APPENDIX C

EASTSIDE BASIN

APPENDIX C: EASTSIDE BASIN

C1: 535MER546 – Merced River @ River Road

Station Code: 541MER546

Location: Latitude 37.84972, Longitude -120.95778

Date	Time	Temp (ºC)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
11/30/2000	10:10 AM	10.1	93	8.2		
12/28/2000	11:50 AM	9.7	155	8.7		
1/25/2001	1:50 PM	10.2	129	8.2		
2/22/2001	1:27 PM	15.8	173	9.2		
3/29/2001	12:00 PM	19.7	155	8.2		
4/26/2001	8:57 AM	17.7	74	7.1		
5/30/2001	1:50 PM	26.4	170	7.9		
6/27/2001	12:45 PM	23.8	292	8.4	8.4	
7/25/2001	1:05 PM	26.7	346	7.9	9.7	
8/29/2001	1:39 PM	26.6	396	7.9	9.6	
9/26/2001	12:20 PM	21.9	233	7.9	9.8	
10/24/2001	1:46 PM	15.8	41	7.9	9.6	
11/28/2001	12:14 PM	11.0	90	8.6	10.7	
12/26/2001	12:05 PM	10.7	107	7.7	10.7	
1/30/2002	12:44 PM	8.4	162	7.8	12.2	
2/27/2002	11:38 AM	15.3	191	7.8	9.6	
3/27/2002	11:12 AM	16.5	166	7.9	9.2	
4/30/2002	12:08 PM	16.2	115	8.5	11.6	
5/29/2002	12:13 PM	24.3	197	8.1	8.3	
6/19/2002	11:52 AM	25.1	262	7.8	8.1	
7/30/2002	8:45 AM	23.1	310	8.1	7.1	9.3
8/28/2002	1:30 PM	26.8	302	8.5	NA	
9/25/2002	1:48 PM	24.5	359	7.8	10.0	
10/30/2002	NA	14.9	97	7.8	9.8	
11/20/2002	12:19 PM	13.5	129	8.1	10.4	
12/18/2002	11:42 AM	10.9	115	7.7	9.9	45.3
1/29/2003	12:25 PM	13.2	177	7.8	10.6	25.0
3/25/2003	10:44 AM	16.8	135	8.0	10.2	15.9
7/31/2003	10:58 AM	24.3	416	7.6	8.3	5.6
8/28/2003	10:41 AM	22.5	409	7.7	8.3	6.3
9/25/2003	11:31 AM	21.5	358	7.8	8.7	4.3
10/30/2003	10:09 AM	15.7	118	7.8	9.6	4.3
11/20/2003	10:35 AM	13.1	124	8.2	10.9	NA
1/29/2004	11:07 AM	10.7	131	8.3	11.6	NA
2/26/2004	10:45 AM	12.3	124	7.9	10.1	NA
3/24/2004	11:42 AM	19.0	143	7.6	8.9	NA
4/29/2004	11:34 AM	17.5	60	7.9	9.0	9.6
5/27/2004	11:43 AM	23.0	172	7.5	8.0	14.1

C1: 535MER546 – Merced River @ River Road continued …

Date	Time	Temp (ºC)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
6/24/2004	11:40 AM	24.6	243	7.7	8.0	NA
7/29/2004	10:53 AM	24.3	454	7.9	11.1	NA
8/26/2004	11:28 AM	23.9	404	7.8	8.5	NA
9/30/2004	10:44 AM	19.1	395	7.7	9.5	NA
10/28/2004	11:19 AM	13.5	95	8.1	10.0	
11/23/2004	11:34 AM	10.9	177	7.6	11.5	
12/29/2004	10:46 AM	9.6	116	7.7	11.5	
1/27/2005	12:53 PM	11.4	168	7.6	12.0	
2/24/2005	11:02 AM	13.8	156	7.6	8.8	
3/29/2005	12:56 PM	11.8	70	7.6	10.4	
4/28/2005	11:18 AM	13.7	66	8.0	10.2	
5/26/2005	12:18 PM	15.8	48	7.6	9.6	
6/30/2005	11:54 AM	19.7	71	7.3	8.5	
7/28/2005	11:21 AM	23.3	96	7.3	6.7	
8/25/2005	11:46 AM	20.2	49	7.6	8.7	
9/29/2005	11:45 AM	18.3	57	6.9	7.2	
Count		54	54	54	46	10
Min		8.4	41	6.9	6.7	4.3
Max		26.8	454	9.2	12.2	45.3
Mean		17.6	183	7.9	9.6	14.0
Geo Mean		16.7	152	7.9	9.5	10.4
Median		16.7	155	7.8	9.6	9.5
Quartile 1		13.1	100	7.7	8.6	5.8
Quartile 3		23.1	241	8.1	10.4	15.5

NOTE: For values reported as < (less than), half the detection limit was used.

NA = Data not applicable
INA = Site was inaccessible
DRY = Site had no flow

C1: 535MER546 – Merced River @ River Road continued …

Date	TSS (mg/L)	TOC (mg/L)	Total Coli MPN	*E. coli* MPN
11/30/2000	<6	1.6		
12/28/2000	NA	2.0		
1/25/2001	<5	1.9		
2/22/2001	14	2.5		
3/29/2001	NA	<1		
4/26/2001		2.8		
5/30/2001	<6	2.7		
6/27/2001	<6	6.2		
7/25/2001		2.5		
8/29/2001	NA	9.3		
9/26/2001	NA	6.2		
11/28/2001		NA		
12/26/2001		2.2		
3/27/2002		NA		
4/30/2002		NA		
5/29/2002		1.9		
6/19/2002		NA		
7/30/2002			>2419.6	411
8/28/2002		NA		
9/25/2002		NA		
10/30/2002		1.6		
11/20/2002		1.8		
12/18/2002		4.1		
7/31/2003			>2419.6	138
8/28/2003			>2419.6	461
9/25/2003			>2419.6	115
10/30/2003			NA	NA
11/20/2003			1120	31
1/29/2004			344	19
2/26/2004			2420	83
3/24/2004			>2419.6	45
4/29/2004			>2419.6	93
5/27/2004			>2419.6	179
6/24/2004			>2419.6	387
7/29/2004			>2419.6	1986
8/26/2004			>2419.6	121
9/30/2004			>2419.6	113
10/28/2004		1.6	>2419.6	81
11/23/2004		1.8	816	25
12/29/2004		1.5	1733	50
1/27/2005		3.2	2420	25

C1: 535MER546 – Merced River @ River Road continued …

Date	TSS (mg/L)	TOC (mg/L)	Total Coli MPN	*E. coli* MPN
2/24/2005		5.0	921	308
3/29/2005		3.5	>2419.6	613
4/28/2005		2.4	1986	86
5/26/2005		2.6	>2419.6	80
6/30/2005		NA	>2419.6	70
7/28/2005		NA	>2419.6	93
8/25/2005		2.0	>2419.6	99
9/29/2005		2.2	>2419.6	488
Count	5	26	26	26
Min	3	0.5	344	19
Max	14	9.3	2420	1986
Mean	5	2.9	NA	NA
Geo Mean	4	2.5	1973	120
Median	3	2.3	2420	96
Quartile 1	3	1.8	2420	73
Quartile 3	3	3.1	2420	276

NOTE: For values reported as < (less than), half the detection limit was used
For values reported as > (greater than), 2420 was used

NA = Data not applicable
INA = Site was inaccessible
DRY = Site had no flow

C1: 535MER546 – Merced River @ River Road continued …

Date	Nitrate (mg/L)	Nitrate-N (mg/L)	TKN (mg/L)	Ammonia-N (mg/L)	Phosphorus (mg/L)	Ortho-phosphate-P (mg/L)	Potassium (mg/L)	BOD 5-Day (mg/L)	BOD 10-Day (mg/L)
11/30/2000	4.9		<2		<0.1	<1	<1	0.3	0.6
12/28/2000	7.6		<2		<0.1	<1	1.3	0.2	0.3
1/25/2001	NA		NA		<0.1	<1	1.3	0.7	0.9
2/22/2001	8.1		2.4		NA	<1	1.7	0.4	0.6
3/29/2001	6.3		NA		<0.1	<1	1.7	0.6	1.1
4/26/2001	2.0		<2		NA	<1	<1	0.5	1.1
5/30/2001	7.0		<2		NA	<1	1.6	0.6	0.7
6/27/2001	11		<2		<0.1	<1	2.5	0.6	0.8
8/29/2001	15		<2		<0.1	<1	NA		
9/26/2001	13		<2		<0.1	<1	1.9		
10/24/2001	<2		<2		<0.1	<1	<1	0.5	0.7
11/28/2001								0.2	0.5
12/26/2001								0.3	0.7
1/30/2002								0.1	0.5
2/27/2002								0.4	0.7
3/27/2002								1.6	3.8
4/30/2002								0.5	0.9
5/29/2002								0.4	0.4
6/19/2002								0.7	0.8
8/28/2002								0.1	0.6
9/25/2002								0.6	0.9
10/30/2002								0.3	0.3
11/20/2002									
12/18/2002								3.3	7.3
1/29/2003								0.4	0.6

C1: 535MER546 – Merced River @ River Road continued …

Date	Nitrate (mg/L)	Nitrate-N (mg/L)	TKN (mg/L)	Ammonia-N (mg/L)	Phosphorus (mg/L)	Ortho-phosphate-P (mg/L)	Potassium (mg/L)	BOD 5-Day (mg/L)	BOD 10-Day (mg/L)
Count	10	NA	9	NA	8	11	10	22	22
Min	1.0	NA	1.0	NA	0.05	0.5	0.5	0.1	0.3
Max	15	NA	2.4	NA	0.05	0.5	2.5	3.3	7.3
Mean	7.6	NA	1.2	NA	0.05	0.5	1.4	0.6	1.1
Geo Mean	6.0	NA	1.1	NA	0.05	0.5	1.2	0.4	0.8
Median	7.3	NA	1.0	NA	0.05	0.5	1.5	0.5	0.7
Quartile 1	5.3	NA	1.0	NA	0.05	0.5	0.7	0.3	0.6
Quartile 3	10.3	NA	1.0	NA	0.05	0.5	1.7	0.6	0.9

NOTE: For values reported as < (less than), half the detection limit was used.

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C1: 535MER546 – Merced River @ River Road continued …

Date	Hardness (mg/L)	Total Arsenic (ug/L)	Total Cadmium (ug/L)	Total Chromium (ug/L)	Total Copper (ug/L)	Total Lead (ug/L)	Total Nickel (ug/L)	Total Zinc (ug/L)	Total Mercury (ug/L)
11/30/2000	29			<1	<1	<5	<5	7.8	
12/28/2000	46			<1	1.3	<5	<5	<2	
1/25/2001	40			<1	1.7	<5	<5	2.5	
2/22/2001	55			<1	2.1	<5	<5	<2	
3/29/2001	48			<1	1.7	<5	<5	2.5	
4/26/2001	26			<1	1.8	<5	<5	2.2	
5/30/2001	50			<1	<1	<5	<5	<2	
7/25/2001				<1	1.2	<5	<5	<2	
8/29/2001	NA	<2	<1	<1	<1	<5	<5	<2	
9/26/2001	67	<4	<0.1	<1	1.4	<5	<5	<2	<0.2
10/24/2001	15	<4.0	<0.1	<1.0	<1.0	<5.0	<5.0	<2.0	<0.2
11/28/2001	28	<4.0	<0.1	<1.0	<1.0	<5.0	<5.0	3.7	<0.2
12/26/2001		<4	<0.1	<1	1.5	<5	<5	3.4	<0.2
1/30/2002		<4	<0.1	<1	<1	<5	<5	<2	<0.2
3/27/2002		<4.0	<0.1	<1.0	5.0	<5.0	<5.0	10	<0.2
4/30/2002		<4.0	<0.1	<1.0	1.2	<5.0	<5.0	<2.0	<0.2
5/29/2002		<4.0	<0.1	<1.0	NA	<5.0	<5.0	<2.0	<0.2
6/19/2002		<4.0	<0.1	<1.0	1.0	<5.0	<5.0	<2.0	<0.2
9/25/2002	98	<4.0	<0.1	<1.0	NA	<5.0	<5.0	<2.0	<0.2
10/30/2002	27	<4.0	<0.1	<1.0	NA	<5.0	<5.0	<2.0	<0.2
11/20/2002	41	<4.0	<0.1	<1.0	1.3	<5.0	NA	NA	<0.2
Count	13	13	13	21	18	21	20	20	12
Min	15	1.0	0.1	0.5	0.5	2.5	2.5	1.0	0.1
Max	98	2.0	0.5	0.5	5.0	2.5	2.5	10.0	0.1
Mean	44	1.9	0.1	0.5	1.3	2.5	2.5	2.3	0.1
Geo Mean	39	1.9	0.1	0.5	1.1	2.5	2.5	1.6	0.1
Median	41	2.0	0.1	0.5	1.3	2.5	2.5	1.0	0.1
Quartile 1	28	2.0	0.1	0.5	0.5	2.5	2.5	1.0	0.1
Quartile 3	50	2.0	0.1	0.5	1.7	2.5	2.5	2.5	0.1

NOTE: For values reported as < (less than), half the detection limit was used.

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C1: 535MER546 – Merced River @ River Road continued …

Date	Hardness (mg/L)	Dissolved Arsenic (ug/L)	Dissolved Cadmium (ug/L)	Dissolved Chromium (ug/L)	Dissolved Copper (ug/L)	Dissolved Lead (ug/L)	Dissolved Nickel (ug/L)	Dissolved Zinc (ug/L)	Dissolved Mercury (ug/L)
11/30/2000	29			<1	<1	<5	<5	<2	
12/28/2000	46			<1	<1	<5	<5	<2	
1/25/2001	40			<1	<1	<5	<5	<2	
2/22/2001	55			<1	<1	<5	<5	2.4	
3/29/2001	48			<1	1.3	<5	<5	<2	
4/26/2001	26			<1	<1	<5	<5	2.4	
5/30/2001	50			<1	<1	<5	<5	4.0	
7/25/2001									
8/29/2001	NA	<2	<1	<1	<1	<5	<5	<2	
9/26/2001	67	<4	<0.1	<1	1.4	<5	<5	2.9	<0.2
10/24/2001	15	<4.0	<0.1	<1.0	<1.0	<5.0	<5.0	<2.0	<0.2
11/28/2001	28	<4.0	<0.1	<1.0	<1.0	<5.0	<5.0	NA	<0.2
12/26/2001		<4	<0.1	<1	1.0	<5	<5	4.5	<0.2
1/30/2002		<4	<0.1	<1	<1	<5	<5	<2	<0.2
3/27/2002		<4.0	<0.1	<1.0	2.0	<5.0	<5.0	5.5	<0.2
4/30/2002		<4.0	<0.1	<1.0	<1.0	<5.0	<5.0	<2.0	<0.2
5/29/2002		<4.0	<0.1	<1.0	<1.0	<5.0	<5.0	<2.0	<0.2
6/19/2002		<4.0	<0.1	<1.0	<1.0	<5.0	<5.0	<2.0	<0.2
9/25/2002	98	<4.0	<0.1	<1.0	NA	<5.0	<5.0	<2.0	<0.2
10/30/2002	27	<4.0	<0.1	<1.0	1.2	<5.0	<5.0	<2.0	<0.2
11/20/2002	41	<4.0	<0.1	<1.0	1.1	<5.0	<5.0	<2.0	<0.2
Count	13	13	13	20	19	20	20	19	12
Min	15	1.0	0.1	0.5	0.5	2.5	2.5	1.0	0.1
Max	98	2.0	0.5	0.5	2.0	2.5	2.5	5.5	0.1
Mean	44	1.9	0.1	0.5	0.8	2.5	2.5	1.8	0.1
Geo Mean	39	1.9	0.1	0.5	0.7	2.5	2.5	1.5	0.1
Median	41	2.0	0.1	0.5	0.5	2.5	2.5	1.0	0.1
Quartile 1	28	2.0	0.1	0.5	0.5	2.5	2.5	1.0	0.1
Quartile 3	50	2.0	0.1	0.5	1.1	2.5	2.5	2.4	0.1

NOTE: For values reported as < (less than), half the detection limit was used.

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C1: 535MER546 – Merced River @ River Road continued …

Date	Chloride (mg/L)	Sulfate (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	TDS (mg/L)	Carbonate (mg/L)	Bicarbonate (mg/L)	Total Alkalinity (mg/L)	Sodium (mg/L)
11/30/2000	6	4	8	3	99	<1	30	30	6
12/28/2000	11	9	12	4	76	<1	50	40	12
1/25/2001	8	8	10	4	57	<1	50	40	9
2/22/2001	11	11	14	5	130	<1	60	49	13
3/29/2001	9	9	12	4	110	<1	67	55	10
4/26/2001	4	4	7	2	65	<1	26	26	5
5/30/2001	12	10	13	4	NA	<1	44	44	13
6/27/2001	26	17	20	7	140	<1	87	72	25
8/29/2001	35	NA	NA	NA	220	<1.0	120	96	35
9/26/2001	NA	NA	17	6	NA	<1	72	59	20
10/24/2001	3	3	4	1	59	<1	18	15	3
11/28/2001	5	5	7	2	59	<1	33	27	6
Count	11	10	11	11	10	12	12	12	12
Min	3	3	4	1	57	0.5	18	15	3
Max	35	17	20	7	220	0.5	120	96	35
Mean	12	8	11	4	100	0.5	55	46	13
Geo Mean	9	7	10	3	92	0.5	48	41	10
Median	9	9	12	4	88	0.5	50	42	11
Quartile 1	6	4	8	3	61	0.5	32	29	6
Quartile 3	12	10	14	5	130	0.5	68	56	15

NOTE: For values reported as < (less than), half the detection limit was used.

