

**APPENDIX F**  
**WESTSIDE BASIN**

**APPENDIX F: WESTSIDE BASIN**

F1: 541STC019 – Orestimba Creek @ River Road.....03-19

F2: 541STC515 – Salado Creek at HWY 33.....20-31

F3: 541STC516 – Del Puerto Creek at Vineyard Avenue.....32-42

F4: 541STC040 – Ingram Creek at River Road.....43-55

F5: 541STC042 – Hospital creek at River Road.....56-65

F6: 541STC030 – Grayson Road Drain at Grayson.....66-79

**F1: 541STC019 – Orestimba Creek @ River Road**

Station Code: 541STC019

Location: Latitude 37.41389, Longitude -121.01417

Date	Time	Temp (°C)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
10/26/2000	1:50 PM	15.2	562	7.8		
11/30/2000	10:20 AM	9.4	583	8.0		
12/28/2000	9:36 AM	5.6	637	8.0		
1/25/2001	10:15 AM	8.2	838	8.4		
2/7/2001	10:41 AM	8.4	769	7.3		
2/22/2001	11:20 AM	11.4	769	8.0		
3/13/2001	11:55 AM	16.4	703	7.9		
3/29/2001	12:50 PM	19.5	848	8.4		
4/18/2001	11:38 AM	17.9	921	7.9		
4/26/2001	12:15 PM	22.6	667	8.0		
5/15/2001	12:13 PM	20.0	607	7.4		
5/31/2001	9:50 AM	23.7	864	7.7		
6/6/2001	9:45 AM	19.8	848	7.4	7.3	
6/13/2001	10:25 AM	19.8	702	8.2	8.3	
6/28/2001	11:24 AM	21.7	720	8.1	7.8	
7/26/2001	10:38 AM	23.3	707	8.0	9.2	
8/2/2001	12:17 PM	22.6	750	7.9	8.2	
8/9/2001	11:03 AM	23.6	775	8.0	7.9	
8/14/2001	11:32 AM	20.1	902	8.1	9.4	
8/16/2001	12:16 PM	22.2	908	8.0	8.9	
8/23/2001	11:29 AM	21.3	895	8.0	9.6	
8/30/2001	12:13 PM	22.0	953	8.1	8.0	
9/6/2001	11:22 AM	20.0	1030	7.9	8.0	
9/13/2001	12:44 PM	19.8	1190	8.4	11.5	
9/20/2001	9:06 AM	18.9	1250	8.0	7.7	
9/27/2001	9:33 AM	18.5	827	7.9	8.0	
10/4/2001	10:13 AM	18.7	946	8.0	9.0	
10/11/2001	11:35 AM	17.3	653	8.0	9.4	
10/18/2001	11:23 AM	18.6	716	8.0	9.1	
10/25/2001	12:46 PM	15.1	692	8.0	10.5	
11/1/2001	12:05 PM	16.2	718	8.1	9.3	
11/8/2001	12:52 PM	13.3	792	8.3	11.1	
11/15/2001	10:27 AM	15.3	659	8.2	9.9	
11/20/2001	10:03 AM	14.2	638	8.0	9.9	
11/29/2001	10:50 AM	12.2	655	7.6	NA	
12/6/2001	11:30 AM	9.9	660	7.9	12.1	
12/13/2001	11:04 AM	8.1	808	7.6	11.5	

