

GRASSLAND BYPASS PROJECT

MONTHLY DATA REPORT

October 1996

December 19, 1996

Preliminary Results

A cooperative effort of:

U.S. Bureau of Reclamation
Central Valley Regional Water Quality Control Board
U.S. Fish and Wildlife Service
California Department of Fish and Game
San Luis & Delta-Mendota Water Authority
U.S. Environmental Protection Agency
U.S. Geological Survey

compiled by San Francisco Estuary Institute

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MONTHLY DATA REPORT

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Table 1. Continuous water monitoring at Station A (inflow to San Luis Drain), October 1996.

See Table 24 for explanation of footnotes and agency abbreviations.

PARAMETER	Flow
DATA SOURCE	USBR
UNITS	cfs
01-Oct-96	23.7
02-Oct-96	19.0
03-Oct-96	20.1
04-Oct-96	18.5
05-Oct-96	19.6
06-Oct-96	21.2
07-Oct-96	21.3
08-Oct-96	20.4
09-Oct-96	21.3
10-Oct-96	22.1
11-Oct-96	25.8
12-Oct-96	25.4 ^e
13-Oct-96	25.4 ^e
14-Oct-96	24.1 ^b
15-Oct-96	25.1 ^b
16-Oct-96	26.8
17-Oct-96	21.8
18-Oct-96	22.7
19-Oct-96	23.2
20-Oct-96	23.1
21-Oct-96	20.9
22-Oct-96	19.6
23-Oct-96	20.0
24-Oct-96	19.0
25-Oct-96	18.3
26-Oct-96	17.2
27-Oct-96	15.7
28-Oct-96	16.4
29-Oct-96	19.1
30-Oct-96	29.9
31-Oct-96	33.8

Table 2. Continuous water monitoring at Station B (discharge from San Luis Drain), October 1996.

See Table 24 for explanation of footnotes and agency abbreviations.

PARAMETER	Flow	Temperature	Specific Conductance	Selenium (total)	Selenium (total) Load
DATA SOURCE	USBR	USBR	USBR	CVRWQCB	Computed
UNITS	cfs	°C	µS/cm	µg/l	lbs
Oct-01-1996	21.8	NP	NP	90.3	10.6
Oct-02-1996	20.0	NP	NP	106.0	11.4
Oct-03-1996	18.1	22.8	3,798	66.3	6.5
Oct-04-1996	18.3	23.0	3,800	59.0	5.8
Oct-05-1996	17.3	23.2	3,845	56.4	5.3
Oct-06-1996	17.7	23.3	3,893	61.3	5.9
Oct-07-1996	19.8	23.8	3,809	59.8	6.4
Oct-08-1996	19.3	24.7	4,064	63.0	6.6
Oct-09-1996	19.6	23.9	4,135	64.8	6.9
Oct-10-1996	21.2	22.8	4,115	63.5	7.3
Oct-11-1996	20.6	22.2	4,403	69.6	7.7
Oct-12-1996	23.7	21.9	4,599	72.6	9.3
Oct-13-1996	23.3	21.9	4,233	52.6	6.6
Oct-14-1996	23.8	21.1	4,115	52.6 ^{est 5}	6.8
Oct-15-1996	22.8	20.4	4,384	47.2 ^{est 5}	5.8
Oct-16-1996	24.1	19.2	4,037	47.2 ^{est 5}	6.1
Oct-17-1996	24.3	18.1	3,676	47.2 ^{est 5}	6.2
Oct-18-1996	21.7	18.0	3,222	41.8 ^{est 5}	4.9
Oct-19-1996	21.6	17.2	3,120	41.8	4.9
Oct-20-1996	21.5	15.8	3,207	41.4	4.8
Oct-21-1996	22.0	15.0	3,262	40.8	4.8
Oct-22-1996	19.5	14.9	3,271	43.7	4.6
Oct-23-1996	19.4	15.4	3,629	49.8	5.2
Oct-24-1996	19.6	15.7	3,958	78.4	8.3
Oct-25-1996	18.3	15.2	4,060	78.8	7.8
Oct-26-1996	19.3	13.5	3,985	59.8	6.2
Oct-27-1996	17.5	13.1	3,666	40.3	3.8
Oct-28-1996	16.4	13.4	4,118	56.8	5.0
Oct-29-1996	17.8	13.1	4,170	52.3	5.0
Oct-30-1996	24.8	12.9	3,979	60.3	8.1
Oct-31-1996	28.3	13.0	3,916	51.9	7.9
Mean	20.8	18.6	3,878	60.8	
Total					202

Load Limitation for October 1996 (lbs)	348
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**Table 3. Continuous water monitoring at Station D
(Mud Slough North downstream of drainage discharges), October 1996.**

See Table 24 for explanation of footnotes and agency abbreviations.

