APPENDIX A

SJR MAIN STEM

APPENDIX A: SJR MAIN STEM

A1: 541MAD007 – SJR @ Sack Dam

Station Code: 514MAD007

Location: Latitude 36.98361, Longitude -120.50028

Date	Time	Temp (°C)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
10/26/2000	8:50 AM	13.1	510	7.4		
11/30/2000	6:35 AM	9.3	663	6.8		
12/28/2000	8:00 AM	5.6	616	8.0		
1/25/2001	8:50 AM	7.5	760	7.2		
2/7/2001	8:52 AM	8.3	726	8.8		
2/22/2001	8:15 AM	10.3	697	8.1		
3/13/2001	9:36 AM	16.7	568	6.9		
3/29/2001	8:30 AM	18.2	913	8.0		
4/18/2001	9:30 AM	17.5	602	7.5		
4/26/2001	1:30 PM	26.3	679	7.2		
5/15/2001	9:40 AM	19.1	509	6.6		
5/31/2001	11:30 AM	24.1	530	7.9		
6/28/2001	9:52 AM	22.1	465	7.6	6.8	
7/26/2001	10:30 AM	25.7	380	7.6	NA	
8/14/2001	9:29 AM	23.9	514	7.9	7.5	
8/30/2001	10:50 AM	23.2	641	8.3	NA	
9/27/2001	9:28 AM	20.9	713	7.9	7.7	
10/25/2001	9:21 AM	15.6	661	8.5	9.7	
11/29/2001	11:24 AM	10.3	1010	8.0	10.9	
12/27/2001	10:55 AM	8.8	748	7.9	11.4	
1/31/2002	9:25 AM	5.5	651	7.6	12.9	
2/28/2002	9:14 AM	14.3	745	7.8	9.1	
3/28/2002	9:42 AM	16.4	691	8.1	11.7	
4/24/2002	9:13 AM	18.3	477	8.4	8.6	
5/30/2002	10:13 AM	23.1	520	7.9	4.9	
6/20/2002	9:05 AM	22.6	462	7.2	7.9	NA
7/30/2002	9:20 AM	24.2	466	7.6	6.6	71.1
8/29/2002	9:00 AM	22.8	558	7.7	7.7	NA
9/26/2002	9:28 AM	21.3	650	7.8	7.6	
10/17/2002	9:59 AM	16.6	615	7.8	8.3	51.9
10/31/2002	9:55 AM	13.8	624	7.6	10.7	NA
11/21/2002	9:40 AM	12.2	609	7.9	10.3	12.6
12/19/2002	9:08 AM	8.1	642	7.3	10.4	7.3
1/14/2003	9:07 AM	11.4	701	7.9	9.5	30.0
1/30/2003	9:45 AM	13.0	600	7.0	10.8	31.1
3/27/2003	11:12 AM	15.8	682	8.1	13.9	25.6
4/24/2003	10:10 AM	17.3	449	7.6	8.1	85.9
5/29/2003	9:05 AM	24.5	583	7.4	7.1	112
6/26/2003	8:50 AM	24.0	272	7.8	8.7	55.6

A1: 541MAD007 – SJR @ Sack Dam continued…

Date	Time	Temp (ºC)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
7/31/2003	9:40 AM	26.3	337	7.6	6.4	73.2
8/28/2003	9:32 AM	23.4	505	7.7	7.4	56.7
9/25/2003	9:27 AM	20.9	391	7.6	7.8	111
10/30/2003	9:47 AM	16.2	530	8.0	7.6	18.1
11/20/2003	9:51 AM	12.7	540	7.9	9.9	16.9
1/29/2004	9:42 AM	9.0	446	8.0	13.6	62.9
2/26/2004	9:25 AM	11.9	678	7.9	8.9	NA
3/24/2004	9:53 AM	17.1	384	7.8	9.0	NA
4/29/2004	9:02 AM	16.8	528	8.3	8.6	24.5
5/27/2004	9:29 AM	20.1	479	7.6	8.0	49.4
6/24/2004	9:25 AM	22.7	544	7.8	5.4	NA
7/29/2004	9:04 AM	25.1	380	8.2	7.8	NA
8/26/2004	9:08 AM	22.6	443	7.8	0.6	NA
9/30/2004	8:46 AM	18.3	506	8.6	7.7	NA
10/28/2004	8:55 AM	12.5	561	8.4	9.3	
11/23/2004	9:02 AM	9.6	559	7.8	11.8	
12/29/2004	8:41 AM	9.3	581	7.8	10.9	
1/27/2005	8:50 AM	11.1	479	8.1	11.6	
2/24/2005	9:41 AM	14.0	888	7.9	9.7	
3/29/2005	10:00 AM	14.4	725	8.0	9.8	
4/28/2005	9:01 AM	16.8	223	8.1	8.4	
5/26/2005	8:52 AM	20.2	85	7.7	8.1	
6/30/2005	9:00 AM	23.3	109	7.9	7.7	
7/28/2005	9:03 AM	26.4	348	7.9	7.0	
8/25/2005	9:07 AM	23.9	404	8.0	8.0	
9/29/2005	9:19 AM	20.6	402	6.2	7.4	
Count		65	65	65	51	18
Min		5.5	85	6.2	0.6	7.3
Max		26.4	1010	8.8	13.9	112
Mean		17.2	553	7.8	8.8	49.8
Geo Mean		16.0	519	7.8	8.3	39.1
Median		17.1	558	7.8	8.4	50.7
Quartile 1		12.5	465	7.6	7.7	24.8
Quartile 3		22.7	661	8.0	10.1	69.1

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

A1: 541MAD007 – SJR @ Sack Dam continued…

Date	TSS (mg/L)	TOC (mg/L)	Total Coli MPN	*E. coli* MPN
10/26/2000	18	2.4		
11/30/2000	57	2.2		
12/28/2000	NA	1.8		
1/25/2001	40	3.8		
2/22/2001	32	2.9		
3/29/2001	NA	<1		
4/26/2001		4		
5/31/2001	26	4		
6/28/2001	33	5.5		
7/26/2001		3		
8/30/2001	32	6.5		
9/27/2001	50			
10/25/2001		9.5		
11/29/2001		<1		
1/31/2002		3.5		
3/28/2002		NA		
4/24/2002		7.8		
5/30/2002		2.9		
6/20/2002		2.9		
7/30/2002			>2419.6	19
9/26/2002		2.7		
10/17/2002			>2419.6	29
10/31/2002		NA		
11/21/2002		2.1		
12/19/2002		2.6		
1/14/2003			816	40
3/27/2003		2.3		
4/24/2003		NA	1986	59
5/29/2003		4.7		
6/26/2003		2.9		
7/31/2003			>2419.6	20
8/28/2003			>2419.6	23
9/25/2003			>2419.6	29
10/30/2003			>2419.6	38
11/20/2003			1986	30
1/29/2004			727	24
2/26/2004			770	138
3/24/2004			>2419.6	50
4/29/2004			>2419.6	248
5/27/2004			>2419.6	91
6/24/2004			>2419.6	31
7/29/2004			>2419.6	73

A1: 541MAD007 – SJR @ Sack Dam continued…

Date	TSS (mg/L)	TOC (mg/L)	Total Coli MPN	*E. coli* MPN
8/26/2004			>2419.6	101
9/30/2004			>2419.6	36
10/28/2004		3.4	>2419.6	61
11/23/2004		4	1203	44
12/29/2004		4.4	1986	47
1/27/2005		11	2420	39
2/24/2005		6.4	1986	63
3/29/2005		5.3	1120	26
4/28/2005		4.8	>2419.6	44
5/26/2005		4.6	>2419.6	105
6/30/2005		NA	1011	46
7/28/2005		NA	>2419.6	32
8/25/2005		2.4	>2419.6	41
9/29/2005		2.5	>2419.6	64
Count	8	33	30	30
Min	18	0.5	727	19
Max	57	11	2420	248
Mean	36	3.9	NA	NA
Geo Mean	34	3.3	1944	46
Median	33	3.4	2420	43
Quartile 1	31	2.5	1986	30
Quartile 3	43	4.7	2420	63

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

A1: 541MAD007 – SJR @ Sack Dam continued…

Date	Nitrate (mg/L)	Nitrate-N (mg/L)	TKN (mg/L)	Ammonia-N (mg/L)	Phosphorus (mg/L)	Ortho-phosphate-P (mg/L)	Potassium (mg/L)	BOD 5-Day (mg/L)	BOD 10-Day (mg/L)
10/26/2000	3.5		<2		NA	<1	4.3	0.7	1
11/30/2000	5		<2		<0.1	<1	6	0.9	1.5
12/28/2000	5		<2		<0.1	<1	5.2	0.8	1
1/25/2001	NA		NA		0.2	<1	5.9	1	1.7
2/7/2001	NA		<2		NA	<1	NA		
2/22/2001	9		<2		NA	<1	5.4	0.7	1.4
3/29/2001	9.7		NA		0.2	<1	6.9	0.7	1.4
4/18/2001	5.9		<2		0.1	<1	4.8		
4/26/2001	7.6		<2		0.2	<1	5.1	0.9	1.7
5/15/2001	4		<2		0.1	<1	4.6		
5/31/2001	3.7		<2		0.1	<1	4.6	0.7	1.2
6/28/2001	3.6		<2		0.2	<1	4.3	0.5	1.2
8/14/2001	2.4		<2		0.2	<1	4.8		
8/30/2001	2.4		<2		0.2	<1	5.2		
9/27/2001	2.9		<2		0.2	<1	6.8		
10/25/2001	2.7		<2		0.1	<1	6	0.6	0.8
11/29/2001	NA		NA		NA	0.1	NA	1.2	2
12/27/2001	NA		NA		0.1	0.1	4.6	0.6	1.4
1/31/2002	NA		1.3		0.2	0.1	NA	1	1.6
2/28/2002	NA		NA		0.1	0.1	3.5	0.6	1.2
3/28/2002	NA		0.4		0.1	0.1	3.5	0.8	1.2
4/24/2002	NA		NA		0.2	0.1	4.1	0.9	1.5
5/30/2002	NA		NA		NA	0.1	4.7	0.7	0.9
6/20/2002	NA		0.4		NA	0.1	4	0.7	1.3
8/29/2002	NA		1		NA	0.1	4.5	0.8	1.3
9/26/2002	NA		0.3		0.1	0.1	5.7	0.8	1.4
10/31/2002	NA		0.1		0.1	0.1	3.7	0.3	0.5

A1: 541MAD007 – SJR @ Sack Dam continued…

Date	Nitrate (mg/L)	Nitrate-N (mg/L)	TKN (mg/L)	Ammonia-N (mg/L)	Phosphorus (mg/L)	Ortho-phosphate-P (mg/L)	Potassium (mg/L)	BOD 5-Day (mg/L)	BOD 10-Day (mg/L)
11/21/2002	NA		0.4		<0.05	<0.03	3.4	0.8	1
12/19/2002	NA		0.4		<0.05	<0.03	3.7	1.1	1.4
1/30/2003	NA		1.2		NA	0.1	3	1	1.5
Count	14	NA	23	NA	22	30	27	24	24
Min	2.4	NA	0.1	NA	0.03	0.02	3.0	0.3	0.5
Max	9.7	NA	1.3	NA	0.2	0.5	6.9	1.2	2.0
Mean	4.8	NA	0.8	NA	0.1	0.3	4.8	0.8	1.3
Geo Mean	4.3	NA	0.7	NA	0.1	0.2	4.6	0.8	1.3
Median	3.9	NA	1.0	NA	0.1	0.5	4.6	0.8	1.4
Quartile 1	3.1	NA	0.7	NA	0.1	0.1	4.1	0.7	1.2
Quartile 3	5.7	NA	1.0	NA	0.2	0.5	5.3	0.9	1.5

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

A1: 541MAD007 – SJR @ Sack Dam continued…

Date	Hardness (mg/L)	Total Arsenic (ug/L)	Total Cadmium (ug/L)	Total Chromium (ug/L)	Total Copper (ug/L)	Total Lead (ug/L)	Total Nickel (ug/L)	Total Zinc (ug/L)	Total Mercury (ug/L)
11/30/2000	110			2	3.5	<5	<5	6.7	
12/28/2000	140			<1	2.2	<5	<5	<2	
1/25/2001	130			1.8	3.8	<5	<5	4.8	
2/22/2001	160			1.6	3.6	<5	<5	5.1	
3/29/2001	160			2.2	3.8	<5	<5	5.5	
4/26/2001	210			1.8	3	<5	<5	3.7	
5/31/2001	170			1.1	2.8	<5	<5	4.1	
6/28/2001	120	3.1	<1	1.9	3.4	<5	<5	4.8	<0.2
7/26/2001	110	NA	NA	2.6	3.4	<5	<5	NA	NA
8/30/2001	120	3.5	<1	1.5	2.3	<5	<5	4.2	
9/27/2001	130	<4	<0.1	2.5	4.7	<5	<5	6.5	<0.2
10/25/2001	120	<4	<0.1	<1	1.9	<5	<5	<2	NA
11/29/2001	100	<4	<0.1	3.9	4	<5	6	12	<0.2
12/27/2001	150	<4	<0.1	3	4.2	<5	5.2	7.9	<0.2
2/28/2002	150	<4.0	<0.1	1.3	4	<5.0	<5.0	7	<0.2
3/28/2002	190	<4.0	<0.1	<1.0	2.6	<5.0	NA	4.2	<0.2
4/24/2002	120	4.1	<0.1	<1.0	1.9	<5.0	<5.0	<2.0	<0.2
5/30/2002	120	<4.0	<0.1	1	2.6	<5.0	<5.0	<2.0	<0.2
6/20/2002	110	<4.0	<0.1	1	2.5	<5.0	<5.0	3.5	<0.2
9/26/2002	130	<4.0	<0.1	2	3.7	<5.0	<5.0	5.2	<0.2
10/31/2002	130	<4.0	<0.1	<1.0	1.7	<5.0	<5.0	<2.0	<0.2
11/21/2002	130	<4.0	<0.1	<1.0	2.5	<5.0	<5.0	2.1	<0.2
3/27/2003	150	<4.0	<0.1	1.4	2.9	<5.0	<5.0	2.9	<0.2
4/24/2003	120	<4.0	<0.1	4.3	5.2	<5.0	5.9	9.4	<0.2
5/29/2003	140	<4.0	<0.1	1.6	4	<5.0	<5.0	3.5	<0.2
6/26/2003	76	<4.0	<0.1	2.4	3.4	<5.0	<5.0	5.7	NA

A1: 541MAD007 – SJR @ Sack Dam 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	26	18	18	26	26	26	25	25	15
Min	76	2.0	0.1	0.5	1.7	2.5	2.5	1.0	0.1
Max	210	4.1	0.5	4.3	5.2	2.5	6.0	12.0	0.1
Mean	134	2.3	0.1	1.7	3.2	2.5	2.9	4.6	0.1
Geo Mean	132	2.2	0.1	1.4	3.1	2.5	2.8	3.6	0.1
Median	130	2.0	0.1	1.6	3.4	2.5	2.5	4.2	0.1
Quartile 1	120	2.0	0.1	1.0	2.5	2.5	2.5	2.9	0.1
Quartile 3	150	2.0	0.1	2.2	3.8	2.5	2.5	5.7	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

A1: 541MAD007 – SJR @ Sack Dam continued…

Date	Hardness (mg/L)	Dissolved Arsenic (ug/L)	Dissolved Cadmium (ug/L)	Dissolved Chromium (ug/L)	Dissolved Copper (ug/L)	Dissolved Lead (ug/L)	Dissolved Nickel (ug/L)	Dissolved Zinc (ug/L)	Dissolved Mercury (ug/L)
11/30/2000	110			<1	1.1	<5	<5	3.2	
12/28/2000	140			<1	<1	<5	<5	<2	
1/25/2001	130			<1	<1	<5	<5	<2	
2/22/2001	160			<1	1.5	<5	<5	<2	
3/29/2001	160			<1	2.3	<5	<5	<2	
4/26/2001	210			<1	1.2	<5	<5	<2	
5/31/2001	170			<1	1.4	<5	<5	<2	
6/28/2001	120	2.8	<1	<1	<1	<5	<5	<2	<0.2
7/26/2001	110	NA	NA	NA	NA	NA	NA	NA	NA
8/30/2001	120	2.9	<1	<1	1.2	<5	<5	<2	
9/27/2001	130	<4	<0.1	<1	1.6	<5	<5	<2	<0.2
10/25/2001	120	<4	<0.1	<1	1.7	<5	<5	<2	NA
11/29/2001	100	<4	<0.1	<1	<1	<5	<5	5.7	<0.2
12/27/2001	150	<4	<0.1	<1	2.3	<5	<5	2.1	<0.2
2/28/2002	150	<4.0	<0.1	<1.0	2.3	<5.0	<5.0	4.6	<0.2
3/28/2002	190	<4.0	<0.1	<1.0	1.2	<5.0	<5.0	2.9	<0.2
4/24/2002	120	5.6	<0.1	<1.0	3.2	<5.0	<5.0	<2.0	<0.2
5/30/2002	120	<4.0	<0.1	<1.0	1.9	<5.0	<5.0	<2.0	<0.2
6/20/2002	110	<4.0	<0.1	<1.0	1.9	<5.0	<5.0	2.5	<0.2
9/26/2002	130	<4.0	<0.1	<1.0	1.1	<5.0	<5.0	<2.0	<0.2
10/31/2002	130	<4.0	<0.1	<1.0	<1.0	<5.0	<5.0	<2.0	<0.2
11/21/2002	130	<4.0	<0.1	<1.0	1.6	<5.0	<5.0	<2.0	<0.2

A1: 541MAD007 – SJR @ Sack Dam 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	22	14	14	21	21	21	21	21	12
Min	100	2.0	0.1	0.5	0.5	2.5	2.5	1.0	0.1
Max	210	5.6	0.5	0.5	3.2	2.5	2.5	5.7	0.1
Mean	137	2.4	0.1	0.5	1.4	2.5	2.5	1.7	0.1
Geo Mean	134	2.3	0.1	0.5	1.2	2.5	2.5	1.4	0.1
Median	130	2.0	0.1	0.5	1.4	2.5	2.5	1.0	0.1
Quartile 1	120	2.0	0.1	0.5	1.1	2.5	2.5	1.0	0.1
Quartile 3	150	2.0	0.1	0.5	1.9	2.5	2.5	2.1	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

A1: 541MAD007 – SJR @ Sack Dam continued…

Date	Chloride (mg/L)	Sulfate (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	TDS (mg/L)	Carbonate (mg/L)	Bicarbonate (mg/L)	Total Alkalinity (mg/L)	Sodium (mg/L)
10/26/2000	72	46	22	12	280	<1	104	90	55
11/30/2000	90	68	29	17	380	<1	100	90	75
12/28/2000	94	61	26	16	340	<1	110	90	69
1/25/2001	110	86	31	19	430	<1	110	90	88
2/22/2001	77	92	34	18	430	<1	120	94	77
3/29/2001	100	130	45	23	580	<1	140	120	100
4/26/2001	73	120	37	18	430	<1	94	94	71
5/31/2001	72	55	24	14	300	<1	78	78	57
6/28/2001	61	47	23	13	260	<1.0	100	83	50
8/30/2001	100	46	22	15	340	<1	110	87	73
9/27/2001	120	48	23	18	380	<1	110	90	89
10/25/2001	110	44	22	16	NA	<1	100	86	80
11/29/2001	150	97	22	12	600	<1	170	140	170
12/27/2001	110	72	29	18	400	<1	120	98	84
1/31/2002	74	87	32	17	NA	<1	NA	NA	66
2/28/2002	94	110	40	21	450	<1	130	110	88
3/28/2002	88	96	35	19	NA	<1.0	120	98	75
4/24/2002	64	51	25	14	NA	<1.0	100	82	50
5/30/2002	37	27	24	15	270	<1.0	98	80	58
6/20/2002	59	50	23	13	NA	<1.0	98	80	49
9/26/2002	120	39	23	17	NA	<1.0	100	84	82
10/31/2002	100	49	25	16	340	<1.0	110	89	75
11/21/2002	100	41	25	16	340	<1.0	100	82	70
3/27/2003			33	17					
4/24/2003	50	55	25	14					
5/29/2003	85	73	29	16					

A1: 541MAD007 – SJR @ Sack Dam 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)
6/26/2003	24	30	17	8					
Count	26	26	27	27	17	23	22	22	23
Min	24	27	17	8	260	0.5	78	78	49
Max	150	130	45	23	600	0.5	170	140	170
Mean	86	66	28	16	385	0.5	110	93	76
Geo Mean	81	61	27	16	375	0.5	110	92	73
Median	89	55	25	16	380	0.5	110	90	75
Quartile 1	72	46	23	14	340	0.5	100	83	62
Quartile 3	100	87	32	18	430	0.5	120	94	83

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

A2: 541MER522 – SJR @ Lander Avenue

Station Code: 541MER522

Location: Latitude 37.29528, Longitude -120.85028

Date	Time	Temp (ºC)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
10/5/2000	10:00 AM	20.8	1700	7.0		
10/12/2000	10:55 AM	17.4	1610	7.8		
10/19/2000	8:40 AM	17.5	809	7.9		
10/26/2000	1:40 PM	15.9	1020	7.0		
11/2/2000	9:41 AM	14.5	204	7.3		
11/9/2000	9:25 AM	13.5	663	7.8		
11/16/2000	10:10 AM	10.9	1150	6.7		
11/21/2000	7:40 AM	9.6	1410	8.2		
11/30/2000	9:12 AM	9.9	1430	6.6		
12/7/2000	9:00 AM	10.1	872	7.9		
12/12/2000	8:50 AM	11.1	1250	7.6		
12/21/2000	10:55 AM	10.0	1330	7.8		
12/28/2000	10:25 AM	8.9	1310	7.2		
1/4/2001	9:00 AM	8.5	1260	7.8		
1/11/2001	10:45 AM	9.1	927	7.7		
1/18/2001	9:00 AM	7.4	966	7.8		
1/25/2001	11:30 AM	10.4	1260	7.3		
2/1/2001	10:22 AM	8.0	731	7.4		
2/8/2001	9:50 AM	10.5	1100	7.9		
2/10/2001	8:20 AM	10.2	1160	NA		
2/11/2001	12:28 AM	10.1	1230	7.8		
2/15/2001	10:50 AM	9.9	515	7.3		
2/22/2001	11:35 AM	12.9	1150	7.3		
3/1/2001	8:45 AM	11.6	504	6.8		
3/8/2001	9:30 AM	15.3	260	7.2		
3/15/2001	11:05 AM	16.9	625	7.2		
3/22/2001	11:22 AM	20.1	1060	7.7		
3/29/2001	10:25 AM	21.3	1980	7.4		
4/5/2001	11:50 AM	16.8	1320	7.7		
4/12/2001	9:40 AM	14.2	851	6.8		
4/19/2001	11:35 AM	17.2	1170	8.5		
4/26/2001	10:29 AM	22.5	846	7.4		
5/3/2001	10:00 AM	18.5	1800	7.9		
5/10/2001	8:15 AM	22.9	1490	7.8		
5/17/2001	11:35 AM	24.2	1740	7.7		
5/24/2001	8:50 AM	22.1	1690	6.8		
5/31/2001	9:00 AM	25.0	1840	8.2		
6/7/2001	10:45 AM	24.7	1990	8.5	8.6	

A2: 541MER522 – SJR @ Lander Avenue continued…

Date	Time	Temp (ºC)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
6/14/2001	9:52 AM	23.2	1710	7.9	8.8	
6/21/2001	12:04 PM	30.0	1590	8.9	22.0	
6/28/2001	12:15 PM	24.6	1920	8.2	10.1	
7/5/2001	8:36 AM	26.1	1670	8.0	7.8	
7/11/2001	10:55 AM	26.5	1960	8.7	22.0	
7/19/2001	10:59 AM	26.2	1190	8.8	23.3	
7/26/2001	2:00 PM	29.6	1380	8.8	NA	
8/2/2001	9:05 AM	25.1	939	8.4	14.4	
8/9/2001	8:44 AM	26.5	1610	8.1	11.3	
8/16/2001	9:50 AM	24.8	1460	8.6	14.3	
8/23/2001	8:46 AM	23.8	1010	8.5	11.1	
8/30/2001	12:55 PM	26.0	1290	8.3	NA	
9/6/2001	8:09 AM	23.6	1370	7.9	7.8	
9/13/2001	8:42 AM	21.8	1290	7.8	7.2	
9/20/2001	10:51 AM	25.7	1640	7.5	8.9	
9/27/2001	11:43 AM	23.2	1760	8.3	11.1	
10/4/2001	8:18 AM	21.6	1600	7.9	7.0	
10/11/2001	9:00 AM	18.5	1710	8.1	8.8	
10/18/2001	8:52 AM	18.9	1550	8.0	8.3	
10/25/2001	11:15 AM	16.6	1120	8.1	12.3	
11/1/2001	9:19 AM	16.8	1420	7.8	9.0	
11/8/2001	9:00 AM	15.1	1020	8.4	9.6	
11/15/2001	9:01 AM	13.5	1230	8.1	9.6	
11/20/2001	10:58 AM	14.7	1140	7.6	8.6	
11/29/2001	9:58 AM	10.8	1390	7.9	10.4	
12/6/2001	8:30 AM	9.7	353	7.5	9.6	
12/13/2001	8:59 AM	9.9	1180	7.9	9.2	
12/20/2001	10:02 AM	10.1	1330	7.9	10.5	
12/27/2001	9:47 AM	10.1	840	7.5	8.5	
1/3/2002	8:56 AM	12.4	226	7.7	9.4	
1/10/2002	8:47 AM	11.5	332	7.6	8.9	
1/17/2002	8:02 AM	8.1	555	7.8	10.4	
1/24/2002	12:03 PM	8.0	713	7.5	10.5	
1/31/2002	11:27 AM	7.4	609	7.9	11.9	
2/7/2002	8:28 AM	10.4	883	7.9	11.7	
2/14/2002	8:24 AM	12.1	867	7.6	10.1	
2/21/2002	10:15 AM	14.0	826	8.0	11.4	
2/28/2002	1:48 PM	16.8	1320	8.2	11.6	
3/7/2002	8:30 AM	15.2	1360	8.2	12.0	

A2: 541MER522 – SJR @ Lander Avenue continued…

Date	Time	Temp (ºC)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
3/14/2002	11:22 AM	13.7	1820	8.0	12.2	
3/21/2002	11:19 AM	15.1	1840	7.7	11.6	
3/28/2002	12:44 PM	18.0	1880	8.2	15.9	
4/4/2002	8:28 AM	19.8	1820	7.9	9.9	
4/11/2002	8:51 AM	18.9	1820	7.9	9.5	
4/18/2002	7:03 AM	16.8	1570	8.1	9.1	
4/24/2002	11:17 AM	20.4	2100	8.3	12.8	
5/2/2002	7:57 AM	18.1	1850	8.2	11.2	
5/9/2002	8:57 AM	20.3	1610	8.2	14.1	
5/16/2002	9:03 AM	21.9	1740	8.6	13.7	22.8
5/23/2002	6:45 AM	18.0	1860	7.9	NA	
5/30/2002	11:33 AM	26.2	2030	8.2	10.8	
6/6/2002	7:40 AM	25.1	2030	7.9	NA	
6/13/2002	10:52 AM	25.2	1970	7.9	NA	
6/20/2002	11:07 AM	25.2	1960	8.3	7.8	28.7
6/27/2002	9:23 AM	25.0	1810	8.1	5.4	
7/3/2002	9:45 AM	26.2	1670	8.3	NA	
7/11/2002	11:39 AM	27.7	1880	8.7	NA	
7/18/2002	8:45 AM	25.4	2010	8.5	8.9	21.5
7/25/2002	8:14 AM	24.8	1720	8.3	8.3	
7/30/2002	10:59 AM	25.9	1360	9.0	19.1	35.1
8/1/2002	8:28 AM	24.9	1560	8.7	13.7	
8/8/2002	9:43 AM	23.9	1510	8.9	15.4	
8/15/2002	8:14 AM	24.7	1590	8.6	13.2	
8/22/2002	8:36 AM	23.3	1510	8.3	10.1	
8/29/2002	11:11 AM	25.0	1710	8.8	13.8	35.2
9/5/2002	8:15 AM	23.7	1690	7.8	4.7	
9/12/2002	8:03 AM	22.8	1740	7.9	4.8	
9/19/2002	8:36 AM	22.1	1910	7.9	7.5	NA
9/26/2002	11:18 AM	23.5	2060	8.3	11.6	
10/3/2002	8:58 AM	16.0	2080	8.2	8.9	
10/10/2002	11:05 AM	20.9	2050	7.9	7.5	
10/17/2002	11:43 AM	18.8	2070	8.1	11.1	18.8
10/24/2002	9:39 AM	16.4	1870	8.2	12.5	
10/31/2002	11:50 AM	15.7	2200	8.2	11.3	34.5
11/7/2002	8:54 AM	13.6	2260	7.9	9.6	
11/14/2002	9:30 AM	14.8	540	7.3	4.6	
11/21/2002	8:29 AM	13.5	1040	7.1	6.1	20.8
11/26/2002	11:10 AM	13.6	1350	8.1	14.9	

A2: 541MER522 – SJR @ Lander Avenue continued…

Date	Time	Temp (ºC)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
12/5/2002	8:49 AM	11.3	1640	7.7	11.4	42.7
12/12/2002	8:51 AM	11.0	1450	7.6	9.6	
12/19/2002	11:17 AM	9.6	153	7.4	8.1	114
12/24/2002	9:49 AM	7.8	251	7.7	11.4	
1/2/2003	11:06 AM	9.6	311	8.1	14.1	
1/9/2003	9:56 AM	10.1	658	8.0	10.6	
1/16/2003	10:27 AM	10.9	402	7.8	8.9	49.3
1/23/2003	8:18 AM	11.8	926	6.5	10.0	
1/30/2003	9:00 AM	13.0	872	7.5	7.5	38.2
2/6/2003	9:44 AM	10.2	1070	7.9	11.9	
2/13/2003	10:54 AM	12.7	1280	7.9	13.4	19.8
2/20/2003	10:48 AM	12.9	1430	8.0	12.2	23.6
2/27/2003	8:15 AM	14.1	1470	7.5	9.6	
3/6/2003	8:42 AM	14.2	1650	8.3	13.7	NA
3/13/2003	8:39 AM	17.6	1730	7.9	12.8	18.0
3/20/2003	8:15 AM	15.8	2060	7.6	9.9	14.0
3/27/2003	1:17 PM	17.5	1830	8.6	21.8	34.1
4/3/2003	1:50 PM	18.0	2150	7.1	9.0	24.9
4/10/2003	8:15 AM	18.3	1970	8.3	14.3	20.7
4/17/2003	8:30 AM	17.3	1870	8.2	14.4	23.4
4/24/2003	8:50 AM	18.0	1350	8.3	13.8	22.2
5/1/2003	8:42 AM	18.4	1460	8.1	12.4	NA
5/8/2003	8:07 AM	18.1	1550	8.0	14.2	33.4
5/15/2003	8:30 AM	20.9	1250	8.0	8.7	
5/22/2003	8:52 AM	22.9	1510	7.9	8.1	20.8
5/29/2003	8:50 AM	25.3	1800	7.7	6.7	
6/5/2003	8:31 AM	25.0	1940	7.7	7.0	42.1
6/12/2003	9:25 AM	23.4	2110	7.9	9.0	24.8
6/19/2003	8:33 AM	24.2	1620	7.9	3.7	26.8
6/26/2003	8:48 AM	24.6	1700	8.0	6.9	25.1
7/3/2003	8:25 AM	24.3	1600	8.3	11.7	
7/10/2003	8:53 AM	25.0	1610	8.3	10.1	
7/17/2003	8:48 AM	26.3	1490	8.8	11.4	
7/24/2003	8:36 AM	27.5	1520	8.1	6.3	31.7
7/31/2003	8:38 AM	26.8	1410	8.2	7.5	30.9
8/7/2003	8:37 AM	24.1	1170	8.4	11.1	12.9
8/14/2003	8:16 AM	23.6	1450	8.3	12.4	
8/21/2003	8:37 AM	25.0	1490	8.0	8.1	31.8
8/28/2003	8:38 AM	24.6	1620	8.2	NA	38.8
9/4/2003	8:35 AM	25.3	1680	7.9	7.8	35.8
9/11/2003	9:20 AM	22.7	1750	8.2	10.9	22.7
9/18/2003	8:31 AM	20.7	1790	8.3	10.8	20.2
9/25/2003	8:43 AM	22.4	1900	8.2	8.9	27.2

A2: 541MER522 – SJR @ Lander Avenue continued…

Date	Time	Temp (ºC)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
10/2/2003	9:01 AM	21.3	1890	8.1	9.5	24.2
10/9/2003	8:23 AM	20.7	1880	8.1	12.7	17.5
10/16/2003	10:46 AM	17.7	1950	8.2	14.3	19.3
10/23/2003	8:56 AM	19.3	2000	8.2	8.9	21.1
10/30/2003	8:37 AM	16.4	1970	8.2	9.4	16.0
11/6/2003	8:30 AM	13.5	1910	8.0	9.0	22.0
11/13/2003	8:11 AM	13.2	1510	8.0	9.1	20.6
11/20/2003	8:24 AM	13.1	928	7.8	8.9	14.6
11/26/2003	8:12 AM	8.7	916	7.9	11.1	20.8
12/4/2003	8:16 AM	11.6	961	8.3	9.3	
12/11/2003	8:16 AM	11.5	966	7.4	9.6	NA
12/18/2003	8:41 AM	8.5	664	7.9	11.5	NA
12/23/2003	8:26 AM	10.9	820	7.1	9.6	NA
12/30/2003	8:27 AM	9.3	605	7.6	10.9	NA
1/8/2004	8:00 AM	9.5	648	7.8	8.7	NA
1/15/2004	8:34 AM	10.3	1180	7.7	9.6	NA
1/22/2004	8:36 AM	9.9	1320	7.5	12.2	42.6
1/29/2004	8:44 AM	10.9	1360	7.5	10.3	37.0
2/5/2004	8:31 AM	10.5	1250	7.8	11.1	59.9
2/12/2004	8:22 AM	11.8	1230	7.4	11.8	NA
2/19/2004	8:28 AM	12.8	1430	7.4	10.3	NA
2/26/2004	8:26 AM	12.0	627	7.9	9.5	NA
3/4/2004	8:31 AM	12.2	491	7.9	10.0	103
3/11/2004	8:37 AM	17.5	823	7.9	11.4	NA
3/18/2004	7:56 AM	18.8	1300	8.6	13.3	
3/25/2004	8:27 AM	18.4	1510	8.0	11.2	19.4
4/1/2004	8:31 AM	16.9	1650	7.8	8.6	
4/8/2004	8:26 AM	18.2	1650	8.2	11.1	21.4
4/15/2004	8:40 AM	19.1	1860	8.2	13.3	26.1
4/22/2004	8:40 AM	17.7	1760	8.3	12.8	19.6
4/29/2004	9:41 AM	19.2	1660	8.3	NA	35.1
5/6/2004	8:42 AM	22.2	1730	8.0	15.4	27.0
5/13/2004	9:00 AM	20.8	1710	8.1	15.1	24.1
5/20/2004	8:39 AM	21.6	1830	7.6	6.2	23.7
5/27/2004	8:21 AM	23.2	1920	8.1	NA	NA
6/3/2004	9:15 AM	24.0	1750	8.3	14.2	25.6
6/10/2004	9:02 AM	22.2	1680	8.3	12.4	45.3
6/17/2004	9:03 AM	24.5	1770	8.3	12.6	23.3
6/24/2004	8:43 AM	24.2	1800	8.1	11.2	NA
7/1/2004	8:43 AM	24.3	1660	8.0	7.7	NA

A2: 541MER522 – SJR @ Lander Avenue continued…

Date	Time	Temp (ºC)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
7/8/2004	8:36 AM	25.4	1560	7.9	9.2	NA
7/15/2004	8:52 AM	24.8	1650	8.1	8.9	NA
7/22/2004	10:33 AM	26.6	1330	8.2	12.3	NA
7/29/2004	8:18 AM	26.1	1450	7.9	9.2	NA
8/5/2004	8:05 AM	23.5	1520	7.2	3.4	NA
8/12/2004	8:25 AM	25.8	1450	8.1	7.7	NA
8/19/2004	10:38 AM	25.9	1360	8.2	9.8	NA
8/26/2004	8:28 AM	24.1	1470	8.4	7.1	NA
9/2/2004	8:10 AM	24.1	1510	7.9	7.3	NA
9/9/2004	9:38 AM	24.1	1810	8.0	8.7	NA
9/16/2004	10:19 AM	22.6	1790	8.1	8.8	NA
9/23/2004	8:48 AM	19.7	1960	8.3	7.1	NA
9/30/2004	8:23 AM	19.7	2040	7.3	9.8	NA
10/7/2004	8:01 AM	20.5	2130	8.0	13.2	
10/14/2004	8:19 AM	18.7	2210	8.2	11.7	
10/21/2004	8:55 AM	15.8	2170	NA	9.7	
10/28/2004	8:15 AM	14.1	927	7.6	6.9	
11/4/2004	8:51 AM	13.3	879	7.7	5.4	
11/11/2004	8:06 AM	14.4	792	6.5	8.0	
11/18/2004	8:15 AM	13.6	415	7.6	5.6	
11/23/2004	10:57 AM	10.0	656	7.5	8.9	
12/2/2004	8:33 AM	8.0	1180	7.9	13.0	
12/9/2004	8:15 AM	10.0	953	8.2	10.5	
12/16/2004	8:07 AM	10.8	538	8.2	9.2	
12/22/2004	11:07 AM	8.7	720	7.8	10.9	
12/29/2004	9:33 AM	9.2	886	7.9	9.9	
1/6/2005	7:44 AM	9.6	162	8.5	10.2	
1/13/2005	8:30 AM	9.2	110	8.6	11.4	
1/20/2005	8:27 AM	8.7	244	7.9	9.8	
1/27/2005	8:08 AM	11.3	485	8.2	9.0	
2/3/2005	8:29 AM	10.5	392	8.0	9.7	
2/10/2005	7:59 AM	12.5	529	8.1	9.7	
2/17/2005	8:38 AM	14.2	293	7.9	9.7	
2/24/2005	8:08 AM	15.5	340	8.3	9.8	
3/3/2005	8:16 AM	15.5	425	8.0	9.0	
3/10/2005	8:59 AM	18.8	590	7.5	8.9	
3/17/2005	8:10 AM	16.3	355	8.5	14.8	
3/24/2005	8:12 AM	14.1	134	7.8	7.8	
3/31/2005	8:17 AM	15.1	204	8.2	9.6	

A2: 541MER522 – SJR @ Lander Avenue continued…

Date	Time	Temp (ºC)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
4/7/2005	8:23 AM	18.6	447	8.0	7.6	
4/14/2005	8:19 AM	16.0	443	8.2	9.8	
4/21/2005	8:14 AM	17.7	1180	8.3	11.7	
4/28/2005	8:11 AM	18.9	1080	8.3	7.6	
5/5/2005	8:37 AM	20.9	807	7.4	10.6	
5/12/2005	8:14 AM	19.3	215	7.9	8.3	
5/19/2005	8:37 AM	20.8	95	7.6	6.3	
5/26/2005	8:31 AM	20.6	76	7.0	6.3	
6/2/2005	8:27 AM	19.4	64	8.0	7.4	
6/9/2005	7:58 AM	18.9	59	8.0	8.1	
6/16/2005	8:14 AM	23.1	326	7.8	6.9	
6/23/2005	8:58 AM	22.8	436	NA	7.5	
6/30/2005	8:16 AM	25.4	183	8.2	6.8	
7/7/2005	8:25 AM	25.6	833	7.9	NA	
7/13/2005	11:55 AM	29.8	719	7.9	11.5	
7/21/2005	8:10 AM	26.7	1120	8.2	10.1	
7/28/2005	8:26 AM	26.3	1240	8.0	8.0	
8/4/2005	8:24 AM	26.0	814	7.7	5.8	
8/11/2005	8:35 AM	25.5	1090	NA	7.0	
8/18/2005	8:50 AM	24.9	631	7.3	5.9	
8/25/2005	8:25 AM	24.3	762	7.8	6.7	
9/1/2005	8:24 AM	22.5	996	7.6	8.6	
9/8/2005	8:32 AM	22.6	897	7.9	6.8	
9/15/2005	8:16 AM	20.0	1060	7.9	9.6	
9/21/2005	8:17 AM	20.8	1100	8.1	8.7	
9/22/2005	8:52 AM	21.8	1150	7.8	10.3	
9/29/2005	8:16 AM	20.6	659	7.9	6.6	
Count		265	265	261	217	60
Min		7.4	59	6.5	3.4	12.9
Max		30.0	2260	9.0	23.3	114
Mean		18.1	1270	7.9	10.2	29.9
Geo Mean		17.0	1080	7.9	9.8	27.1
Median		18.4	1360	7.9	9.7	24.5
Quartile 1		12.9	867	7.7	8.5	20.8
Quartile 3		23.6	1720	8.2	11.6	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