**F1: 541STC019 – Orestimba Creek @ River Road continued...**

Date	Time	Temp (°C)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
12/20/2001	9:18 AM	7.9	703	8.1	11.9	
12/27/2001	11:23 AM	9.7	749	8.0	12.0	
1/3/2002	11:54 AM	12.7	578	8.0	11.1	
1/10/2002	11:27 AM	11.0	591	8.2	12.0	
1/17/2002	11:06 AM	5.4	581	7.9	13.3	
1/24/2002	10:58 AM	5.0	634	8.2	6.0	
1/31/2002	9:53 AM	3.6	860	8.6	13.9	
2/7/2002	10:39 AM	9.9	644	8.2	12.5	
2/14/2002	11:13 AM	10.8	748	8.3	11.8	
2/21/2002	9:45 AM	12.6	669	8.3	11.0	
2/28/2002	11:47 AM	13.6	748	8.3	11.1	
3/7/2002	10:10 AM	13.4	717	8.2	10.2	
3/14/2002	12:01 PM	11.6	738	8.0	12.3	
3/21/2002	12:01 PM	14.8	894	8.4	12.3	
3/28/2002	2:17 PM	17.6	805	8.1	12.1	
4/4/2002	10:37 AM	16.7	997	8.3	9.0	
4/11/2002	12:47 PM	17.6	849	7.5	9.9	
4/18/2002	9:52 AM	12.0	1020	8.3	10.8	
4/25/2002	9:32 AM	15.9	710	8.0	9.2	
5/2/2002	9:57 AM	16.1	743	7.8	10.2	
5/9/2002	INA	INA	INA	INA	INA	
5/16/2002	11:20 AM	20.5	696	7.4	NA	NA
5/23/2002	8:50 AM	15.2	845	7.4	NA	
5/30/2002	12:29 PM	24.3	767	7.6	7.0	
6/6/2002	10:12 AM	22.6	750	8.2	6.6	
6/13/2002	9:54 AM	21.2	815	7.8	NA	
6/20/2002	10:02 AM	22.0	753	7.3	NA	
6/27/2002	11:30 AM	22.6	614	7.9	7.9	
7/3/2002	8:50 AM	22.3	699	8.3	NA	
7/11/2002	11:03 AM	25.8	572	7.8	NA	
7/18/2002	11:30 AM	22.4	583	7.9	8.3	490
7/25/2002	10:08 AM	20.9	732	7.9	8.0	
8/1/2002	11:15 AM	22.1	800	8.1	8.0	
8/8/2002	11:29 AM	20.2	763	8.0	9.9	
8/15/2002	10:37 AM	22.9	772	8.0	8.3	
8/22/2002	10:28 AM	19.6	808	8.0	8.8	
8/29/2002	10:11 AM	20.9	799	8.0	NA	
9/5/2002	10:11 AM	19.1	848	8.0	8.7	
9/12/2002	10:29 AM	19.1	913	7.9	9.2	
9/19/2002	10:26 AM	20.2	928	8.0	8.3	NA
9/26/2002	10:13 AM	19.5	899	8.0	9.1	

**F1: 541STC019 – Orestimba Creek @ River Road continued...**

<b>Date</b>	<b>Time</b>	<b>Temp (°C)</b>	<b>Field SC (umhos)</b>	<b>pH</b>	<b>Dissolved Oxygen (mg/L)</b>	<b>Turbidity (ntu)</b>
10/3/2002	10:38 AM	12.8	873	7.9	11.9	
10/10/2002	10:01 AM	17.2	828	8.1	9.1	
10/17/2002	10:27 AM	15.1	742	8.5	10.2	154
10/24/2002	9:12 AM	15.1	909	7.8	9.5	
10/31/2002	11:23 AM	12.7	750	8.0	9.3	113
11/7/2002	10:57 AM	13.6	671	8.0	10.4	
11/14/2002	11:11 AM	13.1	571	7.7	10.4	
11/21/2002	10:38 AM	12.3	516	7.9	10.3	67.6
11/26/2002	10:29 AM	9.4	801	8.0	10.9	
12/5/2002	10:15 AM	DRY	DRY	DRY	DRY	DRY
12/12/2002	10:05 AM	DRY	DRY	DRY	DRY	
12/19/2002	10:29 AM	7.8	361	7.7	12.6	49.4
12/24/2002	9:26 AM	6.8	363	7.8	12.9	
1/2/2003	10:18 AM	8.3	360	8.2	16.2	
1/9/2003	11:18 AM	DRY	DRY	DRY	DRY	
1/16/2003	12:00 PM	DRY	DRY	DRY	DRY	DRY
1/23/2003	DRY	DRY	DRY	DRY	DRY	
1/30/2003	11:41 AM	11.5	515	7.5	11.7	251
2/6/2003	9:06 AM	8.1	627	8.1	11.8	
2/13/2003	10:13 AM	11.2	876	8.0	11.0	70.6
2/20/2003	9:27 AM	9.3	891	8.3	12.5	24.6
2/27/2003	10:17 AM	13.1	717	8.1	10.3	
3/6/2003	1:06 PM	14.3	547	8.3	14.1	NA
3/13/2003	11:35 AM	17.0	879	8.5	13.4	42.3
3/20/2003	10:49 AM	15.1	1120	8.1	10.6	68.8
3/27/2003	10:50 AM	14.6	909	8.0	10.6	86.3
4/3/2003	11:04 AM	13.3	1000	7.8	10.6	44.5
4/10/2003	11:30 AM	17.1	761	8.7	10.2	113
4/17/2003	11:28 AM	15.9	953	7.9	9.5	236
4/24/2003	11:35 AM	16.4	791	8.1	9.0	189
5/1/2003	11:04 AM	16.2	700	8.0	10.5	NA
5/8/2003	10:32 AM	15.7	663	7.6	10.2	190
5/15/2003	10:35 AM	18.3	675	8.1	10.3	
5/22/2003	12:22 PM	22.6	660	8.0	8.8	216
5/29/2003	10:53 AM	23.5	748	7.9	8.0	
6/5/2003	12:20 PM	24.0	840	8.1	8.4	198
6/12/2003	11:15 AM	20.9	8	8.0	7.8	166
6/19/2003	12:07 PM	21.2	619	8.0	6.3	362
6/26/2003	11:14 AM	22.7	751	8.1	8.5	146
7/3/2003	10:53 AM	20.9	591	8.1	9.4	

