difference of the monthly average

**Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) Salinity**

<b>October</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>EC (umhos/cm)</b>	<b>EC (umhos/cm)</b>		
1975	W	139.3	139.3	0.0	0.0
1976	C	311.5	312.4	0.8	0.3
1977	C	750.6	744.2	-6.5	-0.9
1978	AN	853.4	846.5	-6.9	-0.8
1979	BN	534.7	558.8	24.1	4.5
1980	AN	693.1	738.5	45.5	6.6
1981	D	469.4	474.0	4.6	1.0
1982	W	680.3	684.7	4.4	0.6
1983	W	213.9	213.9	0.0	0.0
1984	W	210.5	210.4	-0.1	0.0
1985	D	667.1	668.8	1.7	0.3
1986	W	656.5	656.7	0.3	0.0
1987	D	524.9	528.6	3.7	0.7
1988	C	762.5	766.5	3.9	0.5
1989	D	742.4	734.9	-7.5	-1.0
1990	C	657.3	665.9	8.6	1.3
1991	C	749.7	769.1	19.4	2.6
Mean:		565.7	571.4	5.6	0.9
Median:		657.3	665.9	1.7	0.3
Min:		139.3	139.3	-7.5	-1.0
Max:		853.4	846.5	45.5	6.6
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0



### Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) Salinity

November					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	331.7	332.4	0.6	0.2
1976	C	307.1	304.8	-2.4	-0.8
1977	C	583.7	582.3	-1.5	-0.3
1978	AN	737.6	735.1	-2.4	-0.3
1979	BN	515.4	521.2	5.9	1.1
1980	AN	528.2	544.5	16.2	3.1
1981	D	496.7	498.4	1.7	0.3
1982	W	457.4	457.8	0.4	0.1
1983	W	257.1	257.2	0.0	0.0
1984	W	179.7	179.7	0.0	0.0
1985	D	617.3	610.4	-6.9	-1.1
1986	W	538.6	539.0	0.4	0.1
1987	D	546.5	551.6	5.0	0.9
1988	C	557.9	559.2	1.3	0.2
1989	D	709.9	707.3	-2.6	-0.4
1990	C	525.5	526.9	1.5	0.3
1991	C	745.4	755.7	10.2	1.4
Mean:		508.0	509.6	1.6	0.3
Median:		528.2	539.0	0.4	0.1
Min:		179.7	179.7	-6.9	-1.1
Max:		745.4	755.7	16.2	3.1
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) Salinity**

<b>December</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>EC (umhos/cm)</b>	<b>EC (umhos/cm)</b>		
1975	W	547.9	548.5	0.5	0.1
1976	C	532.9	519.7	-13.1	-2.5
1977	C	626.6	626.7	0.1	0.0
1978	AN	630.5	629.0	-1.5	-0.2
1979	BN	562.8	564.6	1.8	0.3
1980	AN	474.2	470.5	-3.6	-0.8
1981	D	576.5	577.4	0.8	0.1
1982	W	406.7	406.8	0.0	0.0
1983	W	137.8	137.8	0.0	0.0
1984	W	158.6	158.6	0.0	0.0
1985	D	401.1	397.9	-3.2	-0.8
1986	W	586.1	585.8	-0.3	-0.1
1987	D	594.7	597.7	3.0	0.5
1988	C	625.6	625.4	-0.2	0.0
1989	D	583.6	582.8	-0.8	-0.1
1990	C	607.1	612.2	5.1	0.8
1991	C	656.9	659.3	2.3	0.4
Mean:		512.3	511.8	-0.5	-0.1
Median:		576.5	577.4	0.0	0.0
Min:		137.8	137.8	-13.1	-2.5
Max:		656.9	659.3	5.1	0.8
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) Salinity**

<b>January</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>EC (umhos/cm)</b>	<b>EC (umhos/cm)</b>		
1975	W	547.1	541.8	-5.3	-1.0
1976	C	609.3	593.2	-16.1	-2.6
1977	C	700.3	700.4	0.1	0.0
1978	AN	496.1	495.0	-1.1	-0.2
1979	BN	399.1	399.3	0.1	0.0
1980	AN	203.8	202.4	-1.4	-0.7
1981	D	467.1	463.8	-3.3	-0.7
1982	W	336.0	336.1	0.1	0.0
1983	W	206.6	206.6	0.0	0.0
1984	W	148.5	148.6	0.0	0.0
1985	D	395.0	390.8	-4.1	-1.0
1986	W	496.2	498.7	2.5	0.5
1987	D	552.4	553.3	0.9	0.2
1988	C	592.5	590.8	-1.7	-0.3
1989	D	590.3	589.3	-1.0	-0.2
1990	C	776.9	764.2	-12.7	-1.6
1991	C	687.9	688.4	0.5	0.1
Mean:		482.7	480.2	-2.5	-0.4
Median:		496.2	498.7	-1.0	-0.2
Min:		148.5	148.6	-16.1	-2.6
Max:		776.9	764.2	2.5	0.5
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) Salinity**

<b>February</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>EC (umhos/cm)</b>	<b>EC (umhos/cm)</b>		
1975	W	409.5	402.9	-6.5	-1.6
1976	C	689.1	679.0	-10.1	-1.5
1977	C	856.2	855.9	-0.3	0.0
1978	AN	309.3	309.6	0.3	0.1
1979	BN	253.5	253.4	0.0	0.0
1980	AN	160.1	160.1	0.0	0.0
1981	D	447.0	438.8	-8.3	-1.9
1982	W	200.3	200.3	0.0	0.0
1983	W	151.9	152.0	0.1	0.1
1984	W	237.5	237.4	0.0	0.0
1985	D	512.9	504.2	-8.6	-1.7
1986	W	269.4	270.0	0.6	0.2
1987	D	640.7	641.2	0.5	0.1
1988	C	466.4	466.5	0.1	0.0
1989	D	682.3	681.8	-0.5	-0.1
1990	C	672.0	621.5	-50.5	-7.5
1991	C	812.2	812.5	0.3	0.0
Mean:		457.1	452.2	-4.9	-0.8
Median:		447.0	438.8	0.0	0.0
Min:		151.9	152.0	-50.5	-7.5
Max:		856.2	855.9	0.6	0.2
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) Salinity**

<b>March</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>EC (umhos/cm)</b>	<b>EC (umhos/cm)</b>		
1975	W	290.2	290.0	-0.2	-0.1
1976	C	597.4	594.4	-3.0	-0.5
1977	C	920.2	919.5	-0.7	-0.1
1978	AN	349.5	349.3	-0.2	-0.1
1979	BN	292.6	292.6	0.0	0.0
1980	AN	222.0	221.9	-0.1	0.0
1981	D	393.3	393.3	0.0	0.0
1982	W	259.2	259.3	0.1	0.0
1983	W	207.5	207.4	-0.1	0.0
1984	W	329.3	329.4	0.0	0.0
1985	D	544.5	542.2	-2.2	-0.4
1986	W	192.2	192.1	-0.1	-0.1
1987	D	576.8	577.7	0.9	0.2
1988	C	839.0	839.1	0.2	0.0
1989	D	474.3	475.3	1.1	0.2
1990	C	584.2	569.1	-15.1	-2.6
1991	C	530.7	530.9	0.1	0.0
Mean:		447.2	446.1	-1.1	-0.2
Median:		393.3	393.3	-0.1	0.0
Min:		192.2	192.1	-15.1	-2.6
Max:		920.2	919.5	1.1	0.2
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) Salinity**

<b>April</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>EC (umhos/cm)</b>	<b>EC (umhos/cm)</b>		
1975	W	287.1	287.1	0.0	0.0
1976	C	495.8	495.3	-0.5	-0.1
1977	C	693.3	692.8	-0.5	-0.1
1978	AN	224.3	224.3	0.0	0.0
1979	BN	298.3	298.3	-0.1	0.0
1980	AN	272.3	272.3	0.0	0.0
1981	D	372.6	373.7	1.2	0.3
1982	W	164.5	164.5	0.0	0.0
1983	W	185.1	184.8	-0.3	-0.2
1984	W	340.3	340.4	0.2	0.1
1985	D	453.3	454.6	1.3	0.3
1986	W	231.7	231.7	0.0	0.0
1987	D	440.9	441.8	0.9	0.2
1988	C	509.6	510.6	1.0	0.2
1989	D	333.8	334.7	0.9	0.3
1990	C	532.4	527.6	-4.8	-0.9
1991	C	428.3	428.3	0.0	0.0
Mean:		368.4	368.4	0.0	0.0
Median:		340.3	340.4	0.0	0.0
Min:		164.5	164.5	-4.8	-0.9
Max:		693.3	692.8	1.3	0.3
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) Salinity**

<b>May</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>EC (umhos/cm)</b>	<b>EC (umhos/cm)</b>		
1975	W	308.7	308.7	0.0	0.0
1976	C	464.8	463.0	-1.8	-0.4
1977	C	563.2	563.6	0.4	0.1
1978	AN	229.2	229.2	0.0	0.0
1979	BN	314.2	314.1	0.0	0.0
1980	AN	304.6	304.6	0.0	0.0
1981	D	383.3	383.2	-0.1	0.0
1982	W	198.6	198.6	0.0	0.0
1983	W	177.9	177.9	0.0	0.0
1984	W	358.0	357.9	0.0	0.0
1985	D	426.6	427.1	0.5	0.1
1986	W	288.6	288.6	0.0	0.0
1987	D	414.5	414.8	0.3	0.1
1988	C	445.4	446.1	0.7	0.2
1989	D	336.4	336.7	0.3	0.1
1990	C	418.0	413.4	-4.6	-1.1
1991	C	379.7	379.2	-0.5	-0.1
Mean:		353.6	353.3	-0.3	-0.1
Median:		358.0	357.9	0.0	0.0
Min:		177.9	177.9	-4.6	-1.1
Max:		563.2	563.6	0.7	0.2
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) Salinity**

<b>June</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>EC (umhos/cm)</b>	<b>EC (umhos/cm)</b>		
1975	W	349.0	349.0	0.0	0.0
1976	C	533.8	519.6	-14.2	-2.7
1977	C	592.8	584.6	-8.2	-1.4
1978	AN	245.9	245.9	0.0	0.0
1979	BN	321.2	322.8	1.6	0.5
1980	AN	336.5	337.0	0.5	0.1
1981	D	357.2	349.9	-7.3	-2.0
1982	W	278.5	278.5	0.0	0.0
1983	W	144.7	144.7	0.0	0.0
1984	W	376.5	379.0	2.5	0.7
1985	D	356.7	358.4	1.6	0.4
1986	W	339.1	339.2	0.0	0.0
1987	D	453.2	434.2	-19.0	-4.2
1988	C	484.7	474.7	-10.0	-2.1
1989	D	350.7	350.8	0.0	0.0
1990	C	457.7	434.8	-22.9	-5.0
1991	C	395.9	379.8	-16.2	-4.1
Mean:		375.0	369.6	-5.4	-1.2
Median:		356.7	350.8	0.0	0.0
Min:		144.7	144.7	-22.9	-5.0
Max:		592.8	584.6	2.5	0.7
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0



**Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) Salinity**

<b>July</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>EC (umhos/cm)</b>	<b>EC (umhos/cm)</b>		
1975	W	271.0	272.7	1.7	0.6
1976	C	520.4	506.3	-14.1	-2.7
1977	C	541.8	524.2	-17.7	-3.3
1978	AN	279.4	280.3	1.0	0.4
1979	BN	288.2	290.9	2.7	0.9
1980	AN	301.3	304.4	3.1	1.0
1981	D	415.4	426.9	11.5	2.8
1982	W	301.9	303.6	1.7	0.6
1983	W	193.9	193.9	0.0	0.0
1984	W	310.3	314.6	4.4	1.4
1985	D	433.3	435.3	2.1	0.5
1986	W	311.6	327.5	15.9	5.1
1987	D	415.9	412.2	-3.7	-0.9
1988	C	434.3	424.3	-10.0	-2.3
1989	D	366.1	381.3	15.2	4.2
1990	C	541.2	502.4	-38.9	-7.2
1991	C	522.1	495.3	-26.8	-5.1
Mean:		379.3	376.2	-3.1	-0.2
Median:		366.1	381.3	1.7	0.5
Min:		193.9	193.9	-38.9	-7.2
Max:		541.8	524.2	15.9	5.1
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) Salinity**

<b>August</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>EC (umhos/cm)</b>	<b>EC (umhos/cm)</b>		
1975	W	344.8	344.8	0.0	0.0
1976	C	496.0	482.7	-13.2	-2.7
1977	C	659.0	651.3	-7.7	-1.2
1978	AN	352.4	369.1	16.7	4.7
1979	BN	426.6	450.4	23.8	5.6
1980	AN	333.5	341.8	8.4	2.5
1981	D	546.8	581.2	34.4	6.3
1982	W	345.4	343.4	-2.0	-0.6
1983	W	322.8	323.5	0.7	0.2
1984	W	343.9	344.4	0.6	0.2
1985	D	593.1	594.5	1.4	0.2
1986	W	359.3	357.7	-1.6	-0.4
1987	D	564.0	591.6	27.6	4.9
1988	C	671.8	669.5	-2.3	-0.3
1989	D	519.3	565.9	46.6	9.0
1990	C	702.1	693.7	-8.3	-1.2
1991	C	749.2	747.7	-1.5	-0.2
Mean:		490.0	497.3	7.3	1.6
Median:		496.0	482.7	0.6	0.2
Min:		322.8	323.5	-13.2	-2.7
Max:		749.2	747.7	46.6	9.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) Salinity**

**September**

Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	456.0	457.8	1.7	0.4
1976	C	696.0	685.8	-10.2	-1.5
1977	C	770.1	762.0	-8.2	-1.1
1978	AN	553.6	613.6	60.0	10.8
1979	BN	645.5	696.8	51.4	8.0
1980	AN	486.2	490.4	4.2	0.9
1981	D	697.2	710.7	13.4	1.9
1982	W	461.9	459.2	-2.7	-0.6
1983	W	349.9	349.9	0.0	0.0
1984	W	592.7	592.3	-0.4	-0.1
1985	D	709.5	709.4	-0.1	0.0
1986	W	506.7	507.0	0.3	0.1
1987	D	745.6	758.4	12.8	1.7
1988	C	649.1	640.4	-8.8	-1.4
1989	D	685.9	707.1	21.2	3.1
1990	C	663.6	680.9	17.3	2.6
1991	C	641.0	649.3	8.3	1.3
Mean:		606.5	615.9	9.4	1.5
Median:		645.5	649.3	1.7	0.4
Min:		349.9	349.9	-10.2	-1.5
Max:		770.1	762.0	60.0	10.8
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					1

**Long-term and Water Year Type Average Salinity at Victoria Canal under CEQA Existing Condition and CEQA No Project Alternative Conditions**

Analysis Period	EC (umhos/cm)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Long-term</b>												
<b>Full Simulation Period<sup>2</sup></b>												
CEQA Existing Condition	467.3	442.4	411.0	410.7	401.5	366.0	345.7	385.2	377.2	317.6	360.4	430.5
CEQA No Project Alternative	470.3	443.5	410.6	408.9	396.4	364.6	345.7	385.1	373.3	315.1	364.7	436.8
Difference	3.1	1.1	-0.4	-1.8	-5.1	-1.4	0.0	-0.1	-3.9	-2.6	4.3	6.3
Percent Difference <sup>3</sup>	0.7	0.2	-0.1	-0.4	-1.3	-0.4	0.0	0.0	-1.0	-0.8	1.2	1.5
<b>Water Year Types<sup>1</sup></b>												
<b>Wet</b>												
CEQA Existing Condition	366.6	343.1	291.9	298.5	278.5	261.6	248.9	279.7	280.2	254.5	257.2	347.7
CEQA No Project Alternative	367.3	343.4	292.0	298.3	277.3	261.7	249.0	279.8	281.1	258.9	258.3	347.9
Difference	0.7	0.3	0.1	-0.3	-1.2	0.0	0.0	0.0	0.9	4.4	1.1	0.2
Percent Difference	0.2	0.1	0.0	-0.1	-0.4	0.0	0.0	0.0	0.3	1.7	0.4	0.1
<b>Above Normal</b>												
CEQA Existing Condition	590.5	535.2	430.6	411.0	318.9	336.8	287.9	294.4	296.6	266.1	269.4	375.3
CEQA No Project Alternative	600.0	539.6	429.2	408.9	318.9	336.8	287.9	294.4	296.8	268.6	275.7	394.5
Difference	9.5	4.4	-1.4	-2.1	0.0	0.0	0.0	0.0	0.2	2.5	6.3	19.2
Percent Difference	1.6	0.8	-0.3	-0.5	0.0	0.0	0.0	0.0	0.1	0.9	2.3	5.1
<b>Below Normal</b>												
CEQA Existing Condition	397.5	408.2	467.4	386.9	309.3	294.0	311.4	336.8	321.7	260.6	319.8	444.6
CEQA No Project Alternative	406.4	410.0	468.7	387.2	309.3	293.9	311.3	336.7	322.9	262.3	331.5	474.4
Difference	8.9	1.7	1.3	0.3	0.0	-0.1	0.0	0.0	1.2	1.7	11.7	29.8
Percent Difference	2.2	0.4	0.3	0.1	0.0	0.0	0.0	0.0	0.4	0.7	3.7	6.7
<b>Dry</b>												
CEQA Existing Condition	479.7	486.9	441.6	383.6	436.3	397.9	385.0	443.9	406.8	322.5	395.6	475.1
CEQA No Project Alternative	480.5	486.7	441.7	382.4	431.5	398.2	387.0	444.1	402.3	323.5	413.7	484.0
Difference	0.8	-0.1	0.1	-1.2	-4.8	0.3	2.0	0.3	-4.4	1.0	18.1	8.9
Percent Difference	0.2	0.0	0.0	-0.3	-1.1	0.1	0.5	0.1	-1.1	0.3	4.6	1.9
<b>Critical</b>												
CEQA Existing Condition	522.6	475.9	486.4	549.0	548.2	470.9	440.8	489.8	494.0	408.9	479.9	497.0
CEQA No Project Alternative	526.1	477.3	485.2	545.1	535.9	465.9	439.3	489.3	483.0	393.6	474.2	497.4
Difference	3.5	1.4	-1.2	-4.0	-12.3	-5.0	-1.6	-0.5	-11.0	-15.3	-5.8	0.4
Percent Difference	0.7	0.3	-0.2	-0.7	-2.2	-1.1	-0.4	-0.1	-2.2	-3.7	-1.2	0.1

1 As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB 1995)

2 Based on the 17-year simulation period

3 Relative difference of the monthly average

### Victoria Canal Salinity

#### October

Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	198.3	198.3	0.0	0.0
1976	C	354.9	355.1	0.3	0.1
1977	C	552.5	549.5	-3.1	-0.6
1978	AN	652.1	648.0	-4.1	-0.6
1979	BN	397.5	406.4	8.9	2.2
1980	AN	529.0	552.1	23.1	4.4
1981	D	367.3	368.5	1.2	0.3
1982	W	555.4	557.7	2.3	0.4
1983	W	264.8	264.8	0.0	0.0
1984	W	275.8	275.7	-0.1	0.0
1985	D	514.4	516.2	1.8	0.3
1986	W	538.7	539.8	1.2	0.2
1987	D	424.9	430.1	5.3	1.2
1988	C	609.6	613.1	3.6	0.6
1989	D	612.2	607.2	-5.0	-0.8
1990	C	523.7	528.1	4.4	0.8
1991	C	572.2	584.8	12.5	2.2
Mean:		467.2	470.3	3.1	0.6
Median:		523.7	528.1	1.2	0.3
Min:		198.3	198.3	-5.0	-0.8
Max:		652.1	648.0	23.1	4.4
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### Victoria Canal Salinity

November					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	344.0	344.2	0.2	0.1
1976	C	322.9	322.3	-0.6	-0.2
1977	C	455.3	454.7	-0.6	-0.1
1978	AN	620.9	619.6	-1.3	-0.2
1979	BN	408.2	410.0	1.7	0.4
1980	AN	449.6	459.6	10.0	2.2
1981	D	400.1	400.7	0.5	0.1
1982	W	451.5	451.6	0.1	0.0
1983	W	244.5	244.5	0.0	0.0
1984	W	178.2	178.2	0.0	0.0
1985	D	511.9	508.9	-3.0	-0.6
1986	W	497.3	498.3	1.0	0.2
1987	D	441.2	444.5	3.3	0.7
1988	C	507.0	508.5	1.5	0.3
1989	D	594.2	592.7	-1.5	-0.3
1990	C	469.8	469.8	0.1	0.0
1991	C	624.3	631.0	6.6	1.1
Mean:		442.4	443.5	1.1	0.2
Median:		451.5	454.7	0.1	0.0
Min:		178.2	178.2	-3.0	-0.6
Max:		624.3	631.0	10.0	2.2
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### Victoria Canal Salinity

December					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	420.0	420.5	0.4	0.1
1976	C	397.4	387.4	-10.0	-2.5
1977	C	516.3	515.9	-0.4	-0.1
1978	AN	497.6	496.6	-1.0	-0.2
1979	BN	467.4	468.7	1.3	0.3
1980	AN	363.6	361.8	-1.8	-0.5
1981	D	465.0	465.7	0.7	0.2
1982	W	292.3	292.5	0.1	0.0
1983	W	178.9	178.9	0.0	0.0
1984	W	128.4	128.4	-0.1	-0.1
1985	D	322.7	319.6	-3.1	-1.0
1986	W	440.0	440.0	0.0	0.0
1987	D	491.7	495.1	3.4	0.7
1988	C	462.8	463.0	0.2	0.0
1989	D	487.1	486.5	-0.6	-0.1
1990	C	448.0	449.9	1.9	0.4
1991	C	607.7	609.9	2.2	0.4
Mean:		411.0	410.6	-0.4	-0.1
Median:		448.0	449.9	0.0	0.0
Min:		128.4	128.4	-10.0	-2.5
Max:		607.7	609.9	3.4	0.7
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### Victoria Canal Salinity

#### January

Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	411.1	407.6	-3.4	-0.8
1976	C	468.2	452.9	-15.3	-3.3
1977	C	577.9	579.1	1.1	0.2
1978	AN	532.4	531.1	-1.2	-0.2
1979	BN	386.9	387.2	0.3	0.1
1980	AN	289.7	286.7	-3.0	-1.0
1981	D	368.4	366.2	-2.1	-0.6
1982	W	364.5	364.6	0.1	0.0
1983	W	156.7	156.6	-0.1	-0.1
1984	W	171.2	171.5	0.3	0.2
1985	D	276.7	273.6	-3.1	-1.1
1986	W	389.3	391.1	1.8	0.5
1987	D	424.4	425.6	1.2	0.3
1988	C	481.8	480.0	-1.8	-0.4
1989	D	465.1	464.3	-0.8	-0.2
1990	C	609.5	604.7	-4.8	-0.8
1991	C	607.8	608.8	1.0	0.2
Mean:		410.7	408.9	-1.8	-0.4
Median:		411.1	407.6	-0.8	-0.2
Min:		156.7	156.6	-15.3	-3.3
Max:		609.5	608.8	1.8	0.5
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0



### Victoria Canal Salinity

#### February

Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	418.5	411.2	-7.4	-1.8
1976	C	547.0	535.8	-11.2	-2.0
1977	C	632.5	631.4	-1.1	-0.2
1978	AN	414.6	414.7	0.1	0.0
1979	BN	309.3	309.3	0.0	0.0
1980	AN	223.1	223.1	0.0	0.0
1981	D	357.8	347.2	-10.6	-3.0
1982	W	247.7	247.7	0.0	0.0
1983	W	119.4	119.4	0.0	0.0
1984	W	263.6	263.6	0.0	0.0
1985	D	377.6	369.3	-8.3	-2.2
1986	W	343.3	344.4	1.1	0.3
1987	D	507.9	508.8	0.9	0.2
1988	C	366.8	367.5	0.6	0.2
1989	D	502.0	500.9	-1.1	-0.2
1990	C	562.8	512.6	-50.2	-8.9
1991	C	631.8	632.5	0.7	0.1
Mean:		401.5	396.4	-5.1	-1.0
Median:		377.6	369.3	0.0	0.0
Min:		119.4	119.4	-50.2	-8.9
Max:		632.5	632.5	1.1	0.3
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### Victoria Canal Salinity

#### March

Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	285.8	285.7	-0.1	0.0
1976	C	460.6	456.8	-3.8	-0.8
1977	C	631.9	629.9	-2.0	-0.3
1978	AN	418.1	418.1	0.0	0.0
1979	BN	294.0	293.9	-0.1	0.0
1980	AN	255.5	255.5	0.0	0.0
1981	D	351.0	351.5	0.5	0.1
1982	W	317.0	317.0	0.0	0.0
1983	W	159.5	159.5	0.0	0.0
1984	W	296.7	296.9	0.2	0.1
1985	D	418.9	416.1	-2.8	-0.7
1986	W	249.1	249.1	0.0	0.0
1987	D	456.4	459.0	2.7	0.6
1988	C	362.8	364.0	1.2	0.3
1989	D	365.2	366.1	0.9	0.2
1990	C	419.5	398.8	-20.6	-4.9
1991	C	479.8	480.0	0.2	0.0
Mean:		366.0	364.6	-1.4	-0.3
Median:		362.8	364.0	0.0	0.0
Min:		159.5	159.5	-20.6	-4.9
Max:		631.9	629.9	2.7	0.6
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### Victoria Canal Salinity

#### April

Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	288.6	288.6	0.0	0.0
1976	C	419.5	418.7	-0.9	-0.2
1977	C	600.6	599.7	-0.9	-0.1
1978	AN	300.8	300.8	0.0	0.0
1979	BN	311.4	311.3	0.0	0.0
1980	AN	275.0	275.0	0.0	0.0
1981	D	384.0	387.3	3.3	0.9
1982	W	170.0	170.0	0.0	0.0
1983	W	172.5	172.2	-0.3	-0.2
1984	W	352.6	353.2	0.6	0.2
1985	D	443.4	444.9	1.5	0.3
1986	W	260.9	260.9	0.0	0.0
1987	D	420.0	422.0	2.0	0.5
1988	C	419.2	421.3	2.1	0.5
1989	D	292.6	293.8	1.1	0.4
1990	C	389.2	380.9	-8.2	-2.1
1991	C	375.8	375.8	0.0	0.0
Mean:		345.6	345.7	0.0	0.0
Median:		352.6	353.2	0.0	0.0
Min:		170.0	170.0	-8.2	-2.1
Max:		600.6	599.7	3.3	0.9
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### Victoria Canal Salinity

May					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	331.8	331.8	0.0	0.0
1976	C	505.5	504.8	-0.6	-0.1
1977	C	580.9	581.8	0.9	0.2
1978	AN	280.6	280.6	0.0	0.0
1979	BN	336.7	336.7	0.0	0.0
1980	AN	308.3	308.3	0.0	0.0
1981	D	433.2	433.2	0.0	0.0
1982	W	210.6	210.6	0.0	0.0
1983	W	172.2	172.2	0.0	0.0
1984	W	399.3	399.3	0.0	0.0
1985	D	477.7	477.9	0.3	0.1
1986	W	284.7	284.8	0.2	0.1
1987	D	474.8	475.3	0.5	0.1
1988	C	489.1	490.5	1.4	0.3
1989	D	389.8	390.1	0.3	0.1
1990	C	451.1	447.3	-3.9	-0.9
1991	C	422.3	422.1	-0.2	0.0
Mean:		385.2	385.1	-0.1	0.0
Median:		399.3	399.3	0.0	0.0
Min:		172.2	172.2	-3.9	-0.9
Max:		580.9	581.8	1.4	0.3
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### Victoria Canal Salinity

#### June

Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	316.8	316.8	0.0	0.0
1976	C	490.6	481.8	-8.8	-1.8
1977	C	574.3	563.6	-10.7	-1.9
1978	AN	269.9	269.9	0.0	0.0
1979	BN	321.7	322.9	1.2	0.4
1980	AN	323.4	323.8	0.4	0.1
1981	D	381.5	374.8	-6.7	-1.8
1982	W	263.2	263.2	0.0	0.0
1983	W	131.5	131.5	0.0	0.0
1984	W	366.3	370.6	4.2	1.1
1985	D	366.9	369.6	2.7	0.7
1986	W	323.1	323.4	0.2	0.1
1987	D	483.4	469.6	-13.8	-2.9
1988	C	514.5	507.5	-7.0	-1.4
1989	D	395.2	395.3	0.1	0.0
1990	C	476.8	459.8	-17.0	-3.6
1991	C	414.0	402.5	-11.5	-2.8
Mean:		377.2	373.3	-3.9	-0.8
Median:		366.9	370.6	0.0	0.0
Min:		131.5	131.5	-17.0	-3.6
Max:		574.3	563.6	4.2	1.1
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### Victoria Canal Salinity

#### July

Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	254.7	257.0	2.3	0.9
1976	C	398.5	389.5	-9.0	-2.3
1977	C	437.5	421.8	-15.7	-3.6
1978	AN	252.4	254.1	1.7	0.7
1979	BN	260.6	262.3	1.7	0.7
1980	AN	279.8	283.1	3.4	1.2
1981	D	321.5	325.1	3.6	1.1
1982	W	271.8	274.5	2.8	1.0
1983	W	196.5	196.5	-0.1	-0.1
1984	W	277.0	287.4	10.4	3.8
1985	D	330.5	333.1	2.7	0.8
1986	W	272.7	279.3	6.5	2.4
1987	D	340.9	332.2	-8.8	-2.6
1988	C	375.5	365.5	-10.0	-2.7
1989	D	297.0	303.5	6.5	2.2
1990	C	430.5	404.5	-26.0	-6.0
1991	C	402.3	386.5	-15.8	-3.9
Mean:		317.6	315.1	-2.6	-0.4
Median:		297.0	303.5	1.7	0.7
Min:		196.5	196.5	-26.0	-6.0
Max:		437.5	421.8	10.4	3.8
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### Victoria Canal Salinity

August					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	273.9	273.9	0.1	0.0
1976	C	357.2	349.2	-8.0	-2.2
1977	C	477.0	470.3	-6.7	-1.4
1978	AN	276.3	283.1	6.8	2.5
1979	BN	319.8	331.5	11.7	3.7
1980	AN	262.5	268.2	5.7	2.2
1981	D	399.3	421.7	22.4	5.6
1982	W	271.0	273.4	2.3	0.8
1983	W	194.0	195.2	1.2	0.6
1984	W	267.0	269.1	2.1	0.8
1985	D	426.2	427.6	1.3	0.3
1986	W	280.1	279.8	-0.2	-0.1
1987	D	386.5	405.6	19.1	4.9
1988	C	506.0	501.1	-4.8	-0.9
1989	D	370.5	399.9	29.5	8.0
1990	C	521.4	515.2	-6.1	-1.2
1991	C	538.0	535.0	-3.0	-0.6
Mean:		360.4	364.7	4.3	1.4
Median:		357.2	349.2	1.3	0.6
Min:		194.0	195.2	-8.0	-2.2
Max:		538.0	535.0	29.5	8.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### Victoria Canal Salinity

#### September

Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	342.6	343.6	1.0	0.3
1976	C	450.8	444.2	-6.6	-1.5
1977	C	551.7	545.8	-5.9	-1.1
1978	AN	398.4	434.5	36.2	9.1
1979	BN	444.6	474.4	29.8	6.7
1980	AN	352.2	354.5	2.3	0.7
1981	D	478.3	487.8	9.6	2.0
1982	W	356.9	356.1	-0.9	-0.3
1983	W	286.8	287.1	0.3	0.1
1984	W	394.5	394.6	0.1	0.0
1985	D	481.8	481.7	-0.1	0.0
1986	W	357.8	358.3	0.5	0.1
1987	D	497.5	508.0	10.6	2.1
1988	C	517.0	509.5	-7.6	-1.5
1989	D	442.9	458.4	15.5	3.5
1990	C	487.9	500.8	12.8	2.6
1991	C	477.6	486.6	9.1	1.9
Mean:		430.5	436.8	6.3	1.5
Median:		444.6	458.4	1.0	0.3
Min:		286.8	287.1	-7.6	-1.5
Max:		551.7	545.8	36.2	9.1
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0



**Long-term and Water Year Type Average Salinity at Stockton Intake under CEQA Existing Condition and CEQA No Project Alternative Conditions**

Analysis Period	EC (umhos/cm)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Long-term</b>												
<b>Full Simulation Period<sup>2</sup></b>												
CEQA Existing Condition	391.2	361.0	334.8	334.7	316.0	283.6	313.5	364.0	287.1	264.2	310.3	361.7
CEQA No Project Alternative	394.0	361.6	334.2	331.8	311.5	283.2	313.7	363.6	282.7	263.2	315.3	367.8
Difference	2.8	0.6	-0.6	-2.9	-4.5	-0.4	0.2	-0.4	-4.4	-1.0	5.0	6.1
Percent Difference <sup>3</sup>	0.7	0.2	-0.2	-0.9	-1.4	-0.1	0.1	-0.1	-1.5	-0.4	1.6	1.7
<b>Water Year Types<sup>1</sup></b>												
<b>Wet</b>												
CEQA Existing Condition	302.8	277.8	234.0	247.4	214.4	211.1	234.6	263.2	235.5	196.1	206.7	282.2
CEQA No Project Alternative	303.3	278.0	233.9	246.7	213.5	211.0	234.6	263.3	236.6	198.7	206.8	282.4
Difference	0.6	0.2	0.0	-0.6	-0.9	0.0	0.1	0.1	1.2	2.5	0.1	0.2
Percent Difference	0.2	0.1	0.0	-0.3	-0.4	0.0	0.0	0.0	0.5	1.3	0.0	0.1
<b>Above Normal</b>												
CEQA Existing Condition	490.5	431.7	358.1	311.1	231.8	253.3	249.4	262.7	253.8	207.9	221.1	307.1
CEQA No Project Alternative	499.5	435.5	354.7	310.3	231.8	253.3	249.4	262.7	254.0	210.3	229.7	327.4
Difference	9.0	3.8	-3.3	-0.8	0.0	0.0	0.0	0.0	0.3	2.4	8.6	20.3
Percent Difference	1.8	0.9	-0.9	-0.3	0.0	0.0	0.0	0.0	0.1	1.2	3.9	6.6
<b>Below Normal</b>												
CEQA Existing Condition	354.4	357.3	373.7	323.4	251.7	261.2	291.1	324.6	235.7	201.5	275.5	384.1
CEQA No Project Alternative	359.7	359.1	374.8	323.5	251.7	261.1	291.0	324.7	236.7	203.3	291.5	417.4
Difference	5.4	1.8	1.1	0.1	0.0	-0.1	-0.1	0.0	1.0	1.8	15.9	33.3
Percent Difference	1.5	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.4	0.9	5.8	8.7
<b>Dry</b>												
CEQA Existing Condition	414.5	406.0	340.8	313.2	350.6	299.8	347.0	419.4	284.5	278.5	361.9	416.6
CEQA No Project Alternative	416.1	405.4	341.1	311.3	346.4	301.6	348.4	418.8	280.1	284.5	379.3	424.0
Difference	1.6	-0.5	0.2	-1.9	-4.2	1.8	1.4	-0.6	-4.4	6.0	17.4	7.5
Percent Difference	0.4	-0.1	0.1	-0.6	-1.2	0.6	0.4	-0.2	-1.5	2.2	4.8	1.8
<b>Critical</b>												
CEQA Existing Condition	428.6	380.7	413.6	451.0	436.4	359.6	395.7	468.7	364.3	355.8	415.1	414.6
CEQA No Project Alternative	431.6	381.0	412.5	443.6	425.4	356.9	395.1	467.8	351.4	343.8	411.5	414.6
Difference	3.0	0.3	-1.1	-7.4	-11.0	-2.8	-0.5	-0.8	-12.9	-12.0	-3.6	0.0
Percent Difference	0.7	0.1	-0.3	-1.6	-2.5	-0.8	-0.1	-0.2	-3.5	-3.4	-0.9	0.0

1 As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB 1995)

2 Based on the 17-year simulation period

3 Relative difference of the monthly average

### Stockton Intake Salinity

#### October

Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	187.0	187.0	0.0	0.0
1976	C	304.4	304.7	0.2	0.1
1977	C	473.5	471.8	-1.7	-0.4
1978	AN	535.7	533.0	-2.7	-0.5
1979	BN	354.4	359.7	5.3	1.5
1980	AN	445.2	466.0	20.8	4.7
1981	D	333.1	333.9	0.8	0.2
1982	W	444.3	445.7	1.4	0.3
1983	W	225.2	225.2	0.0	0.0
1984	W	227.8	227.1	-0.7	-0.3
1985	D	440.7	443.2	2.5	0.6
1986	W	429.5	431.6	2.0	0.5
1987	D	372.2	378.8	6.7	1.8
1988	C	484.7	488.6	3.9	0.8
1989	D	512.2	508.7	-3.5	-0.7
1990	C	409.4	411.9	2.5	0.6
1991	C	470.8	480.9	10.1	2.1
Mean:		391.2	394.0	2.8	0.7
Median:		429.5	431.6	1.4	0.3
Min:		187.0	187.0	-3.5	-0.7
Max:		535.7	533.0	20.8	4.7
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### Stockton Intake Salinity

November					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	275.9	276.3	0.3	0.1
1976	C	252.0	250.5	-1.4	-0.6
1977	C	394.7	394.2	-0.5	-0.1
1978	AN	506.7	506.1	-0.5	-0.1
1979	BN	357.3	359.1	1.8	0.5
1980	AN	356.7	364.8	8.1	2.3
1981	D	354.3	354.9	0.7	0.2
1982	W	330.6	330.6	0.0	0.0
1983	W	227.9	227.9	0.0	0.0
1984	W	162.2	162.0	-0.2	-0.1
1985	D	425.1	420.2	-4.9	-1.2
1986	W	392.5	393.3	0.7	0.2
1987	D	379.0	381.9	2.9	0.8
1988	C	390.2	390.7	0.5	0.1
1989	D	465.4	464.6	-0.8	-0.2
1990	C	367.5	367.8	0.2	0.1
1991	C	499.1	501.7	2.6	0.5
Mean:		361.0	361.6	0.6	0.1
Median:		367.5	367.8	0.2	0.1
Min:		162.2	162.0	-4.9	-1.2
Max:		506.7	506.1	8.1	2.3
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### Stockton Intake Salinity

December					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	358.1	358.6	0.5	0.1
1976	C	359.7	346.9	-12.7	-3.5
1977	C	430.0	430.2	0.2	0.0
1978	AN	417.8	416.3	-1.5	-0.4
1979	BN	373.7	374.8	1.1	0.3
1980	AN	298.3	293.2	-5.2	-1.7
1981	D	368.7	369.5	0.7	0.2
1982	W	201.8	201.9	0.1	0.0
1983	W	133.6	133.6	0.0	0.0
1984	W	125.1	124.6	-0.6	-0.5
1985	D	225.8	223.4	-2.5	-1.1
1986	W	351.1	351.0	-0.1	0.0
1987	D	387.4	390.6	3.2	0.8
1988	C	408.3	408.0	-0.3	-0.1
1989	D	381.3	380.7	-0.6	-0.2
1990	C	438.2	444.7	6.5	1.5
1991	C	431.9	432.8	0.9	0.2
Mean:		334.8	334.2	-0.6	-0.3
Median:		368.7	369.5	0.0	0.0
Min:		125.1	124.6	-12.7	-3.5
Max:		438.2	444.7	6.5	1.5
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### Stockton Intake Salinity

#### January

Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	369.9	362.7	-7.2	-1.9
1976	C	421.5	406.8	-14.7	-3.5
1977	C	442.6	442.3	-0.3	-0.1
1978	AN	410.4	409.8	-0.6	-0.1
1979	BN	323.4	323.5	0.1	0.0
1980	AN	211.7	210.7	-1.0	-0.5
1981	D	288.2	284.4	-3.8	-1.3
1982	W	283.6	283.7	0.1	0.0
1983	W	136.8	136.8	0.0	0.0
1984	W	148.8	148.8	-0.1	-0.1
1985	D	224.2	220.3	-3.9	-1.7
1986	W	297.7	301.7	4.0	1.3
1987	D	354.9	356.0	1.1	0.3
1988	C	409.6	408.8	-0.8	-0.2
1989	D	385.3	384.5	-0.8	-0.2
1990	C	552.8	531.2	-21.5	-3.9
1991	C	428.5	429.1	0.6	0.1
Mean:		334.7	331.8	-2.9	-0.7
Median:		354.9	356.0	-0.6	-0.1
Min:		136.8	136.8	-21.5	-3.9
Max:		552.8	531.2	4.0	1.3
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### Stockton Intake Salinity

