

APPENDIX B
NORTHEAST BASIN

APPENDIX B: NORTHEAST BASIN

B1: 531SAC001 – Cosumnes River at Twin Cities Road.....03-11
B2: 531SAC002 – Mokelumne River at New Hope Road.....12-23
B3: 531SJC507 – Pixley Slough at Davis Road.....24-32
B4: 544SJC508 – Bear Creek at Thorton Road (J8).....33-38
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B1: 531SAC001 – Cosumnes River at Twin Cities Road

Station Code: 531SAC001

Location: Latitude 38.29083, Longitude -121.37583

Date	Time	Temp (°C)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
10/24/2000	7:20 AM	12.6	98	6.2		
11/28/2000	8:00 AM	9.5	125	6.6		
12/27/2000	7:45 AM	5.9	133	6.8		
1/23/2001	7:38 AM	8.0	145	8.9		
2/20/2001	8:01 AM	10.9	135	6.8		
3/27/2001	7:54 AM	15.9	153	6.4		
4/24/2001	8:00 AM	18.9	145	6.7		
5/29/2001	7:40 AM	19.2	113	6.0		
6/26/2001	7:30 AM	20.8	427	7.0	NA	
7/24/2001	DRY	DRY	DRY	DRY	DRY	
8/28/2001	DRY	DRY	DRY	DRY	DRY	
9/25/2001	8:03 AM	DRY	DRY	DRY	DRY	
10/23/2001	DRY	DRY	DRY	DRY	DRY	
11/27/2001	7:27 AM	8.6	97	8.5	11.1	
12/26/2001	8:20 AM	9.2	141	6.6	NA	
1/29/2002	6:59 AM	5.2	161	7.8	13.7	
2/26/2002	6:52 AM	10.4	89	8.1	14.1	
3/26/2002	7:41 AM	10.9	113	7.8	10.8	
4/23/2002	7:42 AM	15.9	74	7.8	9.8	
5/28/2002	6:59 AM	20.2	64	8.1	9.1	
6/18/2002	7:20 AM	22.0	73	7.5	7.9	
7/31/2002	DRY	DRY	DRY	DRY	DRY	DRY
8/27/2002	8:20 AM	DRY	DRY	DRY	DRY	
9/24/2002	7:25 AM	DRY	DRY	DRY	DRY	
10/29/2002	7:40 AM	DRY	DRY	DRY	DRY	DRY
11/19/2002	6:59 AM	DRY	DRY	DRY	DRY	
12/17/2002	11:30 AM	10.5	89	8.1	11.1	248
1/28/2003	7:22 AM	10.8	82	7.9	11.5	13.0
3/25/2003	7:19 AM	13.6	109	7.6	10.5	31.0
4/22/2003	7:10 AM	14.3	76	7.9	10.0	18.1
5/27/2003	7:46 AM	19.3	46	7.7	9.2	14.2
6/24/2003	1:07 PM	24.8	69	8.1	11.3	3.2
7/29/2003	12:40 PM	DRY	DRY	DRY	DRY	DRY
8/26/2003	8:07 AM	DRY	DRY	DRY	DRY	DRY
9/23/2003	8:00 AM	DRY	DRY	DRY	DRY	DRY
10/28/2003	8:15 AM	DRY	DRY	DRY	DRY	DRY
11/18/2003	7:45 AM	DRY	DRY	DRY	DRY	DRY
1/28/2004	7:16 AM	8.1	105	8.1	13.5	8.9
2/24/2004	8:17 AM	10.7	112	6.8	10.8	14.4
3/24/2004	7:10 AM	14.0	52	7.5	10.4	13.4

B1: 531SAC001 – Cosumnes River at Twin Cities Road continued...

Date	Time	Temp (°C)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
4/28/2004	7:06 AM	19.8	60	7.7	8.9	6.2
5/26/2004	7:45 AM	19.0	65	7.4	9.3	5.0
6/23/2004	7:12 AM	DRY	DRY	DRY	DRY	DRY
7/28/2004	7:30 AM	DRY	DRY	DRY	DRY	DRY
8/25/2004	7:15 AM	DRY	DRY	DRY	DRY	DRY
9/29/2004	7:30 AM	DRY	DRY	DRY	DRY	DRY
10/27/2004	7:08 AM	12.8	98	8.6	12.0	
11/22/2004	8:07 AM	6.7	107	9.3	12.1	
12/28/2004	7:12 AM	8.2	119	8.3	12.0	
1/26/2005	7:47 AM	9.1	99	8.1	11.5	
2/23/2005	7:01 AM	10.6	91	7.9	NA	
3/29/2005	8:11 AM	11.5	95	6.8	10.6	
4/26/2005	7:52 AM	13.4	67	8.3	11.3	
5/24/2005	7:24 AM	16.7	47	8.2	9.8	
6/28/2005	7:18 AM	21.5	65	7.1	8.5	
7/26/2005	7:11 AM	24.9	88	8.1	7.9	
8/23/2005	7:15 AM	DRY	DRY	DRY	DRY	
9/27/2005	7:47 AM	DRY	DRY	DRY	DRY	

Count	38	38	38	27	11
Min	5.2	46	6.0	7.9	3.2
Max	24.9	427	9.3	14.1	248
Mean	13.8	106	7.6	10.7	34.1
Geo Mean	12.8	96	7.6	10.6	14.1
Median	12.7	98	7.8	10.8	13.4
Quartile 1	9.7	73	6.9	9.6	7.6
Quartile 3	19.0	118	8.1	11.5	16.3

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

B1: 531SAC001 – Cosumnes River at Twin Cities Road continued...

Date	TSS (mg/L)	TOC (mg/L)	Total Coli MPN	<i>E. coli</i> MPN
10/24/2000	24	1.5		
11/28/2000	9	3.1		
12/27/2000	<5	1.7		
1/23/2001	14	1.8		
2/20/2001	38	1.6		
3/27/2001	49	NA		
4/24/2001	34	4.7		
5/29/2001	20	6.7		
6/26/2001	11	20		
2/26/2002		NA		
3/26/2002		2.3		
4/23/2002		NA		
5/28/2002		2.1		
6/18/2002		<1.0		
7/31/2002			DRY	DRY
12/17/2002		4.7		
3/25/2003		2.3		
4/22/2003		2.3	420	37
5/27/2003		NA		
6/24/2003		NA		
7/29/2003			DRY	DRY
8/26/2003			DRY	DRY
9/23/2003			DRY	DRY
10/28/2003			DRY	DRY
11/18/2003			DRY	DRY
1/28/2004			1553	83
2/24/2004			228	43
3/24/2004			416	29
4/28/2004			1553	80
5/26/2004			>2419.6	167
6/23/2004			DRY	DRY
7/28/2004			DRY	DRY
8/25/2004			DRY	DRY
9/29/2004			DRY	DRY
10/27/2004		5.0	>2419.6	921
11/22/2004		3.3	>2419.6	93
12/28/2004		2.0	435	74
1/26/2005		1.8	130	36
2/23/2005		3.0	1733	111

B1: 531SAC001 – Cosumnes River at Twin Cities Road continued...

Date	TSS (mg/L)	TOC (mg/L)	Total Coli MPN	<i>E. coli</i> MPN
3/29/2005		3.7	>2419.6	1046
4/26/2005		NA	613	36
5/24/2005		NA	510	57
6/28/2005		1.1	1986	105
7/26/2005		NA	>2419.6	111
8/23/2005		DRY	DRY	DRY
9/27/2005		DRY	DRY	DRY
Count	9	21	16	16
Min	3	0.5	130	29
Max	49	20	2420	1046
Mean	22	3.6	NA	NA
Geo Mean	17	2.6	956	93
Median	20	2.3	1553	82
Quartile 1	11	1.8	431	42
Quartile 3	34	3.7	2420	111

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

B1: 531SAC001 – Cosumnes River at Twin Cities 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	<2		<2		0.1	<1	2.3	0.6	0.9
11/28/2000	<2		<2		0.3	<1	3.0	0.5	0.9
12/27/2000	3.6		<2		0.3	1.0	3.1	0.6	1.0
1/23/2001	6.1		<2		0.4	<1	3.8	0.8	1.6
2/20/2001	4.2		<2		0.4	0.4	3.8	1.4	2.7
3/27/2001	<2		<2		0.4	<1	3.6	1.9	3.2
4/24/2001	2.6		<2		0.3	<1	3.4	1.4	2.7
5/29/2001	<2		<2		0.3	<1	2.9	3.9	6.1
6/26/2001	<2		<2		0.4	<1	8.4	3.5	5.5
11/27/2001	NA		NA		NA	<0.03	1.7	0.8	1.2
12/26/2001								0.5	1.0
1/29/2002								0.8	1.1
2/26/2002								0.5	0.5
3/26/2002								0.4	0.9
4/23/2002								0.4	0.5
5/28/2002								0.3	0.4
6/18/2002								0.4	0.6
12/17/2002								2.5	3.9
1/28/2003								0.3	0.4
Count	9	NA	9	NA	9	10	10	19	19
Min	1.0	NA	1.0	NA	0.1	0.02	1.7	0.3	0.4
Max	6.1	NA	1.0	NA	0.4	1.0	8.4	3.9	6.1
Mean	2.4	NA	1.0	NA	0.3	0.5	3.6	1.1	1.8
Geo Mean	1.8	NA	1.0	NA	0.3	0.4	3.3	0.8	1.3
Median	1.0	NA	1.0	NA	0.3	0.5	3.3	0.6	1.0
Quartile 1	1.0	NA	1.0	NA	0.3	0.5	2.9	0.5	0.8
Quartile 3	3.6	NA	1.0	NA	0.4	0.5	3.8	1.4	2.7