**F1: 541STC019 – Orestimba Creek @ River Road continued...**

Date	Time	Temp (°C)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
7/10/2003	10:44 AM	22.8	421	7.9	7.9	
7/17/2003	10:59 AM	23.4	642	8.0	8.1	
7/24/2003	11:03 AM	24.9	448	7.9	8.0	810
7/31/2003	11:35 AM	23.8	684	7.9	8.1	280
8/7/2003	10:55 AM	21.3	482	8.1	8.9	405
8/14/2003	10:37 AM	21.5	500	7.9	8.6	
8/21/2003	10:29 AM	22.5	532	8.0	8.1	360
8/28/2003	11:02 AM	20.8	567	7.9	8.9	230
9/4/2003	10:22 AM	22.3	936	8.1	7.7	116
9/11/2003	1:22 PM	21.1	773	8.1	9.8	113
9/18/2003	11:15 AM	17.3	714	8.1	9.7	164
9/25/2003	11:59 AM	18.9	753	8.3	10.1	53.7
10/2/2003	11:21 AM	17.6	615	8.1	10.0	101
10/9/2003	11:09 AM	20.2	556	8.0	9.0	295
10/16/2003	10:14 AM	15.6	591	7.9	10.8	73.7
10/23/2003	12:20 PM	19.2	602	7.9	9.3	177
10/30/2003	10:24 AM	15.8	622	7.9	10.2	91.8
11/6/2003	11:25 AM	13.4	575	8.2	11.2	85.6
11/13/2003	9:46 AM	11.9	619	8.0	10.4	49.7
11/20/2003	11:05 AM	DRY	DRY	DRY	DRY	DRY
11/26/2003	9:48 AM	5.2	1200	8.0	11.3	14.1
12/4/2003	10:28 AM	DRY	DRY	DRY	DRY	DRY
12/11/2003	9:56 AM	9.6	1290	8.0	12.0	NA
12/18/2003	11:00 AM	DRY	DRY	DRY	DRY	DRY
12/23/2003	10:30 AM	DRY	DRY	DRY	DRY	DRY
12/30/2003	11:12 AM	7.5	499	7.9	12.7	NA
1/8/2004	9:45 AM	9.3	763	7.9	8.8	NA
1/15/2004	11:02 AM	9.3	651	8.1	11.5	NA
1/22/2004	10:30 AM	7.6	653	8.1	17.2	80.7
1/29/2004	11:23 AM	9.9	542	8.1	10.5	NA
2/5/2004	10:13 AM	8.0	630	8.0	15.3	32.7
2/12/2004	10:27 AM	9.1	679	8.0	13.5	NA
2/19/2004	10:02 AM	12.2	699	7.8	10.3	NA
2/26/2004	10:59 AM	11.0	287	7.3	10.7	NA
3/4/2004	10:15 AM	12.1	752	8.1	10.6	112
3/11/2004	11:11 AM	15.6	634	8.0	9.7	NA
3/18/2004	9:33 AM	17.4	729	7.9	10.5	
3/24/2004	11:58 AM	17.8	717	8.0	9.0	NA
4/1/2004	10:36 AM	13.2	824	8.0	10.2	