February					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	343.0	338.6	-4.3	-1.3
1976	C	490.2	480.5	-9.8	-2.0
1977	C	483.8	482.0	-1.8	-0.4
1978	AN	318.1	318.1	0.1	0.0
1979	BN	251.7	251.7	0.0	0.0
1980	AN	145.5	145.5	0.0	0.0
1981	D	275.2	266.0	-9.2	-3.3
1982	W	181.4	181.4	0.0	0.0
1983	W	118.9	118.9	0.0	0.0
1984	W	216.6	216.5	-0.1	0.0
1985	D	319.0	310.4	-8.6	-2.7
1986	W	212.1	211.9	-0.2	-0.1
1987	D	419.5	421.6	2.1	0.5
1988	C	270.7	271.9	1.2	0.4
1989	D	388.5	387.6	-0.9	-0.2
1990	C	460.7	415.9	-44.7	-9.7
1991	C	476.5	476.8	0.3	0.1
Mean:		316.0	311.5	-4.5	-1.1
Median:		318.1	310.4	-0.1	0.0
Min:		118.9	118.9	-44.7	-9.7
Max:		490.2	482.0	2.1	0.5
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### Stockton Intake Salinity

March					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	247.5	247.5	0.0	0.0
1976	C	353.6	351.1	-2.5	-0.7
1977	C	484.0	483.1	-0.8	-0.2
1978	AN	309.8	309.8	0.1	0.0
1979	BN	261.2	261.1	-0.1	0.0
1980	AN	196.8	196.8	0.0	0.0
1981	D	282.3	285.2	3.0	1.1
1982	W	227.9	228.0	0.0	0.0
1983	W	138.2	138.1	-0.1	-0.1
1984	W	264.2	264.8	0.6	0.2
1985	D	331.0	330.7	-0.3	-0.1
1986	W	177.5	176.9	-0.6	-0.3
1987	D	332.0	335.0	2.9	0.9
1988	C	287.9	290.6	2.7	0.9
1989	D	253.9	255.5	1.6	0.6
1990	C	312.2	298.8	-13.3	-4.3
1991	C	360.6	360.7	0.1	0.0
Mean:		283.6	283.2	-0.4	-0.1
Median:		282.3	285.2	0.0	0.0
Min:		138.2	138.1	-13.3	-4.3
Max:		484.0	483.1	3.0	1.1
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### Stockton Intake Salinity

#### April

Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	276.3	276.4	0.0	0.0
1976	C	392.7	392.3	-0.4	-0.1
1977	C	510.9	512.0	1.1	0.2
1978	AN	242.8	242.8	0.0	0.0
1979	BN	291.1	291.0	-0.1	0.0
1980	AN	256.0	256.0	0.0	0.0
1981	D	369.8	371.0	1.2	0.3
1982	W	158.7	158.7	0.0	0.0
1983	W	175.4	175.1	-0.3	-0.2
1984	W	338.1	338.3	0.2	0.1
1985	D	413.4	415.1	1.7	0.4
1986	W	224.3	224.7	0.4	0.2
1987	D	367.3	369.1	1.9	0.5
1988	C	375.1	378.3	3.2	0.9
1989	D	237.5	238.3	0.8	0.3
1990	C	345.8	339.5	-6.3	-1.8
1991	C	353.7	353.6	-0.2	-0.1
Mean:		313.5	313.7	0.2	0.0
Median:		338.1	338.3	0.0	0.0
Min:		158.7	158.7	-6.3	-1.8
Max:		510.9	512.0	3.2	0.9
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0



### Stockton Intake Salinity

May					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	314.0	314.1	0.0	0.0
1976	C	488.7	487.7	-1.0	-0.2
1977	C	541.5	543.2	1.7	0.3
1978	AN	230.0	230.0	0.0	0.0
1979	BN	324.6	324.7	0.0	0.0
1980	AN	295.3	295.3	0.0	0.0
1981	D	417.6	416.9	-0.7	-0.2
1982	W	185.5	185.5	0.0	0.0
1983	W	172.6	172.4	-0.2	-0.1
1984	W	382.3	382.5	0.2	0.1
1985	D	431.2	430.8	-0.4	-0.1
1986	W	261.6	262.0	0.4	0.2
1987	D	475.8	474.2	-1.6	-0.3
1988	C	476.9	477.5	0.6	0.1
1989	D	353.2	353.3	0.1	0.0
1990	C	439.5	435.2	-4.3	-1.0
1991	C	396.8	395.6	-1.3	-0.3
Mean:		364.0	363.6	-0.4	-0.1
Median:		382.3	382.5	0.0	0.0
Min:		172.6	172.4	-4.3	-1.0
Max:		541.5	543.2	1.7	0.3
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### Stockton Intake Salinity

June					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	251.2	251.2	0.0	0.0
1976	C	378.3	368.8	-9.5	-2.5
1977	C	421.8	410.6	-11.2	-2.7
1978	AN	232.5	232.5	0.0	0.0
1979	BN	235.7	236.7	1.0	0.4
1980	AN	275.1	275.6	0.5	0.2
1981	D	270.2	264.5	-5.7	-2.1
1982	W	238.6	238.6	0.1	0.0
1983	W	136.1	136.1	0.0	0.0
1984	W	266.2	271.5	5.3	2.0
1985	D	262.0	265.4	3.4	1.3
1986	W	285.2	285.7	0.5	0.2
1987	D	346.7	331.6	-15.1	-4.4
1988	C	366.8	359.7	-7.1	-1.9
1989	D	258.9	258.9	0.0	0.0
1990	C	350.9	327.3	-23.6	-6.7
1991	C	303.8	290.6	-13.2	-4.3
Mean:		287.1	282.7	-4.4	-1.2
Median:		270.2	271.5	0.0	0.0
Min:		136.1	136.1	-23.6	-6.7
Max:		421.8	410.6	5.3	2.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### Stockton Intake Salinity

#### July

Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	187.0	188.5	1.5	0.8
1976	C	320.5	312.9	-7.5	-2.3
1977	C	372.2	362.7	-9.5	-2.6
1978	AN	196.9	197.9	1.1	0.6
1979	BN	201.5	203.3	1.8	0.9
1980	AN	218.9	222.7	3.8	1.7
1981	D	285.1	294.5	9.3	3.3
1982	W	209.9	212.9	3.0	1.4
1983	W	181.8	181.1	-0.6	-0.3
1984	W	196.7	202.0	5.3	2.7
1985	D	301.0	303.1	2.1	0.7
1986	W	205.2	208.8	3.5	1.7
1987	D	266.3	267.9	1.6	0.6
1988	C	319.2	314.2	-5.1	-1.6
1989	D	261.7	272.7	11.0	4.2
1990	C	385.2	361.5	-23.7	-6.2
1991	C	382.0	367.7	-14.3	-3.7
Mean:		264.2	263.2	-1.0	0.1
Median:		261.7	267.9	1.6	0.7
Min:		181.8	181.1	-23.7	-6.2
Max:		385.2	367.7	11.0	4.2
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### Stockton Intake Salinity

August					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	216.4	216.2	-0.2	-0.1
1976	C	294.9	287.9	-7.0	-2.4
1977	C	427.3	423.6	-3.7	-0.9
1978	AN	227.5	239.7	12.2	5.4
1979	BN	275.5	291.5	15.9	5.8
1980	AN	214.7	219.7	5.0	2.3
1981	D	354.7	375.9	21.2	6.0
1982	W	213.5	213.6	0.1	0.0
1983	W	169.1	170.3	1.2	0.7
1984	W	212.1	212.5	0.4	0.2
1985	D	385.1	386.4	1.3	0.3
1986	W	222.6	221.5	-1.0	-0.4
1987	D	358.8	378.8	20.0	5.6
1988	C	425.9	423.1	-2.7	-0.6
1989	D	348.9	376.1	27.2	7.8
1990	C	446.8	442.7	-4.1	-0.9
1991	C	480.8	480.2	-0.5	-0.1
Mean:		310.3	315.3	5.0	1.7
Median:		294.9	291.5	0.4	0.2
Min:		169.1	170.3	-7.0	-2.4
Max:		480.8	480.2	27.2	7.8
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### Stockton Intake Salinity

#### September

Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		EC (umhos/cm)	EC (umhos/cm)		
1975	W	249.7	250.7	1.0	0.4
1976	C	404.4	398.4	-6.0	-1.5
1977	C	467.6	462.8	-4.8	-1.0
1978	AN	329.0	367.2	38.2	11.6
1979	BN	384.1	417.4	33.3	8.7
1980	AN	285.2	287.7	2.5	0.9
1981	D	415.6	423.7	8.0	1.9
1982	W	279.9	279.0	-0.8	-0.3
1983	W	263.7	263.9	0.2	0.1
1984	W	337.3	337.3	0.0	0.0
1985	D	414.4	414.9	0.5	0.1
1986	W	280.3	280.8	0.5	0.2
1987	D	449.5	457.9	8.4	1.9
1988	C	401.1	395.5	-5.6	-1.4
1989	D	386.6	399.7	13.0	3.4
1990	C	395.3	405.2	9.8	2.5
1991	C	404.4	410.9	6.4	1.6
Mean:		361.7	367.8	6.2	1.7
Median:		386.6	398.4	1.0	0.4
Min:		249.7	250.7	-6.0	-1.5
Max:		467.6	462.8	38.2	11.6
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					1

Long-term and Water Year Type Average Chlorides at the Old River at Hwy 4 (CCWD Los Vaqueros) under CEQA Existing Condition and CEQA No Project Alternative Conditions

Analysis Period	Chlorides (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Long-term</b>												
<b>Full Simulation Period<sup>2</sup></b>												
CEQA Existing Condition	127.3	102.3	102.3	87.7	66.1	44.5	37.0	42.6	47.3	55.9	95.8	128.4
CEQA No Project Alternative	129.3	102.8	102.0	86.3	64.8	44.2	36.9	41.2	45.3	54.8	98.7	132.3
Difference	1.9	0.5	-0.3	-1.4	-1.3	-0.3	0.0	-1.4	-2.0	-1.1	2.9	3.9
Percent Difference <sup>3</sup>	1.5	0.5	-0.3	-1.6	-2.0	-0.7	-0.1	-3.3	-4.2	-1.9	3.0	3.1
<b>Water Year Types<sup>1</sup></b>												
<b>Wet</b>												
CEQA Existing Condition	71.2	49.7	58.8	43.8	32.7	23.9	23.2	26.9	21.2	14.0	31.9	69.5
CEQA No Project Alternative	71.4	49.8	58.8	43.3	32.3	23.8	23.2	26.9	21.4	14.2	31.3	69.3
Difference	0.3	0.1	0.0	-0.5	-0.4	-0.1	0.0	0.0	0.2	0.2	-0.6	-0.2
Percent Difference	0.4	0.2	0.0	-1.1	-1.2	-0.5	0.0	0.0	0.8	1.6	-2.0	-0.3
<b>Above Normal</b>												
CEQA Existing Condition	195.8	141.1	109.5	71.2	43.8	45.7	30.7	34.0	26.5	15.7	41.5	99.4
CEQA No Project Alternative	202.6	143.3	107.8	70.3	43.8	45.7	30.7	34.0	26.6	16.3	46.8	113.8
Difference	6.8	2.2	-1.7	-0.9	0.0	0.0	0.0	0.0	0.1	0.6	5.3	14.3
Percent Difference	3.5	1.6	-1.5	-1.2	0.0	0.0	0.0	0.0	0.3	4.1	12.7	14.4
<b>Below Normal</b>												
CEQA Existing Condition	120.5	113.0	116.5	74.5	33.8	29.5	29.9	32.6	24.0	24.0	76.3	149.2
CEQA No Project Alternative	129.3	115.1	117.3	74.7	33.8	29.5	29.8	32.6	24.3	24.9	85.9	170.4
Difference	8.7	2.1	0.8	0.1	0.0	0.0	0.0	0.0	0.3	1.0	9.6	21.2
Percent Difference	7.3	1.9	0.6	0.2	-0.1	-0.1	-0.1	0.0	1.2	4.1	12.6	14.2
<b>Dry</b>												
CEQA Existing Condition	138.3	132.4	102.2	78.1	66.5	36.4	32.0	41.6	45.8	69.5	126.1	167.5
CEQA No Project Alternative	138.5	132.1	102.3	77.3	65.3	36.4	32.2	41.6	43.5	72.5	136.2	172.0
Difference	0.2	-0.3	0.1	-0.8	-1.2	0.0	0.2	0.0	-2.3	3.0	10.1	4.5
Percent Difference	0.1	-0.2	0.1	-1.1	-1.8	-0.1	0.7	0.0	-5.0	4.3	8.0	2.7
<b>Critical</b>												
CEQA Existing Condition	148.7	113.1	140.3	148.5	114.7	74.0	58.7	64.5	87.5	109.3	161.1	163.3
CEQA No Project Alternative	150.5	113.5	139.7	145.3	111.5	73.1	58.4	59.8	82.3	102.7	159.4	163.3
Difference	1.7	0.5	-0.6	-3.2	-3.2	-0.9	-0.3	-4.7	-5.3	-6.6	-1.7	0.0
Percent Difference	1.2	0.4	-0.5	-2.2	-2.8	-1.2	-0.5	-7.3	-6.0	-6.0	-1.1	0.0

1 As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB 1995)

2 Based on the 17-year simulation period

3 Relative difference of the monthly average

**Old River at Hwy 4 (CCWD Los Vaqueros) Chlorides**

<b>October</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>Chlorides (mg/L)</b>	<b>Chlorides (mg/L)</b>		
1975	W	7.0	7.0	0.0	0.0
1976	C	29.8	30.2	0.3	1.0
1977	C	186.1	183.9	-2.2	-1.2
1978	AN	222.4	220.0	-2.4	-1.1
1979	BN	120.5	129.3	8.7	7.2
1980	AN	169.1	185.1	16.0	9.5
1981	D	97.1	98.9	1.8	1.9
1982	W	158.2	159.7	1.5	0.9
1983	W	24.5	24.6	0.0	0.0
1984	W	15.6	15.5	0.0	0.0
1985	D	161.5	162.0	0.5	0.3
1986	W	150.4	150.4	0.0	0.0
1987	D	113.0	113.9	0.9	0.8
1988	C	183.1	184.2	1.1	0.6
1989	D	181.6	179.1	-2.5	-1.4
1990	C	153.1	156.0	2.9	1.9
1991	C	191.5	198.0	6.5	3.4
Mean:		127.3	129.3	1.9	1.4
Median:		153.1	156.0	0.5	0.6
Min:		7.0	7.0	-2.5	-1.4
Max:		222.4	220.0	16.0	9.5
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**Old River at Hwy 4 (CCWD Los Vaqueros) Chlorides**

<b>November</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>Chlorides (mg/L)</b>	<b>Chlorides (mg/L)</b>		
1975	W	45.3	45.6	0.3	0.7
1976	C	35.4	34.3	-1.1	-3.1
1977	C	134.3	133.8	-0.5	-0.4
1978	AN	173.3	172.5	-0.8	-0.5
1979	BN	113.0	115.1	2.1	1.9
1980	AN	108.8	114.0	5.2	4.8
1981	D	107.8	108.4	0.6	0.6
1982	W	76.4	76.5	0.1	0.1
1983	W	12.3	12.3	0.0	0.0
1984	W	7.0	7.0	0.0	0.0
1985	D	135.8	133.1	-2.7	-2.0
1986	W	107.7	107.7	0.0	0.0
1987	D	122.0	123.7	1.7	1.4
1988	C	113.8	114.0	0.3	0.3
1989	D	163.9	163.1	-0.8	-0.5
1990	C	105.2	105.7	0.6	0.6
1991	C	176.7	179.8	3.0	1.7
Mean:		102.3	102.7	0.5	0.3
Median:		108.8	114.0	0.1	0.1
Min:		7.0	7.0	-2.7	-3.1
Max:		176.7	179.8	5.2	4.8
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0



**Old River at Hwy 4 (CCWD Los Vaqueros) Chlorides**

<b>December</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>Chlorides (mg/L)</b>	<b>Chlorides (mg/L)</b>		
1975	W	117.8	118.0	0.3	0.3
1976	C	113.9	107.0	-6.9	-6.1
1977	C	161.6	161.7	0.1	0.1
1978	AN	140.5	139.7	-0.8	-0.6
1979	BN	116.5	117.3	0.8	0.7
1980	AN	78.5	76.0	-2.5	-3.2
1981	D	125.8	126.2	0.4	0.3
1982	W	22.5	22.5	0.0	0.0
1983	W	33.0	33.0	0.0	0.0
1984	W	7.9	7.9	0.0	0.0
1985	D	29.4	28.6	-0.8	-2.7
1986	W	113.0	112.8	-0.2	-0.2
1987	D	132.0	133.3	1.3	1.0
1988	C	140.2	140.0	-0.2	-0.1
1989	D	121.4	121.1	-0.3	-0.2
1990	C	143.4	146.2	2.8	2.0
1991	C	142.4	143.5	1.1	0.8
Mean:		102.3	102.0	-0.3	-0.5
Median:		117.8	118.0	0.0	0.0
Min:		7.9	7.9	-6.9	-6.1
Max:		161.6	161.7	2.8	2.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**Old River at Hwy 4 (CCWD Los Vaqueros) Chlorides**

January					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Chlorides (mg/L)	Chlorides (mg/L)		
1975	W	107.3	104.0	-3.2	-3.0
1976	C	136.3	128.7	-7.6	-5.6
1977	C	155.9	155.6	-0.3	-0.2
1978	AN	106.5	105.9	-0.5	-0.5
1979	BN	74.5	74.6	0.1	0.1
1980	AN	36.0	34.7	-1.2	-3.3
1981	D	66.5	64.5	-2.0	-3.0
1982	W	37.4	37.4	0.0	0.0
1983	W	11.4	11.4	0.0	0.0
1984	W	12.2	12.3	0.0	0.0
1985	D	28.2	26.9	-1.2	-4.3
1986	W	50.5	51.3	0.8	1.6
1987	D	99.3	99.7	0.4	0.4
1988	C	109.6	108.9	-0.7	-0.6
1989	D	118.5	118.0	-0.4	-0.3
1990	C	203.4	195.4	-8.1	-4.0
1991	C	137.3	137.9	0.6	0.4
Mean:		87.7	86.3	-1.4	-1.3
Median:		99.3	99.7	-0.4	-0.3
Min:		11.4	11.4	-8.1	-5.6
Max:		203.4	195.4	0.8	1.6
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**Old River at Hwy 4 (CCWD Los Vaqueros) Chlorides**

<b>February</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>Chlorides (mg/L)</b>	<b>Chlorides (mg/L)</b>		
1975	W	57.7	55.2	-2.6	-4.5
1976	C	154.5	149.9	-4.6	-3.0
1977	C	155.8	154.7	-1.1	-0.7
1978	AN	47.2	47.3	0.0	0.0
1979	BN	33.8	33.8	0.0	0.0
1980	AN	40.3	40.2	-0.1	-0.2
1981	D	37.3	35.2	-2.1	-5.6
1982	W	26.3	26.3	0.0	0.0
1983	W	7.0	7.0	0.0	0.0
1984	W	25.3	25.3	0.0	0.0
1985	D	50.2	47.7	-2.4	-4.8
1986	W	47.0	47.6	0.6	1.3
1987	D	76.3	76.4	0.1	0.1
1988	C	36.0	35.9	0.0	0.0
1989	D	102.1	101.7	-0.4	-0.4
1990	C	82.3	71.7	-10.6	-12.9
1991	C	145.2	145.5	0.3	0.2
Mean:		66.1	64.8	-1.3	-1.8
Median:		47.2	47.6	0.0	0.0
Min:		7.0	7.0	-10.6	-12.9
Max:		155.8	154.7	0.6	1.3
# Years Rel Diff <= -10%					1
# Years Rel Diff >= 10%					0

**Old River at Hwy 4 (CCWD Los Vaqueros) Chlorides**

<b>March</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>Chlorides (mg/L)</b>	<b>Chlorides (mg/L)</b>		
1975	W	26.8	26.7	-0.1	-0.4
1976	C	59.6	59.0	-0.6	-1.0
1977	C	141.9	141.2	-0.7	-0.5
1978	AN	49.9	49.9	0.0	0.0
1979	BN	29.5	29.5	0.0	0.0
1980	AN	41.5	41.5	0.0	0.0
1981	D	25.8	25.8	-0.1	-0.4
1982	W	30.4	30.4	0.0	0.0
1983	W	12.0	12.0	0.0	0.0
1984	W	22.8	22.8	0.0	0.0
1985	D	42.0	41.4	-0.6	-1.4
1986	W	27.6	27.0	-0.6	-2.2
1987	D	43.0	43.2	0.2	0.5
1988	C	40.0	40.1	0.1	0.3
1989	D	34.8	35.0	0.3	0.9
1990	C	46.3	43.1	-3.2	-6.9
1991	C	82.2	82.2	0.0	0.0
Mean:		44.5	44.2	-0.3	-0.7
Median:		40.0	40.1	0.0	0.0
Min:		12.0	12.0	-3.2	-6.9
Max:		141.9	141.2	0.3	0.9
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**Old River at Hwy 4 (CCWD Los Vaqueros) Chlorides**

April					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Chlorides (mg/L)	Chlorides (mg/L)		
1975	W	26.1	26.1	0.0	0.0
1976	C	46.2	46.0	-0.1	-0.2
1977	C	121.4	121.1	-0.3	-0.2
1978	AN	30.9	30.9	0.0	0.0
1979	BN	29.9	29.8	0.0	0.0
1980	AN	30.6	30.5	0.0	0.0
1981	D	30.7	30.9	0.3	1.0
1982	W	13.1	13.1	0.0	0.0
1983	W	15.0	14.9	-0.1	-0.7
1984	W	28.2	28.3	0.0	0.0
1985	D	39.3	39.6	0.3	0.8
1986	W	33.3	33.3	0.0	0.0
1987	D	35.1	35.2	0.1	0.3
1988	C	41.8	42.0	0.2	0.5
1989	D	23.0	23.2	0.2	0.9
1990	C	45.3	44.1	-1.2	-2.6
1991	C	38.9	38.9	0.0	0.0
Mean:		37.0	36.9	0.0	0.0
Median:		30.9	30.9	0.0	0.0
Min:		13.1	13.1	-1.2	-2.6
Max:		121.4	121.1	0.3	1.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**Old River at Hwy 4 (CCWD Los Vaqueros) Chlorides**

<b>May</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>Chlorides (mg/L)</b>	<b>Chlorides (mg/L)</b>		
1975	W	31.9	31.9	0.0	0.0
1976	C	77.4	54.6	-22.8	-29.5
1977	C	105.3	105.4	0.1	0.1
1978	AN	35.4	35.4	0.0	0.0
1979	BN	32.6	32.6	0.0	0.0
1980	AN	32.6	32.6	0.0	0.0
1981	D	40.8	40.8	-0.1	-0.2
1982	W	22.1	22.1	0.0	0.0
1983	W	14.3	14.3	0.0	0.0
1984	W	37.8	37.8	0.0	0.0
1985	D	46.5	46.5	0.1	0.2
1986	W	28.2	28.3	0.0	0.0
1987	D	45.5	45.4	0.0	0.0
1988	C	51.4	51.5	0.0	0.0
1989	D	33.8	33.9	0.0	0.0
1990	C	47.6	46.9	-0.7	-1.5
1991	C	40.6	40.4	-0.2	-0.5
Mean:		42.6	41.2	-1.4	-1.8
Median:		37.8	37.8	0.0	0.0
Min:		14.3	14.3	-22.8	-29.5
Max:		105.3	105.4	0.1	0.2
# Years Rel Diff <= -10%					1
# Years Rel Diff >= 10%					0

**Old River at Hwy 4 (CCWD Los Vaqueros) Chlorides**

June					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Chlorides (mg/L)	Chlorides (mg/L)		
1975	W	20.7	20.7	0.0	0.0
1976	C	105.2	99.8	-5.3	-5.0
1977	C	119.4	116.9	-2.5	-2.1
1978	AN	25.7	25.8	0.0	0.0
1979	BN	24.0	24.3	0.3	1.2
1980	AN	27.2	27.4	0.2	0.7
1981	D	39.6	37.2	-2.4	-6.1
1982	W	18.3	18.3	0.0	0.0
1983	W	7.0	7.0	0.0	0.0
1984	W	32.8	33.7	0.9	2.7
1985	D	38.2	38.6	0.3	0.8
1986	W	27.1	27.1	0.0	0.0
1987	D	66.8	59.7	-7.1	-10.6
1988	C	79.8	75.9	-3.9	-4.9
1989	D	38.5	38.5	0.0	0.0
1990	C	75.4	66.7	-8.7	-11.5
1991	C	57.9	52.1	-5.8	-10.0
Mean:		47.3	45.3	-2.0	-2.6
Median:		38.2	37.2	0.0	0.0
Min:		7.0	7.0	-8.7	-11.5
Max:		119.4	116.9	0.9	2.7
# Years Rel Diff <= -10%					3
# Years Rel Diff >= 10%					0

**Old River at Hwy 4 (CCWD Los Vaqueros) Chlorides**

<b>July</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>Chlorides (mg/L)</b>	<b>Chlorides (mg/L)</b>		
1975	W	10.6	10.8	0.2	1.9
1976	C	96.4	92.1	-4.3	-4.5
1977	C	120.0	114.9	-5.1	-4.2
1978	AN	14.3	14.4	0.1	0.7
1979	BN	24.0	24.9	1.0	4.2
1980	AN	17.0	18.3	1.2	7.0
1981	D	75.2	80.2	5.1	6.8
1982	W	13.0	13.4	0.4	3.1
1983	W	7.0	7.0	0.0	0.0
1984	W	18.2	19.0	0.8	4.4
1985	D	82.5	83.1	0.6	0.7
1986	W	21.0	20.8	-0.2	-1.0
1987	D	61.3	61.7	0.5	0.8
1988	C	82.9	80.5	-2.4	-2.9
1989	D	59.2	65.0	5.8	9.8
1990	C	124.8	112.5	-12.3	-9.9
1991	C	122.5	113.5	-9.0	-7.3
Mean:		55.9	54.8	-1.0	0.6
Median:		59.2	61.7	0.2	0.7
Min:		7.0	7.0	-12.3	-9.9
Max:		124.8	114.9	5.8	9.8
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0



**Old River at Hwy 4 (CCWD Los Vaqueros) Chlorides**

<b>August</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>Chlorides (mg/L)</b>	<b>Chlorides (mg/L)</b>		
1975	W	39.7	39.3	-0.3	-0.8
1976	C	89.7	85.1	-4.6	-5.1
1977	C	168.9	166.6	-2.4	-1.4
1978	AN	44.8	52.2	7.4	16.5
1979	BN	76.3	85.9	9.6	12.6
1980	AN	38.2	41.3	3.1	8.1
1981	D	123.6	136.3	12.7	10.3
1982	W	36.0	34.6	-1.4	-3.9
1983	W	7.0	7.0	0.0	0.0
1984	W	34.6	34.2	-0.4	-1.2
1985	D	141.0	141.4	0.4	0.3
1986	W	42.3	41.1	-1.2	-2.8
1987	D	124.9	136.3	11.3	9.0
1988	C	170.3	169.7	-0.7	-0.4
1989	D	115.0	130.9	15.9	13.8
1990	C	177.8	176.5	-1.3	-0.7
1991	C	198.5	199.0	0.4	0.2
Mean:		95.8	98.7	2.9	3.2
Median:		89.7	85.9	0.0	0.0
Min:		7.0	7.0	-4.6	-5.1
Max:		198.5	199.0	15.9	16.5
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					4

**Old River at Hwy 4 (CCWD Los Vaqueros) Chlorides**

<b>September</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>Chlorides (mg/L)</b>	<b>Chlorides (mg/L)</b>		
1975	W	67.9	68.6	0.7	1.0
1976	C	164.3	160.3	-3.9	-2.4
1977	C	199.8	196.8	-3.0	-1.5
1978	AN	112.7	139.4	26.7	23.7
1979	BN	149.2	170.4	21.2	14.2
1980	AN	86.1	88.1	2.0	2.3
1981	D	168.8	173.8	5.0	3.0
1982	W	63.9	62.3	-1.6	-2.5
1983	W	11.8	11.9	0.1	0.8
1984	W	120.3	120.1	-0.2	-0.2
1985	D	168.8	168.9	0.0	0.0
1986	W	83.6	83.6	0.0	0.0
1987	D	183.8	188.3	4.5	2.4
1988	C	147.8	144.8	-3.0	-2.0
1989	D	148.4	156.8	8.4	5.7
1990	C	151.3	158.1	6.8	4.5
1991	C	153.3	156.4	3.1	2.0
Mean:		128.3	132.3	3.9	3.0
Median:		148.4	156.4	0.7	1.0
Min:		11.8	11.9	-3.9	-2.5
Max:		199.8	196.8	26.7	23.7
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					2

Long-term and Water Year Type Average Chlorides at CCWD Pumping Plant #1 (Rock Slough) under CEQA Existing Condition and CEQA No Project Alternative Conditions

Analysis Period	Chlorides (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Long-term</b>												
<b>Full Simulation Period<sup>2</sup></b>												
CEQA Existing Condition	154.4	124.1	119.2	109.4	87.5	64.6	58.2	43.2	44.7	68.8	119.9	153.1
CEQA No Project Alternative	157.2	124.9	118.9	108.1	85.5	64.2	58.2	42.9	42.4	67.6	123.3	158.0
Difference	2.8	0.8	-0.2	-1.3	-1.9	-0.5	0.0	-0.3	-2.3	-1.2	3.4	4.8
Percent Difference <sup>3</sup>	1.8	0.7	-0.2	-1.2	-2.2	-0.7	-0.1	-0.6	-5.1	-1.8	2.8	3.2
<b>Water Year Types<sup>1</sup></b>												
<b>Wet</b>												
CEQA Existing Condition	90.7	68.7	78.3	83.8	69.2	67.8	65.0	33.0	24.0	22.1	40.1	83.8
CEQA No Project Alternative	91.1	68.8	78.4	83.6	68.5	67.7	65.1	33.0	24.1	21.9	39.0	83.5
Difference	0.5	0.1	0.0	-0.2	-0.7	-0.1	0.1	0.0	0.1	-0.2	-1.1	-0.3
Percent Difference	0.5	0.2	0.1	-0.3	-1.1	-0.1	0.2	0.0	0.2	-0.7	-2.7	-0.4
<b>Above Normal</b>												
CEQA Existing Condition	229.7	169.7	126.4	108.7	80.4	67.6	54.9	36.1	26.5	22.8	50.8	118.3
CEQA No Project Alternative	240.7	173.2	124.5	106.9	80.3	67.6	54.9	36.1	26.5	23.1	56.8	136.0
Difference	11.0	3.5	-1.9	-1.8	-0.1	0.0	0.0	0.0	0.0	0.3	6.1	17.7
Percent Difference	4.8	2.1	-1.5	-1.7	-0.1	0.0	0.0	0.0	0.1	1.1	12.0	14.9
<b>Below Normal</b>												
CEQA Existing Condition	150.7	134.0	134.3	94.1	44.3	29.5	45.2	36.6	24.6	29.5	92.9	173.7
CEQA No Project Alternative	163.8	136.9	135.2	94.3	44.2	29.5	45.1	36.6	24.7	30.0	104.3	198.4
Difference	13.1	2.9	0.9	0.2	0.0	0.0	-0.1	0.0	0.1	0.5	11.4	24.7
Percent Difference	8.7	2.2	0.7	0.2	-0.1	-0.1	-0.2	-0.1	0.3	1.8	12.3	14.2
<b>Dry</b>												
CEQA Existing Condition	163.7	161.9	118.6	92.1	83.3	45.4	42.7	39.2	35.0	82.9	152.8	197.2
CEQA No Project Alternative	163.8	161.9	119.0	91.2	81.3	45.1	43.0	39.1	33.0	86.5	165.0	202.9
Difference	0.0	0.0	0.4	-0.9	-2.0	-0.3	0.3	-0.1	-2.0	3.6	12.2	5.7
Percent Difference	0.0	0.0	0.4	-1.0	-2.4	-0.6	0.7	-0.3	-5.8	4.4	8.0	2.9
<b>Critical</b>												
CEQA Existing Condition	181.3	129.0	154.6	152.2	120.6	82.7	67.8	60.7	84.5	130.5	206.4	197.0
CEQA No Project Alternative	183.4	129.6	154.0	149.4	116.3	81.4	67.4	59.9	78.3	123.4	204.6	197.2
Difference	2.1	0.6	-0.6	-2.8	-4.3	-1.3	-0.4	-0.8	-6.2	-7.0	-1.8	0.2
Percent Difference	1.1	0.5	-0.4	-1.8	-3.5	-1.5	-0.6	-1.3	-7.3	-5.4	-0.9	0.1

1 As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB 1995)

2 Based on the 17-year simulation period

3 Relative difference of the monthly average

### CCWD Pumping Plant #1 (Rock Slough) Chlorides

October					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Chlorides (mg/L)	Chlorides (mg/L)		
1975	W	2.2	2.2	0.0	0.0
1976	C	28.0	28.2	0.2	0.7
1977	C	234.8	231.6	-3.2	-1.4
1978	AN	250.0	250.0	0.0	0.0
1979	BN	150.7	163.8	13.1	8.7
1980	AN	209.3	231.3	22.0	10.5
1981	D	122.7	125.3	2.6	2.1
1982	W	205.3	207.8	2.5	1.2
1983	W	27.2	27.2	0.1	0.4
1984	W	28.3	28.3	0.0	0.0
1985	D	187.3	187.6	0.3	0.2
1986	W	190.3	190.1	-0.2	-0.1
1987	D	134.0	134.4	0.3	0.2
1988	C	232.9	234.2	1.4	0.6
1989	D	210.9	207.9	-3.0	-1.4
1990	C	179.9	183.6	3.7	2.1
1991	C	231.2	239.4	8.3	3.6
Mean:		154.4	157.2	2.8	1.6
Median:		187.3	187.6	0.3	0.4
Min:		2.2	2.2	-3.2	-1.4
Max:		250.0	250.0	22.0	10.5
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					1

**CCWD Pumping Plant #1 (Rock Slough) Chlorides**

<b>November</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>Chlorides (mg/L)</b>	<b>Chlorides (mg/L)</b>		
1975	W	38.8	39.1	0.3	0.8
1976	C	29.9	29.4	-0.5	-1.7
1977	C	158.4	157.5	-0.8	-0.5
1978	AN	201.2	200.2	-0.9	-0.4
1979	BN	134.0	136.9	2.9	2.2
1980	AN	138.2	146.2	8.0	5.8
1981	D	123.6	124.6	0.9	0.7
1982	W	111.9	112.2	0.3	0.3
1983	W	34.9	34.9	0.0	0.0
1984	W	32.4	32.4	0.0	0.0
1985	D	191.4	189.6	-1.8	-0.9
1986	W	125.4	125.4	-0.1	-0.1
1987	D	142.1	143.9	1.8	1.3
1988	C	127.8	128.0	0.3	0.2
1989	D	190.5	189.5	-1.0	-0.5
1990	C	115.8	116.6	0.8	0.7
1991	C	213.0	216.6	3.5	1.6
Mean:		124.1	124.9	0.8	0.6
Median:		127.8	128.0	0.3	0.2
Min:		29.9	29.4	-1.8	-1.7
Max:		213.0	216.6	8.0	5.8
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### CCWD Pumping Plant #1 (Rock Slough) Chlorides

December					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Chlorides (mg/L)	Chlorides (mg/L)		
1975	W	123.5	123.9	0.4	0.3
1976	C	113.8	108.2	-5.6	-4.9
1977	C	198.5	198.5	0.0	0.0
1978	AN	160.0	159.2	-0.7	-0.4
1979	BN	134.3	135.2	0.9	0.7
1980	AN	92.8	89.8	-3.0	-3.2
1981	D	149.6	150.1	0.5	0.3
1982	W	21.2	21.3	0.0	0.0
1983	W	59.8	59.7	0.0	0.0
1984	W	52.1	52.1	0.0	0.0
1985	D	29.3	28.4	-1.0	-3.4
1986	W	135.0	134.8	-0.2	-0.1
1987	D	159.7	162.3	2.6	1.6
1988	C	156.3	155.8	-0.4	-0.3
1989	D	135.7	135.3	-0.4	-0.3
1990	C	156.3	158.1	1.8	1.2
1991	C	148.2	149.3	1.1	0.7
Mean:		119.2	118.9	-0.2	-0.5
Median:		135.0	135.2	0.0	0.0
Min:		21.2	21.3	-5.6	-4.9
Max:		198.5	198.5	2.6	1.6
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**CCWD Pumping Plant #1 (Rock Slough) Chlorides**

January					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Chlorides (mg/L)	Chlorides (mg/L)		
1975	W	110.5	108.4	-2.2	-2.0
1976	C	134.4	127.7	-6.7	-5.0
1977	C	186.2	185.2	-0.9	-0.5
1978	AN	167.2	166.5	-0.6	-0.4
1979	BN	94.1	94.2	0.1	0.1
1980	AN	50.3	47.2	-3.1	-6.2
1981	D	76.5	74.1	-2.5	-3.3
1982	W	70.0	70.0	0.0	0.0
1983	W	131.4	131.4	0.0	0.0
1984	W	27.8	27.8	0.0	0.0
1985	D	28.7	27.2	-1.5	-5.2
1986	W	79.1	80.3	1.1	1.4
1987	D	122.7	123.5	0.9	0.7
1988	C	106.4	105.8	-0.6	-0.6
1989	D	140.5	140.0	-0.6	-0.4
1990	C	188.0	181.6	-6.3	-3.4
1991	C	145.9	146.5	0.6	0.4
Mean:		109.4	108.1	-1.3	-1.4
Median:		110.5	108.4	-0.6	-0.4
Min:		27.8	27.2	-6.7	-6.2
Max:		188.0	185.2	1.1	1.4
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**CCWD Pumping Plant #1 (Rock Slough) Chlorides**

<b>February</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>Chlorides (mg/L)</b>	<b>Chlorides (mg/L)</b>		
1975	W	98.1	93.6	-4.5	-4.6
1976	C	142.5	138.5	-4.0	-2.8
1977	C	159.6	157.4	-2.2	-1.4
1978	AN	66.1	66.1	0.0	0.0
1979	BN	44.3	44.2	0.0	0.0
1980	AN	94.7	94.5	-0.2	-0.2
1981	D	45.9	41.4	-4.5	-9.8
1982	W	40.0	40.0	0.0	0.0
1983	W	107.7	107.7	0.0	0.0
1984	W	29.3	29.3	0.0	0.0
1985	D	70.9	67.4	-3.5	-4.9
1986	W	70.9	71.8	0.9	1.3
1987	D	113.9	114.2	0.3	0.3
1988	C	34.0	33.9	-0.1	-0.3
1989	D	102.6	102.2	-0.4	-0.4
1990	C	116.6	101.4	-15.2	-13.0
1991	C	150.2	150.4	0.3	0.2
Mean:		87.5	85.5	-1.9	-2.1
Median:		94.7	93.6	-0.1	-0.2
Min:		29.3	29.3	-15.2	-13.0
Max:		159.6	157.4	0.9	1.3
# Years Rel Diff <= -10%					1
# Years Rel Diff >= 10%					0



**CCWD Pumping Plant #1 (Rock Slough) Chlorides**

<b>March</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>Chlorides (mg/L)</b>	<b>Chlorides (mg/L)</b>		
1975	W	42.8	42.6	-0.2	-0.5
1976	C	88.7	87.7	-1.0	-1.1
1977	C	126.8	125.6	-1.1	-0.9
1978	AN	76.0	76.0	0.0	0.0
1979	BN	29.5	29.5	0.0	0.0
1980	AN	59.2	59.1	0.0	0.0
1981	D	22.7	22.5	-0.2	-0.9
1982	W	64.3	64.3	0.0	0.0
1983	W	117.4	117.3	0.0	0.0
1984	W	25.9	25.9	0.0	0.0
1985	D	54.4	53.0	-1.4	-2.6
1986	W	88.7	88.6	-0.1	-0.1
1987	D	54.2	54.3	0.1	0.2
1988	C	35.1	35.3	0.2	0.6
1989	D	50.1	50.6	0.5	1.0
1990	C	63.1	58.6	-4.4	-7.0
1991	C	99.8	99.8	0.1	0.1
Mean:		64.6	64.2	-0.4	-0.7
Median:		59.2	58.6	0.0	0.0
Min:		22.7	22.5	-4.4	-7.0
Max:		126.8	125.6	0.5	1.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**CCWD Pumping Plant #1 (Rock Slough) Chlorides**