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C1: 535MER546 – Merced River @ River Road continued …

Date	96h Acute Fathead Minnow (% Survival)		48h Acute Ceriodaphnia Dubia (% Survival)		Algae Cell Growth		
	Result	Control	Result	Control	Result (million/ml)	Control (million/ml)	MDD(%)
10/26/2000	100	100	NA	NA			
10/24/2001	100	100	100	100			
11/28/2001	NA	NA	100	100			
12/26/2001	100	100	100	100			
1/30/2002	100	100	90	90			
2/27/2002	100	100	100	100			
4/30/2002	100	100	100	100			
5/29/2002	100	100	100	100			
6/19/2002	100	100	100	100			
8/28/2002	90	100	NA	NA			
9/25/2002	100	100	100	100			
10/30/2002	100	100	100	100			
11/20/2002	100	100	100	100			
12/18/2002	95	90	100	100	3.35	3.03	NA
1/29/2003	95	100	100	100	4.86**	3.28	NA
4/17/2003	100	100	100	100	1.73	1.84	4
5/22/2003	85	100	100	100	4.24**	2.08	59
Count	16	16	15	15	4	4	2

* Significantly reduced from the lab control.
** Significantly greater than the lab control.
^ Fish were from a "forced hatch," duplicate failed QA.
[1] Duplicate sample for the set was low - 77% recovery.
[2] Testing for the Fathead minnow was initiated when samples were approx. 48h old due to untimely shipping of fish by fish supplier.
[3] Samples qualified, but duplicate sample recovery for the set was high - 126% (53.8%/42.5%)
NA = Data not applicable
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C1: 535MER546 – Merced River @ River Road continued …

	Chronic Fathead Minnow - 7day					Chronic Ceriodaphnia Dubia - 6 day				
Date	Result (% Survival)	Control (% Survival)	Avg Dry Weight Result (mg)	Avg Dry Weight Control (mg)	Growth MDD(%)	Result (% Survival)	Control (% Survival)	Avg # Young / Adult Result	Avg # Young / Adult Control	Repro MDD(%)
11/23/2004	90.0	95.0	0.22*	0.29	24					
12/29/2004	97.4	97.5	0.63	0.54	12					
01/27/2005 [1]	97.5	100.0	0.48	0.53	20					
2/24/2005	100.0	100.0	0.67	0.57	13					
03/29/2005 [2]	62.5*	100.0	0.31	0.42	42					
4/28/2005	N/A	N/A	N/A	N/A	N/A					
5/26/2005	65.0*	97.5	0.30*	0.51	8.9					
6/30/2005	92.5	97.5	0.42	0.45	11					
7/28/2005	N/A	N/A	N/A	N/A	N/A					
8/25/2005	87.2*	100.0	.47*	0.63	21					
9/29/2005	89.7	100.0	0.41	0.43	24					
Count	9	9	9	9	9	N/A	N/A	N/A	N/A	N/A

* Significantly reduced from the lab control.
** Significantly greater than the lab control.
^ Fish were from a "forced hatch," duplicate failed QA.
[1] Duplicate sample for the set was low - 77% recovery.
[2] Testing for the Fathead minnow was initiated when samples were approx. 48h old due to untimely shipping of fish by fish supplier.
[3] Samples qualified, but duplicate sample recovery for the set was high - 126% (53.8%/42.5%)
NA = Data not applicable
INA = Site was inaccessible
DRY = Site had no flow

C2: 535MER576 – Turner Slough at Fourth Ave

Station Code: 535MER576

Location: Latitude 37.32056, Longitude -120.88917

Date	Time	Temp (ºC)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
4/26/2001	8:20 AM	20.5	158	6.4		
5/31/2001	8:25 AM	24.1	175	7.9		
6/28/2001	1:06 PM	26.7	232	8.0	7.6	
7/26/2001	2:40 PM	29.6	238	8.1	NA	
8/30/2001	NA	26.9	196	8.5	NA	
9/27/2001	12:23 PM	23.2	212	8.3	9.5	
10/25/2001	12:04 PM	16.7	301	8.0	11.5	
11/29/2001	9:01 AM	7.9	189	8.0	10.7	
12/27/2001	12:44 PM	9.6	313	7.7	10.0	
1/31/2002	12:10 PM	5.0	342	9.1	13.3	
2/28/2002	2:43 PM	14.5	339	8.3	12.3	
3/28/2002	1:37 PM	20.4	307	8.5	11.3	
4/24/2002	11:54 AM	19.0	192	7.9	7.5	
5/30/2002	12:12 PM	26.2	166	7.8	8.3	
6/20/2002	INA	INA	INA	INA	INA	INA
7/30/2002	11:28 AM	24.2	230	7.4	5.4	97.9
8/29/2002	12:05 PM	23.3	225	7.5	6.2	127
9/26/2002	12:08 PM	21.4	203	7.7	6.4	
10/17/2002	12:42 PM	16.7	238	8.2	8.6	91.7
10/31/2002	12:20 PM	12.9	194	8.6	11.3	107
11/21/2002	11:55 AM	11.8	253	7.7	6.2	142
12/19/2002	12:11 PM	7.2	234	7.9	10.7	182
1/14/2003	11:06 AM	11.5	300	7.6	7.7	184
1/30/2003	11:51 AM	11.9	474	7.7	12.1	132
3/27/2003	2:12 PM	17.5	385	8.3	13.2	102
4/24/2003	12:00 PM	17.7	175	7.6	6.5	113
5/29/2003	11:02 AM	24.5	145	7.4	6.6	89.4
6/26/2003	10:44 AM	24.0	185	7.4	3.2	83.9
7/31/2003	11:27 AM	25.3	351	7.2	4.1	165
8/28/2003	11:13 AM	22.9	290	7.4	5.2	77.8
9/25/2003	11:25 AM	20.7	212	7.2	5.0	515
10/30/2003	11:22 AM	14.0	185	7.1	3.3	97.7
11/20/2003	11:48 AM	9.7	203	7.1	6.1	290
1/29/2004	11:09 AM	DRY	DRY	DRY	DRY	DRY
2/26/2004	11:10 AM	11.7	251	7.6	8.2	NA
3/24/2004	11:24 AM	DRY	DRY	DRY	DRY	DRY
4/29/2004	11:10 AM	17.3	375	7.7	6.0	62.4

C2: 535MER576 – Turner Slough at Fourth Ave continued…

Date	Time	Temp (ºC)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
5/27/2004	11:23 AM	22.7	139	7.4	5.6	117
6/24/2004	11:14 AM	25.1	184	7.7	8.2	NA
7/29/2004	10:36 AM	23.2	468	7.7	6.8	NA
8/26/2004	11:08 AM	24.7	232	8.0	7.0	NA
9/30/2004	10:29 AM	19.0	254	7.8	7.9	NA
10/28/2004	11:01 AM	12.5	68	8.1	9.7	
11/23/2004	11:10 AM	7.1	181	7.6	10.2	
12/29/2004	10:27 AM	9.1	154	7.6	4.5	
1/27/2005	12:10 PM	10.4	216	7.8	12.0	
2/24/2005	10:37 AM	14.1	284	7.8	9.3	
3/29/2005	12:29 PM	15.8	186	7.5	8.7	
4/28/2005	10:56 AM	19.3	154	8.1	9.1	
5/26/2005	11:52 AM	24.3	140	7.5	6.7	
6/30/2005	11:29 AM	27.8	148	7.2	6.1	
7/28/2005	11:00 AM	27.7	161	7.7	8.8	
8/25/2005	11:14 AM	24.9	142	7.6	7.8	
9/29/2005	11:18 AM	21.4	140	6.8	7.4	
Count		51	51	51	47	19
Min		5.0	68	6.4	3.2	62.4
Max		29.6	474	9.1	13.3	515
Mean		18.5	230	7.7	8.1	146
Geo Mean		17.2	216	7.7	7.7	127
Median		19.3	212	7.7	7.8	113
Quartile 1		12.7	175	7.5	6.2	94.7
Quartile 3		24.2	269	8.0	9.9	154

NOTE: For values reported as < (less than), half the detection limit was used.

NA = Data not applicable
INA = Site was inaccessible
DRY = Site had no flow

C2: 535MER576 – Turner Slough at Fourth Ave continued…

Date	TSS (mg/L)	TOC (mg/L)	Total Coli MPN	*E. coli* MPN
12/28/2000	NA	53		
1/25/2001	30	37		
2/22/2001	40	31		
3/29/2001	NA	20		
4/26/2001		5.4		
5/31/2001	88	5.9		
6/28/2001	61	7.9		
7/26/2001		6.5		
8/30/2001	30	7		
9/27/2001	28			
10/25/2001		9.6		
11/29/2001		<1		
1/31/2002		7		
3/28/2002		NA		
4/24/2002		12		
5/30/2002		4.1		
6/20/2002		INA		
7/30/2002			>2419.6	548
9/26/2002		5.8		
10/17/2002			>2419.6	>2419.6
10/31/2002		NA		
11/21/2002		4.1		
1/14/2003			>2419.6	866
3/27/2003		6		
4/24/2003		NA	>2419.6	649
5/29/2003		12		
6/26/2003		4.8		
7/31/2003			>2419.6	260
8/28/2003			>2419.6	816
9/25/2003			>2419.6	166
10/30/2003			>2419.6	>2419.6
11/20/2003			>2419.6	1733
1/29/2004			DRY	DRY
2/26/2004			>2419.6	>2419.6
3/24/2004			DRY	DRY
4/29/2004			>2419.6	687
5/27/2004			>2419.6	980
6/24/2004			>2419.6	1733
7/29/2004			>2419.6	816
8/26/2004			>2419.6	435
9/30/2004			>2419.6	186
10/28/2004		7.6	>2419.6	411

C2: 535MER576 – Turner Slough at Fourth Ave continued…

Date	TSS (mg/L)	TOC (mg/L)	Total Coli MPN	*E. coli* MPN
11/23/2004		16	>2419.6	291
12/29/2004		7.8	>2419.6	770
1/27/2005		13	>2419.6	162
2/24/2005		13	1414	115
3/29/2005		15	>2419.6	727
4/28/2005		6.4	>2419.6	>2419.6
5/26/2005		8.1	>2419.6	1553
6/30/2005		NA	>2419.6	457
7/28/2005		NA	>2419.6	1300
8/25/2005		4.2	>2419.6	816
9/29/2005		3.3	>2419.6	146
Count	6	29	28	28
Min	28	0.5	1414	115
Max	88	53	2420	2420
Mean	46	12	NA	NA
Geo Mean	42	8.2	2374	654
Median	35	7.6	2420	749
Quartile 1	30	5.8	2420	381
Quartile 3	56	13	2420	1363

NOTE: For values reported as < (less than), half the detection limit was used
For values reported as > (greater than), 2420 was used

NA = Data not applicable
INA = Site was inaccessible
DRY = Site had no flow

C2: 535MER576 – Turner Slough at Fourth Ave continued…

Date	Nitrate (mg/L)	Nitrate-N (mg/L)	TKN (mg/L)	Ammonia-N (mg/L)	Phosphorus (mg/L)	Ortho-phosphate-P (mg/L)	Potassium (mg/L)	BOD 5-Day (mg/L)	BOD 10-Day (mg/L)
12/28/2000	<2		32		0.3	11.0	100	7.7	16.0
1/25/2001	NA		NA		5.9	4.7	68	8.3	16.4
2/22/2001	3.9		9.2		NA	2.9	56	8.7	17.2
3/29/2001	<2		NA		12.0	5.1	66	7.7	15.9
4/26/2001	4.2		<2		0.2	<1	3.9	2.1	3.8
5/31/2001	3.9		<2		0.2	<1	4.0	2.9	5.1
6/28/2001	5.7		<2		0.2	<1	4.3	2.3	4.4
8/30/2001	5.0		<2		0.2	<1	3.0		
9/27/2001	9.9		<2		<0.1	<1	2.7		
10/25/2001	9.4		<2		0.2	<1	6.0		
11/29/2001	NA		NA		NA	0.1	NA	3.4	5.2
12/27/2001	NA		NA		0.3	0.1	3.6	2.8	4.8
1/31/2002	NA		1.3		0.2	0.1	NA	3.1	5.2
2/28/2002	NA		NA		0.2	NA	5.5	4.9	7.9
3/28/2002	NA		1.1		0.4	0.3	5.6	2.8	4.8
4/24/2002	NA		NA		0.3	0.2	4.0	6.3	10.0
5/30/2002	NA		NA		NA	0.2	3.3	3.6	6.1
6/20/2002	INA		INA		INA	INA	INA		
8/29/2002	NA		0.8		NA	0.1	3.1	2.3	3.6
9/26/2002	NA		0.9		0.2	0.1	4.2	3.5	5.1
10/31/2002	NA		1.0		0.1	<0.03	2.4	7.5	11.4
11/21/2002	NA		0.8		0.1	0.1	5.0	4.1	6.1
12/19/2002	NA		1.6		0.2	0.1	4.4	5.0	6.9
1/30/2003	NA		2.0		NA	0.1	3.4	8.6	17.0

C2: 535MER576 – Turner Slough at Fourth Ave continued…

Date	Nitrate (mg/L)	Nitrate-N (mg/L)	TKN (mg/L)	Ammonia-N (mg/L)	Phosphorus (mg/L)	Ortho-phosphate-P (mg/L)	Potassium (mg/L)	BOD 5-Day (mg/L)	BOD 10-Day (mg/L)
Count	9	NA	16	NA	18	22	21	20	20
Min	1.0	NA	0.8	NA	0.1	0.02	2.4	2.1	3.6
Max	9.9	NA	32	NA	12.0	11.0	100	8.7	17.2
Mean	4.9	NA	3.5	NA	1.2	1.3	17	4.9	8.6
Geo Mean	3.8	NA	1.5	NA	0.3	0.3	6.8	4.3	7.4
Median	4.2	NA	1.0	NA	0.2	0.3	4.2	3.9	6.1
Quartile 1	3.9	NA	1.0	NA	0.2	0.1	3.4	2.9	5.0
Quartile 3	5.7	NA	1.4	NA	0.3	0.5	5.6	7.6	12.5

NOTE: For values reported as < (less than), half the detection limit was used.

NA = Data not applicable
INA = Site was inaccessible
DRY = Site had no flow

C2: 535MER576 – Turner Slough at Fourth Ave continued…

Date	Hardness (mg/L)	Total Arsenic (ug/L)	Total Cadmium (ug/L)	Total Chromium (ug/L)	Total Copper (ug/L)	Total Lead (ug/L)	Total Nickel (ug/L)	Total Zinc (ug/L)	Total Mercury (ug/L)
12/28/2000	190			<1	5.9	<5	5.5	20	
1/25/2001	140			<1	6.2	<5	<5	12	
2/22/2001	160			<1	4.2	<5	<5	10	
3/29/2001	130			1.1	3.3	<5	<5	16	
4/26/2001	55			1.4	5.1	<5	<5	4.9	
5/31/2001	60			5.4	7.4	<5	5.2	11	
6/28/2001	74	2.6	<1	4.1	6.1	<5	<5	9.1	<0.2
7/26/2001		NA	NA	4.6	4.9	<5	<5	NA	NA
8/30/2001	64	<2	<1	2.1	3.1	<5	<5	5.5	
9/27/2001	65	<4	<0.1	2.1	4	<5	<5	4.5	<0.2
10/25/2001	97	<4	<0.1	<1	1.9	<5	<5	<2	NA
11/29/2001	59	5.1	<0.1	5.2	5.8	<5	<5	12	<0.2
12/27/2001	86	4.5	<0.1	7.8	10	<5	6.8	16	<0.2
2/28/2002	85	<4.0	<0.1	2.4	5.1	<5.0	<5.0	9	<0.2
3/28/2002	87	<4.0	<0.1	3.6	5.1	<5.0	NA	14	<0.2
4/24/2002	66	<4.0	<0.1	<1.0	2.2	<5.0	<5.0	<2.0	<0.2
5/30/2002	58	<4.0	<0.1	2.6	5.6	<5.0	<5.0	6.2	<0.2
6/20/2002		INA	INA	INA	INA	INA	INA	INA	INA
9/26/2002	72	<4.0	<0.1	6.1	8.1	<5.0	5.9	15	<0.2
10/31/2002	63	<4.0	<0.1	4.6	6.1	<5.0	<5.0	9.3	<0.2
11/21/2002	84	<4.0	<0.1	9.0	12	<5.0	7.4	19	<0.2
3/27/2003	94	4.3	<0.1	6.3	7.5	<5.0	5.7	13	<0.2
4/24/2003	67	<4.0	<0.1	5.7	7.8	<5.0	5.4	11	<0.2
5/29/2003	49	<4.0	<0.1	3.7	6.9	<5.0	<5.0	9.9	<0.2
6/26/2003	51	<4.0	<0.1	3.7	4.9	<5.0	<5.0	8.9	NA

C2: 535MER576 – Turner Slough at Fourth Ave continued…

Date	Hardness (mg/L)	Total Arsenic (ug/L)	Total Cadmium (ug/L)	Total Chromium (ug/L)	Total Copper (ug/L)	Total Lead (ug/L)	Total Nickel (ug/L)	Total Zinc (ug/L)	Total Mercury (ug/L)
Count	23	17	17	24	24	24	23	23	14
Min	49	1.0	0.1	0.5	1.9	2.5	2.5	1.0	0.1
Max	190	5.1	0.5	9.0	12	2.5	7.4	20.0	0.1
Mean	85	2.4	0.1	3.5	5.8	2.5	3.6	10.4	0.1
Geo Mean	79	2.3	0.1	2.5	5.3	2.5	3.3	8.5	0.1
Median	72	2.0	0.1	3.7	5.7	2.5	2.5	10.0	0.1
Quartile 1	62	2.0	0.1	1.3	4.7	2.5	2.5	7.6	0.1
Quartile 3	91	2.0	0.1	5.3	7.0	2.5	5.3	13.5	0.1

NOTE: For values reported as < (less than), half the detection limit was used.

NA = Data not applicable
INA = Site was inaccessible
DRY = Site had no flow

C2: 535MER576 – Turner Slough at Fourth Ave continued…

Date	Hardness (mg/L)	Dissolved Arsenic (ug/L)	Dissolved Cadmium (ug/L)	Dissolved Chromium (ug/L)	Dissolved Copper (ug/L)	Dissolved Lead (ug/L)	Dissolved Nickel (ug/L)	Dissolved Zinc (ug/L)	Dissolved Mercury (ug/L)
12/28/2000	190			<1	2.5	<5	5.1	9.4	
1/25/2001	140			<1	3.4	<5	5.1	7.0	
2/22/2001	160			<1	2.3	<5	<5	5.6	
3/29/2001	130			<1	2.6	<5	<5	12	
4/26/2001	55			<1	2.2	<5	<5	3.7	
5/31/2001	60			<1	1.9	<5	<5	<2	
6/28/2001	74	<2	<1	<1	<1	<5	<5	2.1	<0.2
7/26/2001		NA	NA	NA	NA	NA	NA	NA	NA
8/30/2001	64	<2	<1	<1	1.2	<5	<5	<2	
9/27/2001	65	<4	<0.1	<1	1.6	<5	<5	<2	<0.2
10/25/2001	97	<4	<0.1	<1	1.8	<5	<5	<2	NA
11/29/2001	59	<4	<0.1	<1	1.8	<5	<5	5.1	<0.2
12/27/2001	86	<4	<0.1	<1	2.5	<5	<5	2.9	<0.2
2/28/2002	85	<4.0	<0.1	<1.0	3.1	<5.0	<5.0	5.5	<0.2
3/28/2002	87	<4.0	<0.1	<1.0	2.5	<5.0	<5.0	7.6	<0.2
4/24/2002	66	<4.0	<0.1	<1.0	2.4	<5.0	<5.0	<2.0	<0.2
5/30/2002	58	<4.0	<0.1	<1.0	2.8	<5.0	<5.0	2.8	<0.2
6/20/2002		INA	INA	INA	INA	INA	INA	INA	INA
9/26/2002	72	<4.0	<0.1	<1.0	2.3	<5.0	<5.0	2.3	<0.2
10/31/2002	63	<4.0	<0.1	<1.0	1.3	<5.0	<5.0	<2.0	<0.2
11/21/2002	84	<4.0	<0.1	<1.0	1.7	<5.0	<5.0	2.2	<0.2

C2: 535MER576 – Turner Slough at Fourth Ave continued…

Date	Hardness (mg/L)	Dissolved Arsenic (ug/L)	Dissolved Cadmium (ug/L)	Dissolved Chromium (ug/L)	Dissolved Copper (ug/L)	Dissolved Lead (ug/L)	Dissolved Nickel (ug/L)	Dissolved Zinc (ug/L)	Dissolved Mercury (ug/L)
Count	19	13	13	19	19	19	19	19	11
Min	55	1.0	0.1	0.5	0.5	2.5	2.5	1.0	0.1
Max	190	2.0	0.5	0.5	3.4	2.5	5.1	12.0	0.1
Mean	89	1.8	0.1	0.5	2.1	2.5	2.8	3.9	0.1
Geo Mean	83	1.8	0.1	0.5	2	2.5	2.7	2.8	0.1
Median	74	2.0	0.1	0.5	2.3	2.5	2.5	2.8	0.1
Quartile 1	64	2.0	0.1	0.5	1.8	2.5	2.5	1.0	0.1
Quartile 3	92	2.0	0.1	0.5	2.5	2.5	2.5	5.6	0.1

NOTE: For values reported as < (less than), half the detection limit was used.