**F1: 541STC019 – Orestimba Creek @ River Road continued...**

Date	Time	Temp (°C)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
4/8/2004	11:04 AM	15.1	683	8.1	9.5	270
4/15/2004	11:17 AM	16.1	845	8.3	11.2	285
4/22/2004	11:05 AM	13.9	764	8.0	10.9	329
4/29/2004	11:56 AM	16.7	711	8.0	9.1	147
5/6/2004	11:48 AM	19.1	821	7.9	12.2	244
5/13/2004	11:55 AM	18.0	830	8.1	16.3	216
5/20/2004	11:07 AM	18.1	815	7.8	9.1	250
5/27/2004	12:04 PM	20.5	746	8.0	8.3	309
6/3/2004	11:35 AM	20.3	978	8.1	8.5	256
6/10/2004	11:33 AM	19.5	716	8.2	9.8	262
6/17/2004	11:54 AM	22.7	572	8.1	8.8	402
6/24/2004	11:57 AM	21.2	815	8.0	10.3	NA
7/1/2004	10:56 AM	21.6	740	8.0	10.1	NA
7/8/2004	10:54 AM	23.3	726	7.7	7.7	NA
7/15/2004	11:41 AM	21.9	661	8.2	9.7	NA
7/22/2004	9:53 AM	23.9	717	7.9	9.2	NA
7/29/2004	11:10 AM	22.9	653	8.0	9.2	NA
8/5/2004	10:17 AM	21.6	828	8.1	8.4	NA
8/12/2004	11:00 AM	23.4	800	8.2	9.0	NA
8/19/2004	9:40 AM	22.1	682	8.1	NA	NA
8/26/2004	11:54 AM	20.7	869	7.9	8.2	NA
9/2/2004	10:39 AM	20.7	957	7.9	8.7	NA
9/9/2004	8:59 AM	20.7	933	8.0	8.0	NA
9/16/2004	9:40 AM	19.2	1050	7.8	7.6	NA
9/23/2004	1:50 PM	21.3	869	7.9	9.5	NA
9/30/2004	11:03 AM	17.1	663	7.8	8.9	NA
10/28/2004	11:39 AM	12.9	573	8.2	10.6	
11/3/2004	11:35 AM	12.8	568	8.0	10.5	
11/17/2004	10:31 AM	12.6	521	7.8	9.5	
12/8/2004	9:23 AM	9.3	667	8.0	12.0	
12/21/2004	9:07 AM	7.7	759	8.1	12.8	
1/5/2005	9:42 AM	8.2	374	8.2	12.0	
1/19/2005	9:23 AM	8.4	820	8.0	11.6	
2/2/2005	10:09 AM	10.4	748	8.0	10.6	
2/16/2005	9:50 AM	12.0	290	8.0	9.5	
3/9/2005	9:53 AM	16.4	675	8.3	10.1	
3/22/2005	10:48 AM	14.9	704	8.2	10.0	
4/6/2005	9:33 AM	16.6	380	8.0	9.5	
4/20/2005	11:01 AM	16.1	742	8.9	8.9	
4/21/2005	11:10 AM	17.2	785	8.0	9.7	
5/4/2005	10:05 AM	19.1	741	8.1	8.5	

**F1: 541STC019 – Orestimba Creek @ River Road continued...**

Date	Time	Temp (°C)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
5/18/2005	9:31 AM	18.3	602	8.0	8.8	
6/8/2005	11:51 AM	19.2	461	8.0	9.3	
6/22/2005	10:14 AM	19.9	516	8.0	8.2	
7/6/2005	9:32 AM	23.0	513	7.9	7.7	
7/20/2005	9:11 AM	24.9	572	7.9	6.7	
8/3/2005	9:47 AM	22.9	626	7.9	8.5	
8/17/2005	9:08 AM	22.8	582	7.7	7.1	
9/7/2005	10:03 AM	19.5	769	7.8	8.2	
9/21/2005	10:18 AM	19.2	812	7.6	8.9	

<b>Count</b>	197	197	197	176	52
<b>Min</b>	3.6	8	7.3	6.0	14.1
<b>Max</b>	25.8	1290	8.9	17.2	810
<b>Mean</b>	16.6	723	8.0	9.9	190
<b>Geo Mean</b>	15.6	692	8.0	9.8	143
<b>Median</b>	17.3	720	8.0	9.7	165
<b>Quartile 1</b>	12.7	627	7.9	8.7	84.4
<b>Quartile 3</b>	20.9	820	8.1	10.8	258