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

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B1: 531SAC001 – Cosumnes River at Twin Cities 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	33			<1	2.9	<5	≤	<2.5	
11/28/2000	29			<1	1.8	<5	≤	4.8	
12/27/2000	29			<1	2.3	<5	≤	4.4	
1/23/2001	35			<1	3.2	<5	≤	4.5	
2/20/2001	36			2.5	4.2	<5	≤	7.7	
3/27/2001	39			1.4	3.7	<5	5.1	6.9	
4/24/2001	38			<1	4.0	<5	≤	4.7	
5/29/2001	43			<1	1.4	<5	≤	3.0	
6/26/2001		3.9	<1	<1	<1	<5	≤	3.9	<0.2
11/27/2001	39	<4	<0.1	2.6	2.5	<5	≤	5.3	<0.2
12/26/2001		<4	<0.1	3.6	5.5	<5	≤	8.0	<0.2
1/29/2002		<4	<0.1	<1	1.5	<5	≤	2.9	<0.2
3/26/2002		<4.0	<0.1	1.7	3.5	<5.0	≤5.0	4.9	<0.2
4/23/2002		<4.0	<0.1	<1.0	<1.0	<5.0	≤5.0	<2.0	<0.2
5/28/2002		<4.0	<0.1	<1.0	<1.0	<5.0	≤5.0	<2.0	<0.2
6/18/2002		<4.0	<0.1	<1.0	<1.0	<5.0	≤5.0	<2.0	<0.2
3/25/2003	45	<4.0	<0.1	2.6	2.9	<5.0	≤5.0	3	<0.2
4/22/2003	32	<4.0	<0.1	1.5	1.8	<5.0	≤5.0	<2.0	<0.2
5/27/2003	19	<4.0	<0.1	<1.0	1.4	<5.0	≤5.0	<2.0	<0.2
6/24/2003	26	<4.0	<0.1	<1.0	<1.0	<5.0	≤5.0	<2.0	<0.2
Count	13	12	12	20	20	20	20	20	12
Min	19.0	2.0	0.1	0.5	0.5	2.5	2.5	1.0	0.1
Max	45.0	3.9	0.5	3.6	5.5	2.5	5.1	8.0	0.1
Mean	34.1	2.2	0.1	1.1	2.3	2.5	2.6	3.6	0.1
Geo Mean	33.3	2.1	0.1	0.8	1.7	2.5	2.6	2.8	0.1
Median	35.0	2.0	0.1	0.5	2.1	2.5	2.5	3.5	0.1
Quartile 1	29.0	2.0	0.1	0.5	1.2	2.5	2.5	1.0	0.1
Quartile 3	39.0	2.0	0.1	1.6	3.3	2.5	2.5	4.8	0.1

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

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B1: 531SAC001 – Cosumnes River at Twin Cities 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	33								
11/28/2000	29			<1	1.1	<5	<5	3.2	
12/27/2000	29			<1	1.1	<5	<5	5.3	
1/23/2001	35			<1	<1	<5	<5	3.9	
2/20/2001	36			<1	1.7	<5	<5	3.3	
3/27/2001	39			<1	1.6	<5	<5	3.1	
4/24/2001	38			<1	1.8	<5	<5	5.1	
5/29/2001	43			<1	<1	<5	<5	2.8	
6/26/2001		3.2	<1	<1	<1	<5	<5	2.1	<0.2
11/27/2001	39	<4	<0.1	<1	1.2	<5	<5	5.4	<0.2
12/26/2001		<4	<0.1	<1	2.9	<5	<5	5.1	<0.2
1/29/2002		<4	<0.1	<1	<1	<5	<5	<2	<0.2
3/26/2002		<4.0	<0.1	<1.0	2.0	<5.0	<5.0	6.1	<0.2
4/23/2002		<4.0	<0.1	<1.0	<1.0	<5.0	<5.0	<2.0	<0.2
5/28/2002		<4.0	<0.1	<1.0	<1.0	<5.0	<5.0	<2.0	<0.2
6/18/2002		<4.0	<0.1	<1.0	<1.0	<5.0	<5.0	<2.0	<0.2
Count	9	8	8	15	15	15	15	15	8
Min	29.0	2.0	0.1	0.5	0.5	2.5	2.5	1.0	0.1
Max	43.0	3.2	0.5	0.5	2.9	2.5	2.5	6.1	0.1
Mean	35.7	2.2	0.1	0.5	1.1	2.5	2.5	3.3	0.1
Geo Mean	35.4	2.1	0.1	0.5	0.9	2.5	2.5	2.7	0.1
Median	36.0	2.0	0.1	0.5	1.1	2.5	2.5	3.2	0.1
Quartile 1	33.0	2.0	0.1	0.5	0.5	2.5	2.5	1.6	0.1
Quartile 3	39.0	2.0	0.1	0.5	1.7	2.5	2.5	5.1	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

B1: 531SAC001 – Cosumnes River at Twin Cities 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	5	7	7	4	95	<1	70	60	7
11/28/2000	9	8	7	3	110	<1	50	40	13
12/27/2000	9	9	7	3	80	<1	50	40	13
1/23/2001	9	10	8	4	110	<1	50	40	14
2/20/2001	9	12	8	4	120	<1	46	38	12
3/27/2001	10	10	8	4	NA	<1	56	46	15
4/24/2001	9	8	8	4	110	<1	51	42	12
5/29/2001	4	4	9	5	61	<1	44	44	7
11/27/2001	4	7	9	4	60	<1	43	35	4
3/25/2003	4	6	10	5					
4/22/2003	3	3	7	4					
5/27/2003	3	<2.0	5	2					
6/24/2003	2	3	6	3					
Count	13	13	13	13	8	9	9	9	9
Min	2	1	5	2	60	0.5	43	35	4
Max	10	12	10	5	120	0.5	70	60	15
Mean	6	7	8	4	93	0.5	51	43	11
Geo Mean	5	6	8	4	90	0.5	51	42	10
Median	5	7	8	4	100	0.5	50	40	12
Quartile 1	4	4	7	3	75	0.5	46	40	7
Quartile 3	9	9	8	4	110	0.5	51	44	13

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

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B1: 531SAC001 – Cosumnes River at Twin Cities 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(%)
10/24/2000	100	100	NA	NA			
12/26/2001	100	100	100	100			
1/29/2002	55*	100	100	100			
4/23/2002	95	95	90	100			
5/28/2002	100	100	100	100			
6/18/2002	95	100	90	100			
12/17/2002	100	100	100	100	2.11*	2.92	NA
1/28/2003	100	100	100	100	1.38*	3.10	NA
4/22/2003	70*	100	100	100	1.64*	2.00	7
5/28/2003	100	100	100	100	1.27*	2.04	4
11/22/2004	100	100	100	100			
12/28/2004	100	100	100	100			
1/26/2005	95	97.5	90	100			
2/23/2005	87.5	100	100	100			
3/29/2005	90	100	100	100			
4/26/2005	67.5*	100	85	100			
5/24/2005	92.5	100	100	100			
6/28/2005	100	100	100	100			
7/26/2005	100	100	100	100			
Count	19	19	18	18	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%)

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DRY = Site had no flow

B2: 531SAC002 – Mokelumne River at New Hope Road

Station Code: 544SAC002

Location: Latitude 38.23611, Longitude -121.41889

Date	Time	Temp (°C)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
10/24/2000	7:50 AM	12.4	49	6.9		
11/28/2000	8:32 AM	11.4	45	7.4		
12/27/2000	8:15 AM	7.4	44	7.3		
1/23/2001	8:10 AM	9.2	44	10.1		
2/20/2001	8:29 AM	11.0	44	7.4		
3/27/2001	8:24 AM	14.1	46	7.2		
4/24/2001	9:10 AM	16.8	48	7.1		
5/29/2001	8:35 AM	18.3	47	6.9		
6/26/2001	8:12 AM	21.5	54	7.7	6.7	
7/24/2001	7:37 AM	24.4	66	7.7	6.6	
8/28/2001	7:36 AM	24.1	53	7.4	6.9	
9/25/2001	8:27 AM	19.4	64	7.0	8.8	
10/23/2001	8:05 AM	15.6	52	7.4	9.1	
11/27/2001	7:56 AM	10.2	55	8.2	10.1	
12/26/2001	8:45 AM	10.1	55	7.3	NA	
1/29/2002	7:24 AM	7.0	53	7.9	12.4	
2/26/2002	7:21 AM	11.8	52	8.6	13.4	
3/26/2002	8:09 AM	12.8	52	8.6	9.5	
4/23/2002	8:13 AM	16.3	52	7.6	8.7	
5/28/2002	7:24 AM	18.4	71	7.9	10.4	
6/18/2002	7:45 AM	19.0	50	7.6	8.1	
7/31/2002	10:57 AM	23.2	63	7.7	7.4	2.6
8/27/2002	8:30 AM	21.4	62	NA	NA	
9/24/2002	7:50 AM	22.0	62	6.9	6.6	
10/29/2002	8:13 AM	13.0	53	7.8	9.6	3.3
11/19/2002	7:16 AM	12.3	53	8.4	10.0	
12/17/2002	11:10 AM	11.4	56	8.3	10.4	16.0
1/28/2003	7:50 AM	11.5	48	8.1	11.0	13.0
3/25/2003	7:43 AM	13.9	47	7.8	9.5	8.1
4/22/2003	7:39 AM	14.1	46	7.6	8.8	8.1
5/27/2003	8:20 AM	18.1	44	7.4	8.7	30.0
6/24/2003	12:43 PM	16.6	44	7.5	13.1	8.0
7/29/2003	11:58 AM	19.1	45	7.9	9.2	5.8
8/26/2003	8:31 AM	21.7	48	7.7	7.8	4.4
9/23/2003	8:29 AM	21.9	54	7.4	7.6	12.3
10/28/2003	8:43 AM	16.1	49	7.4	9.1	4.7
11/18/2003	7:58 AM	13.8	47	7.5	10.1	14.0
1/28/2004	7:41 AM	9.6	45	8.2	13.1	42.0
2/24/2004	8:40 AM	11.5	47	7.7	10.3	13.2

B2: 531SAC002 – Mokelumne River at New Hope Road continued...

