APPENDIX G

SOUTH DELTA BASIN

APPENDIX G: SOUTH DELTA BASIN

G1: 544SJC001 – New Jerusalem Tile Drain

Station Code: 544SJC001

Location: Latitude 37.70889, Longitude -121.29861

Date	Time	Temp (ºC)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
10/24/2000	12:45 PM	20.0	2380	7.6		
11/28/2000	1:42 PM	16.5	2390	7.9		
12/27/2000	12:00 PM	16.7	2550	7.9		
1/23/2001	11:45 AM	16.1	2480	7.8		
2/20/2001	12:05 PM	16.0	2600	8.0		
3/27/2001	12:21 PM	18.6	2760	7.5		
4/24/2001	2:00 PM	20.7	2420	7.4		
5/29/2001	12:55 PM	19.9	2540	7.2		
6/26/2001	1:39 PM	18.0	2580	7.3	10.3	
7/24/2001	11:08 AM	18.9	2740	7.4	9.4	
8/28/2001	9:55 AM	19.1	2340	7.4	10.6	
9/25/2001	11:47 AM	19.2	2230	7.6	10.8	
10/23/2001	11:23 AM	19.5	2440	7.9	9.7	
11/27/2001	11:15 AM	19.0	1340	8.0	9.2	
12/26/2001	1:12 PM	13.6	2670	8.2	NA	
1/29/2002	10:41 AM	17.3	2790	8.1	11.2	
2/26/2002	10:41 AM	17.5	2590	8.0	9.3	
3/26/2002	12:20 PM	15.0	1730	7.9	10.1	
4/23/2002	1:12 PM	17.1	2570	7.5	10.1	
5/28/2002	11:10 AM	17.7	2390	7.5	11.8	
6/18/2002	11:18 AM	17.9	2560	7.4	9.1	
7/31/2002	9:20 AM	18.5	2560	7.6	8.9	2.4
8/27/2002	NA	20.3	2370	NA	NA	
9/24/2002	11:41 AM	19.3	2430	7.6	10.1	
10/15/2002	8:40 AM	19.2	2280	7.6	9.2	0.2
10/29/2002	1:15 PM	19.2	2290	7.7	9.2	0.2
11/19/2002	11:01 AM	19.0	2260	7.7	9.8	
12/17/2002	10:14 AM	18.0	2060	7.9	9.5	290
1/15/2003	INA	INA	INA	INA	INA	INA
1/28/2003	10:30 AM	INA	INA	INA	INA	INA
3/25/2003	10:15 AM	17.4	2300	7.7	10.9	2.6
4/22/2003	10:45 AM	17.2	2660	7.6	11.7	13.9
5/27/2003	11:29 AM	17.4	2510	7.1	9.6	38.3
6/24/2003	9:34 AM	17.8	2280	7.4	10.3	35.5
7/29/2003	9:35 AM	18.8	2410	7.4	8.3	2.5
8/26/2003	11:01 AM	19.1	2550	7.5	9.7	0.7
9/23/2003	10:42 AM	19.4	2440	7.7	10.2	0.9
10/28/2003	12:27 PM	19.6	2250	7.9	11.2	5.7
11/18/2003	11:52 AM	19.4	2320	8.3	12.6	6.6
1/28/2004	INA	INA	INA	INA	INA	INA

G1: 544SJC001 – New Jerusalem Tile Drain continued…

Date	Time	Temp (ºC)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
2/24/2004	10:55 AM	15.6	2240	8.1	10.3	NA
5/26/2004	10:55 AM	INA	INA	INA	INA	INA
6/23/2004	9:47 AM	18.2	2530	7.5	11.9	NA
7/28/2004	10:27 AM	19.4	2190	7.4	11.0	NA
8/25/2004	10:38 AM	19.2	2510	7.4	9.9	NA
9/29/2004	10:43 AM	19.4	2240	7.3	11.2	NA
10/27/2004	10:43 AM	INA	INA	INA	INA	INA
11/22/2004	11:24 AM	11.0	2540	8.1	10.1	
12/28/2004	10:10 AM	INA	INA	INA	INA	INA
1/26/2005	10:25 AM	17.5	2650	8.0	9.1	
2/23/2005	9:53 AM	17.4	2620	7.8	10.1	
3/29/2005	11:00 AM	INA	INA	INA	INA	
3/31/2005	12:49 PM	17.1	2550	7.5	10.6	
4/26/2005	10:50 AM	17.2	2770	7.4	11.3	
5/24/2005	10:05 AM	17.4	2550	7.2	9.2	
6/28/2005	10:12 AM	17.9	2450	7.3	9.7	
7/26/2005	10:08 AM	18.6	2320	7.3	9.3	
8/23/2005	10:14 AM	19.1	2340	7.2	9.1	
9/27/2005	10:59 AM	19.1	2290	7.4	14.6	
Count		52	52	51	42	13
Min		11.0	1340	7.1	8.3	0.2
Max		20.7	2790	8.3	14.6	290
Mean		18.0	2420	7.6	10.2	30.7
Geo Mean		17.9	2410	7.6	10.2	4.1
Median		18.4	2440	7.6	10.1	2.6
Quartile 1		17.4	2300	7.4	9.3	0.9
Quartile 3		19.2	2560	7.9	10.9	13.9

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

G1: 544SJC001 – New Jerusalem Tile Drain continued…

Date	TSS (mg/L)	TOC (mg/L)	Total Coli MPN	*E. coli* MPN
10/24/2000	<6	<1		
11/28/2000	<6	<1		
12/27/2000	<5	<1		
1/23/2001	<5	1.5		
2/20/2001	<5.5	<1		
3/27/2001	<5	NA		
4/24/2001	12	3.2		
5/29/2001	<5	3.1		
6/26/2001	33	7.8		
7/24/2001		4.8		
8/28/2001	<6	21		
9/25/2001	NA	21		
10/23/2001		20		
2/26/2002		NA		
3/26/2002		2.1		
4/23/2002		NA		
5/28/2002		<1.0		
6/18/2002		2.1		
7/31/2002			>2419.6	4
8/27/2002		1.7		
9/24/2002		2.2		
10/15/2002			548	8
10/29/2002		1.5		
11/19/2002		1.4		
1/15/2003			INA	INA
3/25/2003		1.8		
4/22/2003		2.6	1986	9
5/27/2003		NA		
6/24/2003		NA		
7/29/2003			1986	4
8/26/2003			>2419.6	15
9/23/2003			1120	16
10/28/2003			236	1
11/18/2003			548	<1
1/28/2004			INA	INA
2/24/2004			135	<1
5/26/2004			INA	INA
6/23/2004			>2419.6	6
7/28/2004			>2419.6	18
8/25/2004			>2419.6	2
9/29/2004			1986	4
10/27/2004		INA	INA	INA
11/22/2004		<0.20	365	6
12/28/2004		INA	INA	INA

G1: 544SJC001 – New Jerusalem Tile Drain continued…

Date	TSS (mg/L)	TOC (mg/L)	Total Coli MPN	*E. coli* MPN
1/26/2005		<0.20	222	<1
2/23/2005		<0.20	52	1
3/29/2005		INA	INA	INA
3/31/2005		2.2	548	5
4/26/2005		NA	>2419.6	12
5/24/2005		NA	>2419.6	15
6/28/2005		1.9	>2419.6	3
7/26/2005		NA	>2419.6	22
8/23/2005		2.2	2420	1
9/27/2005		2.4	>2419.6	27
Count	10	28	23	20
Min	3	0.10	52	1
Max	33	21	2420	27
Mean	7	3.9	NA	NA
Geo Mean	4	1.6	1052	6
Median	3	2.0	1986	6
Quartile 1	3	0.5	548	4
Quartile 3	3	2.7	2420	15