April					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Chlorides (mg/L)	Chlorides (mg/L)		
1975	W	45.7	46.1	0.3	0.7
1976	C	73.6	73.4	-0.2	-0.3
1977	C	105.7	105.4	-0.3	-0.3
1978	AN	65.5	65.5	0.0	0.0
1979	BN	45.2	45.1	-0.1	-0.2
1980	AN	44.4	44.4	0.0	0.0
1981	D	37.2	37.4	0.3	0.8
1982	W	65.4	65.4	0.0	0.0
1983	W	120.8	120.9	0.1	0.1
1984	W	41.3	41.3	0.0	0.0
1985	D	55.9	56.5	0.7	1.3
1986	W	51.7	51.7	0.0	0.0
1987	D	53.7	53.8	0.0	0.0
1988	C	59.4	59.7	0.2	0.3
1989	D	24.0	24.2	0.2	0.8
1990	C	56.7	55.0	-1.7	-3.0
1991	C	43.3	43.4	0.0	0.0
Mean:		58.2	58.2	0.0	0.0
Median:		53.7	53.8	0.0	0.0
Min:		24.0	24.2	-1.7	-3.0
Max:		120.8	120.9	0.7	1.3
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### CCWD Pumping Plant #1 (Rock Slough) Chlorides

May					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Chlorides (mg/L)	Chlorides (mg/L)		
1975	W	35.1	35.1	0.0	0.0
1976	C	69.4	67.8	-1.6	-2.3
1977	C	91.4	91.4	0.0	0.0
1978	AN	37.5	37.5	0.0	0.0
1979	BN	36.6	36.6	0.0	0.0
1980	AN	34.6	34.6	0.0	0.0
1981	D	41.1	40.9	-0.2	-0.5
1982	W	28.7	28.7	0.0	0.0
1983	W	29.3	29.3	0.0	0.0
1984	W	43.0	43.0	0.0	0.0
1985	D	47.3	47.4	0.1	0.2
1986	W	28.9	28.9	0.0	0.0
1987	D	41.8	41.3	-0.4	-1.0
1988	C	59.5	59.2	-0.3	-0.5
1989	D	26.6	26.6	0.0	0.0
1990	C	45.6	44.1	-1.5	-3.3
1991	C	37.6	37.0	-0.6	-1.6
Mean:		43.2	42.9	-0.3	-0.5
Median:		37.6	37.5	0.0	0.0
Min:		26.6	26.6	-1.6	-3.3
Max:		91.4	91.4	0.1	0.2
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### CCWD Pumping Plant #1 (Rock Slough) Chlorides

June					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Chlorides (mg/L)	Chlorides (mg/L)		
1975	W	23.7	23.7	0.0	0.0
1976	C	115.2	108.0	-7.2	-6.2
1977	C	125.8	123.2	-2.7	-2.1
1978	AN	26.4	26.4	0.0	0.0
1979	BN	24.6	24.7	0.1	0.4
1980	AN	26.5	26.5	0.1	0.4
1981	D	32.7	30.6	-2.1	-6.4
1982	W	23.3	23.3	0.0	0.0
1983	W	19.6	19.6	0.0	0.0
1984	W	27.8	28.0	0.2	0.7
1985	D	32.5	32.6	0.1	0.3
1986	W	25.6	25.6	0.0	0.0
1987	D	47.8	41.8	-6.0	-12.5
1988	C	60.4	57.7	-2.7	-4.5
1989	D	26.9	26.9	0.0	0.0
1990	C	68.3	57.0	-11.3	-16.5
1991	C	52.6	45.4	-7.2	-13.7
Mean:		44.7	42.4	-2.3	-3.5
Median:		27.8	28.0	0.0	0.0
Min:		19.6	19.6	-11.3	-16.5
Max:		125.8	123.2	0.2	0.7
# Years Rel Diff <= -10%					3
# Years Rel Diff >= 10%					0

**CCWD Pumping Plant #1 (Rock Slough) Chlorides**

<b>July</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>Chlorides (mg/L)</b>	<b>Chlorides (mg/L)</b>		
1975	W	20.6	20.6	-0.1	-0.5
1976	C	116.1	111.2	-4.9	-4.2
1977	C	141.8	136.2	-5.6	-3.9
1978	AN	22.0	21.9	-0.1	-0.5
1979	BN	29.5	30.0	0.5	1.7
1980	AN	23.6	24.2	0.6	2.5
1981	D	91.0	97.1	6.1	6.7
1982	W	19.7	19.8	0.1	0.5
1983	W	19.8	19.8	0.0	0.0
1984	W	24.7	24.6	-0.2	-0.8
1985	D	99.5	99.9	0.4	0.4
1986	W	25.6	25.0	-0.6	-2.3
1987	D	69.0	70.8	1.8	2.6
1988	C	94.4	92.1	-2.3	-2.4
1989	D	72.1	78.3	6.2	8.6
1990	C	150.7	137.9	-12.8	-8.5
1991	C	149.3	139.7	-9.6	-6.4
Mean:		68.8	67.6	-1.2	-0.4
Median:		69.0	70.8	-0.1	-0.5
Min:		19.7	19.8	-12.8	-8.5
Max:		150.7	139.7	6.2	8.6
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**CCWD Pumping Plant #1 (Rock Slough) Chlorides**

<b>August</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>Chlorides (mg/L)</b>	<b>Chlorides (mg/L)</b>		
1975	W	47.8	47.3	-0.5	-1.0
1976	C	107.4	101.9	-5.6	-5.2
1977	C	217.6	214.4	-3.2	-1.5
1978	AN	54.5	62.9	8.5	15.6
1979	BN	92.9	104.3	11.4	12.3
1980	AN	47.0	50.7	3.7	7.9
1981	D	150.0	165.6	15.6	10.4
1982	W	42.2	40.0	-2.2	-5.2
1983	W	19.3	19.3	0.0	0.0
1984	W	40.5	39.7	-0.9	-2.2
1985	D	169.7	170.2	0.4	0.2
1986	W	50.6	48.9	-1.7	-3.4
1987	D	149.8	163.4	13.6	9.1
1988	C	229.4	227.9	-1.6	-0.7
1989	D	141.8	160.7	18.9	13.3
1990	C	228.6	228.8	0.2	0.1
1991	C	248.8	250.0	1.2	0.5
Mean:		119.9	123.3	3.4	3.0
Median:		107.4	104.3	0.2	0.1
Min:		19.3	19.3	-5.6	-5.2
Max:		248.8	250.0	18.9	15.6
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					4

**CCWD Pumping Plant #1 (Rock Slough) Chlorides**

<b>September</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>Chlorides (mg/L)</b>	<b>Chlorides (mg/L)</b>		
1975	W	82.6	83.5	0.9	1.1
1976	C	187.2	182.2	-5.0	-2.7
1977	C	250.0	246.4	-3.6	-1.4
1978	AN	133.0	166.3	33.3	25.0
1979	BN	173.7	198.4	24.7	14.2
1980	AN	103.6	105.7	2.1	2.0
1981	D	195.9	202.3	6.4	3.3
1982	W	76.1	73.8	-2.3	-3.0
1983	W	19.2	19.3	0.1	0.5
1984	W	142.7	142.5	-0.3	-0.2
1985	D	199.2	199.3	0.1	0.1
1986	W	98.3	98.2	-0.1	-0.1
1987	D	214.7	220.7	6.0	2.8
1988	C	176.6	172.8	-3.8	-2.2
1989	D	179.0	189.2	10.2	5.7
1990	C	184.0	193.4	9.4	5.1
1991	C	187.3	191.3	4.1	2.2
Mean:		153.1	158.0	4.8	3.1
Median:		176.6	182.2	0.9	1.1
Min:		19.2	19.3	-5.0	-3.0
Max:		250.0	246.4	33.3	25.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					2

Long-term and Water Year Type Average Chlorides at the Old River at Rock Slough (CCWD Intake) under CEQA Existing Condition and CEQA No Project Alternative Conditions

Analysis Period	Chlorides (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Long-term</b>												
<b>Full Simulation Period<sup>2</sup></b>												
CEQA Existing Condition	144.0	112.2	114.9	92.5	63.2	36.0	28.8	33.2	35.6	64.7	118.5	155.8
CEQA No Project Alternative	146.4	112.6	114.4	90.5	61.6	35.7	28.8	32.0	33.1	63.9	122.4	161.0
Difference	2.5	0.5	-0.5	-1.9	-1.6	-0.3	0.0	-1.2	-2.5	-0.9	3.9	5.2
Percent Difference <sup>3</sup>	1.7	0.4	-0.4	-2.1	-2.5	-0.8	-0.1	-3.5	-6.9	-1.3	3.3	3.3
<b>Water Year Types<sup>1</sup></b>												
<b>Wet</b>												
CEQA Existing Condition	76.2	49.6	63.2	46.9	26.5	21.9	20.2	22.9	10.9	9.5	36.6	79.1
CEQA No Project Alternative	76.5	49.7	63.2	46.2	26.0	21.8	20.1	22.9	11.0	9.1	35.5	78.9
Difference	0.3	0.1	0.0	-0.7	-0.5	-0.1	0.0	0.0	0.1	-0.4	-1.1	-0.3
Percent Difference	0.4	0.1	0.0	-1.5	-1.7	-0.3	0.0	0.0	0.8	-4.0	-2.9	-0.3
<b>Above Normal</b>												
CEQA Existing Condition	222.0	153.3	123.1	60.1	37.2	31.1	30.9	27.4	14.9	8.8	49.3	119.1
CEQA No Project Alternative	231.7	155.7	120.6	59.2	37.2	31.1	30.9	27.4	15.0	9.4	56.7	137.2
Difference	9.7	2.4	-2.5	-0.9	0.0	0.0	0.0	0.0	0.1	0.6	7.4	18.1
Percent Difference	4.4	1.6	-2.0	-1.5	-0.1	0.0	0.0	0.0	0.5	6.5	15.0	15.2
<b>Below Normal</b>												
CEQA Existing Condition	141.8	131.9	130.7	71.5	28.9	24.5	24.1	27.0	10.7	23.2	93.4	184.8
CEQA No Project Alternative	152.2	134.4	131.5	71.6	28.9	24.4	24.1	27.0	10.8	24.5	106.4	212.2
Difference	10.4	2.5	0.8	0.1	0.0	0.0	0.0	0.0	0.2	1.3	13.1	27.5
Percent Difference	7.3	1.9	0.6	0.1	-0.1	-0.2	-0.2	0.0	1.5	5.6	14.0	14.9
<b>Dry</b>												
CEQA Existing Condition	160.6	147.9	111.7	82.1	63.9	27.7	21.4	28.6	27.2	83.6	155.4	205.0
CEQA No Project Alternative	160.8	147.4	111.8	80.9	62.6	27.7	21.5	28.5	25.1	88.4	167.6	210.1
Difference	0.2	-0.4	0.1	-1.2	-1.4	0.0	0.2	-0.1	-2.1	4.9	12.2	5.1
Percent Difference	0.1	-0.3	0.1	-1.5	-2.2	-0.1	0.8	-0.5	-7.7	5.9	7.9	2.5
<b>Critical</b>												
CEQA Existing Condition	167.7	125.8	162.6	163.5	116.5	61.0	43.6	50.8	80.2	135.6	203.7	202.0
CEQA No Project Alternative	169.6	126.2	161.7	158.9	112.7	60.1	43.4	46.9	73.4	128.6	202.7	203.0
Difference	2.0	0.3	-0.9	-4.6	-3.8	-0.9	-0.2	-3.8	-6.8	-7.0	-1.0	1.0
Percent Difference	1.2	0.3	-0.5	-2.8	-3.2	-1.4	-0.5	-7.6	-8.5	-5.2	-0.5	0.5

1 As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB 1995)

2 Based on the 17-year simulation period

3 Relative difference of the monthly average



**Old River at Rock Slough (CCWD Intake) Chlorides**

<b>October</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>Chlorides (mg/L)</b>	<b>Chlorides (mg/L)</b>		
1975	W	7.0	7.0	0.0	0.0
1976	C	18.4	18.8	0.4	2.2
1977	C	214.9	212.2	-2.7	-1.3
1978	AN	250.0	250.0	0.0	0.0
1979	BN	141.8	152.2	10.4	7.3
1980	AN	194.0	213.3	19.3	9.9
1981	D	112.6	114.8	2.2	2.0
1982	W	172.6	174.2	1.6	0.9
1983	W	15.8	15.9	0.1	0.6
1984	W	21.6	21.5	0.0	0.0
1985	D	188.0	188.7	0.6	0.3
1986	W	163.8	163.7	-0.2	-0.1
1987	D	129.3	130.0	0.7	0.5
1988	C	200.9	201.7	0.9	0.4
1989	D	212.7	209.8	-2.9	-1.4
1990	C	170.7	174.0	3.3	1.9
1991	C	233.5	241.4	8.0	3.4
Mean:		144.0	146.4	2.5	1.6
Median:		170.7	174.0	0.6	0.5
Min:		7.0	7.0	-2.9	-1.4
Max:		250.0	250.0	19.3	9.9
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**Old River at Rock Slough (CCWD Intake) Chlorides**

<b>November</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>Chlorides (mg/L)</b>	<b>Chlorides (mg/L)</b>		
1975	W	49.0	49.3	0.3	0.6
1976	C	35.6	33.9	-1.7	-4.8
1977	C	157.9	157.3	-0.5	-0.3
1978	AN	189.8	189.0	-0.8	-0.4
1979	BN	131.9	134.4	2.5	1.9
1980	AN	116.9	122.4	5.5	4.7
1981	D	128.1	128.9	0.8	0.6
1982	W	69.1	69.2	0.1	0.1
1983	W	7.0	7.0	0.0	0.0
1984	W	9.5	9.5	0.0	0.0
1985	D	143.6	139.9	-3.7	-2.6
1986	W	113.3	113.2	-0.1	-0.1
1987	D	141.6	143.8	2.1	1.5
1988	C	121.1	121.4	0.2	0.2
1989	D	178.1	177.2	-0.8	-0.4
1990	C	110.9	111.6	0.7	0.6
1991	C	203.5	206.6	3.1	1.5
Mean:		112.2	112.6	0.5	0.2
Median:		121.1	122.4	0.1	0.1
Min:		7.0	7.0	-3.7	-4.8
Max:		203.5	206.6	5.5	4.7
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**Old River at Rock Slough (CCWD Intake) Chlorides**

<b>December</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>Chlorides (mg/L)</b>	<b>Chlorides (mg/L)</b>		
1975	W	136.9	137.2	0.3	0.2
1976	C	136.1	127.3	-8.8	-6.5
1977	C	196.7	196.8	0.1	0.1
1978	AN	160.4	159.3	-1.1	-0.7
1979	BN	130.7	131.5	0.8	0.6
1980	AN	85.9	82.0	-3.9	-4.5
1981	D	139.7	140.2	0.5	0.4
1982	W	16.9	16.9	0.0	0.0
1983	W	25.8	25.8	0.0	0.0
1984	W	10.3	10.3	0.0	0.0
1985	D	23.7	22.9	-0.9	-3.8
1986	W	126.2	125.9	-0.3	-0.2
1987	D	148.5	149.8	1.3	0.9
1988	C	163.0	162.6	-0.4	-0.2
1989	D	134.9	134.5	-0.4	-0.3
1990	C	178.0	182.0	4.0	2.2
1991	C	139.0	139.9	0.9	0.6
Mean:		114.9	114.4	-0.5	-0.7
Median:		136.1	134.5	0.0	0.0
Min:		10.3	10.3	-8.8	-6.5
Max:		196.7	196.8	4.0	2.2
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**Old River at Rock Slough (CCWD Intake) Chlorides**

<b>January</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>Chlorides (mg/L)</b>	<b>Chlorides (mg/L)</b>		
1975	W	122.8	118.0	-4.8	-3.9
1976	C	156.6	147.8	-8.8	-5.6
1977	C	178.1	177.2	-0.9	-0.5
1978	AN	89.4	88.9	-0.5	-0.6
1979	BN	71.5	71.6	0.1	0.1
1980	AN	30.8	29.5	-1.3	-4.2
1981	D	66.1	63.1	-3.0	-4.5
1982	W	26.7	26.7	0.0	0.0
1983	W	20.2	20.2	0.0	0.0
1984	W	16.7	16.7	0.0	0.0
1985	D	27.1	25.5	-1.6	-5.9
1986	W	48.2	49.4	1.2	2.5
1987	D	108.5	108.9	0.4	0.4
1988	C	110.9	110.1	-0.8	-0.7
1989	D	126.7	126.2	-0.5	-0.4
1990	C	230.7	217.7	-13.0	-5.6
1991	C	141.1	141.6	0.6	0.4
Mean:		92.5	90.5	-1.9	-1.7
Median:		89.4	88.9	-0.5	-0.5
Min:		16.7	16.7	-13.0	-5.9
Max:		230.7	217.7	1.2	2.5
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**Old River at Rock Slough (CCWD Intake) Chlorides**

<b>February</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>Chlorides (mg/L)</b>	<b>Chlorides (mg/L)</b>		
1975	W	54.3	51.5	-2.8	-5.2
1976	C	169.3	164.4	-4.9	-2.9
1977	C	155.0	152.2	-2.8	-1.8
1978	AN	32.0	32.0	0.0	0.0
1979	BN	28.9	28.9	0.0	0.0
1980	AN	42.3	42.3	-0.1	-0.2
1981	D	32.7	30.6	-2.2	-6.7
1982	W	19.9	19.9	0.0	0.0
1983	W	8.3	8.3	0.0	0.0
1984	W	19.8	19.8	0.0	0.0
1985	D	51.4	48.5	-2.9	-5.6
1986	W	30.1	30.6	0.5	1.7
1987	D	76.7	76.8	0.1	0.1
1988	C	27.5	27.5	0.0	0.0
1989	D	94.9	94.3	-0.6	-0.6
1990	C	79.7	68.4	-11.3	-14.2
1991	C	150.8	151.0	0.2	0.1
Mean:		63.2	61.6	-1.6	-2.1
Median:		42.3	42.3	0.0	0.0
Min:		8.3	8.3	-11.3	-14.2
Max:		169.3	164.4	0.5	1.7
# Years Rel Diff <= -10%					1
# Years Rel Diff >= 10%					0

**Old River at Rock Slough (CCWD Intake) Chlorides**

<b>March</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>Chlorides (mg/L)</b>	<b>Chlorides (mg/L)</b>		
1975	W	21.8	21.8	0.0	0.0
1976	C	56.1	55.6	-0.5	-0.9
1977	C	111.4	110.3	-1.2	-1.1
1978	AN	33.6	33.6	0.0	0.0
1979	BN	24.5	24.4	0.0	0.0
1980	AN	28.6	28.5	0.0	0.0
1981	D	18.2	18.1	-0.1	-0.5
1982	W	21.9	21.9	0.0	0.0
1983	W	13.2	13.2	0.0	0.0
1984	W	17.0	17.0	0.0	0.0
1985	D	34.1	33.7	-0.4	-1.2
1986	W	35.5	35.2	-0.3	-0.8
1987	D	30.9	31.0	0.1	0.3
1988	C	26.6	26.7	0.1	0.4
1989	D	27.7	28.1	0.4	1.4
1990	C	38.4	35.7	-2.6	-6.8
1991	C	72.3	72.3	0.0	0.0
Mean:		36.0	35.7	-0.3	-0.5
Median:		28.6	28.5	0.0	0.0
Min:		13.2	13.2	-2.6	-6.8
Max:		111.4	110.3	0.4	1.4
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**Old River at Rock Slough (CCWD Intake) Chlorides**

<b>April</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>Chlorides (mg/L)</b>	<b>Chlorides (mg/L)</b>		
1975	W	21.4	21.4	0.0	0.0
1976	C	35.9	35.8	-0.1	-0.3
1977	C	89.0	88.7	-0.3	-0.3
1978	AN	39.4	39.4	0.0	0.0
1979	BN	24.1	24.1	0.0	0.0
1980	AN	22.4	22.4	0.0	0.0
1981	D	20.8	20.9	0.1	0.5
1982	W	16.1	16.1	0.0	0.0
1983	W	16.9	16.9	-0.1	-0.6
1984	W	20.4	20.5	0.0	0.0
1985	D	26.6	27.0	0.4	1.5
1986	W	25.9	25.9	0.0	0.0
1987	D	21.8	21.8	0.0	0.0
1988	C	30.4	30.4	0.0	0.0
1989	D	16.2	16.4	0.2	1.2
1990	C	35.3	34.6	-0.8	-2.3
1991	C	27.5	27.5	0.0	0.0
Mean:		28.8	28.8	0.0	0.0
Median:		24.1	24.1	0.0	0.0
Min:		16.1	16.1	-0.8	-2.3
Max:		89.0	88.7	0.4	1.5
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**Old River at Rock Slough (CCWD Intake) Chlorides**

<b>May</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>Chlorides (mg/L)</b>	<b>Chlorides (mg/L)</b>		
1975	W	26.2	26.2	0.0	0.0
1976	C	64.2	46.9	-17.3	-26.9
1977	C	87.0	87.0	0.0	0.0
1978	AN	28.0	28.0	0.0	0.0
1979	BN	27.0	26.9	0.0	0.0
1980	AN	26.8	26.9	0.0	0.0
1981	D	30.3	30.1	-0.2	-0.7
1982	W	19.7	19.7	0.0	0.0
1983	W	16.3	16.3	0.0	0.0
1984	W	30.1	30.1	0.0	0.0
1985	D	33.2	33.2	0.0	0.0
1986	W	22.1	22.1	0.0	0.0
1987	D	30.3	29.9	-0.4	-1.3
1988	C	39.7	39.6	-0.2	-0.5
1989	D	20.6	20.6	0.0	0.0
1990	C	34.5	33.3	-1.2	-3.5
1991	C	28.3	27.8	-0.5	-1.8
Mean:		33.2	32.0	-1.2	-2.0
Median:		28.3	28.0	0.0	0.0
Min:		16.3	16.3	-17.3	-26.9
Max:		87.0	87.0	0.0	0.0
# Years Rel Diff <= -10%					1
# Years Rel Diff >= 10%					0



**Old River at Rock Slough (CCWD Intake) Chlorides**

<b>June</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>Chlorides (mg/L)</b>	<b>Chlorides (mg/L)</b>		
1975	W	7.6	7.6	0.0	0.0
1976	C	112.4	105.0	-7.4	-6.6
1977	C	120.7	117.1	-3.6	-3.0
1978	AN	15.1	15.1	0.0	0.0
1979	BN	10.7	10.8	0.2	1.9
1980	AN	14.8	14.9	0.1	0.7
1981	D	25.1	22.8	-2.3	-9.2
1982	W	9.1	9.1	0.0	0.0
1983	W	7.0	7.0	0.0	0.0
1984	W	16.9	17.3	0.4	2.4
1985	D	25.2	25.3	0.1	0.4
1986	W	14.1	14.1	0.0	0.0
1987	D	41.0	34.8	-6.2	-15.1
1988	C	53.3	50.6	-2.6	-4.9
1989	D	17.6	17.6	0.0	0.0
1990	C	65.2	52.9	-12.3	-18.9
1991	C	49.3	41.4	-7.9	-16.0
Mean:		35.6	33.1	-2.4	-4.0
Median:		17.6	17.6	0.0	0.0
Min:		7.0	7.0	-12.3	-18.9
Max:		120.7	117.1	0.4	2.4
# Years Rel Diff <= -10%					3
# Years Rel Diff >= 10%					0

**Old River at Rock Slough (CCWD Intake) Chlorides**

<b>July</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>Chlorides (mg/L)</b>	<b>Chlorides (mg/L)</b>		
1975	W	7.0	7.0	0.0	0.0
1976	C	108.9	103.7	-5.2	-4.8
1977	C	143.9	138.4	-5.5	-3.8
1978	AN	8.4	8.1	-0.3	-3.6
1979	BN	23.2	24.5	1.3	5.6
1980	AN	9.2	10.7	1.4	15.1
1981	D	92.2	100.0	7.7	8.3
1982	W	7.0	7.0	0.0	0.0
1983	W	7.0	7.0	0.0	0.0
1984	W	10.5	10.0	-0.5	-4.8
1985	D	102.6	103.1	0.5	0.5
1986	W	15.8	14.4	-1.4	-8.9
1987	D	67.9	70.7	2.8	4.1
1988	C	101.8	99.6	-2.2	-2.2
1989	D	71.5	80.0	8.5	11.9
1990	C	160.6	148.1	-12.5	-7.8
1991	C	163.0	153.4	-9.5	-5.8
Mean:		64.7	63.9	-0.9	0.2
Median:		67.9	70.7	0.0	0.0
Min:		7.0	7.0	-12.5	-8.9
Max:		163.0	153.4	8.5	15.1
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					2

### Old River at Rock Slough (CCWD Intake) Chlorides

August					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Chlorides (mg/L)	Chlorides (mg/L)		
1975	W	46.1	45.7	-0.4	-0.9
1976	C	109.3	103.4	-5.9	-5.4
1977	C	221.9	218.5	-3.5	-1.6
1978	AN	53.4	64.6	11.1	20.8
1979	BN	93.4	106.4	13.1	14.0
1980	AN	45.1	48.8	3.7	8.2
1981	D	150.6	165.8	15.2	10.1
1982	W	41.7	39.1	-2.6	-6.2
1983	W	7.0	7.0	0.0	0.0
1984	W	40.4	39.6	-0.8	-2.0
1985	D	171.3	171.7	0.4	0.2
1986	W	47.9	46.2	-1.6	-3.3
1987	D	157.0	171.0	14.0	8.9
1988	C	226.9	224.0	-2.9	-1.3
1989	D	142.7	161.9	19.2	13.5
1990	C	219.9	223.9	4.0	1.8
1991	C	240.4	243.5	3.1	1.3
Mean:		118.5	122.4	3.9	3.4
Median:		109.3	106.4	0.4	0.2
Min:		7.0	7.0	-5.9	-6.2
Max:		240.4	243.5	19.2	20.8
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					4

**Old River at Rock Slough (CCWD Intake) Chlorides**

<b>September</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>Chlorides (mg/L)</b>	<b>Chlorides (mg/L)</b>		
1975	W	73.7	74.6	0.9	1.2
1976	C	210.0	205.0	-5.1	-2.4
1977	C	250.0	250.0	0.0	0.0
1978	AN	135.4	169.0	33.5	24.7
1979	BN	184.8	212.2	27.4	14.8
1980	AN	102.8	105.4	2.7	2.6
1981	D	205.9	211.6	5.7	2.8
1982	W	66.5	64.6	-1.9	-2.9
1983	W	7.0	7.0	0.0	0.0
1984	W	149.1	148.9	-0.3	-0.2
1985	D	204.6	204.6	0.0	0.0
1986	W	99.3	99.2	-0.1	-0.1
1987	D	227.2	232.0	4.8	2.1
1988	C	175.5	171.6	-3.9	-2.2
1989	D	182.4	192.2	9.8	5.4
1990	C	183.9	193.8	9.9	5.4
1991	C	190.4	194.5	4.1	2.2
Mean:		155.8	160.9	5.1	3.1
Median:		182.4	192.2	0.9	1.2
Min:		7.0	7.0	-5.1	-2.9
Max:		250.0	250.0	33.5	24.7
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					2

Long-term and Water Year Type Average Chlorides at West Canal at the mouth of CCF (SWP Banks) under CEQA Existing Condition and CEQA No Project Alternative Conditions

Analysis Period	Chlorides (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Long-term</b>												
<b>Full Simulation Period<sup>2</sup></b>												
CEQA Existing Condition	100.6	86.6	82.6	74.5	58.0	44.9	38.7	41.1	47.1	46.6	70.3	96.3
CEQA No Project Alternative	102.1	87.0	82.5	73.8	56.8	44.6	38.7	40.2	46.9	45.7	72.0	99.2
Difference	1.5	0.5	-0.1	-0.8	-1.2	-0.3	-0.1	-0.9	-0.1	-0.9	1.7	2.9
Percent Difference <sup>3</sup>	1.5	0.6	-0.1	-1.0	-2.0	-0.8	-0.2	-2.2	-0.3	-1.8	2.4	3.0
<b>Water Year Types<sup>1</sup></b>												
<b>Wet</b>												
CEQA Existing Condition	61.0	47.2	46.2	38.2	28.5	22.3	22.7	26.1	27.1	19.4	28.2	57.7
CEQA No Project Alternative	61.3	47.3	46.3	38.0	28.1	22.3	22.7	26.1	27.3	20.0	27.9	57.6
Difference	0.3	0.1	0.0	-0.2	-0.4	0.0	0.0	0.0	0.2	0.6	-0.3	-0.1
Percent Difference	0.4	0.2	0.0	-0.5	-1.3	-0.1	0.0	0.0	0.6	3.0	-1.0	-0.2
<b>Above Normal</b>												
CEQA Existing Condition	148.9	122.1	89.5	64.2	27.2	33.7	26.6	27.6	29.6	22.0	34.4	75.8
CEQA No Project Alternative	153.8	123.9	88.7	63.5	27.3	33.7	26.6	27.6	29.6	22.6	37.4	85.5
Difference	4.9	1.8	-0.8	-0.6	0.0	0.0	0.0	0.0	0.1	0.6	3.0	9.6
Percent Difference	3.3	1.5	-0.9	-1.0	0.0	-0.1	0.0	0.0	0.2	2.7	8.6	12.7
<b>Below Normal</b>												
CEQA Existing Condition	93.0	85.6	96.2	67.4	31.1	30.8	32.1	33.5	33.0	25.0	57.6	107.2
CEQA No Project Alternative	99.5	87.2	96.9	67.5	31.1	30.8	32.1	33.5	33.3	25.6	63.4	121.0
Difference	6.5	1.6	0.7	0.1	0.0	0.0	0.0	0.0	0.3	0.6	5.8	13.8
Percent Difference	7.0	1.9	0.7	0.2	0.0	0.0	0.0	0.0	0.8	2.4	10.0	12.9
<b>Dry</b>												
CEQA Existing Condition	105.9	105.9	87.0	68.8	62.8	44.8	37.9	41.4	50.0	54.4	92.2	121.7
CEQA No Project Alternative	106.0	105.8	87.1	68.3	61.7	44.7	38.1	41.5	49.9	55.7	99.4	125.2
Difference	0.1	-0.2	0.1	-0.5	-1.0	-0.1	0.3	0.1	-0.1	1.3	7.2	3.6
Percent Difference	0.1	-0.2	0.1	-0.7	-1.7	-0.3	0.7	0.3	-0.3	2.3	7.8	2.9
<b>Critical</b>												
CEQA Existing Condition	118.3	96.4	110.1	121.1	101.3	74.8	61.7	62.7	74.5	81.6	111.7	120.5
CEQA No Project Alternative	119.6	97.0	109.8	119.4	98.5	73.8	61.3	59.5	73.9	76.8	109.6	121.0
Difference	1.3	0.6	-0.3	-1.7	-2.8	-1.0	-0.4	-3.2	-0.6	-4.8	-2.0	0.5
Percent Difference	1.1	0.7	-0.3	-1.4	-2.8	-1.4	-0.7	-5.0	-0.8	-5.9	-1.8	0.4

1 As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB 1995)

2 Based on the 17-year simulation period

3 Relative difference of the monthly average

**West Canal at the mouth of CCF (SWP Banks) Chlorides**

<b>October</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>Chlorides (mg/L)</b>	<b>Chlorides (mg/L)</b>		
1975	W	7.0	7.0	0.0	0.0
1976	C	37.8	38.0	0.2	0.5
1977	C	144.3	142.6	-1.7	-1.2
1978	AN	166.2	164.4	-1.8	-1.1
1979	BN	93.0	99.5	6.5	7.0
1980	AN	131.5	143.2	11.7	8.9
1981	D	76.9	78.1	1.2	1.6
1982	W	130.2	131.4	1.2	0.9
1983	W	24.2	24.3	0.0	0.0
1984	W	20.2	20.2	0.0	0.0
1985	D	123.1	123.4	0.4	0.3
1986	W	123.5	123.5	0.1	0.1
1987	D	89.4	90.1	0.8	0.9
1988	C	149.2	150.3	1.1	0.7
1989	D	134.2	132.3	-1.9	-1.4
1990	C	123.2	125.6	2.4	1.9
1991	C	136.8	141.5	4.7	3.4
Mean:		100.6	102.1	1.5	1.3
Median:		123.2	123.5	0.4	0.5
Min:		7.0	7.0	-1.9	-1.4
Max:		166.2	164.4	11.7	8.9
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**West Canal at the mouth of CCF (SWP Banks) Chlorides**

<b>November</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>Chlorides (mg/L)</b>	<b>Chlorides (mg/L)</b>		
1975	W	41.2	41.3	0.1	0.2
1976	C	35.2	34.7	-0.5	-1.4
1977	C	104.4	103.9	-0.4	-0.4
1978	AN	151.1	150.2	-0.9	-0.6
1979	BN	85.6	87.2	1.6	1.9
1980	AN	93.1	97.6	4.5	4.8
1981	D	78.8	79.2	0.5	0.6
1982	W	75.1	75.2	0.1	0.1
1983	W	19.1	19.1	0.0	0.0
1984	W	7.0	7.0	0.0	0.0
1985	D	113.9	112.3	-1.5	-1.3
1986	W	93.6	93.7	0.1	0.1
1987	D	92.7	93.9	1.2	1.3
1988	C	101.9	102.3	0.4	0.4
1989	D	138.5	137.6	-0.8	-0.6
1990	C	92.9	93.3	0.4	0.4
1991	C	147.6	150.9	3.4	2.3
Mean:		86.6	87.0	0.5	0.5
Median:		92.9	93.7	0.1	0.1
Min:		7.0	7.0	-1.5	-1.4
Max:		151.1	150.9	4.5	4.8
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**West Canal at the mouth of CCF (SWP Banks) Chlorides**

<b>December</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>Chlorides (mg/L)</b>	<b>Chlorides (mg/L)</b>		
1975	W	91.3	91.5	0.2	0.2
1976	C	85.9	81.5	-4.4	-5.1
1977	C	121.6	121.6	0.0	0.0
1978	AN	111.7	111.2	-0.5	-0.4
1979	BN	96.2	96.9	0.7	0.7
1980	AN	67.3	66.2	-1.1	-1.6
1981	D	102.1	102.4	0.3	0.3
1982	W	28.8	28.9	0.0	0.0
1983	W	11.5	11.5	0.0	0.0
1984	W	7.1	7.0	0.0	0.0
1985	D	35.8	35.0	-0.7	-2.0
1986	W	92.6	92.5	-0.1	-0.1
1987	D	107.5	108.6	1.1	1.0
1988	C	107.5	107.5	0.0	0.0
1989	D	102.7	102.4	-0.3	-0.3
1990	C	101.7	103.1	1.4	1.4
1991	C	133.5	135.1	1.6	1.2
Mean:		82.6	82.5	-0.1	-0.3
Median:		96.2	96.9	0.0	0.0
Min:		7.1	7.0	-4.4	-5.1
Max:		133.5	135.1	1.6	1.4
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0



**West Canal at the mouth of CCF (SWP Banks) Chlorides**

<b>January</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>Chlorides (mg/L)</b>	<b>Chlorides (mg/L)</b>		
1975	W	84.3	82.7	-1.6	-1.9
1976	C	105.1	99.5	-5.6	-5.3
1977	C	126.1	126.1	0.0	0.0
1978	AN	99.7	99.3	-0.5	-0.5
1979	BN	67.4	67.5	0.1	0.1
1980	AN	28.6	27.8	-0.8	-2.8
1981	D	62.4	61.3	-1.0	-1.6
1982	W	38.1	38.1	0.0	0.0
1983	W	7.7	7.7	0.0	0.0
1984	W	8.8	8.8	0.0	0.0
1985	D	29.5	28.6	-0.8	-2.7
1986	W	52.1	52.6	0.5	1.0
1987	D	85.1	85.4	0.3	0.4
1988	C	96.7	96.1	-0.6	-0.6
1989	D	98.2	97.9	-0.3	-0.3
1990	C	156.7	153.7	-3.0	-1.9
1991	C	120.7	121.4	0.6	0.5
Mean:		74.5	73.8	-0.7	-0.9
Median:		84.3	82.7	-0.3	-0.3
Min:		7.7	7.7	-5.6	-5.3
Max:		156.7	153.7	0.6	1.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**West Canal at the mouth of CCF (SWP Banks) Chlorides**

<b>February</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>Chlorides (mg/L)</b>	<b>Chlorides (mg/L)</b>		
1975	W	58.2	56.1	-2.1	-3.6
1976	C	123.6	119.8	-3.8	-3.1
1977	C	131.3	130.9	-0.4	-0.3
1978	AN	45.4	45.4	0.0	0.0
1979	BN	31.1	31.1	0.0	0.0
1980	AN	9.1	9.1	0.0	0.0
1981	D	41.0	39.0	-2.0	-4.9
1982	W	23.5	23.5	0.0	0.0
1983	W	7.0	7.0	0.0	0.0
1984	W	23.1	23.1	0.0	0.0
1985	D	47.7	45.7	-2.0	-4.2
1986	W	30.4	30.7	0.3	1.0
1987	D	75.2	75.3	0.1	0.1
1988	C	42.9	42.9	0.0	0.0
1989	D	87.1	86.8	-0.3	-0.3
1990	C	85.0	74.7	-10.2	-12.0
1991	C	123.6	124.0	0.4	0.3
Mean:		57.9	56.8	-1.2	-1.6
Median:		45.4	45.4	0.0	0.0
Min:		7.0	7.0	-10.2	-12.0
Max:		131.3	130.9	0.4	1.0
# Years Rel Diff <= -10%					1
# Years Rel Diff >= 10%					0

**West Canal at the mouth of CCF (SWP Banks) Chlorides**

<b>March</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>Chlorides (mg/L)</b>	<b>Chlorides (mg/L)</b>		
1975	W	30.0	29.9	-0.1	-0.3
1976	C	63.2	62.5	-0.7	-1.1
1977	C	133.5	133.0	-0.5	-0.4
1978	AN	43.0	43.0	0.0	0.0
1979	BN	30.8	30.8	0.0	0.0
1980	AN	24.5	24.5	0.0	0.0
1981	D	33.3	33.2	-0.1	-0.3
1982	W	28.3	28.3	0.0	0.0
1983	W	9.8	9.8	0.0	0.0
1984	W	28.7	28.7	0.0	0.0
1985	D	48.3	47.6	-0.8	-1.7
1986	W	14.8	14.8	0.0	0.0
1987	D	56.4	56.6	0.2	0.4
1988	C	41.0	41.1	0.0	0.0
1989	D	41.1	41.3	0.2	0.5
1990	C	52.9	49.0	-4.0	-7.6
1991	C	83.2	83.3	0.1	0.1
Mean:		44.9	44.5	-0.3	-0.6
Median:		41.0	41.1	0.0	0.0
Min:		9.8	9.8	-4.0	-7.6
Max:		133.5	133.0	0.2	0.5
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**West Canal at the mouth of CCF (SWP Banks) Chlorides**

April					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Chlorides (mg/L)	Chlorides (mg/L)		
1975	W	28.8	28.8	0.0	0.0
1976	C	49.9	49.7	-0.2	-0.4
1977	C	124.2	123.8	-0.4	-0.3
1978	AN	24.3	24.3	0.0	0.0
1979	BN	32.1	32.1	0.0	0.0
1980	AN	28.8	28.8	0.0	0.0
1981	D	36.1	36.5	0.4	1.1
1982	W	13.2	13.2	0.0	0.0
1983	W	13.2	13.1	-0.1	-0.8
1984	W	33.1	33.2	0.1	0.3
1985	D	46.2	46.4	0.2	0.4
1986	W	25.2	25.2	0.0	0.0
1987	D	43.5	43.7	0.2	0.5
1988	C	46.1	46.3	0.2	0.4
1989	D	25.6	25.8	0.2	0.8
1990	C	45.1	43.3	-1.7	-3.8
1991	C	43.2	43.2	0.0	0.0
Mean:		38.7	38.7	-0.1	-0.1
Median:		33.1	33.2	0.0	0.0
Min:		13.2	13.1	-1.7	-3.8
Max:		124.2	123.8	0.4	1.1
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**West Canal at the mouth of CCF (SWP Banks) Chlorides**