Date	Time	Temp (°C)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
3/24/2004	7:29 AM	14.2	47	7.5	9.8	11.4
4/28/2004	7:25 AM	16.9	48	7.6	9.5	8.2
5/26/2004	8:15 AM	16.2	46	7.4	9.5	7.0
6/23/2004	7:29 AM	19.2	47	7.6	8.9	NA
7/28/2004	7:50 AM	24.1	84	8.7	8.6	NA
8/25/2004	7:38 AM	22.1	64	8.3	6.8	NA
9/29/2004	7:57 AM	19.1	104	8.0	6.9	NA
10/27/2004	7:36 AM	14.0	50	8.3	11.1	
11/22/2004	8:41 AM	9.7	49	8.8	10.9	
12/28/2004	7:49 AM	9.4	50	8.3	11.4	
1/26/2005	8:15 AM	9.4	49	7.9	10.7	
2/23/2005	7:25 AM	10.1	46	7.9	11.0	
3/29/2005	8:45 AM	11.1	48	7.0	10.4	
4/26/2005	8:22 AM	12.4	49	8.2	11.4	
5/24/2005	7:51 AM	13.7	48	7.8	10.6	
6/28/2005	7:43 AM	15.3	46	7.1	10.3	
7/26/2005	7:39 AM	16.3	43	8.0	11.0	
8/23/2005	7:42 AM	18.1	51	7.8	8.1	
9/27/2005	8:14 AM	17.1	41	8.2	12.9	
Count		58	58	57	48	18
Min		7.0	41.0	6.9	6.6	2.6
Max		24.4	104	10.1	13.4	42.0
Mean		15.4	52.1	7.8	9.6	11.8
Geo Mean		14.7	51.3	7.8	9.5	9.2
Median		14.8	49.0	7.7	9.6	8.2
Quartile 1		11.5	46.3	7.4	8.7	6.1
Quartile 3		18.9	53.0	8.1	10.8	13.2

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

B2: 531SAC002 – Mokelumne River at New Hope Road continued...

Date	TSS (mg/L)	TOC (mg/L)	Total Coli MPN	<i>E. coli</i> MPN
10/24/2000	6	<1		
11/28/2000	6	2.8		
12/27/2000	6	1.3		
1/23/2001	5	4.2		
2/20/2001	6	<1		
3/27/2001	6	NA		
4/24/2001	6	1.6		
5/29/2001	6	1.5		
6/26/2001	8	3.4		
7/24/2001		3.6		
8/28/2001	7	3.1		
9/25/2001	NA	5.2		
<hr/>				
10/23/2001		3.8		
2/26/2002		NA		
3/26/2002		1.6		
4/23/2002		NA		
5/28/2002		5.5		
6/18/2002		1.0		
7/31/2002			>2419.6	53
8/27/2002		2.2		
9/24/2002		2.9		
<hr/>				
10/29/2002		1.2		
11/19/2002		1.5		
12/17/2002		2.8		
3/25/2003		1.5		
4/22/2003		2.0	2420	46
5/27/2003		NA		
6/24/2003		NA		
7/29/2003			>2419.6	157
8/26/2003			>2419.6	86
9/23/2003			>2419.6	110
<hr/>				
10/28/2003			1203	140
11/18/2003			2420	99
1/28/2004			>2419.6	122
2/24/2004			517	37
3/24/2004			980	36
4/28/2004			770	55
5/26/2004			1986	102
6/23/2004			>2419.6	>2419.6
7/28/2004			>2419.6	272
8/25/2004			2420	51
9/29/2004			1553	34

B2: 531SAC002 – Mokelumne River at New Hope Road continued...

Date	TSS (mg/L)	TOC (mg/L)	Total Coli MPN	<i>E. coli</i> MPN
10/27/2004		1.5	>2419.6	111
11/22/2004		NA	461	28
12/28/2004		1.7	866	91
1/26/2005		1.8	231	53
2/23/2005		1.6	248	64
3/29/2005		1.7	>2419.6	46
4/26/2005		NA	1414	69
5/24/2005		NA	1553	58
6/28/2005		1.6	>2419.6	46
7/26/2005		NA	>2419.6	128
8/23/2005		1.7	2420	37
9/27/2005		1.6	1986	75

Count	10	30	28	28
Min	3	0.5	231	28
Max	8	5.5	2420	2420
Mean	4	2.2	NA	NA
Geo Mean	4	2	1498	79
Median	3	1.7	2420	67
Quartile 1	3	1.5	1147	46
Quartile 3	6	2.9	2420	110

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

B2: 531SAC002 – Mokelumne River at New Hope 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	<2		<2		<0.1	<1	<1	0.4	0.4
11/28/2000	<2		<2		<0.1	<1	<1	0.3	0.4
12/27/2000	<2		<2		<0.1	<1	<1	0.4	0.4
1/23/2001	<2		<2		<0.1	<1	<1	0.3	0.5
2/20/2001	<1.0		<2		<0.1	0.05	<1	0.5	0.9
3/27/2001	<2		<2		<0.1	<1	<1	0.4	0.4
4/24/2001	<2		<2		NA	<1	<1	0.4	0.5
5/29/2001	<2		<2		NA	<1	<1	0.5	0.5
6/26/2001	<2		<2		0.1	<1	1.0	0.4	0.5
8/28/2001	<2		<2		<0.1	<1	<1		
9/25/2001	<2		<2		<0.1	<1	1.5		
10/23/2001	<2		<2		<0.1	<1	<1	0.3	0.4
11/27/2001	NA		NA		NA	<0.03	1.2	0.5	0.7
12/26/2001								0.4	0.8
1/29/2002								0.6	1.0
2/26/2002								0.5	0.5
3/26/2002								0.3	0.6
4/23/2002								0.4	0.6
5/28/2002								0.4	0.5
6/18/2002								0.5	0.6
8/27/2002								0.1	0.3
9/24/2002								0.6	1.1
10/29/2002								0.3	0.5
11/19/2002								0.5	0.6
12/17/2002								1.2	1.9
1/28/2003								0.2	0.2

B2: 531SAC002 – Mokelumne River at New Hope 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	12	NA	12	NA	10	13	13	24	24
Min	0.5	NA	1.0	NA	0.1	0.02	0.5	0.1	0.2
Max	1.0	NA	1.0	NA	0.1	0.5	1.5	1.2	1.9
Mean	1.0	NA	1.0	NA	0.1	0.4	0.7	0.4	0.6
Geo Mean	0.9	NA	1.0	NA	0.1	0.3	0.6	0.4	0.6
Median	1.0	NA	1.0	NA	0.1	0.5	0.5	0.4	0.5
Quartile 1	1.0	NA	1.0	NA	0.1	0.5	0.5	0.3	0.4
Quartile 3	1.0	NA	1.0	NA	0.1	0.5	0.5	0.5	0.6

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

B2: 531SAC002 – Mokelumne River at New Hope 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	18			<1	1.8	<5	5	3.4	
11/28/2000	16			2.5	1.7	9.7	5	4.7	
12/27/2000	16			<1	2.2	<5	5	4.5	
1/23/2001	16			<1	1.9	<5	5	3.5	
2/20/2001	16			<1	2.1	<5	5	5.3	
3/27/2001	16			<1	1.8	<5	5	3.3	
4/24/2001	17			<1	1.6	<5	5	2.8	
5/29/2001	17			<1	1.8	<5	5	6.6	
6/26/2001		<2	<1	<1	1.8	<5	5	3.9	<0.2
7/24/2001		NA	NA	<1	1.8	<5	5	4.1	NA
8/28/2001	17	<2	<1	<1	1.9	<5	5	2.7	
9/25/2001	21	<4	<0.1	<1	2.7	<5	5	2.7	<0.2
10/23/2001	18	<4	<0.1	<1	1.6	<5	5	4.5	NA
11/27/2001	19	<4	<0.1	<1	1.8	<5	5	5.4	<0.2
12/26/2001		<4	<0.1	<1	1.9	<5	5	5.6	<0.2
1/29/2002		<4	<0.1	<1	<1	<5	5	<2	<0.2
3/26/2002		<4.0	<0.1	<1.0	2.5	<5.0	5.0	6.4	<0.2
4/23/2002		<4.0	<0.1	2.4	1.6	<5.0	5.0	3.0	<0.2
5/28/2002		<4.0	<0.1	<1.0	1.8	<5.0	5.0	2.7	<0.2
6/18/2002		<4.0	<0.1	<1.0	1.2	<5.0	5.0	2.6	<0.2
9/24/2002		<4.0	<0.1	<1.0	2.2	<5.0	5.0	4.3	<0.2
10/29/2002	21	<4.0	<0.1	<1.0	2.8	<5.0	5.0	3.4	<0.2
11/19/2002	20	<4.0	<0.1	<1.0	1.1	<5.0	5.0	<2.0	<0.2
3/25/2003	16	<4.0	<0.1	<1.0	1.7	<5.0	5.0	3.3	<0.2
4/22/2003	15	<4.0	<0.1	<1.0	1.8	<5.0	5.0	3.1	<0.2
5/27/2003	15	<4.0	<0.1	<1.0	2.9	<5.0	5.0	2.8	<0.2
6/24/2003	15	<4.0	<0.1	<1.0	1.9	<5.0	5.0	4.6	0.2