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	usgs	usgs	usgs
UNITS	cfs	°C	µS/cm
01-Oct-96	56	22.1	3,160
02-Oct-96	50	22.0	3,490
03-Oct-96	44	22.2	3,040
04-Oct-96	47	22.4	2,310
05-Oct-96	59	22.6	1,830
06-Oct-96	56	22.7	1,870
07-Oct-96	58	23.2	1,940
08-Oct-96	68	23.5	1,860
09-Oct-96	76	23.6	1,840
10-Oct-96	82	22.3	1,760
11-Oct-96	94	21.4	1,790
12-Oct-96	104	21.2	1,970
13-Oct-96	105	21.2	1,930
14-Oct-96	110	20.2	1,800
15-Oct-96	116	19.4	1,720
16-Oct-96	114	18.0	1,820
17-Oct-96	111	16.7	1,800
18-Oct-96	114	16.9	1,560
19-Oct-96	113	16.1	1,450
20-Oct-96	117	14.4	1,430
21-Oct-96	137	13.7	1,360
22-Oct-96	150	14.1	1,290
23-Oct-96	133	15.0	1,360
24-Oct-96	140	15.2	1,410
25-Oct-96	128	14.5	1,490
26-Oct-96	116	12.3	1,580
27-Oct-96	102	12.2	1,650
28-Oct-96	90	12.8	1,660
29-Oct-96	94	12.5	1,800
30-Oct-96	128	12.4	1,790
31-Oct-96	147	12.6	1,720

Table 4. Continuous water monitoring at Station F (Salt Slough at Highway 165), October 1996.

See Table 24 for explanation of footnotes and agency abbreviations.

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	usgs	usgs	usgs
UNITS	cfs	°C	µS/cm
01-Oct-96	121	21.3	1,100
02-Oct-96	110	21.4	1,020
03-Oct-96	88	22.1	1,390
04-Oct-96	82	22.5	1,470
05-Oct-96	84	22.6	1,430
06-Oct-96	88	22.9	1,320
07-Oct-96	105	23.2	1,230
08-Oct-96	124	23.4	1,040
09-Oct-96	135	23.3	1,010
10-Oct-96	161	21.6	938
11-Oct-96	154	20.9	958
12-Oct-96	141	20.8	1,030
13-Oct-96	132	20.8	1,050
14-Oct-96	117	19.9	1,160
15-Oct-96	118	19.1	1,230
16-Oct-96	103	17.8	1,300
17-Oct-96	102	16.7	1,440
18-Oct-96	102	16.9	1,390
19-Oct-96	105	16.2	1,390
20-Oct-96	111	14.6	1,300
21-Oct-96	133	14.0	1,160
22-Oct-96	133	14.3	1,110
23-Oct-96	127	15.1	1,170
24-Oct-96	125	15.5	1,280
25-Oct-96	113	14.8	1,320
26-Oct-96	96	13.1	1,470
27-Oct-96	116	13.2	1,330
28-Oct-96	117	13.6	1,360
29-Oct-96	133	13.2	1,270
30-Oct-96	195	12.9	1,130
31-Oct-96	257	12.9	971

Table 5. Continuous water monitoring at Station N (San Joaquin River at Crow's Landing), October 1996.

See Table 24 for explanation of footnotes and agency abbreviations.