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

G1: 544SJC001 – New Jerusalem Tile Drain 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	77		<2		<0.1	<1	19	<0.1	<0.1
11/28/2000	NA		<2		<0.1	<1	4.2	0.1	0.1
12/27/2000	59		<2		<0.1	<1	4.4	<0.1	<0.1
1/23/2001	61		<2		<0.1	<1	4.1	0.2	0.2
2/20/2001	69		<2		<0.1	0.1	3.9	<0.1	<0.1
3/27/2001	53		<2		<0.1	<1	4.1	<0.1	<0.1
4/24/2001	60		<2		NA	<1	4.9	0.2	0.4
5/29/2001	57		<2		NA	<1	4.3	0.2	<0.1
6/26/2001	NA		<2		<0.1	<1	4.3	0.2	0.2
8/28/2001	49		<2		<0.1	<1	4.5		
9/25/2001	53		<2		0.1	<1	6.0		
10/23/2001	53		<2		<0.1	<1	4.1	0.1	0.1
11/27/2001	NA		NA		NA	NA	6.6	<0.1	<0.1
12/26/2001	NA		NA		<0.05	NA	2.4	<0.1	0.3
1/29/2002	NA		2.8		<0.05	<0.03	5.6	0.1	0.1
2/26/2002	NA		NA		0.1	<0.03	2.9	0.2	0.2
3/26/2002	NA		1		0.1	0.1	3.5	0.3	0.7
4/23/2002	NA		NA		NA	NA	4.7	<0.1	<0.1
5/28/2002	NA		NA		NA	0.1	5.1	0.1	0.1
6/18/2002	NA		0.8		NA	NA	4.2	0.4	0.6
8/27/2002	NA		1.1		0.1	0.1	NA	<0.1	<0.1
9/24/2002	NA		NA		<0.05	0.1	4.1	0.1	0.2
10/29/2002	NA		0.8		<0.05	<0.03	1.8	0.1	0.2
11/19/2002	NA		4.5		<0.05	<0.03	1.8	0.3	0.3
12/17/2002	NA		1.3		0.1	<0.03	1.9	0.3	0.3

G1: 544SJC001 – New Jerusalem Tile Drain 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	19	NA	19	21	24	23	23
Min	49	NA	0.8	NA	0.03	0.02	1.8	0.1	0.1
Max	77	NA	4.5	NA	0.1	0.5	19	0.4	0.7
Mean	59	NA	1.3	NA	0.1	0.3	4.7	0.1	0.2
Geo Mean	59	NA	1.1	NA	0.1	0.1	4.1	0.1	0.1
Median	58	NA	1.0	NA	0.1	0.5	4.2	0.1	0.1
Quartile 1	53	NA	1.0	NA	0.04	0.1	3.8	0.1	0.1
Quartile 3	61	NA	1.0	NA	0.1	0.5	4.8	0.2	0.3

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

G1: 544SJC001 – New Jerusalem Tile Drain 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	610			18	<1	<5	<5	<2	
11/28/2000	640			20	<1	<5	<5	<2	
12/27/2000	660			26	<1	<5	<5	<2	
1/23/2001	630			22	<1	<5	<5	<2	
2/20/2001	670			30	<1	<5	<5	<2	
3/27/2001	740			23	<1	<5	<5	<2	
4/24/2001	640			20	1.4	<5	<5	<2	
5/29/2001	660			15	1.4	<5	<5	<2	
6/26/2001		<2	<1	16	<1	<5	<5	<2	<0.2
7/24/2001		NA	NA	20	<1	<5	<5	<2	NA
8/28/2001	360	<2	<1	16	<1	<5	<5	<2	
9/25/2001	590	<4	<0.1	17	2.4	<5	<5	<2	<0.2
10/23/2001	620	<4	<0.1	<1	22	<5	<5	<2	NA
11/27/2001	610	<4	<0.1	23	1.1	<5	<5	6.4	<0.2
12/26/2001	660	4.8	<0.1	23	<1	<5	<5	<2	<0.2
1/29/2002	730	<4	<0.1	25	<1	<5	<5	<2	<0.2
3/26/2002	450	<4.0	<0.1	14	3.9	<5.0	<5.0	3.8	<0.2
4/23/2002	720	<4.0	<0.1	24	<1.0	<5.0	<5.0	<2.0	<0.2
5/28/2002	610	<4.0	<0.1	16	<1.0	<5.0	<5.0	<2.0	<0.2
6/18/2002	720	<4.0	<0.1	14	<1.0	<5.0	<5.0	<2.0	<0.2
9/24/2002	660	<4.0	<0.1	13	1.3	<5.0	<5.0	<2.0	<0.2
10/29/2002	590	<4.0	<0.1	16	2.4	<5.0	<5.0	<2.0	<0.2
11/19/2002	580	<4.0	<0.1	16	<1.0	<5.0	<5.0	<2.0	<0.2
3/25/2003	590	4.6	<0.1	18	<1.0	<5.0	<5.0	<2.0	<0.2
4/22/2003	720	4.2	<0.1	26	1.5	<5.0	<5.0	<2.0	<0.2
5/27/2003	680	<4.0	<0.1	19	2.5	<5.0	<5.0	<2.0	<0.2
6/24/2003	600	<4.0	<0.1	15	2.1	<5.0	<5.0	<2.0	<0.2

G1: 544SJC001 – New Jerusalem Tile Drain 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	25	18	18	27	27	27	27	27	16
Min	360	1	0.05	0.5	0.5	2.5	2.5	1.0	0.1
Max	740	4.8	0.5	30	22	2.5	2.5	6.4	0.1
Mean	630	2.3	0.1	19	1.9	2.5	2.5	1.3	0.1
Geo Mean	620	2.1	0.1	17	0.9	2.5	2.5	1.1	0.1
Median	640	2.0	0.1	18	0.5	2.5	2.5	1.0	0.1
Quartile 1	600	2.0	0.1	16	0.5	2.5	2.5	1.0	0.1
Quartile 3	670	2.0	0.1	23	1.5	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

G1: 544SJC001 – New Jerusalem Tile Drain 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	610								
11/28/2000	640			21	<1	<5	<5	<2	
12/27/2000	660			27	<1	<5	<5	<2	
1/23/2001	630			22	<1	<5	<5		
2/20/2001	670			30	<1	<5	<5	<2	
3/27/2001	740			24	<1	<5	<5	<2	
4/24/2001	640			21	<1	<5	<5	<2	
5/29/2001	660			15	<1	<5	<5	<2	
6/26/2001		<2	<1	16	<1	<5	<5	<2	<0.2
7/24/2001		NA	NA	NA	NA	NA	NA	NA	NA
8/28/2001	360	<2	<1	17	<1	<5	<5	<2	
9/25/2001	590	<4	<0.1	18	2.6	<5	<5	11	<0.2
10/23/2001	620	<4	<0.1	<1	21	<5	<5	<2	NA
11/27/2001	610	<4	<0.1	25	<1	<5	<5	4	<0.2
12/26/2001	660	4.7	<0.1	23	1.1	<5	<5	2.3	<0.2
1/29/2002	730	<4	<0.1	18	<1	<5	<5	<2	<0.2
3/26/2002	450	<4.0	<0.1	12	2.7	<5.0	<5.0	2.6	<0.2
4/23/2002	720	5.8	<0.1	23	<1.0	<5.0	<5.0	<2.0	<0.2
5/28/2002	610	<4.0	<0.1	16	1.2	<5.0	<5.0	<2.0	<0.2
6/18/2002	720	<4.0	<0.1	4.5	<1.0	<5.0	<5.0	<2.0	<0.2
9/24/2002	660	<4.0	<0.1	14	1.6	<5.0	<5.0	<2.0	<0.2
10/29/2002	590	<4.0	<0.1	16	1.1	<5.0	<5.0	<2.0	<0.2
11/19/2002	580	<4.0	<0.1	15	<1.0	<5.0	<5.0	<2.0	<0.2

G1: 544SJC001 – New Jerusalem Tile Drain 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	21	14	14	21	21	21	21	20	12
Min	360	1	0.05	0.5	0.5	2.5	2.5	1.0	0.1
Max	740	5.8	0.5	30	21	2.5	2.5	11	0.1
Mean	630	2.3	0.1	18	1.8	2.5	2.5	1.8	0.1
Geo Mean	620	2.1	0.1	15	0.8	2.5	2.5	1.3	0.1
Median	640	2.0	0.1	18	0.5	2.5	2.5	1.0	0.1
Quartile 1	610	2.0	0.1	15	0.5	2.5	2.5	1.0	0.1
Quartile 3	660	2.0	0.1	23	1.1	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

G1: 544SJC001 – New Jerusalem Tile Drain 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	280	420	150	60	1600	<1	380	310	290
11/28/2000	310	420	150	62	1600	<1	370	300	320
12/27/2000	320	500	160	65	1700	<1	370	300	320
1/23/2001	280	420	150	61	1600	<1	370	300	310
2/20/2001	310	520	160	67	1700	<1	360	300	320
3/27/2001	360	520	180	71	NA	<1	380	310	330
4/24/2001	280	610	150	61	1600	<1	320	270	280
5/29/2001	290	500	160	63	1700	<1	300	300	310
8/28/2001	280	410	51	56	1600	<1	380	310	290
9/25/2001	280	410	140	60	NA	<1	350	280	280
10/23/2001	300	490	150	61	NA	<1	380	310	320
11/27/2001	290	450	150	60	1600	<1	370	300	310
12/26/2001	310	570	160	62	1800	<1	360	300	310
1/29/2002	350	590	180	71	1900	<1	370	300	330
3/26/2002	220	320	110	5	1100	<1.0	260	210	210
4/23/2002	300	540	180	69	1700	<1.0	340	280	320
5/28/2002	340	470	150	58	NA	<1.0	350	290	310
6/18/2002	330	470	170	69	NA	<1.0	360	NA	340
9/24/2002	340	400	150	67	NA	<1.0	370	310	310
10/29/2002	310	360	140	57	1500	<1.0	370	310	280
11/19/2002	320	430	140	57	1500	<1.0	360	300	280
3/25/2003	300	390	140	58					
4/22/2003	350	510	170	72					
5/27/2003	310	480	160	66					
6/24/2003	310	430	140	58					