B2: 531SAC002 – Mokelumne River at New Hope 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	18	18	18	27	27	27	27	27	16
Min	15.0	1.0	0.1	0.5	0.5	2.5	2.5	1.0	0.1
Max	21.0	2.0	0.5	2.5	2.9	9.7	2.5	6.6	0.2
Mean	17.2	1.9	0.1	0.6	1.9	2.8	2.5	3.7	0.1
Geo Mean	17.1	1.9	0.1	0.6	1.8	2.6	2.5	3.5	0.1
Median	16.5	2.0	0.1	0.5	1.8	2.5	2.5	3.4	0.1
Quartile 1	16.0	2.0	0.1	0.5	1.7	2.5	2.5	2.8	0.1
Quartile 3	18.0	2.0	0.1	0.5	2.0	2.5	2.5	4.6	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

B2: 531SAC002 – Mokelumne River at New Hope 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	18								
11/28/2000	16			<1	<1	<5	5	2.4	
12/27/2000	16			<1	<1	<5	5	5.8	
1/23/2001	16			<1	<1	<5	5	2.2	
2/20/2001	16			<1	<1	<5	5	2.4	
3/27/2001	16			<1	<1	<5	5	2.3	
4/24/2001	17			<1	1.0	<5	5	2.8	
5/29/2001	17			<1	<1	<5	5	3.7	
6/26/2001		<2	<1	<1	<1	<5	5	3.5	<0.2
7/24/2001		NA	NA	NA	NA	NA	NA	NA	NA
8/28/2001	17	<2	<1	<1	<1	<5	5	<2	
9/25/2001	21	<4	<0.1	<1	1.6	<5	5	<2	<0.2
10/23/2001	18	<4	<0.1	<1	<1	<5	5	<2	NA
11/27/2001	19	<4	<0.1	<1	1.5	<5	5	8.1	<0.2
12/26/2001		<4	<0.1	<1	1.7	<5	5	6.3	<0.2
1/29/2002		<4	<0.1	<1	<1	<5	5	<2	<0.2
3/26/2002		<4.0	<0.1	<1.0	1.5	<5.0	<5.0	5.4	<0.2
4/23/2002		<4.0	<0.1	<1.0	1.2	<5.0	<5.0	<2.0	<0.2
5/28/2002		<4.0	<0.1	<1.0	2.2	<5.0	<5.0	2.5	<0.2
6/18/2002		<4.0	<0.1	<1.0	<1.0	<5.0	<5.0	<2.0	<0.2
9/24/2002		<4.0	<0.1	<1.0	4.8	<5.0	<5.0	<2.0	<0.2
10/29/2002	21	<4.0	<0.1	<1.0	<1.0	<5.0	<5.0	<2.0	<0.2
11/19/2002	20	<4.0	<0.1	<1.0	<1.0	<5.0	<5.0	2.3	<0.2
Count	14	14	14	21	21	21	21	21	12
Min	16.0	1.0	0.1	0.5	0.5	2.5	2.5	1.0	0.1
Max	21.0	2.0	0.5	0.5	4.8	2.5	2.5	8.1	0.1
Mean	17.7	1.9	0.1	0.5	1.0	2.5	2.5	2.7	0.1
Geo Mean	17.6	1.8	0.1	0.5	0.8	2.5	2.5	2.2	0.1
Median	17.0	2.0	0.1	0.5	0.5	2.5	2.5	2.3	0.1
Quartile 1	16.0	2.0	0.1	0.5	0.5	2.5	2.5	1.0	0.1
Quartile 3	18.8	2.0	0.1	0.5	1.5	2.5	2.5	3.5	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

B2: 531SAC002 – Mokelumne River at New Hope 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	3	3	5	2	33	<1	20	20	3
11/28/2000	5	2	4	1	45	<1	30	30	2
12/27/2000	3	2	4	1	25	<1	20	20	2
1/23/2001	3	2	4	1	30	<1	30	25	2
2/20/2001	3	3	4	1	45	<1	21	15	3
3/27/2001	3	3	4	1	NA	<1	22	16	2
4/24/2001	3	3	4	2	24	<1	27	22	3
5/29/2001	3	2	4	2	33	<1	18	18	3
8/28/2001	3	3	4	2	47	<1	25	21	3
9/25/2001	4	3	5	2	NA	<1	29	24	4
10/23/2001	3	3	5	2	NA	<1	22	18	3
11/27/2001	3	3	5	2	45	<1	23	19	3
3/25/2003	3	3	4	1					
4/22/2003	3	2	4	1					
5/27/2003	3	2	4	1					
6/24/2003	3	2	4	1					
Count	16	16	16	16	9	12	12	12	12
Min	3	2	4	1	24	0.5	18	15	2
Max	5	3	5	2	47	0.5	30	30	4
Mean	3	3	4	1	36	0.5	24	21	3
Geo Mean	3	3	4	1	35	0.5	24	20	3
Median	3	3	4	1	33	0.5	23	20	3
Quartile 1	3	2	4	1	30	0.5	21	18	2
Quartile 3	3	3	4	2	45	0.5	28	23	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

B2: 531SAC002 – Mokelumne River at New Hope 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(%)
10/23/2001	100	100	100	100			
12/28/2004	100	100	100	100			
Count	2	2	2	2	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

B2: 531SAC002 – Mokelumne River at New Hope Road continued...

Date	Chronic Fathead Minnow - 7day					Chronic Ceriodaphnia Dubia - 6 day				
	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	89.7	97.5	0.21*	0.27	20					
1/26/2005	85.0	97.5	0.42	0.46	23					
2/23/2005	65.0*	100.0	0.39*	0.57	20					
03/29/2005 ²	97.5	100.0	0.51	0.42	14					
4/26/2005	84.6	92.5	0.36	0.39	27					
5/24/2005	66.7*	87.5	0.39	0.49	36					
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	90.0	100.0	0.54*	0.77	7.8					
9/27/2005	97.5	97.5	0.5	0.45	15					
Count	8	8	8	8	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

B3: 531SJC507 – Pixley Slough at Davis Road

Station Code: 531SJC507

Location: Latitude 38.05611, Longitude -121.33306

Date	Time	Temp (°C)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
10/24/2000	8:20 AM	12.6	61	7.0		
11/28/2000	DRY	DRY	DRY	DRY		
12/27/2000	DRY	DRY	DRY	DRY		
1/23/2001	DRY	DRY	DRY	DRY		
2/20/2001	9:01 AM	10.6	53	7.4		
3/27/2001	8:55 AM	15.1	73	6.9		
4/24/2001	10:00 AM	19.0	62	6.9		
5/29/2001	9:25 AM	18.7	73	6.7		
6/5/2001	7:24 AM	18.7	125	8.0	6.7	
6/19/2001	7:32 AM	21.7	54	7.9	7.4	
6/26/2001	9:16 AM	19.5	62	7.9	8.9	
7/24/2001	8:06 AM	22.2	98	7.4	6.3	
8/28/2001	8:11 AM	23.5	119	7.3	5.0	
9/25/2001	9:20 AM	18.7	90	7.6	7.3	
10/23/2001	8:35 AM	16.4	116	7.4	5.4	
11/27/2001	8:39 AM	7.9	239	7.4	8.6	
12/26/2001	9:33 AM	9.5	103	7.3	NA	
1/29/2002	8:09 AM	5.0	206	7.6	12.5	
2/26/2002	8:15 AM	DRY	DRY	DRY	DRY	
3/26/2002	8:43 AM	14.1	119	7.8	6.8	
4/23/2002	8:53 AM	17.4	69	7.2	7.0	
5/28/2002	8:15 AM	18.2	82	7.6	10.1	
6/18/2002	8:16 AM	20.1	71	7.2	6.6	
7/31/2002	9:41 AM	21.1	80	7.2	5.6	31.3
8/27/2002	8:55 AM	20.4	100	NA	NA	
9/24/2002	8:23 AM	20.2	115	6.9	5.0	
10/15/2002	11:20 AM	15.6	104	7.4	7.3	47.3
10/29/2002	9:20 AM	13.1	81	7.3	8.3	39.0
11/19/2002	DRY	DRY	DRY	DRY	DRY	
12/17/2002	7:41 AM	11.1	72	7.1	8.8	124
1/15/2003	1:03 PM	12.9	275	7.6	8.2	29.0
1/28/2003	8:15 AM	DRY	DRY	DRY	DRY	DRY
3/25/2003	8:06 AM	14.7	50	7.6	8.9	16.1
4/22/2003	8:07 AM	14.4	58	7.3	8.6	18.6
5/27/2003	8:51 AM	20.8	97	6.9	0.7	30.0
6/24/2003	11:39 AM	19.5	78	7.3	8.0	42.9
7/29/2003	11:30 AM	23.4	65	7.4	7.8	45.6
8/26/2003	8:58 AM	23.3	70	7.0	4.7	45.5
9/23/2003	8:59 AM	20.2	54	7.0	7.3	28.2

B3: 531SJC507 – Pixley Slough at Davis Road continued...