A2: 541MER522 – SJR @ Lander Avenue continued…

Date	TSS (mg/L)	TOC (mg/L)	Total Coli MPN	*E. coli MPN*
10/5/2000	27			
10/12/2000	24	7.5		
10/19/2000		3.1		
10/26/2000	41	2.7		
11/2/2000	57	4.6		
11/9/2000	28	3.4		
11/16/2000	18	3.9		
11/21/2000	27	NA		
11/30/2000	28	1.8		
12/7/2000	25	1.7		
12/12/2000	22	2.9		
12/21/2000	NA	4.4		
12/28/2000	NA	4.3		
1/4/2001	20	3.8		
1/11/2001	34	4.3		
1/18/2001	32	6.0		
1/25/2001	29	3.7		
2/1/2001	38	6.8		
2/8/2001	30	5.6		
2/10/2001	25	5.3		
2/11/2001	23	4.9		
2/15/2001	42	3.3		
2/22/2001	33	5.7		
3/1/2001	37	9.3		
3/8/2001	73	11		
3/15/2001	46	9.2		
3/22/2001	25	9.3		
3/29/2001	NA	<1		
4/5/2001	30	NA		
4/12/2001	38	6.7		
4/19/2001	39	10		
4/26/2001		6.8		
5/3/2001	36	8.4		
5/10/2001	24	6.4		
5/17/2001		9.3		
5/24/2001	31	7.9		
5/31/2001	41	12		
6/7/2001	50	20		
6/14/2001	35	15		
6/21/2001	NA	18		
6/28/2001	37	12		
7/5/2001		13		
7/11/2001		16		

A2: 541MER522 – SJR @ Lander Avenue continued…

Date	TSS (mg/L)	TOC (mg/L)	Total Coli MPN	*E. coli MPN*
7/19/2001		13		
7/26/2001		12		
8/2/2001		13		
8/9/2001		12		
8/16/2001	33	14		
8/23/2001	37	14		
8/30/2001	36	17		
9/6/2001	42	15		
9/13/2001	32	14		
9/20/2001	NA			
9/27/2001	24			
10/4/2001	NA	19		
10/11/2001	22	23		
10/18/2001	23	27		
11/1/2001	26			
11/8/2001	30			
11/15/2001	29	5.5		
11/20/2001	22	NA		
11/29/2001	20	<1		
12/6/2001	43	7.2		
12/13/2001	22	3.0		
12/20/2001	30	6.7		
12/27/2001	20			
1/3/2002	54			
1/10/2002	42			
1/17/2002	37			
1/24/2002	32			
1/31/2002	24	3.8		
2/7/2002	27	NA		
2/14/2002	25	NA		
2/21/2002	30			
2/28/2002	NA			
3/7/2002	20	5.8		
3/14/2002	25	7.4		
3/21/2002	16	5.9		
3/28/2002	19	NA		
4/4/2002	27	NA		
4/11/2002	91			
4/18/2002	30	8.3		
4/24/2002	22	14		

A2: 541MER522 – SJR @ Lander Avenue continued…

Date	TSS (mg/L)	TOC (mg/L)	Total Coli MPN	*E. coli MPN*
5/2/2002	22	6.1		
5/9/2002	52	NA		
5/16/2002	31	NA		
5/23/2002	41	NA		
5/30/2002	19	6.0		
6/6/2002	29	9.3		
6/13/2002	NA	NA		
6/20/2002	NA	6.6		
6/27/2002	21	16		
7/30/2002			>2419.6	
8/15/2002		7.6		
8/22/2002		7.7		
8/29/2002	45			
9/5/2002		5.5		
9/12/2002	30	NA		
9/19/2002	29	NA		
9/26/2002	32	9.5		
10/3/2002	34	7.7		
10/10/2002	32	5.7		
10/17/2002	18	5.9	>2419.6	25
10/24/2002	28	5.0		
10/31/2002	26	NA		
11/7/2002	26	NA		
11/14/2002	29	7.4		
11/21/2002	17	5.0		
11/26/2002	24	5.5		
12/5/2002	21	4.3		
12/12/2002	15	3.4		
12/19/2002	68	9.8		
12/24/2002	37			
1/2/2003	34			
1/9/2003	28			
1/16/2003	49		>2419.6	68
1/23/2003	31			
1/30/2003	32			
2/6/2003	18			
2/13/2003	23			
2/20/2003	15			
2/27/2003	20			
3/6/2003	25			

A2: 541MER522 – SJR @ Lander Avenue continued…

Date	TSS (mg/L)	TOC (mg/L)	Total Coli MPN	*E. coli* *MPN*
3/13/2003	NA	8.3		
3/20/2003	NA	5.7		
3/27/2003	54	4.8		
4/3/2003	NA			
4/10/2003	NA	5.0		
4/17/2003	32	8.1		
4/24/2003	46	8.6	>2419.6	57
5/1/2003	31	9.6		
5/8/2003	NA	9.2		
5/15/2003	37	8.7		
5/22/2003	20	6.1		
5/29/2003	24	8.9		
6/5/2003	31	14		
6/12/2003	30	9.4		
6/19/2003	30	10		
6/26/2003	29	8.8		
7/31/2003			>2419.6	24
8/28/2003			>2419.6	22
9/25/2003			>2419.6	11
10/30/2003			>2419.6	7
11/20/2003			>2419.6	28
1/29/2004			1553	17
2/26/2004			>2419.6	488
3/11/2004		12		
3/18/2004		9.4		
3/25/2004			1986	15
4/1/2004		11		
4/8/2004		14		
4/15/2004		12		
4/22/2004		12		
4/29/2004		16	>2419.6	261
5/6/2004		14		
5/13/2004		12		
5/20/2004		12		
5/27/2004		12	>2419.6	112
6/3/2004		16		
6/10/2004		16		
6/17/2004		13	>2419.6	61

A2: 541MER522 – SJR @ Lander Avenue continued…

Date	TSS (mg/L)	TOC (mg/L)	Total Coli MPN	*E. coli MPN*
6/24/2004			>2419.6	105
7/1/2004		16		
7/8/2004		13	>2419.6	387
7/15/2004		12		
7/22/2004		13		
7/29/2004		12	>2419.6	46
8/5/2004		9.5		
8/12/2004		12	>2419.6	64
8/19/2004		11		
8/26/2004			>2419.6	16
9/16/2004			>2419.6	22
9/30/2004			>2419.6	19
10/14/2004			>2419.6	15
10/28/2004	17	8.2	>2419.6	44
11/4/2004	19	9.8	1011	96
11/11/2004	18	8.8		
11/18/2004	17	12	>2419.6	84
11/23/2004		8.9		
12/2/2004	23	9.5		
12/9/2004	18	7.7	>2419.6	41
12/16/2004	21	6.9		
12/22/2004	19	7.5	1733	33
12/29/2004	26	6.7		
1/6/2005	33	13	>2419.6	649
1/13/2005	42	12		
1/20/2005	27		>2419.6	50
1/27/2005	42	10		
2/3/2005	26	12	>2419.6	75
2/10/2005	36	8.7		
2/17/2005	57	15	>2419.6	>2419.6
2/24/2005	34	8.2		
3/3/2005	33	11		
3/10/2005	22	NA	816	40
3/17/2005	31	9.5		
3/24/2005	130	11	>2419.6	>2419.6
3/31/2005	32	8.0		
4/7/2005	27	9.2	>2419.6	194
4/14/2005	32	NA		
4/21/2005	40	7.8	>2419.6	74
4/28/2005	48	NA		
5/5/2005	NA	6.6	>2419.6	77

A2: 541MER522 – SJR @ Lander Avenue continued…

Date	TSS (mg/L)	TOC (mg/L)	Total Coli MPN	*E. coli MPN*
5/12/2005	47	8.8		
5/19/2005	62	5.2	>2419.6	488
5/26/2005	33	3.7		
6/2/2005	36	2.0		
6/9/2005	31	NA	>2419.6	116
6/16/2005	37	5.1		
6/23/2005	40	6.3	>2419.6	161
6/30/2005	35	3.2		
7/7/2005	60	4.5	>2419.6	26
7/13/2005	19	4.7		
7/21/2005	30	6.2	>2419.6	10
7/28/2005	28	6.3		
8/4/2005	43	5.7	>2419.6	49
8/11/2005	NA	4.7		
8/18/2005	36	5.1	>2419.6	81
8/25/2005	37	4.7		
9/1/2005	26	4.4	>2419.6	9
9/8/2005	34	6.6	>2419.6	22
9/15/2005	35	5.5		
9/21/2005			>2419.6	16
9/22/2005	37	NA		
9/29/2005	32	5.4		
Count	158	162	47	46
Min	15	0.5	816	7
Max	130	27	2420	2420
Mean	32	8.7	NA	NA
Geo Mean	30	8	2273	59
Median	30	8.2	2420	50
Quartile 1	24	5.5	2420	22
Quartile 3	37	12	2420	103

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

A2: 541MER522 – SJR @ Lander Avenue 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)
10/12/2000								6.5	10.3
10/26/2000	<2		<2		0.3	<1	6.5	6.7	10.9
11/16/2000								2.7	3.9
11/30/2000	<2		<2		0.2	<1	7.1	4.0	6.9
12/12/2000								3.5	5.7
12/28/2000	4.3		<2		0.3	<1	8.8	5.9	8.4
1/11/2001								5.3	11.2
1/25/2001	NA		NA		0.4	<1	9.6	3.5	7.1
2/8/2001	7.2		<2		0.4	<1	10	3.1	5.2
2/10/2001	7.3		<2		0.4	<1	10	2.2	5.0
2/11/2001	7.5		<2		0.4	<1	10		
2/22/2001	3.9		<2		NA	<1	7.6	2.7	4.7
3/15/2001	9.9		<2		0.4	<1	7.1	3.4	5.8
3/29/2001	16		NA		0.3	<1	8.8	8.1	16.1
4/19/2001	2.2		<2		0.2	<1	7.7	8.7	14.9
4/26/2001	8.4		<2		0.3	<1	6.9	7.0	11.9
5/17/2001	<2		2.3		0.2	<1	8.4	8.8	15.7
5/31/2001	<2		3.9		0.4	<1	9	8.2	16.6
6/7/2001	<2		<1.0		0.5	<1	7.1	8.2	15.5
6/14/2001	<2		2.5			<1	8.6	7.6	15.9
6/21/2001	<2		3.5		0.3	<1	8.8	8.3	16.7
6/28/2001	<2		<2		0.4	<1	8.6	8.0	16.5
8/16/2001	5.6		3.2		0.3	<1	7.1		
8/30/2001	<2		<2		0.2	<1	8.1		
9/27/2001	<2		<2		0.2	<1	7.8		
10/25/2001	<2		<2		0.2	<1	6.5	4.6	7.8
11/29/2001	NA		NA		NA	<0.03	NA	3.0	4.9
12/13/2001								1.8	3.9
12/27/2001								2.4	5.4

A2: 541MER522 – SJR @ Lander Avenue 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)
1/17/2002								1.6	3.1
1/31/2002								2.4	4.4
2/14/2002								3.0	4.9
2/28/2002								5.1	7.3
3/14/2002								9.2	13.9
3/28/2002	NA		1.8		0.2	NA	5.4	6.7	9.6
4/24/2002								8.8	13.4
5/16/2002								8.6	14.4
5/30/2002								7.8	11.9
6/13/2002	<2.0		NA		0.3	<1.0	8.8	7.0	10.9
6/20/2002								6.6	11.5
8/29/2002								8.7	17.2
9/26/2002								8.3	15.6
10/31/2002								7.2	11.0
11/21/2002								3.1	6.4
12/19/2002								5.6	8.5
1/30/2003								2.0	3.7
Count	22	NA	21	NA	22	24	24	42	42
Min	1.0	NA	0.5	NA	0.2	0.0	5.4	1.6	3.1
Max	16.0	NA	3.9	NA	0.5	0.5	10.0	9.2	17.2
Mean	3.8	NA	1.5	NA	0.3	0.5	8.1	5.6	9.9
Geo Mean	2.3	NA	1.3	NA	0.3	0.4	8.0	5.0	8.8
Median	1.0	NA	1.0	NA	0.3	0.5	8.3	6.2	10.0
Quartile 1	1.0	NA	1.0	NA	0.2	0.5	7.1	3.1	5.5
Quartile 3	6.8	NA	1.8	NA	0.4	0.5	8.8	8.1	14.3

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

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

A2: 541MER522 – SJR @ Lander Avenue continued…

Date	Hardness (mg/L)	Total Arsenic (ug/L)	Total Cadmium (ug/L)	Total Chromium (ug/L)	Total Copper (ug/L)	Total Lead (ug/L)	Total Nickel (ug/L)	Total Zinc (ug/L)	Total Mercury (ug/L)
10/26/2000				1.2	2.4	<5	<5		
11/30/2000	240			<1	1.5	<5	<5	3.5	
12/28/2000	230			<1	1.9	<5	<5	<2	
1/25/2001	240			1.6	3.2	<5	<5	4.6	
2/10/2001	240			<1	2.6	<5	<5	5.7	
2/11/2001	240			<1	2.4	<5	<5	3.5	
2/22/2001	220			1.2	3.4	<5	<5	5.4	
3/29/2001	430			<1	2.4	<5	<5	3.6	
4/26/2001	190			<1	3.2	<5	<5	3.7	
5/31/2001	290			1.4	2.1	<5	<5	3.6	
6/7/2001	320	13	<1	1.6	3.1	<5	<5	<2	<0.2
6/14/2001	300	10	<1	<1	2.1	<5	<5	3.9	<0.2
6/21/2001	NA	8.2	<1	<1	1.8	<5	<5	3	<0.2
6/28/2001	270	12	<1	<1	1.5	<5	<5	2.5	<0.2
7/26/2001		NA	NA	<1	1.6	<5	<5	NA	NA
8/30/2001	180	8.6	<1	<1	1.2	<5	<5	<2	
9/27/2001	230	11	<0.1	<1	1.5	<5	<5	2.2	<0.2
10/25/2001	180	6.9	<0.1	<1	1.2	<5	<5	<2	NA
11/29/2001	200	4.9	<0.1	<1	<1	<5	<5	3.5	<0.2
12/27/2001		4.7	<0.1	2.4	3.5	<5	<5	6.1	<0.2
2/28/2002		<4.0	<0.1	<1.0	2.8	<5.0	<5.0	6.1	<0.2
3/28/2002		5	<0.1	3	<1.0	<5.0	NA	4.3	<0.2
4/24/2002		6.8	<0.1	<1.0	<1.0	<5.0	<5.0	<2.0	<0.2
5/30/2002		12	<0.1	<1.0	1.3	<5.0	<5.0	<2.0	<0.2
6/20/2002	300	11	<0.1	<1.0	<1.0	<5.0	<5.0	<2.0	<0.2
9/26/2002	230	8.6	<0.1	<1.0	1.4	<5.0	<5.0	<2.0	<0.2
10/31/2002	250	7.2	<0.1	<1.0	<1.0	<5.0	<5.0	<2.0	<0.2
11/21/2002	160	6.2	<0.1	<1.0	1.4	<5.0	<5.0	2.1	<0.2

A2: 541MER522 – SJR @ Lander Avenue 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)
3/27/2003	370	6.7	<0.1	1.1	2.4	<5.0	<5.0	3.1	<0.2
4/24/2003	260	7	<0.1	NA	NA	NA	<5.0	<2.0	<0.2
5/29/2003	340	12	<0.1	<1.0	2.2	<5.0	<5.0	<2.0	<0.2
6/26/2003	290	12	<0.1	<1.0	<1.0	<5.0	<5.0	<2.0	<0.2
Count	24	21	21	31	31	31	31	30	19
Min	160	2.0	0.1	0.5	0.5	2.5	2.5	1.0	0.1
Max	430	13.0	0.5	3.0	3.5	2.5	2.5	6.1	0.1
Mean	258	8.4	0.2	0.8	1.8	2.5	2.5	2.7	0.1
Geo Mean	251	7.7	0.1	0.7	1.6	2.5	2.5	2.2	0.1
Median	240	8.2	0.1	0.5	1.8	2.5	2.5	2.8	0.1
Quartile 1	228	6.7	0.1	0.5	1.3	2.5	2.5	1.0	0.1
Quartile 3	293	11.0	0.1	0.8	2.4	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

A2: 541MER522 – SJR @ Lander Avenue continued…

Date	Hardness (mg/L)	Dissolved Arsenic (ug/L)	Dissolved Cadmium (ug/L)	Dissolved Chromium (ug/L)	Dissolved Copper (ug/L)	Dissolved Lead (ug/L)	Dissolved Nickel (ug/L)	Dissolved Zinc (ug/L)	Dissolved Mercury (ug/L)
10/26/2000				<1	<1	<5	<5	<2	
11/30/2000	240			<1	<1	<5	<5	<2	
12/28/2000	230			<1	<1	<5	<5	<2	
1/25/2001	240			<1	<1	<5	<5	<2	
2/10/2001	240			<1	1.5	<5	<5	2.7	
2/11/2001	240			<1	1.4	<5	<5	<2	
2/22/2001	220			<1	<1	<5	<5	<2	
3/29/2001	430			<1	1.6	<5	<5	<2	
4/26/2001	190			<1	1.4	<5	<5	<2	
5/31/2001	290			<1	<1	<5	<5	<2	
6/7/2001	320	11	<1	<1	2.3	<5	<5	<2	<0.2
6/14/2001	300	8.8	<1	<1	<1	<5	<5	<2	<0.2
6/21/2001	NA	6.5	<1	<1	<1	<5	<5	<2	<0.2
6/28/2001	270	8.7	<1	<1	<1	<5	<5	<2	<0.2
7/26/2001		NA	NA	NA	NA	NA	NA	NA	NA
8/30/2001	180	8	<1	<1	1.2	<5	<5	<2	
9/27/2001	230	9.1	<0.1	<1	1.1	<5	<5	<2	<0.2
10/25/2001	180	4.7	<0.1	<1	<1	<5	<5	<2	NA
11/29/2001	200	<4	<0.1	<1	<1	<5	<5	7.8	<0.2
12/27/2001		<4	<0.1	<1	1.6	<5	<5	2.3	<0.2
2/28/2002		<4.0	<0.1	<1.0	3	<5.0	<5.0	5.3	<0.2
3/28/2002		<4.0	<0.1	<1.0	<1.0	<5.0	<5.0	2.7	<0.2
4/24/2002		8	<0.1	<1.0	1.1	<5.0	<5.0	<2.0	<0.2
5/30/2002		11	<0.1	<1.0	1.1	<5.0	<5.0	<2.0	<0.2
6/20/2002	300	6.8	<0.1	<1.0	<1.0	<5.0	<5.0	<2.0	<0.2
9/26/2002	230	6.1	<0.1	<1.0	<1.0	<5.0	<5.0	<2.0	<0.2
10/31/2002	250	6.8	<0.1	<1.0	<1.0	<5.0	<5.0	<2.0	<0.2
11/21/2002	160	4.8	<0.1	<1.0	1.2	<5.0	<5.0	<2.0	<0.2

A2: 541MER522 – SJR @ Lander Avenue 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	20	17	17	27	27	27	27	27	15
Min	160.0	2.0	0.1	0.5	0.5	2.5	2.5	1.0	0.1
Max	430.0	11.0	0.5	0.5	3.0	2.5	2.5	7.8	0.1
Mean	247.0	6.4	0.2	0.5	1.0	2.5	2.5	1.6	0.1
Geo Mean	240.6	5.5	0.1	0.5	0.8	2.5	2.5	1.3	0.1
Median	240.0	6.8	0.1	0.5	0.5	2.5	2.5	1.0	0.1
Quartile 1	215.0	4.7	0.1	0.5	0.5	2.5	2.5	1.0	0.1
Quartile 3	275.0	8.7	0.5	0.5	1.3	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

A2: 541MER522 – SJR @ Lander Avenue continued…

Date	Chloride (mg/L)	Sulfate (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	TDS (mg/L)	Carbonate (mg/L)	Bicarbonate (mg/L)	Total Alkalinity (mg/L)	Sodium (mg/L)
11/30/2000	250	91	59	23	810	<1	270	220	210
12/28/2000	220	86	56	22	740	<1	260	210	180
1/25/2001	220	85	57	23	720	<1	240	190	170
2/10/2001	190	78	57	23	660	<1	250	200	150
2/11/2001	200	78	58	23	530	<1	250	210	160
2/22/2001	170	79	52	22	620	<1	220	180	130
3/29/2001	340	210	96	46	1200	13	230	210	240
4/26/2001	120	77	43	19	520	<1	130	130	95
5/31/2001	370	150	62	33	1000	<1	210	210	270
6/7/2001	390	170	67	36	1100	<1	290	230	320
6/14/2001	320	160	60	36	950	<1	220	180	240
6/21/2001	280	150	52	31	930	<1	220	180	230
6/28/2001	340	150	54	32	1000	<1.0	250	210	280
8/30/2001	220	100	38	22	730	<1	200	170	190
9/27/2001	310	98	57	22	950	<1	300	260	270
10/25/2001	180	62	44	16	NA	<1	250	200	160
11/29/2001	240	88	50	18	790	<1	230	190	200
3/27/2003			86	38					
4/24/2003	240	120	60	28					
5/29/2003	170	94	74	37					

A2: 541MER522 – SJR @ Lander Avenue 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)
6/26/2003	330	140	63	32					
Count	20	20	21	21	16	17	17	17	17
Min	120	62	38	16	520	0.5	130	130	95
Max	390	210	96	46	1200	13	300	260	320
Mean	260	110	59	28	830	1.2	240	200	200
Geo Mean	240	100	58	27	810	0.6	230	200	200
Median	240	96	57	23	800	0.5	240	200	200
Quartile 1	200	84	52	22	710	0.5	220	180	160
Quartile 3	320	150	62	33	970	0.5	250	210	240

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

A2: 541MER522 – SJR @ Lander Avenue continued…

	96h Acute Fathead Minnow (% Survival)		48h Acute Ceriodaphnia Dubia (% Survival)		Algae Cell Growth		
Date	Result	Control	Result	Control	Result (million/ml)	Control (million/ml)	MDD(%)
10/26/2000	100	100	NA	NA			
1/25/2001	90	100	100	100			
2/22/2001	100	100	100	100			
3/29/2001	95	100	100	100			
4/26/2001	95	100	90	90			
5/31/2001	100	90	100	100			
6/28/2001	90	100	100	100			
10/25/2001	100	100	100	100			
11/29/2001	NA	NA	100	100			
12/27/2001	95	100	100	100			
1/31/2002	100	100	100	100			
2/28/2002	100	100	100	100			
4/24/2002	100	100	100	90			
5/30/2002	100	100	100	100			
6/20/2002	100	100	100	100			
8/29/2002	95	100	100	100			
9/26/2002	100	95	100	100			
10/31/2002	100	100	100	100			
11/21/2002	95	100	100	100			
12/19/2002	100	100	100	100	2.71*	2.93	N/A
3/27/2003	100	100	100	100	3.17**	1.73	N/A
5/29/2003	100	100	100	100	6.53**	2.03	7.5
Count	21	21	21	21	3	3	1

* 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

A2: 541MER522 – SJR @ Lander Avenue continued…

	Chronic Fathead Minnow - 7day					Chronic Ceriodaphnia Dubia - 6 day				
Date	Result (% Survival)	Control (% Survival)	Avg Dry Weight Result (mg)	Avg Dry Weight Control (mg)	Growth MDD(%)	Result (% Survival)	Control (% Survival)	Avg # Young / Adult Result	Avg # Young / Adult Control	Repro MDD(%)
3/11/2004	86.7	97.5	0.55	0.60	46	100.0	100.0	18.3	20	28
3/25/2004	100.0	97.5	0.64	0.68	9	100.0	100.0	21.9	20.9	23
4/15/2004	93.3	97.5	0.56	0.59	10	100.0	100.0	21.6	21.8	14
4/29/2004	90.0	100.0	0.50*	0.62	12	100.0	100.0	25.7	20	14
5/13/2004	87.1*	100.0	0.57	0.68	16	100.0	100.0	22.9	17.3	25
05/27/2004^	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6/10/2004	70.0*	97.6	0.46	0.58	62	100.0	100.0	25.9	25.2	13
6/24/2004	100.0	100.0	0.6	0.67	23	100.0	100.0	38	21.1	18
11/18/2004	90.0	100.0	0.45	0.46	19					
12/22/2004	85.0	95.2	0.51	0.61	19					
1/20/2005	87.5	97.4	0.74*	0.92	15					
2/17/2005	72.5*	97.5	0.22*	0.38	23					
3/24/2005	82.1*	97.5	0.43	0.41	20					
4/21/2005	N/A	N/A	N/A	N/A	N/A					
5/19/2005	80.0*	100.0	0.51*	0.62	16					
6/23/2005	N/A	N/A	N/A	N/A	N/A					
9/22/2005	94.7	97.5	0.41	0.45	10					
Count	14	14	14	14	14	7	7	7	7	7

* 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

A3: 541MER538 – SJR @ Fremont Ford

Station Code: 541MER538

Location: Latitude 37.30944, Longitude -120.92917

Date	Time	Temp (ºC)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
10/5/2000	9:40 AM	18.8	1380	6.3		
10/12/2000	10:30 AM	15.7	897	7.3		
10/19/2000	8:15 AM	16.2	1160	7.2		
10/26/2000	11:30 AM	13.7	1390	7.5		
11/2/2000	9:20 AM	14.2	654	6.3		
11/9/2000	8:50 AM	12.1	1240	7.8		
11/16/2000	9:55 AM	10.1	1570	7.4		
11/21/2000	7:20 AM	8.8	1700	7.2		
11/30/2000	9:45 AM	9.4	1750	7.4		
12/7/2000	8:40 AM	9.3	1560	7.1		
12/12/2000	8:30 AM	10.6	1530	7.4		
12/21/2000	10:40 AM	8.9	1850	7.7		
12/28/2000	11:10 AM	7.6	1910	7.2		
1/4/2001	8:35 AM	7.5	2030	6.9		
1/11/2001	10:30 AM	8.7	1300	7.6		
1/18/2001	8:35 AM	6.2	1680	8.0		
1/25/2001	12:05 PM	9.9	1850	7.3		
2/1/2001	10:07 AM	8.1	1610	7.6		
2/8/2001	9:20 AM	8.9	1720	7.6		
2/15/2001	10:30 AM	9.7	1210	7.3		
2/22/2001	12:40 PM	14.6	1620	7.8		
3/1/2001	10:50 AM	12.7	1160	7.0		
3/8/2001	9:00 AM	13.9	551	7.6		
3/15/2001	10:35 AM	15.8	1370	7.5		
3/22/2001	11:00 AM	19.3	1830	7.7		
3/29/2001	11:30 AM	19.1	1680	8.1		
4/5/2001	11:30 AM	15.7	1830	8.0		
4/12/2001	9:15 AM	13.2	1510	6.9		
4/19/2001	11:20 AM	16.8	2090	7.8		
4/26/2001	9:48 AM	21.7	1230	7.4		
5/3/2001	9:00 AM	17.5	2100	7.0		
5/10/2001	10:36 AM	23.7	1440	7.6		
5/17/2001	11:13 AM	22.4	1170	7.0		
5/24/2001	12:30 PM	26.8	1690	6.8		
5/31/2001	12:05 PM	27.5	1670	7.6		
6/7/2001	11:20 AM	23.1	1390	7.9	7.0	
6/14/2001	NA	22.2	1480	7.8	9.0	
6/21/2001	11:13 AM	26.8	1220	7.8	8.4	
6/28/2001	2:58 PM	26.0	1020	8.1	6.9	

A3: 541MER538 – SJR @ Fremont Ford continued…

Date	Time	Temp (ºC)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
7/5/2001	8:18 AM	25.3	1550	7.6	6.1	
7/11/2001	10:26 AM	24.6	1180	7.7	7.9	
7/19/2001	10:34 AM	23.7	1180	7.8	9.3	
7/26/2001	10:08 AM	24.7	1230	7.7	7.7	
8/2/2001	8:44 AM	26.6	1050	7.6	6.3	
8/9/2001	10:38 AM	26.4	1320	7.7	7.3	
8/16/2001	9:32 AM	23.3	1170	7.7	6.8	
8/23/2001	10:36 AM	22.2	1100	7.7	8.5	
8/30/2001	8:46 AM	22.2	1580	7.4	6.4	
9/6/2001	10:21 AM	21.8	1890	7.6	8.0	
9/13/2001	11:48 AM	22.2	2020	7.8	7.5	
9/20/2001	11:08 AM	22.1	2130	7.8	7.5	
9/27/2001	12:22 PM	21.8	2180	7.7	8.4	
10/4/2001	8:00 AM	20.7	2190	7.5	7.2	
10/11/2001	8:39 AM	16.8	1360	7.8	7.8	
10/18/2001	8:30 AM	18.1	1250	7.7	7.4	
10/25/2001	8:35 AM	14.2	1800	7.7	8.5	
11/1/2001	8:50 AM	15.7	1760	7.8	8.6	
11/8/2001	8:23 AM	13.7	1440	7.7	8.8	
11/15/2001	8:50 AM	15.4	1240	8.1	8.0	
11/20/2001	10:32 AM	13.6	1640	7.7	8.6	
11/29/2001	9:25 AM	9.6	1790	7.6	10.2	
12/6/2001	11:00 AM	10.2	1320	7.4	10.6	
12/13/2001	8:38 AM	8.6	2110	7.7	10.2	
12/20/2001	9:47 AM	9.7	2690	7.8	10.4	
12/27/2001	1:00 PM	10.6	2430	7.7	7.5	
1/3/2002	8:35 AM	12.7	583	7.6	8.1	
1/10/2002	11:04 AM	11.7	1000	8.0	9.8	
1/17/2002	10:42 AM	8.0	1540	7.6	10.9	
1/24/2002	11:49 AM	7.7	1890	7.3	11.4	
1/31/2002	10:30 AM	7.0	1760	7.7	12.5	
2/7/2002	10:18 AM	10.5	1760	7.4	11.3	
2/14/2002	10:47 AM	11.5	1740	7.8	9.8	
2/21/2002	11:47 AM	14.3	1390	7.3	9.4	
2/28/2002	2:29 PM	16.8	1650	7.8	11.4	
3/7/2002	9:48 AM	14.8	1650	7.6	9.0	
3/14/2002	11:10 AM	13.3	1850	7.4		
3/21/2002	11:01 AM	14.9	1760	7.3	9.1	
3/28/2002	2:00 PM	19.5	2730	7.8	15.5	
4/4/2002	10:13 AM	18.9	1930	7.9	8.3	
4/11/2002	9:32 AM	18.6	NA	7.2	NA	

A3: 541MER538 – SJR @ Fremont Ford continued…

Date	Time	Temp (ºC)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
4/18/2002	9:30 AM	15.4	1990	7.8	8.9	
4/25/2002	10:04 AM	19.5	2080	7.8	8.0	
5/2/2002	9:37 AM	17.2	2000	7.3	10.4	
5/9/2002	INA	INA	INA	INA	INA	
5/16/2002	8:42 AM	20.6	2330	7.8	6.9	74.1
5/23/2002	6:30 AM	16.9	1240	7.6	NA	
5/30/2002	11:57 AM	26.3	1950	7.8	7.6	
6/6/2002	9:44 AM	24.7	1420	7.9	NA	
6/13/2002	10:34 AM	23.3	1340	7.2	NA	
6/20/2002	11:55 AM	25.0	1460	7.9	8.2	93.9
6/27/2002	8:57 AM	24.2	1110	7.7	6.0	
7/3/2002	9:25 AM	25.1	1160	7.9	NA	
7/11/2002	11:25 AM	27.2	1300	7.9	NA	
7/18/2002	8:30 AM	23.5	1260	7.8	6.4	109
7/25/2002	9:46 AM	23.9	1100	7.8	6.4	
8/1/2002	10:51 AM	24.8	980	7.8	6.8	
8/8/2002	9:23 AM	21.9	1160	7.8	6.9	
8/15/2002	10:15 AM	24.4	1160	7.9	7.3	
8/22/2002	10:05 AM	21.9	1200	7.8	8.0	
8/29/2002	12:25 PM	24.3	1460	8.0	9.3	75.0
9/5/2002	9:50 AM	21.2	1250	7.8	7.5	
9/12/2002	10:10 AM	21.8	1490	7.5	8.4	
9/19/2002	8:18 AM	20.7	1820	7.8	6.5	NA
9/26/2002	11:53 AM	21.9	1490	8.0	8.8	
10/3/2002	8:39 AM	13.6	1550	7.8	9.9	
10/10/2002	10:35 AM	19.6	1960	7.8	7.7	
10/17/2002	12:25 PM	17.1	1470	7.8	9.0	96.8
10/24/2002	11:31 AM	15.2	1200	7.3	8.9	
10/31/2002	9:08 AM	13.0	1450	7.4	8.8	96.6
11/7/2002	8:38 AM	13.3	1400	7.6	8.9	
11/14/2002	10:51 AM	14.2	1210	7.5	8.3	
11/21/2002	11:42 AM	12.8	1500	7.6	9.4	62.9
11/26/2002	10:55 AM	12.3	NA	7.7	9.3	
12/5/2002	8:34 AM	10.3	1650	7.7	10.2	60.0
12/12/2002	8:40 AM	11.2	1850	7.6	10.2	
12/19/2002	12:28 PM	9.8	713	7.5	7.7	120
12/24/2002	11:04 AM	8.2	1000	6.9	12.5	
1/2/2003	10:51 AM	9.8	1210	7.7	14.0	
1/9/2003	9:38 AM	9.9	1780	7.9	11.2	
1/16/2003	12:49 PM	11.5	1330	7.8	10.8	57.1
1/23/2003	9:40 AM	11.0	1810	7.2	14.2	

A3: 541MER538 – SJR @ Fremont Ford continued…

Date	Time	Temp (ºC)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
1/30/2003	8:41 AM	12.8	2070	7.4	9.5	68.3
2/6/2003	9:28 AM	9.4	2450	7.7	11.2	
2/13/2003	10:37 AM	12.3	2420	7.7	10.4	34.3
2/20/2003	10:30 AM	11.2	1470	7.9	11.0	96.4
2/27/2003	9:57 AM	13.1	1490	7.8	8.8	
3/6/2003	11:44 AM	14.5	1680	7.9	11.7	NA
3/13/2003	11:15 AM	17.5	1650	7.6	10.2	36.8
3/20/2003	9:45 AM	15.1	1780	7.5	9.3	46.6
3/27/2003	1:56 PM	17.6	1890	7.9	13.3	61.8
4/3/2003	12:12 PM	16.0	2020	7.3	8.8	52.3
4/10/2003	11:10 AM	19.2	2170	7.7	10.2	68.2
4/17/2003	10:07 AM	16.7	1780	7.5	8.7	60.7
4/24/2003	11:08 AM	17.3	2090	7.8	4.9	12.3
5/1/2003	10:30 AM	17.9	1910	7.6	8.0	NA
5/8/2003	9:44 AM	16.8	1920	7.2	8.5	48.3
5/15/2003	10:11 AM	19.4	2460	7.7	10.1	
5/22/2003	11:06 AM	23.6	1520	7.7	7.0	66.9
5/29/2003	8:35 AM	24.9	1440	7.7	6.8	
6/5/2003	11:11 AM	25.2	1440	7.9	7.3	137
6/12/2003	9:05 AM	20.7	1570	7.6	7.0	94.2
6/19/2003	11:08 AM	23.5	1550	7.9	6.4	98.1
6/26/2003	10:35 AM	24.1	1060	7.7	6.9	114
7/3/2003	10:32 AM	24.5	1070	7.8	10.1	
7/10/2003	10:24 AM	24.8	1180	7.8	7.7	
7/17/2003	10:37 AM	26.8	1090	7.6	1.6	
7/24/2003	10:14 AM	27.0	1080	7.8	6.9	NA
7/31/2003	10:38 AM	26.1	1060	7.6	4.9	98.8
8/7/2003	10:03 AM	23.6	901	7.8	6.7	136
8/14/2003	10:17 AM	23.3	1270	7.7	7.7	
8/21/2003	9:51 AM	24.2	940	7.8	7.6	91.0
8/28/2003	10:26 AM	23.9	995	8.1	7.3	176
9/4/2003	10:04 AM	24.6	1510	7.9	7.4	61.8
9/11/2003	12:29 PM	23.1	1680	8.1	10.0	39.2
9/18/2003	10:52 AM	19.0	2200	7.9	8.7	38.7
9/25/2003	11:10 AM	21.3	1690	8.0	9.2	63.0
10/2/2003	10:58 AM	19.7	1570	7.8	9.0	78.1
10/9/2003	10:19 AM	19.5	1240	7.6	10.5	100
10/16/2003	12:27 PM	17.9	1350	7.9	9.7	74.3
10/23/2003	11:34 AM	18.9	1350	7.8	8.8	124
10/30/2003	9:52 AM	15.2	1560	7.5	10.1	80.2
11/6/2003	10:40 AM	13.2	1300	7.9	10.7	100
11/13/2003	9:25 AM	12.8	1580	7.7	9.1	59.8

A3: 541MER538 – SJR @ Fremont Ford continued…

Date	Time	Temp (ºC)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
11/20/2003	10:14 AM	13.4	1480	7.3	4.3	NA
11/26/2003	9:28 AM	7.8	1560	7.8	11.3	40
12/4/2003	10:05 AM	12.1	2000	8.0	11.3	
12/11/2003	9:37 AM	11.3	2210	7.5	6.7	NA
12/18/2003	10:27 AM	8.9	1780	8.2	10.8	NA
12/23/2003	10:05 AM	10.9	1840	7.6	14.2	NA
12/30/2003	10:45 AM	8.5	1520	7.6	12.7	NA
1/8/2004	9:09 AM	8.4	1370	7.4	9.2	NA
1/15/2004	10:39 AM	9.8	1730	7.8	9.3	NA
1/22/2004	10:05 AM	9.3	1890	7.9	16.3	69.1
1/29/2004	10:51 AM	10.8	1880	7.8	11.4	NA
2/5/2004	9:53 AM	9.9	1510	7.4	17.4	71.8
2/12/2004	10:06 AM	10.6	1900	7.5	12.5	NA
2/19/2004	9:45 AM	12.4	1610	7.6	8.7	NA
2/26/2004	10:29 AM	12.4	1300	7.5	9.0	NA
3/4/2004	9:57 AM	12.5	1010	8.1	9.1	50.0
3/11/2004	10:37 AM	17.6	1490	7.9	8.3	NA
3/18/2004	9:12 AM	19.1	1960	7.7	11.5	
3/25/2004	11:00 AM	18.3	1910	8.0	9.7	53.0
4/1/2004	10:15 AM	16.3	2250	8.0	9.6	
4/8/2004	10:38 AM	18.2	2110	7.8	8.1	65.0
4/15/2004	10:29 AM	17.9	2380	8.0	9.2	67.0
4/22/2004	10:44 AM	16.9	1930	7.9	11.0	96.1
4/29/2004	11:57 AM	19.2	2530	8.1	NA	36.3
5/6/2004	11:24 AM	22.9	1620	7.7	12.5	68.1
5/13/2004	11:06 AM	20.5	1560	7.8	18.5	54.5
5/20/2004	10:46 AM	20.9	1570	7.5	8.5	67.5
5/27/2004	10:15 AM	22.7	2150	7.8	NA	NA
6/3/2004	11:08 AM	24.4	1560	8.0	8.2	72.5
6/10/2004	10:54 AM	21.2	1040	7.9	8.3	140
6/17/2004	11:30 AM	25.0	1390	7.9	8.2	79.2
6/24/2004	10:39 AM	23.7	1370	7.9	7.9	NA
7/1/2004	10:36 AM	23.3	1510	7.5	9.9	NA
7/8/2004	10:28 AM	24.8	1310	7.5	8.0	NA
7/15/2004	10:49 AM	24.8	833	7.5	5.3	NA
7/22/2004	10:14 AM	26.5	1130	7.9	8.4	NA
7/29/2004	10:22 AM	24.8	1390	8.1	4.4	NA
8/5/2004	9:52 AM	23.8	987	7.9	7.1	NA
8/12/2004	10:43 AM	25.9	1210	8.1	8.1	NA
8/19/2004	10:25 AM	25.5	1110	7.9	7.7	NA