G1: 544SJC001 – New Jerusalem Tile Drain 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	25	25	25	25	15	21	21	20	21
Min	220	320	51	5	1100	0.5	260	210	210
Max	360	610	180	72	1900	0.5	380	310	340
Mean	310	470	150	61	1600	0.5	360	290	300
Geo Mean	310	460	150	60	1600	0.5	350	290	300
Median	310	470	150	61	1600	0.5	370	300	310
Quartile 1	290	420	140	58	1600	0.5	350	300	290
Quartile 3	320	510	160	67	1700	0.5	370	310	320

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

G1: 544SJC001 – New Jerusalem Tile Drain 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 (%)
10/24/2000	100	100	NA	NA			
1/23/2001	100	100	NA	NA			
2/20/2001	70*	90	90	100			
3/27/2001	100	100	100	100			
4/24/2001	100	90	100	80			
5/29/2001	85	95	90	100			
6/27/2001	100	100	100	100			
10/23/2001	100	100	90	100			
12/26/2001	95	100	70*	100			
1/29/2002	100	100	100	100			
4/23/2002	95	95	90	100			
5/28/2002	100	100	100	100			
10/29/2002	100	95	100	100			
11/19/2002	100	100	100	100			
4/22/2003	100	100	100	100	5.07**	2.00	17
5/28/2003	100	100	NA	NA	5.45**	2.04	48
11/22/2004	100	100	100	100			
1/26/2005	100	97.5	80*	100			
2/23/2005	100	100	100	100			
3/31/2005	100	100	100	100			
4/26/2005	92.5	100	100	100			
5/24/2005	100	100	80*	100			
6/28/2005	100	100	100	100			
7/26/2005	97.5	100	100	100			
8/23/2005	100	100	90	100			
9/27/2005	100	100	100	100			
Count	26	26	23	23	2	2	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

G2: 544SJC505 – Tom Paine Slough at Paradise Road

Station Code: 544SJC505

Location: Latitude 37.77417, Longitude -121.38222

Date	Time	Temp (ºC)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
10/24/2000	10:40 AM	14.3	2920	7.8		
11/28/2000	12:15 PM	10.0	2100	7.2		
12/27/2000	10:15 AM	7.2	2980	8.1		
1/23/2001	10:10 AM	9.0	2920	6.9		
2/20/2001	10:29 AM	11.5	2200	7.6		
3/27/2001	10:27 AM	16.9	2580	7.4		
4/24/2001	11:30 AM	21.7	955	7.2		
5/29/2001	12:20 PM	21.9	812	7.5		
6/26/2001	10:57 AM	21.9	1010	7.5	4.2	
7/24/2001	9:32 AM	23.4	1090	7.4	3.4	
8/28/2001	10:38 AM	24.4	1060	7.7	6.8	
9/25/2001	11:21 AM	21.0	1150	7.8	10.9	
10/23/2001	10:48 AM	17.2	1590	7.6	8.9	
11/27/2001	9:59 AM	10.3	2780	7.5	6.4	
12/26/2001	10:50 AM	10.6	2860	7.3	NA	
1/29/2002	9:29 AM	7.8	3040	7.9	10.3	
2/26/2002	10:11 AM	15.0	3110	8.0	13.6	
3/26/2002	10:46 AM	15.6	1260	7.3	5.4	
4/23/2002	10:42 AM	18.8	1030	7.5	5.4	
5/28/2002	10:42 AM	20.9	845	7.8	8.3	
6/18/2002	10:50 AM	21.6	1070	7.6	5.5	
7/31/2002	INA	INA	INA	INA	INA	INA
8/27/2002	11:00 AM	22.4	1240	NA	NA	
9/24/2002	11:16 AM	23.9	1210	7.5	4.8	
10/15/2002	10:05 AM	18.0	1460	7.7	10.6	16.9
10/29/2002	10:37 AM	15.4	2220	7.4	10.4	13.4
11/19/2002	9:33 AM	12.8	2700	7.5	7.2	
12/17/2002	9:50 AM	11.1	1240	7.8	9.5	52.7
1/15/2003	9:18 AM	13.0	1610	7.5	7.0	17.1
1/28/2003	10:05 AM	13.3	2570	8.0	14.3	38.1
3/25/2003	8:53 AM	15.9	1660	7.6	8.3	15.1
4/22/2003	10:14 AM	15.6	1110	8.0	8.6	13.2
5/27/2003	9:54 AM	20.5	1090	7.2	5.5	15.2
6/24/2003	10:56 AM	19.9	1240	7.7	8.1	3.9
7/29/2003	9:09 AM	25.7	918	7.3	2.2	4.0
8/26/2003	10:42 AM	25.5	1120	7.5	5.4	12.4
9/23/2003	10:17 AM	22.6	1430	7.1	4.3	10.5
10/28/2003	10:18 AM	17.6	1530	7.2	6.1	8.7
11/18/2003	9:45 AM	13.5	2660	7.4	8.0	55
1/28/2004	9:45 AM	INA	INA	INA	INA	INA
2/24/2004	10:16 AM	13.0	2820	7.5	5.6	110

G2: 544SJC505 – Tom Paine Slough at Paradise Road continued…

Date	Time	Temp (ºC)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
3/24/2004	9:07 AM	16.2	3060	7.4	3.6	5.9
4/28/2004	9:04 AM	21.7	1030	7.1	10.5	48.5
5/26/2004	10:30 AM	INA	INA	INA	INA	INA
6/23/2004	9:06 AM	21.2	1190	7.0	3.5	NA
7/28/2004	9:58 AM	INA	INA	INA	INA	INA
8/25/2004	9:19 AM	22.0	1120	6.9	2.7	NA
9/29/2004	10:03 AM	19.7	1500	7.3	5.8	NA
10/27/2004	10:05 AM	14.7	2220	7.3	4.7	
11/22/2004	10:47 AM	10.9	2990	7.4	9.6	
12/28/2004	9:42 AM	8.4	2890	7.2	8.3	
1/26/2005	9:54 AM	10.1	3180	7.6	6.8	
2/23/2005	9:25 AM	14.9	2900	8.2	16.2	
3/29/2005	10:36 AM	15.5	2950	7.9	13.9	
4/26/2005	10:20 AM	16.8	762	7.4	7.9	
5/24/2005	9:42 AM	20.9	767	7.7	9.2	
6/28/2005	9:38 AM	19.1	784	7.1	6.5	
7/26/2005	9:39 AM	25.2	894	7.4	5.0	
8/23/2005	9:45 AM	23.5	781	7.5	7.6	
9/27/2005	10:25 AM	19.3	1030	7.8	14.3	
Count		56	56	55	46	17
Min		7.2	762	6.9	2.2	3.9
Max		25.7	3180	8.2	16.2	110
Mean		17.2	1770	7.5	7.6	25.9
Geo Mean		16.3	1580	7.5	7.0	16.9
Median		17.1	1450	7.5	7.1	15.1
Quartile 1		13.2	1070	7.3	5.4	10.5
Quartile 3		21.6	2720	7.7	9.4	38.1

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

G2: 544SJC505 – Tom Paine Slough at Paradise Road continued…

Date	TSS (mg/L)	TOC (mg/L)	Total Coli MPN	*E. coli* MPN
10/24/2000	59	4.2		
11/28/2000	22	<1		
12/27/2000	31	2.4		
1/23/2001	32	5.3		
2/20/2001	28	<1		
3/27/2001	27	NA		
4/24/2001	26	4.5		
5/29/2001	18	4.5		
6/26/2001	18	8.9		
7/24/2001		6.3		
8/28/2001	27	8.8		
9/25/2001	NA	14		
10/23/2001		31		
2/26/2002		NA		
3/26/2002		1.9		
4/23/2002		NA		
5/28/2002		<1.0		
6/18/2002		4.2		
7/31/2002			INA	INA
8/27/2002		4.1		
9/24/2002		4.8		
10/15/2002			>2419.6	38
10/29/2002		6.0		
11/19/2002		3.9		
1/15/2003			1553	27
3/25/2003		4.2		
4/22/2003		5.0	1986	33
5/27/2003		NA		
6/24/2003		NA		
7/29/2003			>2419.6	60
8/26/2003			>2419.6	33
9/23/2003			>2419.6	12
10/28/2003			>2419.6	236
11/18/2003			>2419.6	219
1/28/2004			INA	INA
2/24/2004			629	67
3/24/2004			>2419.6	816
4/28/2004			>2419.6	88
5/26/2004			INA	INA
6/23/2004			>2419.6	727
7/28/2004			INA	INA
8/25/2004			>2419.6	93
9/29/2004			>2419.6	7
10/27/2004		6.0	>2419.6	20
11/22/2004		5.3	1203	54