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

**F1: 541STC019 – Orestimba Creek @ River Road continued...**

<b>Date</b>	<b>TSS (mg/L)</b>	<b>TOC (mg/L)</b>	<b>Total Coli MPN</b>	<b><i>E. coli</i> MPN</b>
10/26/2000	120	2.6		
11/30/2000	19	1.1		
12/28/2000	36	1.8		
1/25/2001	36	3.6		
2/22/2001	NA	2.1		
3/29/2001	73	<1		
4/26/2001		3.0		
5/31/2001	130	11		
6/28/2001	360	9.5		
7/26/2001		6.9		
8/30/2001	190	10		
9/27/2001	68	14		
<hr/>				
10/25/2001		7.5		
11/29/2001		NA		
12/27/2001	41			
1/31/2002		NA		
2/17/2002	48			
2/17/2002	38			
2/18/2002	49			
2/18/2002	46			
2/28/2002		6.3		
3/7/2002	170			
3/7/2002	130			
3/8/2002	115			
3/8/2002	79			
3/9/2002	10			
3/9/2002	10			
3/11/2002	84			
3/11/2002	53			
3/28/2002		4.8		
4/25/2002		NA		
5/30/2002		5.7		
6/20/2002		2.5		
8/1/2002			>2419.6	613
9/26/2002		NA		
<hr/>				
10/17/2002			>2419.6	488
10/31/2002		2.7		
11/21/2002		2.5		
12/19/2002		8.0		
1/16/2003			NA	NA
3/27/2003		1.9		

**F1: 541STC019 – Orestimba Creek @ River Road continued...**

<b>Date</b>	<b>TSS (mg/L)</b>	<b>TOC (mg/L)</b>	<b>Total Coli MPN</b>	<b><i>E. coli</i> MPN</b>
4/24/2003		4.5	>2419.6	517
5/29/2003		4.5		
6/26/2003		3.4		
7/31/2003			>2419.6	980
8/28/2003			>2419.6	1203
9/25/2003			>2419.6	411
10/30/2003			>2419.6	93
11/20/2003			DRY	DRY
1/29/2004			>2419.6	93
2/26/2004			>2419.6	2420
3/24/2004			>2419.6	185
4/29/2004			>2419.6	579
5/27/2004			>2419.6	921
6/24/2004			>2419.6	613
7/29/2004			>2419.6	387
8/26/2004			>2419.6	921
9/30/2004			>2419.6	613
10/28/2004		4.5	>2419.6	124
11/3/2004			>2419.6	113
11/17/2004	NA	5.8	>2419.6	88
12/8/2004			>2419.6	194
12/21/2004	39	4.6	>2419.6	328
1/5/2005			>2419.6	387
1/19/2005	63	5.0	>2419.6	96
2/2/2005			>2419.6	1986
2/16/2005	780	NA	1011	1011
3/9/2005			1553	40
3/22/2005	150	5.6	>2419.6	365
4/6/2005			>2419.6	96
4/20/2005	280	5.7	>2419.6	118
5/4/2005			>2419.6	980
5/18/2005	250	4.2	>2419.6	1046
6/8/2005			>2419.6	649

**F1: 541STC019 – Orestimba Creek @ River Road continued...**

<b>Date</b>	<b>TSS (mg/L)</b>	<b>TOC (mg/L)</b>	<b>Total Coli MPN</b>	<b><i>E. coli</i> MPN</b>
6/22/2005	190	NA	>2419.6	866
7/6/2005			>2419.6	649
7/20/2005	450	2.6	>2419.6	1120
8/3/2005			>2419.6	387
8/17/2005	140	5.1	>2419.6	2420
9/7/2005			>2419.6	179
9/21/2005	28	NA	>2419.6	1203
<b>Count</b>	32	33	39	39
<b>Min</b>	10	0.5	1011	40
<b>Max</b>	780	14	2420	2420
<b>Mean</b>	134	5.0	NA	NA
<b>Geo Mean</b>	81	4.1	2340	418
<b>Median</b>	76	4.5	2420	517
<b>Quartile 1</b>	41	2.6	2420	182
<b>Quartile 3</b>	155	5.8	2420	951

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

F1: 541STC019 – Orestimba Creek @ River Road continued...

Date	Nitrate (mg/L)	Nitrate-N (mg/L)	TKN (mg/L)	Ammonia-N (mg/L)	Phosphorus (mg/L)	Ortho- phosphate- P (mg/L)	Potassium (mg/L)	BOD 5-Day (mg/L)	BOD 10-Day (mg/L)
10/26/2000	4.3		<2		NA	<1	5.2	1.2	1.8
11/30/2000	NA		<2		0.1	NA	NA	0.6	1
12/28/2000	5.2		<2		<0.1	<1	5.7	0.5	0.9
1/25/2001	7.1		<2		<0.1	<1	6.3	0.9	1.7
2/22/2001	11		<2		0.1	<1	6.8	0.9	2.1
3/29/2001	8.2		<2		0.2	<1	7.8	2.3	4
4/26/2001	9.2		<2	<1	0.4	<1	6	1.9	2.8
5/31/2001	19		<1.0		0.3	NA	9.4	4	6.5
6/28/2001	16		<2		0.4	<1	7.3	1.1	1.7
8/30/2001	20		<2		0.4	<1	7.9		
9/27/2001	11		<2		0.2	<1	9.2		
10/25/2001								0.8	1.6
11/29/2001	NA		NA		NA	0.1	6.6	1.3	2
12/27/2001								1	2.5
1/31/2002								1.2	1.7
2/28/2002								1.3	2.1
4/25/2002								2.2	3.6
5/30/2002								4	6.2
6/20/2002								1.1	1.8
8/29/2002								3	8.4
9/26/2002								1.6	2.6
10/31/2002								1	1.5
11/21/2002								1.7	3.2
12/19/2002								1.3	1.7
1/30/2003								2.7	4.3