A3: 541MER538 – SJR @ Fremont Ford continued…

Date	Time	Temp (ºC)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
8/26/2004	10:49 AM	23.3	1250	8.2	7.5	NA
9/2/2004	10:14 AM	23.6	2050	7.5	7.6	NA
9/9/2004	9:21 AM	23.1	1340	7.9	7.8	NA
9/16/2004	10:02 AM	20.8	1310	7.8	7.5	NA
9/23/2004	1:30 PM	22.4	1510	8.0	11.5	NA
9/30/2004	10:40 AM	18.8	1660	7.9	8.6	NA
10/7/2004	10:11 AM	19.3	1710	7.6	9.2	
10/14/2004	9:41 AM	18.4	1500	7.4	3.0	
10/21/2004	11:13 AM	15.6	938	NA	8.5	
10/28/2004	10:07 AM	12.6	1080	7.8	11.6	
11/4/2004	11:48 AM	12.8	1290	7.9	9.5	
11/11/2004	9:44 AM	14.2	1450	7.2	8.2	
11/18/2004	10:03 AM	13.5	1120	7.7	8.1	
11/23/2004	10:35 AM	9.2	1310	7.8	10.3	
12/2/2004	11:13 AM	7.3	1750	7.6	12.4	
12/9/2004	9:52 AM	10.8	1740	7.9	10.9	
12/16/2004	10:53 AM	11.0	1110	7.4	10.5	
12/22/2004	12:43 PM	9.1	1610	7.9	10.8	
12/29/2004	9:19 AM	9.5	1850	7.8	9.9	
1/6/2005	9:07 AM	8.6	344	7.5	9.6	
1/13/2005	11:03 AM	9.3	179	7.6	9.1	
1/20/2005	10:22 AM	8.5	579	7.2	8.7	
1/27/2005	10:14 AM	10.9	1170	7.3	10.3	
2/3/2005	10:50 AM	10.9	954	7.2	8.5	
2/10/2005	10:14 AM	12.6	1410	7.7	9.8	
2/17/2005	10:41 AM	14.1	762	7.5	10.1	
2/24/2005	10:38 AM	14.7	853	7.1	8.1	
3/3/2005	9:35 AM	15.4	866	7.2	9.4	
3/10/2005	11:49 AM	18.9	1350	7.9	9.9	
3/17/2005	9:40 AM	16.5	1670	7.3	13.8	
3/24/2005	10:30 AM	14.7	350	7.2	8.8	
3/31/2005	10:11 AM	14.7	564	7.2	10.0	
4/7/2005	10:50 AM	18.0	1170	7.0	8.0	
4/14/2005	9:44 AM	15.6	1160	7.2	11.0	
4/21/2005	10:31 AM	17.8	1580	7.3	11.2	
4/28/2005	9:57 AM	18.4	1500	7.0	13.5	
5/5/2005	10:54 AM	20.6	1350	7.2	9.0	
5/12/2005	9:58 AM	19.9	551	7.2	7.8	

A3: 541MER538 – SJR @ Fremont Ford continued…

Date	Time	Temp (ºC)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
5/19/2005	10:44 AM	20.9	171	7.0	6.5	
5/26/2005	10:56 AM	INA	INA	INA	INA	
6/2/2005	INA	INA	INA	INA	INA	
6/9/2005	9:25 AM	INA	INA	INA	INA	
6/16/2005	10:26 AM	24.0	539	7.0	6.9	
6/23/2005	11:15 AM	23.9	864	NA	7.5	
6/30/2005	11:35 AM	25.9	394	7.3	8.4	
7/7/2005	10:07 AM	25.6	1050	7.0	8.4	
7/13/2005	9:30 AM	27.4	947	7.7	8.1	
7/21/2005	9:50 AM	27.0	1220	7.8	7.4	
7/28/2005	11:52 AM	27.2	1310	7.8	7.4	
8/4/2005	10:03 AM	26.4	1120	7.7	7.4	
8/11/2005	11:44 AM	26.5	1010	7.9	7.8	
8/18/2005	10:35 AM	24.9	972	8.0	7.1	
8/25/2005	10:39 AM	24.3	946	7.5	7.8	
9/1/2005	10:09 AM	23.2	1010	7.9	10.2	
9/8/2005	10:33 AM	22.4	1040	7.2	8.6	
9/15/2005	10:13 AM	19.8	970	7.3	8.9	
9/21/2005	8:29 AM	20.5	933	7.9	7.9	
9/22/2005	11:15 AM	22.1	771	7.1	8.6	
9/29/2005	10:14 AM	20.5	1090	7.4	7.8	
Count		258	256	256	214	56
Min		6.2	171	6.3	1.6	12.3
Max		27.5	2730	8.2	18.5	176
Mean		17.5	1462	7.6	9.0	76.7
Geo Mean		17.2	1340	7.6	8.7	70.4
Median		17.9	1465	7.7	8.7	68.7
Quartile 1		12.6	1170	7.5	7.7	59.1
Quartile 3		23.1	1760	7.8	10.1	96.5

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

A3: 541MER538 – SJR @ Fremont Ford continued…

Date	TSS (mg/L)	TOC (mg/L)	Total Coli MPN	*E. coli MPN*
10/5/2000	97			
10/12/2000	160	6.2		
10/19/2000	NA	2.4		
10/26/2000	120	5.6		
11/2/2000	95	5.3		
11/9/2000	66	5		
11/16/2000	53	3		
11/21/2000	56	NA		
11/30/2000	39	3.1		
12/7/2000	61	1.6		
12/12/2000	64	2.7		
12/21/2000	NA	4.6		
12/28/2000	NA	4.5		
1/4/2001	36	5.2		
1/11/2001	98	5.5		
1/18/2001	35	5.9		
1/25/2001	63	7.6		
2/1/2001	50	6.9		
2/8/2001	54	6.5		
2/15/2001	77	3.9		
2/22/2001	67	9.1		
3/1/2001	67	8.5		
3/8/2001	68	11		
3/15/2001	61	6.6		
3/22/2001	82	3.6		
3/29/2001	NA	<1		
4/5/2001	76	NA		
4/12/2001	86	7.5		
4/19/2001	90	8.3		
4/26/2001		6.1		
5/3/2001	86	6.5		
5/10/2001	130	5.9		
5/17/2001		6		
5/24/2001	87	5.9		
5/31/2001	69	10		
6/7/2001	110	14		
6/14/2001	81	14		
6/21/2001	NA	14		
6/28/2001	180	9.9		
7/5/2001		8.7		
7/11/2001		8.1		
7/19/2001		9		

A3: 541MER538 – SJR @ Fremont Ford continued…

Date	TSS (mg/L)	TOC (mg/L)	Total Coli MPN	*E. coli MPN*
7/26/2001		6.8		
8/2/2001		6.6		
8/9/2001		8.9		
8/16/2001	88	9.1		
8/23/2001	120	9.4		
8/30/2001	65	12		
9/6/2001	45	12		
9/13/2001	50	14		
9/20/2001	NA	16		
9/27/2001	73	16		
10/4/2001	NA	14		
10/11/2001	41	15		
10/18/2001	66	22		
10/25/2001		20		
11/1/2001	42			
11/8/2001	86			
11/15/2001	58	8.2		
11/20/2001	63	NA		
11/29/2001	46	<1		
12/6/2001	66	6		
12/13/2001	39	4		
12/20/2001	50	11		
12/27/2001	37			
1/3/2002	76			
1/10/2002	62			
1/17/2002	43			
1/24/2002	37			
1/31/2002	32	NA		
2/7/2002	54	NA		
2/14/2002	62	NA		
2/21/2002	100			
2/28/2002	NA			
3/7/2002	110	9.9		
3/14/2002	81	7.7		
3/21/2002	74	7.6		
3/28/2002	37	NA		
4/4/2002	86	NA		
4/11/2002	62			
4/18/2002	42	7.8		
4/25/2002	97	NA		
5/2/2002	63	6.8		
5/16/2002	61	NA		
5/23/2002	110	NA		

A3: 541MER538 – SJR @ Fremont Ford continued…

Date	TSS (mg/L)	TOC (mg/L)	Total Coli MPN	*E. coli MPN*
5/30/2002	67	4.5		
6/6/2002	120	4		
6/13/2002	NA	NA		
6/20/2002	NA	5		
6/27/2002	32	8.2		
8/1/2002			>2419.6	91
8/15/2002		3.8		
8/22/2002		4.3		
8/29/2002	71			
9/5/2002		4.2		
9/12/2002	89	NA		
9/19/2002	60	NA		
9/26/2002	NA	5.3		
10/3/2002	41	4.4		
10/10/2002	46	3.9		
10/17/2002	66	4.7	>2419.6	111
10/24/2002	110	3.7		
10/31/2002	86	6		
11/7/2002	110	NA		
11/14/2002	88	6.3		
11/21/2002	56	6.4		
11/26/2002	47	6		
12/5/2002	66	4.8		
12/12/2002	63	4		
12/19/2002	110	7.8		
12/24/2002	44			
1/2/2003	54			
1/9/2003	51			
1/16/2003	61		980	68
1/23/2003	56			
1/30/2003	66			
2/6/2003	36			
2/13/2003	32			
2/20/2003	66			
2/27/2003	79			
3/6/2003	61			
3/13/2003	NA	8.2		
3/20/2003	NA	6.7		
3/27/2003		4.8		
4/3/2003	NA	NA		
4/10/2003	NA	5.3		
4/17/2003	71	10		

A3: 541MER538 – SJR @ Fremont Ford continued…

Date	TSS (mg/L)	TOC (mg/L)	Total Coli MPN	*E. coli MPN*
4/24/2003	56	8	>2419.6	142
5/1/2003	68	8.5		
5/8/2003	NA	7.6		
5/15/2003	29	6.7		
5/22/2003	94	4.6		
5/29/2003	110	7.2		
6/5/2003	120	10		
6/12/2003	110	6.5		
6/19/2003	110	7.5		
6/26/2003	130	7.3		
7/31/2003			>2419.6	93
8/28/2003			>2419.6	111
9/25/2003			>2419.6	84
10/30/2003			>2419.6	115
11/20/2003			>2419.6	124
1/29/2004			870	34
2/26/2004			>2419.6	119
3/11/2004		12		
3/18/2004		13		
3/25/2004			>2419.6	58
4/1/2004		10		
4/8/2004		9.3		
4/15/2004		9.9		
4/22/2004		9.4		
4/29/2004		13	>2419.6	122
5/6/2004		12		
5/13/2004		9.7		
5/20/2004		8.5		
5/27/2004		9.1	>2419.6	179
6/3/2004		10		
6/10/2004		10		
6/17/2004		11	>2419.6	82
6/24/2004			>2419.6	55
7/1/2004		11		
7/8/2004		8.8	>2419.6	51
7/15/2004		9.3		
7/22/2004		8.1		
7/29/2004		11	>2419.6	65
8/5/2004		7.6		
8/12/2004		9.7	>2419.6	82
8/19/2004		9.6		

A3: 541MER538 – SJR @ Fremont Ford continued…

Date	TSS (mg/L)	TOC (mg/L)	Total Coli MPN	*E. coli* *MPN*
8/26/2004			>2419.6	61
9/16/2004			>2419.6	62
9/30/2004			>2419.6	148
10/14/2004			>2419.6	81
10/28/2004		7	>2419.6	365
11/4/2004	78	10	>2419.6	144
11/11/2004	67	10		
11/18/2004	73	9.7	>2419.6	112
11/23/2004	51	9.1		
12/2/2004	35	7.8		
12/9/2004	59	7.6	>2419.6	129
12/16/2004	42	8.1		
12/22/2004	66	7.6	>2419.6	80
12/29/2004	92	7.7		
1/6/2005	27	13	>2419.6	260
1/13/2005	24	13		
1/20/2005	25		>2419.6	82
1/27/2005	43	8.6		
2/3/2005	27	12	>2419.6	82
2/10/2005	46	10		
2/17/2005	53	11	>2419.6	1414
2/24/2005	26	11		
3/3/2005	28	9.2		
3/10/2005	25	NA	2420	20
3/17/2005	40	10		
3/24/2005	98	9	>2419.6	>2419.6
3/31/2005	27	9.3		
4/7/2005	39	10	>2419.6	41
4/14/2005	54	NA		
4/21/2005	78	7.7	>2419.6	44
4/28/2005	80	NA		
5/5/2005	NA	10	>2419.6	84
5/12/2005	60	9.1		
5/19/2005	70	6.7	>2419.6	387
5/26/2005	INA	INA		
6/2/2005	INA	INA		
6/9/2005	INA	INA	INA	INA
6/16/2005	92	5.6		
6/23/2005	96	6.7	>2419.6	59
6/30/2005	59	3.7		
7/7/2005	140	4.8	>2419.6	60

A3: 541MER538 – SJR @ Fremont Ford continued…

Date	TSS (mg/L)	TOC (mg/L)	Total Coli MPN	*E. coli MPN*
7/13/2005	120	4.5		
7/21/2005	110	5.1	>2419.6	32
7/28/2005	86	5.4		
8/4/2005	100	5.5	>2419.6	73
8/11/2005	120	4.5		
8/18/2005	130	4.6	>2419.6	50
8/25/2005	100	4.6		
9/1/2005	120	4.4	>2419.6	42
9/8/2005	140	4.4	>2419.6	84
9/15/2005	96	4.5		
9/21/2005			>2419.6	687
9/22/2005	88	NA		
9/29/2005	50	5.3		
Count	151	160	46	46
Min	24.0	0.5	870	20
Max	180	22	2420	2420
Mean	72	7.9	NA	NA
Geo Mean	65	7.1	2321	101
Median	66	7.6	2420	83
Quartile 1	50	5.3	2420	60
Quartile 3	90	9.9	2420	124

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

A3: 541MER538 – SJR @ Fremont Ford 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)
10/12/2000								2.3	3.8
10/26/2000	2.2		<2		NA	<1	8.2	2	3.4
11/16/2000								1.8	3.1
11/30/2000	2.4		<2		0.2	<1	8.6	2.4	4.3
12/12/2000								2.6	4.3
12/28/2000	2.5		<2		0.2	<1	9.1	2.4	4.2
1/11/2001								2.8	4.5
1/25/2001	NA		NA		0.2	<1	9.8	2.6	4.3
2/8/2001	8.2		<2		0.2	<1	9.7	3.5	5.7
2/22/2001	16		2.2		NA	<1	10	3.6	6.1
3/15/2001	11		<2		0.4	<1	8.9	2.4	4.4
3/29/2001	7.8		NA		0.3	<1	9.9	3.4	5.7
4/19/2001	5		<2		0.2	<1	11	3.4	5.9
4/26/2001	7.1		<2		0.3	<1	8.1	2.5	4.4
5/17/2001	5		<2		0.4	<1	9.2	2.8	4.9
5/31/2001	4.5		<2		0.3	NA	9.3	2.9	5.4
6/7/2001	7.2		<1.0		0.3	<1	9.1	4.5	6.7
6/14/2001	11		<2			<1	10	3.3	6.8
6/21/2001	7.4		<2		0.4	<1	9.2	3.3	5.5
6/28/2001	6.6		<2		0.3	<1	7.9	2.9	5.4
8/16/2001	4.1		<2		0.4	<1	6.8		
8/30/2001	2.4		<2		0.4	<1	8.4		
9/27/2001	<2		<2		0.3	<1	10		
10/25/2001								1.6	3.7
11/29/2001	NA		NA		NA	0.1	NA	1.9	3.5
12/13/2001								1.4	2.8
12/27/2001	NA		NA		0.1	<0.03	5.1	1.6	3.2
1/17/2002								1.3	2.5
1/31/2002	NA		NA		0.2	NA	NA	2.1	3.4

A3: 541MER538 – SJR @ Fremont Ford 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)
2/14/2002	NA		0.9		0.2	0.1	7	2	3.3
2/28/2002	NA		NA		0.2	0.1	6.1	2.2	3.7
3/14/2002	NA		NA		NA	0.1	5.8	3.4	5.3
3/28/2002	NA		1.1		0.2	0.1	6.6	3.9	6.1
4/11/2002	NA		0.7		0.2	NA	8.9		
4/25/2002	NA		NA		0.3	NA	9.9	3	4.7
5/16/2002	NA		NA		NA	0.1	9.2	2.8	5
5/30/2002	NA		NA		NA	0.2	9.8	2.6	4.4
6/13/2002	12		NA		0.3	0.1	7.8	2.8	5.3
6/20/2002	NA		1.2		NA	0.1	9.1	2.5	4.7
7/18/2002	6		<2.0		NA	0.2	9.1		
7/25/2002	6.2		<2.0		0.3	0.2	8.5		
8/15/2002	4.2		<2.0		0.3	0.2	8.2		
8/29/2002	NA		1		NA	0.2	6.7	2.5	4.4
9/26/2002	NA		0.6		0.2	0.1	7.4	2.8	5.1
10/31/2002	NA		0.8		0.2	0.1	5.6	2	3.4
11/21/2002	NA		1.1		0.1	NA	3.3	2	3.6
12/19/2002	NA		1.8		0.2	0.1	5	4.6	6.7
1/30/2003	NA		0.5		0.2	0.1	4	1.9	2.9
3/13/2003	13		3		0.4	<1.0	8.8		
3/27/2003	8.1		1.5		0.3	<1.0	8.6		
4/10/2003	5.5		1.8		0.4	<1.0	9.7		
4/24/2003	3.6		<2.0		0.1	<1.0	10		
5/15/2003	2.9		<2.0		0.2	<1.0	12		
5/29/2003	3.5		<2.0		NA	<1.0	9.3		
6/12/2003	5.3		<2.0		0.4	<1.0	10		
6/26/2003	9.7		<2.0		NA	<1.0	7.6		

A3: 541MER538 – SJR @ Fremont Ford 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)
7/17/2003	5.9		1.4		0.4	<1.0	8.1		
7/31/2003	5.2		NA		0.5	<1.0	7.8		
8/14/2003	3.6		1.2		0.4	<1.0	7.9		
8/28/2003	2.1		1.4		0.4	<1.0	7.4		
9/25/2003	<2.0		1.2		0.2	<1.0	8.6		
10/30/2003	2		1.1		0.3	<1.0	9		
11/20/2003	2.3		<1.0		0.2	<1.0	9.2		
1/29/2004		0.6	0.8	0.1	0.2	0.1			
2/26/2004		3.7	1	NA	0.3	0.2			
3/11/2004		0.8	1.9	0.2	0.7	0.2			
3/25/2004		2.1	1.1	0.1	0.3	0.2			
4/15/2004		1	1.2	0.2	0.4	0.3			
4/29/2004		0.8	1.4	0.1	0.3	0.1			
5/13/2004		1	1	0.1	0.4	0.3			
6/10/2004		2.6	1.3	0.1	0.4	0.2			
6/24/2004		2.2	1.4	0.1	0.5	0.2			
4/15/2004			1.2		0.4	0.3			
4/29/2004			1.4		0.3	0.1			
5/13/2004			1		0.4	0.3			
7/15/2004		1.6	0.9	0.1	0.4	0.2			
8/26/2004		0.7	1.1	NA	0.4	0.1			
9/16/2004		0.2	0.8	0.1	0.4	0.1			
9/30/2004		0.1	0.7	0.1	NA	0.1			
10/28/2004		0.3	1.2	NA	0.4	0.4			
11/23/2004		0.5	1	NA	0.3	0.2			
12/29/2004		0.4	1	0.1	0.4	0.2			
1/27/2005		1.8	1	0.3	0.4	0.3			
2/24/2005		1.7	0.9	0.1	0.4	0.3			
3/31/2005		0.7	0.8	0.1	0.3	0.2			

A3: 541MER538 – SJR @ Fremont Ford 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)
4/28/2005		1	1.5	0.3	NA	0.4			
5/12/2005		0.7	NA	NA	0.3	0.2			
6/16/2005		NA	0.7	NA	NA	NA			
6/30/2005		0.7	0.6	0.1	0.2	0.1			
7/13/2005		1.4	0.9	NA	NA	0.2			
9/29/2005		0.4	0.9	NA	NA	0.2			
Count	37	24	71	17	67	78	54	41	41
Min	1.0	0.1	0.5	0.1	0.1	0.0	3.3	1.3	2.5
Max	16.0	3.7	3.0	0.3	0.7	0.5	12.0	4.6	6.8
Mean	5.8	1.1	1.1	0.1	0.3	0.3	8.3	2.6	4.5
Geo Mean	4.7	0.8	1.0	0.1	0.3	0.3	8.1	2.5	4.4
Median	5.2	0.8	1.0	0.1	0.3	0.3	8.7	2.6	4.4
Quartile 1	2.9	0.6	1.0	0.1	0.2	0.1	7.7	2.0	3.6
Quartile 3	7.4	1.6	1.2	0.1	0.4	0.5	9.3	3.0	5.4

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

A3: 541MER538 – SJR @ Fremont Ford continued…

Date	Hardness (mg/L)	Total Arsenic (ug/L)	Total Cadmium (ug/L)	Total Chromium (ug/L)	Total Copper (ug/L)	Total Lead (ug/L)	Total Nickel (ug/L)	Total Zinc (ug/L)	Total Mercury (ug/L)
10/26/2000	260			6.8	7	<5	9.5	22	
11/30/2000	330			1.2	1.7	<5	<5	16	
12/28/2000	370			<1	2	<5	<5	4.1	
1/25/2001	360			2	3.6	<5	<5	5	
2/22/2001	350			2.2	5.2	<5	5.5	8.4	
3/29/2001	370			3.9	3.8	<5	6.5	9.1	
4/26/2001	270			3.1	4.4	<5	5.2	10	
5/31/2001	340			2.4	3.4	<5	<5	7.9	
6/7/2001	290	6.7	1	3.9	4.9	<5	6.5	12	<0.2
6/14/2001	320	6	<1	2.5	5.5	<5	5.3	7.7	<0.2
6/21/2001	NA	7	<1	5.2	5.7	<5	8.6	16	<0.2
6/28/2001	240	5.9	<1	4.1	4.8	<5	6.7	13	<0.2
7/26/2001		NA	NA	5	5	<5	7	15	NA
8/30/2001	280	6.1	<1	2.1	3.4	<5	<5	7.7	
9/27/2001	340	6	<1	<1	2.2	<5	<5	<2	<0.2
10/25/2001	330	4.3	<0.1	1.4	2.4	<5	<5	4.8	<0.2
11/29/2001	350	4.8	<0.1	<1	<1	<5	<5	5.8	<0.2
12/27/2001	420	4.8	<0.1	3.1	3.3	<5	5.3	7.3	<0.2
1/31/2002		<4.0	<0.1	<1.0	NA	<5.0	<5.0	<2.0	<0.2
2/28/2002	360	5.8	<0.1	3.8	5.7	<5.0	6.5	14	<0.2
3/28/2002	460	<4.0	<0.1	1.5	2	<5.0	NA	5.1	<0.2
4/25/2002		5.8	<0.1	<1.0	1.7	<5.0	<5.0	<2.0	<0.2
5/30/2002	380	5.7	<0.1	1.6	2.4	<5.0	<5.0	2.9	<0.2
6/20/2002	310	6.6	<0.1	3.2	3.9	<5.0	5.1	8.8	<0.2
9/26/2002	290	5.4	<0.1	3.3	4.2	<5.0	5.5	11	<0.2
10/31/2002	280	<4.0	<0.1	2.9	3.6	<5.0	5	8.2	<0.2
11/21/2002	290	4.5	<0.1	3.8	3.9	<5.0	6.1	8.6	<0.2

A3: 541MER538 – SJR @ Fremont Ford 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)
3/27/2003	400	6	<0.1	1.7	2.6	<5.0	<5.0	3.4	<0.2
4/24/2003	430	5.1	<0.1	NA	NA	NA	<5.0	3.9	<0.2
5/29/2003	310	7.5	<0.1	4.8	6.2	<5.0	<5.0	13	<0.2
6/26/2003	240	8.6	<0.1	6.6	6.4	<5.0	8.7	16	<0.2
Count	27	22	22	30	29	30	30	31	21
Min	240.0	2.0	0.1	0.5	0.5	2.5	2.5	1.0	0.1
Max	460.0	8.6	1.0	6.8	7.0	2.5	9.5	22.0	0.1
Mean	332.2	5.4	0.2	2.8	3.8	2.5	4.6	8.7	0.1
Geo Mean	327.6	5.0	0.1	2.2	3.4	2.5	4.1	6.8	0.1
Median	330.0	5.8	0.1	2.7	3.8	2.5	5.1	8.2	0.1
Quartile 1	290.0	4.8	0.1	1.5	2.4	2.5	2.5	4.9	0.1
Quartile 3	365.0	6.1	0.4	3.9	5.0	2.5	6.4	12.5	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

A3: 541MER538 – SJR @ Fremont Ford continued…

Date	Hardness (mg/L)	Dissolved Arsenic (ug/L)	Dissolved Cadmium (ug/L)	Dissolved Chromium (ug/L)	Dissolved Copper (ug/L)	Dissolved Lead (ug/L)	Dissolved Nickel (ug/L)	Dissolved Zinc (ug/L)	Dissolved Mercury (ug/L)
10/26/2000	260			<1	1.1	<5	<5	<2	
11/30/2000	330			<1	<1	<5	<5	<2	
12/28/2000	370			<1	<1	<5	<5	<2	
1/25/2001	360			<1	<1	<5	<5	<2	
2/22/2001	350			<1	1.2	<5	<5	<2	
3/29/2001	370			<1	2.1	<5	<5	<2	
4/26/2001	270			<1	1.0	<5	<5	<2	
5/31/2001	340			<1	1.4	<5	<5	<2	
6/7/2001	290	4.7	<1	<1	1.6	<5	<5	<2	<0.2
6/14/2001	320	4.9	<1	<1	3.1	<5	<5	<2	<0.2
6/21/2001	NA	4.7	<1	<1	<1	<5	<5	<2	<0.2
6/28/2001	240	4.9	<1	<1	<1	<5	<5	<2	<0.2
7/26/2001		NA	NA	NA	NA	NA	NA	NA	NA
8/30/2001	280	4	<1	<1	3.2	<5	<5	<2	
9/27/2001	340	4	<1	<1	1.0	<5	<5	<2	<0.2
10/25/2001	330	<4	<0.1	<1	<1	<5	<5	<2	<0.2
11/29/2001	350	<4	<0.1	<1	<1	<5	<5	8.2	<0.2
12/27/2001	420	<4	<0.1	<1	<1	<5	<5	<2	<0.2
1/31/2002		<4.0	<0.1	<1.0	NA	<5.0	<5.0	<2.0	<0.2
2/28/2002	360	<4.0	<0.1	<1.0	1.9	<5.0	<5.0	3.8	<0.2
3/28/2002	460	<4.0	<0.1	<1.0	1.0	<5.0	<5.0	3.1	<0.2
4/25/2002		4.7	<0.1	<1.0	1.2	<5.0	<5.0	NA	<0.2
5/30/2002	380	4.3	<0.1	<1.0	1.5	<5.0	<5.0	<2.0	<0.2
6/20/2002	310	<4.0	<0.1	1.5	2.5	<5.0	<5.0	6.1	<0.2
9/26/2002	290	<4.0	<0.1	<1.0	1.5	<5.0	<5.0	<2.0	<0.2
10/31/2002	280	<4.0	<0.1	<1.0	1.0	<5.0	<5.0	<2.0	<0.2

A3: 541MER538 – SJR @ Fremont Ford continued…

Date	Hardness (mg/L)	Dissolved Arsenic (ug/L)	Dissolved Cadmium (ug/L)	Dissolved Chromium (ug/L)	Dissolved Copper (ug/L)	Dissolved Lead (ug/L)	Dissolved Nickel (ug/L)	Dissolved Zinc (ug/L)	Dissolved Mercury (ug/L)
11/21/2002	290	4.1	<0.1	<1.0	2.1	<5.0	<5.0	<2.0	<0.2
Count	23	18	18	26	25	26	26	25	17
Min	240.0	2.0	0.1	0.5	0.5	2.5	2.5	1.0	0.1
Max	460.0	4.9	0.5	1.5	3.2	2.5	2.5	8.2	0.1
Mean	330.0	3.2	0.2	0.5	1.3	2.5	2.5	1.7	0.1
Geo Mean	326.1	3.0	0.1	0.5	1.1	2.5	2.5	1.3	0.1
Median	330.0	3.0	0.1	0.5	1.1	2.5	2.5	1.0	0.1
Quartile 1	290.0	2.0	0.1	0.5	0.5	2.5	2.5	1.0	0.1
Quartile 3	360.0	4.6	0.5	0.5	1.6	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

A3: 541MER538 – SJR @ Fremont Ford continued…

Date	Chloride (mg/L)	Sulfate (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	TDS (mg/L)	Carbonate (mg/L)	Bicarbonate (mg/L)	Total Alkalinity (mg/L)	Sodium (mg/L)
10/26/2000	200	170	53	31	830	<1	220	180	180
11/30/2000	270	210	67	39	1000	<1	240	200	240
12/28/2000	310	250	73	44	1100	<1	250	200	260
1/25/2001	280	270	75	42	1100	<1	240	200	250
2/22/2001	240	210	75	39	970	<1	220	180	200
3/29/2001	240	240	79	NA	1000	<1	230	190	210
4/26/2001	180	160	58	31	750	<1	140	140	150
5/31/2001	330	200	69	40	990	<1	160	160	210
6/7/2001	220	160	62	34	800	<1	190	160	180
6/14/2001	230	190	69	36	890	<1	200	170	190
6/21/2001	190	160	58	30	750	<1	190	150	150
6/28/2001	160	130	51	27	600	<1	170	140	130
8/30/2001	240	160	57	34	920	<1	220	180	220
9/27/2001	NA	220	66	43	1100	<1	NA	NA	250
10/25/2001	300	220	65	41	1000	<1	240	NA	260
11/29/2001	300	240	70	42	1100	<1	240	200	250
12/27/2001	440	310	84	52	1400	<1	270	220	310
2/28/2002	260	230	76	41	970	<1.0	230	190	230
3/28/2002	340	330	96	53	NA	<1.0	260	210	290
5/30/2002	150	240	79	46	1200	<1.0	220	180	270
6/20/2002	240	190	67	36	NA	<1.0	200	170	190
9/26/2002	260	170	58	35	NA	<1.0	210	170	220
10/31/2002	240	170	56	33	850	<1.0	220	180	200
11/21/2002	240	190	60	34	910	<1.0	220	180	180
3/27/2003			87	45					
4/24/2003	400	280	87	52					
5/29/2003	240	170	65	35					

A3: 541MER538 – SJR @ Fremont Ford 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)
6/26/2003	160	130	53	25					
Count	26	27	28	27	21	24	23	22	24
Min	150	130	51	25	600	0.5	140	140	130
Max	440	330	96	53	1400	0.5	270	220	310
Mean	260	210	68	39	960	0.5	220	180	220
Geo Mean	250	200	67	38	950	0.5	210	180	210
Median	240	200	67	39	970	0.5	220	180	220
Quartile 1	220	170	58	34	850	0.5	200	170	190
Quartile 3	300	240	75	43	1100	0.5	240	200	250

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

A3: 541MER538 – SJR @ Fremont Ford 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(%)
3/27/2003	100	100	100	100	4.74	1.73	N/A
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
[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

A4: 541STC512 – SJR @ Hills Ferry

Station Code: 541STC512

Location: Latitude 37.3425, Longitude -120.97722

Date	Time	Temp (ºC)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
10/26/2000	12:30 PM	14.6	1280	7.5		
11/30/2000	10:30 AM	10.2	1830	7.5		
12/28/2000	12:10 PM	8.7	2050	7.6		
1/25/2001	1:15 PM	10.3	2060	7.6		
2/7/2001	10:23 AM	10.1	2170	6.6		
2/22/2001	1:55 PM	15.1	2050	8.1		
3/13/2001	11:35 AM	16.7	1700	7.4		
3/29/2001	12:30 PM	20.5	2340	7.9		
4/18/2001	11:20 AM	19.2	2450	7.7		
4/26/2001	9:22 AM	21.2	1540	6.9		
5/15/2001	11:45 AM	21.9	1620	6.9		
5/30/2001	1:25 PM	26.6	2070	7.2		
6/6/2001	10:15 AM	22.2	2060	7.9	6.2	
6/13/2001	9:45 AM	21.0	2400	8.1	7.7	
6/20/2001	9:45 AM	26.0	1800	7.8	6.9	
6/27/2001	12:27 PM	23.6	1740	7.9	7.7	
7/25/2001	12:49 PM	27.0	1690	8.2	9.6	
8/14/2001	11:17 AM	23.0	1920	8.3	10.1	
8/29/2001	1:13 PM	27.0	1950	8.2	3.9	
9/26/2001	11:49 AM	21.4	1750	7.9	8.6	
10/24/2001	1:21 PM	16.4	1760	7.9	8.6	
11/28/2001	12:00 PM	10.1	1790	8.1	10.5	
12/26/2001	11:50 AM	10.2	2340	7.9	9.9	
1/30/2002	12:20 PM	8.0	2520	8.1	11.8	
2/27/2002	11:18 AM	15.6	2300	7.8	8.8	
3/27/2002	10:52 AM	16.5	2570	8.0	10.1	
4/30/2002	11:53 AM	17.9	2480	8.0	10.6	
5/29/2002	11:58 AM	24.8	2200	8.0	9.4	
6/19/2002	11:37 AM	24.7	2360	8.2	9.3	
7/30/2002	9:05 AM	23.7	1410	7.6	6.6	141
8/28/2002	12:45 PM	26.9	1840	8.2	NA	
9/25/2002	1:20 PM	24.4	1640	7.9	8.9	
10/15/2002	9:14 AM	17.4	1910	7.4	7.8	NA
10/30/2002	INA	INA	INA	INA	INA	
11/20/2002	11:49 AM	13.5	1660	7.8	9.4	
12/18/2002	11:26 AM	10.6	1460	7.7	8.5	150
1/14/2003	INA	INA	INA	INA	INA	INA
1/29/2003	12:05 PM	13.4	2140	7.7	8.5	57.9

A4: 541STC512 – SJR @ Hills Ferry continued…

Date	Time	Temp (ºC)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
3/25/2003	10:27 AM	16.7	2300	7.7	9.5	88.6
4/24/2003	12:33 PM	17.5	2900	7.9	8.8	27.5
5/29/2003	11:27 AM	26.1	2160	7.8	7.4	142
6/26/2003	11:06 AM	24.8	1850	8.1	8.2	130
7/31/2003	11:52 AM	26.2	1550	7.8	5.9	154
8/28/2003	11:35 AM	24.3	1490	7.9	8.0	116
9/25/2003	11:45 AM	22.2	1550	7.9	8.8	64.8
10/30/2003	11:42 AM	16.7	1630	7.8	7.5	67.4
11/20/2003	12:11 PM	13.7	1610	7.8	9.1	44.3
1/29/2004	11:30 AM	11.4	2240	7.7	11.4	44.8
2/26/2004	11:28 AM	12.6	1500	7.8	9.7	NA
3/11/2004	10:58 AM	18.2	1880	8.0	8.7	NA
3/25/2004	11:37 AM	18.5	2390	8.0	8.9	56.2
4/15/2004	10:54 AM	18.7	3080	8.0	9.8	49.8
4/29/2004	12:25 PM	18.7	2780	8.2	NA	46.8
5/13/2004	11:29 AM	21.2	1830	8.0	NA	59.8
5/27/2004	10:38 AM	22.7	2140	8.0	NA	NA
6/10/2004	12:04 PM	22.2	1900	8.1	9.3	194
6/24/2004	11:10 AM	24.3	1160	8.1	8.8	NA
7/15/2004	11:21 AM	24.8	1830	8.1	10.6	
7/29/2004	10:53 AM	25.4	1960	8.2	9.7	
8/26/2004	11:16 AM	23.7	1160	8.2	8.8	
9/30/2004	11:05 AM	19.5	2180	7.8	9.4	
10/28/2004	10:27 AM	12.9	1150	7.7	10.3	
11/18/2004	10:29 AM	13.5	1340	7.6	7.8	
11/23/2004	11:48 AM	9.6	1580	7.4	11.8	
12/22/2004	10:27 AM	8.7	1840	7.9	12.6	
12/29/2004	11:05 AM	9.7	1820	7.5	10.9	
1/20/2005	10:52 AM	8.6	821	7.4	8.6	
1/27/2005	1:06 PM	11.4	1630	7.4	12.2	
2/17/2005	11:59 AM	14.4	1330	7.7	11.2	
2/24/2005	11:15 AM	14.9	1090	7.5	8.2	
3/24/2005	10:59 AM	14.9	960	7.4	9.3	
3/29/2005	1:16 PM	15.6	859	7.3	9.2	
4/21/2005	10:54 AM	16.9	1620	7.8	10.3	
4/28/2005	11:36 AM	18.0	1580	7.7	9.3	
5/19/2005	10:55 AM	20.3	307	7.2	7.2	
5/26/2005	12:34 PM	22.8	220	7.3	5.2	
6/23/2005	11:41 AM	23.0	993	NA	8.8	
6/30/2005	12:06 PM	26.1	520	7.7	8.2	
7/21/2005	10:15 AM	27.8	1680	8.1	8.5	
7/28/2005	11:34 AM	27.3	1820	7.7	8.7	

A4: 541STC512 – SJR @ Hills Ferry continued…

Date	Time	Temp (ºC)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
8/18/2005	11:00 AM	25.1	1420	8.0	7.5	
8/25/2005	11:55 AM	25.0	1500	7.7	8.3	
9/21/2005	8:45 AM	21.1	1190	7.8	7.7	
9/22/2005	11:40 AM	23.0	1260	7.4	8.7	
9/29/2005	11:58 AM	22.0	1490	7.0	8.0	
Count		83	83	82	67	18
Min		8.0	220	6.6	3.9	27.5
Max		27.8	3080	8.3	12.6	194
Mean		18.8	1760	7.8	8.9	90.8
Geo Mean		17.9	1650	7.8	8.7	78.5
Median		19.2	1790	7.8	8.8	66.1
Quartile 1		14.5	1500	7.6	8.1	51.4
Quartile 3		23.7	2100	8.0	9.7	138

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

A4: 541STC512 – SJR @ Hills Ferry continued…

Date	TSS (mg/L)	TOC (mg/L)	Total Coli MPN	*E. coli* MPN
10/26/2000	42	8.6		
11/30/2000	34	3.7		
12/28/2000	NA	6.5		
1/25/2001	56	7.2		
2/22/2001	61	9.5		
3/29/2001	NA	<1		
4/26/2001		5.5		
5/30/2001	110	11		
6/27/2001	150	11		
7/25/2001		6.5		
8/29/2001	NA	14		
9/26/2001	NA	16		
11/28/2001		NA		
12/26/2001		9.8		
3/27/2002		NA		
4/30/2002		NA		
5/29/2002		6.1		
6/19/2002		NA		
7/30/2002			>2419.6	124
9/25/2002		NA		
10/15/2002			>2419.6	77
11/20/2002		7.9		
12/18/2002		7.0		
1/14/2003			INA	INA
3/25/2003		6.7		
4/24/2003		NA	>2419.6	816
5/29/2003		9.7		
6/26/2003		6.2		
7/31/2003			>2419.6	>2419.6
8/28/2003			>2419.6	155
9/25/2003			>2419.6	238
10/30/2003			>2419.6	120
11/20/2003			>2419.6	328
1/29/2004			>2419.6	33
2/26/2004			>2419.6	387
3/25/2004			>2419.6	69
4/29/2004			>2419.6	236
5/27/2004		10	>2419.6	214
6/24/2004			>2419.6	75
7/29/2004		11	>2419.6	99
8/26/2004			>2419.6	91
9/30/2004			>2419.6	78
10/28/2004			>2419.6	291

A4: 541STC512 – SJR @ Hills Ferry continued…

Date	TSS (mg/L)	TOC (mg/L)	Total Coli MPN	*E. coli* MPN
11/18/2004		9.3	>2419.6	152
12/22/2004		8.3	>2419.6	44
1/20/2005			>2419.6	27
2/17/2005		11	>2419.6	1203
3/24/2005		11	>2419.6	1203
4/21/2005		8.7	>2419.6	114
5/19/2005		6.6	>2419.6	411
6/23/2005		6.2	>2419.6	77
7/21/2005		6.2	>2419.6	31
8/18/2005		5.4	>2419.6	108
9/21/2005			>2419.6	192
9/22/2005		NA		
Count	6	30	29	29
Min	34	0.5	2420	27
Max	150	16	2420	2420
Mean	76	8	NA	NA
Geo Mean	66	7	2420	162
Median	59	8.1	2420	124
Quartile 1	46	6.3	2420	77
Quartile 3	98	10	2420	291