Date	Time	Temp (°C)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
10/28/2003	9:14 AM	16.2	51	7.3	9.1	16.5
11/18/2003	8:40 AM	11.4	94	7.3	9.0	91.0
1/28/2004	8:14 AM	9.7	193	7.4	13.5	57.7
2/24/2004	9:04 AM	13.0	98	7.5	9.9	70.1
3/24/2004	7:55 AM	DRY	DRY	DRY	DRY	DRY
4/28/2004	7:53 AM	19.9	66	7.3	5.0	42.5
5/26/2004	8:58 AM	19.0	70	7.3	7.6	22.1
6/23/2004	7:58 AM	19.7	88	9.4	7.3	NA
7/28/2004	8:20 AM	21.8	68	8.8	6.0	NA
8/25/2004	8:10 AM	21.1	60	7.6	4.7	NA
9/29/2004	8:28 AM	18.1	55	7.6	7.7	NA
10/27/2004	8:07 AM	13.4	53	7.9	9.8	
11/22/2004	9:14 AM	8.2	67	8.2	10.3	
12/28/2004	8:21 AM	8.8	70	8.0	11.5	
1/26/2005	8:45 AM	DRY	DRY	DRY	DRY	
2/23/2005	8:04 AM	12.6	96	7.4	5.6	
3/29/2005	9:17 AM	14.0	92	6.8	5.0	
4/26/2005	8:59 AM	13.0	51	7.7	10.7	
5/24/2005	8:23 AM	15.0	50	7.6	9.9	
6/28/2005	8:21 AM	16.5	48	7.1	9.4	
7/26/2005	8:15 AM	20.5	50	7.7	8.3	
8/23/2005	8:13 AM	21.2	74	7.6	6.0	
9/27/2005	8:46 AM	18.2	62	7.8	10.4	
Count		54	54	53	47	18
Min		5.0	48	6.7	0.7	16.1
Max		23.5	275	9.4	13.5	124
Mean		16.5	88	7.5	7.8	44.3
Geo Mean		15.8	80	7.5	7.3	38.0
Median		17.8	73	7.4	7.7	40.8
Quartile 1		13.0	61	7.2	6.2	28.4
Quartile 3		20.2	98	7.6	9.1	46.9

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

B3: 531SJC507 – Pixley Slough at Davis Road continued...

Date	TSS (mg/L)	TOC (mg/L)	Total Coli MPN	<i>E. coli</i> MPN
10/24/2000	15	1.3		
2/20/2001	57	2.6		
3/27/2001	<5	NA		
4/24/2001	9	3.3		
5/29/2001	26	1.2		
6/26/2001	25	3.0		
7/24/2001		3.8		
8/28/2001	26	8.0		
9/25/2001	NA			
10/23/2001		10		
3/26/2002		3.8		
4/23/2002		NA		
5/28/2002		10		
6/18/2002		1.0		
7/31/2002			>2419.6	387
8/27/2002		2.5		
9/24/2002		3.8		
10/15/2002			>2419.6	109
10/29/2002		1.7		
1/15/2003			1733	461
3/25/2003		1.6		
4/22/2003		3.6	>2419.6	613
5/27/2003		NA		
6/24/2003		NA		
7/29/2003			>2419.6	236
8/26/2003			>2419.6	488
9/23/2003			>2419.6	291
10/28/2003			>2419.6	98
11/18/2003			>2419.6	111
1/28/2004			>2419.6	>2419.6
2/24/2004			>2419.6	345
3/24/2004			DRY	DRY
4/28/2004			>2419.6	161
5/26/2004			>2419.6	1414
6/23/2004			>2419.6	387
7/28/2004			>2419.6	179
8/25/2004			>2419.6	51
9/29/2004			>2419.6	69
10/27/2004		3.9	>2419.6	>2419.6
11/22/2004		2.2	>2419.6	210
12/28/2004		2.0	>2419.6	276
1/26/2005		DRY	DRY	DRY

B3: 531SJC507 – Pixley Slough at Davis Road continued...

Date	TSS (mg/L)	TOC (mg/L)	Total Coli MPN	<i>E. coli</i> MPN
2/23/2005		5.4	1203	86
3/29/2005		7.6	>2419.6	1414
4/26/2005		NA	1986	194
5/24/2005		NA	>2419.6	276
6/28/2005		2.4	>2419.6	194
7/26/2005		NA	>2419.6	291
8/23/2005		2.2	>2419.6	131
9/27/2005		2.3	>2419.6	75

Count	7	24	28	28
Min	3	1.0	1203	51
Max	57	10	2420	2420
Mean	23	3.7	NA	NA
Geo Mean	16	3.0	2316	268
Median	25	2.8	2420	256
Quartile 1	12	2.2	2420	126
Quartile 3	26	3.8	2420	406

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

B3: 531SJC507 – Pixley Slough at Davis 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	<2		<2		<0.1	<1	1.2	0.7	1.0
2/20/2001	1.8		<2		0.3	0.1	2.6	3.7	7.0
3/27/2001	<2		<2		0.1	<1	1.6	1.5	2.7
4/24/2001	<2		<2		0.1	<1	1.6	1.3	2.3
5/29/2001	2.1		<2		0.1	<1	1.1	0.9	1.2
6/26/2001	<2		<2		0.1	<1	1.1	0.7	1.0
8/28/2001	<2		<2		0.3	<1	2.5		
9/25/2001	<2		<2		0.2	<1	2.7		
10/23/2001	<2		<2		<0.1	<1	2.9	1.0	1.8
11/27/2001	NA		NA		NA	0.1	5.4	1.9	4.0
12/26/2001	NA		NA		0.2	NA	2.6	1.7	4.1
1/29/2002	NA		1.4		0.2	NA	4.6	4.7	8.5
3/26/2002	NA		1.0		0.1	0.1	3.1	3.3	6.0
4/23/2002	NA		NA		NA	NA	1.5	1.5	2.4
5/28/2002	NA		NA		NA	0.1	1.8	1.2	2.0
6/18/2002	NA		0.5		NA	NA	1.3	1.0	1.7
8/27/2002	NA		0.9		0.4	0.4	NA	4.8	7.4
9/24/2002	NA		NA		0.1	0.1	2.3	1.1	2.2
10/29/2002	NA		0.5		0.1	<0.03	1.4	1.0	1.4
12/17/2002	NA		1.0		0.2	<0.03	2.3	2.8	4.6
Count	9	NA	15	NA	16	16	19	18	18
Min	1.0	NA	0.5	NA	0.1	0.02	1.1	0.7	1.0
Max	2.1	NA	1.4	NA	0.4	0.5	5.4	4.8	8.5
Mean	1.2	NA	1.0	NA	0.2	0.3	2.3	1.9	3.4
Geo Mean	1.2	NA	0.9	NA	0.1	0.2	2.1	1.6	2.7
Median	1.0	NA	1.0	NA	0.1	0.5	2.3	1.4	2.4
Quartile 1	1.0	NA	1.0	NA	0.1	0.1	1.5	1.0	1.7
Quartile 3	1.0	NA	1.0	NA	0.2	0.5	2.7	2.6	4.5

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

B3: 531SJC507 – Pixley Slough at Davis 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	22			<1	5.3	<5	5	7.0	
2/20/2001	22			3.5	7.9	5.8	5	59	
3/27/2001	26			<1	3.0	<5	5	12	
4/24/2001	22			<1	8.5	<5	5	15	
5/29/2001	29			<1	4.9	<5	5	12	
6/26/2001		<2	<1	<1	5.2	<5	5	10	<0.2
7/24/2001		NA	NA	1.3	4.5	<5	5	11	NA
8/28/2001	36	<2	<1	1.2	3.7	<5	5	9.4	
9/25/2001	34	<4	<0.1	1.4	5.1	<5	5	10	<0.2
10/23/2001	41	<4	<0.1	<1	2.3	<5	5	4.3	NA
11/27/2001	63	<4	<0.1	<1	5.0	<5	5	18	<0.2
12/26/2001		<4	<0.1	1.5	6.4	<5	5	39	<0.2
1/29/2002	61	<4	<0.1	<1	4.9	<5	5	36	<0.2
3/26/2002	45	<4.0	<0.1	1.8	7.3	<5.0	<5.0	27	<0.2
4/23/2002	27	<4.0	<0.1	<1.0	3.3	<5.0	<5.0	5.3	<0.2
5/28/2002	33	<4.0	<0.1	1.2	6.8	<5.0	<5.0	18	<0.2
6/18/2002	30	<4.0	<0.1	<1.0	3.9	<5.0	<5.0	12	<0.2
9/24/2002	45	<4.0	<0.1	1.1	14	<5.0	<5.0	7.2	<0.2
10/29/2002	33	<4.0	<0.1	<1.0	2.3	<5.0	<5.0	4.2	<0.2
3/25/2003	18	<4.0	<0.1	<1.0	2.8	<5.0	<5.0	10	<0.2
4/22/2003	21	<4.0	<0.1	<1.0	3.5	<5.0	<5.0	12	<0.2
5/27/2003	36	<4.0	<0.1	1.0	6.9	<5.0	<5.0	14	<0.2
6/24/2003	30	<4.0	<0.1	1.3	4.3	<5.0	<5.0	9.5	<0.2
Count	20	17	17	23	23	23	23	23	15
Min	18.0	1.0	0.1	0.5	2.3	2.5	2.5	4.2	0.1
Max	63.0	2.0	0.5	3.5	14.0	5.8	2.5	59.0	0.1
Mean	33.7	1.9	0.1	0.9	5.3	2.6	2.5	15.7	0.1
Geo Mean	31.8	1.8	0.1	0.8	4.8	2.6	2.5	12.4	0.1
Median	31.5	2.0	0.1	0.5	4.9	2.5	2.5	12.0	0.1
Quartile 1	25.0	2.0	0.1	0.5	3.6	2.5	2.5	9.5	0.1
Quartile 3	37.3	2.0	0.1	1.3	6.6	2.5	2.5	16.5	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