NA = Data not applicable
INA = Site was inaccessible
DRY = Site had no flow

C2: 535MER576 – Turner Slough at Fourth Ave continued…

Date	Chloride (mg/L)	Sulfate (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	TDS (mg/L)	Carbonate (mg/L)	Bicarbonate (mg/L)	Total Alkalinity (mg/L)	Sodium (mg/L)
12/28/2000	260	89	41	21	2000	<1	1290	1100	500
1/25/2001	200	82	31	14	1400	23	970	830	480
2/22/2001	140	47	38	15	870	7	450	370	200
3/29/2001	140	34	30	13	840	<1	460	380	200
4/26/2001	7	8	13	6	160	<1	56	56	11
5/31/2001	5	11	14	6	130	<1	60	60	13
6/28/2001	7	11	17	8	150	<1.0	110	89	21
8/30/2001	5	10	15	6	120	<1	93	76	14
9/27/2001	12	12	16	6	140	<1	74	61	16
10/25/2001	10	14	23	9	NA	<1	140	110	23
11/29/2001	6	8	14	6	200	<1	94	77	16
12/27/2001	10	13	21	8	190	<1	150	120	32
1/31/2002	13	20	20	8	NA	<1	NA	NA	44
2/28/2002	85	110	20	9	180	<1.0	150	120	42
3/28/2002	18	21	19	9	NA	<1.0	110	89	26
4/24/2002	7	13	16	7	NA	<1.0	83	68	13
5/30/2002	5	10	14	6	92	<1.0	73	60	11
9/26/2002	8	13	16	8	NA	<1.0	84	69	16
10/31/2002	8	14	15	6	130	<1.0	85	70	18
11/21/2002	9	12	20	9	170	<1.0	120	100	22
3/27/2003			23	9					
4/24/2003	6	8	15	7					
5/29/2003	6	6	12	9					
6/26/2003	14	9	12	5					

C2: 535MER576 – Turner Slough at Fourth Ave continued…

Date	Chloride (mg/L)	Sulfate (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	TDS (mg/L)	Carbonate (mg/L)	Bicarbonate (mg/L)	Total Alkalinity (mg/L)	Sodium (mg/L)
Count	23	23	24	24	15	20	19	19	20
Min	5	6	12	5	92	0.5	56	56	11
Max	260	110	41	21	2000	23	1290	1100	500
Mean	43	25	20	9	450	2.0	250	210	86
Geo Mean	15	17	19	8	260	0.7	150	120	34
Median	9	13	17	8	170	0.5	110	89	22
Quartile 1	7	10	15	6	140	0.5	84	69	16
Quartile 3	16	21	22	9	520	0.5	150	120	43

NOTE: For values reported as < (less than), half the detection limit was used.

NA = Data not applicable
INA = Site was inaccessible
DRY = Site had no flow

C2: 535MER576 – Turner Slough at Fourth Ave continued…

	96h Acute Fathead Minnow (% Survival)		48h Acute Ceriodaphnia Dubia (% Survival)		Algae Cell Growth		
Date	Result	Control	Result	Control	Result (million/ml)	Control (million/ml)	MDD(%)
11/23/2004	100	100	100	100			
12/29/2004	100	97.5	100	100			
1/27/2005	90	100	100	100			
2/24/2005	85	100	100	100			
3/29/2005	100	100	100	100			
4/28/2005	N/A	N/A	95	100			
5/26/2005	95	97.5	100	100			
6/30/2005	92.5	100	100	100			
7/28/2005	100	97.5	100	100			
8/25/2005	97.5	100	90	100			
9/29/2005	97.5	100	100	100			
Count	10	10	11	11	N/A	N/A	N/A

* Significantly reduced from the lab control.
** Significantly greater than the lab control.
^ Fish were from a "forced hatch," duplicate failed QA.
[1] Duplicate sample for the set was low - 77% recovery.
[2] Testing for the Fathead minnow was initiated when samples were approx. 48h old due to untimely shipping of fish by fish supplier.
[3] Samples qualified, but duplicate sample recovery for the set was high - 126% (53.8%/42.5%)
NA = Data not applicable
INA = Site was inaccessible
DRY = Site had no flow

C3: 535STC501 – TID 5 Harding Drain @ Carpenter Road

Station Code: 535STC501

Location: Latitude 37.46444, Longitude -121.03028

Date	Time	Temp (ºC)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
10/26/2000	2:05 PM	15.9	258	7.3		
11/29/2000	11:10 AM	12.6	1100	7.0		
12/27/2000	10:00 AM	10.5	921	7.2		
1/24/2001	9:20 AM	12.0	1200	7.3		
2/10/2001	10:40 AM	11.4	1030	7.2		
2/11/2001	1:30 AM	10.8	1020	7.7		
2/11/2001	1:30 AM	10.8	1020	7.7		
2/21/2001	10:20 AM	15.7	875	7.5		
3/28/2001	1:10 PM	21.1	517	7.7		
4/25/2001	10:44 AM	22.0	518	7.6		
5/30/2001	1:00 PM	26.2	819	7.1		
6/5/2001	9:46 AM	20.0	624	7.6	6.1	
6/19/2001	10:55 AM	22.5	557	7.8	7.9	
6/27/2001	11:29 AM	21.4	486	7.7	8.7	
7/25/2001	12:24 PM	23.6	536	7.7	8.9	
8/29/2001	12:46 PM	23.0	487	7.8	9.9	
9/26/2001	11:13 AM	20.4	789	7.5	5.2	
10/24/2001	12:49 PM	16.3	552	7.6	8.0	
11/28/2001	11:30 AM	10.6	1460	7.8	9.1	
12/26/2001	11:05 AM	14.2	1160	7.7	9.4	
1/30/2002	11:51 AM	12.3	1180	7.8	10.7	
2/27/2002	10:50 AM	17.4	1150	7.7	9.5	
3/27/2002	10:27 AM	16.8	582	7.5	8.4	
4/30/2002	11:27 AM	18.1	649	7.6	8.8	
5/29/2002	11:20 AM	23.3	605	7.7	8.5	
6/19/2002	11:04 AM	22.7	649	7.8	9.3	
7/30/2002	10:07 AM	22.0	713	7.8	7.4	0.7
8/28/2002	12:00 PM	25.4	647	8.1	NA	
9/25/2002	12:31 PM	22.8	806	7.8	9.7	
10/15/2002	9:34 AM	18.2	378	7.5	8.9	NA
10/30/2002	10:57 AM	17.4	1090	7.6	10.7	
11/20/2002	10:48 AM	17.7	999	7.5	8.1	
12/18/2002	11:02 AM	12.8	693	7.3	8.0	16.2
1/14/2003	1:52 PM	16.7	1130	7.6	9.4	7.3
1/22/2003	2:25 PM	15.6	1100	7.8	11.5	14.6
1/29/2003	11:32 AM	16.2	1080	7.5	8.8	5.1
2/4/2003	10:04 AM	14.3	1070	7.7	9.6	3.4
2/20/2003	8:54 AM	13.6	902	7.6	9.4	5.0
3/6/2003	1:49 PM	19.4	930	7.8	15.3	3.1

C3: 535STC501 – TID 5 Harding Drain @ Carpenter Road continued…

Date	Time	Temp (ºC)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
3/20/2003	11:27 AM	18.4	851	7.6	8.7	5.7
3/25/2003	10:04 AM	17.3	585	7.5	8.3	698
4/3/2003	9:57 AM	16.7	520	7.3	9.6	29.1
4/17/2003	12:15 PM	19.1	532	8.0	10.6	9.0
5/8/2003	10:57 AM	19.3	886	7.3	7.9	16.1
5/22/2003	1:02 PM	24.6	447	8.5	12.1	10.2
6/5/2003	12:53 PM	24.7	740	8.4	12.8	6.8
6/19/2003	12:40 PM	23.2	555	8.0	9.8	5.0
6/30/2003	12:06 PM	22.5	404	8.3	10.5	7.0
7/24/2003	11:39 AM	26.4	766	7.6	9.7	70.3
7/31/2003	12:03 PM	24.9	717	7.6	8.4	6.6
8/7/2003	11:30 AM	22.2	420	7.7	8.3	396
8/21/2003	11:07 AM	23.3	456	7.6	7.6	76.0
8/28/2003	11:27 AM	24.0	805	7.6	8.5	28.5
9/11/2003	1:49 PM	26.1	843	8.2	11.3	3.0
9/25/2003	12:40 PM	22.6	527	8.5	13.5	6.3
10/9/2003	11:33 AM	20.3	508	8.0	11.0	3.8
10/23/2003	12:42 PM	18.8	430	7.9	11.7	19.6
11/6/2003	11:50 AM	18.1	1190	7.9	11.2	3.1
11/20/2003	11:30 AM	17.9	974	7.6	9.3	NA
1/8/2004	10:17 AM	15.0	1190	7.7	7.7	NA
7/29/2004	11:38 AM	INA	INA	INA	INA	INA
8/26/2004	11:55 AM	23.5	583	8.1	9.9	NA
9/30/2004	11:55 AM	20.4	581	7.9	10.8	NA
10/28/2004	11:14 AM	14.2	457	7.8	13.7	
11/23/2004	12:10 PM	15.1	1130	7.7	12.4	
12/29/2004	11:29 AM	13.9	816	7.7	10.7	
1/27/2005	1:32 PM	16.1	1190	7.8	13.2	
2/24/2005	11:38 AM	16.9	1140	7.6	8.0	
3/29/2005	2:04 PM	16.6	543	7.6	10.7	
4/28/2005	12:01 PM	18.3	361	7.8	8.7	
5/26/2005	12:57 PM	24.4	588	7.7	10.6	
6/30/2005	12:33 PM	25.8	550	8.0	10.2	
7/28/2005	11:55 AM	25.3	639	7.5	8.6	
8/25/2005	12:19 PM	23.4	454	7.9	10.1	
9/29/2005	12:23 PM	22.1	493	7.6	10.2	

C3: 535STC501 – TID 5 Harding Drain @ Carpenter Road continued…

Date	Time	Temp (ºC)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
Count		74	74	74	62	27
Min		10.5	258	7.0	5.2	0.7
Max		26.4	1460	8.5	15.3	698
Mean		19.0	759	7.7	9.7	53.9
Geo Mean		18.4	710	7.7	9.5	11.2
Median		18.6	703	7.7	9.5	7.0
Quartile 1		16.0	533	7.6	8.5	5.0
Quartile 3		22.8	1015	7.8	10.7	17.9

NOTE: For values reported as < (less than), half the detection limit was used.

NA = Data not applicable
INA = Site was inaccessible
DRY = Site had no flow

C3: 535STC501 – TID 5 Harding Drain @ Carpenter Road continued…

Date	TSS (mg/L)	TOC (mg/L)	Total Coli MPN	*E. coli* MPN
10/26/2000	49	3.3		
11/29/2000	NA	2.3		
12/27/2000	<6	2.7		
1/24/2001	13	9.4		
2/10/2001	10	9.9		
2/11/2001	18	9.2		
2/21/2001	11	NA		
3/28/2001	26	NA		
4/25/2001	5	3.9		
5/30/2001	8	12		
6/27/2001	8	8.4		
7/25/2001		5.1		
8/29/2001	NA	12		
9/26/2001	NA	16		
11/28/2001		NA		
12/26/2001		9.0		
3/27/2002		NA		
4/30/2002		NA		
5/29/2002		4.0		
6/19/2002		NA		
7/30/2002			>2419.6	16
9/25/2002		NA		
10/15/2002			>2419.6	328
10/30/2002		4.2		
11/20/2002		5.8		
1/14/2003			1733	488
1/22/2003			>2419.6	261
2/4/2003			>2419.6	238
2/20/2003			>2419.6	461
3/6/2003			>2419.6	435
3/20/2003	NA	5.4	>2419.6	153
3/25/2003		2.8		
4/3/2003	NA	NA	>2419.6	435
4/17/2003	10	4.3	>2419.6	179
5/8/2003	NA	12	>2419.6	1120
5/22/2003	7	3.1	>2419.6	196
6/5/2003	5	8.3	>2419.6	649
6/19/2003	7	4.8	>2419.6	345
6/30/2003	NA	3.6	>2419.6	291
7/31/2003			>2419.6	365
8/7/2003			>2419.6	517

C3: 535STC501 – TID 5 Harding Drain @ Carpenter Road continued…

Date	TSS (mg/L)	TOC (mg/L)	Total Coli MPN	*E. coli* MPN
8/21/2003			>2419.6	1203
8/28/2003			>2419.6	1300
9/11/2003			>2419.6	866
9/25/2003			>2419.6	980
10/9/2003			>2419.6	108
10/23/2003			>2419.6	411
11/6/2003			>2419.6	345
11/20/2003			>2419.6	93
1/8/2004			>2419.6	816
7/29/2004			INA	INA
8/26/2004			>2419.6	285
9/30/2004			>2419.6	238
10/28/2004		3.9	>2419.6	214
11/23/2004		6.3	>2419.6	1203
12/29/2004		7.4	>2419.6	>2419.6
1/27/2005		8.0	>2419.6	361
2/24/2005		24	>2419.6	>2419.6
3/29/2005		3.6	>2419.6	365
4/28/2005		3.4	>2419.6	387
5/26/2005		5.8	>2419.6	1553
6/30/2005		NA	>2419.6	248
7/28/2005		NA	>2419.6	548
8/25/2005		5.4	>2419.6	1120
9/29/2005		5.2	>2419.6	517
Count	14	34	40	40
Min	3	2.3	1733	16
Max	49	24	2420	2420
Mean	13	6.9	NA	NA
Geo Mean	10	5.9	2400	422
Median	9	5.4	2420	399
Quartile 1	7	3.9	2420	258
Quartile 3	13	8.9	2420	829

NOTE: For values reported as < (less than), half the detection limit was used
For values reported as > (greater than), 2420 was used

NA = Data not applicable
INA = Site was inaccessible
DRY = Site had no flow

C3: 535STC501 – TID 5 Harding Drain @ Carpenter Road continued…

Date	Nitrate (mg/L)	Nitrate-N (mg/L)	TKN (mg/L)	Ammonia-N (mg/L)	Phosphorus (mg/L)	Ortho-phosphate-P (mg/L)	Potassium (mg/L)	BOD 5-Day (mg/L)	BOD 10-Day (mg/L)
10/26/2000	14		<2		NA	<1	3.6	4.4	5.5
11/29/2000	41		NA		0.3	2.2	14	7.3	15.6
12/27/2000	9.9		13		0.2	3.2	18	8.1	16.5
1/24/2001	15		16		1.7	4.4	21	8.2	16.6
2/10/2001	27		<2		0.4	1.2	15	7.5	14.8
2/11/2001	24		7.0		1.0	<1	16		
2/21/2001	19		10		1.5	2.7	15	8.0	16.4
3/28/2001	15		3.7		1.1	<1	9.1	7.7	15.9
4/25/2001	25		2.6		1.6	1.4	6.9	5.4	8.5
5/30/2001	19		9.5		1.9	2.3	16	7.8	16.2
6/27/2001	15		2.9		1.6	1.8	7.7	4.6	8.4
8/29/2001	23		<2		0.8	<1	NA		
9/26/2001	44		7.9		1.4	<1	14		
10/24/2001	32		<2		0.8	<1	6.6	5.1	8.5
11/28/2001	NA		0.1		NA	<0.03	1.2	3.6	8.8
12/26/2001	NA		8.8		2.1	2.0	11	7.3	15.5
1/30/2002	NA		5.2		0.8	0.6	14	7.4	15.9
2/27/2002	NA		11		1.6	1.4	NA	6.1	14.6
3/27/2002	NA		4.2		NA	0.5	4.7	7.0	15.5
4/30/2002	NA		NA		2.3	2.0	NA	7.6	14.2
5/29/2002	NA		2.4		NA	1.6	7.3	4.6	8.2
6/19/2002	NA		2.5		1.8	NA	9.9	6.3	12.2
8/28/2002	NA		2.2		0.8	0.7	8.5	4.9	8.0
9/25/2002	NA		NA		1.3	1.3	6.8	1.7	3.5
10/30/2002	NA		NA		3.2	0.1	8.7	1.0	3.3
11/20/2002	NA		6.6		4.2	2.6	15		
12/18/2002	NA		4.0		3.2	3.2	9.7	6.4	8.7
1/29/2003	NA		NA		7.5	3.7	11	3.6	7.2

C3: 535STC501 – TID 5 Harding Drain @ Carpenter Road continued…

Date	Nitrate (mg/L)	Nitrate-N (mg/L)	TKN (mg/L)	Ammonia-N (mg/L)	Phosphorus (mg/L)	Ortho-phosphate-P (mg/L)	Potassium (mg/L)	BOD 5-Day (mg/L)	BOD 10-Day (mg/L)
Count	14	NA	23	NA	24	27	25	24	24
Min	9.9	NA	0.1	NA	0.2	0.02	1.2	1.0	3.3
Max	44	NA	16	NA	7.5	4.4	21	8.2	16.6
Mean	23	NA	5.4	NA	1.8	1.6	10.8	5.9	11.6
Geo Mean	21	NA	3.4	NA	1.3	1.0	9.5	5.4	11
Median	21	NA	4.0	NA	1.6	1.4	9.9	6.4	13.2
Quartile 1	15	NA	2.3	NA	0.8	0.5	7.3	4.6	8.4
Quartile 3	27	NA	8.4	NA	2.0	2.3	15.0	7.5	15.7

NOTE: For values reported as < (less than), half the detection limit was used.

NA = Data not applicable
INA = Site was inaccessible
DRY = Site had no flow

C3: 535STC501 – TID 5 Harding Drain @ Carpenter Road continued…

Date	Hardness (mg/L)	Total Arsenic (ug/L)	Total Cadmium (ug/L)	Total Chromium (ug/L)	Total Copper (ug/L)	Total Lead (ug/L)	Total Nickel (ug/L)	Total Zinc (ug/L)	Total Mercury (ug/L)
10/26/2000	64			1.3	2.5	<5	<5	14	
11/29/2000	220			1.3	1.9	<5	<5	18	
12/27/2000	130			2.1	2.8	<5	<5	19	
1/24/2001	160			2.0	4.0	<5	<5	22	
2/10/2001	180			1.8	4.7	<5	<5	17	
2/11/2001	180			1.9	5.1	<5	<5	23	
2/21/2001	160			1.8	3.8	<5	<5	19	
3/28/2001	99			1.3	3.9	<5	<5	11	
4/25/2001	120			<1	1.8	<5	<5	5.6	
5/30/2001	150			<1	2.0	<5	<5	13	
7/25/2001	100			6.7	1.7	<5	<5	6.7	
8/29/2001	NA	2.6	<1	<1	1.5	<5	<5	5.5	
9/26/2001	200	5.7	0.2	13	26	10	12	88	<0.2
10/24/2001	130	<4.0	<0.1	NA	<1.0	<5.0	<5.0	9.4	<0.2
11/28/2001	240	8.8	<0.1	<1.0	2.2	<5.0	<5.0	18	<0.2
12/26/2001	210	8.0	<0.1	1.5	<1	<5	<5	21	<0.2
1/30/2002	270	5.3	<0.1	<1	2.5	<5	<5	11	<0.2
3/27/2002	130	<4.0	<0.1	1.0	3.4	<5.0	<5.0	13	<0.2
4/30/2002	130	4.4	<0.1	<1.0	2.0	<5.0	<5.0	12	<0.2
5/29/2002	140	4.4	<0.1	2.3	NA	<5.0	<5.0	22	<0.2
6/19/2002	160	4.4	<0.1	<1.0	2.6	<5.0	<5.0	8.9	<0.2
9/25/2002	210	8.1	<0.1	1.2	NA	<5.0	<5.0	10	<0.2
11/20/2002	200	5.5	<0.1	1.8	3.7	<5.0	NA	NA	<0.2
3/20/2003	NA	5.6	<0.1	1.6	2.8	<5.0	<5.0	24	<0.2
3/25/2003	140	7.5	0.2	16	30	14	13	140	<0.2
4/17/2003	100	<4.0	<0.1	<1.0	1.9	<5.0	<5.0	13	<0.2
5/22/2003	110	<4.0	<0.1	<1.0	2.2	<5.0	<5.0	9.1	<0.2
6/19/2003	120	4.2	<0.1	<1.0	2.7	<5.0	<5.0	13	<0.2
6/30/2003	90	<4.0	<0.1	<1.0	2.2	<5.0	<5.0	6.9	<0.2

C3: 535STC501 – TID 5 Harding Drain @ Carpenter Road continued…

Date	Hardness (mg/L)	Total Arsenic (ug/L)	Total Cadmium (ug/L)	Total Chromium (ug/L)	Total Copper (ug/L)	Total Lead (ug/L)	Total Nickel (ug/L)	Total Zinc (ug/L)	Total Mercury (ug/L)
Count	27	18	18	28	27	29	28	28	17
Min	64	2.0	0.1	0.5	0.5	2.5	2.5	5.5	0.1
Max	270	8.8	0.5	16.0	30	14.0	13	140	0.1
Mean	150	4.7	0.1	2.3	4.5	3.2	3.2	21.2	0.1
Geo Mean	150	4.1	0.1	1.2	2.8	2.8	2.8	15.0	0.1
Median	140	4.4	0.1	1.3	2.5	2.5	2.5	13.0	0.1
Quartile 1	120	2.2	0.1	0.5	2.0	2.5	2.5	9.9	0.1
Quartile 3	190	5.7	0.1	1.8	3.8	2.5	2.5	19.5	0.1

NOTE: For values reported as < (less than), half the detection limit was used.