PARAMETER	Flow	Temperature	Specific Conductance	Selenium (total)
DATA SOURCE	USGS	USGS	CVRWQCB	CVRWQCB
UNITS	cfs	°C	µS/cm	µg/l
01-Oct-96	677	21.4	845	3.2
02-Oct-96	660	21.1	853	3.4
03-Oct-96	719	21.3	792	3.1
04-Oct-96	682	21.6	794	3.8
05-Oct-96	583	21.8	868	2.7
06-Oct-96	552	22.0	902	2.1
07-Oct-96	557	22.1	908	2.0
08-Oct-96	540	22.4	943	2.2
09-Oct-96	498	22.7	989	2.7
10-Oct-96	565	21.9	866	2.5
11-Oct-96	768	20.8	647	1.8
12-Oct-96	822	20.6	634	2.0
13-Oct-96	906	20.3	653	2.1
14-Oct-96	1040	19.4	585	2.0
15-Oct-96	1000	18.5	612	1.4
16-Oct-96	1170	17.5	500	1.3
17-Oct-96	1400	15.9	460	1.5
18-Oct-96	1520	15.4	439	1.3
19-Oct-96	1570	14.8	399	1.0
20-Oct-96	1640	14.0	371	0.9
21-Oct-96	1480	13.4	454	1.0
22-Oct-96	1340	13.5	486	1.0
23-Oct-96	1320	14.1	492	1.0
24-Oct-96	1290	14.4	NA	NA
25-Oct-96	1270	14.1	545	1.1
26-Oct-96	1180	12.6	569	1.4
27-Oct-96	1070	12.6	630	1.8
28-Oct-96	1070	13.0	654	1.6
29-Oct-96	1070	13.0	655	1.2
30-Oct-96	1200	12.7	648	1.1
31-Oct-96	1300	12.8	652	1.8

Table 6. Weekly water quality monitoring at Station A (inflow to San Luis Drain), 1996.

See Table 24 for explanation of footnotes and agency abbreviations.

PARAMETER	Temperature	pH	Specific Conductance	Total Suspended Solids	Selenium (total)	Selenium (dissolved)	Boron
DATA SOURCE	CVRWQCB	CVRWQCB	CVRWQCB	CVRWQCB	CVRWQCB	CVRWQCB	CVRWQCB
UNITS	°C		µS/cm	mg/l	µg/l	µg/l	mg/l
03-Oct-96	21.0	8.1	5,210	P	77.4	79.1	P
08-Oct-96	25.4	8.3	4,220	P	75.5	NP	P
18-Oct-96	16.6	7.1	3,940	P	38.6	37.5	P
25-Oct-96	14.3	8.3	4,270	P	51.4	49.5	P
31-Oct-96	12.1	8.1	4,020	P	62.0	NP	P

Table 7. Weekly water quality monitoring at Station B (discharge from San Luis Drain), 1996.

See Table 24 for explanation of footnotes and agency abbreviations.

PARAMETER	Temperature	pH	Specific Conductance	Total Suspended Solids	Selenium (total)	Selenium (dissolved)	Boron
DATA SOURCE	CVRWQCB	CVRWQCB	CVRWQCB	CVRWQCB	CVRWQCB	CVRWQCB	CVRWQCB
UNITS	°C		µS/cm	mg/l	µg/l	µg/l	mg/l
03-Oct-96	21.0	7.9	4,340	P	66.8	65.8	P
08-Oct-96	23.2	7.3	4,330	P	62.5	NP	P
18-Oct-96	16.6	6.9	3,590	P	43.0	41.8	P
25-Oct-96	14.3	8.0	4,280	P	79.8	77.2	P
29-Oct-96	12.1	7.6	4,260	P	54.6	NP	P

Table 8. Weekly water quality monitoring at Station C (Mud Slough North upstream of drainage discharges), 1996.

See Table 24 for explanation of footnotes and agency abbreviations.

PARAMETER	Temperature	pH	Specific Conductance	Total Suspended Solids	Selenium (total)	Boron
DATA SOURCE	CVRWQCB	CVRWQCB	CVRWQCB	CVRWQCB	CVRWQCB	CVRWQCB
UNITS	°C		µS/cm	mg/l	µg/l	mg/l
03-Oct-96	18.2	6.3	1,048	P	0.70	P
08-Oct-96	21.6	8.0	744	P	0.62	P
18-Oct-96	14.3	5.2	967	P	0.76	P
25-Oct-96	13.8	7.8	953	P	0.50	P
29-Oct-96	13.2	7.8	1,124	P	0.46	P

Table 9. Weekly water quality monitoring at Station D (Mud Slough North downstream of drainage discharges), 199

See Table 24 for explanation of footnotes and agency abbreviations.