<b>May</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>Chlorides (mg/L)</b>	<b>Chlorides (mg/L)</b>		
1975	W	32.4	32.4	0.0	0.0
1976	C	66.5	51.8	-14.7	-22.1
1977	C	109.3	109.1	-0.2	-0.2
1978	AN	24.7	24.7	0.0	0.0
1979	BN	33.5	33.5	0.0	0.0
1980	AN	30.5	30.5	0.0	0.0
1981	D	42.1	42.1	0.0	0.0
1982	W	15.9	15.9	0.0	0.0
1983	W	13.4	13.4	0.0	0.0
1984	W	39.5	39.5	0.0	0.0
1985	D	47.9	48.1	0.2	0.4
1986	W	29.5	29.5	0.0	0.0
1987	D	42.9	43.0	0.1	0.2
1988	C	48.0	48.2	0.2	0.4
1989	D	32.8	32.9	0.1	0.3
1990	C	47.1	46.0	-1.1	-2.3
1991	C	42.4	42.4	0.0	0.0
Mean:		41.1	40.2	-0.9	-1.4
Median:		39.5	39.5	0.0	0.0
Min:		13.4	13.4	-14.7	-22.1
Max:		109.3	109.1	0.2	0.4
# Years Rel Diff <= -10%					1
# Years Rel Diff >= 10%					0

**West Canal at the mouth of CCF (SWP Banks) Chlorides**

June					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Chlorides (mg/L)	Chlorides (mg/L)		
1975	W	30.1	30.1	0.0	0.0
1976	C	87.6	84.9	-2.7	-3.1
1977	C	102.1	102.4	0.4	0.4
1978	AN	25.1	25.1	0.0	0.0
1979	BN	33.0	33.3	0.3	0.9
1980	AN	34.0	34.1	0.1	0.3
1981	D	47.8	46.1	-1.7	-3.6
1982	W	22.8	22.8	0.0	0.0
1983	W	7.0	7.0	0.0	0.0
1984	W	42.6	43.4	0.8	1.9
1985	D	47.5	47.8	0.3	0.6
1986	W	33.3	33.3	0.0	0.0
1987	D	58.9	59.6	0.8	1.4
1988	C	66.4	67.8	1.4	2.1
1989	D	45.8	45.9	0.0	0.0
1990	C	63.8	62.3	-1.5	-2.4
1991	C	52.6	51.9	-0.7	-1.3
Mean:		47.1	46.9	-0.1	-0.2
Median:		45.8	45.9	0.0	0.0
Min:		7.0	7.0	-2.7	-3.6
Max:		102.1	102.4	1.4	2.1
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**West Canal at the mouth of CCF (SWP Banks) Chlorides**

<b>July</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>Chlorides (mg/L)</b>	<b>Chlorides (mg/L)</b>		
1975	W	18.0	18.4	0.4	2.2
1976	C	79.5	76.2	-3.2	-4.0
1977	C	94.0	90.2	-3.9	-4.1
1978	AN	20.0	20.3	0.3	1.5
1979	BN	25.0	25.6	0.6	2.4
1980	AN	24.1	25.0	0.9	3.7
1981	D	56.6	59.1	2.4	4.2
1982	W	21.1	21.6	0.5	2.4
1983	W	7.1	7.1	0.0	0.0
1984	W	25.0	26.5	1.5	6.0
1985	D	61.3	61.9	0.6	1.0
1986	W	25.8	26.3	0.5	1.9
1987	D	52.9	51.8	-1.1	-2.1
1988	C	65.1	63.0	-2.0	-3.1
1989	D	46.9	50.1	3.2	6.8
1990	C	87.5	78.7	-8.8	-10.1
1991	C	82.0	75.8	-6.3	-7.7
	Mean:	46.6	45.7	-0.8	0.1
	Median:	46.9	50.1	0.4	1.5
	Min:	7.1	7.1	-8.8	-10.1
	Max:	94.0	90.2	3.2	6.8
	# Years Rel Diff <= -10%				1
	# Years Rel Diff >= 10%				0

**West Canal at the mouth of CCF (SWP Banks) Chlorides**

<b>August</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>Chlorides (mg/L)</b>	<b>Chlorides (mg/L)</b>		
1975	W	33.8	33.6	-0.2	-0.6
1976	C	68.8	65.6	-3.2	-4.6
1977	C	108.6	107.5	-1.1	-1.0
1978	AN	36.5	40.3	3.8	10.4
1979	BN	57.6	63.4	5.8	10.1
1980	AN	32.3	34.5	2.2	6.8
1981	D	91.4	100.6	9.2	10.1
1982	W	31.5	30.7	-0.7	-2.2
1983	W	9.2	9.4	0.1	1.1
1984	W	30.0	30.0	0.0	0.0
1985	D	104.0	104.4	0.4	0.4
1986	W	36.6	35.9	-0.7	-1.9
1987	D	89.2	97.1	7.9	8.9
1988	C	105.0	105.9	1.0	1.0
1989	D	84.2	95.6	11.4	13.5
1990	C	131.1	126.7	-4.3	-3.3
1991	C	144.9	142.3	-2.5	-1.7
Mean:		70.3	72.0	1.7	2.8
Median:		68.8	65.6	0.1	0.4
Min:		9.2	9.4	-4.3	-4.6
Max:		144.9	142.3	11.4	13.5
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					4



**West Canal at the mouth of CCF (SWP Banks) Chlorides**

**September**

Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Chlorides (mg/L)	Chlorides (mg/L)		
1975	W	58.1	58.6	0.5	0.9
1976	C	113.0	110.2	-2.7	-2.4
1977	C	136.3	135.0	-1.4	-1.0
1978	AN	84.8	102.9	18.1	21.3
1979	BN	107.2	121.0	13.8	12.9
1980	AN	66.8	68.1	1.2	1.8
1981	D	122.8	126.7	3.9	3.2
1982	W	57.5	56.4	-1.1	-1.9
1983	W	20.2	20.3	0.1	0.5
1984	W	87.1	87.0	-0.1	-0.1
1985	D	124.4	124.4	0.0	0.0
1986	W	65.4	65.5	0.0	0.0
1987	D	130.9	134.9	3.9	3.0
1988	C	115.7	114.8	-0.9	-0.8
1989	D	108.5	114.8	6.3	5.8
1990	C	117.4	121.5	4.1	3.5
1991	C	120.1	123.6	3.5	2.9
Mean:		96.2	99.2	2.9	2.9
Median:		108.5	114.8	0.5	0.9
Min:		20.2	20.3	-2.7	-2.4
Max:		136.3	135.0	18.1	21.3
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					2

Long-term and Water Year Type Average Chlorides at the Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) under CEQA Existing Condition and CEQA No Project Alternative Conditions

Analysis Period	Chlorides (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Long-term</b>												
<b>Full Simulation Period<sup>2</sup></b>												
CEQA Existing Condition	101.2	86.5	87.5	79.5	67.4	60.1	45.6	43.7	54.4	54.9	82.1	110.6
CEQA No Project Alternative	102.6	86.9	87.4	78.9	66.6	60.0	45.6	42.6	53.1	54.2	83.8	112.9
Difference	1.4	0.4	-0.1	-0.6	-0.8	-0.2	0.0	-1.1	-1.3	-0.8	1.8	2.3
Percent Difference <sup>3</sup>	1.4	0.5	-0.1	-0.8	-1.2	-0.3	0.0	-2.5	-2.4	-1.4	2.2	2.1
<b>Water Year Types<sup>1</sup></b>												
<b>Wet</b>												
CEQA Existing Condition	57.3	48.7	54.3	45.2	26.1	26.4	24.3	28.0	36.8	30.1	46.1	78.0
CEQA No Project Alternative	57.5	48.7	54.3	45.1	25.9	26.4	24.3	28.0	36.9	31.2	46.0	78.0
Difference	0.2	0.1	0.0	-0.2	-0.2	0.0	0.0	0.0	0.1	1.2	-0.1	0.0
Percent Difference	0.4	0.1	0.0	-0.4	-0.7	0.0	0.0	0.0	0.4	3.9	-0.3	-0.1
<b>Above Normal</b>												
CEQA Existing Condition	151.4	117.1	97.3	51.1	23.2	30.9	25.3	28.0	33.3	33.1	46.0	89.4
CEQA No Project Alternative	156.2	118.8	96.7	50.8	23.2	30.8	25.3	28.0	33.4	33.6	49.1	97.2
Difference	4.7	1.7	-0.6	-0.2	0.0	0.0	0.0	0.0	0.1	0.5	3.1	7.9
Percent Difference	3.1	1.4	-0.7	-0.5	0.1	-0.1	0.0	0.0	0.2	1.5	6.7	8.8
<b>Below Normal</b>												
CEQA Existing Condition	93.0	88.3	99.9	59.8	26.0	31.9	32.8	35.1	40.7	32.6	66.5	120.1
CEQA No Project Alternative	98.9	89.7	100.3	59.8	26.0	31.9	32.7	35.1	41.1	33.3	72.4	132.7
Difference	5.9	1.4	0.4	0.0	0.0	0.0	0.0	0.0	0.4	0.7	5.8	12.6
Percent Difference	6.4	1.6	0.4	0.1	0.0	0.0	0.0	0.0	0.9	2.1	8.8	10.5
<b>Dry</b>												
CEQA Existing Condition	109.2	107.2	91.0	81.9	83.3	62.6	48.0	46.5	55.0	61.9	98.2	135.8
CEQA No Project Alternative	109.4	107.0	91.1	81.5	82.7	62.6	48.2	46.6	53.5	63.4	104.9	138.7
Difference	0.2	-0.2	0.1	-0.4	-0.6	0.0	0.1	0.0	-1.5	1.5	6.7	2.9
Percent Difference	0.1	-0.2	0.1	-0.4	-0.8	0.0	0.3	0.1	-2.7	2.5	6.9	2.1
<b>Critical</b>												
CEQA Existing Condition	120.4	95.3	111.4	127.0	122.1	109.3	75.8	65.3	82.8	87.4	122.6	129.6
CEQA No Project Alternative	121.7	95.7	111.1	125.5	120.1	108.8	75.6	61.5	79.3	82.2	121.0	129.5
Difference	1.3	0.4	-0.3	-1.5	-2.0	-0.6	-0.2	-3.8	-3.5	-5.3	-1.6	-0.1
Percent Difference	1.1	0.5	-0.3	-1.1	-1.6	-0.5	-0.2	-5.8	-4.2	-6.0	-1.3	-0.1

<sup>1</sup> As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB 1995)

<sup>2</sup> Based on the 17-year simulation period

<sup>3</sup> Relative difference of the monthly average

### Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) Chlorides

October					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Chlorides (mg/L)	Chlorides (mg/L)		
1975	W	7.0	7.0	0.0	0.0
1976	C	38.3	38.5	0.2	0.5
1977	C	145.9	144.3	-1.6	-1.1
1978	AN	171.1	169.4	-1.7	-1.0
1979	BN	93.0	98.9	5.9	6.3
1980	AN	131.8	142.9	11.1	8.4
1981	D	77.0	78.1	1.1	1.4
1982	W	128.7	129.8	1.1	0.9
1983	W	14.4	14.4	0.0	0.0
1984	W	13.6	13.6	0.0	0.0
1985	D	125.4	125.9	0.4	0.3
1986	W	122.8	122.9	0.1	0.1
1987	D	90.6	91.5	0.9	1.0
1988	C	148.8	149.8	1.0	0.7
1989	D	143.9	142.1	-1.8	-1.3
1990	C	123.0	125.2	2.1	1.7
1991	C	145.7	150.4	4.8	3.3
Mean:		101.2	102.6	1.4	1.2
Median:		123.0	125.2	0.4	0.5
Min:		7.0	7.0	-1.8	-1.3
Max:		171.1	169.4	11.1	8.4
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) Chlorides**

<b>November</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>Chlorides (mg/L)</b>	<b>Chlorides (mg/L)</b>		
1975	W	43.3	43.4	0.2	0.5
1976	C	37.3	36.7	-0.6	-1.6
1977	C	105.0	104.7	-0.4	-0.4
1978	AN	142.7	142.1	-0.6	-0.4
1979	BN	88.3	89.7	1.4	1.6
1980	AN	91.4	95.4	4.0	4.4
1981	D	83.7	84.1	0.4	0.5
1982	W	74.1	74.2	0.1	0.1
1983	W	25.0	25.0	0.0	0.0
1984	W	7.0	7.0	0.0	0.0
1985	D	113.2	111.6	-1.7	-1.5
1986	W	94.0	94.1	0.1	0.1
1987	D	95.9	97.1	1.2	1.3
1988	C	98.7	99.0	0.3	0.3
1989	D	135.9	135.3	-0.6	-0.4
1990	C	90.7	91.1	0.4	0.4
1991	C	144.6	147.1	2.5	1.7
Mean:		86.5	86.9	0.4	0.4
Median:		91.4	94.1	0.1	0.1
Min:		7.0	7.0	-1.7	-1.6
Max:		144.6	147.1	4.0	4.4
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) Chlorides**

<b>December</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>Chlorides (mg/L)</b>	<b>Chlorides (mg/L)</b>		
1975	W	96.2	96.4	0.1	0.1
1976	C	92.6	89.3	-3.2	-3.5
1977	C	115.5	115.5	0.0	0.0
1978	AN	116.5	116.1	-0.4	-0.3
1979	BN	99.9	100.3	0.4	0.4
1980	AN	78.2	77.3	-0.9	-1.2
1981	D	103.2	103.5	0.2	0.2
1982	W	49.0	49.0	0.0	0.0
1983	W	8.7	8.7	0.0	0.0
1984	W	11.8	11.8	0.0	0.0
1985	D	48.2	47.7	-0.5	-1.0
1986	W	105.6	105.5	-0.1	-0.1
1987	D	107.7	108.4	0.7	0.6
1988	C	115.3	115.2	-0.1	-0.1
1989	D	105.0	104.8	-0.2	-0.2
1990	C	110.8	112.0	1.2	1.1
1991	C	123.0	123.5	0.6	0.5
Mean:		87.5	87.4	-0.1	-0.2
Median:		103.2	103.5	0.0	0.0
Min:		8.7	8.7	-3.2	-3.5
Max:		123.0	123.5	1.2	1.1
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) Chlorides**

January					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Chlorides (mg/L)	Chlorides (mg/L)		
1975	W	96.0	94.8	-1.3	-1.4
1976	C	111.3	107.3	-3.9	-3.5
1977	C	133.6	133.6	0.0	0.0
1978	AN	83.5	83.3	-0.3	-0.4
1979	BN	59.8	59.8	0.0	0.0
1980	AN	18.6	18.4	-0.2	-1.1
1981	D	76.4	75.6	-0.8	-1.0
1982	W	38.4	38.4	0.0	0.0
1983	W	19.0	19.0	0.0	0.0
1984	W	10.3	10.3	0.0	0.0
1985	D	47.2	46.6	-0.6	-1.3
1986	W	62.4	62.8	0.4	0.6
1987	D	97.3	97.5	0.2	0.2
1988	C	107.2	106.7	-0.4	-0.4
1989	D	106.6	106.4	-0.2	-0.2
1990	C	152.3	149.2	-3.1	-2.0
1991	C	130.5	130.7	0.1	0.1
Mean:		79.4	78.9	-0.6	-0.6
Median:		83.5	83.3	-0.2	-0.2
Min:		10.3	10.3	-3.9	-3.5
Max:		152.3	149.2	0.4	0.6
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) Chlorides**

<b>February</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>Chlorides (mg/L)</b>	<b>Chlorides (mg/L)</b>		
1975	W	49.4	48.4	-1.0	-2.0
1976	C	130.8	128.4	-2.5	-1.9
1977	C	171.8	171.7	-0.1	-0.1
1978	AN	34.4	34.4	0.0	0.0
1979	BN	26.0	26.0	0.0	0.0
1980	AN	12.0	12.0	0.0	0.0
1981	D	55.1	53.8	-1.2	-2.2
1982	W	18.0	18.0	0.0	0.0
1983	W	10.8	10.8	0.0	0.0
1984	W	23.6	23.6	0.0	0.0
1985	D	64.9	63.6	-1.3	-2.0
1986	W	28.4	28.5	0.1	0.4
1987	D	84.1	84.2	0.1	0.1
1988	C	58.0	58.0	0.0	0.0
1989	D	129.2	129.0	-0.1	-0.1
1990	C	88.8	81.2	-7.6	-8.6
1991	C	161.0	161.1	0.1	0.1
Mean:		67.4	66.6	-0.8	-1.0
Median:		55.1	53.8	0.0	0.0
Min:		10.8	10.8	-7.6	-8.6
Max:		171.8	171.7	0.1	0.4
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) Chlorides**

<b>March</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>Chlorides (mg/L)</b>	<b>Chlorides (mg/L)</b>		
1975	W	31.5	31.5	0.0	0.0
1976	C	77.6	77.2	-0.4	-0.5
1977	C	187.5	187.3	-0.2	-0.1
1978	AN	40.4	40.4	0.0	0.0
1979	BN	31.9	31.9	0.0	0.0
1980	AN	21.3	21.3	0.0	0.0
1981	D	47.0	47.0	0.0	0.0
1982	W	26.9	26.9	0.0	0.0
1983	W	19.1	19.1	0.0	0.0
1984	W	37.4	37.4	0.0	0.0
1985	D	69.7	69.3	-0.3	-0.4
1986	W	16.8	16.8	0.0	0.0
1987	D	74.5	74.7	0.1	0.1
1988	C	113.8	113.9	0.0	0.0
1989	D	59.1	59.3	0.2	0.3
1990	C	75.6	73.4	-2.3	-3.0
1991	C	92.0	92.1	0.0	0.0
Mean:		60.1	60.0	-0.2	-0.2
Median:		47.0	47.0	0.0	0.0
Min:		16.8	16.8	-2.3	-3.0
Max:		187.5	187.3	0.2	0.3
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0



**Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) Chlorides**

<b>April</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>Chlorides (mg/L)</b>	<b>Chlorides (mg/L)</b>		
1975	W	31.1	31.1	0.0	0.0
1976	C	62.4	62.3	-0.1	-0.2
1977	C	131.8	131.7	-0.1	-0.1
1978	AN	21.7	21.7	0.0	0.0
1979	BN	32.8	32.7	0.0	0.0
1980	AN	28.9	28.8	0.0	0.0
1981	D	43.9	44.1	0.2	0.5
1982	W	12.7	12.7	0.0	0.0
1983	W	15.8	15.7	0.0	0.0
1984	W	39.0	39.1	0.0	0.0
1985	D	56.0	56.2	0.2	0.4
1986	W	22.8	22.8	0.0	0.0
1987	D	54.1	54.3	0.1	0.2
1988	C	64.4	64.6	0.2	0.3
1989	D	38.1	38.2	0.1	0.3
1990	C	67.9	67.1	-0.7	-1.0
1991	C	52.2	52.2	0.0	0.0
Mean:		45.6	45.6	0.0	0.0
Median:		39.0	39.1	0.0	0.0
Min:		12.7	12.7	-0.7	-1.0
Max:		131.8	131.7	0.2	0.5
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) Chlorides**

<b>May</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>Chlorides (mg/L)</b>	<b>Chlorides (mg/L)</b>		
1975	W	34.3	34.3	0.0	0.0
1976	C	75.9	57.4	-18.4	-24.3
1977	C	100.0	100.1	0.1	0.1
1978	AN	22.4	22.4	0.0	0.0
1979	BN	35.1	35.1	0.0	0.0
1980	AN	33.7	33.7	0.0	0.0
1981	D	45.5	45.5	0.0	0.0
1982	W	17.8	17.8	0.0	0.0
1983	W	14.7	14.7	0.0	0.0
1984	W	41.7	41.7	0.0	0.0
1985	D	52.0	52.1	0.1	0.2
1986	W	31.3	31.3	0.0	0.0
1987	D	50.2	50.2	0.0	0.0
1988	C	54.8	54.9	0.1	0.2
1989	D	38.5	38.5	0.0	0.0
1990	C	50.7	50.0	-0.7	-1.4
1991	C	45.0	44.9	-0.1	-0.2
Mean:		43.7	42.6	-1.1	-1.5
Median:		41.7	41.7	0.0	0.0
Min:		14.7	14.7	-18.4	-24.3
Max:		100.0	100.1	0.1	0.2
# Years Rel Diff <= -10%					1
# Years Rel Diff >= 10%					0

**Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) Chlorides**

<b>June</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>Chlorides (mg/L)</b>	<b>Chlorides (mg/L)</b>		
1975	W	47.5	47.5	0.0	0.0
1976	C	92.8	89.3	-3.5	-3.8
1977	C	107.2	105.2	-2.0	-1.9
1978	AN	22.2	22.2	0.0	0.0
1979	BN	40.7	41.1	0.4	1.0
1980	AN	44.5	44.6	0.1	0.2
1981	D	49.5	47.7	-1.8	-3.6
1982	W	30.2	30.2	0.0	0.0
1983	W	7.0	7.0	0.0	0.0
1984	W	54.2	54.9	0.6	1.1
1985	D	49.4	49.8	0.4	0.8
1986	W	45.1	45.1	0.0	0.0
1987	D	73.0	68.4	-4.7	-6.4
1988	C	80.8	78.3	-2.5	-3.1
1989	D	47.9	47.9	0.0	0.0
1990	C	74.1	68.5	-5.6	-7.6
1991	C	59.0	55.0	-4.0	-6.8
Mean:		54.4	53.1	-1.3	-1.8
Median:		49.4	47.9	0.0	0.0
Min:		7.0	7.0	-5.6	-7.6
Max:		107.2	105.2	0.6	1.1
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) Chlorides**

July					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Chlorides (mg/L)	Chlorides (mg/L)		
1975	W	28.4	28.8	0.4	1.4
1976	C	89.5	86.0	-3.5	-3.9
1977	C	94.8	90.4	-4.3	-4.5
1978	AN	30.4	30.7	0.2	0.7
1979	BN	32.6	33.3	0.7	2.1
1980	AN	35.8	36.6	0.8	2.2
1981	D	63.8	66.6	2.8	4.4
1982	W	36.0	36.4	0.4	1.1
1983	W	9.5	9.5	0.0	0.0
1984	W	38.0	39.1	1.1	2.9
1985	D	68.1	68.7	0.5	0.7
1986	W	38.3	42.2	3.9	10.2
1987	D	63.9	63.0	-0.9	-1.4
1988	C	68.4	65.9	-2.5	-3.7
1989	D	51.7	55.4	3.7	7.2
1990	C	94.6	85.1	-9.5	-10.0
1991	C	89.9	83.3	-6.6	-7.3
Mean:		54.9	54.2	-0.8	0.1
Median:		51.7	55.4	0.4	0.7
Min:		9.5	9.5	-9.5	-10.0
Max:		94.8	90.4	3.9	10.2
# Years Rel Diff <= -10%					1
# Years Rel Diff >= 10%					1

**Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) Chlorides**

<b>August</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>Chlorides (mg/L)</b>	<b>Chlorides (mg/L)</b>		
1975	W	46.5	46.5	0.0	0.0
1976	C	83.5	80.3	-3.2	-3.8
1977	C	123.5	121.6	-1.9	-1.5
1978	AN	48.3	52.4	4.1	8.5
1979	BN	66.5	72.3	5.8	8.7
1980	AN	43.7	45.8	2.1	4.8
1981	D	96.0	104.4	8.4	8.8
1982	W	46.6	46.1	-0.5	-1.1
1983	W	41.1	41.2	0.2	0.5
1984	W	46.2	46.4	0.1	0.2
1985	D	107.3	107.7	0.3	0.3
1986	W	50.0	49.6	-0.4	-0.8
1987	D	100.2	106.9	6.8	6.8
1988	C	126.6	126.0	-0.6	-0.5
1989	D	89.2	100.6	11.4	12.8
1990	C	134.0	132.0	-2.0	-1.5
1991	C	145.6	145.2	-0.4	-0.3
Mean:		82.0	83.8	1.8	2.5
Median:		83.5	80.3	0.1	0.2
Min:		41.1	41.2	-3.2	-3.8
Max:		145.6	145.2	11.4	12.8
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					1

**Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) Chlorides**

**September**

Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Chlorides (mg/L)	Chlorides (mg/L)		
1975	W	73.7	74.2	0.4	0.5
1976	C	132.5	130.0	-2.5	-1.9
1977	C	150.7	148.7	-2.0	-1.3
1978	AN	97.6	112.3	14.7	15.1
1979	BN	120.1	132.7	12.6	10.5
1980	AN	81.1	82.1	1.0	1.2
1981	D	132.8	136.1	3.3	2.5
1982	W	75.2	74.5	-0.7	-0.9
1983	W	47.7	47.7	0.0	0.0
1984	W	107.2	107.1	-0.1	-0.1
1985	D	135.8	135.8	0.0	0.0
1986	W	86.1	86.2	0.1	0.1
1987	D	144.7	147.8	3.1	2.1
1988	C	121.0	118.9	-2.1	-1.7
1989	D	130.1	135.2	5.2	4.0
1990	C	124.6	128.8	4.2	3.4
1991	C	119.0	121.1	2.0	1.7
Mean:		110.6	112.9	2.3	2.1
Median:		120.1	121.1	0.4	0.5
Min:		47.7	47.7	-2.5	-1.9
Max:		150.7	148.7	14.7	15.1
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					2

Long-term and Water Year Type Average Chlorides at Victoria Canal under CEQA Existing Condition and CEQA No Project Alternative Conditions

Analysis Period	Chlorides (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Long-term</b>												
<b>Full Simulation Period<sup>2</sup></b>												
CEQA Existing Condition	76.0	70.0	63.3	62.3	55.0	46.0	41.6	48.7	54.8	39.5	49.9	67.1
CEQA No Project Alternative	76.8	70.3	63.2	61.9	54.1	45.8	41.6	47.5	53.9	38.9	51.0	68.6
Difference	0.8	0.3	-0.1	-0.4	-0.8	-0.2	0.0	-1.3	-1.0	-0.6	1.1	1.5
Percent Difference <sup>3</sup>	1.0	0.4	-0.1	-0.7	-1.5	-0.5	0.0	-2.6	-1.8	-1.6	2.1	2.3
<b>Water Year Types<sup>1</sup></b>												
<b>Wet</b>												
CEQA Existing Condition	51.5	46.0	37.6	35.3	30.0	27.2	25.3	30.0	33.0	24.1	24.8	46.8
CEQA No Project Alternative	51.6	46.1	37.6	35.2	29.8	27.3	25.4	30.0	33.2	25.2	25.0	46.9
Difference	0.2	0.1	0.0	-0.1	-0.2	0.0	0.0	0.0	0.2	1.1	0.3	0.0
Percent Difference	0.3	0.2	0.1	-0.3	-0.6	0.0	0.0	0.0	0.7	4.4	1.1	0.1
<b>Above Normal</b>												
CEQA Existing Condition	106.1	92.6	67.1	61.7	35.8	38.5	31.2	32.2	34.4	26.9	27.7	53.6
CEQA No Project Alternative	108.4	93.7	66.7	61.3	35.8	38.5	31.2	32.2	34.4	27.5	29.3	58.3
Difference	2.3	1.1	-0.3	-0.4	0.0	0.0	0.0	0.0	0.0	0.6	1.5	4.7
Percent Difference	2.2	1.2	-0.5	-0.6	0.0	0.0	0.0	0.0	0.1	2.3	5.5	8.8
<b>Below Normal</b>												
CEQA Existing Condition	59.0	61.6	76.0	56.4	34.4	32.1	34.7	38.5	40.5	25.6	40.0	70.5
CEQA No Project Alternative	61.2	62.0	76.4	56.5	34.4	32.1	34.7	38.5	40.8	26.0	42.9	77.8
Difference	2.2	0.4	0.3	0.1	0.0	0.0	0.0	0.0	0.3	0.4	2.9	7.3
Percent Difference	3.7	0.7	0.4	0.1	0.0	0.0	0.0	0.0	0.7	1.6	7.1	10.3
<b>Dry</b>												
CEQA Existing Condition	79.0	80.8	68.7	55.6	58.8	47.7	45.8	54.6	61.3	40.7	58.5	77.9
CEQA No Project Alternative	79.2	80.8	68.8	55.4	58.0	47.7	46.1	54.6	60.2	40.9	62.9	80.1
Difference	0.2	0.0	0.1	-0.2	-0.8	0.0	0.3	0.0	-1.1	0.3	4.4	2.2
Percent Difference	0.3	0.0	0.1	-0.4	-1.3	0.1	0.7	0.1	-1.8	0.6	7.5	2.8
<b>Critical</b>												
CEQA Existing Condition	89.5	78.1	80.7	96.0	88.7	69.1	60.2	71.5	82.6	61.8	79.1	83.3
CEQA No Project Alternative	90.4	78.5	80.4	95.0	86.6	68.4	60.0	67.1	79.9	58.0	77.7	83.4
Difference	0.9	0.3	-0.3	-1.0	-2.1	-0.8	-0.3	-4.4	-2.7	-3.7	-1.4	0.1
Percent Difference	1.0	0.4	-0.4	-1.0	-2.3	-1.1	-0.4	-6.1	-3.3	-6.0	-1.8	0.1

1 As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB 1995)

2 Based on the 17-year simulation period

3 Relative difference of the monthly average

### Victoria Canal Chlorides

#### October

Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Chlorides (mg/L)	Chlorides (mg/L)		
1975	W	10.4	10.4	0.0	0.0
1976	C	48.6	48.7	0.1	0.2
1977	C	96.8	96.1	-0.7	-0.7
1978	AN	121.1	120.1	-1.0	-0.8
1979	BN	59.0	61.2	2.2	3.7
1980	AN	91.1	96.7	5.6	6.1
1981	D	51.6	51.9	0.3	0.6
1982	W	97.5	98.1	0.6	0.6
1983	W	26.6	26.6	0.0	0.0
1984	W	29.3	29.3	0.0	0.0
1985	D	87.5	87.9	0.4	0.5
1986	W	93.4	93.7	0.3	0.3
1987	D	65.7	67.0	1.3	2.0
1988	C	110.7	111.6	0.9	0.8
1989	D	111.4	110.2	-1.2	-1.1
1990	C	89.8	90.9	1.1	1.2
1991	C	101.6	104.7	3.1	3.1
Mean:		76.0	76.8	0.8	1.0
Median:		89.8	90.9	0.3	0.5
Min:		10.4	10.4	-1.2	-1.1
Max:		121.1	120.1	5.6	6.1
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0



### Victoria Canal Chlorides

#### November

Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Chlorides (mg/L)	Chlorides (mg/L)		
1975	W	45.9	46.0	0.1	0.2
1976	C	40.8	40.6	-0.1	-0.2
1977	C	73.1	73.0	-0.1	-0.1
1978	AN	113.5	113.2	-0.3	-0.3
1979	BN	61.6	62.0	0.4	0.6
1980	AN	71.7	74.2	2.5	3.5
1981	D	59.6	59.8	0.1	0.2
1982	W	72.2	72.2	0.0	0.0
1983	W	21.7	21.7	0.0	0.0
1984	W	7.0	7.0	0.0	0.0
1985	D	86.9	86.2	-0.7	-0.8
1986	W	83.3	83.6	0.2	0.2
1987	D	69.7	70.5	0.8	1.1
1988	C	85.7	86.1	0.4	0.5
1989	D	107.0	106.6	-0.4	-0.4
1990	C	76.6	76.6	0.0	0.0
1991	C	114.3	116.0	1.6	1.4
Mean:		70.0	70.3	0.3	0.3
Median:		72.2	73.0	0.0	0.0
Min:		7.0	7.0	-0.7	-0.8
Max:		114.3	116.0	2.5	3.5
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### Victoria Canal Chlorides

December					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Chlorides (mg/L)	Chlorides (mg/L)		
1975	W	64.5	64.6	0.1	0.2
1976	C	59.0	56.5	-2.4	-4.1
1977	C	88.0	87.9	-0.1	-0.1
1978	AN	83.4	83.2	-0.2	-0.2
1979	BN	76.0	76.4	0.3	0.4
1980	AN	50.7	50.3	-0.4	-0.8
1981	D	75.5	75.6	0.2	0.3
1982	W	31.9	31.9	0.0	0.0
1983	W	14.8	14.8	0.0	0.0
1984	W	7.3	7.3	0.0	0.0
1985	D	36.4	35.9	-0.5	-1.4
1986	W	69.4	69.4	0.0	0.0
1987	D	82.0	82.8	0.8	1.0
1988	C	74.9	75.0	0.1	0.1
1989	D	80.8	80.7	-0.1	-0.1
1990	C	71.3	71.8	0.5	0.7
1991	C	110.3	110.8	0.5	0.5
Mean:		63.3	63.2	-0.1	-0.2
Median:		71.3	71.8	0.0	0.0
Min:		7.3	7.3	-2.4	-4.1
Max:		110.3	110.8	0.8	1.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### Victoria Canal Chlorides

#### January

Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Chlorides (mg/L)	Chlorides (mg/L)		
1975	W	62.3	61.5	-0.8	-1.3
1976	C	76.2	72.5	-3.7	-4.9
1977	C	103.0	103.3	0.3	0.3
1978	AN	91.9	91.6	-0.3	-0.3
1979	BN	56.4	56.5	0.1	0.2
1980	AN	31.5	31.0	-0.4	-1.3
1981	D	51.9	51.4	-0.5	-1.0
1982	W	42.7	42.7	0.0	0.0
1983	W	11.5	11.5	0.0	0.0
1984	W	13.7	13.7	0.1	0.7
1985	D	29.5	29.0	-0.5	-1.7
1986	W	46.4	46.7	0.3	0.6
1987	D	65.6	65.8	0.3	0.5
1988	C	79.6	79.1	-0.4	-0.5
1989	D	75.5	75.3	-0.2	-0.3
1990	C	110.7	109.5	-1.2	-1.1
1991	C	110.3	110.5	0.3	0.3
Mean:		62.3	61.9	-0.4	-0.6
Median:		62.3	61.5	-0.2	-0.3
Min:		11.5	11.5	-3.7	-4.9
Max:		110.7	110.5	0.3	0.7
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### Victoria Canal Chlorides

#### February

Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Chlorides (mg/L)	Chlorides (mg/L)		
1975	W	50.8	49.7	-1.1	-2.2
1976	C	95.5	92.7	-2.7	-2.8
1977	C	116.3	116.1	-0.3	-0.3
1978	AN	50.2	50.2	0.0	0.0
1979	BN	34.4	34.4	0.0	0.0
1980	AN	21.5	21.5	0.0	0.0
1981	D	41.7	40.1	-1.6	-3.8
1982	W	25.1	25.1	0.0	0.0
1983	W	7.0	7.0	0.0	0.0
1984	W	27.5	27.5	0.0	0.0
1985	D	44.6	43.4	-1.2	-2.7
1986	W	39.5	39.7	0.2	0.5
1987	D	64.2	64.3	0.1	0.2
1988	C	43.0	43.1	0.1	0.2
1989	D	84.5	84.2	-0.3	-0.4
1990	C	72.4	64.9	-7.5	-10.4
1991	C	116.2	116.3	0.2	0.2
Mean:		55.0	54.1	-0.8	-1.3
Median:		44.6	43.4	0.0	0.0
Min:		7.0	7.0	-7.5	-10.4
Max:		116.3	116.3	0.2	0.5
# Years Rel Diff <= -10%					1
# Years Rel Diff >= 10%					0

### Victoria Canal Chlorides

#### March

Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Chlorides (mg/L)	Chlorides (mg/L)		
1975	W	30.9	30.8	0.0	0.0
1976	C	57.1	56.5	-0.6	-1.1
1977	C	116.2	115.7	-0.5	-0.4
1978	AN	50.7	50.7	0.0	0.0
1979	BN	32.1	32.1	0.0	0.0
1980	AN	26.3	26.3	0.0	0.0
1981	D	40.6	40.7	0.1	0.2
1982	W	35.6	35.6	0.0	0.0
1983	W	11.9	11.9	0.0	0.0
1984	W	32.5	32.5	0.0	0.0
1985	D	50.8	50.4	-0.4	-0.8
1986	W	25.4	25.4	0.0	0.0
1987	D	56.5	56.9	0.4	0.7
1988	C	42.4	42.6	0.2	0.5
1989	D	42.8	42.9	0.1	0.2
1990	C	50.9	47.8	-3.1	-6.1
1991	C	79.1	79.1	0.0	0.0
Mean:		46.0	45.8	-0.2	-0.4
Median:		42.4	42.6	0.0	0.0
Min:		11.9	11.9	-3.1	-6.1
Max:		116.2	115.7	0.4	0.7
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### Victoria Canal Chlorides

#### April

Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Chlorides (mg/L)	Chlorides (mg/L)		
1975	W	31.3	31.3	0.0	0.0
1976	C	50.9	50.8	-0.1	-0.2
1977	C	108.5	108.3	-0.2	-0.2
1978	AN	33.1	33.1	0.0	0.0
1979	BN	34.7	34.7	0.0	0.0
1980	AN	29.3	29.3	0.0	0.0
1981	D	45.6	46.1	0.5	1.1
1982	W	13.5	13.5	0.0	0.0
1983	W	13.9	13.8	0.0	0.0
1984	W	40.9	41.0	0.1	0.2
1985	D	54.5	54.7	0.2	0.4
1986	W	27.1	27.1	0.0	0.0
1987	D	51.0	51.3	0.3	0.6
1988	C	50.9	51.2	0.3	0.6
1989	D	31.9	32.1	0.2	0.6
1990	C	46.4	45.1	-1.2	-2.6
1991	C	44.4	44.4	0.0	0.0
Mean:		41.6	41.6	0.0	0.0
Median:		40.9	41.0	0.0	0.0
Min:		13.5	13.5	-1.2	-2.6
Max:		108.5	108.3	0.5	1.1
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### Victoria Canal Chlorides

May					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Chlorides (mg/L)	Chlorides (mg/L)		
1975	W	37.8	37.8	0.0	0.0
1976	C	85.3	63.7	-21.6	-25.3
1977	C	103.7	104.0	0.2	0.2
1978	AN	30.1	30.1	0.0	0.0
1979	BN	38.5	38.5	0.0	0.0
1980	AN	34.2	34.2	0.0	0.0
1981	D	53.0	53.0	0.0	0.0
1982	W	19.6	19.6	0.0	0.0
1983	W	13.8	13.8	0.0	0.0
1984	W	47.9	47.9	0.0	0.0
1985	D	59.6	59.7	0.0	0.0
1986	W	30.7	30.7	0.0	0.0
1987	D	59.2	59.3	0.1	0.2
1988	C	61.4	61.6	0.2	0.3
1989	D	46.5	46.5	0.0	0.0
1990	C	55.7	55.1	-0.6	-1.1
1991	C	51.3	51.3	0.0	0.0
Mean:		48.7	47.5	-1.3	-1.5
Median:		47.9	47.9	0.0	0.0
Min:		13.8	13.8	-21.6	-25.3
Max:		103.7	104.0	0.2	0.3
# Years Rel Diff <= -10%					1
# Years Rel Diff >= 10%					0

### Victoria Canal Chlorides

June					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Chlorides (mg/L)	Chlorides (mg/L)		
1975	W	39.3	39.3	0.0	0.0
1976	C	81.7	79.6	-2.2	-2.7
1977	C	102.1	99.5	-2.6	-2.5
1978	AN	27.8	27.9	0.0	0.0
1979	BN	40.5	40.8	0.3	0.7
1980	AN	40.9	41.0	0.1	0.2
1981	D	55.1	53.4	-1.6	-2.9
1982	W	26.2	26.2	0.0	0.0
1983	W	7.0	7.0	0.0	0.0
1984	W	51.4	52.4	1.0	1.9
1985	D	51.5	52.2	0.7	1.4
1986	W	40.8	40.9	0.1	0.2
1987	D	80.0	76.6	-3.4	-4.3
1988	C	87.5	85.8	-1.7	-1.9
1989	D	58.4	58.4	0.0	0.0
1990	C	78.3	74.2	-4.1	-5.2
1991	C	63.0	60.2	-2.8	-4.4
Mean:		54.8	53.8	-1.0	-1.1
Median:		51.5	52.4	0.0	0.0
Min:		7.0	7.0	-4.1	-5.2
Max:		102.1	99.5	1.0	1.9
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0