NA = Data not applicable
INA = Site was inaccessible
DRY = Site had no flow

C3: 535STC501 – TID 5 Harding Drain @ Carpenter Road continued…

Date	Hardness (mg/L)	Dissolved Arsenic (ug/L)	Dissolved Cadmium (ug/L)	Dissolved Chromium (ug/L)	Dissolved Copper (ug/L)	Dissolved Lead (ug/L)	Dissolved Nickel (ug/L)	Dissolved Zinc (ug/L)	Dissolved Mercury (ug/L)
10/26/2000	64			<1	<1	<5	<5	2.5	
11/29/2000	220			<1	1.6	<5	<5	12	
12/27/2000	130			2.0	2.7	<5	<5	19	
1/24/2001	160			1.7	2.4	<5	<5	20	
2/10/2001	180			1.2	3.3	<5	<5	14	
2/11/2001	180			1.3	2.8	<5	<5	18	
2/21/2001	160			1.4	2.7	<5	<5	15	
3/28/2001	99			<1	1.9	<5	<5	6.6	
4/25/2001	120			<1	1.2	<5	<5	6.8	
5/30/2001	150			<1	1.3	<5	<5	14	
8/29/2001	NA	2.6	<1	<1	<1	<5	<5	3.9	
9/26/2001	200	<4	<0.1	<1	1.9	<5	<5	9.4	<0.2
10/24/2001	130	<4.0	<0.1	NA	1.4	<5.0	<5.0	8.0	<0.2
11/28/2001	240	7.7	<0.1	<1.0	2.1	<5.0	<5.0	NA	<0.2
12/26/2001	210	8.1	<0.1	<1	2.6	<5	<5	17	<0.2
1/30/2002	270	<4	<0.1	<1	1.4	<5	<5	6.4	<0.2
3/27/2002	130	4.8	<0.1	<1.0	1.5	<5.0	<5.0	8.9	<0.2
4/30/2002	130	5.0	<0.1	<1.0	1.2	<5.0	<5.0	13	<0.2
5/29/2002	140	<4.0	<0.1	<1.0	<1.0	<5.0	<5.0	6.0	<0.2
6/19/2002	160	<4.0	<0.1	<1.0	1.5	<5.0	<5.0	5.2	<0.2
9/25/2002	210	6.9	<0.1	<1.0	NA	<5.0	<5.0	5.2	<0.2
11/20/2002	200	6.9	<0.1	1.4	2.5	<5.0	<5.0	19	<0.2
Count	21	12	12	21	21	22	22	21	11
Min	64	2.0	0.1	0.5	0.5	2.5	2.5	2.5	0.1
Max	270	8.1	0.5	2.0	3.3	2.5	2.5	20.0	0.1
Mean	166	4.3	0.1	0.8	1.8	2.5	2.5	10.9	0.1
Geo Mean	158	3.7	0.1	0.7	1.6	2.5	2.5	9.5	0.1
Median	160	3.7	0.1	0.5	1.6	2.5	2.5	9.4	0.1
Quartile 1	130	2.0	0.1	0.5	1.3	2.5	2.5	6.4	0.1
Quartile 3	200	6.9	0.1	1.2	2.5	2.5	2.5	15.0	0.1

NOTE: For values reported as < (less than), half the detection limit was used.

NA = Data not applicable
INA = Site was inaccessible
DRY = Site had no flow

C3: 535STC501 – TID 5 Harding Drain @ Carpenter Road continued…

Date	Chloride (mg/L)	Sulfate (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	TDS (mg/L)	Carbonate (mg/L)	Bicarbonate (mg/L)	Total Alkalinity (mg/L)	Sodium (mg/L)
10/26/2000	20	12	17	5	160	<1	80	60	22
11/29/2000	140	45	63	15	660	<1	290	230	130
12/27/2000	93	60	38	9	520	<1	280	230	110
1/24/2001	130	74	47	11	670	<1	350	290	160
2/10/2001	110	56	52	13	530	<1	300	250	130
2/11/2001	120	61	51	12	580	<1	290	240	130
2/21/2001	83	52	44	11	490	<1	260	220	110
3/28/2001	67	22	27	8	290	<1	130	110	56
4/25/2001	43	NA	33	10	NA	<1	130	130	49
5/30/2001	83	50	42	10	NA	<1	200	200	91
6/27/2001	57	24	29	8	280	<1	140	120	53
8/29/2001	47	NA	NA	NA	280	<1.0	140	120	50
9/26/2001	NA	NA	53	17	NA	<1	240	200	89
10/24/2001	51	26	35	10	340	<1	180	140	64
11/28/2001	250	59	68	17	760	<1	560	460	210
12/26/2001	160	51	59	15	630	<1	300	240	150
1/30/2002	140	49	76	18	700	<1	320	260	140
2/27/2002	130	81	52	14	NA	<1.0	317	260	170
3/27/2002	64	29	36	9	330	<1.0	150	130	63
4/30/2002	74	35	35	10	NA	<1.0	160	130	79
5/29/2002	65	29	38	11	NA	<1.0	160	140	73
6/19/2002	71	30	43	12	NA	<1.0	200	160	78
9/25/2002	70	40	56	16	NA	<1.0	250	200	92
10/30/2002	120	50	69	18	690	<1.0	290	240	140
11/20/2002	99	61	52	17	610	<1.0	280	230	120
3/20/2003	NA	NA	NA	NA					
3/25/2003	64	45	34	14					
4/17/2003	59	32	28	8					
5/22/2003	40	26	28	9					
6/19/2003	50	38	32	9					
6/30/2003	46	18	25	7					

C3: 535STC501 – TID 5 Harding Drain @ Carpenter Road continued…

Date	Chloride (mg/L)	Sulfate (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	TDS (mg/L)	Carbonate (mg/L)	Bicarbonate (mg/L)	Total Alkalinity (mg/L)	Sodium (mg/L)
Count	29	27	29	29	17	25	25	25	25
Min	20	12	17	5	160	0.5	80	60	22
Max	250	81	76	18	760	0.5	560	460	210
Mean	88	43	44	12	500	0.5	240	200	102
Geo Mean	77	39	41	11	460	0.5	221	184	92
Median	71	45	42	11	530	0.5	250	200	92
Quartile 1	57	29	33	9	330	0.5	160	130	64
Quartile 3	120	54	52	15	660	0.5	290	240	130

NOTE: For values reported as < (less than), half the detection limit was used.

NA = Data not applicable
INA = Site was inaccessible
DRY = Site had no flow

C3: 535STC501 – TID 5 Harding Drain @ Carpenter Road continued…

	96h Acute Fathead Minnow (% Survival)		48h Acute Ceriodaphnia Dubia (% Survival)		Algae Cell Growth		
Date	Result	Control	Result	Control	Result (million/ml)	Control (million/ml)	MDD (%)
10/26/2000	100	100	NA	NA			
06/19/2001	100	100	100	90			
10/24/2001	100	100	100	100			
11/28/2001	NA	NA	100	100			
12/26/2001	95	100	90	100			
01/30/2002	100	100	100	90			
02/27/2002	95	100	100	100			
04/30/2002	100	100	100	100			
05/29/2002	100	100	100	100			
06/19/2002	100	100	100	100			
08/28/2002	100	100	NA	NA			
09/25/2002	85	100	100	100			
10/30/2002	95	100	100	100			
11/20/2002	95	100	100	100			
12/18/2002	95	90	100	100	0.794*	3.03	NA
01/29/2003	100	100	100	100	0.368*	3.28	NA
04/17/2003	100	100	100	100	3.61**	1.84	47
05/22/2003	90	100	100	100	4.22**	2.08	91
11/23/2004	100	100	90	100			
12/29/2005	100	97.5	100	100			
01/27/2005	92.5	100	92.5	100			
02/24/2005	97.5	100	100	100			
03/29/2005	97.5	100	100	100			
04/28/2005	N/A	N/A	100	100			
05/26/2005	97.5	97.5	100	100			
06/30/2005	100	100	100	100			
07/28/2005	100	97.5	100	100			
08/25/2005	100	100	100	100			
09/29/2005	100	100	100	100			
Count	27	27	27	27	4	4	2

* Significantly reduced from the lab control.
** Significantly greater than the lab control.
^ Fish were from a "forced hatch," duplicate failed QA.
[1] Duplicate sample for the set was low - 77% recovery.
[2] Testing for the Fathead minnow was initiated when samples were approx. 48h old due to untimely shipping of fish by fish supplier.
[3] Samples qualified, but duplicate sample recovery for the set was high - 126% (53.8%/42.5%)
NA = Data not applicable
INA = Site was inaccessible
DRY = Site had no flow

C4: 535STC513 – Tuolumne River at Shiloh Fishing Access

Station Code: 535STC513

Location: Latitude 37.60306, Longitude -121.13167

Date	Time	Temp (ºC)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
10/26/2000	10:55 AM	16.0	175	7.6		
11/29/2000	9:45 AM	10.7	197	7.8		
12/27/2000	11:40 AM	9.1	196	8.2		
1/24/2001	11:00 AM	10.3	207	8.0		
2/7/2001	12:30 PM	11.3	208	8.2		
2/10/2001	12:20 PM	10.0	190	8.0		
2/11/2001	2:20 AM	9.3	160	7.7		
2/21/2001	12:45 PM	13.8	86	9.0		
3/13/2001	12:45 PM	16.2	107	8.2		
3/28/2001	11:15 AM	20.0	197	6.7		
4/18/2001	1:09 PM	20.9	215	8.2		
4/25/2001	9:18 AM	20.4	121	7.2		
5/15/2001	1:05 PM	20.7	95	8.0		
5/30/2001	10:40 AM	23.6	283	7.5		
6/6/2001	9:05 AM	21.1	278	6.7	6.8	
6/13/2001	11:10 AM	22.2	345	8.2	8.1	
6/20/2001	8:50 AM	24.8	396	7.4	7.8	
6/27/2001	9:50 AM	22.8	313	7.9	7.3	
7/25/2001	10:24 AM	25.6	282	8.0	10.1	
8/14/2001	12:20 PM	24.5	236	8.1	9.4	
8/29/2001	10:40 AM	24.5	259	7.5	9.0	
9/26/2001	9:50 AM	20.6	240	7.5	9.6	
10/24/2001	10:42 AM	15.6	182	7.9	9.7	
11/28/2001	9:50 AM	10.7	253	8.6	10.7	
12/26/2001	10:08 AM	11.0	266	7.8	10.2	
1/30/2002	10:09 AM	7.7	198	8.0	12.3	
2/27/2002	9:35 AM	15.0	278	7.7	11.0	
3/27/2002	9:15 AM	15.9	235	8.3	9.7	
4/30/2002	10:09 AM	13.5	62	7.4	11.1	
5/29/2002	9:38 AM	22.6	234	7.5	8.4	
6/19/2002	9:20 AM	23.4	300	7.7	7.6	
7/31/2002	8:04 AM	23.9	288	7.0	6.9	2.1
8/28/2002	10:20 AM	24.1	264	8.1	NA	
9/25/2002	10:32 AM	22.1	260	7.7	8.4	
10/15/2002	10:58 AM	17.6	199	7.8	8.8	NA
10/30/2002	9:21 AM	13.9	184	7.5	9.4	
11/20/2002	9:39 AM	12.8	248	7.6	10.3	
12/18/2002	9:11 AM	10.3	217	7.6	8.4	94.5

C4: 535STC513 – Tuolumne River at Shiloh Fishing Access continued…

Date	Time	Temp (ºC)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
1/14/2003	1:19 PM	12.7	229	7.6	10.0	9.8
1/22/2003	3:06 PM	11.8	260	8.2	11.2	5.8
1/29/2003	9:59 AM	12.7	228	7.7	10.2	9.9
2/4/2003	9:30 AM	10.7	240	8.1	11.1	3.2
2/19/2003	10:40 AM	12.4	236	7.9	10.5	7.0
3/5/2003	10:12 AM	13.2	240	7.7	11.0	2.6
3/18/2003	11:38 AM	15.4	216	7.9	9.0	46.8
3/25/2003	9:06 AM	16.2	217	8.0	10.1	5.7
4/2/2003	11:40 AM	16.5	205	8.2	9.7	18.5
4/16/2003	11:16 AM	13.9	58	7.5	10.1	15.8
5/6/2003	11:59 AM	17.3	114	8.2	9.8	8.8
5/21/2003	11:42 AM	22.0	207	7.6	9.2	5.6
6/4/2003	11:05 AM	24.0	168	7.6	8.1	26.3
6/17/2003	11:08 AM	24.4	182	7.6	9.1	7.2
6/30/2003	12:49 PM	25.8	158	7.9	8.1	6.9
7/23/2003	10:03 AM	26.4	163	7.6	7.8	4.1
8/5/2003	9:54 AM	23.1	151	7.6	9.6	4.2
8/20/2003	10:13 AM	23.8	164	7.7	8.1	5.0
9/9/2003	10:02 AM	20.5	173	7.7	8.3	6.0
9/22/2003	10:17 AM	21.5	165	7.6	8.5	4.9
10/7/2003	10:43 AM	19.6	173	8.0	8.9	12.4
10/21/2003	11:58 AM	17.3	106	7.7	8.7	4.8
11/4/2003	10:53 AM	12.5	185	7.8	10.9	10.0
11/17/2003	10:47 AM	14.1	205	7.9	10.5	3.8
1/6/2004	9:47 AM	8.1	200	7.7	12.4	13.6
1/29/2004	12:54 PM	12.3	199	8.0	12.4	12.4
2/26/2004	12:43 PM	13.0	149	7.9	10.0	NA
3/24/2004	1:15 PM	15.2	67	7.8	10.1	NA
4/29/2004	1:46 PM	19.1	97	8.2	9.9	8.0
5/27/2004	1:36 PM	24.5	206	8.3	9.2	7.3
6/24/2004	1:58 PM	25.9	247	8.2	11.2	NA
7/29/2004	12:34 PM	26.4	222	8.5	10.2	NA
8/26/2004	1:41 PM	25.7	256	8.2	9.4	NA
9/30/2004	12:35 PM	20.9	255	8.2	10.3	NA
10/28/2004	1:15 PM	13.8	76	8.5	9.8	
11/23/2004	12:45 PM	11.5	235	7.9	12.5	
12/29/2004	12:28 PM	11.2	186	7.9	11.5	
1/27/2005	2:51 PM	12.2	289	8.1	11.8	
2/24/2005	12:33 PM	11.9	56	8.3	11.0	
3/29/2005	2:41 PM	12.5	54	7.9	10.4	
4/28/2005	12:38 PM	12.4	51	8.3	11.3	
5/26/2005	1:45 PM	14.9	45	7.8	10.3	
6/30/2005	1:42 PM	16.6	53	7.8	9.7	
7/28/2005	12:26 PM	20.0	81	7.7	9.4	
8/25/2005	1:07 PM	21.8	150	7.7	8.5	
9/29/2005	12:56 PM	20.7	172	7.4	8.3	

C4: 535STC513 – Tuolumne River at Shiloh Fishing Access continued…

Date	Time	Temp (ºC)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
Count		84	84	84	69	30
Min		7.7	45	6.7	6.8	2.1
Max		26.4	396	9.0	12.5	94.5
Mean		17.3	193	7.9	9.7	12.4
Geo Mean		16.5	175	7.8	9.6	8.1
Median		16.4	200	7.9	9.7	7.1
Quartile 1		12.5	160	7.6	8.7	4.9
Quartile 3		22.1	240	8.1	10.5	11.8

NOTE: For values reported as < (less than), half the detection limit was used.