PARAMETER	Temperature	pH	Specific Conductance	Total Suspended Solids	Selenium (total)	Boron
DATA SOURCE	CVRWQCB	CVRWQCB	CVRWQCB	CVRWQCB	CVRWQCB	CVRWQCB
UNITS	°C		µS/cm	mg/l	µg/l	mg/l
03-Oct-96	19.9	7.0	3,490	P	56.7	P
08-Oct-96	22.7	8.0	1,890	P	20.3	P
18-Oct-96	14.9	6.0	1,683	P	13.5	P
25-Oct-96	14.3	8.0	1,544	P	13.8	P
29-Oct-96	13.2	7.4	1,878	P	12.2	P

Table 10. Weekly water quality monitoring at Station F (Salt Slough at Highway 165), 1996.

See Table 24 for explanation of footnotes and agency abbreviations.

PARAMETER	Temperature	pH	Specific Conductance	Total Suspended Solids	Selenium (total)	Boron
DATA SOURCE	CVRWQCB	CVRWQCB	CVRWQCB	CVRWQCB	CVRWQCB	CVRWQCB
UNITS	°C		µS/cm	mg/l	µg/l	mg/l
03-Oct-96	19.3	5.6	1,400	P	1.19	P
08-Oct-96	NP	NP	NP	P	1.11	P
17-Oct-96	18.2	6.7	1,790	P	0.76	P
24-Oct-96	14.9	6.1	1,355	P	0.68	P
31-Oct-96	13.8	5.7	1,000	P	0.98	P

Table 11. Weekly water quality monitoring at Station G (San Joaquin River at Fremont Ford), 1996.

See Table 24 for explanation of footnotes and agency abbreviations.

PARAMETER	Temperature	pH	Specific Conductance	Total Suspended Solids	Selenium (total)	Boron
DATA SOURCE	CVRWQCB	CVRWQCB	CVRWQCB	CVRWQCB	CVRWQCB	CVRWQCB
UNITS	°C		µS/cm	mg/l	µg/l	mg/l
03-Oct-96	19.9	6.7	714	P	0.58	P
08-Oct-96	21.6	8.0	1,150	P	0.86	P
17-Oct-96	17.1	5.6	1,490	P	0.60	P
24-Oct-96	14.3	7.1	777	P	0.47	P
31-Oct-96	13.8	6.8	728	P	0.94	P

Table 12. Weekly water quality monitoring at Station H (San Joaquin River at Hills Ferry), 1996.

See Table 24 for explanation of footnotes and agency abbreviations.

PARAMETER	Temperature	pH	Specific Conductance	Total Suspended Solids	Selenium (total)	Boron
DATA SOURCE	CVRWQCB	CVRWQCB	CVRWQCB	CVRWQCB	CVRWQCB	CVRWQCB
UNITS	°C		µS/cm	mg/l	µg/l	mg/l
03-Oct-96	19.3	6.8	1,172	P	6.76	P
08-Oct-96	22.7	7.7	1,480	P	5.20	P
17-Oct-96	19.3	7.5	1,690	P	5.88	P
24-Oct-96	14.9	7.5	1,006	P	2.32	P
31-Oct-96	14.9	7.9	989	P	2.88	P

Table 13. Weekly water quality monitoring at Station J (Camp 13 Ditch), 1996.

See Table 24 for explanation of footnotes and agency abbreviations.

PARAMETER	Temperature	pH	Specific Conductance	Total Suspended Solids	Selenium (total)	Boron
DATA SOURCE	CVRWQCB	CVRWQCB	CVRWQCB	CVRWQCB	CVRWQCB	CVRWQCB
UNITS	°C		µS/cm	mg/l	µg/l	mg/l
03-Oct-96	20.4	8.3	382	P	0.76	P
08-Oct-96	22.1	8.7	347	P	0.82	P
18-Oct-96	17.7	8.5	360	P	0.60	P
25-Oct-96	14.9	8.7	394	P	0.77	P

Table 14. Weekly water quality monitoring at Station K (Agatha Canal), 1996.