G2: 544SJC505 – Tom Paine Slough at Paradise Road continued…

Date	TSS (mg/L)	TOC (mg/L)	Total Coli MPN	*E. coli* MPN
12/28/2004		5.0	>2419.6	260
1/26/2005		6.4	>2419.6	38
2/23/2005		8.6	313	24
3/29/2005		15	>2419.6	14
4/26/2005		NA	>2419.6	107
5/24/2005		NA	>2419.6	38
6/28/2005		4.8	>2419.6	184
7/26/2005		NA	>2419.6	89
8/23/2005		4.2	>2419.6	40
9/27/2005		5.5	>2419.6	24
Count	10	30	26	26
Min	18	0.5	313	7
Max	59	31	2420	816
Mean	29	6.2	NA	NA
Geo Mean	27	4.5	2017	61
Median	27	4.9	2420	47
Quartile 1	23	4.2	2420	29
Quartile 3	30	6.2	2420	104

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

G2: 544SJC505 – Tom Paine Slough at Paradise 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		2.1		0.3	<1	8.6	8.4	15.0
11/28/2000	4.0		<2		0.2	<1	7.3	2.6	4.8
12/27/2000	2.8		<2		0.1	<1	7.5	4.8	8.1
1/23/2001	2.4		<2		0.1	<1	7.4	6.8	12.0
2/20/2001	1.0		<2		0.2	0.2	7.8	6.6	11.5
3/27/2001	<2		2.0		0.2	<1	9.3	7.9	12.3
4/24/2001	4.9		<2		0.1	<1	5.4	5.1	8.0
5/29/2001	5.8		<2		0.3	<1	5.4	1.6	2.5
6/26/2001	7.6		<2		0.4	<1	8.4	4.3	5.9
8/28/2001	8.0		<2		0.3	<1	5.9		
9/25/2001	5.7		<2		0.3	<1	6.9		
10/23/2001	<2		<2		0.2	<1	7.9		
11/27/2001	NA		NA		NA	0.1	11	4.4	6.9
12/26/2001	NA		NA		0.2	NA	4.0	3.1	7.2
1/29/2002	NA		1.1		0.1	0.1	14	5.1	8.0
2/26/2002	NA		NA		0.3	<0.03	7.3	8.6	16.0
3/26/2002	NA		0.9		0.2	0.1	4.3	2.5	4.2
4/23/2002	NA		NA		NA	NA	6.3	3.2	4.9
5/28/2002	NA		NA		NA	0.2	4.0	1.6	2.5
6/18/2002	NA		0.6		NA	0.3	6.7	1.3	2.2
8/27/2002	NA		0.6		0.2	0.2	NA	0.8	1.5
9/24/2002	NA		NA		0.2	0.2	5.8	1.8	3.9
10/29/2002	NA		1.3		0.2	<0.03	4.5	8.6	13.6
11/19/2002	NA		1.4		0.2	0.1	4.4	4.7	8.2
12/17/2002	NA		1.5		0.2	0.1	2.0	2.4	4.8
1/28/2003	NA		1.3		0.2	<0.03	3.2	6.7	12.4

G2: 544SJC505 – Tom Paine Slough at Paradise 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	20	NA	22	24	25	23	23
Min	1	NA	0.6	NA	0.1	0.02	2.0	0.8	1.5
Max	8.0	NA	2.1	NA	0.4	0.5	14	8.6	16.0
Mean	3.8	NA	1.1	NA	0.2	0.3	6.6	4.5	7.7
Geo Mean	2.8	NA	1.1	NA	0.2	0.2	6.1	3.7	6.4
Median	3.4	NA	1.0	NA	0.2	0.3	6.7	4.4	7.2
Quartile 1	1.0	NA	1.0	NA	0.2	0.1	4.5	2.5	4.5
Quartile 3	5.7	NA	1.3	NA	0.3	0.5	7.8	6.7	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

G2: 544SJC505 – Tom Paine Slough at Paradise 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	700			1.2	1.9	<5	<5	<2	
11/28/2000	770			<1	1.1	<5	<5	<2	
12/27/2000	750			<1	1.0	<5	<5	<2	
1/23/2001	730			<1	1.9	<5	<5	<2	
2/20/2001	530			<1	1.6	<5	<5	<2	
3/27/2001	610			<1	2.2	<5	<5	<2	
4/24/2001	220			<1	2.5	<5	<5	2.7	
5/29/2001	190			<1	3.2	<5	<5	3.4	
6/26/2001		5.7	<1	9.7	11	<5	13	23	<0.2
7/24/2001		NA	NA	<1	2.2	<5	<5	4.3	NA
8/28/2001	230	3.5	<1	1.3	2.1	<5	<5	3.3	
9/25/2001	270	<4	<0.1	<1	2.2	<5	<5	<2	<0.2
10/23/2001	360	5.9	<0.1	<1	2.1	<5	<5	3.2	NA
11/27/2001	740	<4	<0.1	<1	1.3	<5	<5	2.1	<0.2
12/26/2001	710	5.1	<0.1	2.0	3.1	<5	<5	7.2	<0.2
1/29/2002	750	<4	<0.1	<1	<1	<5	<5	<2	<0.2
3/26/2002	300	<4.0	<0.1	1.2	3.1	<5.0	8.2	5.8	<0.2
4/23/2002	250	<4.0	<0.1	<1.0	2.3	<5.0	<5.0	<2.0	<0.2
5/28/2002	200	<4.0	<0.1	1.1	4.0	<5.0	<5.0	2.6	<0.2
6/18/2002	270	4.4	<0.1	<1.0	1.6	<5.0	<5.0	<2.0	<0.2
9/24/2002	280	5.2	<0.1	<1.0	2.7	<5.0	<5.0	3.3	<0.2
10/29/2002	520	5.9	<0.1	<1.0	2.3	<5.0	<5.0	<2.0	<0.2
11/19/2002	690	4.9	<0.1	<1.0	<1.0	<5.0	<5.0	<2.0	<0.2
3/25/2003	390	4.9	<0.1	<1.0	1.7	<5.0	<5.0	<2.0	<0.2
4/22/2003	250	<4.0	<0.1	<1.0	2.7	<5.0	<5.0	<2.0	<0.2
5/27/2003	250	4.8	<0.1	<1.0	3.0	<5.0	<5.0	<2.0	<0.2
6/24/2003	300	4.2	<0.1	<1.0	1.6	<5.0	<5.0	<2.0	<0.2

G2: 544SJC505 – Tom Paine Slough at Paradise 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	25	18	18	27	27	27	27	27	16
Min	190	2.0	0.1	0.5	0.5	2.5	2.5	1.0	0.1
Max	770	5.9	0.5	9.7	11	2.5	13	23	0.1
Mean	450	3.8	0.1	1.0	2.4	2.5	3.1	2.8	0.1
Geo Mean	400	3.5	0.1	0.7	2.0	2.5	2.8	1.8	0.1
Median	360	4.3	0.1	0.5	2.2	2.5	2.5	1.0	0.1
Quartile 1	250	2.0	0.1	0.5	1.6	2.5	2.5	1.0	0.1
Quartile 3	700	5.1	0.1	0.5	2.7	2.5	2.5	3.3	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