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

A4: 541STC512 – SJR @ Hills Ferry continued…

Date	Nitrate (mg/L)	Nitrate-N (mg/L)	TKN (mg/L)	Ammonia-N (mg/L)	Phosphorus (mg/L)	Ortho-phosphate-P (mg/L)	Potassium (mg/L)	BOD 5-Day (mg/L)	BOD 10-Day (mg/L)
10/26/2000	3.4		<2		NA	<1	11	2.3	4.4
11/30/2000	6.4		<2		0.2	<1	9.9	1.8	3.5
12/28/2000	7.1		<2		0.2	<1	10	1.7	3
1/25/2001	NA		NA		0.3	<1	11	2.9	5
2/7/2001	NA		<2		NA	<1	NA		
2/22/2001	19		2.6		NA	<1	12	4.3	8.1
3/29/2001	14		NA		0.4	<1	12	3.8	6.6
4/26/2001	10		<2		0.2	<1	8.1	2.7	5.3
5/30/2001	13		<2		0.3	<1	10	4.2	7.2
6/27/2001	13		<2		0.4	<1	11	3.3	6.6
8/29/2001	9.6		<2		0.3	<1	NA		
9/26/2001	3.5		<2		0.3	<1	10		
10/24/2001	3.5		<2		0.4	<1	11	2.9	6
11/28/2001	NA		0.2		NA	<0.03	11	1.8	3.5
12/26/2001	NA		0.7		0.2	0.1	6.2	1.8	3.4
1/30/2002	NA		1.3		0.2	0.1	13	1.7	2.7
2/27/2002	NA		1		0.3	0.1	NA	2.7	4.5
3/27/2002	NA		1.4		NA	0.1	7.7	4.2	7
4/30/2002	NA		NA		0.2	0.1	NA	5.2	8
5/29/2002	NA		0.9		NA	0.2	11	3.6	6.2
6/19/2002	NA		1.4		0.2	NA	8.1	5.4	10.1
8/28/2002	NA		1.5		0.3	NA	7.1	3.9	8
9/25/2002								3	5.4
11/20/2002	NA		1.2		0.3	0.1	7		
12/18/2002	NA		1.5		0.1	<0.03	5.4	2.3	4.3
1/29/2003	NA		NA		0.2	0.2	5.6	2.2	3.6

A4: 541STC512 – SJR @ Hills Ferry continued…

Date	Nitrate (mg/L)	Nitrate-N (mg/L)	TKN (mg/L)	Ammonia-N (mg/L)	Phosphorus (mg/L)	Ortho-phosphate-P (mg/L)	Potassium (mg/L)	BOD 5-Day (mg/L)	BOD 10-Day (mg/L)
Count	11	NA	21	NA	19	23	21	22	22
Min	3.4	NA	0.2	NA	0.1	0.02	5.4	1.7	2.7
Max	19.0	NA	2.6	NA	0.4	0.5	13.0	5.4	10.1
Mean	9.3	NA	1.1	NA	0.3	0.3	9.4	3.1	5.6
Geo Mean	8.0	NA	1.0	NA	0.2	0.2	9.1	2.9	5.2
Median	9.6	NA	1.0	NA	0.3	0.5	10.0	2.9	5.4
Quartile 1	5.0	NA	1.0	NA	0.2	0.1	7.7	2.2	3.8
Quartile 3	13.0	NA	1.3	NA	0.3	0.5	11.0	3.9	6.9

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

A4: 541STC512 – SJR @ Hills Ferry continued…

Date	Hardness (mg/L)	Total Arsenic (ug/L)	Total Cadmium (ug/L)	Total Chromium (ug/L)	Total Copper (ug/L)	Total Lead (ug/L)	Total Nickel (ug/L)	Total Zinc (ug/L)	Total Mercury (ug/L)
10/26/2000	270			2.5	2.2	<5	6.4	5.9	
11/30/2000	370			1.7	1.9	<5	<5	3.4	
12/28/2000	410			1.3	2.3	<5	<5	<2	
1/25/2001	410			2	3.2	<5	<5	3.4	
2/22/2001	430			3.2	4.5	<5	6.4	5.6	
3/29/2001	500			5.5	4.8	<5	8.4	19	
4/26/2001	330			2.4	3.3	<5	<5	4.9	
5/30/2001	440			3.4	4.1	<5	6.8	7.6	
7/25/2001				5.8	5.4	<5	8.5	14	
8/29/2001	NA	5.1	<1	2.9	3	<5	5.4	5.4	
9/26/2001	350	<4	<0.1	5.4	4.8	<5	8.5	9.3	<0.2
10/24/2001	350	4.9	<0.1	NA	1.9	<5.0	<5.0	<2.0	<0.2
11/28/2001	340	5.8	<0.1	<1.0	1.2	<5.0	<5.0	3.2	<0.2
12/26/2001	440	5.6	<0.1	3.7	3.2	<5	6.2	8.2	<0.2
1/30/2002	500	<4	<0.1	1	<1	<5	<5	<2	<0.2
3/27/2002	540	4.6	<0.1	2.6	3.2	<5.0	6.7	6.9	<0.2
4/30/2002	540	<4.0	<0.1	2.4	2.5	<5.0	5.1	4.3	<0.2
5/29/2002	490	6	<0.1	4.8	NA	<5.0	7.4	7.3	<0.2
6/19/2002	530	5.8	<0.1	6.9	7.2	<5.0	9.1	12	<0.2
9/25/2002	330	6.8	<0.1	6.1	NA	<5.0	8.9	12	<0.2
11/20/2002	330	<4.0	<0.1	1.1	2.3	<5.0	NA	NA	<0.2
3/25/2003	490	8.2	<0.1	7.2	5.4	<5.0	9.3	13	<0.2
4/24/2003	600	<4.0	<0.1	2.1	2.5	<5.0	<5.0	<2.0	<0.2
5/29/2003	470	9.4	<0.1	10	7.5	<5.0	13	16	<0.2
6/26/2003	390	5.8	<0.1	6.8	5.5	<5.0	8.9	13	NA

A4: 541STC512 – SJR @ Hills Ferry continued…

Date	Hardness (mg/L)	Total Arsenic (ug/L)	Total Cadmium (ug/L)	Total Chromium (ug/L)	Total Copper (ug/L)	Total Lead (ug/L)	Total Nickel (ug/L)	Total Zinc (ug/L)	Total Mercury (ug/L)
Count	23	16	16	24	23	25	24	24	14
Min	270.0	2.0	0.1	0.5	0.5	2.5	2.5	1.0	0.1
Max	600.0	9.4	0.5	10.0	7.5	2.5	13.0	19.0	0.1
Mean	428.3	4.9	0.1	3.8	3.6	2.5	6.0	7.4	0.1
Geo Mean	419.8	4.3	0.1	3.0	3.1	2.5	5.2	5.4	0.1
Median	430.0	5.4	0.1	3.1	3.2	2.5	6.4	6.4	0.1
Quartile 1	350.0	2.0	0.1	2.1	2.3	2.5	2.5	3.4	0.1
Quartile 3	495.0	5.9	0.1	5.6	4.8	2.5	8.5	12.0	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

A4: 541STC512 – SJR @ Hills Ferry continued…

Date	Hardness (mg/L)	Dissolved Arsenic (ug/L)	Dissolved Cadmium (ug/L)	Dissolved Chromium (ug/L)	Dissolved Copper (ug/L)	Dissolved Lead (ug/L)	Dissolved Nickel (ug/L)	Dissolved Zinc (ug/L)	Dissolved Mercury (ug/L)
10/26/2000	270			<1	<1	<5	<5	<2	
11/30/2000	370			<1	1.1	<5	<5	<2	
12/28/2000	410			<1	<1	<5	<5	<2	
1/25/2001	410			<1	<1	<5	<5	<2	
2/22/2001	430			<1	1.4	<5	<5	<2	
3/29/2001	500			<1	2.2	<5	<5	<2	
4/26/2001	330			<1	<1	<5	<5	<2	
5/30/2001	440			<1	1.3	<5	<5	<2	
8/29/2001	NA	4.5	<1	<1	2.1	<5	<5	2.3	
9/26/2001	350	<4	<0.1	<1	1.6	<5	<5	<2	<0.2
10/24/2001	350	4.4	<0.1	NA	1.2	<5.0	<5.0	<2.0	<0.2
11/28/2001	340	4.9	<0.1	<1.0	<1.0	<5.0	<5.0	NA	<0.2
12/26/2001	440	<4	<0.1	<1	1.1	<5	<5	3.8	<0.2
1/30/2002	500	<4	<0.1	<1	<1	<5	<5	<2	<0.2
3/27/2002	540	4.2	<0.1	<1.0	1.5	<5.0	<5.0	<2.0	<0.2
4/30/2002	540	<4.0	<0.1	<1.0	<1.0	<5.0	<5.0	<2.0	<0.2
5/29/2002	490	5	<0.1	<1.0	1.3	<5.0	<5.0	<2.0	<0.2
6/19/2002	530	<4.0	<0.1	3.2	4	<5.0	<5.0	6.1	<0.2
9/25/2002	330	5.3	<0.1	<1.0	NA	<5.0	<5.0	<2.0	<0.2
11/20/2002	330	<4.0	<0.1	<1.0	1.5	<5.0	<5.0	<2.0	<0.2

A4: 541STC512 – SJR @ Hills Ferry continued…

Date	Hardness (mg/L)	Dissolved Arsenic (ug/L)	Dissolved Cadmium (ug/L)	Dissolved Chromium (ug/L)	Dissolved Copper (ug/L)	Dissolved Lead (ug/L)	Dissolved Nickel (ug/L)	Dissolved Zinc (ug/L)	Dissolved Mercury (ug/L)
Count	19	12	12	19	19	20	20	19	11
Min	270.0	2.0	0.1	0.5	0.5	2.5	2.5	1.0	0.1
Max	540.0	5.3	0.5	3.2	4.0	2.5	2.5	6.1	0.1
Mean	415.8	3.4	0.1	0.6	1.3	2.5	2.5	1.5	0.1
Geo Mean	407.8	3.1	0.1	0.6	1.0	2.5	2.5	1.2	0.1
Median	410.0	3.1	0.1	0.5	1.2	2.5	2.5	1.0	0.1
Quartile 1	345.0	2.0	0.1	0.5	0.5	2.5	2.5	1.0	0.1
Quartile 3	495.0	4.6	0.1	0.5	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

A4: 541STC512 – SJR @ Hills Ferry continued…

Date	Chloride (mg/L)	Sulfate (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	TDS (mg/L)	Carbonate (mg/L)	Bicarbonate (mg/L)	Total Alkalinity (mg/L)	Sodium (mg/L)
10/26/2000	160	180	56	31	770	<1	220	180	160
11/30/2000	240	290	77	43	1100	<1	250	200	250
12/28/2000	290	340	83	49	1200	<1	260	210	280
1/25/2001	290	370	84	49	1300	<1	270	220	290
2/22/2001	280	380	92	50	1300	<1	260	210	280
3/29/2001	330	460	110	58	1500	<1	260	220	320
4/26/2001	200	280	70	37	950	<1	150	150	200
5/30/2001	290	390	94	49	NA	4	172	176	280
6/27/2001	220	350	83	41	1100	<1	200	170	220
8/29/2001	260	NA	NA	NA	1200	<1.0	210	169	260
9/26/2001	NA	NA	72	41	NA	<1	200	170	240
10/24/2001	270	250	70	43	1100	<1	250	210	260
11/28/2001	260	270	67	43	1100	<1	260	210	250
12/26/2001	380	400	83	56	150	<1	280	230	330
1/30/2002	390	450	100	61	1600	<1	290	240	360
2/27/2002	340	450	100	56	NA	<1.0	268	220	340
3/27/2002	380	470	110	64	1700	<1.0	290	240	370
4/30/2002	360	480	120	59	NA	<1.0	220	180	350
5/29/2002	290	420	100	55	NA	<1.0	200	190	330
6/19/2002	320	540	120	57	NA	<1.0	200	160	350
9/25/2002	230	240	66	39	NA	<1.0	210	170	240
11/20/2002	250	240	66	40	1000	<1.0	250	200	220
3/25/2003	340	430	100	59					
4/24/2003	460	550	130	68					
5/29/2003	290	450	100	51					
6/26/2003	220	390	89	42					

A4: 541STC512 – SJR @ Hills Ferry 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	24	25	25	15	22	22	22	22
Min	160	180	56	31	150	0.5	150	150	160
Max	460	550	130	68	1700	4.0	290	240	370
Mean	300	380	90	50	1100	0.7	240	200	280
Geo Mean	290	360	88	49	1000	0.5	230	200	280
Median	290	390	89	49	1100	0.5	250	200	280
Quartile 1	250	290	72	42	1100	0.5	200	180	240
Quartile 3	340	450	100	57	1300	0.5	260	220	330

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

A4: 541STC512 – SJR @ Hills Ferry continued…

	96h Acute Fathead Minnow (% Survival)		48h Acute Ceriodaphnia Dubia (% Survival)		Algae Cell Growth		
Date	Result	Control	Result	Control	Result (million/ml)	Control (million/ml)	MDD (%)
10/26/2000	100	100	NA	NA			
10/24/2001	100	100	100	100			
11/28/2001	NA	NA	100	100			
12/26/2001	100	100	100	100			
1/30/2002	90	100	100	90			
2/27/2002	95	100	100	100			
4/30/2002	100	100	100	100			
5/29/2002	100	100	100	100			
6/19/2002	100	100	100	100			
8/28/2002	95	100	NA	NA			
9/25/2002	85	100	100	100			
11/20/2002	100	100	100	100			
1/28/2003	100	100	100	100	4.14**	3.28	N/A
Count	12	12	11	11	1	1	0

* 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

A4: 541STC512 – SJR @ Hills Ferry continued…

	Chronic Fathead Minnow - 7day					Chronic Ceriodaphnia Dubia - 6 day				
Date	Result (% Survival)	Control (% Survival)	Avg Dry Weight Result (mg)	Avg Dry Weight Control (mg)	Growth MDD (%)	Result (% Survival)	Control (% Survival)	Avg # Young / Adult Result	Avg # Young / Adult Control	Repro MDD (%)
3/11/2004	96.7	97.5	0.62	0.60	16	100.0	100.0	22.3	20	26
3/25/2004	85.7	97.5	0.55*	0.68	11	100.0	100.0	28.6	20.9	N/A
4/15/2004	100.0	97.5	0.68	0.59	7.2	100.0	100.0	14.0*	21.8	13
4/29/2004	90.0	100.0	0.46*	0.62	16	100.0	100.0	17.1*	20	11
5/13/2004	96.2	100.0	0.63	0.68	13	100.0	100.0	22.3	17.3	24
05/27/2004^	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6/10/2004	90.0	97.6	0.47*	0.58	13	100.0	100.0	25.3	25.2	12
6/24/2004	93.1	100.0	0.65	0.67	13	100.0	100.0	38.2	21.1	17
11/18/2004	92.9	100.0	0.56	0.46	16					
12/22/2004	85.7	95.2	0.51*	0.61	16					
1/20/2005	92.5	97.4	0.82	0.92	19					
2/17/2005	87.2	97.5	0.32*	0.38	14					
3/24/2005	97.4	97.5	0.55	0.41	8.1					
4/21/2005	N/A	N/A	N/A	N/A	N/A					
5/19/2005	87.5*	100.0	0.57	0.62	21					
6/23/2005	N/A	N/A	N/A	N/A	N/A					
9/22/2005	82.5*	97.5	0.31*	0.45	20					
Count	14	14	14	14	14	7	7	7	7	6

* 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

A5: 535STC504 – SJR @ Crows Landing

Station Code: 535STC504

Location: Latitude 37.43194, Longitude -121.01167

Date	Time	Temp (ºC)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
10/5/2000	11:40 AM	20.8	1000	7.7		
10/12/2000	9:35 AM	16.1	732	7.7		
10/19/2000	11:10 AM	17.2	463	7.4		
10/26/2000	12:30 PM	15.7	394	6.8		
11/2/2000	11:30 AM	15.3	533	6.6		
11/9/2000	12:25 PM	13.3	728	7.4		
11/16/2000	9:00 AM	10.1	817	7.3		
11/21/2000	9:40 AM	10.1	814	7.9		
11/30/2000	9:45 AM	9.0	858	7.8		
12/7/2000	12:05 PM	10.3	1050	7.8		
12/12/2000	12:20 PM	12.8	1100	8.2		
12/21/2000	10:10 AM	9.4	1150	7.8		
12/28/2000	9:16 AM	6.6	1190	7.9		
1/4/2001	11:53 AM	8.9	1280	7.6		
1/11/2001	9:37 AM	8.7	1120	7.5		
1/18/2001	12:20 PM	8.2	1270	8.1		
1/25/2001	9:47 AM	8.8	1410	7.8		
2/1/2001	9:40 AM	8.2	1380	7.4		
2/8/2001	12:40 PM	10.6	1540	7.6		
2/15/2001	10:00 AM	10.0	1290	7.4		
2/22/2001	10:56 AM	11.9	1540	7.8		
3/1/2001	11:30 AM	13.0	1250	7.7		
3/8/2001	11:52 AM	15.1	721	7.8		
3/15/2001	10:05 AM	15.8	1460	7.7		
3/22/2001	10:00 AM	19.4	1800	7.7		
3/29/2001	1:25 PM	22.2	1590	6.9		
4/5/2001	10:30 AM	15.0	1760	8.0		
4/12/2001	12:30 PM	15.2	1340	6.8		
4/19/2001	10:45 AM	17.3	1260	7.9		
4/26/2001	12:35 PM	22.3	576	8.0		
5/3/2001	12:10 PM	18.1	980	7.2		
5/10/2001	11:04 AM	21.1	593	7.7		
5/17/2001	10:05 AM	19.6	530	6.9		
5/24/2001	1:05 PM	26.2	1250	7.8		
5/31/2001	9:27 AM	28.4	1140	7.4		
6/7/2001	9:45 AM	22.5	1230	8.0	8.1	
6/14/2001	9:10 AM	21.0	1370	8.0	8.2	
6/21/2001	10:31 AM	26.3	1430	7.9	7.9	

A5: 535STC504 – SJR @ Crows Landing continued…

Date	Time	Temp (ºC)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
6/28/2001	10:01 AM	22.5	1250	7.8	6.7	
7/5/2001	11:42 AM	25.4	1470	7.8	7.2	
7/11/2001	9:35 AM	24.3	1370	7.6	7.8	
7/19/2001	9:59 AM	23.9	1400	7.9	10.5	
7/26/2001	11:05 AM	24.9	1320	7.9	9.2	
8/2/2001	12:34 PM	25.0	1260	8.0	9.0	
8/9/2001	11:17 AM	26.1	1390	8.1	8.2	
8/16/2001	12:27 PM	24.0	1320	8.1	9.5	
8/23/2001	11:44 AM	22.5	1130	8.0	8.7	
8/30/2001	12:31 PM	23.9	1450	8.1	9.6	
9/6/2001	11:37 AM	21.9	1470	7.9	7.9	
9/13/2001	1:10 PM	22.5	1330	7.9	9.5	
9/20/2001	8:35 AM	22.0	1270	7.8	6.8	
9/27/2001	9:16 AM	20.7	1100	7.8	6.9	
10/4/2001	10:32 AM	21.8	1340	7.7	7.5	
10/11/2001	11:48 AM	17.9	1180	7.7	7.5	
10/18/2001	11:46 AM	18.8	842	7.8	7.8	
10/25/2001	1:08 PM	15.7	610	8.0	9.6	
11/1/2001	12:20 PM	15.8	594	8.0	8.6	
11/8/2001	1:10 PM	15.0	742	8.3	9.9	
11/15/2001	10:39 AM	15.8	855	7.8	8.2	
11/20/2001	9:45 AM	14.2	965	7.8	8.5	
11/29/2001	11:10 AM	12.7	960	7.4	NA	
12/6/2001	11:47 AM	10.5	1010	7.8	10.9	
12/13/2001	11:26 AM	9.7	1170	7.6	10.7	
12/20/2001	9:06 AM	9.7	1240	7.9	10.6	
12/27/2001	10:56 AM	10.5	1180	7.8	11.0	
1/3/2002	12:07 PM	13.0	650	7.7	8.9	
1/10/2002	12:45 PM	12.5	1020	8.0	11.4	
1/17/2002	11:20 AM	8.7	1420	7.8	11.0	
1/24/2002	10:11 AM	7.6	1640	7.8	5.1	
1/31/2002	9:20 AM	7.2	1560	8.4	12.2	
2/7/2002	10:58 AM	10.6	1440	8.0	11.5	
2/14/2002	11:37 AM	12.0	1640	7.9	9.7	
2/21/2002	8:59 AM	14.3	1500	7.8	10.8	
2/28/2002	12:01 PM	15.6	1700	7.9	9.5	
3/7/2002	10:24 AM	15.3	1680	7.9	9.2	
3/14/2002	12:11 PM	13.7	1820	8.1	10.1	
3/21/2002	12:30 PM	15.6	1240	8.0	9.1	
3/28/2002	3:00 PM	18.8	1830	8.0	10.6	
4/4/2002	10:50 AM	19.1	1890	8.0	8.1	
4/11/2002	12:31 PM	19.6	1680	8.0	9.0	

A5: 535STC504 – SJR @ Crows Landing continued…

Date	Time	Temp (ºC)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
4/18/2002	10:10 AM	16.1	1380	8.0	9.0	
4/25/2002	9:09 AM	19.3	1120	7.9	8.0	
5/2/2002	10:17 AM	16.1	752	7.9	10.5	
5/9/2002	INA	INA	INA	INA	INA	
5/16/2002	NA	NA	NA	NA	NA	NA
5/23/2002	9:05 AM	18.0	1150	7.6	NA	
5/30/2002	10:46 AM	24.8	1330	7.9	8.6	
6/6/2002	10:24 AM	24.9	1290	7.9	6.5	
6/13/2002	9:34 AM	22.6	1450	7.8	NA	
6/20/2002	10:22 AM	24.1	1480	7.5	NA	
6/27/2002	11:42 AM	25.2	1320	8.2	9.7	
7/3/2002	8:39 AM	24.7	1430	8.1	NA	
7/11/2002	10:34 AM	26.7	1550	8.1	NA	
7/18/2002	11:42 AM	23.9	1440	8.2	9.7	55.0
7/25/2002	10:43 AM	23.8	1220	8.0	7.6	
7/30/2002	9:52 AM	23.5	1210	7.7	6.9	75.7
8/1/2002	11:27 AM	24.7	1240	8.0	8.5	
8/8/2002	11:43 AM	22.8	1400	8.1	10.5	
8/15/2002	10:51 AM	24.4	1630	8.1	8.5	
8/22/2002	11:04 AM	22.3	1270	7.9	8.3	
8/29/2002	10:23 AM	22.5	1370	8.0	NA	
9/5/2002	10:40 AM	21.7	1530	7.8	7.5	
9/12/2002	10:41 AM	22.1	1300	7.8	7.7	
9/19/2002	10:39 AM	21.5	1390	7.8	7.3	NA
9/26/2002	9:59 AM	21.1	1260	7.7	8.0	
10/3/2002	10:57 AM	15.2	1260	7.8	10.2	
10/10/2002	9:39 AM	20.0	1320	7.8	7.5	
10/17/2002	10:44 AM	16.8	890	7.9	8.4	55.4
10/24/2002	8:59 AM	15.0	563	7.5	8.6	
10/31/2002	11:57 AM	14.1	911	7.8	8.0	36.9
11/7/2002	11:08 AM	13.8	1090	7.7	9.1	
11/14/2002	11:22 AM	14.6	1000	7.6	8.5	
11/21/2002	9:58 AM	12.9	1160	7.7	8.9	36.2
11/26/2002	9:11 AM	12.1	1280	7.7	9.7	
12/5/2002	11:03 AM	10.8	1330	7.9	11.2	36.4
12/12/2002	10:26 AM	11.1	1370	7.4	11.7	
12/19/2002	10:48 AM	9.7	1130	7.8	NA	75.0
12/24/2002	9:01 AM	8.3	959	7.4	10.8	
1/2/2003	10:06 AM	9.7	1130	7.8	13.9	
1/9/2003	11:26 AM	10.1	1530	7.9	12.2	

A5: 535STC504 – SJR @ Crows Landing continued…

Date	Time	Temp (ºC)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
1/16/2003	9:49 AM	11.3	1330	7.7	9.3	53.0
1/23/2003	10:15 AM	11.2	1600	7.6	13.4	
1/30/2003	11:53 AM	13.1	1570	7.6	9.6	53.0
2/6/2003	8:39 AM	9.6	1650	7.8	10.3	
2/13/2003	9:58 AM	11.7	1730	7.7	9.8	39.1
2/20/2003	9:06 AM	11.4	1560	7.8	10.5	68.5
2/27/2003	10:26 AM	13.9	1570	7.8	8.9	
3/6/2003	1:17 PM	15.4	1700	7.8	12.2	NA
3/13/2003	11:45 AM	18.1	1710	8.0	9.4	54.7
3/20/2003	11:05 AM	15.9	1860	8.0	9.3	42.9
3/27/2003	11:08 AM	16.4	1640	7.9	9.2	54.8
4/3/2003	10:42 AM	15.6	1730	7.4	8.8	52.2
4/10/2003	11:48 AM	19.3	1770	8.0	10.1	40.5
4/17/2003	11:38 AM	16.2	1050	7.8	9.4	33.2
4/24/2003	11:56 AM	16.7	1080	7.9	9.9	29.1
5/1/2003	11:26 AM	17.7	1070	7.9	9.6	NA
5/8/2003	10:41 AM	15.9	580	7.5	8.0	28.0
5/15/2003	10:57 AM	19.3	1000	7.8	9.5	
5/22/2003	12:38 PM	23.7	1340	7.9	10.5	12.3
5/29/2003	11:12 AM	25.7	1350	7.8	8.4	
6/5/2003	12:34 PM	25.4	1370	8.0	8.9	73.7
6/12/2003	11:30 AM	22.6	1400	7.9	9.6	75.3
6/19/2003	12:21 PM	24.4	1540	8.2	7.2	74.6
6/26/2003	11:36 AM	24.7	1280	8.0	8.5	91.2
7/3/2003	11:06 AM	23.9	1390	8.1	13.4	
7/10/2003	11:12 AM	25.0	1370	8.1	10.0	
7/17/2003	11:10 AM	25.8	1360	8.0	8.1	
7/24/2003	11:13 AM	26.4	1350	7.9	7.4	273
7/31/2003	11:50 AM	25.3	1250	7.9	7.8	105
8/7/2003	11:11 AM	23.5	1230	8.2	9.2	73.5
8/14/2003	10:46 AM	23.2	1460	8.2	9.3	
8/21/2003	10:43 AM	24.3	1450	7.9	7.8	51.0
8/28/2003	11:15 AM	23.1	1300	7.9	8.3	75.0
9/4/2003	10:35 AM	24.6	1390	8.0	7.2	64.3
9/11/2003	1:35 PM	23.2	1310	8.0	9.4	41.2
9/18/2003	11:31 AM	19.3	1450	7.8	8.9	35.5
9/25/2003	12:12 PM	21.8	1180	8.0	8.9	46.1
10/2/2003	11:33 AM	20.2	1110	7.8	8.1	47.9
10/9/2003	11:21 AM	20.2	1060	7.7	8.6	53.8
10/16/2003	9:37 AM	16.9	1100	7.6	9.6	40.5

A5: 535STC504 – SJR @ Crows Landing continued…

Date	Time	Temp (ºC)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
10/23/2003	12:30 PM	18.4	634	7.7	9.1	43.5
10/30/2003	10:41 AM	16.5	983	7.7	7.8	30.0
11/6/2003	11:36 AM	13.6	960	7.8	10.6	36.2
11/13/2003	9:56 AM	13.2	1090	7.8	9.3	32.5
11/20/2003	11:15 AM	13.3	1090	7.9	9.9	NA
11/26/2003	10:08 AM	8.5	1180	7.9	10.9	20.7
12/4/2003	10:39 AM	12.3	1280	7.9	10.7	
12/11/2003	10:20 AM	11.5	1300	7.8	11.0	NA
12/18/2003	11:05 AM	9.2	1300	8.0	11.7	NA
12/23/2003	10:38 AM	11.2	1300	7.8	14.2	NA
12/30/2003	11:26 AM	8.6	1240	7.8	12.8	NA
1/8/2004	9:56 AM	9.0	1240	7.8	8.7	NA
1/15/2004	11:14 AM	10.0	1440	7.8	9.9	NA
1/22/2004	10:50 AM	9.4	1540	7.9	15.9	30.0
1/29/2004	11:40 AM	11.3	1550	7.9	10.9	NA
2/5/2004	10:28 AM	10.4	1310	7.7	14.6	53.2
2/12/2004	10:38 AM	10.8	1640	7.9	12.3	NA
2/19/2004	10:17 AM	12.9	1480	7.9	12.2	NA
2/26/2004	11:11 AM	12.0	1110	7.8	9.7	NA
3/4/2004	10:33 AM	12.4	1160	7.9	9.9	65.2
3/11/2004	11:26 AM	17.7	1520	7.9	8.2	NA
3/18/2004	9:47 AM	19.4	1840	7.9	10.3	
3/25/2004	12:09 PM	18.5	1710	8.0	9.1	44.5
4/1/2004	10:49 AM	16.7	1680	8.1	10.7	
4/8/2004	11:16 AM	18.5	1900	7.9	8.9	45.0
4/15/2004	12:08 PM	18.6	1270	7.9	9.7	43.2
4/22/2004	11:17 AM	16.9	1000	8.0	11.1	53.0
4/29/2004	1:15 PM	18.3	772	8.0	NA	29.7
5/6/2004	12:03 PM	18.9	494	7.9	11.1	35.2
5/13/2004	12:20 PM	18.2	581	7.8	12.5	34.1
5/20/2004	11:22 AM	20.8	1120	7.7	8.6	41.3
5/27/2004	11:22 AM	23.6	1290	8.0	NA	NA
6/3/2004	11:49 AM	24.0	1410	8.1	8.8	48.2
6/10/2004	12:52 PM	22.8	1520	8.3	11.9	67.4
6/17/2004	12:05 PM	25.3	1590	8.2	10.9	58.1
6/24/2004	11:53 AM	23.7	1480	8.1	9.3	NA
7/1/2004	11:07 AM	24.3	1580	8.0	10.9	NA
7/8/2004	11:07 AM	25.0	1490	8.0	9.5	NA
7/15/2004	11:53 AM	24.3	1520	8.3	12.1	NA
7/22/2004	9:11 AM	25.1	1320	8.0	8.9	NA
7/29/2004	11:21 AM	24.5	1590	8.2	10.3	NA
8/5/2004	10:57 AM	24.0	1310	8.1	9.0	NA

A5: 535STC504 – SJR @ Crows Landing continued…

Date	Time	Temp (ºC)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
8/12/2004	11:11 AM	25.5	1340	8.0	8.7	NA
8/19/2004	9:15 AM	24.9	1280	7.9	7.0	NA
8/26/2004	11:41 AM	23.8	1090	8.1	9.5	NA
9/2/2004	10:59 AM	23.4	1640	7.8	8.8	NA
9/9/2004	8:46 AM	23.1	1290	7.8	6.9	NA
9/16/2004	9:30 AM	21.2	1240	7.6	7.3	NA
9/23/2004	2:03 PM	21.4	1090	7.9	10.4	NA
9/30/2004	11:33 AM	19.8	1450	7.8	8.7	NA
10/7/2004	10:35 AM	19.9	1070	7.8	9.7	
10/14/2004	10:14 AM	18.5	990	7.6	8.0	
10/21/2004	11:39 AM	15.4	468	NA	8.1	
10/28/2004	11:01 AM	13.3	698	7.7	11.8	
11/4/2004	12:15 PM	13.3	1000	7.8	9.5	
11/11/2004	10:15 AM	14.5	1080	7.6	8.5	
11/18/2004	10:55 AM	13.8	991	7.7	8.7	
11/23/2004	9:06 AM	9.4	1100	7.8	10.4	
12/2/2004	11:43 AM	8.0	1310	7.8	12.0	
12/9/2004	10:35 AM	11.1	1270	7.7	10.8	
12/16/2004	11:21 AM	11.5	1060	7.7	10.3	
12/22/2004	9:52 AM	8.9	1330	7.9	13.2	
12/29/2004	8:53 AM	9.5	1340	7.8	10.0	
1/6/2005	9:40 AM	9.3	450	7.5	11.4	
1/13/2005	11:34 AM	9.5	399	7.4	8.8	
1/20/2005	11:36 AM	8.7	719	7.5	8.8	
1/27/2005	10:55 AM	11.0	1230	7.6	9.6	
2/3/2005	11:29 AM	10.7	1060	7.5	8.6	
2/10/2005	10:39 AM	12.5	1370	7.8	10.1	
2/17/2005	11:20 AM	14.1	1140	7.7	9.0	
2/24/2005	11:07 AM	14.9	926	7.4	8.7	
3/3/2005	10:18 AM	15.2	1040	7.7	9.1	
3/10/2005	12:22 PM	18.7	1430	7.8	9.1	
3/17/2005	10:08 AM	16.8	1800	7.7	13.7	
3/24/2005	11:33 AM	14.5	741	7.7	9.5	
3/31/2005	10:40 AM	13.1	393	7.5	10.4	
4/7/2005	11:21 AM	14.8	531	7.7	10.1	
4/14/2005	10:20 AM	13.7	553	7.7	11.4	
4/21/2005	11:25 AM	15.0	561	7.9	10.7	
4/28/2005	10:29 AM	15.7	579	7.5	12.9	
5/5/2005	11:19 AM	17.2	601	7.6	10.0	
5/12/2005	10:32 AM	16.8	378	7.5	9.9	

A5: 535STC504 – SJR @ Crows Landing continued…

Date	Time	Temp (ºC)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
5/19/2005	11:30 AM	17.7	205	7.4	8.6	
5/26/2005	11:25 AM	20.6	100	7.8	6.7	
6/2/2005	11:19 AM	19.7	133	7.5	8.0	
6/9/2005	9:46 AM	19.1	182	7.0	7.5	
6/16/2005	11:00 AM	21.2	414	7.3	8.3	
6/23/2005	12:10 PM	20.1	403	NA	9.0	
6/30/2005	12:05 PM	23.2	439	7.4	9.3	
7/7/2005	10:58 AM	22.3	559	7.5	9.5	
7/13/2005	9:02 AM	23.8	691	7.7	8.4	
7/21/2005	10:51 AM	24.7	787	7.7	8.3	
7/28/2005	12:27 PM	25.1	796	7.9	9.1	
8/4/2005	10:41 AM	24.5	778	7.7	8.1	
8/11/2005	12:12 PM	24.0	673	7.9	8.9	
8/18/2005	11:50 AM	22.6	621	7.9	8.5	
8/25/2005	11:06 AM	21.8	538	7.6	8.6	
9/1/2005	10:42 AM	22.5	822	7.8	10.2	
9/8/2005	11:00 AM	21.4	690	7.5	8.6	
9/15/2005	10:55 AM	18.8	474	7.6	9.6	
9/21/2005	9:06 AM	18.9	472	7.8	8.6	
9/22/2005	12:07 PM	20.5	496	7.6	9.2	
9/29/2005	10:49 AM	19.0	479	7.6	8.7	
Count		261	261	259	216	55
Min		6.6	100	6.6	5.1	12.3
Max		28.4	1900	8.4	15.9	273
Mean		17.5	1165	7.8	9.5	53.9
Geo Mean		16.5	1078	7.8	9.4	48.1
Median		17.7	1250	7.8	9.3	47.9
Quartile 1		12.9	965	7.7	8.5	36.3
Quartile 3		22.5	1430	7.9	10.4	61.2

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

A5: 535STC504 – SJR @ Crows Landing continued…

Date	TSS (mg/L)	TOC (mg/L)	Total Coli MPN	*E. coli* MPN
10/5/2000	49			
10/12/2000	66	6.5		
10/19/2000	NA	1.5		
10/26/2000	50	2.3		
11/2/2000	63	4.7		
11/9/2000	39	3.8		
11/16/2000	27	2.9		
11/21/2000	22	NA		
11/30/2000	28	2.4		
12/7/2000	35	1.6		
12/12/2000	30	1.7		
12/21/2000	NA	5.4		
12/28/2000	20	2.9		
1/4/2001	16	4.0		
1/11/2001	69	4.8		
1/18/2001	34	5.2		
1/25/2001	41	5.1		
2/1/2001	35	7.0		
2/8/2001	30	6.5		
2/15/2001	54	3.7		
2/22/2001	NA	2.5		
3/1/2001	63	8.1		
3/8/2001	91	9.5		
3/15/2001	65	8.1		
3/22/2001	40	2.0		
3/29/2001	54	<1		
4/5/2001	34	NA		
4/12/2001	40	6.5		
4/19/2001	47	5.8		
4/26/2001		2.8		
5/3/2001	51	4.6		
5/10/2001	53	3.5		
5/17/2001		2.6		
5/24/2001	64	5.3		
5/31/2001	37	8.3		
6/7/2001	52	8.6		
6/14/2001	61	10		
6/21/2001	NA	13		
6/28/2001	61	12		
7/5/2001		8.3		
7/11/2001		7.3		
7/19/2001		5.7		

A5: 535STC504 – SJR @ Crows Landing continued…

Date	TSS (mg/L)	TOC (mg/L)	Total Coli MPN	*E. coli* MPN
7/26/2001		6.3		
8/2/2001		6.2		
8/9/2001		8.4		
8/16/2001	52	13		
8/23/2001	62	9.5		
8/30/2001	56	12		
9/6/2001	38	14		
9/13/2001	38	12		
9/20/2001	NA	12		
9/27/2001	49	10		
10/4/2001	NA	15		
10/11/2001	44	15		
10/18/2001	64	13		
10/25/2001		8.4		
11/1/2001	34			
11/8/2001	26			
11/15/2001	37	5.8		
11/20/2001	36	NA		
11/29/2001	35	NA		
12/6/2001	42	4.4		
12/13/2001	19	2.3		
12/20/2001	23	5		
12/27/2001	24			
1/3/2002	80			
1/10/2002	51			
1/17/2002	22			
1/24/2002	21			
1/31/2002	18	NA		
2/7/2002	39	NA		
2/14/2002	29	NA		
2/18/2002	34			
2/21/2002	54			
2/28/2002	33	8.2		
3/7/2002	35			
3/7/2002	69	8.1		
3/8/2002	45			
3/9/2002	65			
3/11/2002	43			
3/14/2002	55	7.4		
3/21/2002	41	7.4		
3/28/2002	26	6.8		
4/4/2002	35	NA		
4/11/2002	35			

A5: 535STC504 – SJR @ Crows Landing continued…

Date	TSS (mg/L)	TOC (mg/L)	Total Coli MPN	*E. coli* MPN
4/18/2002	40	14		
4/25/2002	42	NA		
5/2/2002	51	1.6		
5/16/2002	38	NA		
5/23/2002	69	NA		
5/30/2002	NA	4.4		
6/6/2002	44	4.4		
6/13/2002	NA	NA		
6/20/2002	73	3.7		
6/27/2002	55	7.7		
7/30/2002			>2419.6	116
8/15/2002		3.2		
8/22/2002		3.8		
8/29/2002	67			
9/5/2002		4.2		
9/12/2002	55	NA		
9/19/2002	54	NA		
9/26/2002	49	NA		
10/3/2002	32	4.1		
10/10/2002	39	3.7		
10/17/2002	50	4.2		
10/24/2002	41	3		
10/31/2002	37	4.4		
11/7/2002	50	NA		
11/14/2002	45	6.1		
11/21/2002	38	5.6		
11/26/2002	30	5.3		
12/5/2002	28	4.4		
12/12/2002	43	3.5		
12/19/2002	95	5.7		
12/24/2002	61			
1/2/2003	NA			
1/9/2003	39			
1/16/2003	56		>2419.6	47
1/23/2003	44			
1/30/2003	50			
2/6/2003	43			
2/13/2003	35			
2/20/2003	91			
2/27/2003	78			