### Victoria Canal Chlorides

#### July

Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Chlorides (mg/L)	Chlorides (mg/L)		
1975	W	24.1	24.7	0.6	2.5
1976	C	59.2	57.0	-2.2	-3.7
1977	C	68.8	64.9	-3.8	-5.5
1978	AN	23.6	24.0	0.4	1.7
1979	BN	25.6	26.0	0.4	1.6
1980	AN	30.3	31.1	0.8	2.6
1981	D	40.4	41.3	0.9	2.2
1982	W	28.3	29.0	0.7	2.5
1983	W	10.0	9.9	0.0	0.0
1984	W	29.6	32.1	2.5	8.5
1985	D	42.6	43.3	0.6	1.4
1986	W	28.5	30.1	1.6	5.6
1987	D	45.2	43.0	-2.1	-4.6
1988	C	53.6	51.2	-2.4	-4.5
1989	D	34.5	36.1	1.6	4.6
1990	C	67.0	60.7	-6.3	-9.4
1991	C	60.2	56.3	-3.8	-6.3
Mean:		39.5	38.9	-0.6	0.0
Median:		34.5	36.1	0.4	1.6
Min:		10.0	9.9	-6.3	-9.4
Max:		68.8	64.9	2.5	8.5
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### Victoria Canal Chlorides

August					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Chlorides (mg/L)	Chlorides (mg/L)		
1975	W	28.8	28.8	0.0	0.0
1976	C	49.2	47.2	-2.0	-4.1
1977	C	78.4	76.8	-1.6	-2.0
1978	AN	29.4	31.1	1.7	5.8
1979	BN	40.0	42.9	2.9	7.2
1980	AN	26.0	27.4	1.4	5.4
1981	D	59.4	64.9	5.5	9.3
1982	W	28.1	28.7	0.6	2.1
1983	W	9.3	9.6	0.3	3.2
1984	W	27.1	27.7	0.5	1.8
1985	D	66.0	66.3	0.3	0.5
1986	W	30.3	30.3	-0.1	-0.3
1987	D	56.3	61.0	4.7	8.3
1988	C	85.5	84.3	-1.2	-1.4
1989	D	52.4	59.6	7.2	13.7
1990	C	89.2	87.7	-1.5	-1.7
1991	C	93.3	92.6	-0.7	-0.8
Mean:		49.9	51.0	1.1	2.8
Median:		49.2	47.2	0.3	1.8
Min:		9.3	9.6	-2.0	-4.1
Max:		93.3	92.6	7.2	13.7
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					1

### Victoria Canal Chlorides

#### September

Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Chlorides (mg/L)	Chlorides (mg/L)		
1975	W	45.6	45.8	0.2	0.4
1976	C	72.0	70.4	-1.6	-2.2
1977	C	96.6	95.2	-1.5	-1.6
1978	AN	59.2	68.0	8.8	14.9
1979	BN	70.5	77.7	7.3	10.4
1980	AN	47.9	48.5	0.6	1.3
1981	D	78.7	81.0	2.3	2.9
1982	W	49.1	48.9	-0.2	-0.4
1983	W	32.0	32.1	0.1	0.3
1984	W	58.3	58.3	0.0	0.0
1985	D	79.6	79.5	0.0	0.0
1986	W	49.3	49.4	0.1	0.2
1987	D	83.4	86.0	2.6	3.1
1988	C	88.2	86.3	-1.8	-2.0
1989	D	70.1	73.9	3.8	5.4
1990	C	81.1	84.2	3.1	3.8
1991	C	78.5	80.7	2.2	2.8
Mean:		67.1	68.6	1.5	2.3
Median:		70.5	73.9	0.2	0.4
Min:		32.0	32.1	-1.8	-2.2
Max:		96.6	95.2	8.8	14.9
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					2

Long-term and Water Year Type Average Chlorides at Stockton Intake under CEQA Existing Condition and CEQA No Project Alternative Conditions

Analysis Period	Chlorides (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Long-term</b>												
<b>Full Simulation Period<sup>2</sup></b>												
CEQA Existing Condition	57.5	50.4	46.0	45.6	39.5	32.1	36.3	45.2	32.7	26.5	37.9	50.3
CEQA No Project Alternative	58.1	50.5	45.9	44.9	38.8	32.1	36.4	44.0	31.7	26.3	39.1	51.8
Difference	0.7	0.1	-0.1	-0.7	-0.7	-0.1	0.0	-1.2	-1.1	-0.2	1.2	1.5
Percent Difference <sup>3</sup>	1.2	0.3	-0.3	-1.5	-1.9	-0.2	0.1	-2.7	-3.3	-0.9	3.2	3.0
<b>Water Year Types<sup>1</sup></b>												
<b>Wet</b>												
CEQA Existing Condition	35.9	30.9	26.1	26.9	20.4	19.7	23.2	27.5	21.8	10.0	13.2	30.9
CEQA No Project Alternative	36.0	30.9	26.1	26.6	20.3	19.7	23.2	27.5	22.1	10.6	13.2	30.9
Difference	0.1	0.0	0.0	-0.2	-0.1	0.0	0.0	0.0	0.3	0.7	0.0	0.0
Percent Difference	0.4	0.1	0.1	-0.9	-0.7	0.0	0.0	0.0	1.3	6.5	-0.3	0.2
<b>Above Normal</b>												
CEQA Existing Condition	81.7	67.3	49.4	41.0	22.8	26.0	25.4	27.4	23.9	12.7	16.0	36.9
CEQA No Project Alternative	83.9	68.3	48.6	40.8	22.8	26.0	25.4	27.4	24.0	13.3	18.1	41.9
Difference	2.2	0.9	-0.8	-0.2	0.0	0.0	0.0	0.0	0.1	0.6	2.1	5.0
Percent Difference	2.7	1.4	-1.7	-0.4	0.0	0.0	0.0	0.0	0.3	4.6	13.2	13.4
<b>Below Normal</b>												
CEQA Existing Condition	48.5	49.2	53.2	40.9	25.8	27.2	31.7	36.7	19.5	11.2	29.2	55.7
CEQA No Project Alternative	49.8	49.6	53.5	40.9	25.8	27.2	31.7	36.7	19.8	11.6	33.1	63.9
Difference	1.3	0.4	0.3	0.0	0.0	0.0	0.0	0.0	0.2	0.4	3.9	8.1
Percent Difference	2.7	0.9	0.5	0.0	0.0	-0.1	0.0	0.0	1.2	3.8	13.3	14.6
<b>Dry</b>												
CEQA Existing Condition	63.2	61.1	46.4	39.6	43.2	33.0	40.1	50.9	31.4	30.0	50.3	63.6
CEQA No Project Alternative	63.5	60.9	46.5	39.3	42.6	33.2	40.3	50.8	30.3	31.4	54.5	65.5
Difference	0.4	-0.1	0.1	-0.4	-0.6	0.3	0.2	-0.1	-1.1	1.5	4.2	1.8
Percent Difference	0.6	-0.2	0.3	-0.9	-1.5	0.8	0.5	-0.2	-3.4	4.9	8.4	2.9
<b>Critical</b>												
CEQA Existing Condition	66.6	54.9	62.9	72.0	65.1	47.4	51.8	67.3	50.9	48.8	63.3	63.2
CEQA No Project Alternative	67.3	55.0	62.7	70.3	63.3	47.0	51.7	63.2	47.7	45.9	62.4	63.2
Difference	0.7	0.1	-0.3	-1.8	-1.9	-0.4	0.0	-4.1	-3.2	-2.9	-0.9	0.0
Percent Difference	1.1	0.1	-0.4	-2.5	-2.8	-0.9	-0.1	-6.1	-6.2	-6.0	-1.4	0.0

1 As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB 1995)

2 Based on the 17-year simulation period

3 Relative difference of the monthly average

### Stockton Intake Chlorides

October					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Chlorides (mg/L)	Chlorides (mg/L)		
1975	W	7.6	7.6	0.0	0.0
1976	C	36.3	36.3	0.0	0.0
1977	C	77.5	77.1	-0.4	-0.5
1978	AN	92.7	92.0	-0.7	-0.8
1979	BN	48.5	49.8	1.3	2.7
1980	AN	70.6	75.7	5.1	7.2
1981	D	43.3	43.5	0.2	0.5
1982	W	70.4	70.8	0.3	0.4
1983	W	16.9	16.9	0.0	0.0
1984	W	17.6	17.4	-0.2	-1.1
1985	D	69.5	70.1	0.6	0.9
1986	W	66.8	67.3	0.5	0.7
1987	D	52.8	54.4	1.6	3.0
1988	C	80.3	81.2	1.0	1.2
1989	D	87.0	86.1	-0.8	-0.9
1990	C	61.9	62.5	0.6	1.0
1991	C	76.9	79.3	2.5	3.3
Mean:		57.4	58.1	0.7	1.0
Median:		66.8	67.3	0.3	0.5
Min:		7.6	7.6	-0.8	-1.1
Max:		92.7	92.0	5.1	7.2
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### Stockton Intake Chlorides

November					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Chlorides (mg/L)	Chlorides (mg/L)		
1975	W	29.3	29.4	0.1	0.3
1976	C	23.5	23.1	-0.4	-1.7
1977	C	58.3	58.2	-0.1	-0.2
1978	AN	85.6	85.5	-0.1	-0.1
1979	BN	49.2	49.6	0.4	0.8
1980	AN	49.0	51.0	2.0	4.1
1981	D	48.4	48.6	0.2	0.4
1982	W	42.7	42.7	0.0	0.0
1983	W	17.6	17.6	0.0	0.0
1984	W	7.0	7.0	0.0	0.0
1985	D	65.7	64.5	-1.2	-1.8
1986	W	57.8	58.0	0.2	0.3
1987	D	54.5	55.2	0.7	1.3
1988	C	57.2	57.3	0.1	0.2
1989	D	75.6	75.4	-0.2	-0.3
1990	C	51.7	51.7	0.1	0.2
1991	C	83.8	84.4	0.6	0.7
Mean:		50.4	50.5	0.1	0.2
Median:		51.7	51.7	0.1	0.2
Min:		7.0	7.0	-1.2	-1.8
Max:		85.6	85.5	2.0	4.1
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### Stockton Intake Chlorides

December					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Chlorides (mg/L)	Chlorides (mg/L)		
1975	W	49.4	49.5	0.1	0.2
1976	C	49.8	46.7	-3.1	-6.2
1977	C	66.9	67.0	0.0	0.0
1978	AN	63.9	63.6	-0.4	-0.6
1979	BN	53.2	53.5	0.3	0.6
1980	AN	34.8	33.5	-1.3	-3.7
1981	D	52.0	52.2	0.2	0.4
1982	W	18.3	18.3	0.0	0.0
1983	W	8.0	8.0	0.0	0.0
1984	W	7.0	7.0	0.0	0.0
1985	D	21.9	21.5	-0.4	-1.8
1986	W	47.7	47.6	0.0	0.0
1987	D	56.5	57.3	0.8	1.4
1988	C	61.6	61.5	-0.1	-0.2
1989	D	55.0	54.9	-0.1	-0.2
1990	C	68.9	70.5	1.6	2.3
1991	C	67.4	67.6	0.2	0.3
Mean:		46.0	45.9	-0.1	-0.4
Median:		52.0	52.2	0.0	0.0
Min:		7.0	7.0	-3.1	-6.2
Max:		68.9	70.5	1.6	2.3
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### Stockton Intake Chlorides

January					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Chlorides (mg/L)	Chlorides (mg/L)		
1975	W	52.2	50.5	-1.7	-3.3
1976	C	64.8	61.3	-3.6	-5.6
1977	C	70.0	69.9	-0.1	-0.1
1978	AN	62.1	62.0	-0.1	-0.2
1979	BN	40.9	40.9	0.0	0.0
1980	AN	19.8	19.6	-0.1	-0.5
1981	D	32.3	31.4	-0.9	-2.8
1982	W	30.5	30.6	0.0	0.0
1983	W	8.5	8.5	0.0	0.0
1984	W	10.3	10.3	0.0	0.0
1985	D	21.6	21.1	-0.6	-2.8
1986	W	32.7	33.3	0.6	1.8
1987	D	48.6	48.9	0.3	0.6
1988	C	61.9	61.7	-0.2	-0.3
1989	D	56.0	55.8	-0.2	-0.4
1990	C	96.9	91.6	-5.3	-5.5
1991	C	66.6	66.7	0.1	0.2
Mean:		45.6	44.9	-0.7	-1.1
Median:		48.6	48.9	-0.1	-0.2
Min:		8.5	8.5	-5.3	-5.6
Max:		96.9	91.6	0.6	1.8
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0



### Stockton Intake Chlorides

February					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Chlorides (mg/L)	Chlorides (mg/L)		
1975	W	39.4	38.8	-0.6	-1.5
1976	C	81.6	79.2	-2.4	-2.9
1977	C	80.0	79.6	-0.4	-0.5
1978	AN	35.7	35.7	0.0	0.0
1979	BN	25.7	25.7	0.0	0.0
1980	AN	9.8	9.8	0.0	0.0
1981	D	29.3	27.9	-1.4	-4.8
1982	W	15.2	15.2	0.0	0.0
1983	W	7.0	7.0	0.0	0.0
1984	W	20.5	20.5	0.0	0.0
1985	D	35.9	34.6	-1.3	-3.6
1986	W	19.8	19.8	0.0	0.0
1987	D	50.9	51.2	0.3	0.6
1988	C	28.6	28.8	0.2	0.7
1989	D	56.8	56.6	-0.2	-0.4
1990	C	57.1	50.4	-6.7	-11.7
1991	C	78.3	78.3	0.1	0.1
Mean:		39.5	38.8	-0.7	-1.4
Median:		35.7	34.6	0.0	0.0
Min:		7.0	7.0	-6.7	-11.7
Max:		81.6	79.6	0.3	0.7
# Years Rel Diff <= -10%					1
# Years Rel Diff >= 10%					0

### Stockton Intake Chlorides

March					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Chlorides (mg/L)	Chlorides (mg/L)		
1975	W	25.1	25.1	0.0	0.0
1976	C	41.0	40.7	-0.4	-1.0
1977	C	80.1	79.9	-0.2	-0.2
1978	AN	34.5	34.5	0.0	0.0
1979	BN	27.2	27.2	0.0	0.0
1980	AN	17.5	17.5	0.0	0.0
1981	D	30.3	30.8	0.4	1.3
1982	W	22.2	22.2	0.0	0.0
1983	W	8.7	8.7	0.0	0.0
1984	W	27.6	27.7	0.1	0.4
1985	D	37.7	37.6	0.0	0.0
1986	W	14.6	14.5	-0.1	-0.7
1987	D	37.8	38.2	0.4	1.1
1988	C	31.2	31.6	0.4	1.3
1989	D	26.1	26.3	0.2	0.8
1990	C	34.8	32.8	-2.0	-5.7
1991	C	50.0	50.0	0.0	0.0
Mean:		32.1	32.1	-0.1	-0.2
Median:		30.3	30.8	0.0	0.0
Min:		8.7	8.7	-2.0	-5.7
Max:		80.1	79.9	0.4	1.3
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### Stockton Intake Chlorides

April					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Chlorides (mg/L)	Chlorides (mg/L)		
1975	W	29.5	29.5	0.0	0.0
1976	C	46.9	46.8	-0.1	-0.2
1977	C	86.7	86.9	0.3	0.3
1978	AN	24.4	24.4	0.0	0.0
1979	BN	31.7	31.6	0.0	0.0
1980	AN	26.4	26.4	0.0	0.0
1981	D	43.5	43.7	0.2	0.5
1982	W	11.8	11.8	0.0	0.0
1983	W	14.3	14.3	0.0	0.0
1984	W	38.7	38.7	0.0	0.0
1985	D	50.0	50.3	0.3	0.6
1986	W	21.6	21.7	0.1	0.5
1987	D	43.1	43.4	0.3	0.7
1988	C	44.3	44.7	0.5	1.1
1989	D	23.6	23.7	0.1	0.4
1990	C	39.9	38.9	-0.9	-2.3
1991	C	41.1	41.0	0.0	0.0
Mean:		36.3	36.3	0.0	0.1
Median:		38.7	38.7	0.0	0.0
Min:		11.8	11.8	-0.9	-2.3
Max:		86.7	86.9	0.5	1.1
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

### Stockton Intake Chlorides

May					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Chlorides (mg/L)	Chlorides (mg/L)		
1975	W	35.1	35.1	0.0	0.0
1976	C	81.2	61.2	-20.1	-24.7
1977	C	94.1	94.5	0.4	0.4
1978	AN	22.5	22.5	0.0	0.0
1979	BN	36.7	36.7	0.0	0.0
1980	AN	32.3	32.3	0.0	0.0
1981	D	50.6	50.5	-0.1	-0.2
1982	W	15.8	15.8	0.0	0.0
1983	W	13.9	13.9	0.0	0.0
1984	W	45.3	45.4	0.0	0.0
1985	D	52.7	52.6	-0.1	-0.2
1986	W	27.2	27.3	0.1	0.4
1987	D	59.4	59.1	-0.2	-0.3
1988	C	59.5	59.6	0.1	0.2
1989	D	41.0	41.0	0.0	0.0
1990	C	53.9	53.3	-0.6	-1.1
1991	C	47.5	47.3	-0.2	-0.4
Mean:		45.2	44.0	-1.2	-1.5
Median:		45.3	45.4	0.0	0.0
Min:		13.9	13.9	-20.1	-24.7
Max:		94.1	94.5	0.4	0.4
# Years Rel Diff <= -10%					1
# Years Rel Diff >= 10%					0

### Stockton Intake Chlorides

June					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Chlorides (mg/L)	Chlorides (mg/L)		
1975	W	23.3	23.3	0.0	0.0
1976	C	54.3	52.0	-2.3	-4.2
1977	C	64.9	62.2	-2.7	-4.2
1978	AN	18.7	18.7	0.0	0.0
1979	BN	19.5	19.8	0.2	1.0
1980	AN	29.1	29.2	0.1	0.3
1981	D	27.9	26.5	-1.4	-5.0
1982	W	20.2	20.2	0.0	0.0
1983	W	7.0	7.0	0.0	0.0
1984	W	27.0	28.2	1.3	4.8
1985	D	25.9	26.8	0.8	3.1
1986	W	31.6	31.7	0.1	0.3
1987	D	46.6	42.9	-3.7	-7.9
1988	C	51.5	49.8	-1.7	-3.3
1989	D	25.2	25.2	0.0	0.0
1990	C	47.6	41.9	-5.8	-12.2
1991	C	36.1	32.9	-3.2	-8.9
Mean:		32.7	31.7	-1.1	-2.1
Median:		27.9	28.2	0.0	0.0
Min:		7.0	7.0	-5.8	-12.2
Max:		64.9	62.2	1.3	4.8
# Years Rel Diff <= -10%					1
# Years Rel Diff >= 10%					0

### Stockton Intake Chlorides

July					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Chlorides (mg/L)	Chlorides (mg/L)		
1975	W	7.6	8.0	0.4	5.2
1976	C	40.2	38.4	-1.8	-4.5
1977	C	52.8	50.5	-2.3	-4.4
1978	AN	10.0	10.3	0.3	3.0
1979	BN	11.2	11.6	0.4	3.6
1980	AN	15.4	16.3	0.9	5.8
1981	D	31.6	33.8	2.3	7.3
1982	W	13.2	14.0	0.7	5.3
1983	W	7.0	7.0	0.0	0.0
1984	W	10.0	11.3	1.3	13.0
1985	D	35.4	36.0	0.5	1.4
1986	W	12.1	12.9	0.9	7.5
1987	D	27.0	27.4	0.4	1.5
1988	C	39.9	38.7	-1.2	-3.0
1989	D	25.9	28.5	2.7	10.4
1990	C	56.0	50.2	-5.8	-10.4
1991	C	55.2	51.7	-3.5	-6.3
Mean:		26.5	26.3	-0.2	2.1
Median:		25.9	27.4	0.4	3.0
Min:		7.0	7.0	-5.8	-10.4
Max:		56.0	51.7	2.7	13.0
# Years Rel Diff <= -10%					1
# Years Rel Diff >= 10%					2

### Stockton Intake Chlorides

August					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Chlorides (mg/L)	Chlorides (mg/L)		
1975	W	14.8	14.7	-0.1	-0.7
1976	C	34.0	32.2	-1.7	-5.0
1977	C	66.3	65.4	-0.9	-1.4
1978	AN	17.5	20.5	3.0	17.1
1979	BN	29.2	33.1	3.9	13.3
1980	AN	14.4	15.6	1.2	8.3
1981	D	48.5	53.7	5.2	10.7
1982	W	14.1	14.1	0.0	0.0
1983	W	7.0	7.0	0.0	0.0
1984	W	13.7	13.8	0.1	0.7
1985	D	56.0	56.3	0.3	0.5
1986	W	16.3	16.0	-0.3	-1.8
1987	D	49.5	54.4	4.9	9.9
1988	C	65.9	65.2	-0.7	-1.1
1989	D	47.1	53.8	6.6	14.0
1990	C	71.0	70.0	-1.0	-1.4
1991	C	79.3	79.2	-0.1	-0.1
Mean:		37.9	39.1	1.2	3.7
Median:		34.0	33.1	0.0	0.0
Min:		7.0	7.0	-1.7	-5.0
Max:		79.3	79.2	6.6	17.1
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					4

### Stockton Intake Chlorides

#### September

Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Chlorides (mg/L)	Chlorides (mg/L)		
1975	W	22.9	23.2	0.3	1.3
1976	C	60.7	59.2	-1.5	-2.5
1977	C	76.1	74.9	-1.2	-1.6
1978	AN	42.3	51.6	9.3	22.0
1979	BN	55.7	63.9	8.1	14.5
1980	AN	31.6	32.2	0.6	1.9
1981	D	63.4	65.4	2.0	3.2
1982	W	30.3	30.1	-0.2	-0.7
1983	W	26.4	26.4	0.0	0.0
1984	W	44.3	44.3	0.0	0.0
1985	D	63.1	63.2	0.1	0.2
1986	W	30.4	30.5	0.1	0.3
1987	D	71.7	73.7	2.1	2.9
1988	C	59.9	58.5	-1.4	-2.3
1989	D	56.3	59.5	3.2	5.7
1990	C	58.5	60.9	2.4	4.1
1991	C	60.7	62.2	1.6	2.6
Mean:		50.2	51.7	1.5	3.0
Median:		56.3	59.2	0.3	1.3
Min:		22.9	23.2	-1.5	-2.5
Max:		76.1	74.9	9.3	22.0
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					2



Long-term and Water Year Type Average DOC at the Old River at Hwy 4 (CCWD Los Vaqueros) under CEQA Existing Condition and CEQA No Project Alternative Conditions

Analysis Period	Dissolved Organic Carbon (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Long-term</b>												
<b>Full Simulation Period<sup>2</sup></b>												
CEQA Existing Condition	2.5	2.8	3.3	4.3	5.3	5.3	4.7	4.3	3.7	3.1	2.7	2.5
CEQA No Project Alternative	2.5	2.8	3.3	4.3	5.3	5.3	4.7	4.3	3.7	3.1	2.7	2.5
Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Percent Difference <sup>3</sup>	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	-1.1	-0.3	0.4	0.0
<b>Water Year Types<sup>1</sup></b>												
<b>Wet</b>												
CEQA Existing Condition	2.4	2.9	3.9	4.7	5.8	4.9	4.4	4.0	3.4	3.0	2.6	2.4
CEQA No Project Alternative	2.4	2.9	3.9	4.7	5.8	4.9	4.4	4.0	3.4	3.0	2.6	2.4
Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Percent Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.0	1.2	0.4
<b>Above Normal</b>												
CEQA Existing Condition	2.7	2.7	3.0	6.2	7.4	7.8	4.5	4.3	3.8	2.9	2.5	2.4
CEQA No Project Alternative	2.7	2.7	3.0	6.2	7.4	7.8	4.5	4.3	3.8	2.9	2.5	2.4
Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Percent Difference	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.2	0.4
<b>Below Normal</b>												
CEQA Existing Condition	2.6	2.6	2.7	3.9	5.6	5.7	4.7	3.7	3.2	2.7	2.5	2.4
CEQA No Project Alternative	2.6	2.6	2.7	3.9	5.6	5.7	4.7	3.7	3.2	2.7	2.5	2.4
Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Percent Difference	-0.4	0.4	0.0	0.0	0.0	-0.2	0.0	0.0	0.3	0.4	0.4	0.8
<b>Dry</b>												
CEQA Existing Condition	2.6	2.7	3.0	3.4	3.9	4.7	4.9	4.3	3.7	2.9	2.6	2.4
CEQA No Project Alternative	2.6	2.8	3.0	3.4	3.9	4.7	4.9	4.3	3.7	2.9	2.6	2.4
Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Percent Difference	0.0	0.4	0.0	0.0	0.0	0.2	0.2	0.2	-1.3	-0.7	0.4	0.4
<b>Critical</b>												
CEQA Existing Condition	2.6	2.7	3.0	4.1	5.0	5.0	5.0	4.6	4.2	3.4	3.1	2.9
CEQA No Project Alternative	2.6	2.7	3.0	4.1	5.0	5.0	5.0	4.6	4.1	3.4	3.1	2.9
Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0
Percent Difference	0.0	0.0	-0.3	0.2	0.2	0.2	0.2	0.0	-2.9	-1.2	0.3	0.3

1 As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB 1995)

2 Based on the 17-year simulation period

3 Relative difference of the monthly average

**Old River at Hwy 4 (CCWD Los Vaqueros) DOC**

<b>October</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>Dissolved Organic Carbon (mg/L)</b>	<b>Dissolved Organic Carbon (mg/L)</b>		
1975	W	1.1	1.1	0.0	0.0
1976	C	2.4	2.4	0.0	0.0
1977	C	2.7	2.7	0.0	0.0
1978	AN	2.8	2.8	0.0	0.0
1979	BN	2.6	2.6	0.0	0.0
1980	AN	2.5	2.5	0.0	0.0
1981	D	2.6	2.6	0.0	0.0
1982	W	2.4	2.4	0.0	0.0
1983	W	2.8	2.8	0.0	0.0
1984	W	3.3	3.3	0.0	0.0
1985	D	2.4	2.4	0.0	0.0
1986	W	2.4	2.4	0.0	0.0
1987	D	2.4	2.5	0.0	0.0
1988	C	2.6	2.6	0.0	0.0
1989	D	3.0	3.0	0.0	0.0
1990	C	2.4	2.4	0.0	0.0
1991	C	2.8	2.8	0.0	0.0
	Mean:	2.5	2.5	0.0	0.0
	Median:	2.6	2.6	0.0	0.0
	Min:	1.1	1.1	0.0	0.0
	Max:	3.3	3.3	0.0	0.0
	# Years Abs Diff < -0.4			0	
	# Years Abs Diff > 0.4			0	
	# Years Rel Diff <= -10%				0
	# Years Rel Diff >= 10%				0

**Old River at Hwy 4 (CCWD Los Vaqueros) DOC**

<b>November</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>Dissolved Organic Carbon (mg/L)</b>	<b>Dissolved Organic Carbon (mg/L)</b>		
1975	W	2.4	2.4	0.0	0.0
1976	C	2.6	2.6	0.0	0.0
1977	C	2.8	2.8	0.0	0.0
1978	AN	3.0	3.0	0.0	0.0
1979	BN	2.6	2.6	0.0	0.0
1980	AN	2.4	2.5	0.0	0.0
1981	D	2.7	2.7	0.0	0.0
1982	W	2.9	2.9	0.0	0.0
1983	W	3.3	3.3	0.0	0.0
1984	W	3.3	3.3	0.0	0.0
1985	D	2.9	2.9	0.0	0.0
1986	W	2.5	2.5	0.0	0.0
1987	D	2.5	2.6	0.0	0.0
1988	C	2.6	2.6	0.0	0.0
1989	D	2.9	2.9	0.0	0.0
1990	C	2.5	2.5	0.0	0.0
1991	C	3.0	3.1	0.0	0.0
	Mean:	2.8	2.8	0.0	0.0
	Median:	2.7	2.7	0.0	0.0
	Min:	2.4	2.4	0.0	0.0
	Max:	3.3	3.3	0.0	0.0
	# Years Abs Diff < -0.4			0	
	# Years Abs Diff > 0.4			0	
	# Years Rel Diff <= -10%				0
	# Years Rel Diff >= 10%				0

**Old River at Hwy 4 (CCWD Los Vaqueros) DOC**

<b>December</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>Dissolved Organic Carbon (mg/L)</b>	<b>Dissolved Organic Carbon (mg/L)</b>		
1975	W	3.0	3.0	0.0	0.0
1976	C	3.0	3.0	0.0	0.0
1977	C	2.9	2.9	0.0	0.0
1978	AN	3.2	3.2	0.0	0.0
1979	BN	2.7	2.7	0.0	0.0
1980	AN	2.8	2.8	0.0	0.0
1981	D	2.7	2.7	0.0	0.0
1982	W	5.0	5.0	0.0	0.0
1983	W	4.6	4.6	0.0	0.0
1984	W	3.8	3.8	0.0	0.0
1985	D	3.9	3.9	0.0	0.0
1986	W	3.2	3.2	0.0	0.0
1987	D	2.7	2.7	0.0	0.0
1988	C	3.1	3.1	0.0	0.0
1989	D	2.8	2.8	0.0	0.0
1990	C	2.7	2.7	0.0	0.0
1991	C	3.4	3.4	0.0	0.0
	Mean:	3.3	3.3	0.0	0.0
	Median:	3.0	3.0	0.0	0.0
	Min:	2.7	2.7	0.0	0.0
	Max:	5.0	5.0	0.0	0.0
	# Years Abs Diff < -0.4			0	
	# Years Abs Diff > 0.4			0	
	# Years Rel Diff <= -10%				0
	# Years Rel Diff >= 10%				0

**Old River at Hwy 4 (CCWD Los Vaqueros) DOC**

January					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Dissolved Organic Carbon (mg/L)	Dissolved Organic Carbon (mg/L)		
1975	W	3.5	3.5	0.0	0.0
1976	C	3.4	3.4	0.0	0.0
1977	C	3.7	3.7	0.0	0.0
1978	AN	6.5	6.5	0.0	0.0
1979	BN	3.9	3.9	0.0	0.0
1980	AN	5.8	5.8	0.0	0.0
1981	D	3.2	3.2	0.0	0.0
1982	W	6.8	6.8	0.0	0.0
1983	W	3.9	3.9	0.0	0.0
1984	W	4.3	4.3	0.0	0.0
1985	D	4.1	4.0	0.0	0.0
1986	W	4.9	4.9	0.0	0.0
1987	D	3.1	3.1	0.0	0.0
1988	C	5.1	5.1	0.0	0.0
1989	D	3.1	3.1	0.0	0.0
1990	C	3.7	3.7	0.0	0.0
1991	C	4.4	4.4	0.0	0.0
	Mean:	4.3	4.3	0.0	0.0
	Median:	3.9	3.9	0.0	0.0
	Min:	3.1	3.1	0.0	0.0
	Max:	6.8	6.8	0.0	0.0
	# Years Abs Diff < -0.4			0	
	# Years Abs Diff > 0.4			0	
	# Years Rel Diff <= -10%				0
	# Years Rel Diff >= 10%				0

**Old River at Hwy 4 (CCWD Los Vaqueros) DOC**

February					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Dissolved Organic Carbon (mg/L)	Dissolved Organic Carbon (mg/L)		
1975	W	4.6	4.6	0.0	0.0
1976	C	3.4	3.4	0.0	0.0
1977	C	5.3	5.3	0.0	0.0
1978	AN	9.4	9.4	0.0	0.0
1979	BN	5.6	5.6	0.0	0.0
1980	AN	5.4	5.4	0.0	0.0
1981	D	3.7	3.7	0.0	0.0
1982	W	5.8	5.8	0.0	0.0
1983	W	4.8	4.8	0.0	0.0
1984	W	5.0	5.0	0.0	0.0
1985	D	3.8	3.8	0.0	0.0
1986	W	8.8	8.8	0.0	0.0
1987	D	4.1	4.1	0.0	0.0
1988	C	6.0	6.0	0.0	0.0
1989	D	4.2	4.2	0.0	0.0
1990	C	4.9	5.0	0.0	0.0
1991	C	5.5	5.5	0.0	0.0
Mean:		5.3	5.3	0.0	0.0
Median:		5.0	5.0	0.0	0.0
Min:		3.4	3.4	0.0	0.0
Max:		9.4	9.4	0.0	0.0
# Years Abs Diff < -0.4				0	
# Years Abs Diff > 0.4				0	
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**Old River at Hwy 4 (CCWD Los Vaqueros) DOC**

<b>March</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>Dissolved Organic Carbon (mg/L)</b>	<b>Dissolved Organic Carbon (mg/L)</b>		
1975	W	5.3	5.3	0.0	0.0
1976	C	3.3	3.3	0.0	0.0
1977	C	6.1	6.1	0.0	0.0
1978	AN	9.4	9.4	0.0	0.0
1979	BN	5.7	5.7	0.0	0.0
1980	AN	6.2	6.2	0.0	0.0
1981	D	3.9	3.9	0.0	0.0
1982	W	5.2	5.2	0.0	0.0
1983	W	5.4	5.4	0.0	0.0
1984	W	3.2	3.2	0.0	0.0
1985	D	4.0	4.0	0.0	0.0
1986	W	5.4	5.4	0.0	0.0
1987	D	5.6	5.6	0.0	0.0
1988	C	5.6	5.6	0.0	0.0
1989	D	5.2	5.2	0.0	0.0
1990	C	4.9	4.9	0.0	0.0
1991	C	5.2	5.2	0.0	0.0
	Mean:	5.3	5.3	0.0	0.0
	Median:	5.3	5.3	0.0	0.0
	Min:	3.2	3.2	0.0	0.0
	Max:	9.4	9.4	0.0	0.0
	# Years Abs Diff < -0.4			0	
	# Years Abs Diff > 0.4			0	
	# Years Rel Diff <= -10%				0
	# Years Rel Diff >= 10%				0

**Old River at Hwy 4 (CCWD Los Vaqueros) DOC**

<b>April</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>Dissolved Organic Carbon (mg/L)</b>	<b>Dissolved Organic Carbon (mg/L)</b>		
1975	W	4.4	4.4	0.0	0.0
1976	C	3.5	3.5	0.0	0.0
1977	C	5.5	5.5	0.0	0.0
1978	AN	4.6	4.6	0.0	0.0
1979	BN	4.7	4.7	0.0	0.0
1980	AN	4.5	4.5	0.0	0.0
1981	D	3.9	3.9	0.0	0.0
1982	W	4.2	4.2	0.0	0.0
1983	W	5.1	5.1	0.0	0.0
1984	W	3.0	3.0	0.0	0.0
1985	D	4.1	4.1	0.0	0.0
1986	W	5.2	5.2	0.0	0.0
1987	D	5.5	5.5	0.0	0.0
1988	C	4.8	4.8	0.0	0.0
1989	D	6.1	6.1	0.0	0.0
1990	C	4.8	4.8	0.0	0.0
1991	C	6.3	6.3	0.0	0.0
	Mean:	4.7	4.7	0.0	0.0
	Median:	4.7	4.7	0.0	0.0
	Min:	3.0	3.0	0.0	0.0
	Max:	6.3	6.3	0.0	0.0
	# Years Abs Diff < -0.4			0	
	# Years Abs Diff > 0.4			0	
	# Years Rel Diff <= -10%				0
	# Years Rel Diff >= 10%				0



**Old River at Hwy 4 (CCWD Los Vaqueros) DOC**

<b>May</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>Dissolved Organic Carbon (mg/L)</b>	<b>Dissolved Organic Carbon (mg/L)</b>		
1975	W	3.7	3.7	0.0	0.0
1976	C	3.7	3.7	0.0	0.0
1977	C	4.2	4.2	0.0	0.0
1978	AN	4.9	4.9	0.0	0.0
1979	BN	3.7	3.7	0.0	0.0
1980	AN	3.7	3.7	0.0	0.0
1981	D	3.6	3.6	0.0	0.0
1982	W	4.1	4.1	0.0	0.0
1983	W	4.8	4.8	0.0	0.0
1984	W	3.1	3.1	0.0	0.0
1985	D	3.8	3.8	0.0	0.0
1986	W	4.2	4.2	0.0	0.0
1987	D	4.3	4.3	0.0	0.0
1988	C	4.7	4.7	0.0	0.0
1989	D	5.5	5.5	0.0	0.0
1990	C	5.0	4.9	0.0	0.0
1991	C	5.3	5.2	0.0	0.0
	Mean:	4.2	4.2	0.0	0.0
	Median:	4.2	4.2	0.0	0.0
	Min:	3.1	3.1	0.0	0.0
	Max:	5.5	5.5	0.0	0.0
	# Years Abs Diff < -0.4			0	
	# Years Abs Diff > 0.4			0	
	# Years Rel Diff <= -10%				0
	# Years Rel Diff >= 10%				0

**Old River at Hwy 4 (CCWD Los Vaqueros) DOC**

June					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Dissolved Organic Carbon (mg/L)	Dissolved Organic Carbon (mg/L)		
1975	W	3.1	3.1	0.0	0.0
1976	C	3.6	3.5	0.0	0.0
1977	C	4.1	4.0	-0.1	-2.5
1978	AN	4.2	4.2	0.0	0.0
1979	BN	3.2	3.2	0.0	0.0
1980	AN	3.3	3.4	0.0	0.0
1981	D	3.3	3.3	0.0	0.0
1982	W	3.8	3.8	0.0	0.0
1983	W	3.4	3.4	0.0	0.0
1984	W	3.0	3.1	0.0	0.0
1985	D	3.3	3.4	0.0	0.0
1986	W	3.5	3.5	0.0	0.0
1987	D	4.0	3.8	-0.1	-2.5
1988	C	4.6	4.5	-0.1	-2.2
1989	D	4.3	4.3	0.0	0.0
1990	C	4.6	4.4	-0.2	-4.4
1991	C	4.0	3.9	-0.1	-2.5
Mean:		3.7	3.7	0.0	-0.8
Median:		3.6	3.5	0.0	0.0
Min:		3.0	3.1	-0.2	-4.4
Max:		4.6	4.5	0.0	0.0
# Years Abs Diff < -0.4				0	
# Years Abs Diff > 0.4				0	
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**Old River at Hwy 4 (CCWD Los Vaqueros) DOC**

July					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Dissolved Organic Carbon (mg/L)	Dissolved Organic Carbon (mg/L)		
1975	W	2.6	2.7	0.0	0.0
1976	C	3.1	3.1	0.0	0.0
1977	C	3.4	3.3	-0.1	-3.0
1978	AN	3.0	3.0	0.0	0.0
1979	BN	2.7	2.7	0.0	0.0
1980	AN	2.8	2.9	0.0	0.0
1981	D	2.8	2.8	0.0	0.0
1982	W	2.9	2.9	0.0	0.0
1983	W	3.8	3.8	0.0	0.0
1984	W	2.8	2.9	0.1	3.6
1985	D	2.8	2.8	0.0	0.0
1986	W	2.9	2.9	0.1	3.5
1987	D	3.1	3.1	-0.1	-3.2
1988	C	3.6	3.5	-0.1	-2.8
1989	D	3.0	3.0	0.0	0.0
1990	C	3.6	3.6	-0.1	-2.8
1991	C	3.3	3.3	0.0	0.0
	Mean:	3.1	3.1	0.0	-0.3
	Median:	3.0	3.0	0.0	0.0
	Min:	2.6	2.7	-0.1	-3.2
	Max:	3.8	3.8	0.1	3.6
	# Years Abs Diff < -0.4			0	
	# Years Abs Diff > 0.4			0	
	# Years Rel Diff <= -10%				0
	# Years Rel Diff >= 10%				0