G2: 544SJC505 – Tom Paine Slough at Paradise 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	700								
11/28/2000	770			<1	<1	<5	<5	<2	
12/27/2000	750			<1	<1	<5	<5	<2	
1/23/2001	730			<1	<1	<5	<5	<2	
2/20/2001	530			<1	<1	<5	<5	<2	
3/27/2001	610			<1	<1	<5	<5	<2	
4/24/2001	220			<1	1.1	<5	<5	<2	
5/29/2001	190			<1	1.4	<5	<5	2.3	
6/26/2001		3.2	<1	<1	<1	<5	<5	2.8	<0.2
7/24/2001		NA	NA	NA	NA	NA	NA	NA	NA
8/28/2001	230	3.3	<1	<1	<1	<5	<5	<2	
9/25/2001	270	<4	<0.1	<1	1.8	<5	<5	<2	<0.2
10/23/2001	360	5.2	<0.1	<1	2.1	<5	<5	2.9	NA
11/27/2001	740	<4	<0.1	<1	<1	<5	<5	5.4	<0.2
12/26/2001	710	4.0	<0.1	<1	1.1	<5	<5	<2	<0.2
1/29/2002	750	<4	<0.1	<1	<1	<5	<5	<2	<0.2
3/26/2002	300	<4.0	<0.1	<1.0	1.7	<5.0	5.1	4.8	<0.2
4/23/2002	250	5.6	<0.1	<1.0	2.1	<5.0	<5.0	<2.0	<0.2
5/28/2002	200	<4.0	<0.1	<1.0	3.1	<5.0	<5.0	2.2	<0.2
6/18/2002	270	<4.0	<0.1	<1.0	<1.0	<5.0	<5.0	<2.0	<0.2
9/24/2002	280	4.9	<0.1	<1.0	2.5	<5.0	<5.0	<2.0	<0.2
10/29/2002	520	<4.0	<0.1	<1.0	<1.0	<5.0	<5.0	<2.0	<0.2
11/19/2002	690	<4.0	<0.1	<1.0	<1.0	<5.0	<5.0	<2.0	<0.2

G2: 544SJC505 – Tom Paine Slough at Paradise 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)
Count	21	14	14	21	21	21	21	21	12
Min	190	2.0	0.1	0.5	0.5	2.5	2.5	1.0	0.1
Max	770	5.6	0.5	0.5	3.1	2.5	5.1	5.4	0.1
Mean	480	3.0	0.1	0.5	1.1	2.5	2.6	1.7	0.1
Geo Mean	420	2.8	0.1	0.5	0.9	2.5	2.6	1.4	0.1
Median	520	2.0	0.1	0.5	0.5	2.5	2.5	1.0	0.1
Quartile 1	270	2.0	0.1	0.5	0.5	2.5	2.5	1.0	0.1
Quartile 3	710	3.8	0.1	0.5	1.7	2.5	2.5	2.2	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

G2: 544SJC505 – Tom Paine Slough at Paradise 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	440	460	140	88	1800	<1	390	320	370
11/28/2000	470	460	160	89	2000	<1	410	340	380
12/27/2000	480	490	150	88	1900	<1	390	320	360
1/23/2001	450	460	150	87	1900	<1	370	300	370
2/20/2001	340	350	110	64	1300	<1	330	270	270
3/27/2001	430	410	120	76	NA	<1	360	290	320
4/24/2001	130	120	47	25	550	<1	168	138	100
5/29/2001	100	95	42	21	450	<1	110	110	85
8/28/2001	140	130	49	26	630	<1	190	150	120
9/25/2001	160	140	58	31	NA	<1	210	170	140
10/23/2001	240	220	74	43	NA	<1	270	220	210
11/27/2001	500	480	150	86	1800	<1	390	320	360
12/26/2001	460	450	150	83	1800	<1	290	240	340
1/29/2002	470	490	160	87	2000	<1	390	320	370
3/26/2002	180	180	66	34	710	<1.0	200	160	150
4/23/2002	150	140	55	28	580	<1.0	170	140	120
5/28/2002	120	120	45	23	NA	<1.0	150	120	96
6/18/2002	140	130	58	29	NA	<1.0	190	NA	130
9/24/2002	170	150	58	33	NA	<1.0	210	170	160
10/29/2002	340	330	110	62	1400	<1.0	380	320	300
11/19/2002	490	450	150	78	1800	<1.0	400	330	350
3/25/2003	250	250	84	44					
4/22/2003	150	150	50	30					
5/27/2003	150	140	53	29					
6/24/2003	190	170	63	34					

G2: 544SJC505 – Tom Paine Slough at Paradise 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	25	25	25	25	15	21	21	20	21
Min	100	95	42	21	450	0.5	110	110	85
Max	500	490	160	89	2000	0.5	410	340	380
Mean	280	280	94	53	1400	0.5	280	240	240
Geo Mean	250	240	84	46	1200	0.5	260	220	210
Median	240	220	74	43	1800	0.5	290	260	270
Quartile 1	150	140	55	29	670	0.5	190	160	130
Quartile 3	450	450	150	83	1900	0.5	390	320	360

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

G2: 544SJC505 – Tom Paine Slough at Paradise 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(%)
1/28/2003	95	100	90	100	1.7*	3.10	NA
Count	1	1	1	1	1	1	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

G3: 544SJC506 – Old River at Tracy Blvd

Station Code: 544SJC506

Location: Latitude 37.80472, Longitude -121.44944

Date	Time	Temp (ºC)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
10/24/2000	11:00 AM	15.8	984	8.2		
11/28/2000	12:40 PM	10.0	802	8.2		
12/27/2000	10:40 AM	8.4	824	6.9		
1/23/2001	10:30 AM	9.3	949	7.7		
2/20/2001	10:49 AM	11.6	718	8.2		
3/27/2001	10:47 AM	18.6	1190	8.0		
4/24/2001	12:15 PM	20.1	498	6.5		
5/29/2001	11:50 AM	22.2	768	7.5		
6/26/2001	11:30 AM	23.0	941	7.6	5.2	
7/24/2001	9:50 AM	23.9	816	7.7	6.7	
8/28/2001	11:10 AM	25.4	875	8.0	8.5	
9/25/2001	10:58 AM	22.6	754	7.8	9.4	
10/23/2001	10:22 AM	18.1	852	7.8	8.1	
11/27/2001	10:23 AM	11.8	808	7.3	8.5	
12/26/2001	11:10 AM	10.3	1200	8.0	NA	
1/29/2002	9:47 AM	8.4	1140	8.0	11.3	
2/26/2002	9:22 AM	14.8	1070	7.8	10.0	
3/26/2002	11:02 AM	15.6	1040	7.8	10.8	
4/23/2002	11:20 AM	19.0	1080	7.9	7.6	
5/28/2002	9:45 AM	20.5	617	8.1	12.0	
6/18/2002	10:26 AM	23.1	827	7.6	5.3	
7/31/2002	10:29 AM	24.4	889	8.3	6.3	55.9
8/27/2002	10:35 AM	23.8	932	NA	NA	
9/24/2002	10:55 AM	23.9	899	7.5	3.3	
10/15/2002	9:45 AM	19.2	1070	8.0	8.9	22.0
10/29/2002	11:02 AM	16.3	693	7.9	7.2	24.7
11/19/2002	9:51 AM	13.1	883	7.7	7.7	
12/17/2002	9:29 AM	11.4	952	7.8	9.3	37.2
1/15/2003	9:36 AM	12.6	1110	7.7	8.9	26.6
1/28/2003	9:54 AM	13.0	1140	7.6	10.1	33.3
3/25/2003	9:30 AM	16.0	1230	7.8	12.6	30.2
4/22/2003	9:06 AM	14.9	793	7.7	9.9	33.9
5/27/2003	10:14 AM	22.3	617	8.5	10.9	32.0
6/24/2003	10:22 AM	21.0	694	8.1	9.3	50.9
7/29/2003	8:00 AM	26.6	727	7.7	6.6	42.8
8/26/2003	9:57 AM	26.3	771	8.0	5.7	46.5
9/23/2003	9:55 AM	23.4	785	7.9	9.0	26.8
10/28/2003	10:38 AM	18.9	572	7.8	8.3	20.6
11/18/2003	10:05 AM	15.6	864	7.8	8.8	19.3
1/28/2004	9:28 AM	10.1	1090	7.7	14.4	53.0

G3: 544SJC506 – Old River at Tracy Blvd continued…

Date	Time	Temp (ºC)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
2/24/2004	10:00 AM	13.2	837	7.6	8.7	41.7
3/24/2004	8:47 AM	16.9	769	8.0	10.2	32.1
4/28/2004	8:44 AM	20.8	773	7.5	11.0	32.4
5/26/2004	10:05 AM	19.7	767	8.2	11.4	30.7
6/23/2004	8:46 AM	21.2	745	7.7	7.2	NA
7/28/2004	9:40 AM	25.8	833	8.1	7.3	NA
8/25/2004	9:37 AM	23.0	830	7.6	6.2	NA
9/29/2004	9:40 AM	20.4	943	7.4	8.3	NA
10/27/2004	9:38 AM	15.4	979	7.5	7.6	
11/22/2004	10:29 AM	11.6	1140	7.6	9.4	
12/28/2004	9:25 AM	8.9	1020	7.6	12.6	
1/26/2005	9:37 AM	9.7	776	7.6	9.1	
2/23/2005	9:07 AM	13.5	650	7.5	8.2	
3/29/2005	10:19 AM	13.9	324	7.4	9.2	
4/26/2005	10:03 AM	15.2	438	7.4	10.6	
5/24/2005	9:21 AM	17.6	150	7.5	8.8	
6/28/2005	9:21 AM	19.6	449	7.1	8.3	
7/26/2005	9:23 AM	25.4	465	7.4	7.2	
8/23/2005	9:24 AM	23.3	628	7.4	6.8	
9/27/2005	10:04 AM	20.1	570	7.5	10.6	
Count		60	60	59	50	20
Min		8.4	150	6.5	3.3	19.3
Max		26.6	1230	8.5	14.4	55.9
Mean		17.7	826	7.7	8.8	34.6
Geo Mean		16.8	787	7.7	8.5	33.1
Median		18.4	826	7.7	8.8	32.3
Quartile 1		13.2	725	7.5	7.4	26.8
Quartile 3		22.4	959	8.0	10.1	42.0