NA = Data not applicable
INA = Site was inaccessible
DRY = Site had no flow

C4: 535STC513 – Tuolumne River at Shiloh Fishing Access continued…

Date	TSS (mg/L)	TOC (mg/L)	Total Coli MPN	*E. coli* MPN
10/26/2000	<5	<1		
11/29/2000	NA	<1		
12/27/2000	<6	1.0		
1/24/2001	6	1.4		
2/10/2001	6	2.2		
2/11/2001	13	2.1		
2/21/2001	8	NA		
3/28/2001	<5	NA		
4/25/2001	14	1.5		
5/30/2001	10	5.3		
6/27/2001	<6	7.0		
7/25/2001		2.3		
8/29/2001	NA	6.5		
9/26/2001	NA	6.6		
11/28/2001		NA		
12/26/2001		2.8		
3/27/2002		NA		
4/30/2002		NA		
5/29/2002		2.4		
6/19/2002		NA		
7/31/2002			>2419.6	15
8/28/2002		NA		
9/25/2002		NA		
10/15/2002			>2419.6	122
10/30/2002		1.4		
11/20/2002		1.2		
12/18/2002		8.7		
1/14/2003			1046	178
1/22/2003			602	31
2/4/2003			291	19
2/19/2003			921	39
3/5/2003			285	30
3/18/2003	9	NA	>2419.6	104
4/2/2003	7	2.4	>2419.6	649
4/16/2003	14	2.7	>2419.6	345
5/6/2003	NA	2.4	1011	96
5/21/2003	NA	2.2	>2419.6	107
6/4/2003	32	3.7	>2419.6	517
6/17/2003	8	2.5	>2419.6	53
6/30/2003	6	3.0	>2419.6	78
7/23/2003			>2419.6	69

C4: 535STC513 – Tuolumne River at Shiloh Fishing Access continued…

Date	TSS (mg/L)	TOC (mg/L)	Total Coli MPN	*E. coli* MPN
8/5/2003			>2419.6	179
8/20/2003			>2419.6	59
9/9/2003			>2419.6	79
9/22/2003			>2419.6	147
10/7/2003			>2419.6	43
10/21/2003			>2419.6	71
11/4/2003			>2419.6	70
11/17/2003			>2419.6	25
1/6/2004			>2419.6	206
1/29/2004			179	8
2/26/2004			>2419.6	488
3/24/2004			1733	54
4/29/2004			1986	55
5/27/2004			>2419.6	102
6/24/2004			>2419.6	86
7/29/2004			>2419.6	105
8/26/2004			>2419.6	23
9/30/2004			>2419.6	39
10/28/2004		1.6	>2419.6	488
11/23/2004		1.3	1553	43
12/29/2004		2.0	>2419.6	613
1/27/2005		2.6	>2419.6	488
2/24/2005		2.4	1300	93
3/29/2005		2.2	>2419.6	137
4/28/2005		1.9	>2419.6	91
5/26/2005		2.0	>2419.6	68
6/30/2005		NA	2420	38
7/28/2005		NA	>2419.6	55
8/25/2005		2.1	>2419.6	39
9/29/2005		2.2	>2419.6	60
Count	16	34	46	46
Min	3	0.5	179	8
Max	32	8.7	2420	649
Mean	9	2.7	NA	NA
Geo Mean	7	2	1843	83
Median	8	2.2	2420	75
Quartile 1	5	1.7	2420	43
Quartile 3	11	2.7	2420	133

NOTE: For values reported as < (less than), half the detection limit was used
For values reported as > (greater than), 2420 was used

NA = Data not applicable
INA = Site was inaccessible
DRY = Site had no flow

C4: 535STC513 – Tuolumne River at Shiloh Fishing Access continued…

Date	Nitrate (mg/L)	Nitrate-N (mg/L)	TKN (mg/L)	Ammonia-N (mg/L)	Phosphorus (mg/L)	Ortho-phosphate-P (mg/L)	Potassium (mg/L)	BOD 5-Day (mg/L)	BOD 10-Day (mg/L)
10/26/2000	6.5		<2		<0.1	<1	1.7	0.8	1.0
11/29/2000	6.8		NA		<0.1	<1	1.6	0.2	0.2
12/27/2000	6.8		2.2		<0.1	<1	1.7	0.3	0.3
1/24/2001	7.2		<2		<0.1	<1	1.8	0.7	0.9
2/10/2001	5.9		<2		<0.1	<1	1.8	<0.1	0.8
2/11/2001	4.7		<2		<0.1	<1	1.6		
2/21/2001	2.5		<2		<0.1	<1	1.1	0.4	0.7
3/28/2001	6.2		<2		<0.1	<1	1.8	0.8	1.2
4/25/2001	3.8		<2		0.1	<1	1.6	0.5	0.9
5/30/2001	8.7		<2		0.2	<1	3.2	0.8	1.2
6/27/2001	9.3		<2		0.2	<1	4.1	0.6	1.2
8/29/2001	8.5		<2		0.4	<1	NA		
9/26/2001	7.6		<2		0.2	<1	3.3		
10/24/2001	6.6		<2		<0.1	<1	1.6	0.5	0.6
11/28/2001	NA		0.3		NA	0.1	6.2	0.3	0.4
12/26/2001								0.7	1.5
1/30/2002								0.4	0.8
2/27/2002								0.5	0.8
3/27/2002								0.4	0.8
4/30/2002								0.5	0.9
5/29/2002								0.5	0.8
6/19/2002								0.9	1.4
8/28/2002								0.2	0.8
9/25/2002								0.8	1.2
10/30/2002								0.3	0.4
12/18/2002								5.6	8.4
1/29/2003								0.3	0.6

C4: 535STC513 – Tuolumne River at Shiloh Fishing Access continued…

Date	Nitrate (mg/L)	Nitrate-N (mg/L)	TKN (mg/L)	Ammonia-N (mg/L)	Phosphorus (mg/L)	Ortho-phosphate-P (mg/L)	Potassium (mg/L)	BOD 5-Day (mg/L)	BOD 10-Day (mg/L)
Count	14	NA	14	NA	14	15	14	24	24
Min	2.5	NA	0.3	NA	0.1	0.1	1.1	0.1	0.2
Max	9.3	NA	2.2	NA	0.4	0.5	6.2	5.6	8.4
Mean	6.5	NA	1	NA	0.1	0.5	2.4	0.7	1.2
Geo Mean	6.2	NA	1	NA	0.1	0.4	2.1	0.5	0.8
Median	6.7	NA	1	NA	0.1	0.5	1.8	0.5	0.8
Quartile 1	6.0	NA	1	NA	0.1	0.5	1.6	0.3	0.7
Quartile 3	7.5	NA	1	NA	0.2	0.5	2.9	0.7	1.2

NOTE: For values reported as < (less than), half the detection limit was used.

NA = Data not applicable
INA = Site was inaccessible
DRY = Site had no flow

C4: 535STC513 – Tuolumne River at Shiloh Fishing Access continued…

Date	Hardness (mg/L)	Total Arsenic (ug/L)	Total Cadmium (ug/L)	Total Chromium (ug/L)	Total Copper (ug/L)	Total Lead (ug/L)	Total Nickel (ug/L)	Total Zinc (ug/L)	Total Mercury (ug/L)
10/26/2000				<1	<1	<5	<5		
11/29/2000	61			<1	<1	<5	<5	<2	
12/27/2000	62			<1	<1	<5	<5	2.1	
1/24/2001	64			<1	1.3	<5	<5	<2	
2/10/2001	63			<1	1.4	<5	<5	2	
2/11/2001	54			<1	1.7	<5	<5	2.7	
2/21/2001	5			<1	1.2	<5	<5	3.1	
3/28/2001	60			<1	1.7	<5	<5	<2	
4/25/2001	39			<1	1.9	<5	<5	2	
5/30/2001	83			<1	1.5	<5	<5	<2	
7/25/2001				<1	1.1	<5	<5	<2	
8/29/2001	76	2.1	<1	<1	1.1	<5	<5	<2	
9/26/2001	73	<4	<0.1	<1	2.2	<5	<5	2.4	<0.2
10/24/2001	58	<4.0	<0.1	NA	<1.0	<5.0	<5.0	<2.0	<0.2
11/28/2001	77	<4.0	<0.1	<1.0	<1.0	<5.0	<5.0	3.1	<0.2
12/26/2001		<4	<0.1	1	2.2	<5	<5	6.9	<0.2
1/30/2002		<4	<0.1	<1	<1	<5	<5	<2	<0.2
3/27/2002		<4.0	<0.1	1.1	1.7	<5.0	5.6	5	<0.2
4/30/2002		<4.0	<0.1	<1.0	<1.0	<5.0	<5.0	2.1	<0.2
5/29/2002		<4.0	<0.1	<1.0	NA	<5.0	<5.0	3.1	<0.2
6/19/2002		<4.0	<0.1	<1.0	1.1	<5.0	<5.0	<2.0	<0.2
9/25/2002	78	<4.0	<0.1	<1.0	NA	<5.0	<5.0	<2.0	<0.2
10/30/2002	60	<4.0	<0.1	<1.0	NA	<5.0	<5.0	<2.0	<0.2
11/20/2002	82	<4.0	<0.1	<1.0	1.2	<5.0	NA	NA	<0.2
3/18/2003	71	<4.0	<0.1	<1.0	2.5	<5.0	<5.0	3.3	<0.2
4/16/2003	21	<4.0	<0.1	<1.0	2.1	<5.0	<5.0	3.1	<0.2
5/21/2003	66	<4.0	<0.1	<1.0	2.1	<5.0	<5.0	<2.0	<0.2
6/17/2003	56	<4.0	<0.1	<1.0	1.5	<5.0	<5.0	<2.0	<0.2
6/30/2003	50	<4.0	<0.1	<1.0	1.8	<5.0	<5.0	<2.0	<0.2

C4: 535STC513 – Tuolumne River at Shiloh Fishing Access continued…

Date	Hardness (mg/L)	Total Arsenic (ug/L)	Total Cadmium (ug/L)	Total Chromium (ug/L)	Total Copper (ug/L)	Total Lead (ug/L)	Total Nickel (ug/L)	Total Zinc (ug/L)	Total Mercury (ug/L)
Count	21	18	18	28	26	29	28	27	17
Min	5	2.0	0.1	0.5	0.5	2.5	2.5	1.0	0.1
Max	83	2.1	0.5	1.1	2.5	2.5	5.6	6.9	0.1
Mean	60	2.0	0.1	0.5	1.3	2.5	2.6	2.0	0.1
Geo Mean	54	2.0	0.1	0.5	1.2	2.5	2.6	1.7	0.1
Median	62	2.0	0.1	0.5	1.4	2.5	2.5	1.0	0.1
Quartile 1	56	2.0	0.1	0.5	0.7	2.5	2.5	1.0	0.1
Quartile 3	73	2.0	0.1	0.5	1.8	2.5	2.5	2.9	0.1

NOTE: For values reported as < (less than), half the detection limit was used.

NA = Data not applicable
INA = Site was inaccessible
DRY = Site had no flow

C4: 535STC513 – Tuolumne River at Shiloh Fishing Access continued…

Date	Hardness (mg/L)	Dissolved Arsenic (ug/L)	Dissolved Cadmium (ug/L)	Dissolved Chromium (ug/L)	Dissolved Copper (ug/L)	Dissolved Lead (ug/L)	Dissolved Nickel (ug/L)	Dissolved Zinc (ug/L)	Dissolved Mercury (ug/L)
10/26/2000				<1	<1	<5	<5	<2	
11/29/2000	61			<1	<1	<5	<5	<2	
12/27/2000	62			<1	<1	<5	<5	<2	
1/24/2001	64			<1	<1	<5	<5	<2	
2/10/2001	63			<1	1.1	<5	<5	<2	
2/11/2001	54			<1	<1	<5	<5	<2	
2/21/2001	5			<1	<1	<5	<5	<2	
3/28/2001	60			<1	<1	<5	<5	<2	
4/25/2001	39			<1	<1	<5	<5	<2	
5/30/2001	83			<1	<1	<5	<5	2.4	
7/25/2001									
8/29/2001	76	2	<1	<1	1.5	<5	<5	<2	
9/26/2001	73	<4	<0.1	<1	1.5	<5	<5	<2	<0.2
10/24/2001	58	<4.0	<0.1	NA	<1.0	<5.0	<5.0	<2.0	<0.2
11/28/2001	77	<4.0	<0.1	<1.0	<1.0	<5.0	<5.0	NA	<0.2
12/26/2001		<4	<0.1	<1	1.3	<5	<5	4.7	<0.2
1/30/2002		<4	<0.1	<1	<1	<5	<5	<2	<0.2
3/27/2002		<4.0	<0.1	<1.0	<1.0	<5.0	<5.0	2.4	<0.2
4/30/2002		<4.0	<0.1	<1.0	1.6	<5.0	<5.0	<2.0	<0.2
5/29/2002		<4.0	<0.1	<1.0	<1.0	<5.0	<5.0	<2.0	<0.2
6/19/2002		<4.0	<0.1	<1.0	<1.0	<5.0	<5.0	<2.0	<0.2
9/25/2002	78	<4.0	<0.1	<1.0	NA	<5.0	<5.0	<2.0	<0.2
10/30/2002	60	<4.0	<0.1	<1.0	1.1	<5.0	<5.0	<2.0	<0.2
11/20/2002	82	<4.0	<0.1	<1.0	<1.0	<5.0	<5.0	<2.0	<0.2
Count	16	13	13	22	22	23	23	22	12
Min	5.0	2.0	0.1	0.5	0.5	2.5	2.5	1.0	0.1
Max	83.0	2.0	0.5	0.5	1.6	2.5	2.5	4.7	0.1
Mean	62.2	2.0	0.1	0.5	0.7	2.5	2.5	1.3	0.1
Geo Mean	55.3	2.0	0.1	0.5	0.7	2.5	2.5	1.2	0.1
Median	62.5	2.0	0.1	0.5	0.5	2.5	2.5	1.0	0.1
Quartile 1	59.5	2.0	0.1	0.5	0.5	2.5	2.5	1.0	0.1
Quartile 3	76.3	2.0	0.1	0.5	1.0	2.5	2.5	1.0	0.1

NOTE: For values reported as < (less than), half the detection limit was used.

NA = Data not applicable
INA = Site was inaccessible
DRY = Site had no flow

C4: 535STC513 – Tuolumne River at Shiloh Fishing Access continued…

Date	Chloride (mg/L)	Sulfate (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	TDS (mg/L)	Carbonate (mg/L)	Bicarbonate (mg/L)	Total Alkalinity (mg/L)	Sodium (mg/L)
11/29/2000	15	8	14	6	140	<1	70	60	14
12/27/2000	15	8	15	6	110	<1	70	60	14
1/24/2001	16	9	15	6	100	<1	70	60	15
2/10/2001	15	8	15	6	97	<1	90	70	14
2/11/2001	12	6	13	5	79	<1	60	50	11
2/21/2001	6	4	7	3	68	<1	37	30	5
3/28/2001	15	8	14	6	120	<1	73	60	13
4/25/2001	8	NA	9	4	NA	<1	38	38	8
5/30/2001	24	12	20	8	NA	<1	78	78	22
6/27/2001	28	14	22	9	190	<1	110	93	25
8/29/2001	20	10	18	8	140	<1.0	93	76	20
9/26/2001	NA	NA	17	7	NA	<1	86	71	18
10/24/2001	13	8	14	6	120	<1	67	55	14
11/28/2001	20	10	18	8	170	<1	90	74	19
3/18/2003	15	8	17	7					
4/16/2003	3	3	5	2					
5/21/2003	15	9	15	7					
6/17/2003	13	7	13	6					
6/30/2003	10	6	12	5					
Count	18	17	19	19	11	14	14	14	14
Min	3	3	5	2	68	0.5	37	30	5
Max	28	14	22	9	190	0.5	110	93	25
Mean	15	8	14	6	121	0.5	74	63	15
Geo Mean	13	8	14	6	116	0.5	71	60	14
Median	15	8	15	6	120	0.5	72	60	14
Quartile 1	12	7	13	6	99	0.5	68	56	13
Quartile 3	16	9	17	7	140	0.5	89	73	19

NOTE: For values reported as < (less than), half the detection limit was used.

NA = Data not applicable
INA = Site was inaccessible
DRY = Site had no flow

C4: 535STC513 – Tuolumne River at Shiloh Fishing Access continued…

	96h Acute Fathead Minnow (% Survival)		48h Acute Ceriodaphnia Dubia (% Survival)		Algae Cell Growth		
Date	Result	Control	Result	Control	Result (million/ml)	Control (million/ml)	MDD (%)
10/26/2000	100	100	NA	NA			
10/24/2001	100	100	100	100			
11/28/2001	NA	NA	100	100			
12/26/2001	90	100	100	100			
1/30/2002	75	100	100	90			
2/27/2002	95	100	100	100			
4/30/2002	100	100	100	100			
5/29/2002	100	100	100	100			
6/19/2002	100	100	100	100			
8/28/2002	100	100	NA	NA			
9/25/2002	100	100	100	100			
10/30/2002	100	100	100	100			
11/20/2002	100	100	100	100			
12/18/2002	100	90	100	100	1.03*	3.03	NA
1/29/2003	100	100	100	100	4.44**	3.28	NA
4/16/2003	100	100	100	100	1.72	1.90	3
5/21/2003	100	100	100	100	4.50**	2.01	20
Count	16	16	15	15	4	4	2

* Significantly reduced from the lab control.
** Significantly greater than the lab control.
^ Fish were from a "forced hatch," duplicate failed QA.
[1] Duplicate sample for the set was low - 77% recovery.
[2] Testing for the Fathead minnow was initiated when samples were approx. 48h old due to untimely shipping of fish by fish supplier.
[3] Samples qualified, but duplicate sample recovery for the set was high - 126% (53.8%/42.5%)
NA = Data not applicable
INA = Site was inaccessible
DRY = Site had no flow

C4: 535STC513 – Tuolumne River at Shiloh Fishing Access continued…

	Chronic Fathead Minnow - 7day					Chronic Ceriodaphnia Dubia - 6 day				
Date	Result (% Survival)	Control (% Survival)	Avg Dry Weight Result (mg)	Avg Dry Weight Control (mg)	Growth MDD (%)	Result (% Survival)	Control (% Survival)	Avg # Young / Adult Result	Avg # Young / Adult Control	Repro MDD (%)
11/23/2004	90.0	95.0	0.22*	0.29	25					
12/29/2004	67.5*	97.5	0.41	0.54	29					
01/27/2005 [1]	97.5	100.0	0.55	0.53	19					
2/24/2005	55.3*	100.0	0.31*	0.57	28					
03/29/2005 [2]	50.0*	100.0	0.21*	0.42	26					
4/28/2005	N/A	N/A	N/A	N/A	N/A					
5/26/2005	77.5*	97.5	0.37*	0.51	13					
6/30/2005	76.9*	97.5	0.29*	0.45	18					
7/28/2005	N/A	N/A	N/A	N/A	N/A					
8/25/2005	89.7	100.0	0.52*	0.63	9.4					
9/29/2005	77.5*	100.0	0.34	0.43	33					
Count	9	9	9	9	9	N/A	N/A	N/A	N/A	N/A

* Significantly reduced from the lab control.
** Significantly greater than the lab control.
^ Fish were from a "forced hatch," duplicate failed QA.
[1] Duplicate sample for the set was low - 77% recovery.
[2] Testing for the Fathead minnow was initiated when samples were approx. 48h old due to untimely shipping of fish by fish supplier.
[3] Samples qualified, but duplicate sample recovery for the set was high - 126% (53.8%/42.5%)
NA = Data not applicable
INA = Site was inaccessible
DRY = Site had no flow

C5: 535STC514 – Stanislaus River at Caswell Park

Station Code: 535STC514

Location: Latitude 37.70250, Longitude -121.17722

Date	Time	Temp (ºC)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
11/29/2000	8:10 AM	10.2	122	7.4		
12/27/2000	1:00 PM	9.1	130	9.0		
1/24/2001	12:35 PM	10.4	144	7.3		
2/21/2001	2:00 PM	13.8	143	8.8		
3/28/2001	8:55 AM	16.6	145	7.1		
4/25/2001	7:38 AM	14.7	68	7.2		
5/30/2001	8:20 AM	18.6	78	7.1		
6/27/2001	8:03 AM	19.7	79	8.2	9.1	
7/25/2001	8:22 AM	21.9	88	7.8	8.3	
8/29/2001	8:32 AM	21.4	88	7.7	NA	
9/26/2001	8:09 AM	18.8	91	7.5	8.8	
10/24/2001	8:53 AM	13.8	64	7.1	9.9	
11/28/2001	8:20 AM	9.9	108	7.7	10.3	
12/26/2001	9:05 AM	10.3	141	7.6	10.1	
1/30/2002	8:59 AM	7.3	152	7.8	11.4	
2/27/2002	8:02 AM	13.0	119	8.3	9.7	
3/27/2002	7:51 AM	13.6	102	8.2	10.0	
4/30/2002	8:55 AM	12.7	105	7.3	11.1	
5/29/2002	8:04 AM	17.1	71	7.7	9.7	
6/19/2002	8:10 AM	20.4	82	7.6	7.9	
7/31/2002	7:57 AM	21.7	98	7.7	7.8	5.0
8/28/2002	8:45 AM	21.1	99	7.7	NA	
9/25/2002	8:36 AM	20.2	113	7.5	8.1	
10/30/2002	8:07 AM	12.8	88	6.6	9.7	
11/20/2002	8:25 AM	11.7	111	7.6	10.5	
12/18/2002	8:10 AM	10.8	164	7.5	9.1	52.3
1/29/2003	8:31 AM	11.3	91	7.6	10.8	14.3
3/25/2003	8:00 AM	14.1	100	7.5	10.3	6.2
1/28/2004	11:13 AM	10.5	140	8.1	15.1	5.1
2/24/2004	11:53 AM	12.5	112	7.9	10.8	0.8
3/24/2004	10:07 AM	16.6	125	7.8	9.1	17.5
4/28/2004	10:11 AM	15.9	68	7.8	11.4	9.0
5/26/2004	12:11 PM	18.9	84	7.8	9.3	5.3
6/23/2004	10:58 AM	17.4	60	7.9	10.0	NA
7/28/2004	11:45 AM	22.7	84	8.1	9.8	NA
8/25/2004	11:59 AM	21.6	91	8.1	8.1	NA
9/29/2004	12:15 PM	18.7	116	8.2	9.1	NA
10/27/2004	11:47 AM	13.3	65	8.6	12.1	

C5: 535STC514 – Stanislaus River at Caswell Park continued…

Date	Time	Temp (ºC)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
11/22/2004	12:16 PM	10.1	119	8.2	11.2	
12/28/2004	10:35 AM	9.8	124	8.0	11.5	
1/26/2005	11:12 AM	11.2	166	7.9	9.9	
2/23/2005	10:25 AM	13.5	183	7.9	9.6	
3/29/2005	11:46 AM	13.6	144	7.9	11.2	
4/26/2005	11:40 AM	16.7	118	7.9	10.4	
5/24/2005	10:42 AM	15.5	78	7.9	10.0	
6/28/2005	10:56 AM	21.1	106	7.7	8.4	
7/26/2005	10:53 AM	23.8	101	7.8	8.5	
8/23/2005	10:55 AM	21.9	103	7.6	8.0	
9/27/2005	11:46 AM	18.2	138	8.1	13.1	
Count		49	49	49	40	9
Min		7.3	60	6.6	7.8	0.8
Max		23.8	183	9.0	15.1	52.3
Mean		15.5	108	7.8	10.0	12.8
Geo Mean		14.9	104	7.8	9.9	8
Median		14.7	105	7.8	9.9	6.2
Quartile 1		11.7	88	7.6	9.1	5.1
Quartile 3		18.9	125	8.0	10.8	14.3

NOTE: For values reported as < (less than), half the detection limit was used.