A5: 535STC504 – SJR @ Crows Landing continued…

Date	TSS (mg/L)	TOC (mg/L)	Total Coli MPN	*E. coli* MPN
3/6/2003	72			
3/13/2003	NA	8.2		
3/20/2003	NA	6.7		
3/27/2003	38	4.5		
4/3/2003	NA	NA		
4/10/2003	NA	3.8		
4/17/2003	36	4.9		
4/24/2003	31	4.6	>2419.6	291
5/1/2003	28	5.1		
5/8/2003	NA	3.6		
5/15/2003	42	4.5		
5/22/2003	34	4.2		
5/29/2003	62	5.9		
6/5/2003	58	7.1		
6/12/2003	65	4.9		
6/19/2003	61	5.7		
6/26/2003	61	5.7		
7/31/2003			>2419.6	91
8/28/2003			>2419.6	135
9/25/2003			>2419.6	144
10/30/2003			>2419.6	65
11/20/2003			>2419.6	68
1/29/2004			>2419.6	33
2/26/2004			>2419.6	816
3/11/2004		13		
3/18/2004		10		
3/25/2004			>2419.6	56
4/1/2004		9.2		
4/8/2004		9.1		
4/15/2004		6		
4/22/2004		5.5		
4/29/2004		4.4	>2419.6	152
5/6/2004		3.9		
5/13/2004		4.7		
5/20/2004		6.4		
5/27/2004		7.1	>2419.6	167
6/3/2004		8.2		
6/10/2004		8.9		
6/17/2004		9.1	>2419.6	107
6/24/2004			>2419.6	101
7/1/2004		9.4		
7/8/2004		8.9	>2419.6	122

A5: 535STC504 – SJR @ Crows Landing continued…

Date	TSS (mg/L)	TOC (mg/L)	Total Coli MPN	*E. coli* MPN
7/15/2004		10		
7/22/2004		7		
7/29/2004		8.2	>2419.6	68
8/5/2004		8.4		
8/12/2004		7.5	>2419.6	93
8/19/2004		8.1		
8/26/2004			>2419.6	61
9/16/2004			>2419.6	61
9/30/2004			>2419.6	30
10/14/2004			>2419.6	50
10/28/2004	54	7.1	>2419.6	130
11/4/2004	48	8.2	>2419.6	160
11/11/2004	49	8		
11/18/2004	60	7.5	>2419.6	75
11/23/2004	30	6.7		
12/2/2004	22	6.3		
12/9/2004	39	6.2	>2419.6	49
12/16/2004	48	7.7		
12/22/2004	27	6.3	>2419.6	56
12/29/2004	46	6.6		
1/6/2005	75	11	>2419.6	435
1/13/2005	64	13		
1/20/2005	33		2420	35
1/27/2005	48	7.9		
2/3/2005	42	12	>2419.6	99
2/10/2005	49	8.2		
2/17/2005	98	9.7	>2419.6	1300
2/24/2005	48	11		
3/3/2005	53	9.8		
3/10/2005	55	NA	>2419.6	55
3/17/2005	59	10		
3/24/2005	120	7.5	>2419.6	>2419.6
3/31/2005	25	5.8		
4/7/2005	32	5.2	2420	82
4/14/2005	36	NA		
4/21/2005	36	3.8	>2419.6	58
4/28/2005	42	NA		
5/5/2005	NA	4	>2419.6	816
5/12/2005	53	6.2		
5/19/2005	51	4.2	>2419.6	260

A5: 535STC504 – SJR @ Crows Landing continued…

Date	TSS (mg/L)	TOC (mg/L)	Total Coli MPN	*E. coli* MPN
5/26/2005	35	5.2		
6/2/2005	23	4.2		
6/9/2005	35	NA	>2419.6	31
6/16/2005	66	4.1		
6/23/2005	70	3.9	>2419.6	276
6/30/2005	66	3		
7/7/2005	64	3.3	>2419.6	88
7/13/2005	62	3.4		
7/21/2005	51	3.6	>2419.6	60
7/28/2005	51	3.7		
8/4/2005	38	3.8	>2419.6	66
8/11/2005	NA	3.6		
8/18/2005	57	3.2	>2419.6	93
8/25/2005	47	3.3		
9/1/2005	58	3.4	>2419.6	135
9/8/2005	43	3.4	>2419.6	111
9/15/2005	43	3		
9/21/2005			>2419.6	114
9/22/2005	38	NA		
9/29/2005	28	2.8		
Count	162	162	46	46
Min	16.0	0.5	2420	30
Max	120.0	15.0	2420	2420
Mean	46.9	6.3	NA	NA
Geo Mean	44.0	5.6	2420	111
Median	44.0	5.8	2420	93
Quartile 1	35.0	3.9	2420	60
Quartile 3	56.0	8.2	2420	142

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

A5: 535STC504 – SJR @ Crows Landing 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)
10/12/2000								2.2	3.9
10/26/2000	4.2		<2		0.1	<1	3.8	1.1	2
11/16/2000								1	1.6
11/30/2000	7.3		<2		0.1	<1	4.7	0.8	1.4
12/12/2000								1	1.6
12/28/2000	9		<2		<0.1	<1	6	0.8	1.4
1/11/2001								1.6	2.8
1/25/2001	8.6		<2		0.2	<1	7.9	1.6	2.9
2/8/2001	13		<2		0.3	<1	10	2.4	5.2
2/22/2001	16		<2		0.2	<1	8	1.4	2.9
3/15/2001	14		<2		0.3	<1	9.2	2.1	4.1
3/29/2001	11		<2		0.2	<1	8.3	2.2	4.1
4/19/2001	11		<2		0.2	<1	6.1	2.3	4.2
4/26/2001	6.4		<2	<1	0.1	<1	3.4	1.6	2.8
5/17/2001	4.8		<2		0.1	<1	3.5	1.4	2.4
5/31/2001	11		<1.0		0.2	NA	6	2.1	3.9
6/7/2001	15		<1.0		0.3	<1	6.3	3.6	5.5
6/14/2001	20		<2			<1	6.6	3	5.4
6/21/2001	15		<2		0.3	<1	8	4.1	6.6
6/28/2001	18		<2		0.3	<1	8.2	2.9	5.5
8/16/2001	18		<2		0.3	<1	6.4		
8/30/2001	14		<2		0.3	<1	7.4		
9/27/2001	8.5		<2		0.2	<1	6.6		
10/25/2001								0.9	2.1
11/29/2001	NA		NA		NA	0.1	7.3	1.1	2.1
12/13/2001								0.9	1.7
12/27/2001	NA		0.4		0.1	0.1	3.7	0.7	1.6
1/17/2002								0.7	1.5

A5: 535STC504 – SJR @ Crows Landing 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)
1/31/2002	NA		NA		0.2	NA	NA	1.5	2.3
2/14/2002	NA		0.8		0.1	0.1	6.6	1.6	2.8
2/28/2002	NA		NA		NA	0.1	NA	1.6	2.6
3/14/2002	NA		NA		NA	0.1	5.4	2.7	4.5
3/28/2002	NA		1.1		0.2	0.1	6		
4/11/2002	NA		0.6		0.2	0.1	6.3		
4/25/2002	NA		NA		0.2	NA	5.3	1.9	3.4
5/16/2002	NA		NA		NA	0.1	3.8	1.4	2.5
5/30/2002	NA		NA		NA	0.1	NA	3	4.9
6/13/2002	17		NA		0.2	<1.0	6.8	2.9	5.7
6/20/2002	NA		1.2		0.2	0.1	5.9	3.6	6.6
7/18/2002	23		<2.0		NA	0.1	7.6		
7/25/2002	11		<2.0		0.3	<1.0	7.3		
8/15/2002	11		<2.0		0.2	<1.0	7.7		
8/29/2002	NA		1.1		0.3	0.1	5.8	3.3	6.2
9/26/2002	NA		0.6		NA	0.1	6.8	1.9	3.3
10/31/2002								1.6	2.6
11/21/2002	NA		1.1		0.1	0.1	4.2	1.3	2.5
12/19/2002	NA		1.3		0.2	<0.03	5.5	3.1	4.7
1/30/2003	NA		0.5		0.1	0.1	3.7	1.4	2.3
2/27/2003	19		2.5		0.1	<1.0	8.6		
3/13/2003	15		3.0		0.4	<1.0	8.4		
3/27/2003	13		NA		0.3	<1.0	7.6		
4/10/2003	11		1.7		0.4	<1.0	7		
4/24/2003	8.7		<2.0		<0.1	<1.0	4.4		
5/15/2003	8.8		<2.0		<0.1	<1.0	5.6		
5/29/2003	9.2		<2.0		NA	<1.0	7		
6/12/2003	11		<2.0		0.3	<1.0	7.5		

A5: 535STC504 – SJR @ Crows Landing 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)
6/26/2003	14		<2.0		NA	<1.0	6.6		
7/17/2003	11		1.5		0.3	<1.0	7.5		
7/31/2003	16		NA		0.3	<1.0	7.6		
8/14/2003	8.8		1.6		0.3	<1.0	7.5		
8/28/2003	11		1.5		0.3	<1.0	8.1		
9/25/2003	12		1.4		0.2	<1.0	6.8		
10/30/2003	8.2		1.1		0.3	<1.0	5.8		
11/20/2003	7.5		<1.0		0.2	<1.0	6.8		
1/29/2004		2.1	0.8	0.1	0.2	0.1			
2/26/2004		2.8	1.5	NA	0.3	0.1			
3/11/2004		2.9	1.3	0.1	0.4	0.2			
3/25/2004		3.4	1	0.1	0.4	0.2			
4/15/2004		2.2	0.7	0	0.2	0.1			
4/29/2004		1.4	0.6	0.1	0.2	0.1			
5/13/2004		1.3	0.5	0.1	0.2	0.1			
6/10/2004		4.5	1.2	0	0.3	0.1			
6/24/2004		3.1	1.5	0.1	0.3	0.1			
7/15/2004		3.1	1.5	0.1	0.3	NA			
7/29/2004		4.2	1.5	NA	0.4	0.1			
8/12/2004		2.5	1.1	0.1	0.3	0.1			
8/26/2004		2.2	1.2	NA	0.3	<0.03			
9/16/2004		3.1	0.9	0.1	0.3	0.1			
9/30/2004		2.9	0.6	0.1	NA	0.1			
10/28/2004		1.5	0.9	NA	0.2	0.3			
11/23/2004		1.8	0.9	NA	0.2	0.1			
12/29/2004		1.5	0.8	0	0.2	0.1			
1/27/2005		2.7	1.0	0.2	0.4	0.2			
2/24/2005		1.8	1.1	0.1	0.4	0.3			
3/31/2005		0.7	0.6	0.1	0.2	0.1			

A5: 535STC504 – SJR @ Crows Landing 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)
4/28/2005		1.3	0.6	0.1	NA	0.1			
5/12/2005		0.9	NA	NA	0.2	0.1			
5/26/2005		0.2	0.5	0.1	0.2	0.1			
6/16/2005		NA	0.3	NA	NA	NA			
6/30/2005		1	0.5	0.1	0.2	0.1			
7/13/2005		1.2	0.6	NA	NA	0.1			
9/29/2005		1.5	0.5	NA	NA	0.1			
Count	39	27	73	17	69	79	53	40	40
Min	4.2	0.2	0.3	0.1	0.1	0.0	3.4	0.7	1.4
Max	23.0	4.5	3.0	0.5	0.4	0.5	10.0	4.1	6.6
Mean	12.1	2.1	1.0	0.1	0.2	0.3	6.5	1.9	3.4
Geo Mean	11.3	1.8	0.9	0.1	0.2	0.2	6.3	1.7	3.1
Median	11.0	2.1	1.0	0.1	0.2	0.2	6.6	1.6	2.9
Quartile 1	8.8	1.4	0.8	0.1	0.2	0.1	5.8	1.3	2.3
Quartile 3	15.0	2.9	1.1	0.1	0.3	0.5	7.6	2.5	4.6

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

A5: 535STC504 – SJR @ Crows Landing continued…

Date	Hardness (mg/L)	Total Arsenic (ug/L)	Total Cadmium (ug/L)	Total Chromium (ug/L)	Total Copper (ug/L)	Total Lead (ug/L)	Total Nickel (ug/L)	Total Zinc (ug/L)	Total Mercury (ug/L)
10/26/2000	91			2.3	2.7	<5	<5		
11/30/2000	180			1.6	1.9	<5	<5	3.6	
12/28/2000	240			1.3	1.9	<5	<5	<2	
1/25/2001	280			2.3	2.8	<5	<5	3.5	
2/22/2001	330			2.3	3.2	<5	<5	3.2	
3/29/2001	340			2.8	3.1	<5	<5	6.6	
4/26/2001	130			1.9	2.8	<5	<5	4.4	
5/31/2001	250			2.6	3.1	<5	<5	<2	
6/7/2001	280	3.2	<1	3.2	4	<5	<5	6.7	<0.2
6/14/2001	320	2.9	<1	2.5	3.3	<5	<5	5.1	<0.2
6/21/2001	NA	3.8	<1	2.4	2.9	<5	<5	4.6	<0.2
6/28/2001	310	5.1	<1	3.6	3.6	<5	5.5	5.9	<0.2
7/26/2001		NA	NA	43	3.5	<5	5.8	6.2	NA
8/30/2001	310	3.6	<1	3.3	2.5	<5	<5	3.5	
9/27/2001	230	4	<1	<1	1.5	<5	<5	<2	<0.2
10/25/2001	120	<4	<0.1	1.4	2.5	<5	<5	3.9	<0.2
11/29/2001	200	<4	<0.1	5.7	2.7	<5	6.5	10	<0.2
12/27/2001	230	<4	<0.1	3.7	3.8	<5	<5	6.4	<0.2
1/31/2002		<4.0	<0.1	<1.0	NA	<5.0	<5.0	<2.0	<0.2
2/28/2002	360	4.1	<0.1	1.8	3.4	<5.0	<5.0	3.5	<0.2
3/28/2002	380	<4.0	<0.1	1.3	2.8	<5.0	<5.0	4.7	<0.2
4/25/2002	240	<4.0	<0.1	<1.0	<1.0	<5.0	<5.0	<2.0	<0.2
5/30/2002	290	4.7	<0.1	4.7	4.3	<5.0	6.5	6.8	<0.2
6/20/2002	330	<4.0	<0.1	3.9	4.3	<5.0	5.9	5.3	<0.2
9/26/2002	280	7	<0.1	3.9	NA	<5.0	<5.0	4.6	<0.2
10/25/2002	300	<4.0	<0.1	2.7	6.4	<5.0	<5.0	4.2	<0.2
10/31/2002	200	<4.0	<0.1	1.8	2.6	<5.0	<5.0	3	<0.2
11/15/2002	240	<4.0	<0.1	1.9	2.8	<5.0	<5.0	4.8	<0.2
11/21/2002		<4.0	<0.1	1.5	1.8	<5.0	<5.0	3.4	<0.2
3/27/2003	340	4.7	NA	3.6	3.6	<5.0	<5.0	5	<0.2

A5: 535STC504 – SJR @ Crows Landing 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)
4/24/2003	230	<4.0	<0.1	NA	NA	NA	<5.0	2.2	<0.2
5/29/2003	300	<4.0	<0.1	2.6	4.8	<5.0	<5.0	4.4	<0.2
6/26/2003	290	4.1	<0.1	5.4	5	<5.0	7.5	8.5	<0.2
Count	29	24	23	32	30	32	33	32	23
Min	91.0	2.0	0.1	0.5	0.5	2.5	2.5	1.0	0.1
Max	380.0	7.0	0.5	43.0	6.4	2.5	7.5	10.0	0.1
Mean	262.8	3.1	0.2	3.8	3.1	2.5	3.2	4.3	0.1
Geo Mean	250.7	2.8	0.1	2.4	2.9	2.5	3.0	3.7	0.1
Median	280.0	2.0	0.1	2.5	3.0	2.5	2.5	4.4	0.1
Quartile 1	230.0	2.0	0.1	1.8	2.6	2.5	2.5	3.4	0.1
Quartile 3	310.0	4.0	0.3	3.6	3.6	2.5	2.5	5.5	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

A5: 535STC504 – SJR @ Crows Landing continued…

Date	Hardness (mg/L)	Dissolved Arsenic (ug/L)	Dissolved Cadmium (ug/L)	Dissolved Chromium (ug/L)	Dissolved Copper (ug/L)	Dissolved Lead (ug/L)	Dissolved Nickel (ug/L)	Dissolved Zinc (ug/L)	Dissolved Mercury (ug/L)
10/26/2000	91			<1	<1	<5	<5	<2	
11/30/2000	180			<1	<1	<5	<5	<2	
12/28/2000	240			<1	<1	<5	<5	<2	
1/25/2001	280			<1	<1	<5	<5	<2	
2/22/2001	330			<1	1.1	<5	<5	<2	
3/29/2001	340			<1	1.8	<5	<5	<2	
4/26/2001	130			<1	1.1	<5	<5	2.8	
5/31/2001	250			<1	1.2	<5	<5	<2	
6/7/2001	280	2.4	<1	<1	1.3	<5	<5	<2	<0.2
6/14/2001	320	2.8	<1	<1	1.4	<5	<5	<2	<0.2
6/21/2001	NA	3.2	<1	<1	<1	<5	<5	<2	<0.2
6/28/2001	310	<2	<1	<1	<1	<5	<5	<2	<0.2
7/26/2001		NA	NA	NA	NA	NA	NA	NA	NA
8/30/2001	310	2.8	<1	<1	1.4	<5	<5	2.5	
9/27/2001	230	<4	<1	<1	<1	<5	<5	<2	<0.2
10/25/2001	120	<4	<0.1	<1	<1	<5	<5	<2	<0.2
11/29/2001	200	<4	<0.1	<1	<1	<5	<5	3.2	<0.2
12/27/2001	230	<4	<0.1	<1	1.2	<5	<5	2.7	<0.2
1/31/2002		<4.0	<0.1	<1.0	NA	<5.0	<5.0	<2.0	<0.2
2/28/2002	360	<4.0	<0.1	<1.0	2.2	<5.0	<5.0	<2.0	<0.2
3/28/2002	380	<4.0	<0.1	<1.0	1.7	<5.0	<5.0	2.8	<0.2
4/25/2002	240	4.6	<0.1	<1.0	<1.0	<5.0	<5.0	NA	<0.2
5/30/2002	290	<4.0	<0.1	<1.0	1.8	<5.0	<5.0	4.8	<0.2
6/20/2002	330	<4.0	<0.1	<1.0	1.9	<5.0	<5.0	<2.0	<0.2
9/26/2002	280	4.3	<0.1	<1.0	<1.0	<5.0	<5.0	<2.0	<0.2
10/31/2002	200	<4.0	<0.1	<1.0	1.4	<5.0	<5.0	<2.0	<0.2
11/21/2002	240	<4.0	<0.1	<1.0	<1.0	<5.0	<5.0	<2.0	<0.2

A5: 535STC504 – SJR @ Crows Landing 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	24	18	18	26	25	26	26	25	17
Min	91.0	1.0	0.1	0.5	0.5	2.5	2.5	1.0	0.1
Max	380.0	4.6	0.5	0.5	2.2	2.5	2.5	4.8	0.1
Mean	256.7	2.4	0.2	0.5	1.0	2.5	2.5	1.5	0.1
Geo Mean	243.3	2.3	0.1	0.5	0.9	2.5	2.5	1.3	0.1
Median	265.0	2.0	0.1	0.5	1.1	2.5	2.5	1.0	0.1
Quartile 1	222.5	2.0	0.1	0.5	0.5	2.5	2.5	1.0	0.1
Quartile 3	312.5	2.7	0.5	0.5	1.4	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

A5: 535STC504 – SJR @ Crows Landing continued…

Date	Chloride (mg/L)	Sulfate (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	TDS (mg/L)	Carbonate (mg/L)	Bicarbonate (mg/L)	Total Alkalinity (mg/L)	Sodium (mg/L)
10/26/2000	49	49	20	10	220	<1	80	60	41
11/30/2000	100	120	38	20	520	<1	130	110	100
12/28/2000	160	180	51	29	670	<1	170	140	150
1/25/2001	180	220	57	33	760	<1	200	160	180
2/22/2001	210	280	71	37	940	<1	200	160	200
3/29/2001	200	280	71	39	860	<1	200	170	200
4/26/2001		94	28	14	350	<1	72	72	60
5/31/2001	150	190	53	28	680	<1	120	120	140
6/7/2001	160	210	62	31	720	<1	160	130	150
6/14/2001	160	280	70	34	840	<1	180	150	180
6/21/2001	180	270	70	34	920	<1	190	150	180
6/28/2001	160	230	68	33	740	<1	180	150	160
8/30/2001	180	250	67	34	880	<1	210	170	190
9/27/2001	NA	150	48	27	650	<1	NA	NA	140
10/25/2001	87	76	26	14	350	<1	110	NA	71
11/29/2001	140	140	40	23	580	<1	150	130	120
12/27/2001	170	180	46	29	690	<1.0	150	130	150
2/28/2002	NA	310	76	41	970	<1.0	211	173	240
3/28/2002	250	310	78	45	1100	<1.0	230	190	250
4/25/2002	160	200	52	27	640	<1.0	130	100	140
5/30/2002	160	230	63	32	810	<1.0	180	140	170
6/20/2002	190	290	74	36	NA	<1.0	190	160	200
9/26/2002	180	170	60	32	740	<1.0	210	170	170
10/31/2002	130	120	41	23	550	<1.0	150	120	120
11/21/2002	160	150	49	29	710	<1.0	180	150	140
3/27/2003	240	280	72	40					
4/24/2003	150	190	49	25					
5/29/2003	190	260	66	33					
6/26/2003	180	270	66	31					

A5: 535STC504 – SJR @ Crows Landing 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	26	29	29	29	24	25	24	23	25
Min	49.0	49.0	20.0	10.0	220.0	0.5	72.0	60.0	41.0
Max	250.0	310.0	78.0	45.0	1100.0	0.5	230.0	190.0	250.0
Mean	164.5	206.2	56.3	29.8	703.8	0.5	166.0	139.3	153.7
Geo Mean	157.6	190.2	53.6	28.4	666.5	0.5	159.8	135.0	143.3
Median	160.0	210.0	60.0	31.0	715.0	0.5	180.0	150.0	150.0
Quartile 1	152.5	150.0	48.0	27.0	625.0	0.5	145.0	125.0	140.0
Quartile 3	180.0	270.0	70.0	34.0	845.0	0.5	200.0	160.0	180.0

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

A5: 535STC504 – SJR @ Crows Landing continued…

	96h Acute Fathead Minnow (% Survival)		48h Acute Ceriodaphnia Dubia (% Survival)		Algae Cell Growth		
Date	Result	Control	Result	Control	Result (million/ml)	Control (million/ml)	MDD (%)
10/26/2000	100	100	NA	NA			
1/25/2001	95	100	100	100			
2/22/2001	100	100	100	100			
3/29/2001	90	100	100	100			
4/26/2001	90	100	100	90			
5/31/2001	80	90	100	100			
6/28/2001	75*	100	100	100			
10/25/2001	100	100	100	100			
11/29/2001	NA	NA	100	100			
12/27/2001	100	100	100	100			
1/31/2002	100	100	100	100			
2/28/2002	100	100	100	100			
4/25/2002	90	100	100	100			
5/30/2002	100	100	100	100			
6/20/2002	100	100	100	100			
8/29/2002	100	100	100	100			
9/26/2002	100	95	100	100			
10/31/2002	100	100	100	100			
11/21/2002	100	100	100	100			
12/19/2002	95	100	100	100	2.97	2.93	NA
1/30/2003	100	100	100	100	5.12**	3.07	NA
3/27/2003	100	100	100	100	5.26**	1.73	NA
5/29/2003	100	100	100	100	5.35**	2.03	2.1
Count	22	22	22	22	4	4	1

* 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

A5: 535STC504 – SJR @ Crows Landing continued…

	Chronic Fathead Minnow - 7day					Chronic Ceriodaphnia Dubia - 6 day				
Date	Result (% Survival)	Control (% Survival)	Avg Dry Weight Result (mg)	Avg Dry Weight Control (mg)	Growth MDD (%)	Result (% Survival)	Control (% Survival)	Avg # Young / Adult Result	Avg # Young / Adult Control	Repro MDD (%)
3/11/2004	79.3*	97.5	0.54	0.60	33	100.0	100.0	22.6	20	30
3/25/2004	96.7	97.5	0.64	0.68	11	100.0	100.0	27.2	20.9	N/A
4/15/2004	63.3*	97.5	0.41	0.59	31	100.0	100.0	20.6	21.8	15
4/29/2004	33.3*	100.0	0.14*	0.62	20	100.0	100.0	25.7	20	11
5/13/2004	90.3	100.0	0.57*	0.68	13	100.0	100.0	27.0	17.3	25
05/27/2004^	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6/10/2004	100.0	97.6	0.57	0.58	5	100.0	100.0	31.4	25.2	13
6/24/2004	93.3	100.0	0.65	0.67	13	100.0	100.0	33.6	21.1	21
11/18/2004	87.5*	100.0	0.48	0.45	22					
12/22/2004	76.2*	95.2	0.39	0.61	21					
1/20/2005	100.0	97.4	0.82	0.92	9.8					
2/17/2005	87.2	97.5	0.33	0.38	16					
3/24/2005	90.0	97.5	0.51	0.41	24					
4/21/2005	N/A	N/A	N/A	N/A	N/A					
5/19/2005	82.9*	100.0	0.56	0.62	22					
6/23/2005	N/A	N/A	N/A	N/A	N/A					
9/22/2005	81.6*	97.5	0.28*	0.45	24					
Count	14	14	14	14	14	7	7	7	7	6

* 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

A6: 541STC507 – SJR @ Patterson

Station Code: 541STC507

Location: Latitude 37.49778, Longitude -121.08167

Date	Time	Temp (ºC)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
10/5/2000	12:30 PM	21.5	1210	7.3		
10/12/2000	9:00 AM	16.5	802	7.5		
10/19/2000	11:30 AM	18.0	537	7.8		
10/26/2000	11:40 AM	15.6	419	7.4		
11/2/2000	11:48 AM	14.7	571	6.6		
11/9/2000	12:50 PM	13.6	781	7.7		
11/16/2000	8:55 AM	10.4	881	7.0		
11/21/2000	10:00 AM	10.4	879	7.7		
11/30/2000	8:50 AM	9.6	905	7.7		
12/12/2000	1:05 PM	13.4	1140	8.0		
12/21/2000	9:45 AM	9.4	1190	7.6		
12/28/2000	8:23 AM	6.9	1220	7.7		
1/4/2001	12:14 PM	9.2	1320	7.7		
1/11/2001	9:08 AM	8.7	982	7.5		
1/18/2001	12:43 PM	8.7	1280	6.8		
1/25/2001	8:49 AM	9.1	1440	7.7		
2/1/2001	9:20 AM	8.3	1370	7.1		
2/8/2001	1:35 PM	11.5	1570	7.8		
2/15/2001	9:29 AM	9.9	1320	7.4		
2/22/2001	9:55 AM	11.6	1520	7.6		
3/1/2001	11:50 AM	13.1	1210	7.7		
3/8/2001	12:38 PM	15.2	714	7.8		
3/15/2001	9:30 AM	15.7	1440	7.7		
3/22/2001	9:26 AM	19.2	1770	7.7		
3/29/2001	1:50 PM	20.9	1510	8.0		
4/5/2001	10:00 AM	15.3	1660	7.8		
4/12/2001	12:50 PM	16.0	1290	7.3		
4/19/2001	10:00 AM	17.2	1320	7.9		
4/26/2001	1:25 PM	21.9	603	7.9		
5/3/2001	1:00 PM	18.5	997	7.6		
5/10/2001	11:30 AM	22.6	684	7.7		
5/17/2001	9:25 AM	20.2	608	7.0		
5/24/2001	1:30 PM	26.6	1260	7.9		
5/31/2001	8:45 AM	24.6	1170	7.3		
6/7/2001	9:15 AM	23.0	1230	8.0	9.4	
6/14/2001	8:23 AM	21.3	1460	7.9	8.6	
6/21/2001	9:54 AM	26.5	1400	8.0	9.4	
6/28/2001	9:26 AM	23.1	1290	7.8	7.2	

A6: 541STC507 – SJR @ Patterson continued…

Date	Time	Temp (ºC)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
7/5/2001	12:07 PM	26.4	1230	7.9	7.9	
7/11/2001	9:10 AM	24.2	1230	7.8	9.7	
7/19/2001	9:27 AM	24.3	1370	7.9	12.8	
7/26/2001	12:00 PM	26.3	1230	8.2	11.9	
8/2/2001	1:37 PM	27.2	1210	8.3	11.5	
8/9/2001	12:20 PM	27.4	1350	8.4	12.3	
8/16/2001	12:48 PM	24.9	1130	8.2	10.5	
8/23/2001	12:34 PM	24.1	1240	7.8	10.5	
8/30/2001	12:54 PM	26.2	1460	8.3	11.5	
9/6/2001	12:34 PM	23.1	1350	8.2	10.9	
9/13/2001	1:24 PM	24.2	1200	8.1	11.5	
9/20/2001	8:16 AM	21.6	1260	7.7	7.0	
9/27/2001	8:52 AM	20.9	1220	7.8	7.3	
10/4/2001	11:26 AM	22.3	1330	7.8	8.5	
10/11/2001	12:12 PM	18.8	1190	7.8	7.9	
10/18/2001	2:50 PM	20.0	975	7.8	8.1	
10/25/2001	2:18 PM	16.4	670	7.7	8.8	
11/1/2001	12:42 PM	16.5	640	7.8	8.2	
11/8/2001	1:31 PM	15.9	871	8.2	10.0	
11/15/2001	11:54 AM	15.8	893	7.9	8.4	
11/20/2001	9:15 AM	14.4	991	7.7	8.4	
11/29/2001	11:35 AM	12.7	1010	7.5	NA	
12/6/2001	12:08 PM	10.9	1030	7.8	10.8	
12/13/2001	11:50 AM	10.2	1170	7.8	10.5	
12/20/2001	8:47 AM	9.8	1300	7.8	10.1	
12/27/2001	10:23 AM	10.6	1230	7.8	10.9	
1/3/2002	12:30 PM	13.1	582	7.6	9.0	
1/10/2002	1:05 PM	12.3	1030	7.8	9.3	
1/17/2002	11:39 AM	8.9	1430	7.7	11.0	
1/24/2002	9:15 AM	8.2	1620	7.7	NA	
1/31/2002	9:00 AM	7.7	1560	8.1	11.4	
2/7/2002	11:38 AM	11.2	1410	8.1	11.6	
2/14/2002	12:08 PM	12.9	1190	7.9	9.8	
2/21/2002	8:30 AM	14.3	1420	7.8	9.9	
2/28/2002	12:35 PM	16.5	1660	8.0	9.7	
3/7/2002	2:20 PM	15.9	1610	7.9	8.7	
3/14/2002	1:00 PM	14.3	1710	8.0	10.1	

A6: 541STC507 – SJR @ Patterson continued…

Date	Time	Temp (ºC)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
3/21/2002	1:10 PM	16.4	1640	7.6	8.9	
3/28/2002	3:31 PM	19.1	1690	8.0	11.1	
4/4/2002	11:29 AM	19.7	1820	8.1	8.8	
4/11/2002	1:07 PM	21.0	1580	7.9	9.5	
4/18/2002	10:39 AM	16.7	1270	7.9	9.1	
4/25/2002	8:29 AM	19.7	1130	7.8	7.9	
5/2/2002	11:02 AM	18.0	887	7.9	9.4	
5/9/2002	12:48 PM	18.9	661	8.3	10.0	
5/16/2002	12:20 PM	22.2	988	7.4	NA	NA
5/23/2002	9:15 AM	18.1	1120	7.6	NA	
5/30/2002	9:43 AM	25.0	1360	7.9	8.7	
6/6/2002	10:40 AM	25.7	1280	8.0	8.5	
6/13/2002	9:02 AM	22.7	1470	7.6	NA	
6/20/2002	10:44 AM	24.8	1530	8.5	NA	
6/27/2002	12:20 PM	25.8	1320	8.5	12.2	
7/3/2002	8:22 AM	25.1	1330	7.9	NA	
7/11/2002	10:05 AM	27.0	1480	8.3	NA	
7/18/2002	12:05 PM	25.9	1580	8.5	12.6	60.0
7/25/2002	11:04 AM	24.5	1170	8.1	9.2	
7/30/2002	10:22 AM	24.3	1420	7.9	8.9	72.4
8/1/2002	11:44 AM	25.8	1160	8.2	9.8	
8/8/2002	12:26 PM	24.8	1420	8.5	13.7	
8/15/2002	11:10 AM	25.3	1560	8.2	10.6	
8/22/2002	11:25 AM	23.4	1330	8.1	9.9	
8/29/2002	10:44 AM	23.1	1260	8.3	NA	
9/5/2002	10:57 AM	22.6	1520	8.1	NA	
9/12/2002	11:05 AM	23.2	1390	7.9	9.5	
9/19/2002	11:30 AM	23.0	1330	7.8	8.8	NA
9/26/2002	9:36 AM	21.4	1280	7.6	8.4	
10/3/2002	11:37 AM	16.8	1240	7.8	9.9	
10/10/2002	9:13 AM	20.3	1400	7.8	7.4	
10/17/2002	11:28 AM	17.7	1120	7.8	9.4	34.5
10/24/2002	8:41 AM	15.4	571	7.4	8.5	
10/31/2002	12:37 PM	14.8	960	7.8	8.4	31.8
11/7/2002	11:25 AM	14.1	1120	7.8	9.1	
11/14/2002	11:59 AM	15.0	1030	7.7	8.4	
11/21/2002	9:20 AM	13.1	1180	7.7	8.7	36.0
11/26/2002	8:41 AM	12.4	1280	7.8	9.6	

A6: 541STC507 – SJR @ Patterson continued…

Date	Time	Temp (ºC)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
12/5/2002	11:20 AM	11.3	1020	7.8	11.6	25.3
12/12/2002	11:13 AM	11.4	1380	7.5	11.5	
12/19/2002	11:09 AM	9.9	1110	7.9	NA	71.7
12/24/2002	8:40 AM	8.4	943	7.2	11.5	
1/2/2003	9:47 AM	9.9	1160	7.8	13.9	
1/9/2003	12:02 PM	10.4	1520	7.7	11.4	
1/16/2003	9:26 AM	11.5	1320	7.7	9.3	51.2
1/23/2003	10:42 AM	11.7	1600	7.6	14.6	
1/30/2003	12:19 PM	13.6	1620	7.7	9.6	40.2
2/6/2003	8:17 AM	9.7	1640	7.8	10.5	
2/13/2003	9:37 AM	11.9	1660	7.7	9.7	35.5
2/20/2003	8:38 AM	11.4	1570	7.8	11.4	68.2
2/27/2003	10:48 AM	14.4	1580	7.8	8.8	
3/6/2003	2:02 PM	16.0	1670	7.8	12.2	NA
3/13/2003	12:07 PM	18.4	1620	7.9	9.7	46.4
3/20/2003	11:47 AM	16.4	1780	8.0	9.8	41.8
3/27/2003	11:33 AM	17.0	1640	8.0	9.8	50.6
4/3/2003	9:35 AM	15.9	1640	7.5	9.0	37.3
4/10/2003	12:10 PM	20.5	1700	8.1	10.5	57.0
4/17/2003	12:52 PM	17.0	1050	7.8	9.3	40.5
4/24/2003	12:15 PM	17.2	1050	7.9	9.2	33.0
5/1/2003	12:13 PM	18.7	1090	7.9	10.5	NA
5/8/2003	11:13 AM	16.6	594	7.6	9.1	32.1
5/15/2003	11:49 AM	20.6	976	7.8	9.7	
5/22/2003	1:26 PM	25.0	1260	8.3	12.2	12.4
5/29/2003	12:00 PM	26.8	1330	7.9	10.0	
6/5/2003	1:38 PM	26.9	1350	8.1	10.6	52.6
6/12/2003	12:28 PM	24.7	1450	8.1	11.3	75.1
6/19/2003	1:03 PM	25.8	1480	8.4	8.1	65.1
6/26/2003	12:07 PM	25.6	1160	8.1	9.6	80.4
7/3/2003	11:25 AM	25.4	1270	8.5	11.2	
7/10/2003	11:42 AM	26.4	1350	8.6	12.1	
7/17/2003	11:40 AM	27.7	1330	8.2	9.9	
7/24/2003	11:45 AM	27.6	1350	8.1	9.5	170
7/31/2003	12:20 PM	26.2	1260	8.0	8.5	85.0
8/7/2003	11:46 AM	24.5	1170	8.5	11.9	49.0
8/14/2003	11:03 AM	23.7	1280	8.4	11.6	

A6: 541STC507 – SJR @ Patterson continued…

Date	Time	Temp (ºC)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
8/21/2003	11:19 AM	25.0	1410	8.3	11.4	39.0
8/28/2003	11:38 AM	24.0	1400	8.2	10.6	35.4
9/4/2003	11:01 AM	25.3	1390	8.1	9.4	46.1
9/11/2003	2:03 PM	24.5	1470	8.1	11.1	46.4
9/18/2003	12:18 PM	21.0	1390	7.9	9.9	27.3
9/25/2003	12:55 PM	23.0	1260	8.0	9.2	37.3
10/2/2003	12:20 PM	21.5	1160	7.9	9.3	29.0
10/9/2003	11:46 AM	21.0	1190	7.8	8.2	32.9
10/16/2003	9:12 AM	17.2	1150	7.6	10.2	12.4
10/23/2003	12:55 PM	19.4	710	7.7	8.5	50.9
10/30/2003	11:15 AM	17.6	1030	7.8	8.4	29.2
11/6/2003	12:03 PM	14.1	995	7.9	10.2	31.8
11/13/2003	10:23 AM	13.9	1130	7.9	9.2	30.0
11/20/2003	11:45 AM	14.3	1100	7.9	10.4	NA
11/26/2003	10:26 AM	9.2	1200	7.8	11.2	18.3
12/4/2003	10:55 AM	12.5	1300	7.9	10.8	
12/11/2003	10:36 AM	11.9	1300	7.8	11.3	NA
12/18/2003	11:21 AM	10.2	1310	8.0	11.6	NA
12/23/2003	11:08 AM	11.5	1330	7.9	13.4	NA
12/30/2003	11:44 AM	8.9	1240	7.9	12.9	NA
1/8/2004	10:29 AM	9.4	1230	7.9	8.6	NA
1/15/2004	11:31 AM	10.4	1420	7.8	10.3	NA
1/22/2004	11:51 AM	10.0	1530	7.9	16.3	30.1
1/29/2004	12:03 PM	12.0	1520	7.9	10.6	NA
2/5/2004	11:01 AM	11.3	1370	7.8	13.6	42.6
2/12/2004	10:54 AM	11.3	1590	7.8	12.8	NA
2/19/2004	10:45 AM	13.7	1460	7.9	12.1	NA
2/26/2004	11:32 AM	12.3	935	7.8	8.9	NA
3/4/2004	10:56 AM	12.9	1130	8.0	10.4	72.5
3/11/2004	11:48 AM	18.3	1460	8.0	9.2	NA
3/18/2004	10:11 AM	19.6	1730	8.0	10.5	
3/25/2004	12:34 PM	18.7	1600	8.1	9.5	38.6
4/1/2004	11:33 AM	17.3	1690	8.1	11.3	
4/8/2004	11:45 AM	19.6	1660	8.0	10.0	24.0
4/15/2004	12:43 PM	19.7	1330	8.0	10.1	31.6
4/22/2004	11:39 AM	17.7	1100	8.0	10.9	58.8
4/29/2004	1:45 PM	19.5	878	8.0	NA	31.5