B3: 531SJC507 – Pixley Slough at Davis 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	22								
2/20/2001	22			<1	2.7	<5	ϕ	20	
3/27/2001	26			<1	2.1	<5	ϕ	9.6	
4/24/2001	22			<1	6.1	<5	ϕ	12	
5/29/2001	29			<1	2.1	<5	ϕ	4.6	
6/26/2001		<2	<1	<1	1.3	<5	ϕ	2.0	<0.2
7/24/2001		NA	NA	NA	NA	NA	NA	NA	NA
8/28/2001	36	<2	<1	<1	1.9	<5	ϕ	3.5	
9/25/2001	34	<4	<0.1	<1	4.2	<5	ϕ	18	<0.2
10/23/2001	41	<4	<0.1	<1	2.1	<5	ϕ	2.5	NA
11/27/2001	63	<4	<0.1	<1	4.4	<5	ϕ	19	<0.2
12/26/2001		<4	<0.1	<1	4.1	<5	ϕ	26	<0.2
1/29/2002	61	<4	<0.1	<1	2.5	<5	ϕ	15	<0.2
3/26/2002	45	<4.0	<0.1	<1.0	4.1	<5.0	ϕ.0	10	<0.2
4/23/2002	27	<4.0	<0.1	<1.0	3.6	<5.0	ϕ.0	3.5	<0.2
5/28/2002	33	<4.0	<0.1	<1.0	3.4	<5.0	ϕ.0	3.5	<0.2
6/18/2002	30	<4.0	<0.1	<1.0	1.4	<5.0	ϕ.0	5	<0.2
9/24/2002	45	<4.0	<0.1	<1.0	4.7	<5.0	ϕ.0	5.2	<0.2
10/29/2002	33	<4.0	<0.1	<1.0	2.3	<5.0	ϕ.0	2.7	<0.2
Count	16	13	13	17	17	17	17	17	11
Min	22.0	1.0	0.1	0.5	1.3	2.5	2.5	2.0	0.1
Max	63.0	2.0	0.5	0.5	6.1	2.5	2.5	26.0	0.1
Mean	35.6	1.8	0.1	0.5	3.1	2.5	2.5	9.5	0.1
Geo Mean	33.7	1.8	0.1	0.5	2.9	2.5	2.5	7.0	0.1
Median	33.0	2.0	0.1	0.5	2.7	2.5	2.5	5.2	0.1
Quartile 1	26.8	2.0	0.1	0.5	2.1	2.5	2.5	3.5	0.1
Quartile 3	42.0	2.0	0.1	0.5	4.1	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

B3: 531SJC507 – Pixley Slough at Davis 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	3	3	6	2	70	<1	20	20	3
2/20/2001	3	3	5	2	64	<1	23	21	3
3/27/2001	4	4	7	2	NA	<1	33	27	4
4/24/2001	3	3	6	2	35	<1	30	25	3
5/29/2001	3	3	7	3	57	<1	26	26	4
8/28/2001	5	5	10	3	120	<1	55	45	6
9/25/2001	4	4	8	3	NA	<1	41	34	5
10/23/2001	6	5	10	4	NA	<1	51	42	6
11/27/2001	40	7	18	4	140	<1	46	38	16
1/29/2002	25	7	17	5	120	<1	55	45	15
3/26/2002	6	5	12	4	100	<1.0	50	40	7
4/23/2002	4	3	7	3	<10	<1.0	29	24	4
5/28/2002	4	4	8	3	NA	<1.0	35	29	4
6/18/2002	19	22	7	3	NA	<1.0	39	NA	4
9/24/2002	7	5	11	4	NA	<1.0	46	38	5
10/29/2002	5	4	8	3	100	<1.0	37	30	5
3/25/2003	3	3	5	2					
4/22/2003	4	3	5	2					
5/27/2003	4	3	9	3					
6/24/2003	4	4	8	3					
Count	20	20	20	20	10	16	16	15	16
Min	3	3	5	2	5	0.5	20	20	3
Max	40	22	18	5	140	0.5	55	45	16
Mean	8	5	9	3	81	0.5	39	32	6
Geo Mean	5	4	8	3	62	0.5	37	31	5
Median	4	4	8	3	85	0.5	38	30	5
Quartile 1	4	3	7	2	59	0.5	30	26	4
Quartile 3	6	5	10	3	120	0.5	47	39	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

B3: 531SJC507 – Pixley Slough at Davis 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(%)
11/22/2004	100	100	100	100			
12/28/2004	97.5	100	100	100			
2/23/2005	100	100	100	100			
3/29/2005	100	100	100	100			
4/26/2005	87.5*	100	100	100			
5/24/2005	87.5*	100	100	100			
6/28/2005	85*	100	100	100			
7/26/2005	100	100	100	100			
8/23/2005	97.5	100	100	100			
9/27/2005	100	100	100	100			
Count	10	10	10	10	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

B4: 544SJC508 – Bear Creek at Thornton Road (J8)

Station Code: 544SJC508

Location: Latitude 38.04306, Longitude -121.34861

Date	Time	Temp (°C)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
10/24/2000	8:45 AM	11.7	132	7.0		
11/28/2000	9:20 AM	9.2	210	7.0		
12/27/2000	9:00 AM	5.6	261	7.3		
1/23/2001	9:00 AM	7.6	308	8.8		
2/20/2001	9:19 AM	10.8	93	7.1		
3/27/2001	9:10 AM	16.1	117	6.9		
4/24/2001	10:32 AM	19.9	94	6.8		
5/29/2001	9:00 AM	19.4	85	6.3		
6/5/2001	7:12 AM	19.8	111	7.8	6.4	
6/19/2001	7:50 AM	24.2	57	7.7	7.1	
6/26/2001	8:53 AM	20.3	481	7.7	8.7	
7/24/2001	8:21 AM	22.3	84	7.3	4.9	
8/28/2001	8:29 AM	23.2	76	7.1	4.8	
9/25/2001	9:06 AM	19.0	106	7.4	6.1	
10/23/2001	9:02 AM	16.4	148	7.7	8.1	
11/27/2001	8:28 AM	8.5	77	7.7	7.5	
12/26/2001	9:16 AM	9.3	211	7.0	NA	
1/29/2002	7:55 AM	6.6	198	7.7	11.8	
2/26/2002	7:52 AM	13.2	232	7.8	10.5	
3/26/2002	8:59 AM	14.4	192	7.7	7.9	
4/23/2002	9:19 AM	18.0	71	7.3	8.3	
5/28/2002	8:31 AM	19.5	73	7.5	9.0	
6/18/2002	8:34 AM	20.7	124	7.3	6.7	
7/31/2002	10:11 AM	21.7	94	7.1	6.3	39.1
8/27/2002	9:10 AM	20.8	116	NA	NA	
1/15/2003	12:44 PM	13.2	239	7.6	9.2	21.6
Count		26	26	25	16	2
Min		5.6	57	6.3	4.8	21.6
Max		24.2	481	8.8	11.8	39.1
Mean		15.8	153	7.4	7.7	30.4
Geo Mean		14.7	132	7.4	7.5	29.1
Median		17.2	117	7.3	7.7	30.4
Quartile 1		11.0	87	7.1	6.4	26.0
Quartile 3		20.2	207	7.7	8.8	34.7

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

B4: 544SJC508 – Bear Creek at Thorton Road (J8) continued ...

Date	TSS (mg/L)	TOC (mg/L)	Total Coli MPN	<i>E. coli</i> MPN
10/24/2000	11	3.6		
11/28/2000	<8	9.7		
12/27/2000	<5	6.5		
1/23/2001	6	18.0		
2/20/2001	25	5.8		
3/27/2001	10	NA		
4/24/2001	19	4.7		
5/29/2001	21	2.4		
6/26/2001	30	23		
7/24/2001		2.8		
8/28/2001	18	4.2		
9/25/2001	NA			
<hr/>				
10/23/2001		8.6		
2/26/2002		NA		
3/26/2002		6.8		
4/23/2002		NA		
5/28/2002		6.6		
6/18/2002		4.8		
7/31/2002			>2419.6	166
8/27/2002		2.9		
<hr/>				
1/15/2003			411	46
<hr/>				
Count	10	15	2	2
Min	3	2.4	411	46
Max	30	23	2420	166
Mean	15	7.4	NA	NA
Geo Mean	11	5.9	997	87
Median	15	5.8	1416	106
Quartile 1	7	3.9	913	76
Quartile 3	21	7.7	1918	136