NA = Data not applicable
INA = Site was inaccessible
DRY = Site had no flow

C5: 535STC514 – Stanislaus River at Caswell Park continued…

Date	TSS (mg/L)	TOC (mg/L)	Total Coli MPN	*E. coli* MPN
11/29/2000	NA	<1		
12/27/2000	<6	1.2		
1/24/2001	<6	<1		
2/21/2001	<5.5	NA		
3/28/2001	16	NA		
4/25/2001	15	1.3		
5/30/2001	11	3.3		
6/27/2001	11	4.3		
7/25/2001		1.2		
8/29/2001	NA	3.0		
9/26/2001	NA	6.1		
11/28/2001		NA		
12/26/2001		3.0		
3/27/2002		NA		
4/30/2002		NA		
5/29/2002		1.7		
6/19/2002		NA		
7/31/2002			2420	65
8/28/2002		NA		
9/25/2002		NA		
10/30/2002		1.2		
11/20/2002		2.0		
12/18/2002		7.0		
1/28/2004			411	88
2/24/2004			866	30
3/24/2004			>2419.6	69
4/28/2004			1986	108
5/26/2004			1986	101
6/23/2004			>2419.6	218
7/28/2004			>2419.6	62
8/25/2004			2420	36
9/29/2004			>2419.6	51
10/27/2004		1.9	>2419.6	299
11/22/2004		1.6	1203	41
12/28/2004		2.0	>2419.6	308
1/26/2005		2.9	1300	35
2/23/2005		5.5	629	88
3/29/2005		3.4	>2419.6	135
4/26/2005		NA	>2419.6	82
5/24/2005		NA	1203	77

C5: 535STC514 – Stanislaus River at Caswell Park continued…

Date	TSS (mg/L)	TOC (mg/L)	Total Coli MPN	*E. coli* MPN
6/28/2005		2.1	>2419.6	41
7/26/2005		NA	>2419.6	75
8/23/2005		2.3	>2419.6	50
9/27/2005		3.1	>2419.6	99
Count	7	23	22	22
Min	2.8	0.5	411	30
Max	16	7.0	2420	308
Mean	9	2.7	NA	NA
Geo Mean	7	2.2	1796	78
Median	11	2.1	2420	76
Quartile 1	3	1.5	1472	50
Quartile 3	13	3.2	2420	101

NOTE: For values reported as < (less than), half the detection limit was used
For values reported as > (greater than), 2420 was used

NA = Data not applicable
INA = Site was inaccessible
DRY = Site had no flow

C5: 535STC514 – Stanislaus River at Caswell Park continued…

Date	Nitrate (mg/L)	Nitrate-N (mg/L)	TKN (mg/L)	Ammonia-N (mg/L)	Phosphorus (mg/L)	Ortho-phosphate-P (mg/L)	Potassium (mg/L)	BOD 5-Day (mg/L)	BOD 10-Day (mg/L)
11/29/2000	3.2		NA		<0.1	<1	1.4	0.2	0.6
12/27/2000	3.3		<2		<0.1	<1	1.8		
1/24/2001	3.7		<2		<0.1	<1	1.9	0.8	1.2
2/21/2001	3.7		<2		0.1	<1	2.3	0.9	1.7
3/28/2001	3.2		<2		<0.1	<1	1.7	1	1.4
4/25/2001	<2		<2		0.1	<1	1	0.4	0.8
5/30/2001	<2		<2		0.1	<1	1.2	0.7	0.9
6/27/2001	<2		<2		<0.1	<1	1.2	0.4	0.4
8/29/2001	<2		<2		<0.1	<1	NA		
9/26/2001	<2		<2		<0.1	<1	1.8		
10/24/2001	<2		<2		<0.1	<1	<1	0.5	0.7
11/28/2001	NA		0.1		NA	<0.03	1.8	0.4	0.8
12/26/2001								1.1	2.3
1/30/2002								0.5	0.9
2/27/2002								0.5	0.8
3/27/2002								0.6	0.9
4/30/2002								0.5	0.9
5/29/2002								0.3	0.8
6/19/2002								0.6	0.9
8/28/2002								0.2	0.7
9/25/2002								0.6	1
10/30/2002								0.3	0.4
12/18/2002								6.2	8.8
1/29/2003								0.7	1

C5: 535STC514 – Stanislaus River at Caswell Park continued…

Date	Nitrate (mg/L)	Nitrate-N (mg/L)	TKN (mg/L)	Ammonia-N (mg/L)	Phosphorus (mg/L)	Ortho-phosphate-P (mg/L)	Potassium (mg/L)	BOD 5-Day (mg/L)	BOD 10-Day (mg/L)
Count	11	NA	11	NA	11	12	11	21	21
Min	1	NA	0.1	NA	0.1	0.0	0.5	0.2	0.4
Max	3.7	NA	1.0	NA	0.1	0.5	2.3	6.2	8.8
Mean	2.1	NA	0.9	NA	0.1	0.5	1.5	0.8	1.3
Geo Mean	1.7	NA	0.8	NA	0.1	0.4	1.4	0.6	1.0
Median	1.0	NA	1.0	NA	0.1	0.5	1.7	0.5	0.9
Quartile 1	1.0	NA	1.0	NA	0.1	0.5	1.2	0.4	0.8
Quartile 3	3.3	NA	1.0	NA	0.1	0.5	1.8	0.7	1.0

NOTE: For values reported as < (less than), half the detection limit was used.

NA = Data not applicable
INA = Site was inaccessible
DRY = Site had no flow

C5: 535STC514 – Stanislaus River at Caswell Park continued…

Date	Hardness (mg/L)	Total Arsenic (ug/L)	Total Cadmium (ug/L)	Total Chromium (ug/L)	Total Copper (ug/L)	Total Lead (ug/L)	Total Nickel (ug/L)	Total Zinc (ug/L)	Total Mercury (ug/L)
11/29/2000	47			<1	1.1	<5	<5	2.1	
12/27/2000	50			<1	3.0	<5	<5	2.6	
1/24/2001	54			<1	1.3	<5	<5	<2	
2/21/2001	55			<1	2.0	<5	<5	4.3	
3/28/2001	55			<1	2.8	<5	<5	3.6	
4/25/2001	29			<1	1.7	<5	<5	<2	
5/30/2001	31			<1	1.7	<5	<5	<2	
7/25/2001				<1	1.2	<5	<5	<2	
8/29/2001	NA	<2	<1	<1	<1	<5	<5	<2	
9/26/2001	35	<4	<0.1	<1	2.4	<5	<5	<2	<0.2
10/24/2001	26	<4.0	<0.1	NA	<1.0	<5.0	<5.0	2.1	<0.2
11/28/2001	41	<4.0	<0.1	<1.0	<1.0	<5.0	<5.0	3.1	<0.2
12/26/2001		<4	<0.1	<1	2.2	<5	<5	6.5	<0.2
1/30/2002		<4	<0.1	<1	<1	<5	<5	<2	<0.2
3/27/2002		<4.0	<0.1	<1.0	2.3	<5.0	<5.0	5.0	<0.2
4/30/2002		<4.0	<0.1	<1.0	<1.0	<5.0	<5.0	<2.0	<0.2
5/29/2002		<4.0	<0.1	<1.0	NA	<5.0	<5.0	<2.0	<0.2
6/19/2002		<4.0	<0.1	<1.0	1.3	<5.0	<5.0	<2.0	<0.2
9/25/2002	41	<4.0	<0.1	<1.0	NA	<5.0	<5.0	2.3	<0.2
10/30/2002	36	<4.0	<0.1	<1.0	NA	<5.0	<5.0	<2.0	<0.2
11/20/2002	46	<4.0	<0.1	<1.0	1.4	<5.0	NA	NA	<0.2
Count	13	13	13	20	18	21	20	20	12
Min	26.0	1.0	0.1	0.5	0.5	2.5	2.5	1.0	0.1
Max	55.0	2.0	0.5	0.5	3.0	2.5	2.5	6.5	0.1
Mean	42.0	1.9	0.1	0.5	1.5	2.5	2.5	2.1	0.1
Geo Mean	40.8	1.9	0.1	0.5	1.3	2.5	2.5	1.7	0.1
Median	41.0	2.0	0.1	0.5	1.4	2.5	2.5	1.0	0.1
Quartile 1	35.0	2.0	0.1	0.5	0.7	2.5	2.5	1.0	0.1
Quartile 3	50.0	2.0	0.1	0.5	2.2	2.5	2.5	2.7	0.1

NOTE: For values reported as < (less than), half the detection limit was used.

NA = Data not applicable
INA = Site was inaccessible
DRY = Site had no flow

C5: 535STC514 – Stanislaus River at Caswell Park continued…

Date	Hardness (mg/L)	Dissolved Arsenic (ug/L)	Dissolved Cadmium (ug/L)	Dissolved Chromium (ug/L)	Dissolved Copper (ug/L)	Dissolved Lead (ug/L)	Dissolved Nickel (ug/L)	Dissolved Zinc (ug/L)	Dissolved Mercury (ug/L)
11/29/2000	47			<1	<1	<5	<5	5.9	
12/27/2000	50			<1	<1	<5	<5	<2	
1/24/2001	54			<1	<1	<5	<5	<2	
2/21/2001	55			<1	1.3	<5	<5	2.4	
3/28/2001	55			<1	1.2	<5	<5	2.0	
4/25/2001	29			<1	<1	<5	<5	2.2	
5/30/2001	31			<1	<1	<5	<5	3.9	
8/29/2001	NA	<2	<1	<1	<1	<5	<5	<2	
9/26/2001	35	<4	<0.1	<1	1.4	<5	<5	<2	<0.2
10/24/2001	26	<4.0	<0.1	NA	<1.0	<5.0	<5.0	<2.0	<0.2
11/28/2001	41	<4.0	<0.1	<1.0	<1.0	<5.0	<5.0	NA	<0.2
12/26/2001		<4	<0.1	<1	1.4	<5	<5	6.1	<0.2
1/30/2002		<4	<0.1	<1	<1	<5	<5	<2	<0.2
3/27/2002		<4.0	<0.1	<1.0	<1.0	<5.0	<5.0	3.7	<0.2
4/30/2002		<4.0	<0.1	<1.0	<1.0	<5.0	<5.0	<2.0	<0.2
5/29/2002		<4.0	<0.1	<1.0	<1.0	<5.0	<5.0	<2.0	<0.2
6/19/2002		<4.0	<0.1	<1.0	<1.0	<5.0	<5.0	<2.0	<0.2
9/25/2002	41	<4.0	<0.1	<1.0	NA	<5.0	<5.0	<2.0	<0.2
10/30/2002	36	<4.0	<0.1	<1.0	2.1	<5.0	<5.0	<2.0	<0.2
11/20/2002	46	<4.0	<0.1	<1.0	<1.0	<5.0	<5.0	<2.0	<0.2
Count	13	13	13	19	19	20	20	19	12
Min	26.0	1.0	0.1	0.5	0.5	2.5	2.5	1.0	0.1
Max	55.0	2.0	0.5	0.5	2.1	2.5	2.5	6.1	0.1
Mean	42.0	1.9	0.1	0.5	0.8	2.5	2.5	2.0	0.1
Geo Mean	40.8	1.9	0.1	0.5	0.7	2.5	2.5	1.6	0.1
Median	41.0	2.0	0.1	0.5	0.5	2.5	2.5	1.0	0.1
Quartile 1	35.0	2.0	0.1	0.5	0.5	2.5	2.5	1.0	0.1
Quartile 3	50.0	2.0	0.1	0.5	0.9	2.5	2.5	2.3	0.1

NOTE: For values reported as < (less than), half the detection limit was used.

NA = Data not applicable
INA = Site was inaccessible
DRY = Site had no flow

C5: 535STC514 – Stanislaus River at Caswell Park continued…

Date	Chloride (mg/L)	Sulfate (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	TDS (mg/L)	Carbonate (mg/L)	Bicarbonate (mg/L)	Total Alkalinity (mg/L)	Sodium (mg/L)
11/29/2000	5	6	11	5	100	<1	60	50	6
12/27/2000	6	7	12	5	75	<1	60	50	6
1/24/2001	7	7	13	5	75	<1	70	55	8
2/21/2001	6	7	13	6	120	<1	66	54	7
3/28/2001	6	7	12	6	87	<1	67	55	7
4/25/2001	2	NA	7	3	NA	<1	30	30	3
5/30/2001	2	3	8	3	NA	<1	32	32	3
6/27/2001	3	3	8	3	59	<1	41	34	4
8/29/2001	3	NA	NA	NA	48	<1.0	110	86	4
9/26/2001	NA	NA	9	3	NA	<1	43	35	4
10/24/2001	2	3	7	2	42	<1	33	27	3
11/28/2001	4	4	10	4	52	<1	51	42	5
Count	11	9	11	11	9	12	12	12	12
Min	2	3	7	2	42	0.5	30	27	3
Max	7	7	13	6	120	0.5	110	86	8
Mean	4	5	10	4	73	0.5	55	46	5
Geo Mean	4	5	10	4	69	0.5	52	43	5
Median	4	6	10	4	75	0.5	56	46	5
Quartile 1	3	3	8	3	52	0.5	39	34	4
Quartile 3	6	7	12	5	87	0.5	66	54	6

NOTE: For values reported as < (less than), half the detection limit was used.

NA = Data not applicable
INA = Site was inaccessible
DRY = Site had no flow

C5: 535STC514 – Stanislaus River at Caswell Park continued…

Date	96h Acute Fathead Minnow (% Survival)		48h Acute Ceriodaphnia Dubia (% Survival)		Algae Cell Growth		
	Result	Control	Result	Control	Result (million/ml)	Control (million/ml)	MDD (%)
10/26/2000	100	100	NA	NA			
1/24/2001	100	100	NA	NA			
10/24/2001	100	100	100	100			
11/28/2001	NA	NA	100	100			
12/26/2001	100	100	100	100			
1/30/2002	100	100	100	90			
2/27/2002	100	100	100	100			
4/30/2002	100	100	100	100			
5/29/2002	100	100	100	100			
6/19/2002	100	100	100	100			
8/28/2002	100	100	NA	NA			
9/25/2002	100	100	100	100			
10/30/2002	100	100	100	100			
11/20/2002	100	100	100	100			
12/18/2002	100	90	100	100	3.19**	3.03	N/A
1/19/2002	100	100	100	100	1.69*	3.28	N/A
4/16/2003	100	100	100	100	1.68	1.90	4
5/21/2003	100	100	100	100	1.51*	2.01	6
Count	17	17	15	15	4	4	N/A

* Significantly reduced from the lab control.

** Significantly greater than the lab control.

^ Fish were from a "forced hatch," duplicate failed QA.

[1] Duplicate sample for the set was low - 77% recovery.

[2] Testing for the Fathead minnow was initiated when samples were approx. 48h old due to untimely shipping of fish by fish supplier.

[3] Samples qualified, but duplicate sample recovery for the set was high - 126% (53.8%/42.5%)

NA = Data not applicable

INA = Site was inaccessible

DRY = Site had no flow

C5: 535STC514 – Stanislaus River at Caswell Park continued…

	Chronic Fathead Minnow - 7day					Chronic Ceriodaphnia Dubia - 6 day				
Date	Result (% Survival)	Control (% Survival)	Avg Dry Weight Result (mg)	Avg Dry Weight Control (mg)	Growth MDD (%)	Result (% Survival)	Control (% Survival)	Avg # Young / Adult Result	Avg # Young / Adult Control	Repro MDD (%)
11/22/2004	60.0*	97.5	0.14*	0.27	21					
12/28/2004	97.5	100.0	0.6	0.6	N/A					
1/26/2005	87.5	97.5	0.49	0.46	30					
2/23/2005	89.7	100.0	0.59	0.57	30					
03/29/2005 [2]	97.5	100.0	0.49	0.42	15					
4/26/2005	50.0*	92.5	0.21*	0.39	28					
5/24/2005	85.4	87.5	0.55	0.49	26					
6/28/2005	N/A	N/A	N/A	N/A	N/A					
7/26/2005	N/A	N/A	N/A	N/A	N/A					
8/23/2005	82.5*	100.0	0.49*	0.77	11					
9/27/2005	97.5	97.5	0.42	0.45	16					
Count	9	9	9	9	8	N/A	N/A	N/A	N/A	N/A

* Significantly reduced from the lab control.
** Significantly greater than the lab control.
^ Fish were from a "forced hatch," duplicate failed QA.
[1] Duplicate sample for the set was low - 77% recovery.
[2] Testing for the Fathead minnow was initiated when samples were approx. 48h old due to untimely shipping of fish by fish supplier.
[3] Samples qualified, but duplicate sample recovery for the set was high - 126% (53.8%/42.5%)
NA = Data not applicable
INA = Site was inaccessible
DRY = Site had no flow

C6: 531SJC503 – Lone Tree Creek at Austin Road

Station Code: 531SJC503

Location: Latitude 37.85556, Longitude -121.18500

Date	Time	Temp (ºC)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
10/24/2000	10:00 AM	11.2	293	7.2		
11/29/2000	7:15 AM	8.3	295	5.4		
12/27/2000	8:45 AM	5.5	340	7.7		
1/24/2001	8:15 AM	7.6	302	8.8		
2/10/2001	3:15 PM	11.2	275	8.6		
2/11/2001	3:45 AM	7.0	331	7.8		
2/21/2001	9:00 AM	10.6	304	8.8		
3/28/2001	8:05 AM	14.5	69	6.6		
4/25/2001	7:10 AM	17.2	90	7.3		
5/30/2001	7:30 AM	19.0	113	7.4		
6/27/2001	7:30 AM	20.6	174	7.4	7.6	
7/25/2001	7:52 AM	22.5	149	7.7	5.6	
8/29/2001	7:35 AM	20.8	105	7.5	NA	
9/26/2001	7:34 AM	18.2	225	6.5	8.2	
10/24/2001	8:11 AM	11.1	321	6.9	8.1	
11/28/2001	7:40 AM	7.7	266	7.6	9.4	
12/26/2001	8:32 AM	8.9	287	7.5	9.2	
1/30/2002	8:14 AM	1.9	605	7.9	10.4	
2/27/2002	7:30 AM	11.0	518	8.9	4.6	
3/27/2002	7:24 AM	12.5	324	8.1	9.1	
4/30/2002	8:27 AM	13.5	124	6.9	10.3	
5/29/2002	7:32 AM	18.9	143	7.4	7.3	
6/19/2002	7:38 AM	20.7	155	7.5	6.9	
7/31/2002	8:52 AM	20.8	129	7.6	6.6	38.8
8/28/2002	8:15 AM	20.8	140	7.1	NA	
9/25/2002	8:02 AM	18.0	119	7.3	7.6	
10/30/2002	7:27 AM	DRY	DRY	DRY	DRY	
11/20/2002	7:45 AM	9.1	379	7.4	6.3	
12/18/2002	7:39 AM	9.4	392	7.4	7.9	288
1/29/2003	7:56 AM	8.9	404	7.4	6.1	52.5
1/28/2004	11:44 AM	DRY	DRY	DRY	DRY	DRY
2/24/2004	12:30 PM	16.0	461	7.8	9.8	NA
3/24/2004	10:31 AM	15.5	119	7.6	9.9	50.1
4/28/2004	10:39 AM	18.8	113	7.6	10.8	50.2
5/26/2004	12:41 PM	21.0	174	7.9	10.0	63.0
6/23/2004	12:13 PM	23.8	128	8.4	10.9	NA
7/28/2004	12:10 PM	24.2	139	7.8	8.7	NA
8/25/2004	12:33 PM	21.2	92	7.6	8.1	NA
9/29/2004	12:48 PM	19.0	138	7.8	8.5	NA

C6: 531SJC503 – Lone Tree Creek at Austin Road continued…

Date	Time	Temp (ºC)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
10/27/2004	12:22 PM	13.3	592	7.5	0.4	
11/22/2004	1:08 PM	8.5	500	7.8	10.1	
12/28/2004	11:10 AM	9.3	411	7.5	8.1	
1/26/2005	11:45 AM	11.0	313	7.8	8.9	
2/23/2005	10:58 AM	13.6	520	7.7	7.4	
3/29/2005	12:40 PM	14.7	375	7.7	8.8	
4/26/2005	12:49 PM	17.8	260	7.7	9.5	
5/24/2005	11:18 AM	20.2	127	7.6	9.1	
6/28/2005	11:38 AM	21.0	146	7.6	8.1	
7/26/2005	11:31 AM	23.3	214	7.5	7.7	
8/23/2005	11:37 AM	21.9	156	7.3	7.6	
9/27/2005	12:29 PM	18.6	113	7.7	11.4	
Count		49	49	49	37	6
Min		1.9	69	5.4	0.4	38.8
Max		24.2	605	8.9	11.4	288
Mean		15.1	254	7.6	8.2	90.4
Geo Mean		13.8	217	7.6	7.7	67.3
Median		15.5	225	7.6	8.2	51.4
Quartile 1		10.6	129	7.4	7.6	50.1
Quartile 3		20.6	331	7.8	9.5	60.4

NOTE: For values reported as < (less than), half the detection limit was used.