A6: 541STC507 – SJR @ Patterson continued…

Date	Time	Temp (ºC)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
5/6/2004	12:29 PM	20.2	545	7.9	10.9	30.3
5/13/2004	12:45 PM	19.4	589	7.9	15.2	38.5
5/20/2004	11:43 AM	21.5	1180	7.8	9.1	70.5
5/27/2004	11:46 AM	24.5	1400	8.1	NA	NA
6/3/2004	12:13 PM	24.9	1590	8.3	11.3	42.5
6/10/2004	1:15 PM	24.7	1680	8.4	13.1	47.5
6/17/2004	12:29 PM	26.7	1740	8.5	13.8	51.1
6/24/2004	12:18 PM	25.3	1460	8.4	12.2	NA
7/1/2004	11:25 AM	25.4	1550	8.4	14.5	NA
7/8/2004	12:28 PM	27.2	1490	8.5	13.9	NA
7/15/2004	12:20 PM	26.3	1590	8.5	15.9	NA
7/22/2004	8:53 AM	25.5	1450	8.1	9.7	NA
7/29/2004	11:48 AM	26.2	1600	8.4	12.3	NA
8/5/2004	11:18 AM	25.1	1280	8.2	11.0	NA
8/12/2004	11:35 AM	26.5	1450	8.1	9.1	NA
8/19/2004	8:47 AM	24.7	1270	8.0	8.1	NA
8/26/2004	12:10 PM	24.2	1020	8.1	8.5	NA
9/2/2004	11:43 AM	24.6	1600	7.9	11.3	NA
9/9/2004	8:26 AM	23.3	1250	7.8	7.4	NA
9/16/2004	8:35 AM	21.1	1440	7.3	7.3	NA
9/23/2004	2:21 PM	23.2	1340	7.9	10.7	NA
9/30/2004	12:12 PM	21.3	1240	7.8	9.4	NA
10/7/2004	10:54 AM	20.8	1110	7.7	8.6	
10/14/2004	10:49 AM	19.0	1030	7.6	8.6	
10/21/2004	12:01 PM	16.1	552	NA	8.5	
10/28/2004	11:31 AM	13.7	692	7.7	12.0	
11/4/2004	12:32 PM	13.7	1030	7.9	10.3	
11/11/2004	10:56 AM	14.7	1040	7.7	8.7	
11/18/2004	11:33 AM	14.1	988	7.7	9.0	
11/23/2004	8:39 AM	9.9	1110	7.8	10.2	
12/2/2004	12:16 PM	8.9	1230	7.8	12.0	
12/9/2004	11:13 AM	11.7	1130	7.8	11.0	
12/16/2004	11:42 AM	11.9	1040	7.8	10.8	
12/22/2004	9:15 AM	9.1	1270	7.9	12.9	
12/29/2004	8:32 AM	9.9	1230	7.8	9.6	
1/6/2005	10:00 AM	9.3	483	7.5	11.7	

A6: 541STC507 – SJR @ Patterson continued…

Date	Time	Temp (ºC)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
1/13/2005	11:58 AM	9.7	424	7.5	9.8	
1/20/2005	12:16 PM	8.9	737	7.5	9.5	
1/27/2005	11:21 AM	11.3	1210	7.7	8.7	
2/3/2005	12:04 PM	11.6	1050	7.6	8.8	
2/10/2005	11:02 AM	12.9	1370	7.8	10.0	
2/17/2005	12:31 PM	14.3	1200	7.8	11.3	
2/24/2005	11:27 AM	15.1	973	7.5	8.8	
3/3/2005	10:55 AM	15.8	1060	7.7	9.4	
3/10/2005	12:43 PM	19.3	1410	7.9	9.5	
3/17/2005	11:16 AM	17.0	1790	7.7	14.4	
3/24/2005	12:04 PM	15.6	884	7.9	10.2	
3/31/2005	11:01 AM	13.8	413	7.6	10.3	
4/7/2005	11:44 AM	15.3	548	7.6	10.0	
4/14/2005	11:28 AM	14.2	571	7.8	10.7	
4/21/2005	11:58 AM	15.8	588	8.0	11.1	
4/28/2005	11:07 AM	16.2	611	7.1	13.0	
5/5/2005	11:53 AM	17.3	658	7.7	10.0	
5/12/2005	11:23 AM	17.8	463	7.8	10.0	
5/19/2005	11:58 AM	18.3	265	7.5	8.7	
5/26/2005	11:50 AM	21.3	157	7.6	7.3	
6/2/2005	11:43 AM	20.6	140	7.5	7.8	
6/9/2005	10:35 AM	19.4	210	7.2	7.7	
6/16/2005	11:45 AM	21.9	492	7.4	9.0	
6/23/2005	1:05 PM	21.2	466	NA	9.4	
6/30/2005	12:26 PM	24.4	536	7.6	9.5	
7/7/2005	11:30 AM	23.3	652	7.5	10.4	
7/13/2005	8:41 AM	24.4	797	7.7	8.9	
7/21/2005	12:00 PM	26.0	960	7.9	9.0	
7/28/2005	12:50 PM	26.3	948	8.0	9.6	
8/4/2005	11:09 AM	25.6	804	7.8	9.4	
8/11/2005	12:29 PM	25.7	887	8.0	9.2	
8/18/2005	12:26 PM	23.9	850	7.9	8.8	
8/25/2005	11:24 AM	22.9	682	7.7	8.6	
9/1/2005	11:16 AM	23.3	1070	7.8	11.4	
9/8/2005	11:20 AM	22.5	957	7.7	9.1	
9/15/2005	11:24 AM	19.7	675	7.6	9.6	
9/21/2005	9:31 AM	19.6	585	7.7	9.7	
9/22/2005	12:42 PM	21.7	683	7.6	9.2	

A6: 541STC507 – SJR @ Patterson continued…

Date	Time	Temp (ºC)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
9/29/2005	11:23 AM	20.2	618	7.6	8.7	

Count	262	262	260	215	55
Min	6.9	140	6.6	7.0	12.4
Max	27.7	1820	8.6	16.3	170
Mean	18.2	1176	7.8	10.2	46.0
Geo Mean	17.2	1110	7.8	10.0	41.5
Median	18.4	1230	7.8	9.8	40.2
Quartile 1	13.5	988	7.7	9.0	31.8
Quartile 3	23.3	1420	8.0	11.2	51.9

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

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

A6: 541STC507 – SJR @ Patterson continued…

Date	TSS (mg/L)	TOC (mg/L)	Total Coli MPN	*E. coli* MPN
10/5/2000	51			
10/12/2000	52	6.5		
10/19/2000		2.1		
10/26/2000	40	1.5		
11/2/2000	52	4.1		
11/9/2000	30	3.7		
11/16/2000	22	3.4		
11/21/2000	18			
11/30/2000	25	1.9		
12/7/2000	52	2.6		
12/12/2000	35	2.5		
12/21/2000	NA	3.9		
12/28/2000	18	2.5		
1/4/2001	14	4.7		
1/11/2001	170	5.3		
1/18/2001	24	5.9		
1/25/2001	33	8.8		
2/1/2001	34	6.4		
2/8/2001	25	6.6		
2/15/2001	54	3.7		
2/22/2001	NA	2.1		
3/1/2001	56	8.2		
3/8/2001	99	10		
3/15/2001	54	9.0		
3/22/2001	42	7.6		
3/29/2001	41	<1		
4/5/2001	27	NA		
4/12/2001	41	7.0		
4/19/2001	37	5.2		
4/26/2001		2.7		
5/3/2001	48	4.5		
5/10/2001	61	3.2		
5/17/2001		3.2		
5/24/2001	57	4.6		
5/31/2001	52	7.7		
6/7/2001	61	13		
6/14/2001	60	12		
6/21/2001	NA	11		
6/28/2001	56	11		
7/5/2001		6.2		
7/11/2001		5.6		

A6: 541STC507 – SJR @ Patterson continued…

Date	TSS (mg/L)	TOC (mg/L)	Total Coli MPN	*E. coli* MPN
7/19/2001		8.4		
7/26/2001		7.1		
8/2/2001		6.8		
8/9/2001		10		
8/16/2001	54	9.5		
8/23/2001	48	12		
8/30/2001	42	14		
9/6/2001	44	13		
9/13/2001	38	13		
9/20/2001	NA	14		
9/27/2001	34	14		
10/4/2001	NA	13		
10/11/2001	34	22		
10/18/2001	48	20		
10/25/2001		13		
11/1/2001	44			
11/8/2001	33			
11/15/2001	37	5.2		
11/20/2001	34	NA		
11/29/2001	34	NA		
12/6/2001	42	8.9		
12/13/2001	26	2.7		
12/20/2001	24	4.8		
12/27/2001	29			
1/3/2002	101			
1/10/2002	57			
1/17/2002	24			
1/24/2002	18			
1/31/2002	17	NA		
2/7/2002	38	NA		
2/14/2002	27	NA		
2/17/2002	35			
2/18/2002	39			
2/21/2002	50			
2/28/2002	39	7.8		
3/7/2002	28			
3/7/2002	35	8.3		
3/8/2002	44			

A6: 541STC507 – SJR @ Patterson continued…

Date	TSS (mg/L)	TOC (mg/L)	Total Coli MPN	*E. coli* MPN
3/9/2002	36			
3/11/2002	42			
3/14/2002	47	6.9		
3/21/2002	34	5.0		
3/28/2002	24	5.1		
4/4/2002	36	NA		
4/11/2002	74			
4/18/2002	40	5.9		
4/25/2002	56	NA		
5/2/2002	60	3.6		
5/9/2002	48	NA		
5/16/2002	53	NA		
5/23/2002	54	NA		
5/30/2002	NA	4.2		
6/6/2002	79	3.6		
6/13/2002	NA	NA		
6/20/2002	67	4.1		
6/27/2002	82	7.7		
7/30/2002			>2419.6	48
8/15/2002		4.2		
8/22/2002		3.8		
8/29/2002	47			
9/5/2002		3.7		
9/12/2002	43	NA		
9/19/2002	50	NA		
9/26/2002	37			
10/3/2002	21	3.8		
10/10/2002	30			
10/17/2002	33	4.1		
10/24/2002	38	3.0		
10/31/2002	29	3.9		
11/7/2002	50	NA		
11/14/2002	42	6.1		
11/21/2002	31	5.1		
11/26/2002	35	4.8		
12/5/2002	25	4.4		
12/12/2002	28	3.6		
12/19/2002	57	5.7		
1/16/2003	50		>2419.6	58

A6: 541STC507 – SJR @ Patterson continued…

Date	TSS (mg/L)	TOC (mg/L)	Total Coli MPN	*E. coli* MPN
3/13/2003	NA	7.8		
3/20/2003	NA	6.0		
3/27/2003	67	4.7		
4/3/2003	NA	NA		
4/10/2003	NA	3.7		
4/17/2003	38	4.5		
4/24/2003	45	4.7	>2419.6	179
5/1/2003	33	6.0		
5/8/2003	NA	4.2		
5/15/2003	53	4.1		
5/22/2003	36	4.3		
5/29/2003	65	6.2		
6/5/2003	63	8.1		
6/12/2003	93	5.3		
6/19/2003	69	5.5		
6/26/2003	71	5.8		
7/31/2003			>2419.6	96
8/28/2003			>2419.6	83
9/25/2003			>2419.6	104
10/30/2003			>2419.6	69
11/20/2003			>2419.6	73
1/29/2004			>2419.6	37
2/26/2004			>2419.6	>2419.6
3/11/2004		12		
3/18/2004		9.6		
3/25/2004			>2419.6	194
4/1/2004		9.3		
4/8/2004		8.2		
4/15/2004		5.9		
4/22/2004		5.8		
4/29/2004		4.8	>2419.6	160
5/6/2004		5.1		
5/13/2004		4.9		
5/20/2004		5.6		
5/27/2004		6.6	>2419.6	185
6/3/2004		9.1		
6/10/2004		9.6		
6/17/2004		11	>2419.6	117
6/24/2004			>2419.6	56
7/1/2004		12		

A6: 541STC507 – SJR @ Patterson continued…

Date	TSS (mg/L)	TOC (mg/L)	Total Coli MPN	*E. coli* MPN
7/8/2004		10	>2419.6	131
7/15/2004		9.9		
7/22/2004		9.3		
7/29/2004		9.5	>2419.6	88
8/5/2004		8.2		
8/12/2004		9.2	>2419.6	84
8/19/2004		7.2		
8/26/2004			>2419.6	108
9/16/2004			>2419.6	131
9/30/2004			>2419.6	140
10/14/2004			>2419.6	129
10/28/2004	40	5.4	>2419.6	147
11/4/2004	29	7.1	>2419.6	88
11/11/2004	38	7.4		
11/18/2004	52	7.2	>2419.6	179
11/23/2004	34	6.2		
12/2/2004	38	6.0		
12/9/2004	42	5.7	>2419.6	82
12/16/2004	44	7.2		
12/22/2004	35	6.2	>2419.6	59
12/29/2004	73	6.0		
1/6/2005	75	11	>2419.6	387
1/13/2005	66	9.8		
1/20/2005	36		>2419.6	24
1/27/2005	50	8.5		
2/3/2005	39	13	>2419.6	201
2/10/2005	48	7.0		
2/17/2005	92	9.8	>2419.6	>2419.6
2/24/2005	49	11		
3/3/2005	54	11		
3/10/2005	51	NA	>2419.6	56
3/17/2005	43	8.9		
3/24/2005	49	7.7	>2419.6	1120
3/31/2005	28	6.6		
4/7/2005	28	5.7	2420	67
4/14/2005	40	NA		
4/21/2005	35	4.3	>2419.6	31
4/28/2005	39	NA		
5/5/2005	NA	4.4	>2419.6	162

A6: 541STC507 – SJR @ Patterson continued…

Date	TSS (mg/L)	TOC (mg/L)	Total Coli MPN	*E. coli* MPN
5/12/2005	44	5.5		
5/19/2005	42	4.3	>2419.6	328
5/26/2005	31	4.6		
6/2/2005	20	4.3		
6/9/2005	30	NA	>2419.6	69
6/16/2005	60	4.1		
6/23/2005	69	4.3	>2419.6	105
6/30/2005	76	3.1		
7/7/2005	61	3.4	>2419.6	141
7/13/2005	57	3.1		
7/21/2005	70	3.8	>2419.6	131
7/28/2005	54	3.8		
8/4/2005	43	4.1	>2419.6	110
8/11/2005	52	3.5		
8/18/2005	81	3.5	>2419.6	548
8/25/2005	42	3.2		
9/1/2005	39	4.0	>2419.6	140
9/8/2005	40	4.1	>2419.6	108
9/15/2005	53	3.1		
9/21/2005			>2419.6	142
9/22/2005	34	NA		
9/29/2005	30	3.1		
Count	156	161	46	46
Min	14	0.5	2420	24
Max	170	22	2420	2420
Mean	46	6.6	NA	NA
Geo Mean	42	5.8	2420	129
Median	42	5.8	2420	114
Quartile 1	34	4.1	2420	75
Quartile 3	54	8.4	2420	162

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

A6: 541STC507 – SJR @ Patterson 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)
10/12/2000								3.3	7.2
10/26/2000	5		<2		0.2	<1	3.6	1.7	2.9
11/16/2000								1.3	2.7
11/30/2000	8.6		<2		0.3	<1	5.2	1.1	2.1
12/12/2000								1.8	3.5
12/28/2000	9.1		<2		0.2	<1	6.7	1.2	2.8
1/11/2001								4.1	6.5
1/25/2001	9		<2		0.4	<1	8.7	2.3	4.9
2/8/2001	13		<2		0.2	<1	8.4	1.9	3.5
2/22/2001	16		<2		0.2	<1	8.3	2.2	3.9
3/15/2001	15		<2		0.5	<1	9.2	2.4	4.6
3/29/2001	12		<2		0.3	<1	8.2	2.7	5.2
4/19/2001	11		<2		0.2	<1	6.4	2.1	4
4/26/2001	7.6		<2	<1	0.2	<1	4	2.4	4
5/17/2001	7.3		<2		0.2	<1	3.8	1.5	2.7
5/31/2001	13		<1.0		0.3	NA	6.1	2.4	4.6
6/7/2001	15		<1.0		0.3	<1	9.3	4.4	6.8
6/14/2001	17		<2			<1	7.3	3.5	6.4
6/21/2001	14		2.1		0.2	<1	9	5.7	10.4
6/28/2001	16		<2		0.3	<1	8	2.9	5.3
8/16/2001	18		<2		0.5	<1	6		
8/30/2001	18		<2		0.3	<1	7.5		
9/27/2001	15		<2		0.3	<1	7.6		
10/25/2001								1.2	3.1
11/29/2001	NA		NA		NA	0.1	7.4	1.2	2.2
12/13/2001								1.2	2.4
12/27/2001								1.5	3.3
1/17/2002								1.6	4.4

A6: 541STC507 – SJR @ Patterson 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)
1/31/2002								3.2	6.2
2/14/2002								2.6	4.9
2/28/2002								2.3	4.8
3/14/2002								4.3	7.1
4/25/2002								2.4	4.2
5/16/2002								2	3.5
5/30/2002								3.5	6.1
6/13/2002	15		NA		0.4	0.3	7.3	3.8	7.7
6/20/2002								5.8	11.2
8/29/2002								3.7	7.4
9/26/2002								2.1	3.9
10/31/2002								1.5	2.3
11/21/2002								1.4	2.8
12/19/2002								3	4.6
1/30/2003								1.5	2.3
Count	20	NA	19	1	19	20	21	40	40
Min	5.0	NA	0.5	0.5	0.2	0.1	3.6	1.1	2.1
Max	18.0	NA	2.1	0.5	0.5	0.5	9.3	5.8	11.2
Mean	12.7	NA	1.0	0.5	0.3	0.5	7.0	2.5	4.7
Geo Mean	12.1	NA	1.0	0.5	0.3	0.4	6.8	2.3	4.3
Median	13.5	NA	1.0	0.5	0.3	0.5	7.4	2.3	4.3
Quartile 1	9.1	NA	1.0	0.5	0.2	0.5	6.1	1.5	3.1
Quartile 3	15.3	NA	1.0	0.5	0.3	0.5	8.3	3.2	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

A6: 541STC507 – SJR @ Patterson continued…

Date	Hardness (mg/L)	Total Arsenic (ug/L)	Total Cadmium (ug/L)	Total Chromium (ug/L)	Total Copper (ug/L)	Total Lead (ug/L)	Total Nickel (ug/L)	Total Zinc (ug/L)	Total Mercury (ug/L)
10/26/2000				2	2.2	<5	<5		
11/30/2000	180			1.5	1.4	<5	<5	4.2	
12/28/2000	240			1.2	1.9	<5	<5	3.5	
1/25/2001	280			2.1	2.8	<5	<5	3.5	
2/22/2001	330			2.1	2.9	<5	<5	3.8	
3/29/2001	320			2.8	3.2	<5	4.2	3.9	
4/26/2001	140			2.3	3.6	<5	<5	8.4	
5/31/2001	260			2.7	3.3	<5	<5	5.2	
6/7/2001	280	3.2	<1	3.3	4.1	<5	5.5	6.8	<0.2
6/14/2001	330	3.1	<1	3.2	3.9	<5	5.5	10	<0.2
6/21/2001	NA	3.9	<1	3.1	3.6	<5	5.3	6.1	<0.2
6/28/2001	300	3.3	<1	3.5	3.6	<5	<5	6.0	<0.2
7/26/2001		NA	NA	3.5	3.1	<5	<5	6.2	NA
8/30/2001	310	3.5	<1	2.5	2.4	<5	<5	3.3	
9/27/2001	260	4.3	<1	<1	1.8	<5	<5	2.1	<0.2
10/25/2001	140	<4	<0.1	<1	1.4	<5	<5	<2	<0.2
11/29/2001	210	<4	<0.1	1.1	<1	<5	<5	3.8	<0.2
12/27/2001		<4	<0.1	3.8	4.0	<5	<5	8.5	<0.2
1/31/2002		<4.0	<0.1	<1.0	NA	<5.0	<5.0	<2.0	<0.2
2/28/2002		<4.0	<0.1	1.6	3.4	<5.0	<5.0	4.4	<0.2
3/28/2002		<4.0	<0.1	1.5	3.0	<5.0	7.1	5.0	<0.2
4/25/2002		<4.0	<0.1	<1.0	1.1	<5.0	<5.0	<2.0	<0.2
5/30/2002		<4.0	<0.1	3.1	3.2	<5.0	<5.0	5.8	<0.2
6/20/2002	310	5.5	<0.1	3.7	3.7	<5.0	<5.0	6.1	<0.2
9/26/2002	280	6.6	<0.1	2.9	NA	<5.0	<5.0	4.4	<0.2
10/31/2002	190	<4.0	<0.1	2	1.9	<5.0	<5.0	3.4	<0.2
11/21/2002	250	4.2	<0.1	3.4	4.3	<5.0	5.2	6.3	<0.2
3/27/2003	350	4.8	NA	3.8	3.6	<5.0	<5.0	6.1	<0.2
4/24/2003	220	<4.0	<0.1	NA	NA	NA	<5.0	4.2	<0.2
5/29/2003	290	4.2	<0.1	2.6	4.8	<5.0	<5.0	6.9	<0.2
6/26/2003	260	<4.0	<0.1	4.8	4.8	<5.0	6.9	8.7	<0.2

A6: 541STC507 – SJR @ Patterson continued…

Date	Hardness (mg/L)	Total Arsenic (ug/L)	Total Cadmium (ug/L)	Total Chromium (ug/L)	Total Copper (ug/L)	Total Lead (ug/L)	Total Nickel (ug/L)	Total Zinc (ug/L)	Total Mercury (ug/L)
Count	22	22	21	30	28	30	31	30	21
Min	140.0	2.0	0.1	0.5	0.5	2.5	2.5	1.0	0.1
Max	350.0	6.6	0.5	4.8	4.8	2.5	7.1	10.0	0.1
Mean	260.5	3.1	0.2	2.4	3.0	2.5	3.2	5.0	0.1
Geo Mean	252.9	2.9	0.1	2.0	2.7	2.5	3.0	4.3	0.1
Median	270.0	2.6	0.1	2.6	3.2	2.5	2.5	4.7	0.1
Quartile 1	225.0	2.0	0.1	1.5	2.1	2.5	2.5	3.6	0.1
Quartile 3	307.5	4.1	0.5	3.3	3.6	2.5	2.5	6.2	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

A6: 541STC507 – SJR @ Patterson continued…

Date	Hardness (mg/L)	Dissolved Arsenic (ug/L)	Dissolved Cadmium (ug/L)	Dissolved Chromium (ug/L)	Dissolved Copper (ug/L)	Dissolved Lead (ug/L)	Dissolved Nickel (ug/L)	Dissolved Zinc (ug/L)	Dissolved Mercury (ug/L)
10/26/2000				<1	<1	<5	<5	<2	
11/30/2000	180			<1	<1	<5	<5	<2	
12/28/2000	240			<1	<1	<5	<5	<2	
1/25/2001	280			<1	<1	<5	<5	<2	
2/22/2001	330			<1	1.0	<5	<5	<2	
3/29/2001	320			<1	1.8	<5	<5	<2	
4/26/2001	140			<1	1.4	<5	<5	3.2	
5/31/2001	260			<1	<1	<5	<5	<2	
6/7/2001	280	2.2	<1	<1	1.5	<5	<5	2.6	<0.2
6/14/2001	330	2.7	<1	<1	1.3	<5	<5	<2	<0.2
6/21/2001	NA	3.3	<1	<1	<1	<5	<5	<2	<0.2
6/28/2001	300	3.3	<1	<1	<1	<5	2.7	<2	<0.2
7/26/2001		NA	NA	NA	NA	NA	NA	NA	NA
8/30/2001	310	2.7	<1	<1	1.2	<5	<5	<2	
9/27/2001	260	<4	<1	<1	1.1	<5	<5	<2	<0.2
10/25/2001	140	<4	<0.1	<1	1.4	<5	<5	2.4	<0.2
11/29/2001	210	<4	<0.1	<1	<1	<5	<5	2.4	<0.2
12/27/2001		<4	<0.1	<1	1.0	<5	<5	2.4	<0.2
1/31/2002		<4.0	<0.1	<1.0	NA	<5.0	<5.0	3	<0.2
2/28/2002		<4.0	<0.1	<1.0	4.6	<5.0	<5.0	<2.0	<0.2
3/28/2002		<4.0	<0.1	<1.0	2.0	<5.0	8.2	4.2	<0.2
4/25/2002		4.3	<0.1	<1.0	1.1	<5.0	<5.0	NA	<0.2
5/30/2002		<4.0	<0.1	<1.0	2.2	<5.0	<5.0	<2.0	<0.2
6/20/2002	310	<4.0	<0.1	<1.0	2.3	<5.0	<5.0	2.4	<0.2
9/26/2002	280	5.4	<0.1	<1.0	3.8	<5.0	<5.0	<2.0	<0.2
10/31/2002	190	<4.0	<0.1	<1.0	1.5	<5.0	<5.0	<2.0	<0.2
11/21/2002	250	<4.0	<0.1	<1.0	<1.0	<5.0	<5.0	<2.0	<0.2

A6: 541STC507 – SJR @ Patterson 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	18	18	18	26	25	26	26	25	17
Min	140.0	2.0	0.1	0.5	0.5	2.5	2.5	1.0	0.1
Max	330.0	5.4	0.5	0.5	4.6	2.5	8.2	4.2	0.1
Mean	256.1	2.6	0.2	0.5	1.3	2.5	2.7	1.6	0.1
Geo Mean	248.0	2.4	0.1	0.5	1.1	2.5	2.6	1.4	0.1
Median	270.0	2.0	0.1	0.5	1.1	2.5	2.5	1.0	0.1
Quartile 1	217.5	2.0	0.1	0.5	0.5	2.5	2.5	1.0	0.1
Quartile 3	307.5	2.7	0.5	0.5	1.5	2.5	2.5	2.4	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

A6: 541STC507 – SJR @ Patterson continued…

Date	Chloride (mg/L)	Sulfate (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	TDS (mg/L)	Carbonate (mg/L)	Bicarbonate (mg/L)	Total Alkalinity (mg/L)	Sodium (mg/L)
11/30/2000	110	120	41	21	550	<1	140	120	110
12/28/2000	160	170	51	28	700	<1	180	150	150
1/25/2001	180	220	59	34	810	<1	210	170	190
2/22/2001	180	250	70	36	930	<1	200	160	200
3/29/2001	170	230	69	37	1100	<1	190	150	190
4/26/2001		95	30	15	400	<1	80	80	62
5/31/2001	140	180	57	28	700	<1	140	140	140
6/7/2001	150	200	62	31	710	<1	170	140	150
6/14/2001	190	260	74	36	890	<1	190	160	190
6/21/2001	180	240	69	33	890	<1	200	160	180
6/28/2001	160	220	67	33	780	<1	180	140	160
8/30/2001	190	210	73	34	870	<1	220	180	180
9/27/2001	NA	160	56	29	750	<1	NA	NA	160
10/25/2001	95	78	30	15	390	<1	110	NA	78
11/29/2001	150	140	42	24	610	<1	160	130	130
3/27/2003	240	280	72	41					
4/24/2003	140	180	47	25					
5/29/2003	190	230	65	31					
6/26/2003	140	200	59	28					
Count	17	19	19	19	15	15	14	13	15
Min	95	78	30	15	390	0.5	80	80	62
Max	240	280	74	41	1100	0.5	220	180	200
Mean	160	190	58	29	740	0.5	170	150	150
Geo Mean	160	180	56	28	710	0.5	160	140	140
Median	160	200	59	31	750	0.5	180	150	160
Quartile 1	140	170	49	27	660	0.5	150	140	140
Quartile 3	180	230	69	34	880	0.5	200	160	190

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

A6: 541STC507 – SJR @ Patterson continued…

	96h Acute Fathead Minnow (% Survival)		48h Acute Ceriodaphnia Dubia (% Survival)		Algae Cell Growth		
Date	Result	Control	Result	Control	Result (million/ml)	Control (million/ml)	MDD (%)
11/18/2004					3.47**	1.79	15.0
12/22/2004					5.28**	1.95	N/A
1/20/2005					5.04**	1.92	18.0
2/17/2005					4.95**	1.78	43.0
3/24/2005					N/A	N/A	N/A
4/21/2005					3.53**	1.63	4.0
5/19/2005					2.63	1.94	4.3
6/23/2005					N/A	N/A	N/A
7/21/2005					3.52**	1.72	25.0
8/18/2005					3.79**	1.76	32.0
9/22/2005					4.35	1.72	N/A
Count	0	0	0	0	9	9	7

* 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

A6: 541STC507 – SJR @ Patterson continued…

	Chronic Fathead Minnow - 7day					Chronic Ceriodaphnia Dubia - 6 day				
Date	Result (% Survival)	Control (% Survival)	Avg Dry Weight Result (mg)	Avg Dry Weight Control (mg)	Growth MDD (%)	Result (% Survival)	Control (% Survival)	Avg # Young / Adult Result	Avg # Young / Adult Control	Repro MDD (%)
11/18/2004	85.7*	100.0	0.48	0.46	32	100.0	100.0	18.3	18.4	12
12/22/2004	92.9	95.2	0.51	0.61	N/A	100.0	100.0	24.0	24.7	N/A
1/20/2005	95.0	97.4	0.83	0.92	16	100.0	100.0	25.4	15.9	25
2/17/2005	90.2	97.5	0.39	0.38	14	100.0	100.0	22.9*	28.8	9.2
3/24/2005	95.1	97.5	0.52	0.41	7.3	100.0	100.0	14.9	18.3	19
4/21/2005	N/A	N/A	N/A	N/A	N/A	100.0	100.0	9.5*	19.4	15
5/19/2005	77.5*	100.0	0.53	0.62	17	100.0	100.0	16.7*	20.50	15
6/23/2005	N/A	N/A	N/A	N/A	N/A	100.0	100.0	24.7	20.90	10
7/21/2005	97.5	100.0	0.65	0.62	5.3	100.0	100.0	28.5	22.1	11
8/18/2005	N/A	N/A	N/A	N/A	N/A	100.0	100.0	29.4	21.5	18
9/22/2005	92.5	97.5	0.37*	0.5	13.0	100.0	90.0	13.6*	19.9	14
Count	8	8	8	8	7	11	11	11	11	10

* 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

A7: 541STC510 – SJR @ Maze

Station Code: 541STC510

Location: Latitude 37.64194, Longitude -121.22778

Date	Time	Temp (ºC)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
10/5/2000	1:30 PM	20.9	498	7.9		
10/12/2000	8:15 AM	15.6	443	7.7		
10/19/2000	12:15 PM	19.2	437	7.7		
10/26/2000	9:55 AM	16.0	371	7.6		
11/2/2000	12:40 PM	15.0	515	7.2		
11/9/2000	1:35 PM	13.7	676	7.7		
11/16/2000	8:00 AM	10.5	739	6.9		
11/21/2000	10:30 AM	11.1	752	7.7		
11/30/2000	8:03 AM	9.9	758	7.7		
12/7/2000	1:20 PM	12.1	865	7.8		
12/12/2000	1:45 PM	13.1	919	8.0		
12/21/2000	9:15 AM	9.6	933	7.6		
12/28/2000	7:53 AM	7.4	930	7.6		
1/4/2001	12:53 PM	9.9	933	7.7		
1/11/2001	8:37 AM	9.3	843	7.2		
1/18/2001	2:03 PM	10.0	971	7.3		
1/25/2001	8:14 AM	9.3	1080	7.6		
2/1/2001	8:51 AM	8.6	1050	6.8		
2/8/2001	11:00 AM	11.6	1170	7.8		
2/15/2001	8:55 AM	9.9	801	7.4		
2/22/2001	9:15 AM	11.0	725	7.6		
3/1/2001	1:10 PM	14.0	549	7.8		
3/8/2001	1:45 PM	15.4	511	7.8		
3/15/2001	8:55 AM	15.1	1060	7.6		
3/22/2001	8:50 AM	18.9	1300	7.6		
3/29/2001	2:46 PM	20.9	1150	8.0		
4/5/2001	9:11 AM	15.4	1130	7.3		
4/12/2001	1:37 PM	16.1	923	7.6		
4/19/2001	9:30 AM	16.5	999	7.9		
4/26/2001	2:30 PM	22.5	476	7.9		
5/3/2001	2:10 PM	19.5	463	7.5		
5/10/2001	12:10 PM	21.6	476	7.7		
5/17/2001	8:40 AM	20.1	433	7.0		
5/24/2001	2:40 PM	27.5	982	7.7		
5/31/2001	8:12 AM	24.2	929	7.3		
6/7/2001	8:30 AM	22.9	997	8.1	8.8	
6/14/2001	INA	INA	INA	INA	INA	
6/21/2001	9:04 AM	25.9	1140	8.3	10.3	

A7: 541STC510 – SJR @ Maze continued…

Date	Time	Temp (ºC)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
6/28/2001	8:42 AM	22.6	1060	7.9	7.4	
7/5/2001	12:43 PM	27.0	681	8.2	10.1	
7/11/2001	8:30 AM	23.9	1020	7.9	8.7	
7/19/2001	8:42 AM	23.9	988	7.9	10.5	
7/26/2001	12:49 PM	26.3	923	8.5	13.1	
8/2/2001	2:16 PM	26.2	947	8.5	12.1	
8/9/2001	1:36 PM	27.4	953	8.5	11.1	
8/16/2001	1:57 PM	25.4	882	8.5	12.1	
8/23/2001	1:51 PM	24.0	887	8.2	10.7	
8/30/2001	1:58 PM	25.6	964	8.4	11.1	
9/6/2001	1:25 PM	23.1	898	8.5	11.1	
9/13/2001	2:30 PM	23.3	963	8.2	11.0	
9/20/2001	7:47 AM	22.0	847	7.7	6.5	
9/27/2001	8:08 AM	21.0	925	7.9	6.9	
10/4/2001	12:12 PM	22.5	928	8.0	9.9	
10/11/2001	12:58 PM	18.9	849	7.8	8.3	
10/18/2001	2:12 PM	19.7	884	7.8	8.7	
10/25/2001	3:02 PM	16.4	559	7.8	9.1	
11/1/2001	1:49 PM	16.7	594	7.9	8.4	
11/8/2001	2:06 PM	15.3	755	8.3	10.3	
11/15/2001	11:42 AM	16.0	766	8.0	8.7	
11/20/2001	8:28 AM	14.5	880	7.7	8.3	
11/29/2001	12:45 PM	13.0	907	7.5	NA	
12/6/2001	1:00 PM	11.1	917	7.8	10.7	
12/13/2001	1:09 PM	10.4	1020	7.8	10.5	
12/20/2001	8:13 AM	9.8	1100	7.8	10.0	
12/27/2001	9:49 AM	10.9	1040	7.9	10.8	
1/3/2002	1:39 PM	12.9	449	7.6	9.1	
1/10/2002	1:57 PM	12.9	849	7.2	11.1	
1/17/2002	12:37 PM	9.0	1160	7.8	10.8	
1/24/2002	8:37 AM	8.2	1310	7.5	14.4	
1/31/2002	8:15 AM	7.9	1240	8.3	11.7	
2/7/2002	12:33 PM	11.5	1290	7.9	11.7	
2/14/2002	1:28 PM	13.3	1310	7.9	10.3	
2/21/2002	7:59 AM	14.6	1250	7.7	9.6	
2/28/2002	1:49 PM	16.2	1370	8.0	9.4	
3/7/2002	12:05 PM	15.7	1380	7.9	9.5	
3/14/2002	1:31 PM	14.0	1290	8.0	10.8	
3/21/2002	2:12 PM	16.1	1260	7.9	8.7	
3/28/2002	4:05 PM	18.7	1300	8.3	10.7	
4/4/2002	11:57 AM	19.5	1230	8.1	9.2	
4/11/2002	2:38 PM	20.5	1110	8.0	10.0	

A7: 541STC510 – SJR @ Maze continued…

Date	Time	Temp (ºC)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
4/18/2002	11:13 AM	14.9	645	8.0	9.8	
4/25/2002	7:53 AM	18.3	550	7.7	8.6	
5/2/2002	12:03 PM	16.6	481	8.0	10.4	
5/9/2002	INA	INA	INA	INA	INA	
5/16/2002	1:30 PM	23.0	691	7.5	NA	NA
5/23/2002	10:05 AM	19.2	812	7.6	NA	
5/30/2002	8:50 AM	24.7	903	7.8	8.3	
6/6/2002	11:25 AM	25.6	893	8.3	8.4	
6/13/2002	8:23 AM	22.1	1070	7.5	NA	
6/20/2002	11:57 AM	25.5	1200	8.6	NA	
6/27/2002	1:06 PM	25.2	1020	8.9	15.2	
7/3/2002	7:53 AM	24.4	954	8.0	NA	
7/11/2002	8:41 AM	26.6	1060	8.4	NA	
7/18/2002	1:13 PM	25.4	1030	8.7	13.8	52.4
7/25/2002	12:00 PM	24.5	993	8.5	11.3	
7/31/2002	8:52 AM	24.1	1010	7.7	7.9	77.7
8/1/2002	12:38 PM	25.7	909	8.4	10.5	
8/8/2002	1:39 PM	24.3	988	8.7	15.0	
8/15/2002	11:51 AM	25.1	1030	8.5	12.0	
8/22/2002	12:28 PM	23.4	997	8.5	12.2	
8/29/2002	11:45 AM	23.9	922	8.7	NA	
9/5/2002	11:52 AM	22.1	1040	8.6	NA	
9/12/2002	11:47 AM	23.1	965	8.5	13.0	
9/19/2002	12:46 PM	23.0	1030	8.1	10.8	NA
9/26/2002	9:00 AM	21.6	880	7.3	8.5	
10/3/2002	12:37 PM	16.8	974	7.9	10.4	
10/10/2002	8:39 AM	20.3	968	7.9	7.8	
10/17/2002	12:04 PM	17.6	948	8.0	9.3	17.9
10/24/2002	8:07 AM	15.6	469	7.3	8.6	
10/31/2002	1:44 PM	14.6	755	7.9	8.5	27.3
11/7/2002	12:33 PM	13.8	902	7.8	9.0	
11/14/2002	12:44 PM	15.1	910	7.7	8.7	
11/21/2002	8:48 AM	13.2	1010	7.7	8.8	31.5
11/26/2002	8:07 AM	12.5	1070	7.8	9.6	
12/5/2002	12:00 PM	11.6	1050	7.9	11.1	22.5
12/12/2002	12:15 PM	11.5	1130	7.6	10.8	
12/19/2002	11:54 AM	9.8	793	8.0	NA	69.9
12/24/2002	8:12 AM	8.4	785	6.7	11.7	
1/2/2003	9:13 AM	10.1	1020	7.8	14.0	
1/9/2003	12:59 PM	10.6	1250	7.8	12.3	
1/16/2003	8:51 AM	11.6	1090	7.7	9.4	48.6
1/23/2003	11:43 AM	12.0	1320	7.7	10.4	
1/30/2003	1:20 PM	13.6	1320	7.8	9.9	36.7

A7: 541STC510 – SJR @ Maze continued…

Date	Time	Temp (ºC)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
2/6/2003	7:49 AM	9.8	1360	7.8	10.7	
2/13/2003	9:02 AM	11.9	1400	7.7	9.8	48.6
2/20/2003	8:03 AM	11.6	1310	7.7	11.1	40.6
2/27/2003	11:46 AM	14.5	1290	7.8	8.7	
3/6/2003	2:43 PM	15.8	1390	7.8	11.9	NA
3/13/2003	12:50 PM	18.1	1260	7.8	9.4	46.8
3/20/2003	12:22 PM	16.4	1410	7.9	9.5	53.3
3/27/2003	12:06 PM	17.2	1310	8.0	9.7	43.8
4/3/2003	8:56 AM	15.7	1260	7.2	8.6	47.5
4/10/2003	12:55 PM	20.6	1280	8.1	10.0	49.0
4/17/2003	1:42 PM	15.8	546	7.9	9.7	33.7
4/24/2003	1:15 PM	15.7	525	8.2	9.8	30.4
5/1/2003	12:52 PM	18.0	693	7.9	10.3	NA
5/8/2003	12:01 PM	17.1	477	7.6	8.8	39.1
5/15/2003	12:28 PM	20.3	664	7.8	10.6	
5/22/2003	2:21 PM	24.5	827	8.4	13.3	28.1
5/29/2003	1:05 AM	25.1	713	8.1	10.4	
6/5/2003	2:13 PM	25.9	886	8.4	11.8	44.9
6/12/2003	1:35 PM	24.1	896	8.4	11.6	45.4
6/19/2003	1:42 PM	24.7	891	8.8	8.8	43.5
6/26/2003	1:22 PM	25.9	831	8.6	12.6	46.9
7/3/2003	12:31 PM	25.1	836	8.8	12.2	
7/10/2003	12:42 PM	25.5	889	8.6	12.8	
7/17/2003	12:40 PM	26.8	800	8.5	11.0	
7/24/2003	12:38 PM	27.0	825	8.3	10.3	58.8
7/31/2003	1:20 PM	26.2	770	8.0	8.2	78.3
8/7/2003	12:32 PM	23.9	804	8.4	10.9	65.8
8/14/2003	11:42 AM	23.9	830	9.0	13.1	
8/21/2003	12:13 PM	24.9	780	8.9	11.2	27.0
8/28/2003	12:33 PM	24.3	810	8.6	12.4	29.2
9/4/2003	11:52 AM	25.1	827	8.5	10.2	29.8
9/11/2003	3:14 PM	23.7	916	8.3	12.7	35.5
9/18/2003	1:51 PM	21.0	859	8.9	10.3	30.7
9/25/2003	1:39 PM	22.2	769	8.1	9.7	39.4
10/2/2003	1:00 PM	20.6	770	8.0	9.8	28.5
10/9/2003	12:45 PM	20.7	840	7.9	9.8	30.0
10/16/2003	8:30 AM	17.0	767	7.7	10.4	12.4
10/23/2003	1:45 PM	18.8	541	7.8	9.4	28.5
10/30/2003	12:06 PM	16.9	774	7.7	9.5	17.3
11/6/2003	1:14 PM	14.3	831	7.9	10.3	33.5
11/13/2003	11:30 AM	14.1	903	7.8	9.1	25.2
11/20/2003	12:45 PM	14.2	942	7.9	10.0	NA