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

B4: 544SJC508 – Bear Creek at Thornton Road (J8) 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	<2		<2		0.2	<1	7.9	0.9	1.8
11/28/2000	2.8		<2		0.1	<1	5.8	2.4	4.1
12/27/2000	<2		<2		<0.1	<1	11	1.0	1.6
1/23/2001	4.6		2.5		0.5	1.1	19	2.0	6.2
2/20/2001	2.6		<2		0.3	0.2	3.9	4.0	7.4
3/27/2001	<2		<2		0.2	<1	5.2	2.3	3.9
4/24/2001	5.4		<2		0.1	<1	2.8	1.8	3.7
5/29/2001	2.3		<2		0.1	<1	1.4	1.0	1.6
6/26/2001	2.3		<2		0.2	<1	2.2	8.4	14.5
8/28/2001	<2		<2		0.2	<1	1.6		
9/25/2001	2.6		<2		<0.1	<1	2.4		
10/23/2001	<2		<2		0.3	<1	3.9	2.0	3.6
11/27/2001	NA		NA		NA	0.1	3.5	2.3	4.3
12/26/2001	NA		NA		1.0	NA	14	2.7	7.3
1/29/2002	NA		1.6		0.3	0.2	9.9	4.6	8.3
2/26/2002	NA		NA		0.5	0.3	11	2.9	4.9
3/26/2002	NA		1.6		0.4	0.4	8.7	3.2	6.0
4/23/2002	NA		NA		NA	NA	1.7	1.2	2.4
5/28/2002	NA		NA		NA	0.1	2.3	0.8	1.3
6/18/2002	NA		0.7		NA	0.1	18	1.2	2.3
8/27/2002	NA		0.5		0.1	0.1	NA	0.4	0.9
Count	12	NA	16	NA	17	19	20	19	19
Min	1.0	NA	0.5	NA	0.1	0.1	1.4	0.4	0.9
Max	5.4	NA	2.5	NA	1.0	1.1	19.0	8.4	14.5
Mean	2.3	NA	1.1	NA	0.3	0.4	6.8	2.4	4.5
Geo Mean	1.9	NA	1.1	NA	0.2	0.3	5.0	1.9	3.6
Median	2.3	NA	1.0	NA	0.2	0.5	4.6	2.0	3.9
Quartile 1	1.0	NA	1.0	NA	0.1	0.2	2.4	1.1	2.1
Quartile 3	2.7	NA	1.0	NA	0.3	0.5	10.2	2.8	6.1

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

B4: 544SJC508 – Bear Creek at Thorton Road (J8) 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	39			<1	6.2	<5	<5	6.4	
11/28/2000	66			<1	4.8	<5	<5	13	
12/27/2000	82			<1	3.6	<5	<5	6.3	
1/23/2001	96			<1	7.3	<5	<5	6.8	
2/20/2001	31			1.8	6.2	<5	<5	35	
3/27/2001	38			<1	4.3	<5	<5	10	
4/24/2001	34			<1	8.6	<5	<5	13	
5/29/2001	33			<1	4.2	<5	<5	7.2	
6/26/2001		<2	<1	1.6	6.8	<5	<5	18	<0.2
7/24/2001		NA	NA	<1	3.3	<5	<5	9.7	NA
8/28/2001	22	<2	<1	1.0	2.6	<5	<5	6.4	
9/25/2001	39	<4	<0.1	<1	2.8	<5	<5	5.2	<0.2
10/23/2001	58	<4	<0.1	<1	4.2	<5	<5	11	NA
11/27/2001	23	<4	<0.1	1.2	5.0	<5	<5	14	<0.2
12/26/2001		<4	<0.1	1.7	10	<5	<5	16	<0.2
1/29/2002	64	<4	<0.1	<1	5.1	<5	<5	11	<0.2
3/26/2002	63	<4.0	<0.1	<1.0	6.6	<5.0	<5.0	11	<0.2
4/23/2002	26	<4.0	<0.1	<1.0	2.7	<5.0	<5.0	4.5	<0.2
5/28/2002	25	<4.0	<0.1	1.0	4.2	<5.0	<5.0	6.0	<0.2
6/18/2002	45	<4.0	<0.1	<1.0	3.0	<5.0	<5.0	5.0	<0.2
Count	17	11	11	20	20	20	20	20	9
Min	22.0	1.0	0.1	0.5	2.6	2.5	2.5	4.5	0.1
Max	96.0	2.0	0.5	1.8	10.0	2.5	2.5	35.0	0.1
Mean	46.1	1.8	0.1	0.8	5.1	2.5	2.5	10.8	0.1
Geo Mean	41.8	1.8	0.1	0.7	4.7	2.5	2.5	9.4	0.1
Median	39.0	2.0	0.1	0.5	4.6	2.5	2.5	9.9	0.1
Quartile 1	31.0	2.0	0.1	0.5	3.5	2.5	2.5	6.4	0.1
Quartile 3	63.0	2.0	0.1	1.0	6.3	2.5	2.5	13.0	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

B4: 544SJC508 – Bear Creek at Thornton Road (J8) 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	39								
11/28/2000	66			<1	4.2	<5	<5	11	
12/27/2000	82			<1	2.8	<5	<5	5.0	
1/23/2001	96			<1	4.4	<5	<5	4.1	
2/20/2001	31			<1	3.3	<5	<5	18	
3/27/2001	38			<1	3.2	<5	<5	7.6	
4/24/2001	34			<1	6.3	<5	<5	8.4	
5/29/2001	33			<1	2.0	<5	<5	3.6	
6/26/2001		<2	<1	<1	3.8	<5	<5	8.6	<0.2
7/24/2001		NA	NA	NA	NA	NA	NA	NA	NA
8/28/2001	22	<2	<1	<1	<1	<5	<5	3.2	
9/25/2001	39	<4	<0.1	<1	1.9	<5	<5	3.8	<0.2
10/23/2001	58	<4	<0.1	<1	2.5	<5	<5	10	NA
11/27/2001	23	<4	<0.1	<1	3.6	<5	<5	12	<0.2
12/26/2001		<4	<0.1	<1	8.2	<5	<5	12	<0.2
1/29/2002	64	<4	<0.1	<1	2.9	<5	<5	4.6	<0.2
3/26/2002	63	<4.0	<0.1	<1.0	4.8	<5.0	<5.0	7.9	<0.2
4/23/2002	26	<4.0	<0.1	<1.0	3.4	<5.0	<5.0	5.4	<0.2
5/28/2002	25	<4.0	<0.1	<1.0	2.6	<5.0	<5.0	4.1	<0.2
6/18/2002	45	<4.0	<0.1	<1.0	1.9	<5.0	<5.0	3.4	<0.2
Count	17	11	11	18	18	18	18	18	9
Min	22.0	1.0	0.1	0.5	0.5	2.5	2.5	3.2	0.1
Max	96.0	2.0	0.5	0.5	8.2	2.5	2.5	18.0	0.1
Mean	46.1	1.8	0.1	0.5	3.5	2.5	2.5	7.4	0.1
Geo Mean	41.8	1.8	0.1	0.5	3.0	2.5	2.5	6.5	0.1
Median	39.0	2.0	0.1	0.5	3.3	2.5	2.5	6.5	0.1
Quartile 1	31.0	2.0	0.1	0.5	2.5	2.5	2.5	4.1	0.1
Quartile 3	63.0	2.0	0.1	0.5	4.1	2.5	2.5	9.7	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

B4: 544SJC508 – Bear Creek at Thorton Road (J8) 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	8	5	9	4	87	<1	60	50	7
11/28/2000	16	10	17	6	140	<1	80	70	13
12/27/2000	17	9	19	9	170	<1	110	90	16
1/23/2001	16	14	21	10	190	<1	130	110	17
2/20/2001	6	5	8	3	95	<1	37	30	5
3/27/2001	7	5	9	4	NA	<1	51	42	7
4/24/2001	4	4	9	3	56	<1	46	38	4
5/29/2001	4	3	8	3	48	<1	30	30	4
8/28/2001	4	3	6	2	58	<1	32	27	4
9/25/2001	5	5	10	4	NA	<1	45	37	5
10/23/2001	6	6	14	6	NA	<1	72	59	8
11/27/2001	6	4	6	2	76	<1	26	21	4
1/29/2002	11	9	15	6	130	<1	79	65	12
3/26/2002	11	6	15	6	150	<1.0	80	70	12
4/23/2002	4	3	6	2	45	<1.0	28	23	4
5/28/2002	5	3	6	3	NA	<1.0	27	22	4
6/18/2002	9	7	10	5	NA	<1.0	53	NA	7
Count	17	17	17	17	12	17	17	16	17
Min	4	3	6	2	45	0.5	26	21	4
Max	17	14	21	10	190	0.5	130	110	17
Mean	8	6	11	5	104	0.5	58	49	8
Geo Mean	7	5	10	4	92	0.5	51	43	7
Median	6	5	9	4	91	0.5	51	40	7
Quartile 1	5	4	8	3	58	0.5	32	29	4
Quartile 3	11	7	15	6	140	0.5	79	66	12