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

G3: 544SJC506 – Old River at Tracy Blvd continued…

Date	TSS (mg/L)	TOC (mg/L)	Total Coli MPN	*E. coli* MPN
10/24/2000	36	1.8		
11/28/2000	21	1.4		
12/27/2000	14	1.6		
1/23/2001	23	3.1		
2/20/2001	22	1.5		
3/27/2001	38	NA		
4/24/2001	27	3.2		
5/29/2001	44	4.7		
6/26/2001	32	4.5		
7/24/2001		5.7		
8/28/2001	20	8.5		
9/25/2001	NA	9.8		
10/23/2001		17		
2/26/2002		NA		
3/26/2002		3.0		
4/23/2002		NA		
5/28/2002		8.9		
6/18/2002		3.8		
7/31/2002			>2419.6	59
8/27/2002		5.0		
9/24/2002		4.3		
10/15/2002			>2419.6	40
10/29/2002		2.8		
11/19/2002		4.1		
12/17/2002		3.6		
1/15/2003			>2419.6	120
3/25/2003		4.0		
4/22/2003		4.3	980	108
5/27/2003		NA		
6/24/2003		NA		
7/29/2003			>2419.6	197
8/26/2003			>2419.6	57
9/23/2003			>2419.6	50
10/28/2003			>2419.6	70
11/18/2003			>2419.6	50
1/28/2004			>2419.6	50
2/24/2004			1414	75
3/24/2004			1203	46
4/28/2004			>2419.6	59
5/26/2004			>2419.6	58
6/23/2004			>2419.6	46
7/28/2004			>2419.6	29
8/25/2004			>2419.6	25
9/29/2004			>2419.6	28

G3: 544SJC506 – Old River at Tracy Blvd continued…

Date	TSS (mg/L)	TOC (mg/L)	Total Coli MPN	*E. coli* MPN
10/27/2004		4.6	>2419.6	119
11/22/2004		5.6	>2419.6	48
12/28/2004		4.0	>2419.6	214
1/26/2005		8.3	>2419.6	93
2/23/2005		9.9	770	345
3/29/2005		6.5	2420	167
4/26/2005		NA	>2419.6	69
5/24/2005		NA	>2419.6	261
6/28/2005		3.9	>2419.6	59
7/26/2005		NA	>2419.6	88
8/23/2005		3.5	>2419.6	79
9/27/2005		3.3	>2419.6	63
Count	10	31	30	30
Min	14	1.4	770	25
Max	44	17	2420	345
Mean	28	5.0	NA	NA
Geo Mean	26	4.3	2169	74
Median	25	4.1	2420	61
Quartile 1	21	3.3	2420	50
Quartile 3	35	5.7	2420	104

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

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

G3: 544SJC506 – Old River at Tracy Blvd 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	20	NA	22	24	25	24	24
Min	4.8	NA	0.6	NA	0.2	0.1	3.0	1.2	2.5
Max	10.0	NA	2.1	NA	0.7	0.5	8.1	6.1	10.4
Mean	7.6	NA	1.1	NA	0.3	0.3	5.3	3.0	5.1
Geo Mean	7.4	NA	1.1	NA	0.2	0.3	5.1	2.6	4.6
Median	7.9	NA	1.0	NA	0.2	0.2	5.3	2.6	4.2
Quartile 1	6.8	NA	1.0	NA	0.2	0.2	4.4	1.9	3.3
Quartile 3	8.4	NA	1.1	NA	0.3	0.5	5.9	3.7	6.4

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

G3: 544SJC506 – Old River at Tracy Blvd 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	220			1.8	2.8	<5	<5	3.7	
11/28/2000	180			1.8	2.4	<5	<5	3.6	
12/27/2000	180			<1	1.8	<5	<5	2.6	
1/23/2001	200			1.4	2.6	<5	<5	2.9	
2/20/2001	160			1.5	2.6	<5	<5	3.4	
3/27/2001	260			2.5	3.9	<5	5.2	6.4	
4/24/2001	110			1.8	2.7	<5	<5	3.7	
5/29/2001	180			1.7	3.4	<5	<5	4.7	
6/26/2001		3.8	<1	1.9	3.1	<5	<5	4.2	<0.2
7/24/2001		NA	NA	1.4	2.1	<5	<5	4.8	NA
8/28/2001	190	3.0	<1	<1	1.9	<5	<5	2.4	
9/25/2001	180	<4	<0.1	<1	2.0	<5	<5	<2	<0.2
10/23/2001	200	<4	<0.1	<1	2.5	<5	<5	3.8	NA
11/27/2001	190	<4	<0.1	<1	1.8	<5	<5	10	<0.2
12/26/2001	280	<4	<0.1	2.7	4.2	<5	<5	9.8	<0.2
1/29/2002	260	<4	<0.1	<1	<1	<5	<5	4.0	<0.2
3/26/2002	230	<4.0	<0.1	1.5	2.9	<5.0	13	5.4	<0.2
4/23/2002	260	4.0	<0.1	<1.0	1.2	<5.0	<5.0	<2.0	<0.2
5/28/2002	150	<4.0	<0.1	1.6	4.5	<5.0	<5.0	3.7	<0.2
6/18/2002	220	<4.0	<0.1	<1.0	2.6	<5.0	<5.0	4.3	<0.2
9/24/2002	210	<4.0	<0.1	<1.0	5.4	<5.0	<5.0	4.1	<0.2
10/29/2002	170	<4.0	<0.1	1.8	3.5	<5.0	<5.0	2.8	<0.2
11/19/2002	200	<4.0	<0.1	<1.0	1.9	<5.0	<5.0	2.4	<0.2
3/25/2003	280	4.0	<0.1	1.8	2.7	<5.0	<5.0	3.0	<0.2
4/22/2003	190	<4.0	<0.1	<1.0	2.4	<5.0	<5.0	<2.0	<0.2
5/27/2003	140	<4.0	<0.1	1.3	3.3	<5.0	<5.0	2.9	<0.2
6/24/2003	160	<4.0	<0.1	2.1	3.3	<5.0	<5.0	4.1	<0.2

G3: 544SJC506 – Old River at Tracy Blvd 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	25	18	18	27	27	27	27	27	16
Min	110	2.0	0.1	0.5	0.5	2.5	2.5	1.0	0.1
Max	280	4.0	0.5	2.7	5.4	2.5	13	10	0.1
Mean	200	2.4	0.1	1.3	2.7	2.5	3.0	3.9	0.1
Geo Mean	190	2.3	0.1	1.1	2.5	2.5	2.7	3.4	0.1
Median	190	2.0	0.1	1.4	2.6	2.5	2.5	3.7	0.1
Quartile 1	180	2.0	0.1	0.5	2.1	2.5	2.5	2.9	0.1
Quartile 3	220	2.0	0.1	1.8	3.3	2.5	2.5	4.3	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