A7: 541STC510 – SJR @ Maze continued…

Date	Time	Temp (ºC)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
11/26/2003	11:18 AM	9.6	991	7.8	11.1	16.0
12/4/2003	11:48 AM	12.5	1040	8.0	11.1	
12/11/2003	11:55 AM	11.7	1030	7.8	11.2	NA
12/18/2003	11:53 AM	10.1	1060	7.9	11.5	NA
12/23/2003	12:08 PM	11.6	1060	7.9	13.4	NA
12/30/2003	12:44 PM	9.2	992	7.8	13.0	NA
1/8/2004	11:23 AM	10.0	994	7.9	8.7	NA
1/15/2004	12:34 PM	10.8	1180	7.9	10.3	NA
1/22/2004	12:24 PM	10.2	1210	7.9	16.4	35.8
1/29/2004	12:35 PM	12.0	1190	7.9	10.4	NA
2/5/2004	11:52 AM	11.3	1180	7.8	13.3	21.0
2/12/2004	11:45 AM	11.6	1270	7.9	12.9	NA
2/19/2004	11:43 AM	13.9	1190	7.9	13.6	NA
2/26/2004	12:27 PM	13.0	1020	7.9	9.6	NA
3/4/2004	11:34 AM	12.8	982	7.9	9.7	82.0
3/11/2004	12:29 PM	16.8	916	8.0	9.6	NA
3/18/2004	10:45 AM	17.3	733	7.9	11.0	
3/25/2004	1:35 PM	16.8	837	8.0	9.5	35.5
4/1/2004	12:39 PM	16.6	909	8.1	11.0	
4/15/2004	1:48 PM	17.1	515	8.0	10.2	31.2
4/22/2004	12:42 PM	16.4	436	8.2	11.3	36.2
4/29/2004	2:39 PM	19.3	585	7.9	NA	37.7
5/6/2004	1:34 PM	20.7	415	7.9	10.0	54.5
5/13/2004	1:42 PM	19.5	403	7.9	14.6	41.0
5/20/2004	12:59 PM	21.3	900	8.1	10.8	36.5
5/27/2004	12:55 PM	24.0	948	8.6	NA	NA
6/3/2004	1:32 PM	24.4	990	8.6	12.9	35.2
6/10/2004	2:01 PM	23.8	1010	8.6	14.0	44.0
6/17/2004	1:39 PM	26.0	1050	8.6	13.8	54.0
6/24/2004	1:26 PM	24.6	977	8.7	13.2	NA
7/1/2004	12:36 PM	24.9	999	8.7	15.4	
7/8/2004	1:47 PM	26.4	1010	8.9	16.1	
7/15/2004	1:29 PM	25.1	977	8.8	14.6	
7/22/2004	8:00 AM	25.1	976	8.0	8.3	
7/29/2004	12:53 PM	26.0	1010	8.7	12.9	
8/5/2004	12:00 PM	24.6	905	8.3	10.3	
8/12/2004	12:33 PM	26.5	991	8.4	11.3	
8/19/2004	8:13 AM	24.9	925	8.0	7.1	
8/26/2004	1:25 PM	24.4	778	8.2	7.1	
9/2/2004	12:51 PM	24.6	911	8.0	9.7	
9/9/2004	7:51 AM	23.3	879	8.0	7.5	

A7: 541STC510 – SJR @ Maze continued…

Date	Time	Temp (ºC)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
9/16/2004	7:58 AM	21.4	923	7.1	7.5	
9/23/2004	3:19 PM	22.0	831	8.0	10.4	
9/30/2004	1:35 PM	21.0	948	8.0	11.0	
10/7/2004	11:46 AM	20.8	913	7.9	9.3	
10/14/2004	11:50 AM	19.0	837	7.7	8.8	
10/21/2004	12:54 PM	15.7	462	NA	9.2	
10/28/2004	12:40 PM	13.8	451	7.9	13.1	
11/4/2004	1:41 PM	13.7	853	7.9	9.2	
11/11/2004	11:55 AM	14.8	944	7.8	8.8	
11/18/2004	12:24 PM	14.0	920	7.8	9.4	
11/23/2004	8:06 AM	10.0	1010	7.8	10.2	
12/2/2004	12:57 PM	8.9	1100	7.9	11.8	
12/9/2004	12:18 PM	11.6	1070	7.8	10.7	
12/16/2004	12:41 PM	12.1	934	7.8	10.5	
12/22/2004	8:29 AM	9.1	1110	7.9	12.5	
12/29/2004	7:49 AM	9.9	1050	7.9	9.7	
1/6/2005	10:31 AM	9.3	436	7.5	11.9	
1/13/2005	12:31 PM	9.6	331	7.6	10.6	
1/20/2005	1:22 PM	8.8	659	7.5	9.1	
1/27/2005	12:15 PM	11.1	980	7.8	8.3	
2/3/2005	1:06 PM	11.1	817	7.6	8.9	
2/10/2005	11:59 AM	12.2	775	7.9	10.6	
2/17/2005	1:53 PM	12.9	536	7.9	11.8	
2/24/2005	12:28 PM	13.2	520	7.7	9.9	
3/3/2005	12:14 PM	13.5	510	7.8	10.9	
3/10/2005	1:43 PM	15.5	541	7.9	10.4	
3/17/2005	12:28 PM	13.8	603	7.9	16.0	
3/24/2005	1:15 PM	13.3	427	7.9	10.3	
3/31/2005	12:03 PM	12.8	249	7.8	11.2	
4/7/2005	12:49 PM	13.5	271	7.7	10.7	
4/14/2005	12:43 PM	13.1	295	7.9	10.9	
4/21/2005	1:10 PM	14.0	293	8.0	11.4	
4/28/2005	12:02 PM	14.3	288	7.7	12.8	
5/5/2005	12:55 PM	14.8	290	7.8	10.9	
5/12/2005	12:28 PM	15.3	216	7.8	10.5	
5/19/2005	1:11 PM	15.6	147	7.6	10.0	
5/26/2005	12:55 PM	17.6	100	7.8	9.5	
6/2/2005	12:52 PM	18.7	114	7.6	8.7	
6/9/2005	11:10 AM	17.3	145	7.3	4.1	
6/16/2005	1:05 PM	18.1	223	7.5	10.1	
6/23/2005	2:20 PM	18.3	257	NA	10.0	
6/30/2005	1:45 PM	20.5	271	7.6	7.8	
7/7/2005	12:34 PM	19.2	282	7.6	10.5	
7/13/2005	8:07 AM	21.8	422	7.8	8.9	

A7: 541STC510 – SJR @ Maze continued…

Date	Time	Temp (ºC)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
7/21/2005	1:16 PM	23.3	470	7.8	9.8	
7/28/2005	2:13 PM	23.7	546	8.0	10.1	
8/4/2005	12:16 PM	23.2	506	7.9	9.5	
8/11/2005	12:37 PM	23.9	524	8.0	9.3	
8/18/2005	1:35 PM	23.1	506	8.0	9.4	
8/25/2005	12:22 PM	23.0	528	7.7	9.0	
9/1/2005	12:23 PM	23.2	771	7.9	11.7	
9/8/2005	11:54 AM	22.3	710	7.7	8.9	
9/15/2005	12:28 PM	20.1	535	7.6	9.4	
9/21/2005	10:12 AM	20.4	440	7.8	9.2	
9/22/2005	1:55 PM	21.6	494	7.6	8.9	
9/29/2005	12:39 PM	20.5	490	7.7	8.3	
Count		260	260	258	213	54
Min		7.4	100	6.7	4.1	12
Max		27.5	1410	9.0	16.4	82.0
Mean		17.8	847	7.9	10.5	39.9
Geo Mean		16.8	786	7.9	10.3	37.1
Median		17.1	904	7.9	10.3	36.6
Quartile 1		13.1	673	7.7	9.3	29.9
Quartile 3		23.1	1020	8.0	11.2	47.4

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

A7: 541STC510 – SJR @ Maze continued…

Date	TSS (mg/L)	TOC (mg/L)	Total Coli MPN	*E. coli* MPN
10/5/2000	40			
10/12/2000	44	4.1		
10/19/2000		1.8		
10/26/2000	46	1.8		
11/2/2000	48	3.6		
11/9/2000	36	3.0		
11/16/2000	26	2.9		
11/21/2000	18			
11/30/2000	25	1.7		
12/7/2000	27	<1		
12/12/2000	40	1.4		
12/21/2000	NA	3.6		
12/28/2000	16	2.9		
1/4/2001	14	3.4		
1/11/2001	70	2.8		
1/18/2001	30	5.5		
1/25/2001	36	4.5		
2/1/2001	35	5.4		
2/8/2001	28	5.0		
2/15/2001	48	3.5		
2/22/2001	NA	1.2		
3/1/2001	57	4.8		
3/8/2001	88	7.4		
3/15/2001	58	5.8		
3/22/2001	45	2.1		
3/29/2001	49	<1		
4/5/2001	29	NA		
4/12/2001	42	4.2		
4/19/2001	52	5.3		
4/26/2001		2.8		
5/3/2001	40	3.3		
5/10/2001	44	3.0		
5/17/2001		2.9		
5/24/2001	74	4.8		
5/31/2001	61	6.9		
6/7/2001	66	12		
6/14/2001	INA	INA		
6/21/2001	NA	10		
6/28/2001	88	8.7		
7/5/2001		7.6		
7/11/2001		6.9		
7/19/2001		7.3		

A7: 541STC510 – SJR @ Maze continued…

Date	TSS (mg/L)	TOC (mg/L)	Total Coli MPN	*E. coli* MPN
10/5/2000	40			
10/12/2000	44	4.1		
10/19/2000		1.8		
10/26/2000	46	1.8		
11/2/2000	48	3.6		
11/9/2000	36	3.0		
11/16/2000	26	2.9		
11/21/2000	18			
11/30/2000	25	1.7		
12/7/2000	27	<1		
12/12/2000	40	1.4		
12/21/2000	NA	3.6		
12/28/2000	16	2.9		
1/4/2001	14	3.4		
1/11/2001	70	2.8		
1/18/2001	30	5.5		
1/25/2001	36	4.5		
2/1/2001	35	5.4		
2/8/2001	28	5.0		
2/15/2001	48	3.5		
2/22/2001	NA	1.2		
3/1/2001	57	4.8		
3/8/2001	88	7.4		
3/15/2001	58	5.8		
3/22/2001	45	2.1		
3/29/2001	49	<1		
4/5/2001	29	NA		
4/12/2001	42	4.2		
4/19/2001	52	5.3		
4/26/2001		2.8		
5/3/2001	40	3.3		
5/10/2001	44	3.0		
5/17/2001		2.9		
5/24/2001	74	4.8		
5/31/2001	61	6.9		
6/7/2001	66	12		
6/14/2001	INA	INA		
6/21/2001	NA	10		
6/28/2001	88	8.7		
7/5/2001		7.6		
7/11/2001		6.9		
7/19/2001		7.3		

A7: 541STC510 – SJR @ Maze continued…

Date	TSS (mg/L)	TOC (mg/L)	Total Coli MPN	*E. coli* MPN
7/26/2001		5.9		
8/2/2001		7.7		
8/9/2001		7.4		
8/16/2001	62	9.9		
8/23/2001	51	8.5		
8/30/2001	34	12		
9/6/2001	41	9.7		
9/13/2001	42	9.8		
9/20/2001	NA	10		
9/27/2001	39	11		
10/4/2001	NA	9.0		
10/11/2001	37	16		
10/18/2001	44	16		
10/25/2001		7.8		
11/1/2001	32			
11/8/2001	35			
11/15/2001	48	4.5		
11/20/2001	45	NA		
11/29/2001	27	NA		
12/6/2001	36	5.0		
12/13/2001	23	2.6		
12/20/2001	23	5.1		
12/27/2001	29			
1/3/2002	98			
1/10/2002	59			
1/17/2002	24			
1/24/2002	21			
1/31/2002	16	NA		
2/7/2002	27	NA		
2/14/2002	27	NA		
2/21/2002	48			
2/28/2002	43	6.4		
3/7/2002	42	6.5		
3/14/2002	45	4.3		
3/21/2002	46	3.5		
3/28/2002	35	5.0		
4/4/2002	46	NA		
4/11/2002	46			
4/18/2002	69	7.9		
4/25/2002	51	NA		
5/2/2002	46	3.8		
5/16/2002	46	NA		
5/23/2002	49	NA		

A7: 541STC510 – SJR @ Maze continued…

Date	TSS (mg/L)	TOC (mg/L)	Total Coli MPN	*E. coli* MPN
5/30/2002	NA	3.2		
6/6/2002	76	2.6		
6/13/2002	NA	NA		
6/20/2002	85	3.9		
6/27/2002	78	8.9		
7/31/2002			>2419.6	60
8/22/2002		3.6		
8/29/2002	37			
9/5/2002		3.7		
9/12/2002	25	NA		
9/19/2002	30	NA		
9/26/2002	36	NA		
10/3/2002	23	3.7		
10/10/2002	36	2.9		
10/17/2002	26	3.3		
10/24/2002	53	2.3		
10/31/2002	35	3.0		
11/7/2002	41	NA		
11/14/2002	50	5.1		
11/21/2002	32	4.8		
11/26/2002	27	3.7		
12/5/2002	24	3.2		
12/12/2002	31	2.8		
12/19/2002	77	5.7		
12/24/2002	65			
1/2/2003	46			
1/9/2003	35			
1/16/2003	50		>2419.6	75
1/23/2003	35			
1/30/2003	51			
2/6/2003	32			
2/13/2003	34			
2/20/2003	38			
2/27/2003	60			
3/6/2003	67			
3/13/2003	NA	6.4		
3/20/2003	NA	4.8		
3/27/2003	57	3.7		
4/3/2003	NA	NA		

A7: 541STC510 – SJR @ Maze continued…

Date	TSS (mg/L)	TOC (mg/L)	Total Coli MPN	*E. coli* MPN
4/10/2003	NA	3.0		
4/17/2003	53	3.1		
4/24/2003	44	3.8	>2419.6	109
5/1/2003	35	4.7		
5/8/2003	NA	3.5		
5/15/2003	50	3.3		
5/22/2003	44	2.8		
5/29/2003	46	4.2		
6/5/2003	80	6.0		
6/12/2003	77	3.4		
6/19/2003	62	3.8		
6/26/2003	67	4.7		
7/31/2003			>2419.6	64
8/28/2003			>2419.6	28
9/25/2003			>2419.6	51
10/30/2003			>2419.6	54
11/20/2003			>2419.6	45
1/29/2004			>2419.6	82
2/26/2004			>2419.6	>2419.6
3/11/2004		7.9		
3/18/2004		4.3		
3/25/2004			>2419.6	45
4/1/2004		5.1		
4/15/2004		3.7		
4/22/2004		2.5		
4/29/2004		3.8	>2419.6	140
5/6/2004		3.5		
5/13/2004		3.8		
5/20/2004		5.6		
5/27/2004			>2419.6	80
6/3/2004		7.4		
6/10/2004		7.3		
6/17/2004		5.4	>2419.6	59
6/24/2004			>2419.6	66
7/1/2004		8.3		
7/8/2004		9.8	>2419.6	48
7/15/2004		8.3		
7/22/2004		5.8		
7/29/2004		6.0	>2419.6	35

A7: 541STC510 – SJR @ Maze continued…

Date	TSS (mg/L)	TOC (mg/L)	Total Coli MPN	*E. coli* MPN
8/5/2004		6.6		
8/12/2004		8.5	>2419.6	44
8/19/2004		5.4		
8/26/2004			>2419.6	55
9/16/2004			>2419.6	38
9/23/2004				
9/30/2004			>2419.6	36
10/14/2004			>2419.6	1733
10/28/2004	50		>2419.6	167
11/4/2004	50	5.5	>2419.6	214
11/11/2004	88	6.2		
11/18/2004	38	6.1	>2419.6	40
11/23/2004	26	5.2		
12/2/2004	17	4.8		
12/9/2004	32	4.9	>2419.6	172
12/16/2004	47	5.6		
12/22/2004	21	4.9	>2419.6	36
12/29/2004	48	4.8		
1/6/2005	120	10	>2419.6	248
1/13/2005	130	11		
1/20/2005	66		>2419.6	35
1/27/2005	64	8.2		
2/3/2005	53	13	>2419.6	115
2/10/2005	43	5.8		
2/17/2005	150	7.6	>2419.6	>2419.6
2/24/2005	110	7.5		
3/3/2005	50	4.8		
3/10/2005	46	NA	961	24
3/17/2005	43	4.0		
3/24/2005	74	8.7	>2419.6	>2419.6
3/31/2005	62	3.7		
4/7/2005	29	3.2	1300	50
4/14/2005	40	NA		
4/21/2005	27	2.7	>2419.6	53
4/28/2005	36	NA		
5/5/2005	NA	2.4	>2419.6	46
5/12/2005	33	2.6		
5/19/2005	34	3.0	>2419.6	161
5/26/2005	38	2.4		

A7: 541STC510 – SJR @ Maze continued…

Date	TSS (mg/L)	TOC (mg/L)	Total Coli MPN	*E. coli* MPN
6/2/2005	38	3.2		
6/9/2005	42	NA	>2419.6	184
6/16/2005	47	2.9		
6/23/2005	45	2.7	>2419.6	91
6/30/2005	160	2.1		
7/7/2005	62	2.2	>2419.6	84
7/13/2005	51	2.3		
7/21/2005	53	2.7	>2419.6	66
7/28/2005	58	2.9		
8/4/2005	50	2.8	>2419.6	59
8/11/2005	65	2.9		
8/18/2005	49	3.2	>2419.6	79
8/25/2005	60	3.0		
9/1/2005	51	3.1	>2419.6	54
9/8/2005	54	3.1	>2419.6	261
9/15/2005	62	2.9		
9/21/2005			>2419.6	194
9/22/2005	34	NA		
9/29/2005	39	2.7		
Count	158	157	46	46
Min	14	0.5	961	24
Max	160	16	2420	2420
Mean	48	5	NA	NA
Geo Mean	44	4	2340	95
Median	45	4.3	2420	65
Quartile 1	35	3.0	2420	47
Quartile 3	54	6.4	2420	156

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

A7: 541STC510 – SJR @ Maze 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)
10/12/2000								1.3	2.3
10/26/2000	5.8		<2		0.2	<1	3.1	0.9	1.7
11/16/2000								1.3	2.5
11/30/2000	8.8		<2		0.2	<1	5.1	1	1.8
12/12/2000								1.5	2.4
12/28/2000	9.6		<2		<0.1	<1	6	1.3	2.3
1/11/2001								2	3.1
1/25/2001	9.3		<2		0.2	<1	6.5	1.7	2.9
2/8/2001	12		<2		0.1	<1	6.9	1.7	2
2/22/2001	7.8		<2		0.2	<1	4.5	1.4	2.3
3/15/2001	13		<2		0.3	<1	7.1	1.7	3.1
3/29/2001	9.5		<2		0.2	<1	6.3	1.8	3.4
4/19/2001	12		<2		0.2	<1	5.6	2.2	4.2
4/26/2001	6.8		<2	<1	0.2	<1	3.3	1.9	3.2
5/17/2001	6		<2		0.2	<1	3.6	1.6	2.8
5/31/2001	12		1.2		0.2	NA	6.2	2.8	5.4
6/7/2001	12		<1.0		0.3	<1	6.2	4.9	7.5
6/21/2001	11		<2		0.3	<1	6.8	5.5	9.4
6/28/2001	15		<2		0.3	<1	7.2	3.4	6
8/16/2001	11		<2		0.4	<1	5.3		
8/30/2001	11		<2		0.3	<1	6.2		
9/27/2001	14		<2		0.3	<1	6.1		
10/25/2001								1	2.3
11/29/2001	NA		NA		NA	0.1	6.2	1.1	1.9
12/13/2001								0.9	1.9
12/27/2001								1.1	2.2
1/17/2002								1.1	2.2
1/31/2002								1.7	2.6

A7: 541STC510 – SJR @ Maze 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)
2/14/2002								1.7	2.9
2/28/2002								1.9	3.1
3/14/2002								2.4	3.9
4/25/2002								1.8	3.1
5/16/2002								1.6	2.8
5/30/2002								2.7	4.7
6/13/2002	12		NA		0.3	0.1	6.3	3.6	6.9
6/20/2002								6.3	12.6
8/29/2002								5.2	8.5
9/26/2002								2.1	3.8
10/31/2002								1.3	2
11/21/2002								1.6	2.9
12/19/2002								3.2	4.9
1/30/2003								1.4	2.1
Count	19	NA	18	1	19	19	20	39	39
Min	5.8	NA	0.5	0.5	0.1	0.1	3.1	0.9	1.7
Max	15.0	NA	1.2	0.5	0.4	0.5	7.2	6.3	12.6
Mean	10.5	NA	1.0	0.5	0.2	0.5	5.7	2.1	3.7
Geo Mean	10.1	NA	1.0	0.5	0.2	0.4	5.6	1.9	3.2
Median	11.0	NA	1.0	0.5	0.2	0.5	6.2	1.7	2.9
Quartile 1	9.1	#NUM!	1.0	0.5	0.2	0.5	5.3	1.3	2.3
Quartile 3	12.0	#NUM!	1.0	0.5	0.3	0.5	6.4	2.3	4.1

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

A7: 541STC510 – SJR @ Maze continued…

Date	Hardness (mg/L)	Total Arsenic (ug/L)	Total Cadmium (ug/L)	Total Chromium (ug/L)	Total Copper (ug/L)	Total Lead (ug/L)	Total Nickel (ug/L)	Total Zinc (ug/L)	Total Mercury (ug/L)
10/26/2000				2.5	2.6	<5	<5		
11/30/2000	160			1.1	1.4	<5	<5	5.1	
12/28/2000	200			1	1.5	<5	<5	<2	
1/25/2001	220			1.9	2.7	<5	<5	3.2	
2/22/2001	160			1.8	3.3	<5	<5	5.1	
3/29/2001	250			2.1	2.9	<5	<5	4.6	
4/26/2001	110			2.4	3.3	<5	<5	5.7	
5/31/2001	210			3.0	3.6	<5	5.1	5.8	
6/7/2001	240	3.0	<1	3.6	4.4	<5	6.0	7.2	<0.2
6/21/2001	NA	3.2	<1	2.7	2.9	<5	<5	4.7	<0.2
6/28/2001	260	3.1	<1	4.8	4.6	<5	7.7	8.0	<0.2
7/26/2001		NA	NA	3.9	3.7	<5	5.8	6.0	NA
8/30/2001	210	2.9	<1	1.8	2.0	<5	<5	2.4	
9/27/2001	210	<4	<1	<1	1.5	<5	<5	<2	<0.2
10/25/2001	120	<4	<0.1	<1	2.1	<5	<5	2.1	<0.2
11/29/2001	190	<4	<0.1	<1	<1	<5	<5	3	<0.2
12/27/2001		<4	<0.1	3.4	4.1	<5	<5	6.5	<0.2
1/31/2002		<4.0	<0.1	<1.0	NA	<5.0	<5.0	<2.0	<0.2
2/28/2002		<4.0	<0.1	2.0	3.5	<5.0	<5.0	4.4	<0.2
3/28/2002		<4.0	<0.1	2.0	2.5	<5.0	8.8	10	<0.2
4/25/2002		<4.0	<0.1	<1.0	1.6	<5.0	<5.0	<2.0	<0.2
5/30/2002		<4.0	<0.1	4.0	4.4	<5.0	5.7	6.9	<0.2
6/20/2002	260	4.8	<0.1	4.0	4.2	<5.0	6.1	5.7	<0.2
9/26/2002	200	4.5	<0.1	2.0	NA	<5.0	<5.0	3.7	<0.2
10/31/2002	160	<4.0	<0.1	2.1	2.0	<5.0	<5.0	3.8	<0.2
11/21/2002	220	<4.0	<0.1	3.1	3.8	<5.0	6.3	5.1	<0.2
3/27/2003	280	<4.0	NA	3.2	3.3	<5.0	<5.0	5.2	<0.2
4/24/2003	110	<4.0	<0.1	NA	NA	NA	<5.0	4.3	<0.2
5/29/2003	160	<4.0	<0.1	<1.0	3.6	<5.0	<5.0	3.7	<0.2
6/26/2003	190	<4.0	<0.1	2.9	3.6	<5.0	<5.0	5.3	<0.2

A7: 541STC510 – SJR @ Maze continued…

Date	Hardness (mg/L)	Total Arsenic (ug/L)	Total Cadmium (ug/L)	Total Chromium (ug/L)	Total Copper (ug/L)	Total Lead (ug/L)	Total Nickel (ug/L)	Total Zinc (ug/L)	Total Mercury (ug/L)
Count	21	21	20	29	27	29	30	29	20
Min	110.0	2.0	0.1	0.5	0.5	2.5	2.5	1.0	0.1
Max	280.0	4.8	0.5	4.8	4.6	2.5	8.8	10.0	0.1
Mean	196.2	2.5	0.2	2.2	2.9	2.5	3.6	4.5	0.1
Geo Mean	189.8	2.3	0.1	1.8	2.7	2.5	3.2	3.9	0.1
Median	200.0	2.0	0.1	2.1	3.3	2.5	2.5	4.7	0.1
Quartile 1	160.0	2.0	0.1	1.1	2.1	2.5	2.5	3.2	0.1
Quartile 3	220.0	2.9	0.2	3.1	3.7	2.5	4.5	5.7	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

A7: 541STC510 – SJR @ Maze continued…

Date	Hardness (mg/L)	Dissolved Arsenic (ug/L)	Dissolved Cadmium (ug/L)	Dissolved Chromium (ug/L)	Dissolved Copper (ug/L)	Dissolved Lead (ug/L)	Dissolved Nickel (ug/L)	Dissolved Zinc (ug/L)	Dissolved Mercury (ug/L)
10/26/2000				<1	<1	<5	<5	<2	
11/30/2000	160			<1	<1	<5	<5	<2	
12/28/2000	200			<1	<1	<5	<5	<2	
1/25/2001	220			<1	<1	<5	<5	<2	
2/22/2001	160			<1	1.1	<5	<5	<2	
3/29/2001	250			<1	1.4	<5	<5	<2	
4/26/2001	110			<1	1.1	<5	<5	<2	
5/31/2001	210			1.1	<1	<5	<5	2.1	
6/7/2001	240	2.2	<1	<1	1.3	<5	<5	<2	<0.2
6/21/2001	NA	2.7	<1	<1	<1	<5	<5	<2	<0.2
6/28/2001	260	3.3	<1	<1	<1	<5	<5	<2	<0.2
7/26/2001		NA	NA	NA	NA	NA	NA	NA	NA
8/30/2001	210	2.3	<1	<1	1.1	<5	<5	<2	
9/27/2001	210	<4	<1	<1	<1	<5	<5	<2	<0.2
10/25/2001	120	<4	<0.1	<1	1.0	<5	<5	<2	<0.2
11/29/2001	190	<4	<0.1	<1	<1	<5	<5	2.4	<0.2
12/27/2001		<4	<0.1	<1	1.1	<5	<5	2.3	<0.2
1/31/2002		<4.0	<0.1	<1.0	NA	<5.0	<5.0	<2.0	<0.2
2/28/2002		<4.0	<0.1	1.9	<1.0	<5.0	<5.0	<2.0	<0.2
3/28/2002		<4.0	<0.1	<1.0	1.8	<5.0	<5.0	6.5	<0.2
4/25/2002		<4.0	<0.1	<1.0	<1.0	<5.0	<5.0	NA	<0.2
5/30/2002		<4.0	<0.1	<1.0	1.6	<5.0	<5.0	<2.0	<0.2
6/20/2002	260	<4.0	<0.1	<1.0	3.2	<5.0	<5.0	<2.0	<0.2
9/26/2002	200	<4.0	<0.1	<1.0	1.7	<5.0	<5.0	<2.0	<0.2
10/31/2002	160	<4.0	<0.1	<1.0	1.2	<5.0	<5.0	<2.0	<0.2
11/21/2002	220	<4.0	<0.1	<1.0	<1.0	<5.0	<5.0	<2.0	<0.2

A7: 541STC510 – SJR @ Maze 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	17	17	17	25	24	25	25	24	16
Min	110.0	2.0	0.1	0.5	0.5	2.5	2.5	1.0	0.1
Max	260.0	3.3	0.5	1.9	3.2	2.5	2.5	6.5	0.1
Mean	198.8	2.1	0.2	0.6	1.0	2.5	2.5	1.4	0.1
Geo Mean	193.5	2.1	0.1	0.5	0.8	2.5	2.5	1.2	0.1
Median	210.0	2.0	0.1	0.5	0.8	2.5	2.5	1.0	0.1
Quartile 1	160.0	2.0	0.1	0.5	0.5	2.5	2.5	1.0	0.1
Quartile 3	220.0	2.0	0.5	0.5	1.2	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

A7: 541STC510 – SJR @ Maze continued…

Date	Chloride (mg/L)	Sulfate (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	TDS (mg/L)	Carbonate (mg/L)	Bicarbonate (mg/L)	Total Alkalinity (mg/L)	Sodium (mg/L)
11/30/2000	91	86	35	18	460	<1	120	100	86
12/28/2000	120	120	42	23	520	<1	160	130	110
1/25/2001	140	150	45	26	520	<1	180	140	130
2/22/2001	82	100	34	18	390	<1	110	90	85
3/29/2001	140	170	53	30	540	<1	170	140	140
4/26/2001		64	25	13	310	<1	70	70	47
5/31/2001	120	110	45	24	540	<1	120	120	100
6/7/2001	25	26	51	27	560	<1	160	130	120
6/21/2001	150	150	56	30	690	<1	190	160	130
6/28/2001	140	150	57	30	620	<1	180	150	120
8/30/2001	140	130	46	24	550	<1	170	140	110
9/27/2001	NA	100	44	24	540	<1	NA	NA	110
10/25/2001	75	65	26	14	320	<1	68	NA	61
11/29/2001	130	120	39	23	550	<1	290	240	110
3/27/2003	180	200	59	33					
4/24/2003	68	78	25	13					
5/29/2003	97	99	35	18					
6/26/2003	110	120	42	21					
Count	16	18	18	18	14	14	13	12	14
Min	25	26	25	13	310	0.5	68	70	47
Max	180	200	59	33	690	0.5	290	240	140
Mean	110	110	42	23	500	0.5	150	130	100
Geo Mean	100	100	41	22	500	0.5	140	130	100
Median	120	120	43	24	540	0.5	160	140	110
Quartile 1	89	89	35	18	480	0.5	120	120	90
Quartile 3	140	150	50	27	550	0.5	180	140	120

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

A7: 541STC510 – SJR @ Maze continued…

	96h Acute Fathead Minnow (% Survival)		48h Acute Ceriodaphnia Dubia (% Survival)		Algae Cell Growth		
Date	Result	Control	Result	Control	Result (million/ml)	Control (million/ml)	MDD (%)
10/26/2000	95	100	NA	NA			
Count	1	1	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

A8: 541SJC501 – SJR @ Airport Way

Station Code: 541SJC501

Location: Latitude 37.67556, Longitude -121.264167

Date	Time	Temp (ºC)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
10/5/2000	1:45 PM	20.9	428	8.0		
10/12/2000	7:50 AM	15.8	397	7.7		
10/19/2000	12:30 PM	19.0	336	7.8		
10/26/2000	9:20 AM	15.4	298	7.7		
11/2/2000	12:55 PM	15.4	449	7.3		
11/9/2000	1:55 PM	13.6	581	7.7		
11/16/2000	7:45 AM	9.7	636	6.9		
11/21/2000	10:50 AM	11.0	638	7.7		
11/30/2000	7:35 AM	9.1	650	7.1		
12/7/2000	1:40 PM	11.8	725	7.8		
12/12/2000	2:20 PM	12.7	778	7.9		
12/21/2000	8:55 AM	9.6	789	6.9		
12/28/2000	7:32 AM	7.1	788	6.7		
1/4/2001	1:14 PM	10.1	831	7.8		
1/11/2001	8:18 AM	9.3	771	7.3		
1/18/2001	2:32 PM	9.9	830	7.4		
1/25/2001	7:53 AM	9.3	916	7.4		
2/1/2001	8:37 AM	8.5	895	6.9		
2/8/2001	3:25 PM	12.4	1020	7.8		
2/10/2001	1:15 PM	9.6	968	7.8		
2/11/2001	2:58 AM	8.8	966	7.7		
2/15/2001	8:30 AM	9.6	696	7.0		
2/22/2001	8:50 AM	11.1	660	6.7		
3/1/2001	1:30 PM	13.6	502	7.7		
3/8/2001	2:00 PM	15.4	496	7.8		
3/15/2001	8:30 AM	14.8	931	7.4		
3/22/2001	8:25 AM	18.4	1090	7.0		
3/29/2001	3:13 PM	20.7	940	7.5		
4/5/2001	8:35 AM	15.0	915	6.6		
4/12/2001	1:50 PM	16.2	687	7.6		
4/19/2001	8:55 AM	16.1	778	7.6		
4/26/2001	3:00 PM	21.0	317	8.0		
5/3/2001	2:34 PM	18.5	308	7.4		
5/10/2001	12:25 PM	20.0	289	7.7		
5/17/2001	8:10 AM	18.6	291	7.2		
5/24/2001	3:00 PM	26.6	672	7.9		
5/31/2001	7:50 AM	22.5	657	7.0		
6/7/2001	7:57 AM	21.8	733	8.0	9.4	
6/14/2001	7:35 AM	21.0	794	7.9	8.8	

A8: 541SJC501 – SJR @ Airport Way continued…

Date	Time	Temp (ºC)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
6/21/2001	8:24 AM	24.4	787	7.8	9.9	
6/28/2001	8:10 AM	21.6	683	7.7	7.9	
7/5/2001	1:02 PM	25.9	676	8.3	10.9	
7/11/2001	8:00 AM	22.9	670	8.0	9.4	
7/19/2001	8:09 AM	22.8	703	7.2	10.7	
7/26/2001	1:15 PM	25.9	737	8.6	14.4	
8/2/2001	2:35 PM	26.0	740	8.6	11.9	
8/9/2001	1:35 PM	27.1	774	8.7	11.9	
8/16/2001	2:16 PM	25.2	691	8.7	12.4	
8/23/2001	2:12 PM	23.9	718	8.4	11.5	
8/30/2001	2:20 PM	25.3	725	8.6	11.6	
9/6/2001	1:44 PM	22.8	748	8.7	13.0	
9/13/2001	2:52 PM	23.1	766	8.4	11.8	
9/20/2001	7:26 AM	21.6	710	7.8	7.8	
9/27/2001	7:45 AM	20.6	676	7.9	7.4	
10/4/2001	12:33 PM	22.0	730	8.0	10.3	
10/11/2001	1:17 PM	18.7	701	7.9	9.1	
10/18/2001	2:36 PM	19.8	611	7.9	9.6	
10/25/2001	3:31 PM	16.0	400	7.8	9.4	
11/1/2001	2:06 PM	16.7	494	8.0	8.5	
11/8/2001	2:27 PM	15.3	631	8.5	10.5	
11/15/2001	11:55 AM	15.7	640	8.0	9.0	
11/20/2001	8:06 AM	14.1	620	7.7	9.0	
11/29/2001	1:20 PM	14.0	730	7.6	NA	
12/6/2001	1:15 PM	11.1	697	7.8	10.8	
12/13/2001	1:34 PM	10.4	822	7.3	10.9	
12/20/2001	7:51 AM	9.7	878	7.7	10.3	
12/27/2001	9:07 AM	10.7	848	7.8	10.6	
1/3/2002	2:00 PM	13.3	404	7.6	7.4	
1/10/2002	2:13 PM	12.4	739	7.5	10.8	
1/17/2002	12:56 PM	9.0	1010	7.8	10.7	
1/24/2002	8:15 AM	8.1	1120	7.4	11.5	
1/31/2002	7:53 AM	7.5	1050	7.9	11.5	
2/7/2002	12:48 PM	11.3	994	8.1	11.7	
2/14/2002	1:51 PM	13.2	987	8.0	10.6	
2/21/2002	7:40 AM	13.9	937	7.7	10.1	
2/28/2002	2:17 PM	15.9	1030	8.0	9.7	
3/7/2002	12:21 PM	15.1	1017	8.0	9.7	
3/7/2002	3:50 PM	15.1	1020	8.0	9.7	
3/14/2002	1:45 PM	14.1	1030	8.2	10.8	
3/21/2002	2:30 PM	16.1	918	8.0	9.0	
3/28/2002	4:21 PM	18.6	988	8.1	8.9	
4/4/2002	12:22 PM	18.7	908	8.3	10.2	
4/11/2002	2:54 PM	19.8	728	8.2	9.9	
4/18/2002	11:38 AM	14.2	386	7.7	10.6	

A8: 541SJC501 – SJR @ Airport Way continued…

Date	Time	Temp (ºC)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
4/25/2002	7:32 AM	16.9	376	7.7	9.3	
5/2/2002	12:24 PM	16.4	380	8.0	9.9	
5/9/2002	2:01 PM	18.8	351	8.5	11.1	
5/16/2002	1:50 PM	21.3	433	7.5	NA	NA
5/23/2002	10:20 AM	18.2	490	7.6	NA	
5/30/2002	8:18 AM	21.7	511	7.8	8.8	
6/6/2002	11:42 AM	24.4	672	8.3	8.6	
6/13/2002	8:02 AM	21.2	749	7.5	NA	
6/20/2002	12:30 PM	24.1	724	8.9	NA	
6/27/2002	1:24 PM	24.3	690	8.8	13.7	
7/3/2002	7:39 AM	22.9	665	8.6	NA	
7/11/2002	8:21 AM	25.1	697	8.3	NA	
7/18/2002	1:32 PM		688	8.8	13.3	44.0
7/25/2002	12:14 PM	23.9	787	8.6	11.1	
7/31/2002	8:21 AM	23.6	745	8.1	7.8	52.4
8/1/2002	12:54 PM	25.5	650	8.4	11.5	
8/8/2002	1:58 PM	24.5	870	8.8	16.2	
8/15/2002	12:07 PM	24.8	824	8.6	12.0	
8/22/2002	12:46 PM	23.2	801	8.5	12.3	
8/29/2002	12:06 PM	24.0	838	8.9	NA	
9/5/2002	12:12 PM	21.6	864	8.8	NA	
9/12/2002	12:07 PM	23.1	851	8.6	14.1	
9/19/2002	1:06 PM	23.1	882	8.2	12.1	NA
9/26/2002	8:21 AM	21.4	737	6.9	8.8	
10/3/2002	12:56 PM	17.1	802	7.9	9.8	
10/10/2002	8:20 AM	19.8	744	7.9	9.1	
10/17/2002	12:21 PM	17.3	794	8.1	11.4	23.6
10/24/2002	7:58 AM	15.1	380	7.1	9.0	
10/31/2002	2:11 PM	14.6	629	7.9	8.7	28.0
11/7/2002	12:48 PM	13.5	759	7.8	9.5	
11/14/2002	1:02 PM	15.0	801	7.8	9.3	
11/21/2002	8:13 AM	13.0	859	7.6	9.1	30.3
11/26/2002	7:50 AM	12.3	674	7.9	9.9	
12/5/2002	12:17 PM	11.4	938	7.8	11.0	25.1
12/12/2002	12:34 PM	11.8	931	7.7	10.8	
12/19/2002	12:19 PM	9.8	674	8.1	NA	74.5
12/24/2002	7:58 AM	8.3	687	6.1	11.5	
1/2/2003	8:56 AM	9.8	877	7.6	13.4	
1/9/2003	1:14 PM	10.5	1060	7.8	12.4	
1/16/2003	8:28 AM	11.5	496	7.5	10.6	41.2
1/23/2003	12:00 PM	11.9	1130	7.7	10.8	
1/30/2003	1:44 PM	12.8	894	7.7	10.9	43.0
2/6/2003	7:33 AM	9.6	1080	7.8	10.8	
2/13/2003	8:41 AM	11.5	1040	7.6	10.0	21.1