**Old River at Hwy 4 (CCWD Los Vaqueros) DOC**

<b>August</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>Dissolved Organic Carbon (mg/L)</b>	<b>Dissolved Organic Carbon (mg/L)</b>		
1975	W	2.5	2.5	0.0	0.0
1976	C	2.8	2.8	0.0	0.0
1977	C	3.1	3.1	0.0	0.0
1978	AN	2.5	2.5	0.0	0.0
1979	BN	2.5	2.5	0.0	0.0
1980	AN	2.5	2.5	0.0	0.0
1981	D	2.6	2.6	0.0	0.0
1982	W	2.5	2.6	0.0	0.0
1983	W	2.7	2.7	0.0	0.0
1984	W	2.5	2.6	0.0	0.0
1985	D	2.5	2.5	0.0	0.0
1986	W	2.5	2.5	0.0	0.0
1987	D	2.7	2.7	0.0	0.0
1988	C	3.5	3.5	-0.1	-2.8
1989	D	2.6	2.6	0.0	0.0
1990	C	3.3	3.4	0.1	3.0
1991	C	2.9	3.0	0.0	0.0
Mean:		2.7	2.7	0.0	0.0
Median:		2.6	2.6	0.0	0.0
Min:		2.5	2.5	-0.1	-2.8
Max:		3.5	3.5	0.1	3.0
# Years Abs Diff < -0.4				0	
# Years Abs Diff > 0.4				0	
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**Old River at Hwy 4 (CCWD Los Vaqueros) DOC**

**September**

Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Dissolved Organic Carbon (mg/L)	Dissolved Organic Carbon (mg/L)		
1975	W	2.3	2.3	0.0	0.0
1976	C	2.6	2.5	0.0	0.0
1977	C	2.9	2.9	0.0	0.0
1978	AN	2.4	2.4	0.0	0.0
1979	BN	2.4	2.4	0.0	0.0
1980	AN	2.4	2.4	0.0	0.0
1981	D	2.4	2.4	0.0	0.0
1982	W	2.4	2.4	0.0	0.0
1983	W	2.5	2.5	0.0	0.0
1984	W	2.4	2.4	0.0	0.0
1985	D	2.3	2.3	0.0	0.0
1986	W	2.3	2.3	0.0	0.0
1987	D	2.5	2.5	0.0	0.0
1988	C	3.2	3.1	0.0	0.0
1989	D	2.4	2.4	0.0	0.0
1990	C	2.9	3.0	0.1	3.4
1991	C	2.7	2.8	0.0	0.0
	Mean:	2.5	2.5	0.0	0.2
	Median:	2.4	2.4	0.0	0.0
	Min:	2.3	2.3	0.0	0.0
	Max:	3.2	3.1	0.1	3.4
	# Years Abs Diff < -0.4			0	
	# Years Abs Diff > 0.4			0	
	# Years Rel Diff <= -10%				0
	# Years Rel Diff >= 10%				0

Long-term and Water Year Type Average DOC at the Old River at Rock Slough (CCWD Intake) under CEQA Existing Condition and CEQA No Project Alternative Conditions

Analysis Period	Dissolved Organic Carbon (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Long-term</b>												
<b>Full Simulation Period<sup>2</sup></b>												
CEQA Existing Condition	2.3	2.5	3.1	4.0	4.9	4.8	4.3	3.8	3.2	2.7	2.4	2.3
CEQA No Project Alternative	2.3	2.5	3.1	4.0	4.9	4.8	4.3	3.8	3.2	2.7	2.5	2.3
Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Percent Difference <sup>3</sup>	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.3	-0.4	0.4	0.4
<b>Water Year Types<sup>1</sup></b>												
<b>Wet</b>												
CEQA Existing Condition	2.2	2.8	3.9	4.6	5.3	4.9	4.2	3.9	3.1	2.7	2.3	2.2
CEQA No Project Alternative	2.2	2.8	3.9	4.6	5.3	4.9	4.2	3.9	3.1	2.7	2.4	2.2
Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Percent Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.5
<b>Above Normal</b>												
CEQA Existing Condition	2.3	2.4	2.8	5.9	8.0	6.8	4.7	3.9	3.3	2.6	2.3	2.2
CEQA No Project Alternative	2.4	2.4	2.8	5.9	8.0	6.8	4.7	3.9	3.3	2.6	2.3	2.2
Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Percent Difference	0.4	0.4	0.0	0.0	0.0	0.0	0.2	0.0	0.3	0.8	0.9	0.5
<b>Below Normal</b>												
CEQA Existing Condition	2.3	2.3	2.4	3.6	5.4	5.1	4.1	3.5	2.9	2.4	2.3	2.2
CEQA No Project Alternative	2.3	2.3	2.4	3.6	5.4	5.1	4.1	3.5	2.9	2.5	2.3	2.2
Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Percent Difference	0.0	0.0	0.0	0.0	0.0	-0.2	-0.2	0.0	0.4	0.4	0.0	0.5
<b>Dry</b>												
CEQA Existing Condition	2.3	2.5	2.8	3.0	3.4	4.2	4.4	3.8	3.2	2.6	2.4	2.2
CEQA No Project Alternative	2.3	2.5	2.8	3.0	3.4	4.2	4.4	3.8	3.1	2.6	2.4	2.2
Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Percent Difference	0.0	0.0	0.0	0.0	-0.3	0.0	0.2	-0.3	-1.3	-0.8	0.0	0.0
<b>Critical</b>												
CEQA Existing Condition	2.3	2.4	2.7	3.7	4.3	4.2	4.1	3.8	3.4	2.9	2.7	2.5
CEQA No Project Alternative	2.3	2.4	2.7	3.7	4.3	4.2	4.1	3.8	3.3	2.9	2.7	2.5
Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0
Percent Difference	0.4	0.0	0.0	0.3	0.2	0.2	0.2	-0.3	-2.6	-1.4	0.0	0.0

1 As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB 1995)

2 Based on the 17-year simulation period

3 Relative difference of the monthly average

**Old River at Rock Slough (CCWD Intake) DOC**

<b>October</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>Dissolved Organic Carbon (mg/L)</b>	<b>Dissolved Organic Carbon (mg/L)</b>		
1975	W	1.0	1.0	0.0	0.0
1976	C	2.1	2.1	0.0	0.0
1977	C	2.4	2.4	0.0	0.0
1978	AN	2.5	2.5	0.0	0.0
1979	BN	2.3	2.3	0.0	0.0
1980	AN	2.2	2.2	0.0	0.0
1981	D	2.3	2.3	0.0	0.0
1982	W	2.1	2.1	0.0	0.0
1983	W	2.6	2.6	0.0	0.0
1984	W	3.3	3.3	0.0	0.0
1985	D	2.2	2.2	0.0	0.0
1986	W	2.1	2.1	0.0	0.0
1987	D	2.2	2.2	0.0	0.0
1988	C	2.3	2.3	0.0	0.0
1989	D	2.6	2.6	0.0	0.0
1990	C	2.1	2.1	0.0	0.0
1991	C	2.5	2.5	0.0	0.0
	Mean:	2.3	2.3	0.0	0.0
	Median:	2.3	2.3	0.0	0.0
	Min:	1.0	1.0	0.0	0.0
	Max:	3.3	3.3	0.0	0.0
	# Years Abs Diff < -0.4			0	
	# Years Abs Diff > 0.4			0	
	# Years Rel Diff <= -10%				0
	# Years Rel Diff >= 10%				0

**Old River at Rock Slough (CCWD Intake) DOC**

<b>November</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>Dissolved Organic Carbon (mg/L)</b>	<b>Dissolved Organic Carbon (mg/L)</b>		
1975	W	2.2	2.2	0.0	0.0
1976	C	2.4	2.4	0.0	0.0
1977	C	2.3	2.3	0.0	0.0
1978	AN	2.6	2.6	0.0	0.0
1979	BN	2.3	2.3	0.0	0.0
1980	AN	2.2	2.3	0.0	0.0
1981	D	2.3	2.3	0.0	0.0
1982	W	2.9	2.9	0.0	0.0
1983	W	3.3	3.3	0.0	0.0
1984	W	3.4	3.4	0.0	0.0
1985	D	2.7	2.8	0.0	0.0
1986	W	2.2	2.2	0.0	0.0
1987	D	2.3	2.3	0.0	0.0
1988	C	2.2	2.2	0.0	0.0
1989	D	2.5	2.5	0.0	0.0
1990	C	2.3	2.3	0.0	0.0
1991	C	2.6	2.6	0.0	0.0
	Mean:	2.5	2.5	0.0	0.0
	Median:	2.3	2.3	0.0	0.0
	Min:	2.2	2.2	0.0	0.0
	Max:	3.4	3.4	0.0	0.0
	# Years Abs Diff < -0.4			0	
	# Years Abs Diff > 0.4			0	
	# Years Rel Diff <= -10%				0
	# Years Rel Diff >= 10%				0



**Old River at Rock Slough (CCWD Intake) DOC**

<b>December</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>Dissolved Organic Carbon (mg/L)</b>	<b>Dissolved Organic Carbon (mg/L)</b>		
1975	W	2.9	2.9	0.0	0.0
1976	C	2.9	2.9	0.0	0.0
1977	C	2.3	2.3	0.0	0.0
1978	AN	3.0	3.0	0.0	0.0
1979	BN	2.4	2.4	0.0	0.0
1980	AN	2.7	2.7	0.0	0.0
1981	D	2.4	2.4	0.0	0.0
1982	W	5.2	5.2	0.0	0.0
1983	W	4.7	4.7	0.0	0.0
1984	W	3.9	3.9	0.0	0.0
1985	D	3.7	3.7	0.0	0.0
1986	W	3.0	3.0	0.0	0.0
1987	D	2.4	2.4	0.0	0.0
1988	C	3.0	3.0	0.0	0.0
1989	D	2.5	2.5	0.0	0.0
1990	C	2.4	2.4	0.0	0.0
1991	C	2.9	2.9	0.0	0.0
	Mean:	3.1	3.1	0.0	0.0
	Median:	2.9	2.9	0.0	0.0
	Min:	2.3	2.3	0.0	0.0
	Max:	5.2	5.2	0.0	0.0
	# Years Abs Diff < -0.4			0	
	# Years Abs Diff > 0.4			0	
	# Years Rel Diff <= -10%				0
	# Years Rel Diff >= 10%				0

**Old River at Rock Slough (CCWD Intake) DOC**

January					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Dissolved Organic Carbon (mg/L)	Dissolved Organic Carbon (mg/L)		
1975	W	3.2	3.2	0.0	0.0
1976	C	3.1	3.1	0.0	0.0
1977	C	3.0	3.0	0.0	0.0
1978	AN	6.2	6.2	0.0	0.0
1979	BN	3.6	3.6	0.0	0.0
1980	AN	5.6	5.6	0.0	0.0
1981	D	2.9	2.9	0.0	0.0
1982	W	5.9	5.9	0.0	0.0
1983	W	4.5	4.5	0.0	0.0
1984	W	4.6	4.7	0.0	0.0
1985	D	3.7	3.7	0.0	0.0
1986	W	4.6	4.6	0.0	0.0
1987	D	2.8	2.8	0.0	0.0
1988	C	4.9	4.9	0.0	0.0
1989	D	2.7	2.7	0.0	0.0
1990	C	3.5	3.6	0.0	0.0
1991	C	3.9	3.9	0.0	0.0
Mean:		4.0	4.0	0.0	0.0
Median:		3.7	3.7	0.0	0.0
Min:		2.7	2.7	0.0	0.0
Max:		6.2	6.2	0.0	0.0
# Years Abs Diff < -0.4				0	
# Years Abs Diff > 0.4				0	
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**Old River at Rock Slough (CCWD Intake) DOC**

February					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Dissolved Organic Carbon (mg/L)	Dissolved Organic Carbon (mg/L)		
1975	W	4.5	4.5	0.0	0.0
1976	C	2.9	2.9	0.0	0.0
1977	C	4.5	4.5	0.0	0.0
1978	AN	8.1	8.1	0.0	0.0
1979	BN	5.4	5.4	0.0	0.0
1980	AN	8.0	8.0	0.0	0.0
1981	D	3.3	3.3	0.0	0.0
1982	W	5.0	5.0	0.0	0.0
1983	W	4.9	4.9	0.0	0.0
1984	W	4.4	4.4	0.0	0.0
1985	D	3.3	3.3	0.0	0.0
1986	W	7.9	7.9	0.0	0.0
1987	D	3.6	3.6	0.0	0.0
1988	C	5.1	5.1	0.0	0.0
1989	D	3.5	3.5	0.0	0.0
1990	C	4.4	4.4	0.0	0.0
1991	C	4.6	4.6	0.0	0.0
	Mean:	4.9	4.9	0.0	0.0
	Median:	4.5	4.5	0.0	0.0
	Min:	2.9	2.9	0.0	0.0
	Max:	8.1	8.1	0.0	0.0
	# Years Abs Diff < -0.4			0	
	# Years Abs Diff > 0.4			0	
	# Years Rel Diff <= -10%				0
	# Years Rel Diff >= 10%				0

**Old River at Rock Slough (CCWD Intake) DOC**

<b>March</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>Dissolved Organic Carbon (mg/L)</b>	<b>Dissolved Organic Carbon (mg/L)</b>		
1975	W	5.2	5.2	0.0	0.0
1976	C	2.9	2.9	0.0	0.0
1977	C	4.9	4.9	0.0	0.0
1978	AN	7.7	7.7	0.0	0.0
1979	BN	5.1	5.1	0.0	0.0
1980	AN	5.8	5.8	0.0	0.0
1981	D	3.4	3.4	0.0	0.0
1982	W	4.3	4.3	0.0	0.0
1983	W	5.5	5.5	0.0	0.0
1984	W	2.8	2.8	0.0	0.0
1985	D	3.4	3.4	0.0	0.0
1986	W	6.9	6.9	0.0	0.0
1987	D	5.1	5.1	0.0	0.0
1988	C	4.3	4.3	0.0	0.0
1989	D	4.9	4.9	0.0	0.0
1990	C	4.1	4.1	0.0	0.0
1991	C	4.8	4.8	0.0	0.0
	Mean:	4.8	4.8	0.0	0.0
	Median:	4.9	4.9	0.0	0.0
	Min:	2.8	2.8	0.0	0.0
	Max:	7.7	7.7	0.0	0.0
	# Years Abs Diff < -0.4			0	
	# Years Abs Diff > 0.4			0	
	# Years Rel Diff <= -10%				0
	# Years Rel Diff >= 10%				0

**Old River at Rock Slough (CCWD Intake) DOC**

<b>April</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>Dissolved Organic Carbon (mg/L)</b>	<b>Dissolved Organic Carbon (mg/L)</b>		
1975	W	4.2	4.2	0.0	0.0
1976	C	3.0	3.0	0.0	0.0
1977	C	4.2	4.2	0.0	0.0
1978	AN	5.5	5.5	0.0	0.0
1979	BN	4.1	4.1	0.0	0.0
1980	AN	3.9	3.9	0.0	0.0
1981	D	3.5	3.5	0.0	0.0
1982	W	4.3	4.3	0.0	0.0
1983	W	5.2	5.2	0.0	0.0
1984	W	2.6	2.6	0.0	0.0
1985	D	3.5	3.5	0.0	0.0
1986	W	4.9	4.9	0.0	0.0
1987	D	4.9	4.9	0.0	0.0
1988	C	3.7	3.7	0.0	0.0
1989	D	5.6	5.6	0.0	0.0
1990	C	4.0	4.0	0.0	0.0
1991	C	5.7	5.7	0.0	0.0
	Mean:	4.3	4.3	0.0	0.0
	Median:	4.2	4.2	0.0	0.0
	Min:	2.6	2.6	0.0	0.0
	Max:	5.7	5.7	0.0	0.0
	# Years Abs Diff < -0.4			0	
	# Years Abs Diff > 0.4			0	
	# Years Rel Diff <= -10%				0
	# Years Rel Diff >= 10%				0

**Old River at Rock Slough (CCWD Intake) DOC**

<b>May</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>Dissolved Organic Carbon (mg/L)</b>	<b>Dissolved Organic Carbon (mg/L)</b>		
1975	W	3.3	3.3	0.0	0.0
1976	C	3.2	3.2	0.0	0.0
1977	C	3.4	3.4	0.0	0.0
1978	AN	4.5	4.5	0.0	0.0
1979	BN	3.5	3.4	0.0	0.0
1980	AN	3.3	3.3	0.0	0.0
1981	D	3.4	3.3	0.0	0.0
1982	W	4.6	4.6	0.0	0.0
1983	W	4.9	4.9	0.0	0.0
1984	W	2.8	2.8	0.0	0.0
1985	D	3.4	3.3	0.0	0.0
1986	W	3.8	3.8	0.0	0.0
1987	D	3.7	3.6	0.0	0.0
1988	C	3.8	3.8	0.0	0.0
1989	D	4.8	4.8	0.0	0.0
1990	C	4.3	4.2	0.0	0.0
1991	C	4.4	4.4	0.0	0.0
Mean:		3.8	3.8	0.0	0.0
Median:		3.7	3.6	0.0	0.0
Min:		2.8	2.8	0.0	0.0
Max:		4.9	4.9	0.0	0.0
# Years Abs Diff < -0.4				0	
# Years Abs Diff > 0.4				0	
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**Old River at Rock Slough (CCWD Intake) DOC**

June					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Dissolved Organic Carbon (mg/L)	Dissolved Organic Carbon (mg/L)		
1975	W	2.6	2.6	0.0	0.0
1976	C	3.1	3.1	0.0	0.0
1977	C	3.4	3.3	-0.1	-2.9
1978	AN	3.6	3.6	0.0	0.0
1979	BN	2.9	2.9	0.0	0.0
1980	AN	3.0	3.0	0.0	0.0
1981	D	3.0	2.9	0.0	0.0
1982	W	3.3	3.3	0.0	0.0
1983	W	3.5	3.5	0.0	0.0
1984	W	2.7	2.7	0.0	0.0
1985	D	2.9	3.0	0.0	0.0
1986	W	3.1	3.1	0.0	0.0
1987	D	3.3	3.2	-0.1	-3.1
1988	C	3.6	3.5	-0.1	-2.8
1989	D	3.4	3.4	0.0	0.0
1990	C	3.7	3.5	-0.2	-5.4
1991	C	3.2	3.1	-0.1	-3.1
	Mean:	3.2	3.2	0.0	-1.0
	Median:	3.2	3.1	0.0	0.0
	Min:	2.6	2.6	-0.2	-5.4
	Max:	3.7	3.6	0.0	0.0
	# Years Abs Diff < -0.4			0	
	# Years Abs Diff > 0.4			0	
	# Years Rel Diff <= -10%				0
	# Years Rel Diff >= 10%				0

**Old River at Rock Slough (CCWD Intake) DOC**

July					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Dissolved Organic Carbon (mg/L)	Dissolved Organic Carbon (mg/L)		
1975	W	2.4	2.4	0.0	0.0
1976	C	2.7	2.7	0.0	0.0
1977	C	2.9	2.9	0.0	0.0
1978	AN	2.6	2.7	0.0	0.0
1979	BN	2.4	2.4	0.0	0.0
1980	AN	2.5	2.5	0.0	0.0
1981	D	2.6	2.5	0.0	0.0
1982	W	2.5	2.5	0.0	0.0
1983	W	3.5	3.5	0.0	0.0
1984	W	2.5	2.5	0.0	0.0
1985	D	2.5	2.5	0.0	0.0
1986	W	2.6	2.6	0.0	0.0
1987	D	2.7	2.7	0.0	0.0
1988	C	3.0	3.0	-0.1	-3.3
1989	D	2.6	2.6	0.0	0.0
1990	C	3.1	3.0	0.0	0.0
1991	C	2.8	2.8	0.0	0.0
Mean:		2.7	2.7	0.0	-0.2
Median:		2.6	2.6	0.0	0.0
Min:		2.4	2.4	-0.1	-3.3
Max:		3.5	3.5	0.0	0.0
# Years Abs Diff < -0.4				0	
# Years Abs Diff > 0.4				0	
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0



**Old River at Rock Slough (CCWD Intake) DOC**

<b>August</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>Dissolved Organic Carbon (mg/L)</b>	<b>Dissolved Organic Carbon (mg/L)</b>		
1975	W	2.3	2.3	0.0	0.0
1976	C	2.5	2.5	0.0	0.0
1977	C	2.7	2.7	0.0	0.0
1978	AN	2.3	2.3	0.0	0.0
1979	BN	2.3	2.3	0.0	0.0
1980	AN	2.3	2.3	0.0	0.0
1981	D	2.4	2.4	0.0	0.0
1982	W	2.3	2.3	0.0	0.0
1983	W	2.5	2.5	0.0	0.0
1984	W	2.3	2.3	0.0	0.0
1985	D	2.3	2.3	0.0	0.0
1986	W	2.3	2.3	0.0	0.0
1987	D	2.4	2.4	0.0	0.0
1988	C	3.0	3.0	0.0	0.0
1989	D	2.3	2.3	0.0	0.0
1990	C	2.8	2.9	0.1	3.5
1991	C	2.6	2.6	0.0	0.0
	Mean:	2.4	2.4	0.0	0.2
	Median:	2.3	2.3	0.0	0.0
	Min:	2.3	2.3	0.0	0.0
	Max:	3.0	3.0	0.1	3.5
	# Years Abs Diff < -0.4			0	
	# Years Abs Diff > 0.4			0	
	# Years Rel Diff <= -10%				0
	# Years Rel Diff >= 10%				0

**Old River at Rock Slough (CCWD Intake) DOC**

**September**

Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Dissolved Organic Carbon (mg/L)	Dissolved Organic Carbon (mg/L)		
1975	W	2.2	2.2	0.0	0.0
1976	C	2.3	2.3	0.0	0.0
1977	C	2.5	2.5	0.0	0.0
1978	AN	2.2	2.2	0.0	0.0
1979	BN	2.2	2.2	0.0	0.0
1980	AN	2.2	2.2	0.0	0.0
1981	D	2.2	2.2	0.0	0.0
1982	W	2.1	2.2	0.0	0.0
1983	W	2.2	2.2	0.0	0.0
1984	W	2.2	2.2	0.0	0.0
1985	D	2.1	2.1	0.0	0.0
1986	W	2.2	2.2	0.0	0.0
1987	D	2.3	2.3	0.0	0.0
1988	C	2.7	2.7	0.0	0.0
1989	D	2.2	2.2	0.0	0.0
1990	C	2.6	2.6	0.0	0.0
1991	C	2.4	2.5	0.0	0.0
	Mean:	2.3	2.3	0.0	0.0
	Median:	2.2	2.2	0.0	0.0
	Min:	2.1	2.1	0.0	0.0
	Max:	2.7	2.7	0.0	0.0
	# Years Abs Diff < -0.4			0	
	# Years Abs Diff > 0.4			0	
	# Years Rel Diff <= -10%				0
	# Years Rel Diff >= 10%				0

Long-term and Water Year Type Average DOC at West Canal at the mouth of CCF (SWP Banks) under CEQA Existing Condition and CEQA No Project Alternative Conditions

Analysis Period	Dissolved Organic Carbon (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Long-term</b>												
<b>Full Simulation Period<sup>2</sup></b>												
CEQA Existing Condition	2.7	2.9	3.3	4.4	5.2	5.0	4.7	4.3	4.0	3.3	2.9	2.7
CEQA No Project Alternative	2.7	2.9	3.3	4.4	5.2	5.0	4.7	4.3	3.9	3.3	2.9	2.7
Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Percent Difference <sup>3</sup>	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	-0.8	0.0	0.7	0.4
<b>Water Year Types<sup>1</sup></b>												
<b>Wet</b>												
CEQA Existing Condition	2.5	2.9	3.7	4.8	5.7	4.6	4.2	3.9	3.5	3.1	2.7	2.5
CEQA No Project Alternative	2.5	2.9	3.7	4.8	5.7	4.6	4.2	3.9	3.5	3.1	2.7	2.5
Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Percent Difference	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	0.0	0.3	1.3	1.1	0.4
<b>Above Normal</b>												
CEQA Existing Condition	2.8	2.8	3.1	6.4	7.1	5.8	4.1	3.8	3.7	3.1	2.7	2.5
CEQA No Project Alternative	2.8	2.9	3.1	6.4	7.1	5.8	4.1	3.8	3.7	3.2	2.7	2.5
Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Percent Difference	0.0	0.4	0.3	0.0	0.1	0.0	0.0	0.0	0.3	1.0	1.1	0.4
<b>Below Normal</b>												
CEQA Existing Condition	2.8	2.9	2.9	3.9	5.3	5.8	4.8	3.8	3.4	2.9	2.6	2.5
CEQA No Project Alternative	2.8	2.9	2.9	3.9	5.3	5.8	4.8	3.8	3.4	2.9	2.6	2.6
Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Percent Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.7	0.4	0.8
<b>Dry</b>												
CEQA Existing Condition	2.8	2.9	3.1	3.5	3.9	4.8	5.1	4.5	4.0	3.2	2.7	2.5
CEQA No Project Alternative	2.8	2.9	3.1	3.5	3.9	4.8	5.1	4.5	4.0	3.1	2.7	2.5
Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Percent Difference	0.0	0.3	0.0	0.0	0.0	0.2	0.2	0.2	-0.7	-0.6	0.7	0.4
<b>Critical</b>												
CEQA Existing Condition	2.7	2.9	3.1	4.0	4.9	5.1	5.2	4.9	4.5	3.7	3.3	3.1
CEQA No Project Alternative	2.7	2.9	3.1	4.0	4.9	5.1	5.2	4.9	4.5	3.7	3.3	3.1
Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	-0.1	0.0	0.0
Percent Difference	0.4	0.4	0.0	0.0	0.2	0.2	0.0	0.2	-1.8	-1.9	0.0	0.0

1 As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB 1995)

2 Based on the 17-year simulation period

3 Relative difference of the monthly average

**West Canal at the mouth of CCF (SWP Banks) DOC**

<b>October</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>Dissolved Organic Carbon (mg/L)</b>	<b>Dissolved Organic Carbon (mg/L)</b>		
1975	W	1.2	1.2	0.0	0.0
1976	C	2.6	2.6	0.0	0.0
1977	C	2.8	2.8	0.0	0.0
1978	AN	3.0	3.0	0.0	0.0
1979	BN	2.8	2.8	0.0	0.0
1980	AN	2.6	2.6	0.0	0.0
1981	D	2.8	2.8	0.0	0.0
1982	W	2.5	2.5	0.0	0.0
1983	W	3.1	3.1	0.0	0.0
1984	W	3.1	3.1	0.0	0.0
1985	D	2.6	2.6	0.0	0.0
1986	W	2.5	2.5	0.0	0.0
1987	D	2.6	2.6	0.0	0.0
1988	C	2.7	2.7	0.0	0.0
1989	D	3.2	3.1	0.0	0.0
1990	C	2.5	2.5	0.0	0.0
1991	C	3.0	3.0	0.1	3.4
Mean:		2.7	2.7	0.0	0.2
Median:		2.7	2.7	0.0	0.0
Min:		1.2	1.2	0.0	0.0
Max:		3.2	3.1	0.1	3.4
# Years Abs Diff < -0.4				0	
# Years Abs Diff > 0.4				0	
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**West Canal at the mouth of CCF (SWP Banks) DOC**

<b>November</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>Dissolved Organic Carbon (mg/L)</b>	<b>Dissolved Organic Carbon (mg/L)</b>		
1975	W	2.6	2.6	0.0	0.0
1976	C	2.7	2.7	0.0	0.0
1977	C	3.1	3.1	0.0	0.0
1978	AN	3.1	3.1	0.0	0.0
1979	BN	2.9	2.9	0.0	0.0
1980	AN	2.6	2.6	0.0	0.0
1981	D	2.9	2.9	0.0	0.0
1982	W	2.9	2.9	0.0	0.0
1983	W	3.3	3.3	0.0	0.0
1984	W	3.2	3.2	0.0	0.0
1985	D	2.9	2.9	0.0	0.0
1986	W	2.7	2.7	0.0	0.0
1987	D	2.7	2.8	0.0	0.0
1988	C	2.8	2.8	0.0	0.0
1989	D	3.1	3.1	0.0	0.0
1990	C	2.6	2.6	0.0	0.0
1991	C	3.0	3.0	0.0	0.0
	Mean:	2.9	2.9	0.0	0.0
	Median:	2.9	2.9	0.0	0.0
	Min:	2.6	2.6	0.0	0.0
	Max:	3.3	3.3	0.0	0.0
	# Years Abs Diff < -0.4			0	
	# Years Abs Diff > 0.4			0	
	# Years Rel Diff <= -10%				0
	# Years Rel Diff >= 10%				0

**West Canal at the mouth of CCF (SWP Banks) DOC**

<b>December</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>Dissolved Organic Carbon (mg/L)</b>	<b>Dissolved Organic Carbon (mg/L)</b>		
1975	W	3.1	3.1	0.0	0.0
1976	C	3.1	3.1	0.0	0.0
1977	C	3.3	3.3	0.0	0.0
1978	AN	3.2	3.2	0.0	0.0
1979	BN	2.8	2.8	0.0	0.0
1980	AN	2.9	2.9	0.0	0.0
1981	D	2.8	2.8	0.0	0.0
1982	W	4.7	4.7	0.0	0.0
1983	W	3.7	3.7	0.0	0.0
1984	W	3.7	3.7	0.0	0.0
1985	D	3.9	3.9	0.0	0.0
1986	W	3.3	3.3	0.0	0.0
1987	D	2.8	2.8	0.0	0.0
1988	C	3.2	3.2	0.0	0.0
1989	D	3.0	3.0	0.0	0.0
1990	C	2.9	2.8	0.0	0.0
1991	C	3.3	3.3	0.0	0.0
	Mean:	3.3	3.3	0.0	0.0
	Median:	3.2	3.2	0.0	0.0
	Min:	2.8	2.8	0.0	0.0
	Max:	4.7	4.7	0.0	0.0
	# Years Abs Diff < -0.4			0	
	# Years Abs Diff > 0.4			0	
	# Years Rel Diff <= -10%				0
	# Years Rel Diff >= 10%				0

**West Canal at the mouth of CCF (SWP Banks) DOC**

January					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Dissolved Organic Carbon (mg/L)	Dissolved Organic Carbon (mg/L)		
1975	W	3.7	3.7	0.0	0.0
1976	C	3.5	3.5	0.0	0.0
1977	C	3.6	3.6	0.0	0.0
1978	AN	6.5	6.5	0.0	0.0
1979	BN	3.9	3.9	0.0	0.0
1980	AN	6.3	6.3	0.0	0.0
1981	D	3.3	3.3	0.0	0.0
1982	W	7.4	7.4	0.0	0.0
1983	W	3.8	3.8	0.0	0.0
1984	W	4.3	4.3	0.0	0.0
1985	D	4.3	4.3	0.0	0.0
1986	W	4.9	4.9	0.0	0.0
1987	D	3.3	3.3	0.0	0.0
1988	C	5.1	5.1	0.0	0.0
1989	D	3.3	3.3	0.0	0.0
1990	C	3.7	3.7	0.0	0.0
1991	C	3.8	3.8	0.0	0.0
	Mean:	4.4	4.4	0.0	0.0
	Median:	3.8	3.8	0.0	0.0
	Min:	3.3	3.3	0.0	0.0
	Max:	7.4	7.4	0.0	0.0
	# Years Abs Diff < -0.4			0	
	# Years Abs Diff > 0.4			0	
	# Years Rel Diff <= -10%				0
	# Years Rel Diff >= 10%				0

**West Canal at the mouth of CCF (SWP Banks) DOC**

February					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Dissolved Organic Carbon (mg/L)	Dissolved Organic Carbon (mg/L)		
1975	W	4.6	4.6	0.0	0.0
1976	C	3.6	3.6	0.0	0.0
1977	C	4.6	4.6	0.0	0.0
1978	AN	9.9	9.9	0.0	0.0
1979	BN	5.3	5.3	0.0	0.0
1980	AN	4.2	4.2	0.0	0.0
1981	D	3.9	3.9	0.0	0.0
1982	W	5.7	5.7	0.0	0.0
1983	W	4.5	4.5	0.0	0.0
1984	W	4.0	4.0	0.0	0.0
1985	D	4.0	4.0	0.0	0.0
1986	W	9.9	9.9	0.0	0.0
1987	D	4.0	4.0	0.0	0.0
1988	C	6.4	6.4	0.0	0.0
1989	D	3.8	3.8	0.0	0.0
1990	C	5.1	5.1	0.0	0.0
1991	C	4.7	4.7	0.0	0.0
Mean:		5.2	5.2	0.0	0.0
Median:		4.6	4.6	0.0	0.0
Min:		3.6	3.6	0.0	0.0
Max:		9.9	9.9	0.0	0.0
# Years Abs Diff < -0.4				0	
# Years Abs Diff > 0.4				0	
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0



**West Canal at the mouth of CCF (SWP Banks) DOC**

<b>March</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>Dissolved Organic Carbon (mg/L)</b>	<b>Dissolved Organic Carbon (mg/L)</b>		
1975	W	5.0	5.0	0.0	0.0
1976	C	3.5	3.5	0.0	0.0
1977	C	5.3	5.3	0.0	0.0
1978	AN	6.9	6.9	0.0	0.0
1979	BN	5.8	5.8	0.0	0.0
1980	AN	4.7	4.7	0.0	0.0
1981	D	4.1	4.1	0.0	0.0
1982	W	4.3	4.3	0.0	0.0
1983	W	5.3	5.3	0.0	0.0
1984	W	3.4	3.4	0.0	0.0
1985	D	4.1	4.2	0.0	0.0
1986	W	4.9	4.9	0.0	0.0
1987	D	5.4	5.4	0.0	0.0
1988	C	5.9	5.9	0.0	0.0
1989	D	5.4	5.3	0.0	0.0
1990	C	5.4	5.4	0.0	0.0
1991	C	5.4	5.4	0.0	0.0
	Mean:	5.0	5.0	0.0	0.0
	Median:	5.3	5.3	0.0	0.0
	Min:	3.4	3.4	0.0	0.0
	Max:	6.9	6.9	0.0	0.0
	# Years Abs Diff < -0.4			0	
	# Years Abs Diff > 0.4			0	
	# Years Rel Diff <= -10%				0
	# Years Rel Diff >= 10%				0

**West Canal at the mouth of CCF (SWP Banks) DOC**

<b>April</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>Dissolved Organic Carbon (mg/L)</b>	<b>Dissolved Organic Carbon (mg/L)</b>		
1975	W	4.3	4.3	0.0	0.0
1976	C	3.5	3.5	0.0	0.0
1977	C	5.5	5.5	0.0	0.0
1978	AN	4.1	4.1	0.0	0.0
1979	BN	4.8	4.8	0.0	0.0
1980	AN	4.1	4.1	0.0	0.0
1981	D	4.0	4.0	0.0	0.0
1982	W	4.1	4.1	0.0	0.0
1983	W	5.2	5.2	0.0	0.0
1984	W	3.1	3.1	0.0	0.0
1985	D	4.3	4.3	0.0	0.0
1986	W	4.4	4.4	0.0	0.0
1987	D	5.9	5.9	0.0	0.0
1988	C	5.4	5.5	0.0	0.0
1989	D	6.3	6.3	0.0	0.0
1990	C	5.0	5.0	0.0	0.0
1991	C	6.3	6.3	0.0	0.0
	Mean:	4.7	4.7	0.0	0.0
	Median:	4.4	4.4	0.0	0.0
	Min:	3.1	3.1	0.0	0.0
	Max:	6.3	6.3	0.0	0.0
	# Years Abs Diff < -0.4			0	
	# Years Abs Diff > 0.4			0	
	# Years Rel Diff <= -10%				0
	# Years Rel Diff >= 10%				0

**West Canal at the mouth of CCF (SWP Banks) DOC**

<b>May</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>Dissolved Organic Carbon (mg/L)</b>	<b>Dissolved Organic Carbon (mg/L)</b>		
1975	W	3.8	3.8	0.0	0.0
1976	C	3.5	3.5	0.0	0.0
1977	C	5.0	5.0	0.0	0.0
1978	AN	4.1	4.1	0.0	0.0
1979	BN	3.8	3.8	0.0	0.0
1980	AN	3.6	3.6	0.0	0.0
1981	D	3.7	3.7	0.0	0.0
1982	W	3.9	3.9	0.0	0.0
1983	W	4.8	4.8	0.0	0.0
1984	W	3.1	3.1	0.0	0.0
1985	D	3.8	3.8	0.0	0.0
1986	W	3.9	3.9	0.0	0.0
1987	D	4.8	4.8	0.0	0.0
1988	C	4.9	4.9	0.0	0.0
1989	D	5.7	5.7	0.0	0.0
1990	C	5.0	5.0	0.0	0.0
1991	C	5.9	5.9	0.0	0.0
Mean:		4.3	4.3	0.0	0.0
Median:		3.9	3.9	0.0	0.0
Min:		3.1	3.1	0.0	0.0
Max:		5.9	5.9	0.0	0.0
# Years Abs Diff < -0.4				0	
# Years Abs Diff > 0.4				0	
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**West Canal at the mouth of CCF (SWP Banks) DOC**

June					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Dissolved Organic Carbon (mg/L)	Dissolved Organic Carbon (mg/L)		
1975	W	3.4	3.4	0.0	0.0
1976	C	3.7	3.7	0.0	0.0
1977	C	4.4	4.3	-0.1	-2.3
1978	AN	3.9	3.9	0.0	0.0
1979	BN	3.4	3.4	0.0	0.0
1980	AN	3.5	3.5	0.0	0.0
1981	D	3.5	3.4	0.0	0.0
1982	W	3.8	3.8	0.0	0.0
1983	W	3.6	3.6	0.0	0.0
1984	W	3.2	3.2	0.0	0.0
1985	D	3.5	3.5	0.0	0.0
1986	W	3.6	3.6	0.0	0.0
1987	D	4.3	4.2	-0.1	-2.3
1988	C	4.8	4.8	0.0	0.0
1989	D	4.8	4.8	0.0	0.0
1990	C	4.8	4.7	-0.1	-2.1
1991	C	4.9	4.7	-0.2	-4.1
Mean:		3.9	3.9	0.0	-0.6
Median:		3.7	3.7	0.0	0.0
Min:		3.2	3.2	-0.2	-4.1
Max:		4.9	4.8	0.0	0.0
# Years Abs Diff < -0.4				0	
# Years Abs Diff > 0.4				0	
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**West Canal at the mouth of CCF (SWP Banks) DOC**

July					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Dissolved Organic Carbon (mg/L)	Dissolved Organic Carbon (mg/L)		
1975	W	2.8	2.8	0.0	0.0
1976	C	3.4	3.3	0.0	0.0
1977	C	3.7	3.6	-0.1	-2.7
1978	AN	3.2	3.2	0.0	0.0
1979	BN	2.9	2.9	0.0	0.0
1980	AN	3.1	3.1	0.0	0.0
1981	D	3.0	3.0	0.0	0.0
1982	W	3.1	3.1	0.0	0.0
1983	W	3.5	3.5	0.0	0.0
1984	W	3.0	3.1	0.1	3.3
1985	D	2.9	3.0	0.0	0.0
1986	W	3.1	3.2	0.1	3.2
1987	D	3.4	3.4	-0.1	-2.9
1988	C	3.9	3.9	-0.1	-2.5
1989	D	3.2	3.2	0.0	0.0
1990	C	4.0	3.9	-0.1	-2.5
1991	C	3.7	3.6	-0.1	-2.7
Mean:		3.3	3.3	0.0	-0.4
Median:		3.2	3.2	0.0	0.0
Min:		2.8	2.8	-0.1	-2.9
Max:		4.0	3.9	0.1	3.3
# Years Abs Diff < -0.4				0	
# Years Abs Diff > 0.4				0	
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**West Canal at the mouth of CCF (SWP Banks) DOC**

<b>August</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>Dissolved Organic Carbon (mg/L)</b>	<b>Dissolved Organic Carbon (mg/L)</b>		
1975	W	2.6	2.6	0.0	0.0
1976	C	3.0	3.0	0.0	0.0
1977	C	3.3	3.2	0.0	0.0
1978	AN	2.7	2.7	0.0	0.0
1979	BN	2.6	2.6	0.0	0.0
1980	AN	2.6	2.7	0.0	0.0
1981	D	2.7	2.7	0.0	0.0
1982	W	2.7	2.7	0.1	3.7
1983	W	2.9	2.9	0.0	0.0
1984	W	2.7	2.7	0.0	0.0
1985	D	2.6	2.6	0.0	0.0
1986	W	2.6	2.7	0.0	0.0
1987	D	2.9	2.9	0.0	0.0
1988	C	3.5	3.5	0.0	0.0
1989	D	2.7	2.7	0.0	0.0
1990	C	3.5	3.5	0.0	0.0
1991	C	3.2	3.2	0.1	3.2
Mean:		2.9	2.9	0.0	0.4
Median:		2.7	2.7	0.0	0.0
Min:		2.6	2.6	0.0	0.0
Max:		3.5	3.5	0.1	3.7
# Years Abs Diff < -0.4				0	
# Years Abs Diff > 0.4				0	
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**West Canal at the mouth of CCF (SWP Banks) DOC**