G3: 544SJC506 – Old River at Tracy Blvd 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	220								
11/28/2000	180			<1	<1	<5	<5	<2	
12/27/2000	180			<1	<1	<5	<5	<2	
1/23/2001	200			<1	<1	<5	<5	<2	
2/20/2001	160			<1	1.3	<5	<5	<2	
3/27/2001	260			<1	1.7	<5	<5	<2	
4/24/2001	110			<1	1.0	<5	<5	<2	
5/29/2001	180			<1	1.3	<5	<5	<2	
6/26/2001		3.7	<1	<1	<1	<5	<5	<2	<0.2
7/24/2001		NA	NA	NA	NA	NA	NA	NA	NA
8/28/2001	190	2.9	<1	<1	<1	<5	<5	<2	
9/25/2001	180	<4	<0.1	<1	2.2	<5	<5	11	<0.2
10/23/2001	200	<4	<0.1	<1	1.4	<5	<5	<2	NA
11/27/2001	190	<4	<0.1	<1	1.3	<5	<5	8.1	<0.2
12/26/2001	280	<4	<0.1	<1	2.3	<5	<5	6.0	<0.2
1/29/2002	260	<4	<0.1	<1	<1	<5	<5	<2	<0.2
3/26/2002	230	<4.0	<0.1	<1.0	2.0	<5.0	<5.0	3.8	<0.2
4/23/2002	260	5.3	<0.1	<1.0	1.5	<5.0	<5.0	<2.0	<0.2
5/28/2002	150	<4.0	<0.1	<1.0	3.0	<5.0	<5.0	<2.0	<0.2
6/18/2002	220	<4.0	<0.1	<1.0	<1.0	<5.0	<5.0	<2.0	<0.2
9/24/2002	210	4.2	<0.1	<1.0	2.6	<5.0	<5.0	<2.0	<0.2
10/29/2002	170	<4.0	<0.1	<1.0	1.7	<5.0	<5.0	<2.0	<0.2
11/19/2002	200	<4.0	<0.1	<1.0	<1.0	<5.0	<5.0	<2.0	<0.2

G3: 544SJC506 – Old River at Tracy Blvd 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	21	14	14	21	21	21	21	21	12
Min	110	2.0	0.1	0.5	0.5	2.5	2.5	1.0	0.1
Max	280	5.3	0.5	0.5	3.0	2.5	2.5	11.0	0.1
Mean	200	2.6	0.1	0.5	1.3	2.5	2.5	2.2	0.1
Geo Mean	200	2.4	0.1	0.5	1.1	2.5	2.5	1.4	0.1
Median	200	2.0	0.1	0.5	1.3	2.5	2.5	1.0	0.1
Quartile 1	180	2.0	0.1	0.5	0.5	2.5	2.5	1.0	0.1
Quartile 3	220	2.7	0.1	0.5	1.7	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

G3: 544SJC506 – Old River at Tracy Blvd 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	130	110	45	27	580	<1	190	150	110
11/28/2000	100	86	39	21	460	<1	140	120	92
12/27/2000	100	95	39	21	490	<1	140	120	93
1/23/2001	120	120	43	23	450	<1	160	130	110
2/20/2001	8	100	35	18	420	<1	120	100	81
3/27/2001	160	180	55	30	NA	<1	180	150	140
4/24/2001	61	65	25	13	280	<1	84	69	48
5/29/2001	100	92	38	20	400	16	84	100	79
8/28/2001	110	100	41	21	510	<1	150	130	97
9/25/2001	100	84	39	20	NA	<1	140	120	84
10/23/2001	120	97	42	22	NA	<1	150	130	10
11/27/2001	120	94	40	22	490	<1	130	150	100
12/26/2001	180	160	57	32	720	<1	190	160	140
1/29/2002	160	150	56	30	680	<1	190	150	140
3/26/2002	150	150	48	26	590	<1.0	160	130	120
4/23/2002	160	150	54	29	610	<1.0	160	130	130
5/28/2002	80	76	33	16	NA	<1.0	110	87	65
6/18/2002	120	110	48	24	NA	<1.0	160	NA	110
9/24/2002	130	100	46	24	NA	<1.0	170	140	110
10/29/2002	96	87	36	19	470	<1.0	130	110	84
11/19/2002	130	100	42	22	530	<1.0	160	130	110
3/25/2003	160	180	59	32					
4/22/2003	110	120	39	22					
5/27/2003	80	76	32	16					
6/24/2003	94	82	36	18					

G3: 544SJC506 – Old River at Tracy Blvd 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	25	25	25	25	15	21	21	20	21
Min	8	65	25	13	280	0.5	84	69	10
Max	180	180	59	32	720	16	190	160	140
Mean	120	110	43	23	510	1.2	148	130	98
Geo Mean	100	100	42	22	500	0.6	144	120	89
Median	120	100	41	22	490	0.5	150	130	100
Quartile 1	100	87	38	20	460	0.5	130	120	84
Quartile 3	130	120	48	26	590	0.5	160	140	110

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

G4: 544SJC509 – Mt House Creek @ Mt. House Parkway

Station Code: 544SJC509

Location: Latitude 37.78556, Longitude -121.53472

Date	Time	Temp (ºC)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
12/27/2000	11:15 AM	6.9	2840	7.8		
1/23/2001	11:00 AM	8.5	2930	7.6		
2/10/2001	2:10 PM	8.5	2860	7.2		
2/11/2001	4:43 AM	6.8	2900	8.1		
2/20/2001	11:12 AM	9.8	2780	7.9		
3/27/2001	11:10 AM	14.9	531	7.9		
4/24/2001	1:00 PM	22.7	1040	7.3		
5/29/2001	11:00 AM	21.0	467	7.6		
6/26/2001	12:28 PM	23.3	485	7.5	2.9	
7/24/2001	DRY	DRY	DRY	DRY	DRY	
8/28/2001	11:38 AM	23.9	647	7.8	8.8	
9/25/2001	10:39 AM	17.5	737	7.8	11.9	
10/23/2001	10:19 AM	DRY	DRY	DRY	DRY	
11/27/2001	DRY	DRY	DRY	DRY	DRY	
12/26/2001	DRY	DRY	DRY	DRY	DRY	
1/29/2002	10:11 AM	DRY	DRY	DRY	DRY	
2/26/2002	10:00 AM	DRY	DRY	DRY	DRY	
3/26/2002	DRY	DRY	DRY	DRY	DRY	
4/23/2002	11:58 AM	17.4	353	7.7	9.7	
5/28/2002	10:10 AM	DRY	DRY	DRY	DRY	
6/18/2002	9:55 AM	17.9	344	7.3	8.1	
7/31/2002	10:04 AM	19.1	551	8.8	7.0	260
8/27/2002	10:20 AM	DRY	DRY	DRY	DRY	
9/24/2002	10:30 AM	18.5	715	7.6	9.2	
10/15/2002	DRY	DRY	DRY	DRY	DRY	DRY
10/29/2002	11:27 AM	13.4	676	7.8	10.2	121
11/19/2002	DRY	DRY	DRY	DRY	DRY	
12/17/2002	9:00 AM	10.1	1660	7.8	10.6	274
1/15/2003	DRY	DRY	DRY	DRY	DRY	DRY
1/28/2003	9:30 AM	DRY	DRY	DRY	DRY	DRY
3/25/2003	9:06 AM	11.5	656	7.5	10.8	75.6
4/22/2003	9:20 AM	DRY	DRY	DRY	DRY	DRY
5/27/2003	10:40 AM	20.0	531	7.8	8.1	41.0
6/24/2003	10:07 AM	DRY	DRY	DRY	DRY	DRY
7/29/2003	8:35 AM	20.8	246	7.6	9.0	141
8/26/2003	10:05 AM	DRY	DRY	DRY	DRY	DRY
9/23/2003	10:22 AM	DRY	DRY	DRY	DRY	DRY
10/28/2003	10:55 AM	DRY	DRY	DRY	DRY	DRY
11/18/2003	10:40 AM	DRY	DRY	DRY	DRY	DRY

G4: 544SJC509 – Mt House Creek @ Mt. House Parkway continued…

Date	Time	Temp (ºC)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
Count		20	20	20	12	6
Min		6.8	246	7.2	2.9	41.0
Max		23.9	2930	8.8	11.9	274
Mean		15.6	1280	7.7	8.9	152
Geo Mean		14.5	863	7.7	8.4	125
Median		17.5	666	7.8	9.1	131
Quartile 1		10.0	520	7.6	8.1	87.0
Quartile 3		20.2	1940	7.8	10.3	230

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

G4: 544SJC509 – Mt House Creek @ Mt. House Parkway continued…

Date	TSS (mg/L)	TOC (mg/L)	Total Coli MPN	*E. coli* MPN
12/27/2000	15	2.6		
1/23/2001	16	6.1		
2/10/2001	25	3.1		
2/11/2001	37	6.6		
2/20/2001	26	4.2		
3/27/2001	49	NA		
5/29/2001	76	14		
6/26/2001	34	13		
8/28/2001	110	9.8		
9/25/2001	NA	9.2		
4/23/2002		NA		
6/18/2002		5.8		
7/31/2002			>2419.6	1046
9/24/2002		4.7		
10/15/2002			DRY	DRY
10/29/2002		2.8		
12/17/2002		14		
1/15/2003			DRY	DRY
3/25/2003		4.6		
4/22/2003			DRY	DRY
5/27/2003		NA		
7/29/2003			>2419.6	1203
8/26/2003			DRY	DRY
9/23/2003			DRY	DRY
10/28/2003			DRY	DRY
11/18/2003			DRY	DRY
Count	9	14	2	2
Min	15	2.6	2420	1046
Max	110	14	2420	1203
Mean	43	7.2	NA	NA
Geo Mean	35	6.1	2420	1122
Median	34	6.0	2420	1125
Quartile 1	25	4.3	2420	1085
Quartile 3	49	9.7	2420	1164