See Table 24 for explanation of footnotes and agency abbreviations.

PARAMETER	Temperature	pH	Specific Conductance	Total Suspended Solids	Selenium (total)	Boron
DATA SOURCE	CVRWQCB	CVRWQCB	CVRWQCB	CVRWQCB	CVRWQCB	CVRWQCB
UNITS	°C		µS/cm	mg/l	µg/l	mg/l
03-Oct-96	21.0	8.5	481	P	1.02	P
08-Oct-96	23.2	8.7	324	P	0.68	P
18-Oct-96	17.7	7.9	358	P	0.58	P
25-Oct-96	14.9	8.6	412	P	0.72	P

Table 15. Weekly water quality monitoring at Station N (San Joaquin River at Crow's Landing), 1996.

See Table 24 for explanation of footnotes and agency abbreviations.

PARAMETER	Temperature	pH	Specific Conductance	Total Suspended Solids	Selenium (total)	Boron
DATA SOURCE	CVRWQCB	CVRWQCB	CVRWQCB	CVRWQCB	CVRWQCB	CVRWQCB
UNITS	°C		µS/cm	mg/l	µg/l	mg/l
03-Oct-96	19.9	7.0	846	P	3.03	P
08-Oct-96	21.6	7.8	967	P	2.33	P
17-Oct-96	17.7	8.0	524	P	1.36	P
24-Oct-96	14.3	7.8	503	P	0.91	P
31-Oct-96	14.9	7.9	638	P	1.50	P

Table 16. Monthly water quality monitoring at Station L (San Luis Canal), 1996.

See Table 24 for explanation of footnotes and agency abbreviations.

PARAMETER	Temperature	pH	Specific Conductance	Total Suspended Solids	Selenium (total)	Boron
DATA SOURCE	CVRWQCB	CVRWQCB	CVRWQCB	CVRWQCB	CVRWQCB	CVRWQCB
UNITS	°C		µS/cm	mg/l	µg/l	mg/l
October 1996	P	P	P	P	P	P

Table 17. Monthly water quality monitoring at Station M (Santa Fe Canal), 1996.

See Table 24 for explanation of footnotes and agency abbreviations.

PARAMETER	Temperature	pH	Specific Conductance	Total Suspended Solids	Selenium (total)	Boron
DATA SOURCE	CVRWQCB	CVRWQCB	CVRWQCB	CVRWQCB	CVRWQCB	CVRWQCB
UNITS	°C		µS/cm	mg/l	µg/l	mg/l
October 1996	P	P	P	P	P	P

Table 18. Summary of fathead minnow (*Pimephales promelas*) larvae survival in 7-day tests using water samples collected from December 1995 to October 1996. Each value is the mean of 4 replicates with 10 fish in each replicate.

See Table 24 for explanation of footnotes and agency abbreviations.

PARAMETER	Station B	Station C	Station D	Station F	Delta Mendota Canal	Laboratory Control
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA
UNITS	%	%	%	%	%	%
December-95	NT	83	95	93	90	93
March-96	NT	93	95	93	95	96
August-96	NT	98	93	90	90	100
October-96	68	83	88	88	93	98

Table 19. Summary of fathead minnow (*Pimephales promelas*) larvae growth in 7-day tests using water samples collected from December 1995 to October 1996. Each value is the mean of 4 replicates with 10 fish in each replicate.

See Table 24 for explanation of footnotes and agency abbreviations.

PARAMETER	Station B	Station C	Station D	Station F	Delta Mendota Canal	Laboratory Control
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA
UNITS	grams	grams	grams	grams	grams	grams
December-95	NT	0.32	0.27	0.32	0.32	0.32
March-96	NT	0.43	0.44	0.44	0.47	0.48
August-96	NT	0.56	0.45	0.44	0.50	0.47
October-96	0.56	0.56	0.53 *	0.59	0.60	0.59

Table 20. Summary of *Daphnia magna* survival in 7-day tests using water samples collected from December 1995 to October 1996. Each value is the mean of 10 replicates with 1 animal in each replicate.

See Table 24 for explanation of footnotes and agency abbreviations.