NA = Data not applicable
INA = Site was inaccessible
DRY = Site had no flow

C6: 531SJC503 – Lone Tree Creek at Austin Road continued…

Date	TSS (mg/L)	TOC (mg/L)	Total Coli MPN	*E. coli* MPN
10/24/2000	9	12		
11/29/2000	NA	12		
12/27/2000	6			
1/24/2001	17	23		
2/10/2001	52	23		
2/11/2001	22	21		
2/21/2001	130	NA		
3/28/2001	31	NA		
4/25/2001	20	2.8		
5/30/2001	24	6.0		
6/27/2001	58	6.2		
7/25/2001		8.8		
8/29/2001	NA	6.7		
9/26/2001	NA	17		
11/28/2001		NA		
12/26/2001		28		
3/27/2002		NA		
4/30/2002		NA		
5/29/2002		6.4		
6/19/2002		NA		
7/31/2002			>2419.6	411
9/25/2002		NA		
11/20/2002		17		
1/28/2004			DRY	DRY
2/24/2004			>2419.6	435
3/24/2004			>2419.6	816
4/28/2004			>2419.6	613
5/26/2004			>2419.6	272
6/23/2004			>2419.6	153
7/28/2004			>2419.6	144
8/25/2004			>2419.6	161
9/29/2004			>2419.6	1733
10/27/2004		52	>2419.6	>2419.6
11/22/2004		40	>2419.6	980
12/28/2004		19	>2419.6	82
1/26/2005		22	>2419.6	238
2/23/2005		67	>2419.6	219
3/29/2005		30	>2419.6	816
4/26/2005		NA	>2419.6	579
5/24/2005		NA	1011	525

C6: 531SJC503 – Lone Tree Creek at Austin Road continued…

Date	TSS (mg/L)	TOC (mg/L)	Total Coli MPN	*E. coli* MPN
6/28/2005		5.3	>2419.6	2420
7/26/2005		NA	>2419.6	980
8/23/2005		7.3	>2419.6	308
9/27/2005		5.6	>2419.6	435
Count	10	23	21	21
Min	6	2.8	1011	82
Max	130	67	2420	2420
Mean	37	19	NA	NA
Geo Mean	26	14	2321	468
Median	23	17	2420	435
Quartile 1	18	6.6	2420	238
Quartile 3	47	23	2420	816

NOTE: For values reported as < (less than), half the detection limit was used
For values reported as > (greater than), 2420 was used

NA = Data not applicable
INA = Site was inaccessible
DRY = Site had no flow

C6: 531SJC503 – Lone Tree Creek at Austin Road continued…

Date	Nitrate (mg/L)	Nitrate-N (mg/L)	TKN (mg/L)	Ammonia-N (mg/L)	Phosphorus (mg/L)	Ortho-phosphate-P (mg/L)	Potassium (mg/L)	BOD 5-Day (mg/L)	BOD 10-Day (mg/L)
10/24/2000	3.6		2.1		1.1	1.3	16	2.4	5.4
11/29/2000	3.9		NA		0.5	1.2	23	7.1	13.5
12/27/2000	2.1		<2		1.0	1.8	21	3.0	6.2
1/24/2001	10		3.3		0.7	1.4	25	6.0	11.7
2/10/2001	7.3		<2		0.3	<1	24	7.9	15.0
2/11/2001	10		3.2		1.0	1	28		
2/21/2001	6.3		8.7		1.1	2.1	31	8.3	16.8
3/28/2001	<2		<2		0.2	<1	2.4	1.5	2.2
4/25/2001	<2		<2		0.3	<1	3.7	2.0	3.5
5/30/2001	3.4		<2		0.3	<1	3.4	2.4	3.5
6/27/2001	7.4		<2		0.5	<1	6.0	2.8	4.8
8/29/2001	2.8		<2		0.6	<1	NA		
9/26/2001	3.4		5.5		0.8	<1	13		
10/24/2001	4.6		<2		0.9	<1	14	2.3	5.5
11/28/2001	NA		4.3		NA	1.3	30	7.9	16.1
12/26/2001	NA		4.4		2.0	1.5	33	8.1	16.3
1/30/2002	NA		12		4.5	2.7	53	8.2	16.4
2/27/2002	NA		5.2		2.0	1.2	NA	8.2	16.5
3/27/2002	NA		1.2		NA	0.2	5.6	1.8	2.8
4/30/2002	NA		NA		0.6	0.5	NA	8.2	13.3
5/29/2002	NA		1.5		NA	0.6	6.8	5.6	8.0
6/19/2002	NA		1.1		0.5	NA	5.9	3.3	5.2
8/28/2002	NA		0.7		0.9	0.8	4.8	1.3	2.4
9/25/2002	NA		NA		0.4	0.4	4.9	2.6	3.9
11/20/2002	NA		5.6		1.8	1.2	29		
12/18/2002	NA		17		4.4	<0.03	42	8.1	16.5
1/29/2003	NA		NA		4.8	2.8	36	7.7	16.1

C6: 531SJC503 – Lone Tree Creek at Austin Road continued…

Date	Nitrate (mg/L)	Nitrate-N (mg/L)	TKN (mg/L)	Ammonia-N (mg/L)	Phosphorus (mg/L)	Ortho-phosphate-P (mg/L)	Potassium (mg/L)	BOD 5-Day (mg/L)	BOD 10-Day (mg/L)
Count	14	NA	23	NA	24	26	24	23	23
Min	1.0	NA	0.7	NA	0.2	0.02	2.4	1.3	2.2
Max	10.0	NA	17.0	NA	4.8	2.8	53.0	8.3	16.8
Mean	4.8	NA	3.6	NA	1.3	1.0	19.2	5.1	9.6
Geo Mean	3.8	NA	2.3	NA	0.9	0.7	13.6	4.2	7.7
Median	3.8	NA	1.5	NA	0.9	0.7	18.5	5.6	8.0
Quartile 1	3.0	NA	1.0	NA	0.5	0.5	5.8	2.4	4.4
Quartile 3	7.1	NA	4.8	NA	1.3	1.3	29.3	8.0	16.1

NOTE: For values reported as < (less than), half the detection limit was used.

NA = Data not applicable
INA = Site was inaccessible
DRY = Site had no flow

C6: 531SJC503 – Lone Tree Creek at Austin Road continued…

Date	Hardness (mg/L)	Total Arsenic (ug/L)	Total Cadmium (ug/L)	Total Chromium (ug/L)	Total Copper (ug/L)	Total Lead (ug/L)	Total Nickel (ug/L)	Total Zinc (ug/L)	Total Mercury (ug/L)
10/24/2000	110			2.1	7.9	<5	<5	6.8	
11/29/2000	84			1.6	29	<5	<5	8.3	
12/27/2000	110			<1	11	<5	<5	5.5	
1/24/2001	76			2.0	22	<5	5.7	11	
2/10/2001	79			3.8	24	<5	8	16	
2/11/2001	100			1.6	19	<5	5.5	9.6	
2/21/2001	82			4.4	37	<5	7.1	44	
3/28/2001	28			1.2	4.2	<5	<5	7.5	
4/25/2001	36			<1	4.2	<5	<5	5.8	
5/30/2001	44			<1	3.2	<5	<5	6.7	
7/25/2001				<1	5.8	<5	<5	4.3	
8/29/2001	45	<2	<1	2.8	6.2	<5	<5	13	
9/26/2001	61	<4	<0.1	3.1	35	<5	<5	23	<0.2
10/24/2001	120	<4.0	<0.1	NA	7.6	<5.0	<5.0	2.5	<0.2
11/28/2001	71	<4.0	<0.1	4.5	16	<5.0	8.3	21	<0.2
12/26/2001	72	<4	<0.1	3.4	27	<5	6.7	24	<0.2
1/30/2002	160	<4	0.1	<1	31	<5	7.9	24	<0.2
3/27/2002	130	<4.0	<0.1	2.4	4.4	<5.0	9.5	12	<0.2
4/30/2002	47	<4.0	<0.1	<1.0	3.4	<5.0	<5.0	5.6	<0.2
5/29/2002	54	<4.0	<0.1	2.0	NA	<5.0	<5.0	13	<0.2
6/19/2002	63	<4.0	<0.1	1.7	5.6	<5.0	<5.0	8.4	<0.2
9/25/2002	44	<4.0	<0.1	1.7	NA	<5.0	<5.0	8.1	<0.2
11/20/2002	120	<4.0	<0.1	1.9	11	<5.0	NA	NA	<0.2

C6: 531SJC503 – Lone Tree Creek at Austin Road continued…

Date	Hardness (mg/L)	Total Arsenic (ug/L)	Total Cadmium (ug/L)	Total Chromium (ug/L)	Total Copper (ug/L)	Total Lead (ug/L)	Total Nickel (ug/L)	Total Zinc (ug/L)	Total Mercury (ug/L)
Count	22	12	12	22	21	23	22	22	11
Min	28	1.0	0.1	0.5	3.2	2.5	2.5	2.5	0.1
Max	160	2.0	0.5	4.5	37.0	2.5	9.5	44.0	0.1
Mean	79	1.9	0.1	2.0	15.0	2.5	4.3	12.7	0.1
Geo Mean	72	1.9	0.1	1.5	10.9	2.5	3.7	10.2	0.1
Median	74	2.0	0.1	1.8	11.0	2.5	2.5	9.0	0.1
Quartile 1	49	2.0	0.1	0.7	5.6	2.5	2.5	6.7	0.1
Quartile 3	108	2.0	0.1	2.7	24.0	2.5	6.5	15.3	0.1

NOTE: For values reported as < (less than), half the detection limit was used.

NA = Data not applicable
INA = Site was inaccessible
DRY = Site had no flow

C6: 531SJC503 – Lone Tree Creek at Austin Road continued…

Date	Hardness (mg/L)	Dissolved Arsenic (ug/L)	Dissolved Cadmium (ug/L)	Dissolved Chromium (ug/L)	Dissolved Copper (ug/L)	Dissolved Lead (ug/L)	Dissolved Nickel (ug/L)	Dissolved Zinc (ug/L)	Dissolved Mercury (ug/L)
10/24/2000	110								
11/29/2000	84			<1	24	<5	<5	2.5	
12/27/2000	110			<1	9.9	<5	<5	2.5	
1/24/2001	76			<1	17	<5	5.1	4.9	
2/10/2001	79			<1	18	<5	5.4	5.3	
2/11/2001	100			<1	16	<5	<5	4.4	
2/21/2001	82			1.3	15	<5	<5	14	
3/28/2001	28			<1	2.0	<5	<5	2.5	
4/25/2001	36			<1	2.1	<5	<5	3.8	
5/30/2001	44			<1	2.0	<5	<5	3.8	
7/25/2001									
8/29/2001	45	<2	<1	<1	4.1	<5	<5	6.9	
9/26/2001	61	<4	<0.1	<1	13	<5	<5	22	
10/24/2001	120	<4.0	<0.1	NA	6.9	<5.0	<5.0	<2.0	<0.2
11/28/2001	71	<4.0	<0.1	<1.0	9.4	<5.0	5.6	NA	<0.2
12/26/2001	72	<4	<0.1	<1	15	<5	<5	13	<0.2
1/30/2002	160	<4	<0.1	<1	16	<5	<5	8.8	<0.2
3/27/2002	130	<4.0	<0.1	<1.0	2.6	<5.0	<5.0	4.8	<0.2
4/30/2002	47	<4.0	<0.1	<1.0	2.1	<5.0	<5.0	3.9	<0.2
5/29/2002	54	<4.0	<0.1	<1.0	3.5	<5.0	<5.0	4.1	<0.2
6/19/2002	63	<4.0	<0.1	<1.0	2.7	<5.0	<5.0	4.4	<0.2
9/25/2002	44	<4.0	<0.1	<1.0	NA	<5.0	<5.0	<2.0	<0.2
11/20/2002	120	<4.0	<0.1	<1.0	7.5	<5.0	6.2	7.0	<0.2
Count	22	12	12	20	20	21	21	20	10
Min	28	1.0	0.1	0.5	2.0	2.5	2.5	1.0	0.1
Max	160	2.0	0.5	1.3	24.0	2.5	6.2	22.0	0.1
Mean	79	1.9	0.1	0.5	9.4	2.5	3.086	6.0	0.1
Geo Mean	72	1.9	0.1	0.5	6.8	2.5	2.911	4.6	0.1
Median	74	2.0	0.1	0.5	8.5	2.5	2.5	4.4	0.1
Quartile 1	49	2.0	0.1	0.5	2.7	2.5	2.5	3.5	0.1
Quartile 3	108	2.0	0.1	0.5	15.3	2.5	2.5	6.9	0.1

NOTE: For values reported as < (less than), half the detection limit was used.

NA = Data not applicable
INA = Site was inaccessible
DRY = Site had no flow

C6: 531SJC503 – Lone Tree Creek at Austin Road continued…

Date	Chloride (mg/L)	Sulfate (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	TDS (mg/L)	Carbonate (mg/L)	Bicarbonate (mg/L)	Total Alkalinity (mg/L)	Sodium (mg/L)
10/24/2000	16	7	24	12	200	<1	140	110	12
11/29/2000	20	11	18	9	240	<1	120	100	15
12/27/2000	25	6	25	11	230	<1	150	120	16
1/24/2001	17	20	17	8	230	<1	300	250	13
2/10/2001	20	12	18	9	380	<1	90	80	14
2/11/2001	17	16	24	11	160	<1	130	110	14
2/21/2001	17	9	18	9	270	<1	120	100	12
3/28/2001	3	4	6	3	54	<1	34	28	3
4/25/2001	4	NA	8	4	NA	<1	38	38	3
5/30/2001	3	4	11	4	NA	<1	44	44	5
6/27/2001	7	6	16	7	120	<1	78	64	7
8/29/2001	3	4	9	5	77	<1.0	50	41	4
9/26/2001	NA	NA	14	6	NA	<1	93	77	7
10/24/2001	15	13	27	13	220	<1	140	120	15
11/28/2001	18	13	15	8	320	<1	84	69	11
12/26/2001	18	12	15	8	270	<1	100	84	13
1/30/2002	38	14	34	17	410	<1	250	200	25
2/27/2002	41	12	37	16	NA	<1.0	228	187	27
3/27/2002	8	21	30	14	190	<1.0	120	100	11
4/30/2002	4	4	11	5	NA	<1.0	55	45	5
5/29/2002	4	4	13	5	NA	<1.0	61	50	6
6/19/2002	5	6	15	6	NA	<1.0	67	55	7
9/25/2002	4	5	11	4	NA	<1.0	39	32	5
11/20/2002	28	15	26	12	280	<1.0	140	110	17

C6: 531SJC503 – Lone Tree Creek at Austin Road continued…

Date	Chloride (mg/L)	Sulfate (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	TDS (mg/L)	Carbonate (mg/L)	Bicarbonate (mg/L)	Total Alkalinity (mg/L)	Sodium (mg/L)
Count	23	22	24	24	16	24	24	24	24
Min	3	4	6	3	54	0.5	34	28	3
Max	41	21	37	17	410	0.5	300	250	27
Mean	15	10	18	9	220	0.5	110	92	11
Geo Mean	11	9	17	8	200	0.5	94	79	9
Median	16	10	17	8	230	0.5	97	82	12
Quartile 1	4	5	13	5	190	0.5	60	49	6
Quartile 3	19	13	24	11	273	0.5	140	110	14

NOTE: For values reported as < (less than), half the detection limit was used.

NA = Data not applicable
INA = Site was inaccessible
DRY = Site had no flow

C6: 531SJC503 – Lone Tree Creek at Austin Road continued…

	96h Acute Fathead Minnow (% Survival)		48h Acute Ceriodaphnia Dubia (% Survival)		Algae Cell Growth		
Date	Result	Control	Result	Control	Result (million/ml)	Control (million/ml)	MDD(%)
06/19/2001	100	100	100	90			
11/22/2004	100	100	100	100			
12/28/2004	100	100	100	100			
01/26/2005	95	97.5	0*	100			
02/23/2005	100	100	100	100			
03/29/2005	100	100	100	100			
04/26/2005	90	100					
05/24/2005	85*	100	100	100			
06/28/2005	95	100	100	100			
07/26/2005	100	100	100	100			
08/23/2005	97.5	100	100	100			
09/27/2005	100	100	100	100			
Count	12	12	11	11	N/A	N/A	N/A

* Significantly reduced from the lab control.

** Significantly greater than the lab control.

^ Fish were from a "forced hatch," duplicate failed QA.

[1] Duplicate sample for the set was low - 77% recovery.

[2] Testing for the Fathead minnow was initiated when samples were approx. 48h old due to untimely shipping of fish by fish supplier.