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

G4: 544SJC509 – Mt House Creek @ Mt. House Parkway 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)
12/27/2000	5.2		2.6		0.2	<1	22	2.8	6.6
1/23/2001	7.6		2.3		0.2	<1	21	2.2	5.2
2/10/2001	4.9		<2		0.2	<1	19	1.4	3.7
2/11/2001	5.5		<2		0.2	<1	20		
2/20/2001	5.7		<2		0.2	0.2	19	1.7	3.4
3/27/2001	5.3		<2		0.3	<1	5.9	2.4	3.9
5/29/2001	2.2		2.1		0.3	<1	6.5	7.0	11.6
6/26/2001	2.5		<2		0.4	<1	7.4	8.0	15.3
8/28/2001	4.8		<2		0.3	<1	6.1		
9/25/2001	<2		<2		0.2	<1	10		
4/23/2002	NA		NA		NA	NA	4.3	1.2	2.1
6/18/2002	NA		0.9		NA	0.2	5.0	2.7	4.5
9/24/2002	NA		NA		0.1	0.1	6.2	1.9	3.3
10/29/2002	NA		0.6		0.1	<0.03	3.9	1.3	2.0
12/17/2002	NA		3.4		0.3	0.3	13	7.0	13.2
Count	10	NA	13	NA	13	14	15	12	12
Min	1.0	NA	0.6	NA	0.1	0.02	3.9	1.2	2.0
Max	7.6	NA	3.4	NA	0.4	0.5	22	8.0	15.3
Mean	4.5	NA	1.5	NA	0.2	0.4	11	3.3	6.2
Geo Mean	3.9	NA	1.3	NA	0.2	0.3	9.4	2.6	5.0
Median	5.1	NA	1.0	NA	0.2	0.5	7.4	2.3	4.2
Quartile 1	3.1	NA	1.0	NA	0.2	0.2	6.0	1.6	3.4
Quartile 3	5.5	NA	2.1	NA	0.3	0.5	19	3.9	7.9

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

G4: 544SJC509 – Mt House Creek @ Mt. House Parkway 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)
12/27/2000	410			1.3	3.7	<5	6.3	2.2	
1/23/2001	460			1.0	3.8	<5	5.7	<2	
2/10/2001	470			1.8	4.3	<5	6.0	3.4	
2/11/2001	480			2.2	5.4	<5	6.6	4.7	
2/20/2001	460			1.4	4.6	<5	5.7	<2	
3/27/2001	120			3.2	6.5	<5	7.8	8.6	
5/29/2001	120			2.4	6.8	<5	7.8	7.7	
6/26/2001		2.1	<1	1.5	8.0	<5	7.7	6.9	<0.2
8/28/2001	90	3.1	<1	7.0	8.6	<5	12	20	
9/25/2001	130	<4	<0.1	2.5	5.5	<5	6.1	6.2	<0.2
4/23/2002	94	<4.0	<0.1	1.4	5.1	<5.0	<5.0	5.7	<0.2
6/18/2002	100	<4.0	<0.1	2.9	6.0	<5.0	6.1	8.0	<0.2
9/24/2002	140	<4.0	<0.1	6.0	8.4	<5.0	9.7	15	<0.2
10/29/2002	130	<4.0	<0.1	3.5	7.8	<5.0	6.6	8.7	<0.2
3/25/2003	120	<4.0	<0.1	3.7	5.3	<5.0	6.1	7.8	<0.2
5/27/2003	110	<4.0	<0.1	2.3	10	<5.0	5.3	5.5	<0.2
Count	15	9	9	16	16	16	16	16	8
Min	90	2.0	0.1	1.0	3.7	2.5	2.5	1.0	0.1
Max	480	3.1	0.5	7.0	10	2.5	12	20	0.1
Mean	229	2.1	0.2	2.8	6.2	2.5	6.8	7.0	0.1
Geo Mean	181	2.1	0.1	2.4	6.0	2.5	6.4	5.4	0.1
Median	130	2.0	0.1	2.4	5.8	2.5	6.2	6.6	0.1
Quartile 1	115	2.0	0.1	1.5	5.0	2.5	5.9	4.4	0.1
Quartile 3	435	2.0	0.1	3.3	7.9	2.5	7.7	8.2	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

G4: 544SJC509 – Mt House Creek @ Mt. House Parkway 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)
12/27/2000	410			<1	2.1	<5	5.2	<2	
1/23/2001	460			<1	2.2	<5	5.0	<2	
2/10/2001	470			<1	2.7	<5	<5	<2	
2/11/2001	480			<1	2.9	<5	<5	<2	
2/20/2001	460			<1	3.4	<5	<5	<2	
3/27/2001	120			<1	3.3	<5	<5	2.8	
5/29/2001	120			<1	4.3	<5	<5	4.5	
6/26/2001		2.0	<1	<1	6.2	<5	5.6	3.3	<0.2
8/28/2001	90	2.3	<1	<1	3.9	<5	<5	5.4	
9/25/2001	130	<4	<0.1	<1	3.6	<5	<5	15	<0.2
4/23/2002	94	<4.0	<0.1	<1.0	4.1	<5.0	<5.0	3.7	<0.2
6/18/2002	100	<4.0	<0.1	<1.0	1.5	<5.0	<5.0	2.8	<0.2
9/24/2002	140	<4.0	<0.1	<1.0	3.1	<5.0	<5.0	<2.0	<0.2
10/29/2002	130	<4.0	<0.1	<1.0	3.8	<5.0	<5.0	<2.0	<0.2
Count	13	7	7	14	14	14	14	14	6
Min	90	2.0	0.1	0.5	1.5	2.5	2.5	1.0	0.1
Max	480	2.3	0.5	0.5	6.2	2.5	5.6	15.0	0.1
Mean	246	2.0	0.2	0.5	3.4	2.5	3.1	3.2	0.1
Geo Mean	194	2.0	0.1	0.5	3.2	2.5	2.9	2.1	0.1
Median	130	2.0	0.1	0.5	3.4	2.5	2.5	1.9	0.1
Quartile 1	120	2.0	0.1	0.5	2.8	2.5	2.5	1.0	0.1
Quartile 3	460	2.0	0.3	0.5	3.9	2.5	2.5	3.6	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

G4: 544SJC509 – Mt House Creek @ Mt. House Parkway 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)
12/27/2000	410	430	72	57	1800	<1	480	400	480
1/23/2001	400	480	82	61	1800	<1	470	380	480
2/10/2001	400	470	84	63	1800	<1	460	380	480
2/11/2001	410	490	86	64	1900	<1	450	370	490
2/20/2001	370	470	85	60	1800	<1	440	360	450
3/27/2001	60	60	26	14	NA	<1	120	100	57
5/29/2001	51	45	25	14	250	<1	88	88	45
8/28/2001	120	31	23	8	390	<1	96	79	77
9/25/2001	140	42	24	17	NA	<1	99	81	93
4/23/2002	26	23	19	11	240	<1.0	100	83	37
6/18/2002	35	30	21	11	NA	<1.0	82	NA	35
9/24/2002	150	32	24	19	NA	<1.0	100	83	98
10/29/2002	130	35	22	18	430	<1.0	110	89	87
3/25/2003	80	31	22	15					
5/27/2003	66	63	21	14					
Count	15	15	15	15	9	13	13	12	13
Min	26	23	19	8	240	0.5	82	79	35
Max	410	490	86	64	1900	0.5	480	400	490
Mean	190	182	42	30	1157	0.5	238	208	224
Geo Mean	129	87	35	23	837	0.5	178	159	135
Median	130	45	24	17	1800	0.5	110	95	93
Quartile 1	63	32	22	14	390	0.5	99	83	57
Quartile 3	385	450	77	59	1800	0.5	450	373	480

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

G4: 544SJC509 – Mt House Creek @ Mt. House Parkway 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(%)
1/23/2001	100	100	100	NA			
2/20/2001	80	90	100	100			
3/27/2001	100	100	100	100			
5/29/2001	85	95	100	100			
6/19/2001	100	100	100	90			
6/26/2001	95	100	80	100			
4/23/2002	100	95	100	100			
6/18/2002	100	100	100	100			
9/24/2002	95	100	100	100			
10/29/2002	100	95	100	100			
12/17/2002	100	100	100	100	2.57	2.92	NA
5/28/2003	90	100	100	100	3.48**	2.04	8
Count	12	12	12	11	2	2	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
[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