**September**

Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Dissolved Organic Carbon (mg/L)	Dissolved Organic Carbon (mg/L)		
1975	W	2.4	2.5	0.0	0.0
1976	C	2.7	2.7	0.0	0.0
1977	C	3.1	3.1	0.0	0.0
1978	AN	2.5	2.5	0.0	0.0
1979	BN	2.5	2.5	0.0	0.0
1980	AN	2.5	2.5	0.0	0.0
1981	D	2.6	2.6	0.0	0.0
1982	W	2.5	2.5	0.0	0.0
1983	W	2.6	2.6	0.0	0.0
1984	W	2.5	2.5	0.0	0.0
1985	D	2.4	2.4	0.0	0.0
1986	W	2.4	2.5	0.0	0.0
1987	D	2.6	2.6	0.0	0.0
1988	C	3.4	3.4	0.0	0.0
1989	D	2.5	2.5	0.0	0.0
1990	C	3.2	3.2	0.1	3.1
1991	C	2.9	2.9	0.0	0.0
	Mean:	2.7	2.7	0.0	0.2
	Median:	2.5	2.5	0.0	0.0
	Min:	2.4	2.4	0.0	0.0
	Max:	3.4	3.4	0.1	3.1
	# Years Abs Diff < -0.4			0	
	# Years Abs Diff > 0.4			0	
	# Years Rel Diff <= -10%				0
	# Years Rel Diff >= 10%				0

Long-term and Water Year Type Average DOC at the Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) under CEQA Existing Condition and CEQA No Project Alternative Conditions

Analysis Period	Dissolved Organic Carbon (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Long-term</b>												
<b>Full Simulation Period<sup>2</sup></b>												
CEQA Existing Condition	2.7	2.9	3.4	4.6	5.0	4.7	4.4	4.2	3.8	3.3	2.9	2.8
CEQA No Project Alternative	2.7	2.9	3.4	4.6	5.0	4.7	4.4	4.2	3.8	3.3	3.0	2.8
Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Percent Difference <sup>3</sup>	0.4	0.0	0.3	0.0	0.0	0.0	0.0	0.0	-0.8	0.0	0.7	0.4
<b>Water Year Types<sup>1</sup></b>												
<b>Wet</b>												
CEQA Existing Condition	2.6	2.9	3.8	5.1	5.7	4.2	4.0	3.8	3.4	3.1	2.8	2.8
CEQA No Project Alternative	2.6	2.9	3.8	5.1	5.7	4.2	4.0	3.8	3.4	3.2	2.8	2.8
Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Percent Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	1.6	1.1	0.4
<b>Above Normal</b>												
CEQA Existing Condition	2.8	2.9	3.0	7.3	7.4	4.4	3.8	3.8	3.4	3.2	2.7	2.7
CEQA No Project Alternative	2.8	2.9	3.0	7.3	7.4	4.4	3.8	3.8	3.4	3.2	2.8	2.7
Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Percent Difference	0.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.1	0.4
<b>Below Normal</b>												
CEQA Existing Condition	2.8	2.8	3.0	4.1	5.2	5.8	4.1	3.7	3.4	2.9	2.7	2.7
CEQA No Project Alternative	2.8	2.8	3.0	4.1	5.2	5.8	4.1	3.7	3.4	2.9	2.7	2.7
Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Percent Difference	0.0	0.0	0.3	-0.2	0.0	0.0	0.0	0.0	0.3	0.7	0.4	0.7
<b>Dry</b>												
CEQA Existing Condition	2.8	2.9	3.3	3.5	3.8	4.6	4.7	4.4	3.9	3.1	2.8	2.7
CEQA No Project Alternative	2.8	2.9	3.3	3.5	3.8	4.6	4.7	4.4	3.9	3.1	2.8	2.7
Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Percent Difference	0.0	0.3	0.0	-0.3	0.0	0.0	0.2	0.2	-0.8	-0.3	0.4	0.4
<b>Critical</b>												
CEQA Existing Condition	2.7	2.9	3.3	3.9	4.3	5.1	4.9	4.8	4.4	3.7	3.3	3.1
CEQA No Project Alternative	2.8	2.9	3.3	3.9	4.4	5.1	4.9	4.8	4.3	3.6	3.3	3.1
Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	-0.1	0.0	0.0
Percent Difference	0.4	0.3	0.0	0.0	0.2	0.0	0.0	0.0	-2.1	-1.6	0.0	0.3

1 As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB 1995)

2 Based on the 17-year simulation period

3 Relative difference of the monthly average



**Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) DOC**

<b>October</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>Dissolved Organic Carbon (mg/L)</b>	<b>Dissolved Organic Carbon (mg/L)</b>		
1975	W	1.3	1.3	0.0	0.0
1976	C	2.6	2.6	0.0	0.0
1977	C	2.9	2.9	0.0	0.0
1978	AN	3.0	3.0	0.0	0.0
1979	BN	2.8	2.8	0.0	0.0
1980	AN	2.6	2.7	0.0	0.0
1981	D	2.8	2.8	0.0	0.0
1982	W	2.6	2.6	0.0	0.0
1983	W	3.3	3.3	0.0	0.0
1984	W	3.4	3.4	0.0	0.0
1985	D	2.6	2.6	0.0	0.0
1986	W	2.5	2.5	0.0	0.0
1987	D	2.6	2.7	0.0	0.0
1988	C	2.8	2.8	0.0	0.0
1989	D	3.2	3.1	0.0	0.0
1990	C	2.5	2.5	0.0	0.0
1991	C	3.0	3.0	0.0	0.0
	Mean:	2.7	2.7	0.0	0.0
	Median:	2.8	2.8	0.0	0.0
	Min:	1.3	1.3	0.0	0.0
	Max:	3.4	3.4	0.0	0.0
	# Years Abs Diff < -0.4			0	
	# Years Abs Diff > 0.4			0	
	# Years Rel Diff <= -10%				0
	# Years Rel Diff >= 10%				0

**Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) DOC**

<b>November</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>Dissolved Organic Carbon (mg/L)</b>	<b>Dissolved Organic Carbon (mg/L)</b>		
1975	W	2.6	2.6	0.0	0.0
1976	C	2.7	2.7	0.0	0.0
1977	C	3.1	3.1	0.0	0.0
1978	AN	3.1	3.1	0.0	0.0
1979	BN	2.8	2.8	0.0	0.0
1980	AN	2.6	2.6	0.0	0.0
1981	D	2.9	2.9	0.0	0.0
1982	W	2.9	2.9	0.0	0.0
1983	W	3.1	3.1	0.0	0.0
1984	W	3.2	3.2	0.0	0.0
1985	D	3.0	3.0	0.0	0.0
1986	W	2.7	2.7	0.0	0.0
1987	D	2.7	2.8	0.0	0.0
1988	C	2.8	2.8	0.0	0.0
1989	D	3.1	3.1	0.0	0.0
1990	C	2.7	2.7	0.0	0.0
1991	C	3.1	3.1	0.0	0.0
	Mean:	2.9	2.9	0.0	0.0
	Median:	2.9	2.9	0.0	0.0
	Min:	2.6	2.6	0.0	0.0
	Max:	3.2	3.2	0.0	0.0
	# Years Abs Diff < -0.4			0	
	# Years Abs Diff > 0.4			0	
	# Years Rel Diff <= -10%				0
	# Years Rel Diff >= 10%				0

### Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) DOC

December					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Dissolved Organic Carbon (mg/L)	Dissolved Organic Carbon (mg/L)		
1975	W	3.3	3.3	0.0	0.0
1976	C	3.3	3.3	0.0	0.0
1977	C	3.7	3.7	0.0	0.0
1978	AN	3.0	3.0	0.0	0.0
1979	BN	3.0	3.0	0.0	0.0
1980	AN	2.9	2.9	0.0	0.0
1981	D	2.9	2.9	0.0	0.0
1982	W	4.2	4.2	0.0	0.0
1983	W	3.6	3.6	0.0	0.0
1984	W	3.8	3.8	0.0	0.0
1985	D	3.9	3.9	0.0	0.0
1986	W	4.0	4.0	0.0	0.0
1987	D	3.0	3.0	0.0	0.0
1988	C	3.3	3.3	0.0	0.0
1989	D	3.2	3.2	0.0	0.0
1990	C	3.1	3.1	0.0	0.0
1991	C	3.2	3.2	0.0	0.0
Mean:		3.4	3.4	0.0	0.0
Median:		3.3	3.3	0.0	0.0
Min:		2.9	2.9	0.0	0.0
Max:		4.2	4.2	0.0	0.0
# Years Abs Diff < -0.4				0	
# Years Abs Diff > 0.4				0	
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) DOC**

<b>January</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>Dissolved Organic Carbon (mg/L)</b>	<b>Dissolved Organic Carbon (mg/L)</b>		
1975	W	3.7	3.7	0.0	0.0
1976	C	3.5	3.5	0.0	0.0
1977	C	4.2	4.2	0.0	0.0
1978	AN	7.4	7.4	0.0	0.0
1979	BN	4.1	4.1	0.0	0.0
1980	AN	7.3	7.3	0.0	0.0
1981	D	3.4	3.4	0.0	0.0
1982	W	8.2	8.2	0.0	0.0
1983	W	4.0	4.0	0.0	0.0
1984	W	4.3	4.3	0.0	0.0
1985	D	4.1	4.1	0.0	0.0
1986	W	5.2	5.2	0.0	0.0
1987	D	3.2	3.2	0.0	0.0
1988	C	4.9	4.9	0.0	0.0
1989	D	3.4	3.4	0.0	0.0
1990	C	3.7	3.8	0.0	0.0
1991	C	3.2	3.2	0.0	0.0
Mean:		4.6	4.6	0.0	0.0
Median:		4.1	4.1	0.0	0.0
Min:		3.2	3.2	0.0	0.0
Max:		8.2	8.2	0.0	0.0
# Years Abs Diff < -0.4				0	
# Years Abs Diff > 0.4				0	
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) DOC**

<b>February</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>Dissolved Organic Carbon (mg/L)</b>	<b>Dissolved Organic Carbon (mg/L)</b>		
1975	W	4.6	4.6	0.0	0.0
1976	C	3.4	3.4	0.0	0.0
1977	C	4.0	4.0	0.0	0.0
1978	AN	10.7	10.7	0.0	0.0
1979	BN	5.2	5.2	0.0	0.0
1980	AN	4.0	4.0	0.0	0.0
1981	D	3.7	3.7	0.0	0.0
1982	W	5.3	5.3	0.0	0.0
1983	W	4.8	4.8	0.0	0.0
1984	W	3.5	3.5	0.0	0.0
1985	D	3.8	3.8	0.0	0.0
1986	W	10.4	10.4	0.0	0.0
1987	D	3.7	3.7	0.0	0.0
1988	C	5.8	5.8	0.0	0.0
1989	D	3.9	3.9	0.0	0.0
1990	C	5.2	5.2	0.0	0.0
1991	C	3.3	3.3	0.0	0.0
	Mean:	5.0	5.0	0.0	0.0
	Median:	4.0	4.0	0.0	0.0
	Min:	3.3	3.3	0.0	0.0
	Max:	10.7	10.7	0.0	0.0
	# Years Abs Diff < -0.4			0	
	# Years Abs Diff > 0.4			0	
	# Years Rel Diff <= -10%				0
	# Years Rel Diff >= 10%				0

### Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) DOC

March					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Dissolved Organic Carbon (mg/L)	Dissolved Organic Carbon (mg/L)		
1975	W	4.7	4.7	0.0	0.0
1976	C	3.3	3.3	0.0	0.0
1977	C	3.7	3.7	0.0	0.0
1978	AN	4.4	4.4	0.0	0.0
1979	BN	5.8	5.8	0.0	0.0
1980	AN	4.3	4.3	0.0	0.0
1981	D	3.8	3.8	0.0	0.0
1982	W	3.4	3.4	0.0	0.0
1983	W	5.4	5.4	0.0	0.0
1984	W	3.2	3.2	0.0	0.0
1985	D	3.8	3.8	0.0	0.0
1986	W	4.5	4.5	0.0	0.0
1987	D	4.7	4.7	0.0	0.0
1988	C	7.0	7.0	0.0	0.0
1989	D	6.0	6.0	0.0	0.0
1990	C	5.8	5.8	0.0	0.0
1991	C	5.8	5.8	0.0	0.0
Mean:		4.7	4.7	0.0	0.0
Median:		4.5	4.5	0.0	0.0
Min:		3.2	3.2	0.0	0.0
Max:		7.0	7.0	0.0	0.0
# Years Abs Diff < -0.4				0	
# Years Abs Diff > 0.4				0	
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) DOC**

<b>April</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>Dissolved Organic Carbon (mg/L)</b>	<b>Dissolved Organic Carbon (mg/L)</b>		
1975	W	4.0	4.0	0.0	0.0
1976	C	3.3	3.3	0.0	0.0
1977	C	4.3	4.3	0.0	0.0
1978	AN	3.9	3.9	0.0	0.0
1979	BN	4.1	4.1	0.0	0.0
1980	AN	3.6	3.6	0.0	0.0
1981	D	3.6	3.6	0.0	0.0
1982	W	4.1	4.1	0.0	0.0
1983	W	5.1	5.1	0.0	0.0
1984	W	3.0	3.0	0.0	0.0
1985	D	3.8	3.8	0.0	0.0
1986	W	3.9	3.9	0.0	0.0
1987	D	5.0	5.0	0.0	0.0
1988	C	5.6	5.6	0.0	0.0
1989	D	6.2	6.2	0.0	0.0
1990	C	5.5	5.4	0.0	0.0
1991	C	6.0	6.0	0.0	0.0
Mean:		4.4	4.4	0.0	0.0
Median:		4.1	4.1	0.0	0.0
Min:		3.0	3.0	0.0	0.0
Max:		6.2	6.2	0.0	0.0
# Years Abs Diff < -0.4				0	
# Years Abs Diff > 0.4				0	
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) DOC**

<b>May</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>Dissolved Organic Carbon (mg/L)</b>	<b>Dissolved Organic Carbon (mg/L)</b>		
1975	W	3.8	3.8	0.0	0.0
1976	C	3.7	3.7	0.0	0.0
1977	C	4.4	4.4	0.0	0.0
1978	AN	3.9	3.9	0.0	0.0
1979	BN	3.7	3.7	0.0	0.0
1980	AN	3.7	3.7	0.0	0.0
1981	D	3.7	3.7	0.0	0.0
1982	W	3.8	3.8	0.0	0.0
1983	W	4.8	4.8	0.0	0.0
1984	W	3.1	3.1	0.0	0.0
1985	D	3.8	3.8	0.0	0.0
1986	W	3.3	3.3	0.0	0.0
1987	D	4.5	4.5	0.0	0.0
1988	C	5.0	5.0	0.0	0.0
1989	D	5.7	5.7	0.0	0.0
1990	C	5.1	5.1	0.0	0.0
1991	C	5.6	5.6	0.0	0.0
	Mean:	4.2	4.2	0.0	0.0
	Median:	3.8	3.8	0.0	0.0
	Min:	3.1	3.1	0.0	0.0
	Max:	5.7	5.7	0.0	0.0
	# Years Abs Diff < -0.4			0	
	# Years Abs Diff > 0.4			0	
	# Years Rel Diff <= -10%				0
	# Years Rel Diff >= 10%				0



**Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) DOC**

<b>June</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>Dissolved Organic Carbon (mg/L)</b>	<b>Dissolved Organic Carbon (mg/L)</b>		
1975	W	3.4	3.4	0.0	0.0
1976	C	3.7	3.7	0.0	0.0
1977	C	4.1	4.1	-0.1	-2.4
1978	AN	3.4	3.4	0.0	0.0
1979	BN	3.4	3.4	0.0	0.0
1980	AN	3.4	3.4	0.0	0.0
1981	D	3.5	3.4	0.0	0.0
1982	W	3.4	3.4	0.0	0.0
1983	W	3.4	3.4	0.0	0.0
1984	W	3.2	3.3	0.0	0.0
1985	D	3.5	3.5	0.0	0.0
1986	W	3.4	3.4	0.0	0.0
1987	D	4.1	4.0	-0.1	-2.4
1988	C	4.9	4.8	-0.1	-2.0
1989	D	4.7	4.7	0.0	0.0
1990	C	4.8	4.6	-0.2	-4.2
1991	C	4.3	4.1	-0.1	-2.3
	Mean:	3.8	3.8	0.0	-0.8
	Median:	3.5	3.4	0.0	0.0
	Min:	3.2	3.3	-0.2	-4.2
	Max:	4.9	4.8	0.0	0.0
	# Years Abs Diff < -0.4			0	
	# Years Abs Diff > 0.4			0	
	# Years Rel Diff <= -10%				0
	# Years Rel Diff >= 10%				0

### Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) DOC

July					
Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Dissolved Organic Carbon (mg/L)	Dissolved Organic Carbon (mg/L)		
1975	W	2.9	2.9	0.0	0.0
1976	C	3.4	3.4	0.0	0.0
1977	C	3.6	3.6	-0.1	-2.7
1978	AN	3.2	3.2	0.0	0.0
1979	BN	2.9	2.9	0.0	0.0
1980	AN	3.1	3.2	0.0	0.0
1981	D	3.0	3.0	0.0	0.0
1982	W	3.2	3.2	0.0	0.0
1983	W	3.4	3.4	0.0	0.0
1984	W	3.1	3.1	0.1	3.3
1985	D	2.9	3.0	0.0	0.0
1986	W	3.1	3.2	0.1	3.2
1987	D	3.4	3.4	0.0	0.0
1988	C	3.9	3.8	-0.1	-2.6
1989	D	3.2	3.2	0.0	0.0
1990	C	3.9	3.8	-0.1	-2.5
1991	C	3.5	3.5	0.0	0.0
Mean:		3.3	3.3	0.0	-0.1
Median:		3.2	3.2	0.0	0.0
Min:		2.9	2.9	-0.1	-2.7
Max:		3.9	3.8	0.1	3.3
# Years Abs Diff < -0.4				0	
# Years Abs Diff > 0.4				0	
# Years Rel Diff <= -10%					0
# Years Rel Diff >= 10%					0

**Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) DOC**

<b>August</b>					
<b>Water Year</b>	<b>Water Year Type</b>	<b>CEQA Existing Condition</b>	<b>CEQA No Project Alternative</b>	<b>Absolute Difference</b>	<b>Relative Difference (%)</b>
		<b>Dissolved Organic Carbon (mg/L)</b>	<b>Dissolved Organic Carbon (mg/L)</b>		
1975	W	2.7	2.7	0.0	0.0
1976	C	3.1	3.1	0.0	0.0
1977	C	3.3	3.3	0.0	0.0
1978	AN	2.7	2.8	0.0	0.0
1979	BN	2.7	2.7	0.0	0.0
1980	AN	2.7	2.8	0.0	0.0
1981	D	2.8	2.8	0.0	0.0
1982	W	2.8	2.8	0.0	0.0
1983	W	3.0	3.0	0.0	0.0
1984	W	2.8	2.8	0.0	0.0
1985	D	2.7	2.7	0.0	0.0
1986	W	2.7	2.8	0.0	0.0
1987	D	3.0	3.0	0.0	0.0
1988	C	3.7	3.6	0.0	0.0
1989	D	2.7	2.8	0.0	0.0
1990	C	3.5	3.6	0.1	2.9
1991	C	3.1	3.2	0.1	3.2
	Mean:	2.9	3.0	0.0	0.4
	Median:	2.8	2.8	0.0	0.0
	Min:	2.7	2.7	0.0	0.0
	Max:	3.7	3.6	0.1	3.2
	# Years Abs Diff < -0.4			0	
	# Years Abs Diff > 0.4			0	
	# Years Rel Diff <= -10%				0
	# Years Rel Diff >= 10%				0

### Delta-Mendota Canal at Tracy Pumping Plant (CVP Tracy) DOC

#### September

Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Dissolved Organic Carbon (mg/L)	Dissolved Organic Carbon (mg/L)		
1975	W	2.6	2.6	0.0	0.0
1976	C	2.8	2.8	0.0	0.0
1977	C	3.1	3.1	0.0	0.0
1978	AN	2.7	2.7	0.0	0.0
1979	BN	2.7	2.7	0.0	0.0
1980	AN	2.7	2.7	0.0	0.0
1981	D	2.7	2.7	0.0	0.0
1982	W	2.8	2.9	0.0	0.0
1983	W	3.1	3.1	0.0	0.0
1984	W	2.7	2.7	0.0	0.0
1985	D	2.6	2.6	0.0	0.0
1986	W	2.6	2.6	0.0	0.0
1987	D	2.7	2.7	0.0	0.0
1988	C	3.4	3.4	0.0	0.0
1989	D	2.7	2.7	0.0	0.0
1990	C	3.2	3.2	0.1	3.1
1991	C	2.9	3.0	0.0	0.0
	Mean:	2.8	2.8	0.0	0.2
	Median:	2.7	2.7	0.0	0.0
	Min:	2.6	2.6	0.0	0.0
	Max:	3.4	3.4	0.1	3.1
	# Years Abs Diff < -0.4			0	
	# Years Abs Diff > 0.4			0	
	# Years Rel Diff <= -10%				0
	# Years Rel Diff >= 10%				0

Long-term and Water Year Type Average Flow at the Old River at Bacon Island under CEQA Existing Condition and CEQA No Project Alternative Conditions

Analysis Period	Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Long-term</b>												
<b>Full Simulation Period<sup>2</sup></b>												
CEQA Existing Condition	-3,026	-2,638	-2,278	-2,300	-997	-1,128	-533	-555	-1,152	-3,534	-3,624	-3,306
CEQA No Project Alternative	-2,995	-2,633	-2,283	-2,294	-1,006	-1,118	-533	-555	-1,215	-3,438	-3,547	-3,293
Difference	30.1	5.4	-5.6	6.5	-8.8	9.6	0.1	0.0	-63.1	96.2	77.0	12.6
Percent Difference <sup>3</sup>	-1.0	-0.2	0.2	-0.3	0.9	-0.9	0.0	0.0	5.5	-2.7	-2.1	-0.4
<b>Water Year Types<sup>1</sup></b>												
<b>Wet</b>												
CEQA Existing Condition	-2,592	-2,731	-1,464	-1,177	139	428	308	-241	-626	-3,748	-4,665	-4,067
CEQA No Project Alternative	-2,593	-2,731	-1,464	-1,177	139	428	308	-241	-611	-3,500	-4,566	-4,063
Difference	-1.3	0.1	-0.1	-0.1	-0.1	0.0	0.0	0.0	14.7	247.5	99.3	4.0
Percent Difference	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	-2.4	-6.6	-2.1	-0.1
<b>Above Normal</b>												
CEQA Existing Condition	-2,620	-2,402	-3,585	-2,651	-281	-460	-194	-390	-1,608	-4,619	-4,700	-4,403
CEQA No Project Alternative	-2,524	-2,352	-3,584	-2,651	-281	-460	-194	-390	-1,597	-4,427	-4,544	-4,396
Difference	96.1	49.5	1.1	0.3	0.1	0.0	0.0	0.0	10.2	191.7	156.4	7.4
Percent Difference	-3.7	-2.1	0.0	0.0	0.0	0.0	0.0	0.0	-0.6	-4.1	-3.3	-0.2
<b>Below Normal</b>												
CEQA Existing Condition	-4,361	-2,625	-1,783	-3,560	-1,807	-1,365	-1,489	-1,357	-2,566	-4,933	-4,772	-3,540
CEQA No Project Alternative	-4,350	-2,622	-1,783	-3,560	-1,807	-1,365	-1,489	-1,357	-2,519	-4,843	-4,692	-3,397
Difference	11.5	2.7	0.0	0.1	0.0	0.3	0.3	0.0	47.0	90.7	80.0	142.9
Percent Difference	-0.3	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	-1.8	-1.8	-1.7	-4.0
<b>Dry</b>												
CEQA Existing Condition	-3,550	-2,795	-2,498	-3,151	-2,120	-2,739	-1,433	-800	-1,611	-4,073	-4,019	-3,634
CEQA No Project Alternative	-3,476	-2,793	-2,498	-3,150	-2,158	-2,703	-1,432	-799	-1,708	-4,139	-3,958	-3,644
Difference	74.0	1.5	0.3	0.3	-37.8	35.9	0.4	0.2	-97.2	-66.4	61.8	-10.2
Percent Difference	-2.1	-0.1	0.0	0.0	1.8	-1.3	0.0	0.0	6.0	1.6	-1.5	0.3
<b>Critical</b>												
CEQA Existing Condition	-2,934	-2,518	-2,492	-2,351	-1,359	-1,615	-600	-578	-844	-2,175	-1,606	-1,797
CEQA No Project Alternative	-2,931	-2,522	-2,511	-2,329	-1,359	-1,611	-600	-578	-1,009	-2,137	-1,572	-1,781
Difference	3.8	-3.3	-19.5	21.9	0.4	4.0	0.1	0.1	-164.9	37.7	34.5	15.6
Percent Difference	-0.1	0.1	0.8	-0.9	0.0	-0.2	0.0	0.0	19.5	-1.7	-2.2	-0.9

1 As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB 1995)

2 Based on the 17-year simulation period

3 Relative difference of the monthly average

### Old River at Bacon Island Flow

#### October

Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Flow (cfs)	Flow (cfs)		
1975	W	-4419.9	-4419.9	0.0	0.0
1976	C	-4625.6	-4625.7	-0.1	0.0
1977	C	-2527.2	-2527.8	-0.6	0.0
1978	AN	-1653.9	-1654.2	-0.3	0.0
1979	BN	-4361.2	-4349.8	11.5	-0.3
1980	AN	-3586.8	-3394.3	192.5	-5.4
1981	D	-4193.3	-4181.3	12.0	-0.3
1982	W	-3689.5	-3689.5	0.0	0.0
1983	W	-1674.0	-1674.1	-0.1	0.0
1984	W	693.4	693.4	0.0	0.0
1985	D	-3881.7	-3881.7	0.0	0.0
1986	W	-3871.1	-3877.3	-6.2	0.2
1987	D	-4363.3	-4078.6	284.7	-6.5
1988	C	-2102.8	-2103.1	-0.3	0.0
1989	D	-1761.5	-1762.3	-0.7	0.0
1990	C	-3716.4	-3706.6	9.8	-0.3
1991	C	-1699.4	-1689.5	9.9	-0.6
Mean:		-3025.5	-2995.4	30.1	-0.8
Median:		-3689.5	-3689.5	0.0	0.0
Min:		-4625.6	-4625.7	-6.2	-6.5
Max:		693.4	693.4	284.7	0.2

### Old River at Bacon Island Flow

#### November

Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Flow (cfs)	Flow (cfs)		
1975	W	-4415.5	-4413.8	1.7	0.0
1976	C	-4624.3	-4624.0	0.3	0.0
1977	C	-2549.0	-2560.4	-11.4	0.4
1978	AN	-903.2	-903.2	0.0	0.0
1979	BN	-2624.6	-2622.0	2.7	-0.1
1980	AN	-3900.7	-3801.7	98.9	-2.5
1981	D	-2509.8	-2507.1	2.7	-0.1
1982	W	-4549.8	-4549.7	0.1	0.0
1983	W	-2676.3	-2676.0	0.3	0.0
1984	W	1252.3	1252.3	0.0	0.0
1985	D	-4481.1	-4480.3	0.8	0.0
1986	W	-3265.3	-3266.9	-1.6	0.0
1987	D	-2685.3	-2679.7	5.5	-0.2
1988	C	-2480.4	-2487.6	-7.2	0.3
1989	D	-1503.0	-1505.9	-2.9	0.2
1990	C	-2474.1	-2472.4	1.7	-0.1
1991	C	-463.2	-463.2	0.0	0.0
Mean:		-2638.4	-2633.0	5.4	-0.1
Median:		-2624.6	-2622.0	0.3	0.0
Min:		-4624.3	-4624.0	-11.4	-2.5
Max:		1252.3	1252.3	98.9	0.4

### Old River at Bacon Island Flow

#### December

Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Flow (cfs)	Flow (cfs)		
1975	W	-3748.0	-3748.0	0.0	0.0
1976	C	-3860.1	-3859.8	0.3	0.0
1977	C	-1220.2	-1232.2	-12.0	1.0
1978	AN	-3421.0	-3420.9	0.1	0.0
1979	BN	-1783.1	-1783.1	0.0	0.0
1980	AN	-3749.0	-3747.0	2.0	-0.1
1981	D	-2472.3	-2472.3	0.0	0.0
1982	W	-3726.7	-3727.2	-0.5	0.0
1983	W	110.7	110.8	0.1	0.1
1984	W	3762.2	3762.2	0.0	0.0
1985	D	-3643.4	-3642.3	1.0	0.0
1986	W	-3715.8	-3715.7	0.0	0.0
1987	D	-1855.0	-1855.0	0.1	0.0
1988	C	-3733.4	-3727.1	6.3	-0.2
1989	D	-2023.0	-2023.0	0.0	0.0
1990	C	-3294.4	-3382.6	-88.2	2.7
1991	C	-350.4	-354.4	-4.0	1.1
	Mean:	-2277.8	-2283.4	-5.6	0.3
	Median:	-3294.4	-3382.6	0.0	0.0
	Min:	-3860.1	-3859.8	-88.2	-0.2
	Max:	3762.2	3762.2	6.3	2.7



### Old River at Bacon Island Flow

#### January

Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Flow (cfs)	Flow (cfs)		
1975	W	-3909.9	-3909.4	0.5	0.0
1976	C	-3227.1	-3227.0	0.1	0.0
1977	C	-709.1	-687.5	21.6	-3.0
1978	AN	-3318.0	-3318.2	-0.2	0.0
1979	BN	-3560.4	-3560.4	0.1	0.0
1980	AN	-1983.9	-1983.2	0.7	0.0
1981	D	-3694.9	-3694.1	0.8	0.0
1982	W	-2916.2	-2916.3	-0.1	0.0
1983	W	3492.2	3492.2	-0.1	0.0
1984	W	1190.3	1190.3	0.0	0.0
1985	D	-3543.3	-3542.8	0.5	0.0
1986	W	-3739.5	-3740.4	-1.0	0.0
1987	D	-3187.9	-3187.9	0.0	0.0
1988	C	-3832.9	-3832.8	0.1	0.0
1989	D	-2177.1	-2177.1	0.0	0.0
1990	C	-3829.5	-3741.6	87.9	-2.3
1991	C	-157.9	-158.1	-0.2	0.1
	Mean:	-2300.3	-2293.8	6.5	-0.3
	Median:	-3227.1	-3227.0	0.1	0.0
	Min:	-3909.9	-3909.4	-1.0	-3.0
	Max:	3492.2	3492.2	87.9	0.1

**Old River at Bacon Island Flow**

**February**

Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Flow (cfs)	Flow (cfs)		
1975	W	-2915.5	-2915.4	0.1	0.0
1976	C	-2392.1	-2392.1	0.0	0.0
1977	C	-97.0	-96.5	0.5	-0.5
1978	AN	-1223.2	-1223.3	-0.1	0.0
1979	BN	-1807.4	-1807.4	0.0	0.0
1980	AN	660.4	660.7	0.3	0.0
1981	D	-3318.1	-3477.0	-158.8	4.8
1982	W	-1704.7	-1704.7	0.0	0.0
1983	W	6863.0	6862.4	-0.6	0.0
1984	W	-687.1	-687.1	0.0	0.0
1985	D	-2673.3	-2662.1	11.3	-0.4
1986	W	-860.6	-860.7	-0.1	0.0
1987	D	-2168.1	-2168.1	0.0	0.0
1988	C	-1740.2	-1740.4	-0.1	0.0
1989	D	-322.2	-325.7	-3.5	1.1
1990	C	-2488.5	-2486.7	1.8	-0.1
1991	C	-79.2	-79.2	0.0	0.0
	Mean:	-997.3	-1006.1	-8.8	0.3
	Median:	-1704.7	-1704.7	0.0	0.0
	Min:	-3318.1	-3477.0	-158.8	-0.5
	Max:	6863.0	6862.4	11.3	4.8

### Old River at Bacon Island Flow

#### March

Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Flow (cfs)	Flow (cfs)		
1975	W	-2771.5	-2771.5	0.0	0.0
1976	C	-2302.0	-2302.1	0.0	0.0
1977	C	-102.1	-96.5	5.5	-5.4
1978	AN	-649.0	-649.0	0.0	0.0
1979	BN	-1365.3	-1365.0	0.3	0.0
1980	AN	-271.2	-271.2	0.0	0.0
1981	D	-3185.9	-3044.5	141.3	-4.4
1982	W	-1324.0	-1324.0	0.0	0.0
1983	W	8147.2	8147.3	0.1	0.0
1984	W	-3029.4	-3029.4	0.0	0.0
1985	D	-1712.1	-1707.8	4.4	-0.3
1986	W	1119.7	1119.7	0.0	0.0
1987	D	-2000.8	-2000.9	0.0	0.0
1988	C	-123.1	-118.8	4.3	-3.5
1989	D	-4057.4	-4059.5	-2.2	0.1
1990	C	-1526.3	-1516.2	10.1	-0.7
1991	C	-4020.4	-4020.5	0.0	0.0
Mean:		-1127.9	-1118.2	9.6	-0.8
Median:		-1526.3	-1516.2	0.0	0.0
Min:		-4057.4	-4059.5	-2.2	-5.4
Max:		8147.2	8147.3	141.3	0.1

### Old River at Bacon Island Flow

#### April

Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Flow (cfs)	Flow (cfs)		
1975	W	-1805.4	-1805.5	0.0	0.0
1976	C	-901.6	-901.5	0.0	0.0
1977	C	-338.5	-338.3	0.2	-0.1
1978	AN	708.3	708.2	0.0	0.0
1979	BN	-1489.4	-1489.2	0.3	0.0
1980	AN	-1095.8	-1095.9	0.0	0.0
1981	D	-1407.0	-1404.8	2.2	-0.2
1982	W	2618.5	2618.6	0.0	0.0
1983	W	3017.8	3017.9	0.0	0.0
1984	W	-1769.1	-1769.1	0.0	0.0
1985	D	-1209.6	-1209.6	0.0	0.0
1986	W	-521.2	-521.2	0.0	0.0
1987	D	-1297.0	-1297.1	-0.1	0.0
1988	C	-862.3	-862.1	0.1	0.0
1989	D	-1817.4	-1817.9	-0.4	0.0
1990	C	-296.4	-296.3	0.1	0.0
1991	C	-599.2	-599.2	0.0	0.0
Mean:		-533.3	-533.1	0.1	0.0
Median:		-901.6	-901.5	0.0	0.0
Min:		-1817.4	-1817.9	-0.4	-0.2
Max:		3017.8	3017.9	2.2	0.0

### Old River at Bacon Island Flow

#### May

Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Flow (cfs)	Flow (cfs)		
1975	W	-1338.3	-1338.4	0.0	0.0
1976	C	-783.8	-783.7	0.1	0.0
1977	C	-421.0	-421.0	0.0	0.0
1978	AN	-154.2	-154.2	-0.1	0.1
1979	BN	-1357.4	-1357.4	0.0	0.0
1980	AN	-626.7	-626.7	0.0	0.0
1981	D	-1042.1	-1041.7	0.4	0.0
1982	W	463.3	463.3	0.0	0.0
1983	W	2031.6	2031.6	0.0	0.0
1984	W	-1419.8	-1419.8	-0.1	0.0
1985	D	-789.4	-789.4	0.0	0.0
1986	W	-942.1	-942.1	0.0	0.0
1987	D	-592.9	-592.7	0.2	0.0
1988	C	-544.2	-544.2	0.0	0.0
1989	D	-774.0	-774.0	0.0	0.0
1990	C	-462.8	-462.6	0.2	0.0
1991	C	-678.8	-678.6	0.2	0.0
	Mean:	-554.9	-554.8	0.1	0.0
	Median:	-678.8	-678.6	0.0	0.0
	Min:	-1419.8	-1419.8	-0.1	0.0
	Max:	2031.6	2031.6	0.4	0.1

### Old River at Bacon Island Flow

#### June

Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Flow (cfs)	Flow (cfs)		
1975	W	-3384.9	-3384.9	0.0	0.0
1976	C	-1593.0	-1688.7	-95.7	6.0
1977	C	-581.4	-773.8	-192.4	33.1
1978	AN	-1046.8	-1047.0	-0.1	0.0
1979	BN	-2565.6	-2518.7	47.0	-1.8
1980	AN	-2168.3	-2147.8	20.5	-0.9
1981	D	-2092.0	-2232.6	-140.7	6.7
1982	W	-1598.5	-1598.7	-0.1	0.0
1983	W	5893.1	5893.2	0.1	0.0
1984	W	-2314.3	-2240.6	73.7	-3.2
1985	D	-2235.2	-2217.3	17.9	-0.8
1986	W	-1726.5	-1726.4	0.1	0.0
1987	D	-830.1	-1096.3	-266.3	32.1
1988	C	-524.7	-687.7	-162.9	31.0
1989	D	-1284.9	-1284.8	0.0	0.0
1990	C	-603.7	-794.9	-191.2	31.7
1991	C	-919.6	-1101.7	-182.1	19.8
Mean:		-1151.6	-1214.6	-63.1	9.0
Median:		-1593.0	-1598.7	-0.1	0.0
Min:		-3384.9	-3384.9	-266.3	-3.2
Max:		5893.1	5893.2	73.7	33.1

### Old River at Bacon Island Flow

#### July

Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Flow (cfs)	Flow (cfs)		
1975	W	-4923.7	-4667.2	256.5	-5.2
1976	C	-2627.6	-2642.6	-15.0	0.6
1977	C	-2291.1	-2353.6	-62.5	2.7
1978	AN	-4814.4	-4600.3	214.1	-4.4
1979	BN	-4933.4	-4842.6	90.7	-1.8
1980	AN	-4423.9	-4254.6	169.3	-3.8
1981	D	-4361.5	-4448.6	-87.1	2.0
1982	W	-4549.1	-4337.8	211.3	-4.6
1983	W	-986.8	-986.9	-0.1	0.0
1984	W	-3712.2	-3331.8	380.5	-10.2
1985	D	-4905.6	-4929.8	-24.2	0.5
1986	W	-4567.6	-4178.2	389.4	-8.5
1987	D	-2924.8	-3073.3	-148.5	5.1
1988	C	-2045.3	-2113.5	-68.2	3.3
1989	D	-4100.0	-4105.8	-5.8	0.1
1990	C	-1944.2	-1751.1	193.1	-9.9
1991	C	-1965.9	-1824.8	141.1	-7.2
	Mean:	-3533.9	-3437.8	96.2	-2.4
	Median:	-4100.0	-4105.8	90.7	-1.8
	Min:	-4933.4	-4929.8	-148.5	-10.2
	Max:	-986.8	-986.9	389.4	5.1

### Old River at Bacon Island Flow

#### August

Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Flow (cfs)	Flow (cfs)		
1975	W	-4827.8	-4798.5	29.3	-0.6
1976	C	-2320.7	-2394.5	-73.8	3.2
1977	C	-1350.7	-1399.5	-48.8	3.6
1978	AN	-4624.8	-4550.0	74.8	-1.6
1979	BN	-4771.8	-4691.7	80.0	-1.7
1980	AN	-4776.1	-4538.1	238.0	-5.0
1981	D	-4002.1	-3910.6	91.5	-2.3
1982	W	-4701.6	-4297.9	403.6	-8.6
1983	W	-4396.4	-4396.6	-0.2	0.0
1984	W	-4682.7	-4651.9	30.8	-0.7
1985	D	-4766.2	-4791.6	-25.3	0.5
1986	W	-4718.9	-4686.0	32.9	-0.7
1987	D	-3442.9	-3447.6	-4.7	0.1
1988	C	-719.3	-774.4	-55.0	7.6
1989	D	-3866.7	-3680.9	185.8	-4.8
1990	C	-1340.7	-1141.6	199.1	-14.8
1991	C	-2299.5	-2148.3	151.2	-6.6
	Mean:	-3624.1	-3547.0	77.0	-1.9
	Median:	-4396.4	-4297.9	32.9	-0.7
	Min:	-4827.8	-4798.5	-73.8	-14.8
	Max:	-719.3	-774.4	403.6	7.6