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

B5: 531SJC515 – Bear Creek at Lower Sacramento Road

Station Code: 531SJC515

Location: Latitude 38.04278, Longitude -121.32139

Date	Time	Temp (°C)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
9/24/2002	8:48 AM	21.4	71	7.8	4.6	
10/15/2002	11:35 AM	15.6	105	7.0	6.1	16.2
10/29/2002	8:57 AM	11.2	231	7.6	7.4	22.7
11/19/2002	8:01 AM	8.5	229	7.5	5.9	
12/17/2002	7:24 AM	10.7	210	7.2	7.9	191
1/28/2003	8:25 AM	11.3	241	7.5	7.2	14.3
3/25/2003	8:17 AM	13.7	231	7.1	6.2	35.4
4/22/2003	8:21 AM	14.7	94	7.1	7.6	24.3
5/27/2003	9:05 AM	21.6	63	7.1	5.6	45.0
6/24/2003	12:06 PM	23.1	78	7.0	5.3	128
7/29/2003	11:15 AM	25.9	76	7.5	6.3	71.2
8/26/2003	9:12 AM	24.6	82	6.9	3.9	68.6
9/23/2003	9:12 AM	21.5	56	6.9	6.2	49.9
10/28/2003	9:32 AM	16.3	77	7.3	7.9	12.9
11/18/2003	8:54 AM	10.5	108	7.5	11.7	37.3
1/28/2004	8:28 AM	9.0	236	7.6	13.9	11.6
2/24/2004	9:15 AM	12.7	258	7.4	9.0	77.0
3/24/2004	8:05 AM	16.5	228	7.3	5.8	14.9
4/28/2004	8:04 AM	18.6	184	7.1	4.1	27.4
5/26/2004	9:11 AM	21.1	78	7.2	6.3	27.0
6/23/2004	8:08 AM	21.7	55	7.2	6.1	NA
7/28/2004	8:35 AM	23.6	95	7.8	4.1	NA
8/25/2004	8:28 AM	20.6	69	6.9	2.4	NA
9/29/2004	8:45 AM	17.7	68	7.2	3.7	NA
10/27/2004	8:32 AM	13.2	297	7.3	5.8	
11/22/2004	9:31 AM	7.2	295	7.5	5.8	
12/28/2004	8:42 AM	8.8	378	7.3	4.1	
1/26/2005	8:53 AM	9.9	250	7.5	8.1	
2/23/2005	8:18 AM	13.8	211	7.5	8.3	
3/29/2005	9:33 AM	13.9	196	7.2	8.5	
4/26/2005	9:17 AM	16.0	69	7.5	9.5	
5/24/2005	8:37 AM	19.0	57	7.5	8.3	
6/28/2005	8:40 AM	19.9	59	7.1	7.7	
7/26/2005	8:33 AM	21.5	68	7.3	5.4	
8/23/2005	8:34 AM	21.9	162	7.3	6.7	
9/27/2005	9:11 AM	18.4	153	7.6	11.7	

B5: 531SJC515 – Bear Creek at Lower Sacramento Road continued...

Date	Time	Temp (°C)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
Count		36	36	36	36	18
Min		7.2	55	6.9	2.4	11.6
Max		25.9	378	7.8	13.9	191
Mean		16.5	151	7.3	6.8	48.6
Geo Mean		15.7	126	7.3	6.4	34.8
Median		16.4	107	7.3	6.3	31.4
Quartile 1		12.4	71	7.1	5.6	17.8
Quartile 3		21.4	230	7.5	8.0	63.9

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

B5: 531SJC515 – Bear Creek at Lower Sacramento Road continued...

Date	TSS (mg/L)	TOC (mg/L)	Total Coli MPN	<i>E. coli</i> MPN
9/24/2002		3.7		
10/15/2002			>2419.6	58
10/29/2002		6.7		
11/19/2002		7.0		
3/25/2003		9.9		
4/22/2003		4.9	>2419.6	50
5/27/2003		NA		
6/24/2003		NA		
7/29/2003			>2419.6	105
8/26/2003			>2419.6	167
9/23/2003			>2419.6	1203
10/28/2003			>2419.6	86
11/18/2003			>2419.6	>2419.6
1/28/2004			1733	15
2/24/2004			>2419.6	727
3/24/2004			>2419.6	16
4/28/2004			>2419.6	54
5/26/2004			>2419.6	31
6/23/2004			>2419.6	96
7/28/2004			>2419.6	>2419.6
8/25/2004			>2419.6	18
9/29/2004			>2419.6	20
10/27/2004		15	>2419.6	102
11/22/2004		14	>2419.6	68
12/28/2004		10	>2419.6	15
1/26/2005		13	1733	76
2/23/2005		16	1553	37
3/29/2005		13	>2419.6	145
4/26/2005		NA	>2419.6	96
5/24/2005		NA	>2419.6	548
6/28/2005		2.9	>2419.6	102
7/26/2005		NA	>2419.6	2420
8/23/2005		4.3	>2419.6	126
9/27/2005		4.1	>2419.6	133
Count	NA	14	28	28
Min	NA	2.9	1553	15
Max	NA	16	2420	2420
Mean	NA	8.9	NA	NA
Geo Mean	NA	7.7	2326	113
Median	NA	8.5	2420	96
Quartile 1	NA	4.5	2420	47
Quartile 3	NA	13	2420	151

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

B5: 531SJC515 – Bear Creek at Lower Sacramento 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)
9/24/2002	NA		NA		0.8	NA	1.9	1.3	2.2
10/29/2002	NA		0.8		0.1	NA	9.9	0.9	1.5
11/19/2002	NA		0.8		0.1	0.1	10	1.5	2.7
12/17/2002	NA		3.7		1.4	<0.03	17	8	16.4
1/28/2003	NA		1.5		0.4	0.3	12	1.3	2.5
Count	NA	NA	4	NA	5	3	5	5	5
Min	NA	NA	0.8	NA	0.1	0.02	1.9	0.9	1.5
Max	NA	NA	3.7	NA	1.4	0.3	17.0	8.0	16.4
Mean	NA	NA	1.7	NA	0.6	0.1	10.2	2.6	5.1
Geo Mean	NA	NA	1.4	NA	0.3	0.1	8.3	1.8	3.3
Median	NA	NA	1.2	NA	0.4	0.1	10.0	1.3	2.5
Quartile 1	NA	NA	0.8	NA	0.1	0.1	9.9	1.3	2.2
Quartile 3	NA	NA	2.1	NA	0.8	0.2	12.0	1.5	2.7

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

B5: 531SJC515 – Bear Creek at Lower Sacramento 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)
9/24/2002	25	<4.0	<0.1	1.1	14	<5.0	<5.0	7.2	<0.2
10/29/2002	73	<4.0	<0.1	<1.0	3.8	<5.0	<5.0	3.7	<0.2
11/19/2002	69	<4.0	<0.1	<1.0	2.5	<5.0	<5.0	5.4	<0.2
3/25/2003	74	<4.0	<0.1	1.1	4.0	<5.0	<5.0	3.7	<0.2
4/22/2003	32	<4.0	<0.1	<1.0	3.5	<5.0	<5.0	5.5	<0.2
5/27/2003	23	<4.0	<0.1	2.1	5.2	<5.0	<5.0	8.8	<0.2
6/24/2003	28	<4.0	<0.1	4.1	6.8	<5.0	<5.0	14	<0.2
Count	7	7	7	7	7	7	7	7	7
Min	23.0	2.0	0.1	0.5	2.5	2.5	2.5	3.7	0.1
Max	74.0	2.0	0.1	4.1	14.0	2.5	2.5	14.0	0.1
Mean	46.3	2.0	0.1	1.4	5.7	2.5	2.5	6.9	0.1
Geo Mean	40.9	2.0	0.1	1.0	4.9	2.5	2.5	6.2	0.1
Median	32.0	2.0	0.1	1.1	4.0	2.5	2.5	5.5	0.1
Quartile 1	26.5	2.0	0.1	0.5	3.7	2.5	2.5	4.6	0.1
Quartile 3	71.0	2.0	0.1	1.6	6.0	2.5	2.5	8.0	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

B5: 531SJC515 – Bear Creek at Lower Sacramento 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)
9/24/2002	25	<4.0	<0.1	<1.0	3.3	<5.0	<5.0	4.4	<0.2
10/29/2002	73	<4.0	<0.1	<1.0	3	<5.0	<5.0	2.2	<0.2
11/19/2002	69	<4.0	<0.1	<1.0	1.8	<5.0	<5.0	2.9	<0.2
Count	3	3	3	3	3	3	3	3	3
Min	25.0	2.0	0.1	0.5	1.8	2.5	2.5	2.2	0.1
Max	73.0	2.0	0.1	0.5	3.3	2.5	2.5	4.4	0.1
Mean	55.7	2.0	0.1	0.5	2.7	2.5	2.5	3.2	0.1
Geo Mean	50.1	2.0	0.1	0.5	2.6	2.5	2.5	3.0	0.1
Median	69.0	2.0	0.1	0.5	3.0	2.5	2.5	2.9	0.1
Quartile 1	47.0	2.0	0.1	0.5	2.4	2.5	2.5	2.6	0.1
Quartile 3	71.0	2.0	0.1	0.5	3.2	2.5	2.5	3.7	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

B5: 531SJC515 – Bear Creek at Lower Sacramento 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)
9/24/2002	4	3	6	3	NA	<1.0	29	24	4
10/29/2002	15	6	16	8	190	<1.0	100	84	16
11/19/2002	19	8	15	8	160	<1.0	87	71	16
3/25/2003	12	6	16	8					
4/22/2003	5	3	7	3					
5/27/2003	4	3	5	2					
6/24/2003	4	3	6	3					
Count	7	7	7	7	2	3	3	3	3
Min	4	3	5	2	160	0.5	29	24	4
Max	19	8	16	8	190	0.5	100	84	16
Mean	9	5	10	5	180	0.5	72	60	12
Geo Mean	7	4	9	4	170	0.5	63	52	10
Median	5	3	7	3	180	0.5	87	71	16
Quartile 1	4	3	6	3	170	0.5	58	48	10
Quartile 3	14	6	16	8	180	0.5	94	78	16

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

NA = Data not applicable

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DRY = Site had no flow

B5: 531SJC515 – Bear Creek at Lower Sacramento 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 (%)
11/22/2004	100	100	100	100			
1/26/2005	95	97.5	100	100			
2/23/2005	95	100	100	100			
3/29/2005	100	100	95	100			
4/26/2005	72.5*	100	100	100			
5/24/2005	95	100	100	100			
6/28/2005	100	100	100	100			
8/23/2005	95	100	100	100			
9/27/2005	100	100	100	100			
Count	9	9	9	9	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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INA = Site was inaccessible

DRY = Site had no flow