[3] Samples qualified, but duplicate sample recovery for the set was high - 126% (53.8%/42.5%)

NA = Data not applicable

INA = Site was inaccessible

DRY = Site had no flow

C7: 531SJC504 – French Camp Slough at Airport Way

Station Code: 531SJC504

Location: Latitude 37.88167, Longitude -121.24944

Date	Time	Temp (ºC)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
10/24/2000	9:35 AM	12.0	289	7.2		
11/28/2000	9:55 AM	9.0	738	8.4		
12/27/2000	9:40 AM	5.8	714	8.7		
1/23/2001	9:30 AM	7.7	402	8.0		
2/20/2001	9:51 AM	11.4	239	7.2		
3/27/2001	9:49 AM	14.6	84	7.2		
4/24/2001	2:51 PM	DRY	DRY	DRY		
5/29/2001	10:10 AM	19.5	104	6.6		
6/26/2001	9:59 AM	19.4	201	7.8	8.5	
7/24/2001	8:59 AM	22.3	133	7.4	6.9	
8/28/2001	9:11 AM	21.6	138	7.6	8.1	
9/25/2001	10:00 AM	18.2	107	7.6	8.9	
10/23/2001	9:31 AM	16.0	296	7.7	7.9	
11/27/2001	9:27 AM	8.0	323	7.4	6.8	
12/26/2001	10:13 AM	9.6	255	7.0	NA	
1/29/2002	8:46 AM	6.3	187	8.0	13.2	
2/26/2002	8:39 AM	13.1	255	8.0	12.9	
3/26/2002	9:53 AM	13.3	146	7.2	10.3	
4/23/2002	9:59 AM	18.4	149	7.5	8.3	
5/28/2002	9:12 AM	19.7	167	7.1	0.4	
6/18/2002	9:11 AM	21.6	162	7.5	6.7	
7/31/2002	9:08 AM	22.5	172	7.6	6.3	45.7
8/27/2002	9:50 AM	20.6	131	NA	NA	
9/24/2002	9:30 AM	18.9	107	7.6	8.0	
10/29/2002	9:59 AM	13.4	343	7.5	11.0	7.0
11/19/2002	8:55 AM	9.9	317	7.0	6.3	
12/17/2002	8:22 AM	11.4	182	7.4	8.1	335
1/28/2003	9:04 AM	11.9	390	7.8	9.9	13.0
1/28/2004	12:04 PM	10.9	260	8.6	NA	16.8
2/24/2004	12:48 PM	13.4	203	7.9	10.1	NA
3/24/2004	10:42 AM	15.6	127	7.7	9.8	57.0
4/28/2004	10:52 AM	20.8	144	7.6	9.2	50.2
5/26/2004	1:00 PM	22.6	139	7.7	9.0	46.4
6/23/2004	11:59 AM	23.2	144	7.7	8.8	NA
7/28/2004	12:32 PM	25.7	181	7.7	6.7	NA
8/25/2004	12:50 PM	23.2	95	7.3	5.2	NA
9/29/2004	1:03 PM	18.7	155	7.7	8.2	NA
10/27/2004	12:44 PM	13.3	257	7.8	10.7	
11/22/2004	1:39 PM	9.8	281	7.9	9.1	

C7: 531SJC504 – French Camp Slough at Airport Way continued…

Date	Time	Temp (ºC)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
12/28/2004	11:44 AM	9.6	158	7.7	10.1	
1/26/2005	12:04 PM	10.3	218	7.9	10.3	
2/23/2005	11:23 AM	14.4	170	7.9	10.2	
3/29/2005	1:00 PM	15.1	153	7.9	10.6	
4/26/2005	1:14 PM	18.4	215	7.8	11.0	
5/24/2005	11:37 AM	21.0	122	7.6	8.6	
6/28/2005	11:58 AM	20.8	161	7.6	8.2	
7/26/2005	11:49 AM	24.4	138	7.5	6.2	
8/23/2005	11:56 AM	22.9	171	7.4	7.3	
9/27/2005	12:53 PM	18.7	107	7.6	9.4	
Count		48	48	47	38	8
Min		5.8	84	6.6	0.4	7.0
Max		25.7	738	8.7	13.2	335
Mean		16.0	215	7.6	8.6	71.4
Geo Mean		15.0	190	7.6	8.0	36.4
Median		15.8	171	7.6	8.7	46.1
Quartile 1		11.4	139	7.4	7.5	15.9
Quartile 3		20.8	256	7.8	10.1	51.9

NOTE: For values reported as < (less than), half the detection limit was used.

NA = Data not applicable
INA = Site was inaccessible
DRY = Site had no flow

C7: 531SJC504 – French Camp Slough at Airport Way continued…

Date	TSS (mg/L)	TOC (mg/L)	Total Coli MPN	*E. coli* MPN
10/24/2000	10	2.3		
11/28/2000	17	<1		
12/27/2000	<6	<1		
1/23/2001	15	21		
2/20/2001	34	11		
3/27/2001	24	NA		
5/29/2001	80	5.6		
6/26/2001	50	7.7		
7/24/2001		7.3		
8/28/2001	66	7.9		
9/25/2001	NA	8.6		
10/23/2001		15		
2/26/2002		NA		
3/26/2002		3.7		
4/23/2002		NA		
5/28/2002		34		
6/18/2002		7.6		
7/31/2002			>2419.6	272
8/27/2002		3.5		
9/24/2002		5.3		
10/29/2002		4.1		
11/19/2002		11		
12/17/2002		12		
1/28/2004			>2419.6	29
2/24/2004			>2419.6	76
3/24/2004			727	308
4/28/2004			>2419.6	261
5/26/2004			>2419.6	291
6/23/2004			>2419.6	135
7/28/2004			>2419.6	153
8/25/2004			>2419.6	96
9/29/2004			>2419.6	1203
10/27/2004		13	>2419.6	1986
11/22/2004		26	>2419.6	17
12/28/2004		4.5	>2419.6	62
1/26/2005		6.0	>2419.6	50
2/23/2005		7.5	>2419.6	201
3/29/2005		7.7	>2419.6	162
4/26/2005		NA	>2419.6	411
5/24/2005		NA	>2419.6	770

C7: 531SJC504 – French Camp Slough at Airport Way continued…

Date	TSS (mg/L)	TOC (mg/L)	Total Coli MPN	*E. coli* MPN
6/28/2005		4.5	>2419.6	980
7/26/2005		NA	>2419.6	108
8/23/2005		4.9	>2419.6	60
9/27/2005		5.2	>2419.6	236
Count	9	28	22	22
Min	3	0.5	727	17
Max	80	34	2420	1986
Mean	33	8.9	NA	NA
Geo Mean	23	6.3	2291	182
Median	24	7.4	2420	182
Quartile 1	15	4.5	2420	81
Quartile 3	50	11	2420	304

NOTE: For values reported as < (less than), half the detection limit was used
For values reported as > (greater than), 2420 was used

NA = Data not applicable
INA = Site was inaccessible
DRY = Site had no flow

C7: 531SJC504 – French Camp Slough at Airport Way continued…

Date	Nitrate (mg/L)	Nitrate-N (mg/L)	TKN (mg/L)	Ammonia-N (mg/L)	Phosphorus (mg/L)	Ortho-phosphate-P (mg/L)	Potassium (mg/L)	BOD 5-Day (mg/L)	BOD 10-Day (mg/L)
10/24/2000	7.6		<2		0.2	<1	5	1.0	1.8
11/28/2000	29		<2		0.2	<1	12	2.1	3.5
12/27/2000	24		<2		<0.1	<1	10	1.3	2.3
1/23/2001	15		3.5		0.9	1.3	25	5.2	11.3
2/20/2001	6.0		<2		0.5	0.7	14	3.1	5.8
3/27/2001	3.3		<2		0.2	<1	3.5	1.4	2.1
5/29/2001	2.6		<2		0.5	<1	4.8	3.0	4.4
6/26/2001	7.3		<2		0.5	<1	4.6	2.2	3.5
8/28/2001	3.9		<2		0.3	<1	4.0		
9/25/2001	3.0		<2		0.3	<1	4.6		
10/23/2001	9.2		<2		0.6	<1	11	3.0	4.8
11/27/2001	NA		NA		NA	1.5	37	16.4	33.5
12/26/2001	NA		NA		0.6	NA	11	3.7	6.5
1/29/2002	NA		1.0		0.2	0.1	5.0	2.0	3.0
2/26/2002	NA		NA		0.1	<0.03	1.9	1.8	2.9
3/26/2002	NA		0.7		0.1	0.1	2.3	2.1	3.7
4/23/2002	NA		NA		NA	NA	5.6	3.3	5.3
5/28/2002	NA		NA		NA	1.3	10	8.7	17.0
6/18/2002	NA		1.1		NA	0.5	7.5	3.5	5.5
8/27/2002	NA		0.8		0.4	0.3	NA	1.0	1.8
9/24/2002	NA		NA		0.5	0.3	4.1	1.8	3.1
10/29/2002	NA		0.6		0.3	0.3	7.6	1.4	2.8
11/19/2002	NA		3.1		1.2	0.8	21	4.7	8.5
12/17/2002	NA		4.1		1.5	<0.03	17	8.3	16.8
1/28/2003	NA		1.3		0.3	0.2	6.8	1.3	2.3

C7: 531SJC504 – French Camp Slough at Airport Way continued…

Date	Nitrate (mg/L)	Nitrate-N (mg/L)	TKN (mg/L)	Ammonia-N (mg/L)	Phosphorus (mg/L)	Ortho-phosphate-P (mg/L)	Potassium (mg/L)	BOD 5-Day (mg/L)	BOD 10-Day (mg/L)
Count	11	NA	19	NA	21	23	24	23	23
Min	2.6	NA	0.6	NA	0.1	0.02	1.9	1.0	1.8
Max	29.0	NA	4.1	NA	1.5	1.5	37.0	16.4	33.5
Mean	10.1	NA	1.4	NA	0.5	0.5	9.8	3.6	6.6
Geo Mean	7.3	NA	1.2	NA	0.3	0.3	7.5	2.7	4.7
Median	7.3	NA	1.0	NA	0.3	0.5	7.2	2.2	3.7
Quartile 1	3.6	NA	1.0	NA	0.2	0.3	4.6	1.6	2.9
Quartile 3	12.1	NA	1.1	NA	0.5	0.5	11.3	3.6	6.2

NOTE: For values reported as < (less than), half the detection limit was used.

NA = Data not applicable
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C7: 531SJC504 – French Camp Slough at Airport Way continued…

Date	Hardness (mg/L)	Total Arsenic (ug/L)	Total Cadmium (ug/L)	Total Chromium (ug/L)	Total Copper (ug/L)	Total Lead (ug/L)	Total Nickel (ug/L)	Total Zinc (ug/L)	Total Mercury (ug/L)
10/24/2000	110			1.4	4.0	<5	<5	6.2	
11/28/2000	290			2.0	3.0	<5	<5	<2	
12/27/2000	280			2.0	3.5	<5	<5	2.1	
1/23/2001	130			1.6	17	<5	<5	8.2	
2/20/2001	83			2.8	13	<5	<5	11	
3/27/2001	31			1.7	5.0	<5	<5	7.0	
5/29/2001	44			2.5	7.4	<5	<5	12	
6/26/2001		<2	<1	2.7	4.8	<5	<5	10	<0.2
7/24/2001		NA	NA	1.8	5.4	<5	<5	8.0	NA
8/28/2001	42	<2	<1	2.8	6.0	<5	<5	11	
9/25/2001	43	<4	<0.1	2.5	5.7	<5	<5	11	<0.2
10/23/2001	100	<4	<0.1	<1	5.1	<5	<5	8.7	NA
11/27/2001	85	<4	<0.1	3.3	16	<5	6.2	20	<0.2
12/26/2001	84	<4	<0.1	3.6	14	<5	5.0	18	<0.2
1/29/2002	73	<4	<0.1	<1	3.7	<5	<5	2.7	<0.2
3/26/2002	58	<4.0	<0.1	2.5	7.4	<5.0	10	11	<0.2
4/23/2002	61	<4.0	<0.1	<1.0	4.7	<5.0	<5.0	4.3	<0.2
5/28/2002	59	<4.0	<0.1	2.3	13	<5.0	<5.0	17	<0.2
6/18/2002	67	<4.0	<0.1	<1.0	4.4	<5.0	<5.0	7.3	<0.2
9/24/2002	43	<4.0	<0.1	1.4	7.0	<5.0	<5.0	6.6	<0.2
10/29/2002	130	<4.0	<0.1	<1.0	3.6	<5.0	<5.0	<2.0	<0.2
11/19/2002	110	<4.0	<0.1	1.4	7.9	<5.0	<5.0	8.3	<0.2

C7: 531SJC504 – French Camp Slough at Airport Way continued…

Date	Hardness (mg/L)	Total Arsenic (ug/L)	Total Cadmium (ug/L)	Total Chromium (ug/L)	Total Copper (ug/L)	Total Lead (ug/L)	Total Nickel (ug/L)	Total Zinc (ug/L)	Total Mercury (ug/L)
Count	20	14	14	22	22	22	22	22	12
Min	31.0	1.0	0.1	0.5	3.0	2.5	2.5	1.0	0.1
Max	290.0	2.0	0.5	3.6	17.0	2.5	10.0	20.0	0.1
Mean	96.2	1.9	0.1	1.9	7.3	2.5	3.1	8.7	0.1
Geo Mean	79.7	1.8	0.1	1.5	6.4	2.5	2.9	6.9	0.1
Median	78.0	2.0	0.1	1.9	5.6	2.5	2.5	8.3	0.1
Quartile 1	54.5	2.0	0.1	1.4	4.5	2.5	2.5	6.3	0.1
Quartile 3	110.0	2.0	0.1	2.5	7.8	2.5	2.5	11.0	0.1

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C7: 531SJC504 – French Camp Slough at Airport Way continued…

Date	Hardness (mg/L)	Dissolved Arsenic (ug/L)	Dissolved Cadmium (ug/L)	Dissolved Chromium (ug/L)	Dissolved Copper (ug/L)	Dissolved Lead (ug/L)	Dissolved Nickel (ug/L)	Dissolved Zinc (ug/L)	Dissolved Mercury (ug/L)
10/24/2000	110								
11/28/2000	290			1.3	2.0	<5	<5	<2	
12/27/2000	280			1.0	2.5	<5	<5	<2	
1/23/2001	130			<1	14	<5	<5	4.2	
2/20/2001	83			<1	9.5	<5	<5	3.8	
3/27/2001	31			<1	2.2	<5	<5	2.8	
5/29/2001	44			<1	3.4	<5	<5	3.6	
6/26/2001		<2	<1	<1	1.2	<5	<5	<2	<0.2
7/24/2001		NA	NA	NA	NA	NA	NA	NA	NA
8/28/2001	42	<2	<1	<1	4.2	<5	<5	9.0	
9/25/2001	43	<4	<0.1	<1	2.8	<5	<5	2.8	<0.2
10/23/2001	100	<4	<0.1	<1	5.0	<5	<5	4.4	NA
11/27/2001	85	<4	<0.1	<1	11	<5	<5	13	<0.2
12/26/2001	84	<4	<0.1	<1	7.2	<5	<5	6.5	<0.2
1/29/2002	73	<4	<0.1	<1	2.1	<5	<5	<2	<0.2
3/26/2002	58	<4.0	<0.1	<1.0	4.3	<5.0	<5.0	5.3	<0.2
4/23/2002	61	<4.0	<0.1	<1.0	4.4	<5.0	<5.0	4.9	<0.2
5/28/2002	59	<4.0	<0.1	<1.0	6.7	<5.0	<5.0	5.8	<0.2
6/18/2002	67	<4.0	<0.1	<1.0	3.1	<5.0	<5.0	5.1	<0.2
9/24/2002	43	<4.0	<0.1	<1.0	2.7	<5.0	<5.0	2.0	<0.2
10/29/2002	130	<4.0	<0.1	<1.0	2.5	<5.0	<5.0	<2.0	<0.2
11/19/2002	110	<4.0	<0.1	<1.0	6.2	<5.0	<5.0	4.5	<0.2
Count	20	14	14	20	20	20	20	20	12
Min	31.0	1.0	0.1	0.5	1.2	2.5	2.5	1.0	0.1
Max	290.0	2.0	0.5	1.3	14.0	2.5	2.5	13.0	0.1
Mean	96.2	1.9	0.1	0.6	4.9	2.5	2.5	4.1	0.1
Geo Mean	79.7	1.8	0.1	0.5	4.0	2.5	2.5	3.2	0.1
Median	78.0	2.0	0.1	0.5	3.8	2.5	2.5	4.0	0.1
Quartile 1	54.5	2.0	0.1	0.5	2.5	2.5	2.5	1.8	0.1
Quartile 3	110.0	2.0	0.1	0.5	6.3	2.5	2.5	5.2	0.1

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C7: 531SJC504 – French Camp Slough at Airport Way continued…

Date	Chloride (mg/L)	Sulfate (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	TDS (mg/L)	Carbonate (mg/L)	Bicarbonate (mg/L)	Total Alkalinity (mg/L)	Sodium (mg/L)
10/24/2000	14	15	24	12	160	<1	130	100	14
11/28/2000	54	50	52	39	460	10	270	240	43
12/27/2000	55	53	45	40	410	30	350	230	45
1/23/2001	23	25	27	15	280	<1	150	120	19
2/20/2001	13	18	18	9	210	<1	90	73	12
3/27/2001	3	4	7	3	NA	<1	39	32	3
5/29/2001	4	4	10	5	110	<1	40	40	4
8/28/2001	5	5	11	3	110	<1	63	52	6
9/25/2001	4	4	10	4	NA	<1	51	42	5
10/23/2001	18	14	20	12	NA	<1	110	92	16
11/27/2001	22	12	18	9	240	<1	120	98	12
12/26/2001	15	28	18	10	200	<1	76	62	14
1/29/2002	8	13	15	8	120	<1	62	76	9
3/26/2002	6	12	12	7	84	<1.0	60	50	8
4/23/2002	4	6	14	6	100	<1.0	68	56	7
5/28/2002	5	5	14	6	NA	<1.0	78	64	6
6/18/2002	5	7	16	7	NA	<1.0	79	NA	7
9/24/2002	4	4	10	4	NA	<1.0	45	37	4
10/29/2002	20	12	29	14	240	<1.0	160	130	19
11/19/2002	20	20	24	11	230	<1.0	120	96	13
Count	20	20	20	20	14	20	20	19	20
Min	3	4	7	3	84	0.5	39	32	3
Max	55	53	52	40	460	30	350	240	45
Mean	15	16	20	11	210	2	110	89	13
Geo Mean	10	11	17	9	190	0.7	90	75	10
Median	11	12	17	9	200	0.5	79	73	11
Quartile 1	5	5	12	6	110	0.5	62	51	6
Quartile 3	20	19	24	12	240	0.5	120	99	15

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C7: 531SJC504 – French Camp Slough at Airport Way continued…

	96h Acute Fathead Minnow (% Survival)		48h Acute Ceriodaphnia Dubia (% Survival)		Algae Cell Growth		
Date	Result	Control	Result	Control	Result (million/ml)	Control (million/ml)	MDD(%)
11/22/2004	100	100	100	100			
12/28/2004	100	100	100	100			
1/26/2005	95	97.5	100	100			
2/23/2005	77.5*	100	100	100			
3/29/2005	100	100	100	100			
4/26/2005	62.5*	100	100	100			
5/24/2005	85*	100	100	100			
6/28/2005	75*	100	95	100			
7/26/2005	100	100	100	100			
8/23/2005	97.5	100	100	100			
9/27/2005	100	100	100	100			
Count	11	11	11	11	N/A	N/A	N/A

* Significantly reduced from the lab control.

** Significantly greater than the lab control.

^ Fish were from a "forced hatch," duplicate failed QA.

[1] Duplicate sample for the set was low - 77% recovery.

[2] Testing for the Fathead minnow was initiated when samples were approx. 48h old due to untimely shipping of fish by fish supplier.

[3] Samples qualified, but duplicate sample recovery for the set was high - 126% (53.8%/42.5%)

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