PARAMETER	Station B	Station C	Station D	Station F	Delta Mendota Canal	Laboratory Control
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA
UNITS	%	%	%	%	%	%
December-95	NT	100	100	100	100	100
March-96	NT	90	90	100	100	100
August-96	NT	100	100	100	100	100
October-96	90	100	100	100	100	70

Table 21. Summary of *Daphnia magna* reproduction in 7-day tests using water samples collected from December 1995 to October 1996. Each value is the mean of 10 replicates with 1 animal in each replicate.

See Table 24 for explanation of footnotes and agency abbreviations.

PARAMETER	Station B	Station C	Station D	Station F	Delta Mendota Canal	Laboratory Control
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA
UNITS	neonates/female	neonates/female	neonates/female	neonates/female	neonates/female	neonates/female
December-95 ⁽¹⁾	NT	21.5 *	18.5 *	18.4 *	19.8 *	16.9
March-96	NT	18.8	23.9 *	18.2	20.1	19.9
August-96	NT	27.0	32.8 *	27.4	27.8	26.4
October-96	16.8	20.2	17.9	13.1	12.9	16.0

Table 22. Summary of *Selenastrum capricornutum* growth in 7-day tests using water samples collected from December 1995 to October 1996. Each value is the mean of 4 replicates.

See Table 24 for explanation of footnotes and agency abbreviations.

PARAMETER	Station B	Station C	Station D	Station F	Delta Mendota Canal	Laboratory Control
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA
UNITS	10 ⁵ cells/ml					
December-95	NT	22.0 *	12.0	11.0 *	12.0	11.0
March-96	NT	94.0 *	11.3	14.7	11.9	10.7
August-96	NT	6.2 *	5.6 *	13.8	16.8	14.7
October-96	4.3 *	12.3	11.3	8.5	3.5	36.6

Table 23. Summary of selenium concentrations in grab water samples collected at study sites for use in laboratory toxicity tests, December 1995 to October 1996.

See Table 24 for explanation of footnotes and agency abbreviations.

PARAMETER	Station B	Station C	Station D	Station F	Delta Mendota Canal
DATA SOURCE	SLDMWA/USBR	SLDMWA/USBR	SLDMWA/USBR	SLDMWA/USBR	SLDMWA/USBR
UNITS	µg/L	µg/L	µg/L	µg/L	µg/L
December 11, 1995	NT	1	1	12	1 ^{<}
December 12, 1995	NT	1 ^{<}	1 ^{<}	14	1 ^{<}
December 15, 1995	NT	1 ^{<}	1 ^{<}	12	1 ^{<}
March 18, 1996	NT	1 ^{<}	1 ^{<}	17	1 ^{<}
March 21, 1996	NT	1 ^{<}	1 ^{<}	16	1 ^{<}
March 23, 1996	NT	1 ^{<}	1 ^{<}	18	1 ^{<}
March 27, 1996	NT	1	1 ^{<}	19	1 ^{<}
August 6, 1996	NT	3	2	13	1 ^{<}
August 8, 1996	NT	1 ^{<}	1	13	1 ^{<}
August 10, 1996	NT	2	2	11	1 ^{<}
August 13, 1996	NT	NT	NT	NT	NT
October 1996 #1	P	P	P	P	P
October 1996 #2	P	P	P	P	P
October 1996 #3	P	P	P	P	P
October 1996 #4	P	P	P	P	P

Table 24. Explanations of footnotes and agency abbreviations.

Footnote	Explanation
USBR	U.S. Bureau of Reclamation
e	estimated value
b	value based on partial reading
CVRWQCB	California Regional Water Quality Control Board, Central Valley Region
NP	data not provided - future unknown
NA	not analyzed - operator error, data will not be available in the future
est 5	estimated value determined by using method for 5 missing values
P	pending, data not available at this time but will be available in the future
USGS	U.S. Geological Survey
*	Significantly different from Delta Mendota Canal (p<0.05)
(1)	This test used <i>Ceriodaphnia dubia</i> in water with high hardness. Results were compared to hard water and moderately hard water for definitive bioassays. All treatment means were significantly different from the laboratory control (hard water) for definitive tests.
SLDMWA	San Luis & Delta-Mendota Water Authority
NT	no sample collected
<	less than