A8: 541SJC501 – SJR @ Airport Way continued…

Date	Time	Temp (ºC)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
2/20/2003	7:49 AM	11.3	1010	7.5	10.9	32.3
2/27/2003	12:02 PM	14.0	1050	7.8	9.1	
3/6/2003	3:00 PM	15.8	1160	7.8	12.0	NA
3/13/2003	1:06 PM	18.0	1050	7.9	9.7	40.8
3/20/2003	12:41 PM	16.5	1200	8.0	9.9	43.1
3/27/2003	12:25 PM	17.1	1150	8.0	9.8	53.3
4/3/2003	8:33 AM	14.8	917	7.1	1.3	27.0
4/10/2003	1:10 PM	19.2	899	8.0	11.9	30.7
4/17/2003	2:00 PM	15.8	471	7.9	10.1	37.2
4/24/2003	1:39 PM	15.7	441	7.8	9.2	28.4
5/1/2003	1:13 PM	16.8	358	8.0	10.8	NA
5/8/2003	12:15 PM	17.0	908	7.7	9.2	41.2
5/15/2003	12:48 PM	20.0	506	7.8	10.3	
5/22/2003	2:39 PM	22.7	535	8.6	13.1	24.1
5/29/2003	1:26 AM	24.3	456	8.1	10.2	
6/5/2003	2:30 PM	23.1	452	8.5	11.9	29.4
6/12/2003	2:05 PM	21.0	453	8.3	10.7	34.3
6/19/2003	2:02 PM	21.5	423	8.7	8.9	27.2
6/26/2003	1:42 PM	22.3	374	8.5	11.2	27.1
7/3/2003	12:47 PM	23.5	489	8.6	10.7	
7/10/2003	12:57 PM	25.0	651	8.6	11.2	
7/17/2003	12:54 PM	26.6	705	8.6	11.3	
7/24/2003	12:53 PM	26.5	601	8.4	10.3	37.0
7/31/2003	1:35 PM	26.1	647	8.2	8.8	59.2
8/7/2003	12:52 PM	23.7	650	8.5	12.3	45.1
8/14/2003	11:58 AM	23.6	718	9.1	15.3	
8/21/2003	12:27 PM	24.5	662	8.9	13.2	19.2
8/28/2003	12:51 PM	24.3	678	8.6	12.4	27.9
9/4/2003	12:05 PM	24.8	706	8.5	10.1	32.6
9/11/2003	3:31 PM	24.1	742	8.3	11.9	25.0
9/18/2003	2:09 PM	21.3	712	8.2	10.4	24.4
9/25/2003	1:57 PM	22.5	727	8.2	10.3	29.4
10/2/2003	1:22 PM	20.7	702	8.0	10.1	30.0
10/9/2003	1:04 PM	20.6	676	7.9	9.3	30.6
10/16/2003	8:11 AM	16.7	637	7.5	10.0	12.3
10/23/2003	2:03 PM	18.4	419	7.9	9.6	42.9
10/30/2003	12:25 PM	16.2	559	7.6	8.2	25.6
11/6/2003	1:32 PM	14.2	713	7.9	11.3	28.6
11/13/2003	11:44 AM	14.0	737	7.8	9.5	27.4
11/20/2003	1:00 PM	14.2	810	8.1	10.7	NA
11/26/2003	11:31 AM	9.5	834	7.9	11.4	17.0
12/4/2003	12:04 PM	12.3	885	8.0	11.4	
12/11/2003	12:15 PM	11.6	975	7.9	11.2	NA
12/18/2003	12:07 PM	9.9	952	7.9	11.6	NA
12/23/2003	12:29 PM	11.5	914	8.0	13.8	NA

A8: 541SJC501 – SJR @ Airport Way continued…

Date	Time	Temp (ºC)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
12/30/2003	1:02 PM	9.0	966	8.0	13.5	NA
1/8/2004	11:37 AM	10.0	898	7.9	8.4	NA
1/15/2004	12:48 PM	10.7	1090	7.9	11.1	NA
1/22/2004	12:39 PM	10.1	1110	7.9	16.6	28.1
1/29/2004	12:52 PM	12.0	1060	7.9	10.9	NA
2/5/2004	12:06 PM	11.4	1070	7.9	14.0	42.7
2/12/2004	12:00 PM	11.5	1050	7.9	13.4	NA
2/19/2004	11:55 AM	13.5	936	8.0	13.4	NA
2/26/2004	12:41 PM	13.1	897	7.8	9.7	NA
3/4/2004	11:47 AM	13.0	917	7.8	9.3	86.6
3/11/2004	12:47 PM	17.2	862	8.0	9.7	NA
3/18/2004	11:02 AM	17.8	740	7.9	10.6	
3/25/2004	2:06 PM	16.9	753	7.9	9.5	41.0
4/1/2004	12:57 PM	17.0	820	8.0	10.7	
4/15/2004	2:16 PM	17.9	484	7.9	10.4	30.8
4/22/2004	1:00 PM	16.7	382	7.9	11.5	40.2
4/29/2004	3:03 PM	18.8	368	8.0	NA	43.7
5/6/2004	1:54 PM	20.5	326	7.9	10.3	42.5
5/13/2004	2:08 PM	19.1	335	7.9	14.0	52.4
5/20/2004	1:22 PM	19.3	478	8.2	11.0	25.3
5/27/2004	1:19 PM	23.4	695	8.8	NA	NA
6/3/2004	1:52 PM	24.3	794	8.8	12.9	32.8
6/10/2004	2:22 PM	23.8	834	8.8	15.0	35
6/17/2004	2:05 PM	24.9	611	8.6	11.5	27.2
6/24/2004	2:06 PM	21.6	413	8.7	11.6	NA
7/1/2004	12:51 PM	23.1	521	8.8	13.7	NA
7/8/2004	2:13 PM	25.6	663	9.0	15.9	NA
7/15/2004	1:49 PM	25.1	683	9.0	15.8	NA
7/22/2004	7:40 AM	23.2	548	8.1	8.4	NA
7/29/2004	1:17 PM	25.9	674	8.7	12.3	NA
8/5/2004	12:20 PM	24.3	687	8.4	11.0	NA
8/12/2004	12:53 PM	26.6	772	8.5	11.0	NA
8/19/2004	7:52 AM	24.2	739	8.2	7.2	NA
8/26/2004	1:45 PM	24.3	655	8.3	7.2	NA
9/2/2004	1:10 PM	24.6	750	8.0	9.6	NA
9/9/2004	7:33 AM	22.8	739	8.3	7.7	NA
9/16/2004	7:40 AM	21.2	761	6.8	7.5	NA
9/23/2004	3:35 PM	22.2	775	8.0	10.4	NA
9/30/2004	1:45 PM	21.3	848	8.1	12.0	NA
10/7/2004	11:59 AM	20.6	757	8.0	9.6	
10/14/2004	12:07 PM	19.3	740	7.8	9.6	
10/21/2004	1:10 PM	15.9	424	NA	8.6	
10/28/2004	1:02 PM	13.8	367	7.8	13.0	
11/4/2004	2:00 PM	13.7	696	7.9	9.7	

A8: 541SJC501 – SJR @ Airport Way continued…

Date	Time	Temp (ºC)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
11/11/2004	12:14 PM	14.7	794	7.8	8.9	
11/18/2004	12:46 PM	13.7	803	7.8	9.3	
11/23/2004	7:45 AM	10.0	930	7.8	10.5	
12/2/2004	1:15 PM	8.9	1020	7.9	12.0	
12/9/2004	12:36 PM	11.6	825	7.8	11.1	
12/16/2004	12:59 PM	12.1	822	7.8	10.8	
12/22/2004	8:04 AM	9.0	920	7.8	13.2	
12/29/2004	7:32 AM	9.8	940	8.1	10.0	
1/6/2005	11:11 AM	9.5	418	7.6	12.0	
1/13/2005	12:49 PM	9.6	303	7.6	9.5	
1/20/2005	1:48 PM	8.9	622	7.5	9.3	
1/27/2005	12:31 PM	11.2	884	7.8	8.0	
2/3/2005	1:23 PM	11.1	756	7.7	8.9	
2/10/2005	12:17 PM	12.4	741	7.9	10.6	
2/17/2005	2:13 PM	13.0	517	7.8	10.7	
2/24/2005	12:43 PM	13.4	506	7.7	9.7	
3/3/2005	12:31 PM	13.7	499	7.8	10.6	
3/10/2005	2:00 PM	15.7	531	7.8	10.1	
3/17/2005	12:52 PM	14.2	580	7.9	11.0	
3/24/2005	1:39 PM	14.5	400	7.7	10.1	
3/31/2005	12:19 PM	14.2	270	7.6	10.4	
4/7/2005	1:09 PM	13.7	262	7.6	10.6	
4/14/2005	1:00 PM	13.5	293	7.9	11.0	
4/21/2005	1:31 PM	14.5	284	7.9	11.3	
4/28/2005	12:18 PM	14.8	277	7.7	12.5	
5/5/2005	1:24 PM	15.0	260	7.8	10.5	
5/12/2005	12:46 PM	15.3	197	7.8	10.1	
5/19/2005	1:33 PM	15.6	142	7.5	9.8	
5/26/2005	1:14 PM	18.6	97	7.6	9.1	
6/2/2005	1:16 PM	20.7	123	7.6	9.1	
6/9/2005	11:28 AM	17.8	143	7.4	9.0	
6/16/2005	1:21 PM	18.5	219	7.5	9.9	
6/23/2005	2:42 PM	18.8	266	NA	10.1	
6/30/2005	2:06 PM	21.2	258	7.6	9.8	
7/7/2005	12:54 PM	20.0	277	7.6	11.0	
7/13/2005	7:47 AM	22.2	404	7.9	8.5	
7/21/2005	1:39 PM	24.1	454	7.9	9.9	
7/28/2005	2:35 PM	24.4	513	8.2	10.9	
8/4/2005	12:31 PM	23.8	487	8.0	10.6	

A8: 541SJC501 – SJR @ Airport Way continued…

Date	Time	Temp (ºC)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
8/11/2005	1:56 PM	24.6	491	8.1	9.8	
8/18/2005	1:57 PM	23.7	479	7.9	9.5	
8/25/2005	12:36 PM	23.4	487	7.8	9.2	
9/1/2005	12:45 PM	23.3	698	7.9	12.7	
9/8/2005	12:24 PM	22.3	651	7.8	9.3	
9/15/2005	12:57 PM	20.4	491	7.7	9.5	
9/21/2005	10:50 AM	20.5	424	7.7	9.4	
9/22/2005	2:22 PM	21.9	434	7.5	8.9	
9/29/2005	1:02 PM	20.8	452	7.6	8.4	

Count	264	265	263	216	54
Min	7.1	97	6.1	1.3	12
Max	27.1	1200	9.1	16.6	86.6
Mean	17.4	685	7.9	10.6	35.2
Geo Mean	16.5	636	7.9	10.4	33.2
Median	17.0	705	7.9	10.5	30.8
Quartile 1	13.1	496	7.7	9.5	27.2
Quartile 3	22.3	848	8.1	11.5	42.2

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

A8: 541SJC501 – SJR @ Airport Way continued…

Date	TSS (mg/L)	TOC (mg/L)	Total Coli MPN	*E. coli* MPN
10/5/2000	40			
10/12/2000	45	3.8		
10/19/2000		1.5		
10/26/2000	39	<1		
11/2/2000	45	4.2		
11/9/2000	35	3.4		
11/16/2000	28	3.2		
11/21/2000	16			
11/30/2000	24	1.5		
12/7/2000	24	<1		
12/12/2000	37	2.1		
12/21/2000	NA	3.4		
12/28/2000	16	2.2		
1/4/2001	13	3.0		
1/11/2001	38	3.1		
1/18/2001	26	3.8		
1/25/2001	37	4.5		
2/1/2001	29	5.2		
2/8/2001	23	4.4		
2/10/2001	29	2.1		
2/11/2001	23	3.0		
2/15/2001	42	2.7		
2/22/2001	NA	3.8		
3/1/2001	51	4.4		
3/8/2001	83	7.4		
3/15/2001	56	5.6		
3/22/2001	53	2.1		
3/29/2001	52	<1		
4/5/2001	27	NA		
4/12/2001	36	6.3		
4/19/2001	49	5.1		
4/26/2001		2.4		
5/3/2001	37	2.4		
5/10/2001	33	2.5		
5/17/2001		2.5		
5/24/2001	66	3.6		
5/31/2001	48	4.4		
6/7/2001	52	3.7		
6/14/2001	52	10		
6/21/2001	NA	6.8		
6/28/2001	60	6.4		
7/5/2001		3.7		
7/11/2001		5.5		
7/19/2001		4.8		

A8: 541SJC501 – SJR @ Airport Way continued…

Date	TSS (mg/L)	TOC (mg/L)	Total Coli MPN	*E. coli* MPN
7/26/2001		5.2		
8/2/2001		4.6		
8/9/2001		7.7		
8/16/2001	58	5.7		
8/23/2001	54	7.7		
8/30/2001	28	9.9		
9/6/2001	32	10		
9/13/2001	33	8.4		
9/20/2001	NA	7.4		
9/27/2001	45	10		
10/4/2001	NA	8.6		
10/11/2001	41	13		
10/18/2001	42	14		
10/25/2001		4.8		
11/1/2001	42			
11/8/2001	40			
11/15/2001	41	6.1		
11/20/2001	39	NA		
11/29/2001	24	NA		
12/6/2001	35	3.7		
12/13/2001	21	1.9		
12/20/2001	18	3.1		
12/27/2001	24			
1/3/2002	97			
1/10/2002	60			
1/17/2002	26			
1/24/2002	18			
1/31/2002	14	NA		
2/7/2002	27	NA		
2/14/2002	25	NA		
2/21/2002	42			
2/28/2002	47	6.5		
3/7/2002	44			
3/7/2002	46	6.5		
3/14/2002	48	3.8		
3/21/2002	42	3.1		
3/28/2002	34	3.8		
4/4/2002	46	NA		
4/11/2002	37			
4/18/2002	35	18		
4/25/2002	39	NA		

A8: 541SJC501 – SJR @ Airport Way continued…

Date	TSS (mg/L)	TOC (mg/L)	Total Coli MPN	*E. coli* MPN
5/2/2002	38	3.8		
5/9/2002	55	NA		
5/16/2002	39	NA		
5/23/2002	35	NA		
5/30/2002	NA	2.6		
6/6/2002	64	1.6		
6/13/2002	NA	NA		
6/20/2002	62	2.9		
6/27/2002	80	5.6		
7/31/2002			>2419.6	33
8/15/2002		3.7		
8/22/2002		3.8		
8/29/2002	42			
9/5/2002		4.4		
9/12/2002	27	NA		
9/19/2002	37	NA		
9/26/2002	36	NA		
10/3/2002	25	3.1		
10/10/2002	36	2.7		
10/17/2002	43	3.2		
10/24/2002	51	2.0		
10/31/2002	37	2.8		
11/7/2002	42	NA		
11/14/2002	50	4.3		
11/21/2002	32	3.2		
11/26/2002	37	3.2		
12/5/2002	27	2.8		
12/12/2002	37	2.4		
12/19/2002	78	5.9		
12/24/2002	61			
1/2/2003	41			
1/9/2003	29			
1/16/2003	45		866	34
1/23/2003	32			
1/30/2003	42			
2/6/2003	26			
2/13/2003	30			
2/20/2003	34			
2/27/2003	53			
3/6/2003	65			
3/13/2003	NA	4.9		
3/20/2003	NA	4.5		

A8: 541SJC501 – SJR @ Airport Way continued…

Date	TSS (mg/L)	TOC (mg/L)	Total Coli MPN	*E. coli* MPN
3/27/2003	62	3.1		
4/3/2003	NA	NA		
4/10/2003	NA	2.4		
4/17/2003	48	2.8		
4/24/2003	43	3.7	>2419.6	214
5/1/2003	11	3.9		
5/8/2003	NA	3.0		
5/15/2003	52	2.8		
5/22/2003	32	2.2		
5/29/2003	45	3.8		
6/5/2003	51	4.3		
6/12/2003	54	2.3		
6/19/2003	42	2.7		
6/26/2003	42	3.3		
7/31/2003			>2419.6	46
8/28/2003			>2419.6	44
9/25/2003			>2419.6	46
10/30/2003			>2419.6	276
11/20/2003			>2419.6	52
1/29/2004			1986	33
2/26/2004			>2419.6	1300
3/11/2004		6.8		
3/18/2004		4.6		
3/25/2004			>2419.6	31
4/1/2004		5.0		
4/15/2004		3.3		
4/22/2004		3.0		
4/29/2004		3.1	2420	154
5/6/2004		2.9		
5/13/2004		3.0		
5/20/2004		3.4		
5/27/2004		6.8	>2419.6	111
6/3/2004		6.0		
6/10/2004		6.5		
6/17/2004		5	>2419.6	59
6/24/2004			>2419.6	66
7/1/2004		6.8		
7/8/2004		7.1	>2419.6	46
7/15/2004		4.5		
7/22/2004		3.2		
7/29/2004		4.3	>2419.6	74
8/5/2004		4.4		
8/12/2004		5.9	>2419.6	38
8/19/2004		4.1		

A8: 541SJC501 – SJR @ Airport Way continued…

Date	TSS (mg/L)	TOC (mg/L)	Total Coli MPN	*E. coli* MPN
8/26/2004			>2419.6	36
9/16/2004			>2419.6	24
9/30/2004			>2419.6	16
10/14/2004			>2419.6	201
10/28/2004	40	3.6	>2419.6	248
11/4/2004	41	4.5	>2419.6	96
11/11/2004	41	5.0		
11/18/2004	37	5.2	>2419.6	52
11/23/2004	25	4.6		
12/2/2004	14	3.9		
12/9/2004	31	4.9	>2419.6	142
12/16/2004	54	4.8		
12/22/2004	20	4.0	>2419.6	31
12/29/2004	50	4.2		
1/6/2005	110	10	1986	326
1/13/2005	150	9.4		
1/20/2005	73		>2419.6	39
1/27/2005	75	6.6		
2/3/2005	49	9.9	>2419.6	62
2/10/2005	48	5.2		
2/17/2005	160	7.2	>2419.6	>2419.6
2/24/2005	78	7.8		
3/3/2005	54	6.2		
3/10/2005	54	NA	457	37
3/17/2005	39	4.1		
3/24/2005	97	8.3	>2419.6	>2419.6
3/31/2005	43	5.0		
4/7/2005	28	3.1	2420	46
4/14/2005	46	NA		
4/21/2005	40	3.0	>2419.6	56
4/28/2005	39	NA		
5/5/2005	NA	2.8	>2419.6	61
5/12/2005	34	2.8		
5/19/2005	46	2.5	>2419.6	192
5/26/2005	30	2.6		
6/2/2005	12	4.0		
6/9/2005	37	NA	>2419.6	173
6/16/2005	55	2.9		
6/23/2005	58	2.9	>2419.6	63
6/30/2005	61	2.1		
7/7/2005	58	2.4	>2419.6	64
7/13/2005	58	2.4		
7/21/2005	56	2.7	>2419.6	33
7/28/2005	54	3.0		
8/4/2005	51	3.1	>2419.6	24

A8: 541SJC501 – SJR @ Airport Way continued…

Date	TSS (mg/L)	TOC (mg/L)	Total Coli MPN	*E. coli* MPN
8/11/2005	65	2.6		
8/18/2005	45	2.8	>2419.6	70
8/25/2005	44	3.3		
9/1/2005	54	2.8	>2419.6	55
9/8/2005	42	2.8	>2419.6	1733
9/15/2005	40	2.8		
9/21/2005			>2419.6	102
9/22/2005	27	NA		
9/29/2005	62	2.7		
Count	163	163	46	46
Min	11	0.5	457	16
Max	160	18	2420	2420
Mean	44	4.5	NA	NA
Geo Mean	40	3.9	2263	86
Median	42	3.8	2420	60
Quartile 1	33	2.8	2420	38
Quartile 3	52	5.2	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

A8: 541SJC501 – SJR @ Airport Way continued…

Date	Nitrate (mg/L)	Nitrate (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)
10/12/2000								1.1	2.0
10/26/2000	4.6		<2		0.2	<1	2.7	0.9	1.5
11/16/2000								1.1	2.2
11/30/2000	8.8		<2		0.2	<1	4.4	0.9	1.6
12/12/2000								1.2	1.9
12/28/2000	8.3		<2		0.2	<1	5.2	1.1	2.0
1/11/2001								1.4	2.3
1/25/2001	7.9		<2		0.2	<1	5.9	1.7	2.8
2/8/2001	10		<2		0.2	<1	6.3	1.5	1.7
2/10/2001	10		<2		0.2	<1	5.9	1.1	2.9
2/11/2001	10		<2		0.2	<1	5.8		
2/22/2001	7.4		<2		0.2	<1	4.3	1.4	2.2
3/15/2001	12		<2		0.3	<1	6.5	1.5	2.9
3/29/2001	8.3		<2		0.2	<1	5.5	1.9	3.3
4/19/2001	9.1		<2		0.2	<1	4.6	1.8	3.4
4/26/2001	4.5		<2	<1	0.1	<1	2.4	1.4	2.8
5/17/2001	3.8		<2		0.1	<1	2.5	1.1	1.9
5/31/2001	7.8		<1.0		0.2	NA	4.5	1.8	3.3
6/7/2001	8.8		<1.0		0.2	<1	4.4	3.5	5.5
6/14/2001	10		<2			<1	4.7	2.3	4.6
6/21/2001	7.1		<2		0.2	<1	4.7	4.3	6.9
6/28/2001	8.9		<2		0.2	<1	4.6	2.2	3.8
8/16/2001	7.8		<2		0.3	<1	4.1		
8/30/2001	8.4		<2		0.2	<1	4.9		
9/27/2001	10		<2		0.2	<1	4.8		
10/25/2001								0.7	1.8
11/29/2001	NA		NA		NA	0.1	5.2	0.8	1.3
12/13/2001								0.8	1.6

A8: 541SJC501 – SJR @ Airport Way continued…

Date	Nitrate (mg/L)	Nitrate (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)
12/27/2001	NA		0.5		0.2	0.1	4.3	1.1	2.1
1/17/2002								1.0	1.8
1/31/2002	NA		NA		0.2	NA	NA	1.1	1.9
2/14/2002								1.4	2.5
2/28/2002	NA		NA		NA	0.1	NA	1.5	2.6
3/14/2002								2.0	3.3
4/25/2002	NA		NA		0.2	NA	3.1	1.1	2.0
5/16/2002								0.9	1.6
5/30/2002	NA		NA		NA	0.1	NA	1.7	2.6
6/13/2002	7.1		NA		0.2	<1.0	4.2	2.5	4.9
6/20/2002	NA		0.7		0.2	0.1	4	4.1	7.6
8/29/2002	NA		0.8		<0.05	<0.03	5	5.1	8.5
9/26/2002	NA		0.6		NA	0.2	4.7	2.1	3.8
10/31/2002	NA		0.2		0.2	0.2	2.7	1.0	1.6
11/21/2002	NA		0.9		0.2	0.2	3.7	1.1	1.9
12/19/2002	NA		1.9		0.4	<0.03	6.7	4.6	6.6
1/30/2003	NA		0.7		0.2	0.2	2.7	1.1	1.7
2/27/2003	12		1.9		0.1	<1.0	6.4		
Count	23	NA	30	1	31	33	33	41	41
Min	3.8	NA	0.2	0.5	0.03	0.0	2.4	0.7	1.3
Max	12.0	NA	1.9	0.5	0.4	0.5	6.7	5.1	8.5
Mean	8.4	NA	0.9	0.5	0.2	0.4	4.6	1.7	3.0
Geo Mean	8.1	NA	0.9	0.5	0.2	0.3	4.4	1.5	2.6
Median	8.4	NA	1.0	0.5	0.2	0.5	4.6	1.4	2.3
Quartile 1	7.6	NA	0.8	0.5	0.2	0.2	4.1	1.1	1.9
Quartile 3	10.0	NA	1.0	0.5	0.2	0.5	5.2	1.9	3.3

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

A8: 541SJC501 – SJR @ Airport Way continued…

Date	Hardness (mg/L)	Total Arsenic (ug/L)	Total Cadmium (ug/L)	Total Chromium (ug/L)	Total Copper (ug/L)	Total Lead (ug/L)	Total Nickel (ug/L)	Total Zinc (ug/L)	Total Mercury (ug/L)
10/26/2000	140			2.1	2.2	<5	<5		
11/30/2000	170			1.2	1.3	<5	<5	4.0	
12/28/2000	190			<1	1.7	<5	<5	<2	
1/25/2001	220			1.6	2.5	<5	<5	3.3	
2/10/2001	210			1.3	2.2	<5	<5	<2	
2/11/2001	140			1.6	2.8	<5	<5	3.0	
2/22/2001	210			1.4	3.2	<5	<5	5.2	
3/29/2001	80			2.1	3.2	<5	<5	5.6	
4/26/2001	150			1.4	9.4	<5	<5	5.3	
5/31/2001	180			2.8	4.1	<5	<5	5.4	
6/7/2001	190	2.2	<1	2.5	3.6	<5	<5	6.3	<0.2
6/14/2001	NA	<2.0	<1	2.5	3.3	<5	<5	5.0	<0.2
6/21/2001	170	2.1	<1	1.7	2.1	<5	<5	3.0	<0.2
6/28/2001	160	3.4	<1	3.2	3.4	<5	5.1	6.2	<0.2
7/26/2001	160	NA	NA	2.6	2.8	<5	<5	4.5	NA
8/30/2001		2.4	<1	1.3	1.6	<5	<5	2.1	
9/27/2001		<4	<1	<1	4.1	<5	12	22	<0.2
10/25/2001	92	<4	<0.1	1.2	2.2	<5	<5	4.4	<0.2
11/29/2001	160	<4	<0.1	<1	<1	<5	<5	2.9	<0.2
12/27/2001	170	<4	<0.1	1.8	2.2	<5	<5	6.0	<0.2
1/31/2002		<4.0	<0.1	<1.0	NA	<5.0	<5.0	<2.0	<0.2
2/28/2002	230	<4.0	<0.1	2.5	4.9	<5.0	<5.0	5.7	<0.2
3/28/2002	220	<4.0	<0.1	1.3	2.7	<5.0	<5.0	7.7	<0.2
4/25/2002	91	<4.0	<0.1	<1.0	1.4	<5.0	<5.0	<2.0	<0.2
5/30/2002	120	<4.0	<0.1	2.3	3.2	<5.0	<5.0	4.6	<0.2
6/20/2002	170	<4.0	<0.1	3	3.3	<5.0	<5.0	5.0	<0.2
9/26/2002	180	4.9	<0.1	1.6	NA	<5.0	<5.0	2.5	<0.2

A8: 541SJC501 – SJR @ Airport Way continued…

Date	Hardness (mg/L)	Total Arsenic (ug/L)	Total Cadmium (ug/L)	Total Chromium (ug/L)	Total Copper (ug/L)	Total Lead (ug/L)	Total Nickel (ug/L)	Total Zinc (ug/L)	Total Mercury (ug/L)
10/31/2002	150	<4.0	<0.1	2.0	2.9	<5.0	<5.0	3.0	<0.2
11/21/2002	190	<4.0	<0.1	1.7	2.0	<5.0	<5.0	2.9	<0.2
3/27/2003	250	<4.0	NA	<1.0	2.6	<5.0	<5.0	2.1	<0.2
4/24/2003	99	<4.0	<0.1	NA	NA	NA	<5.0	3.9	<0.2
5/29/2003	110	<4.0	<0.1	<1.0	3.5	<5.0	<5.0	2.6	<0.2
6/26/2003	93	<4.0	<0.1	1.3	2.4	<5.0	<5.0	3.1	<0.2
Count	29	22	21	32	30	32	33	32	21
Min	80.0	1.0	0.1	0.5	0.5	2.5	2.5	1.0	0.1
Max	250.0	4.9	0.5	3.2	9.4	2.5	12.0	22.0	0.1
Mean	161.9	2.2	0.2	1.6	2.9	2.5	2.9	4.4	0.1
Geo Mean	155.1	2.1	0.1	1.4	2.6	2.5	2.7	3.6	0.1
Median	170.0	2.0	0.1	1.6	2.8	2.5	2.5	4.0	0.1
Quartile 1	140.0	2.0	0.1	1.2	2.2	2.5	2.5	2.8	0.1
Quartile 3	190.0	2.0	0.5	2.2	3.3	2.5	2.5	5.3	0.1

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

NA = Data not applicable
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A8: 541SJC501 – SJR @ Airport Way continued…

Date	Hardness (mg/L)	Dissolved Arsenic (ug/L)	Dissolved Cadmium (ug/L)	Dissolved Chromium (ug/L)	Dissolved Copper (ug/L)	Dissolved Lead (ug/L)	Dissolved Nickel (ug/L)	Dissolved Zinc (ug/L)	Dissolved Mercury (ug/L)
10/26/2000	140			<1	<1	<5	<5	<2	
11/30/2000	170			<1	<1	<5	<5	<2	
12/28/2000	190			<1	<1	<5	<5	4	
1/25/2001	220			<1	<1	<5	<5	<2	
2/10/2001	210			<1	<1	<5	<5	<2	
2/11/2001	140			<1	1	<5	<5	<2	
2/22/2001	210			<1	<1	<5	<5	<2	
3/29/2001	80			<1	1.4	<5	<5	<2	
4/26/2001	150			<1	<1	<5	<5	2.8	
5/31/2001	180			<1	<1	<5	<5	<2	
6/7/2001	190	<2	<1	<1	1.4	<5	<5	<2	<0.2
6/14/2001	NA	<2.0	<1	<1	1.1	<5	<5	<2	<0.2
6/21/2001	170	<2.0	<1	<1	<1	<5	<5	<2	<0.2
6/28/2001	160	3.0	<1	<1	<1	<5	<5	<2	<0.2
7/26/2001	160	NA	NA	NA	NA	NA	NA	NA	NA
8/30/2001		2.1	<1	<1	1.2	<5	<5	<2	
9/27/2001		<4	<1	<1	3.4	<5	12	21	<0.2
10/25/2001	92	<4	<0.1	<1	1.1	<5	<5	5.2	<0.2
11/29/2001	160	<4	<0.1	<1	<1	<5	<5	3.1	<0.2
12/27/2001	170	<4	<0.1	<1	<1	<5	<5	<2	<0.2
1/31/2002		<4.0	<0.1	<1.0	NA	<5.0	<5.0	<2.0	<0.2
2/28/2002	230	<4.0	<0.1	<1.0	1.9	<5.0	<5.0	<2.0	<0.2
3/28/2002	220	<4.0	<0.1	<1.0	1.5	<5.0	<5.0	3.2	<0.2
4/25/2002	91	<4.0	<0.1	<1.0	<1.0	<5.0	<5.0	NA	<0.2
5/30/2002	120	<4.0	<0.1	<1.0	1.6	<5.0	<5.0	<2.0	<0.2
6/20/2002	170	<4.0	<0.1	<1.0	2	<5.0	<5.0	<2.0	<0.2
9/26/2002	180	<4.0	<0.1	<1.0	2.3	<5.0	<5.0	<2.0	<0.2

A8: 541SJC501 – SJR @ Airport Way continued…

Date	Hardness (mg/L)	Dissolved Arsenic (ug/L)	Dissolved Cadmium (ug/L)	Dissolved Chromium (ug/L)	Dissolved Copper (ug/L)	Dissolved Lead (ug/L)	Dissolved Nickel (ug/L)	Dissolved Zinc (ug/L)	Dissolved Mercury (ug/L)
10/31/2002	150	<4.0	<0.1	<1.0	1.3	<5.0	<5.0	<2.0	<0.2
11/21/2002	190	<4.0	<0.1	<1.0	<1.0	<5.0	<5.0	<2.0	<0.2
3/27/2003	250								
4/24/2003	99								
5/29/2003	110								
6/26/2003	93								
Count	29	18	18	28	27	28	28	27	17
Min	80.0	1.0	0.1	0.5	0.5	2.5	2.5	1.0	0.1
Max	250.0	3.0	0.5	0.5	3.4	2.5	12.0	21.0	0.1
Mean	161.9	1.9	0.2	0.5	1.0	2.5	2.8	2.2	0.1
Geo Mean	155.1	1.8	0.1	0.5	0.9	2.5	2.6	1.4	0.1
Median	170.0	2.0	0.1	0.5	0.5	2.5	2.5	1.0	0.1
Quartile 1	140.0	2.0	0.1	0.5	0.5	2.5	2.5	1.0	0.1
Quartile 3	190.0	2.0	0.5	0.5	1.4	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
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A8: 541SJC501 – SJR @ Airport Way continued…

Date	Chloride (mg/L)	Sulfate (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	TDS (mg/L)	Carbonate (mg/L)	Bicarbonate (mg/L)	Total Alkalinity (mg/L)	Sodium (mg/L)
11/30/2000	75	69	31	16	410	<1	120	100	71
12/28/2000	99	94	36	19	430	<1	140	120	89
1/25/2001	120	120	40	22	540	<1	150	120	110
2/10/2001	400	470	47	24	550	<1	150	120	120
2/11/2001	120	130	45	24	540	<1	150	120	110
2/22/2001	81	100	31	16	340	<1	110	87	73
3/29/2001	110	130	44	24	540	<1	150	120	110
4/26/2001		40	18	9	210	4	50	54	30
5/31/2001	83	77	33	17	350	<1	92	92	67
6/7/2001	18	19	39	20	380	<1	120	100	81
6/14/2001	98	100	42	21	460	<1	130	110	90
6/21/2001	98	95	40	21	440	<1	140	120	86
6/28/2001	91	91	36	19	390	<1	130	100	73
8/30/2001	97	84	36	18	410	<1	140	110	79
9/27/2001	NA	75	35	18	390	<1	NA	NA	76
10/25/2001	49	42	20	10	240	<1	83	NA	42
11/29/2001	99	89	34	19	440	<1	130	110	89
12/27/2001	110	100	35	21	480	<1.0	140	120	99
2/28/2002	NA	160	49	26	510	<1.0	112	90	130
3/28/2002	130	140	45	25	630	<1.0	150	120	120
4/25/2002	47	51	20	10	180	<1.0	64	53	40
5/30/2002	64	63	27	13	270	<1.0	95	78	56
6/20/2002	96	97	36	19	NA	<1.0	130	110	82
9/26/2002	99	77	39	20	400	<1.0	150	120	85

A8: 541SJC501 – SJR @ Airport Way continued…

Date	Chloride (mg/L)	Sulfate (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	TDS (mg/L)	Carbonate (mg/L)	Bicarbonate (mg/L)	Total Alkalinity (mg/L)	Sodium (mg/L)
10/31/2002	85	69	31	16	370	<1.0	120	100	72
11/21/2002	120	100	39	22	520	<1.0	150	130	100
3/27/2003	160	170	52	29					
4/24/2003	51	59	22	11					
5/29/2003	58	57	24	12					
6/26/2003	45	47	21	10					
Count	27	30	30	30	25	26	25	24	26
Min	18	19	18	9	180	0.5	50	53	30
Max	400	470	52	29	630	4.0	150	130	130
Mean	100	100	35	18	420	0.6	120	100	84
Geo Mean	87	85	34	18	400	0.5	120	100	80
Median	97	90	36	19	410	0.5	130	110	84
Quartile 1	70	65	31	16	370	0.5	112	98	72
Quartile 3	110	100	40	22	510	0.5	150	120	100

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A8: 541SJC501 – SJR @ Airport Way continued…

	96h Acute Fathead Minnow (% Survival)		48h Acute Ceriodaphnia Dubia (% Survival)		Algae Cell Growth		
Date	Result	Control	Result	Control	Result (million/ml)	Control (million/ml)	MDD(%)
10/26/2000	100	100	NA	NA			
01/25/2001	95	100	100	100			
02/22/2001	95	100	100	100			
03/29/2001	100	100	100	100			
04/26/2001	100	100	100	90			
05/31/2001	85	90	100	100			
06/28/2001	85	100	100	100			
10/25/2001	100	100	100	100			
11/29/2001	NA	NA	100	100			
12/27/2001	95	100	100	100			
01/31/2002	100	100	100	100			
02/28/2002	100	100	100	100			
04/25/2002	100	100	100	100			
05/30/2002	100	100	100	100			
06/20/2002	100	100	100	100			
08/29/2002	100	100	100	100			
09/26/2002	100	95	100	100			
10/31/2002	100	100	100	100			
11/21/2002	100	100	100	100			
12/19/2002	100	100	100	100	2.19*	2.93	N/A
01/30/2003	100	100	100	100	5.32	3.07	N/A
03/27/2003	95	100	100	100	2.44**	1.73	N/A
05/29/2003	90	100	100	100	3.49**	2.03	1.4
11/18/2004					3.69**	1.79	24.0
12/22/2004					5.16**	1.95	N/A
01/20/2005					5.53**	1.92	7.2
02/17/2005					3.93**	1.78	12.0
03/24/2005					N/A	N/A	N/A
04/21/2005					2.32	1.63	3.1
05/18/2005					2.58	1.94	13.0
06/23/2005					N/A	N/A	N/A
07/21/2005					3.57**	1.72	13.0
08/18/2005					3.76**	1.76	18.0
09/22/2005					3.98	1.72	N/A
Count	22	22	22	22	13	13	8

* Significantly reduced from the lab control.
** Significantly greater than the lab control.
^ Fish were from a "forced hatch," duplicate failed QA.
[1] Duplicate sample for the set was low - 77% recovery.
[2] Testing for the Fathead minnow was initiated when samples were approx. 48h old due to untimely shipping of fish by fish supplier.
[3] Samples qualified, but duplicate sample recovery for the set was high - 126% (53.8%/42.5%)
NA = Data not applicable
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A8: 541SJC501 – SJR @ Airport Way continued…

	Chronic Fathead Minnow - 7day					Chronic Ceriodaphnia Dubia - 6 day				
Date	Result (% Survival)	Control (% Survival)	Avg Dry Weight Result (mg)	Avg Dry Weight Control (mg)	Growth MDD(%)	Result (% Survival)	Control (% Survival)	Avg # Young / Adult Result	Avg # Young / Adult Control	Repro MDD(%)
03/11/2004	96.7	97.5	0.59	0.60	12	100.0	100.0	22.0	20	31
03/25/2004	93.3	97.5	0.55*	0.68	11	100.0	100.0	25.8	20.9	N/A
04/15/2004	66.7*	97.5	0.38*	0.59	20	100.0	100.0	19.7	21.8	14
04/29/2004	23.3*	100.0	0.11*	0.62	14	100.0	100.0	24.9	20	12
05/13/2004	83.3*	100.0	0.56	0.68	22	100.0	100.0	24.0	17.3	29
05/27/2004	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
06/10/2004	100.0	97.6	0.55	0.58	13	100.0	100.0	28.2	25.2	15
06/24/2004	90.0	100.0	0.53	0.67	22	100.0	100.0	33.9	21.1	18
11/18/2004	92.9	100.0	0.55	0.46	20	90.0	100.0	16.7	18.4	16
12/22/2004	89.1	95.2	0.45*	0.61	N/A	100.0	100.0	19.0*	24.7	n/a
01/20/2005	92.3	97.4	0.75*	0.92	6.4	100.0	100.0	23.1	15.9	24
02/17/2005	95.0	97.5	0.35	0.38	17	90.0	100.0	21.3*	28.8	8.5
03/24/2005	85.0	97.5	0.43	0.41	16	100.0	100.0	13.1*	18.3	17
04/21/2005	N/A	N/A	N/A	N/A	N/A	100.0	100.0	14.6*	19.4	22
05/18/2005	62.5*	100.0	0.41*	0.62	13	100.0	100.0	14.7*	20.50	16
06/23/2005	N/A	N/A	N/A	N/A	N/A	100.0	100.0	22.7	20.9	13
07/21/2005	87.5*	100.0	0.59	0.62	7.2	100.0	100.0	30.3	22.1	13
08/18/2005	N/A	N/A	N/A	N/A	N/A	100.0	100.0	30.6	21.5	18
09/22/2005	85.0	97.5	0.28*	0.5	15.0	90.0	90.0	11.9*	19.9	17
Count	15	15	15	15	14	18	18	18	18	16

* 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.
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