### Old River at Bacon Island Flow

#### September

Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Flow (cfs)	Flow (cfs)		
1975	W	-4662.3	-4662.2	0.1	0.0
1976	C	-2572.6	-2621.0	-48.5	1.9
1977	C	-1479.3	-1503.4	-24.2	1.6
1978	AN	-4274.4	-4263.2	11.2	-0.3
1979	BN	-3540.4	-3397.4	142.9	-4.0
1980	AN	-4532.2	-4528.7	3.5	-0.1
1981	D	-3892.6	-3891.7	0.9	0.0
1982	W	-4033.8	-4029.6	4.2	-0.1
1983	W	-3099.2	-3099.2	-0.1	0.0
1984	W	-4185.3	-4179.4	5.9	-0.1
1985	D	-4117.4	-4128.6	-11.2	0.3
1986	W	-4353.5	-4343.8	9.7	-0.2
1987	D	-3142.8	-3173.9	-31.1	1.0
1988	C	-1501.9	-1545.0	-43.1	2.9
1989	D	-3382.3	-3381.6	0.7	0.0
1990	C	-1688.0	-1581.6	106.4	-6.3
1991	C	-1741.2	-1653.9	87.3	-5.0
Mean:		-3305.8	-3293.2	12.6	-0.5
Median:		-3540.4	-3397.4	0.9	0.0
Min:		-4662.3	-4662.2	-48.5	-6.3
Max:		-1479.3	-1503.4	142.9	2.9

Long-term and Water Year Type Average Flow at the Middle River at Middle River under CEQA Existing Condition and CEQA No Project Alternative Conditions

Analysis Period	Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Long-term</b>												
<b>Full Simulation Period<sup>2</sup></b>												
CEQA Existing Condition	-3,002	-2,774	-2,533	-2,557	-1,734	-1,777	-1,345	-1,407	-1,781	-3,382	-3,420	-3,190
CEQA No Project Alternative	-2,982	-2,770	-2,537	-2,553	-1,739	-1,771	-1,345	-1,408	-1,822	-3,315	-3,367	-3,181
Difference	20.1	3.3	-3.9	3.9	-5.4	6.1	0.1	-0.3	-40.8	67.0	52.9	8.2
Percent Difference <sup>3</sup>	-0.7	-0.1	0.2	-0.2	0.3	-0.3	0.0	0.0	2.3	-2.0	-1.5	-0.3
<b>Water Year Types<sup>1</sup></b>												
<b>Wet</b>												
CEQA Existing Condition	-2,743	-2,904	-2,062	-1,863	-1,046	-819	-834	-1,235	-1,491	-3,587	-4,179	-3,777
CEQA No Project Alternative	-2,744	-2,905	-2,062	-1,863	-1,046	-819	-834	-1,235	-1,481	-3,415	-4,110	-3,775
Difference	-0.8	-0.1	0.1	0.1	0.0	0.0	0.0	0.1	9.5	172.1	68.5	2.8
Percent Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.6	-4.8	-1.6	-0.1
<b>Above Normal</b>												
CEQA Existing Condition	-2,704	-2,567	-3,332	-2,917	-1,439	-1,437	-1,168	-1,325	-2,051	-4,073	-4,117	-3,839
CEQA No Project Alternative	-2,644	-2,535	-3,332	-2,917	-1,439	-1,437	-1,168	-1,325	-2,044	-3,940	-4,009	-3,834
Difference	60.7	32.2	-0.1	-0.5	0.2	0.0	0.1	0.1	6.8	132.3	107.1	4.8
Percent Difference	-2.2	-1.3	0.0	0.0	0.0	0.0	0.0	0.0	-0.3	-3.2	-2.6	-0.1
<b>Below Normal</b>												
CEQA Existing Condition	-3,857	-2,723	-2,165	-3,408	-2,265	-1,982	-1,960	-1,914	-2,651	-4,193	-4,082	-3,258
CEQA No Project Alternative	-3,849	-2,722	-2,164	-3,408	-2,265	-1,983	-1,960	-1,914	-2,621	-4,130	-4,026	-3,165
Difference	7.8	1.6	0.0	-0.1	-0.2	-0.8	-0.2	0.2	29.9	63.0	55.9	92.5
Percent Difference	-0.2	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	-1.1	-1.5	-1.4	-2.8
<b>Dry</b>												
CEQA Existing Condition	-3,344	-2,846	-2,664	-3,044	-2,380	-2,781	-1,898	-1,568	-2,079	-3,743	-3,656	-3,366
CEQA No Project Alternative	-3,293	-2,846	-2,664	-3,044	-2,403	-2,757	-1,898	-1,569	-2,142	-3,787	-3,614	-3,373
Difference	51.1	0.4	-0.3	-0.4	-23.2	23.3	0.2	-0.7	-62.7	-43.5	42.3	-7.0
Percent Difference	-1.5	0.0	0.0	0.0	1.0	-0.8	0.0	0.0	3.0	1.2	-1.2	0.2
<b>Critical</b>												
CEQA Existing Condition	-2,937	-2,678	-2,654	-2,549	-1,917	-2,028	-1,360	-1,382	-1,551	-2,448	-2,062	-2,187
CEQA No Project Alternative	-2,934	-2,680	-2,667	-2,535	-1,917	-2,026	-1,360	-1,383	-1,658	-2,423	-2,039	-2,177
Difference	2.5	-2.1	-13.0	13.5	0.2	2.4	0.0	-0.6	-106.8	25.0	23.5	10.3
Percent Difference	-0.1	0.1	0.5	-0.5	0.0	-0.1	0.0	0.0	6.9	-1.0	-1.1	-0.5

1 As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB 1995)

2 Based on the 17-year simulation period

3 Relative difference of the monthly average

**Middle River at Middle River Flow**

**October**

Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Flow (cfs)	Flow (cfs)		
1975	W	-3894.4	-3894.3	0.1	0.0
1976	C	-3989.3	-3989.3	0.1	0.0
1977	C	-2677.8	-2678.2	-0.4	0.0
1978	AN	-2088.7	-2088.9	-0.2	0.0
1979	BN	-3856.5	-3848.8	7.8	-0.2
1980	AN	-3320.2	-3198.6	121.6	-3.7
1981	D	-3735.0	-3726.8	8.2	-0.2
1982	W	-3374.8	-3374.8	0.0	0.0
1983	W	-2189.4	-2189.3	0.0	0.0
1984	W	-742.2	-742.1	0.0	0.0
1985	D	-3540.8	-3540.8	0.0	0.0
1986	W	-3512.8	-3517.0	-4.2	0.1
1987	D	-3930.7	-3734.3	196.4	-5.0
1988	C	-2416.2	-2416.4	-0.2	0.0
1989	D	-2171.4	-2171.8	-0.4	0.0
1990	C	-3443.3	-3436.7	6.7	-0.2
1991	C	-2157.8	-2151.6	6.2	-0.3
	Mean:	-3002.4	-2982.3	20.1	-0.6
	Median:	-3374.8	-3374.8	0.0	0.0
	Min:	-3989.3	-3989.3	-4.2	-5.0
	Max:	-742.2	-742.1	196.4	0.1

**Middle River at Middle River Flow**

**November**

Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Flow (cfs)	Flow (cfs)		
1975	W	-3881.5	-3880.3	1.2	0.0
1976	C	-3962.6	-3963.1	-0.5	0.0
1977	C	-2695.2	-2702.1	-6.9	0.3
1978	AN	-1618.8	-1618.8	0.0	0.0
1979	BN	-2723.2	-2721.6	1.6	-0.1
1980	AN	-3514.6	-3450.2	64.4	-1.8
1981	D	-2581.7	-2580.1	1.6	-0.1
1982	W	-4061.7	-4061.8	0.0	0.0
1983	W	-3012.0	-3012.7	-0.7	0.0
1984	W	-436.5	-436.6	0.0	0.0
1985	D	-4063.1	-4064.6	-1.5	0.0
1986	W	-3130.1	-3131.2	-1.1	0.0
1987	D	-2787.3	-2784.1	3.1	-0.1
1988	C	-2683.7	-2688.1	-4.4	0.2
1989	D	-1953.1	-1954.8	-1.7	0.1
1990	C	-2660.8	-2659.7	1.1	0.0
1991	C	-1386.5	-1386.5	0.0	0.0
	Mean:	-2773.7	-2770.4	3.3	-0.1
	Median:	-2723.2	-2721.6	0.0	0.0
	Min:	-4063.1	-4064.6	-6.9	-1.8
	Max:	-436.5	-436.6	64.4	0.3

**Middle River at Middle River Flow**

**December**

Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Flow (cfs)	Flow (cfs)		
1975	W	-3389.0	-3389.0	0.0	0.0
1976	C	-3383.3	-3383.6	-0.3	0.0
1977	C	-1869.8	-1877.1	-7.3	0.4
1978	AN	-3195.2	-3195.3	-0.1	0.0
1979	BN	-2164.5	-2164.5	0.0	0.0
1980	AN	-3467.9	-3468.1	-0.2	0.0
1981	D	-2613.4	-2613.3	0.0	0.0
1982	W	-3561.4	-3560.7	0.7	0.0
1983	W	-1192.4	-1192.4	0.0	0.0
1984	W	1253.1	1253.1	0.0	0.0
1985	D	-3451.0	-3452.3	-1.2	0.0
1986	W	-3421.7	-3421.7	0.0	0.0
1987	D	-2328.3	-2328.3	0.0	0.0
1988	C	-3508.3	-3504.0	4.2	-0.1
1989	D	-2261.3	-2261.3	0.0	0.0
1990	C	-3197.3	-3256.7	-59.4	1.9
1991	C	-1309.0	-1311.4	-2.4	0.2
	Mean:	-2533.0	-2536.9	-3.9	0.1
	Median:	-3195.2	-3195.3	0.0	0.0
	Min:	-3561.4	-3560.7	-59.4	-0.1
	Max:	1253.1	1253.1	4.2	1.9

**Middle River at Middle River Flow**

**January**

Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Flow (cfs)	Flow (cfs)		
1975	W	-3415.3	-3415.9	-0.6	0.0
1976	C	-3005.2	-3005.3	-0.1	0.0
1977	C	-1518.7	-1505.7	12.9	-0.8
1978	AN	-3325.0	-3324.7	0.3	0.0
1979	BN	-3408.0	-3408.1	-0.1	0.0
1980	AN	-2508.3	-2509.6	-1.3	0.1
1981	D	-3471.0	-3472.1	-1.1	0.0
1982	W	-3010.3	-3010.4	-0.1	0.0
1983	W	1009.1	1009.0	0.0	0.0
1984	W	-380.6	-380.6	0.0	0.0
1985	D	-3335.5	-3335.9	-0.4	0.0
1986	W	-3517.6	-3516.2	1.4	0.0
1987	D	-3056.0	-3056.0	0.0	0.0
1988	C	-3537.0	-3537.0	0.1	0.0
1989	D	-2311.6	-2311.6	0.0	0.0
1990	C	-3511.4	-3456.6	54.9	-1.6
1991	C	-1171.5	-1171.6	-0.1	0.0
	Mean:	-2557.3	-2553.4	3.9	-0.1
	Median:	-3056.0	-3056.0	0.0	0.0
	Min:	-3537.0	-3537.0	-1.3	-1.6
	Max:	1009.1	1009.0	54.9	0.1

**Middle River at Middle River Flow**

**February**

Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Flow (cfs)	Flow (cfs)		
1975	W	-2942.1	-2942.0	0.0	0.0
1976	C	-2548.8	-2548.8	0.0	0.0
1977	C	-1071.5	-1071.2	0.3	0.0
1978	AN	-2104.3	-2104.0	0.2	0.0
1979	BN	-2265.0	-2265.2	-0.2	0.0
1980	AN	-773.6	-773.4	0.2	0.0
1981	D	-3148.5	-3246.3	-97.8	3.1
1982	W	-2229.9	-2229.9	0.0	0.0
1983	W	3295.5	3295.5	0.1	0.0
1984	W	-1530.6	-1530.6	0.0	0.0
1985	D	-2700.9	-2693.8	7.1	-0.3
1986	W	-1824.6	-1824.6	-0.1	0.0
1987	D	-2449.2	-2449.2	0.0	0.0
1988	C	-2220.4	-2220.5	-0.1	0.0
1989	D	-1221.3	-1223.4	-2.1	0.2
1990	C	-2602.5	-2601.5	1.0	0.0
1991	C	-1141.3	-1141.3	0.0	0.0
	Mean:	-1734.1	-1739.4	-5.4	0.2
	Median:	-2220.4	-2220.5	0.0	0.0
	Min:	-3148.5	-3246.3	-97.8	-0.3
	Max:	3295.5	3295.5	7.1	3.1

**Middle River at Middle River Flow**

**March**

Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Flow (cfs)	Flow (cfs)		
1975	W	-2860.3	-2860.3	0.0	0.0
1976	C	-2397.5	-2397.5	0.0	0.0
1977	C	-1002.7	-999.6	3.2	-0.3
1978	AN	-1601.0	-1601.0	0.0	0.0
1979	BN	-1982.0	-1982.8	-0.8	0.0
1980	AN	-1272.6	-1272.6	0.0	0.0
1981	D	-3100.5	-3014.0	86.6	-2.8
1982	W	-2022.1	-2022.1	0.0	0.0
1983	W	4141.9	4142.0	0.1	0.0
1984	W	-2978.8	-2978.8	0.0	0.0
1985	D	-2053.4	-2049.7	3.7	-0.2
1986	W	-375.2	-375.2	0.0	0.0
1987	D	-2311.4	-2311.3	0.0	0.0
1988	C	-1134.4	-1131.9	2.6	-0.2
1989	D	-3657.0	-3654.0	3.0	-0.1
1990	C	-1956.8	-1950.8	6.1	-0.3
1991	C	-3648.3	-3648.2	0.0	0.0
	Mean:	-1777.2	-1771.0	6.1	-0.2
	Median:	-2022.1	-2022.1	0.0	0.0
	Min:	-3657.0	-3654.0	-0.8	-2.8
	Max:	4141.9	4142.0	86.6	0.0



### Middle River at Middle River Flow

#### April

Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Flow (cfs)	Flow (cfs)		
1975	W	-2165.6	-2165.5	0.1	0.0
1976	C	-1539.1	-1539.2	-0.1	0.0
1977	C	-1141.3	-1141.2	0.1	0.0
1978	AN	-629.5	-629.4	0.1	0.0
1979	BN	-1959.5	-1959.7	-0.2	0.0
1980	AN	-1706.8	-1706.7	0.1	0.0
1981	D	-1894.7	-1893.7	1.0	-0.1
1982	W	596.2	596.2	0.0	0.0
1983	W	832.6	832.6	0.0	0.0
1984	W	-2084.3	-2084.3	0.0	0.0
1985	D	-1748.9	-1748.8	0.0	0.0
1986	W	-1347.9	-1347.8	0.1	0.0
1987	D	-1787.6	-1787.6	0.0	0.0
1988	C	-1556.2	-1556.3	0.0	0.0
1989	D	-2161.0	-2161.1	-0.1	0.0
1990	C	-1232.8	-1232.7	0.1	0.0
1991	C	-1332.4	-1332.6	-0.2	0.0
Mean:		-1344.6	-1344.6	0.1	0.0
Median:		-1556.2	-1556.3	0.0	0.0
Min:		-2165.6	-2165.5	-0.2	-0.1
Max:		832.6	832.6	1.0	0.0

**Middle River at Middle River Flow**

**May**

Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Flow (cfs)	Flow (cfs)		
1975	W	-1908.8	-1908.7	0.1	0.0
1976	C	-1525.0	-1525.4	-0.3	0.0
1977	C	-1250.3	-1250.4	-0.1	0.0
1978	AN	-1147.7	-1147.6	0.1	0.0
1979	BN	-1913.8	-1913.6	0.2	0.0
1980	AN	-1502.5	-1502.3	0.1	0.0
1981	D	-1723.0	-1724.5	-1.5	0.1
1982	W	-844.8	-844.7	0.1	0.0
1983	W	160.8	160.8	0.0	0.0
1984	W	-1952.8	-1952.7	0.2	0.0
1985	D	-1526.6	-1526.6	0.0	0.0
1986	W	-1630.3	-1630.3	0.0	0.0
1987	D	-1487.1	-1488.4	-1.3	0.1
1988	C	-1358.3	-1358.3	0.0	0.0
1989	D	-1537.0	-1537.0	0.0	0.0
1990	C	-1359.3	-1360.8	-1.5	0.1
1991	C	-1418.0	-1419.2	-1.2	0.1
	Mean:	-1407.3	-1407.6	-0.3	0.0
	Median:	-1502.5	-1502.3	0.0	0.0
	Min:	-1952.8	-1952.7	-1.5	0.0
	Max:	160.8	160.8	0.2	0.1

**Middle River at Middle River Flow**

**June**

Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Flow (cfs)	Flow (cfs)		
1975	W	-3202.8	-3202.8	0.0	0.0
1976	C	-2033.6	-2095.3	-61.7	3.0
1977	C	-1354.5	-1477.9	-123.4	9.1
1978	AN	-1659.1	-1658.9	0.2	0.0
1979	BN	-2650.6	-2620.6	29.9	-1.1
1980	AN	-2442.2	-2428.9	13.3	-0.5
1981	D	-2353.1	-2442.6	-89.6	3.8
1982	W	-2152.3	-2152.1	0.2	0.0
1983	W	2636.3	2636.4	0.1	0.0
1984	W	-2572.4	-2525.4	47.0	-1.8
1985	D	-2500.6	-2489.0	11.6	-0.5
1986	W	-2162.9	-2162.8	0.0	0.0
1987	D	-1578.9	-1751.9	-173.0	11.0
1988	C	-1322.8	-1427.2	-104.4	7.9
1989	D	-1884.4	-1884.4	0.0	0.0
1990	C	-1416.8	-1542.8	-126.0	8.9
1991	C	-1629.8	-1748.1	-118.4	7.3
	Mean:	-1781.2	-1822.0	-40.8	2.8
	Median:	-2033.6	-2095.3	0.0	0.0
	Min:	-3202.8	-3202.8	-173.0	-1.8
	Max:	2636.3	2636.4	47.0	11.0

**Middle River at Middle River Flow**

**July**

Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Flow (cfs)	Flow (cfs)		
1975	W	-4207.2	-4032.9	174.3	-4.1
1976	C	-2789.4	-2800.7	-11.3	0.4
1977	C	-2486.0	-2526.0	-40.0	1.6
1978	AN	-4232.1	-4084.6	147.5	-3.5
1979	BN	-4192.9	-4129.9	63.0	-1.5
1980	AN	-3913.0	-3796.0	117.1	-3.0
1981	D	-3922.1	-3980.9	-58.8	1.5
1982	W	-4094.2	-3947.2	146.9	-3.6
1983	W	-1882.3	-1882.1	0.2	0.0
1984	W	-3611.6	-3352.6	259.1	-7.2
1985	D	-4320.9	-4337.9	-17.0	0.4
1986	W	-4137.8	-3858.1	279.7	-6.8
1987	D	-2986.6	-3084.0	-97.4	3.3
1988	C	-2321.9	-2366.0	-44.1	1.9
1989	D	-3743.3	-3744.3	-1.0	0.0
1990	C	-2324.1	-2196.9	127.2	-5.5
1991	C	-2321.0	-2227.9	93.1	-4.0
	Mean:	-3381.6	-3314.6	67.0	-1.8
	Median:	-3743.3	-3744.3	63.0	-1.5
	Min:	-4320.9	-4337.9	-97.4	-7.2
	Max:	-1882.3	-1882.1	279.7	3.3

**Middle River at Middle River Flow**

**August**

Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Flow (cfs)	Flow (cfs)		
1975	W	-4128.8	-4108.6	20.2	-0.5
1976	C	-2537.3	-2585.3	-48.0	1.9
1977	C	-1894.4	-1925.6	-31.2	1.6
1978	AN	-4039.7	-3986.1	53.6	-1.3
1979	BN	-4081.5	-4025.6	55.9	-1.4
1980	AN	-4193.4	-4032.8	160.7	-3.8
1981	D	-3575.4	-3514.9	60.5	-1.7
1982	W	-4181.9	-3904.1	277.8	-6.6
1983	W	-4133.9	-4133.6	0.3	0.0
1984	W	-4226.4	-4205.4	21.0	-0.5
1985	D	-4136.1	-4153.4	-17.3	0.4
1986	W	-4222.7	-4199.3	23.4	-0.6
1987	D	-3303.9	-3306.7	-2.8	0.1
1988	C	-1438.7	-1474.4	-35.7	2.5
1989	D	-3610.1	-3481.2	128.9	-3.6
1990	C	-1909.0	-1775.2	133.8	-7.0
1991	C	-2532.6	-2433.8	98.8	-3.9
	Mean:	-3420.3	-3367.4	52.9	-1.4
	Median:	-4039.7	-3904.1	23.4	-0.6
	Min:	-4226.4	-4205.4	-48.0	-7.0
	Max:	-1438.7	-1474.4	277.8	2.5

**Middle River at Middle River Flow**

**September**

Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Flow (cfs)	Flow (cfs)		
1975	W	-4020.5	-4020.3	0.2	0.0
1976	C	-2693.9	-2725.5	-31.6	1.2
1977	C	-1966.4	-1982.2	-15.8	0.8
1978	AN	-3724.2	-3716.9	7.3	-0.2
1979	BN	-3257.7	-3165.1	92.5	-2.8
1980	AN	-3953.9	-3951.5	2.3	-0.1
1981	D	-3452.3	-3451.9	0.5	0.0
1982	W	-3782.4	-3779.3	3.1	-0.1
1983	W	-3291.6	-3291.6	0.0	0.0
1984	W	-3876.4	-3872.5	4.0	-0.1
1985	D	-3699.6	-3707.2	-7.6	0.2
1986	W	-3916.0	-3909.1	6.8	-0.2
1987	D	-3060.3	-3081.3	-21.0	0.7
1988	C	-1956.5	-1984.5	-28.1	1.4
1989	D	-3251.6	-3251.3	0.3	0.0
1990	C	-2139.4	-2069.4	70.0	-3.3
1991	C	-2179.0	-2122.1	57.0	-2.6
	Mean:	-3189.5	-3181.3	8.2	-0.3
	Median:	-3291.6	-3291.6	0.5	0.0
	Min:	-4020.5	-4020.3	-31.6	-3.3
	Max:	-1956.5	-1982.2	92.5	1.4

Long-term and Water Year Type Average Flow at the Middle River at Mowry Bridge under CEQA Existing Condition and CEQA No Project Alternative Conditions

Analysis Period	Flow (cfs)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Long-term</b>												
<b>Full Simulation Period<sup>2</sup></b>												
CEQA Existing Condition	12.2	34.6	153.6	188.8	357.7	397.0	218.2	130.2	305.8	157.1	81.8	108.1
CEQA No Project Alternative	12.3	34.7	153.6	188.9	357.7	397.1	218.2	130.2	305.8	156.8	81.6	108.1
Difference	0.2	0.1	0.0	0.1	-0.1	0.1	0.0	0.0	0.0	-0.2	-0.2	0.0
Percent Difference <sup>3</sup>	1.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	-0.2	0.0
<b>Water Year Types<sup>1</sup></b>												
<b>Wet</b>												
CEQA Existing Condition	179.3	145.0	432.9	461.9	784.3	1026.7	619.7	402.3	696.7	298.3	102.4	172.0
CEQA No Project Alternative	179.3	145.0	432.9	461.9	784.4	1026.7	619.7	402.3	696.6	297.7	102.1	172.0
Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.6	-0.3	0.0
Percent Difference	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.2	-0.3	0.0
<b>Above Normal</b>												
CEQA Existing Condition	-54.4	-8.6	28.2	291.9	715.3	450.8	326.3	204.0	429.7	172.3	115.4	139.6
CEQA No Project Alternative	-53.8	-8.1	28.2	292.0	715.3	450.8	326.3	204.0	429.7	171.8	114.8	139.6
Difference	0.5	0.5	0.0	0.1	0.0	0.0	0.0	0.0	0.0	-0.5	-0.6	0.0
Percent Difference	-1.0	-5.9	0.1	0.1	0.0	0.0	0.0	0.0	0.0	-0.3	-0.5	0.0
<b>Below Normal</b>												
CEQA Existing Condition	-63.5	-12.4	51.4	98.1	330.7	300.8	57.1	-23.0	122.7	114.4	103.9	100.9
CEQA No Project Alternative	-63.5	-12.4	51.4	98.1	330.7	300.9	57.1	-23.0	122.5	114.0	103.7	100.6
Difference	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	-0.1	-0.4	-0.2	-0.3
Percent Difference	-0.1	-0.3	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	-0.3	-0.2	-0.3
<b>Dry</b>												
CEQA Existing Condition	-59.6	-14.5	41.3	23.7	45.1	45.2	-6.8	-14.5	91.4	97.2	78.5	78.4
CEQA No Project Alternative	-59.2	-14.6	41.3	23.7	44.7	45.6	-6.8	-14.5	91.4	97.5	78.4	78.4
Difference	0.4	0.0	0.0	0.0	-0.4	0.3	0.0	0.0	-0.1	0.3	-0.1	0.0
Percent Difference	-0.7	0.1	0.0	0.0	-0.8	0.8	-0.1	-0.1	-0.1	0.3	-0.1	0.0
<b>Critical</b>												
CEQA Existing Condition	-55.8	-9.7	34.9	24.9	43.6	46.4	-14.3	-25.0	73.4	66.1	45.9	56.8
CEQA No Project Alternative	-55.8	-9.8	34.7	25.1	43.7	46.5	-14.3	-25.0	73.4	66.1	46.1	56.9
Difference	0.0	0.0	-0.2	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.2	0.1
Percent Difference	-0.1	0.5	-0.6	0.9	0.0	0.1	0.0	-0.1	0.0	0.0	0.4	0.2

1 As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB 1995)

2 Based on the 17-year simulation period

3 Relative difference of the monthly average

### Middle River at Mowry Bridge Flow

#### October

Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Flow (cfs)	Flow (cfs)		
1975	W	-66.4	-66.4	0.0	0.0
1976	C	-67.9	-67.9	0.0	0.0
1977	C	-55.8	-55.8	0.0	0.0
1978	AN	-41.6	-41.6	0.0	0.0
1979	BN	-63.5	-63.5	0.0	0.0
1980	AN	-67.1	-66.1	1.1	-1.6
1981	D	-62.3	-62.3	0.1	-0.2
1982	W	-67.2	-67.2	0.0	0.0
1983	W	538.5	538.5	0.0	0.0
1984	W	556.8	556.8	0.0	0.0
1985	D	-68.6	-68.6	0.0	0.0
1986	W	-65.4	-65.5	0.0	0.0
1987	D	-66.4	-64.9	1.5	-2.3
1988	C	-48.7	-48.7	0.0	0.0
1989	D	-41.2	-41.2	0.0	0.0
1990	C	-65.4	-65.3	0.1	-0.2
1991	C	-41.3	-41.1	0.2	-0.5
	Mean:	12.2	12.3	0.2	-0.3
	Median:	-63.5	-63.5	0.0	0.0
	Min:	-68.6	-68.6	0.0	-2.3
	Max:	556.8	556.8	1.5	0.0



### Middle River at Mowry Bridge Flow

#### November

Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Flow (cfs)	Flow (cfs)		
1975	W	-29.5	-29.5	0.0	0.0
1976	C	-30.4	-30.5	0.0	0.0
1977	C	-10.6	-10.8	-0.2	1.9
1978	AN	8.6	8.6	0.0	0.0
1979	BN	-12.4	-12.4	0.0	0.0
1980	AN	-25.8	-24.8	1.0	-3.9
1981	D	-6.6	-6.5	0.0	0.0
1982	W	-39.1	-39.1	0.0	0.0
1983	W	252.2	252.2	0.1	0.0
1984	W	564.1	564.1	0.0	0.0
1985	D	-39.9	-39.9	-0.1	0.3
1986	W	-22.8	-22.8	0.0	0.0
1987	D	-12.8	-12.7	0.1	-0.8
1988	C	-12.1	-12.2	-0.1	0.8
1989	D	1.0	1.0	0.0	0.0
1990	C	-10.4	-10.4	0.0	0.0
1991	C	14.9	14.9	0.0	0.0
	Mean:	34.6	34.7	0.0	-0.1
	Median:	-12.1	-12.2	0.0	0.0
	Min:	-39.9	-39.9	-0.2	-3.9
	Max:	564.1	564.1	1.0	1.9

### Middle River at Mowry Bridge Flow

#### December

Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Flow (cfs)	Flow (cfs)		
1975	W	35.1	35.1	0.0	0.0
1976	C	32.7	32.7	0.0	0.0
1977	C	55.1	54.9	-0.1	-0.2
1978	AN	25.3	25.4	0.0	0.0
1979	BN	51.4	51.4	0.0	0.0
1980	AN	31.1	31.1	0.0	0.0
1981	D	45.0	45.0	0.0	0.0
1982	W	26.0	26.0	0.0	0.0
1983	W	934.3	934.3	0.0	0.0
1984	W	1149.0	1149.0	0.0	0.0
1985	D	32.2	32.2	0.0	0.0
1986	W	19.9	19.9	0.0	0.0
1987	D	53.3	53.3	0.0	0.0
1988	C	16.3	16.4	0.1	0.6
1989	D	34.5	34.5	0.0	0.0
1990	C	20.9	20.0	-0.9	-4.3
1991	C	49.6	49.5	-0.1	-0.2
	Mean:	153.6	153.6	-0.1	-0.2
	Median:	34.5	34.5	0.0	0.0
	Min:	16.3	16.4	-0.9	-4.3
	Max:	1149.0	1149.0	0.1	0.6

### Middle River at Mowry Bridge Flow

#### January

Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Flow (cfs)	Flow (cfs)		
1975	W	25.3	25.4	0.0	0.0
1976	C	26.4	26.5	0.0	0.0
1977	C	43.4	43.7	0.3	0.7
1978	AN	77.9	77.8	0.0	0.0
1979	BN	98.1	98.1	0.0	0.0
1980	AN	505.8	506.2	0.3	0.1
1981	D	27.5	27.6	0.0	0.0
1982	W	216.8	216.8	0.0	0.0
1983	W	1363.2	1363.2	0.0	0.0
1984	W	677.0	677.0	0.0	0.0
1985	D	18.7	18.7	0.0	0.0
1986	W	27.1	27.0	0.0	0.0
1987	D	28.9	28.9	0.0	0.0
1988	C	3.6	3.6	0.0	0.0
1989	D	19.8	19.8	0.0	0.0
1990	C	8.0	8.8	0.9	11.3
1991	C	42.8	42.8	0.0	0.0
	Mean:	188.8	188.9	0.1	0.7
	Median:	28.9	28.9	0.0	0.0
	Min:	3.6	3.6	0.0	0.0
	Max:	1363.2	1363.2	0.9	11.3

### Middle River at Mowry Bridge Flow

#### February

Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Flow (cfs)	Flow (cfs)		
1975	W	157.8	157.8	0.0	0.0
1976	C	44.9	44.9	0.0	0.0
1977	C	54.7	54.7	0.0	0.0
1978	AN	276.8	276.8	0.0	0.0
1979	BN	330.7	330.7	0.0	0.0
1980	AN	1153.8	1153.8	0.0	0.0
1981	D	47.9	46.4	-1.5	-3.1
1982	W	594.7	594.7	0.0	0.0
1983	W	2032.5	2032.6	0.1	0.0
1984	W	361.8	361.8	0.0	0.0
1985	D	42.9	43.1	0.1	0.2
1986	W	774.8	774.8	0.0	0.0
1987	D	44.3	44.3	0.0	0.0
1988	C	37.1	37.1	0.0	0.0
1989	D	45.2	45.2	-0.1	-0.2
1990	C	28.1	28.1	0.0	0.0
1991	C	53.5	53.5	0.0	0.0
	Mean:	357.7	357.7	-0.1	-0.2
	Median:	54.7	54.7	0.0	0.0
	Min:	28.1	28.1	-1.5	-3.1
	Max:	2032.5	2032.6	0.1	0.2

### Middle River at Mowry Bridge Flow

#### March

Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Flow (cfs)	Flow (cfs)		
1975	W	311.2	311.2	0.0	0.0
1976	C	50.6	50.6	0.0	0.0
1977	C	53.4	53.5	0.1	0.2
1978	AN	331.4	331.4	0.0	0.0
1979	BN	300.8	300.9	0.1	0.0
1980	AN	570.2	570.2	0.0	0.0
1981	D	72.7	74.0	1.4	1.9
1982	W	683.2	683.2	0.0	0.0
1983	W	2651.8	2651.8	0.0	0.0
1984	W	171.1	171.1	0.0	0.0
1985	D	50.7	50.7	0.0	0.0
1986	W	1316.1	1316.1	0.0	0.0
1987	D	45.2	45.2	0.0	0.0
1988	C	59.2	59.2	0.1	0.2
1989	D	12.4	12.3	0.0	0.0
1990	C	42.7	42.8	0.1	0.2
1991	C	26.4	26.4	0.0	0.0
	Mean:	397.0	397.1	0.1	0.1
	Median:	72.7	74.0	0.0	0.0
	Min:	12.4	12.3	0.0	0.0
	Max:	2651.8	2651.8	1.4	1.9

### Middle River at Mowry Bridge Flow

#### April

Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Flow (cfs)	Flow (cfs)		
1975	W	68.1	68.1	0.0	0.0
1976	C	-9.7	-9.7	0.0	0.0
1977	C	-8.7	-8.7	0.0	0.0
1978	AN	562.1	562.0	0.0	0.0
1979	BN	57.0	57.1	0.0	0.0
1980	AN	90.6	90.6	0.0	0.0
1981	D	10.6	10.7	0.1	0.9
1982	W	1403.3	1403.3	0.0	0.0
1983	W	1093.7	1093.7	0.0	0.0
1984	W	42.6	42.6	0.0	0.0
1985	D	1.3	1.3	0.0	0.0
1986	W	490.9	490.9	0.0	0.0
1987	D	-11.6	-11.6	0.0	0.0
1988	C	-25.3	-25.2	0.0	0.0
1989	D	-27.4	-27.4	0.0	0.0
1990	C	-10.2	-10.2	0.0	0.0
1991	C	-17.9	-17.9	0.0	0.0
	Mean:	218.2	218.2	0.0	0.1
	Median:	10.6	10.7	0.0	0.0
	Min:	-27.4	-27.4	0.0	0.0
	Max:	1403.3	1403.3	0.1	0.9

### Middle River at Mowry Bridge Flow

#### May

Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Flow (cfs)	Flow (cfs)		
1975	W	-20.2	-20.2	0.0	0.0
1976	C	-3.2	-3.2	0.0	0.0
1977	C	-40.2	-40.2	0.0	0.0
1978	AN	428.2	428.2	0.0	0.0
1979	BN	-23.0	-23.0	0.0	0.0
1980	AN	-20.3	-20.3	0.0	0.0
1981	D	-22.4	-22.3	0.0	0.0
1982	W	766.0	765.9	0.0	0.0
1983	W	1034.1	1034.0	0.0	0.0
1984	W	-16.2	-16.2	0.0	0.0
1985	D	-16.2	-16.2	0.0	0.0
1986	W	247.7	247.7	0.0	0.0
1987	D	-4.6	-4.6	0.1	-2.2
1988	C	-24.7	-24.7	0.0	0.0
1989	D	-14.7	-14.7	0.0	0.0
1990	C	-35.3	-35.2	0.1	-0.3
1991	C	-21.7	-21.7	0.0	0.0
	Mean:	130.2	130.2	0.0	-0.1
	Median:	-16.2	-16.2	0.0	0.0
	Min:	-40.2	-40.2	0.0	-2.2
	Max:	1034.1	1034.0	0.1	0.0

### Middle River at Mowry Bridge Flow

#### June

Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Flow (cfs)	Flow (cfs)		
1975	W	230.5	230.5	0.0	0.0
1976	C	88.7	88.7	0.0	0.0
1977	C	70.1	70.1	-0.1	-0.1
1978	AN	587.7	587.6	0.0	0.0
1979	BN	122.7	122.5	-0.1	-0.1
1980	AN	271.8	271.8	0.0	0.0
1981	D	100.2	100.5	0.2	0.2
1982	W	507.5	507.5	0.0	0.0
1983	W	2283.0	2283.0	0.0	0.0
1984	W	142.6	142.4	-0.2	-0.1
1985	D	99.0	99.0	0.0	0.0
1986	W	319.7	319.7	0.0	0.0
1987	D	92.7	92.2	-0.5	-0.5
1988	C	69.7	69.8	0.1	0.1
1989	D	73.7	73.7	0.0	0.0
1990	C	72.6	72.6	0.0	0.0
1991	C	66.0	65.9	-0.1	-0.2
Mean:		305.8	305.7	0.0	0.0
Median:		100.2	100.5	0.0	0.0
Min:		66.0	65.9	-0.5	-0.5
Max:		2283.0	2283.0	0.2	0.2



### Middle River at Mowry Bridge Flow

#### July

Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Flow (cfs)	Flow (cfs)		
1975	W	136.3	135.6	-0.7	-0.5
1976	C	87.7	87.6	-0.1	-0.1
1977	C	45.9	46.0	0.1	0.2
1978	AN	148.0	147.3	-0.6	-0.4
1979	BN	114.4	114.0	-0.4	-0.3
1980	AN	196.6	196.3	-0.4	-0.2
1981	D	105.4	105.8	0.4	0.4
1982	W	194.7	194.2	-0.5	-0.3
1983	W	893.1	893.1	0.0	0.0
1984	W	128.6	127.1	-1.6	-1.2
1985	D	105.6	105.7	0.1	0.1
1986	W	139.0	138.5	-0.5	-0.4
1987	D	91.9	92.3	0.5	0.5
1988	C	62.8	62.9	0.1	0.2
1989	D	85.9	86.2	0.3	0.3
1990	C	67.4	67.4	-0.1	-0.1
1991	C	66.6	66.5	-0.1	-0.2
	Mean:	157.0	156.8	-0.2	-0.1
	Median:	105.6	105.8	-0.1	-0.1
	Min:	45.9	46.0	-1.6	-1.2
	Max:	893.1	893.1	0.5	0.5

### Middle River at Mowry Bridge Flow

#### August

Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Flow (cfs)	Flow (cfs)		
1975	W	116.6	116.6	0.0	0.0
1976	C	78.1	78.3	0.1	0.1
1977	C	33.0	32.9	-0.1	-0.3
1978	AN	112.3	111.9	-0.3	-0.3
1979	BN	103.9	103.6	-0.2	-0.2
1980	AN	118.5	117.7	-0.8	-0.7
1981	D	93.7	93.4	-0.3	-0.3
1982	W	126.9	125.3	-1.5	-1.2
1983	W	22.1	22.0	0.0	0.0
1984	W	123.1	123.1	0.0	0.0
1985	D	94.8	94.9	0.1	0.1
1986	W	123.4	123.3	-0.1	-0.1
1987	D	74.1	74.1	0.0	0.0
1988	C	35.6	35.5	-0.1	-0.3
1989	D	51.5	51.3	-0.3	-0.6
1990	C	42.6	43.1	0.5	1.2
1991	C	40.2	40.6	0.4	1.0
	Mean:	81.8	81.6	-0.2	-0.1
	Median:	93.7	93.4	-0.1	-0.1
	Min:	22.1	22.0	-1.5	-1.2
	Max:	126.9	125.3	0.5	1.2

### Middle River at Mowry Bridge Flow

#### September

Water Year	Water Year Type	CEQA Existing Condition	CEQA No Project Alternative	Absolute Difference	Relative Difference (%)
		Flow (cfs)	Flow (cfs)		
1975	W	112.2	112.2	0.0	0.0
1976	C	63.4	63.6	0.1	0.2
1977	C	51.9	51.8	-0.1	-0.2
1978	AN	135.4	135.4	0.0	0.0
1979	BN	100.9	100.6	-0.3	-0.3
1980	AN	143.7	143.7	0.0	0.0
1981	D	87.6	87.6	0.0	0.0
1982	W	202.5	202.5	0.0	0.0
1983	W	314.9	314.9	0.0	0.0
1984	W	111.2	111.2	0.0	0.0
1985	D	91.6	91.6	0.0	0.0
1986	W	119.0	118.9	0.0	0.0
1987	D	66.7	66.7	0.1	0.2
1988	C	54.2	54.1	-0.1	-0.2
1989	D	67.8	67.8	0.0	0.0
1990	C	58.2	58.4	0.2	0.3
1991	C	56.3	56.8	0.5	0.9
	Mean:	108.1	108.1	0.0	0.1
	Median:	91.6	91.6	0.0	0.0
	Min:	51.9	51.8	-0.3	-0.3
	Max:	314.9	314.9	0.5	0.9