**F1: 541STC019 – Orestimba Creek @ River Road continued...**

Date	Nitrate (mg/L)	Nitrate-N (mg/L)	TKN (mg/L)	Ammonia-N (mg/L)	Phosphorus (mg/L)	Ortho- phosphate- P (mg/L)	Potassium (mg/L)	BOD 5-Day (mg/L)	BOD 10-Day (mg/L)
<b>Count</b>	10	NA	11	1	10	10	11	23	23
<b>Min</b>	4.3	NA	0.5	0.5	0.1	0.1	5.2	0.5	0.9
<b>Max</b>	20.0	NA	1.0	0.5	0.4	0.5	9.4	4.0	8.4
<b>Mean</b>	11.1	NA	1.0	0.5	0.2	0.5	7.1	1.6	2.9
<b>Geo Mean</b>	9.9	NA	0.9	0.5	0.2	0.4	7.0	1.4	2.4
<b>Median</b>	10.1	NA	1.0	0.5	0.2	0.5	6.8	1.3	2.1
<b>Quartile 1</b>	7.4	NA	1.0	0.5	0.1	0.5	6.2	1.0	1.7
<b>Quartile 3</b>	14.8	NA	1.0	0.5	0.4	0.5	7.9	2.1	3.4

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

**F1: 541STC019 – Orestimba Creek @ River Road continued...**

Date	Hardness (mg/L)	Total Arsenic (ug/L)	Total Cadmium (ug/L)	Total Chromium (ug/L)	Total Copper (ug/L)	Total Lead (ug/L)	Total Nickel (ug/L)	Total Zinc (ug/L)	Total Mercury (ug/L)
10/26/2000	130			7	6.4	<5	11.0	12	
11/30/2000	140			2.7	2.5	<5	<5	8.6	
12/28/2000	140			3.4	4.3	<5	6.6	6.4	
1/25/2001	170			3	4.3	<5	<5	4.4	
2/22/2001	180			2.8	6.1	<5	6.8	9.2	
3/29/2001	220			8.2	6.7	<5	14.0	11	
4/26/2001	180			12	10	<5	16.0	19	
5/31/2001	300			10	9.1	<5	14.0	14	
6/28/2001	290	NA	<1	21	18	6.5	25.0	42	<0.2
7/26/2001		NA	NA	21	16	6.1	28.0	37	NA
8/30/2001	280	4.1	<1	15	11	<5	18.0	21	
9/27/2001	220	<4	<1	1.1	3.2	<5	<5	<2	<0.2
10/25/2001	150	<4	<0.1	4.7	5.4	<5	7.9	8.5	<0.2
11/29/2001	140	<4	<0.1	4.2	3.8	<5	<5	6.7	<0.2
12/27/2001		<4	<0.1	6.7	6.9	<5	9.3	11	<0.2
1/31/2002		<4.0	<0.1	3.7	NA	<5.0	<5.0	<2.0	<0.2
2/28/2002		<4.0	<0.1	5	6.9	<5.0	7.6	7.2	<0.2
3/28/2002		<4.0	<0.1	4.4	5	<5.0	8.0	6.3	<0.2
4/25/2002		<4.0	<0.1	<1.0	4.1	<5.0	<5.0	<2.0	<0.2
5/30/2002		5	<0.1	49	31	12	91.0	65	<0.2
6/20/2002	290	<4.0	<0.1	17	13	<5.0	21.0	23	<0.2
9/26/2002	250	4.4	<0.1	13	NA	<5.0	18.0	20	<0.2
10/31/2002	160	<4.0	<0.1	6	6.3	<5.0	7.3	8.9	<0.2
11/21/2002	200	<4.0	<0.1	6.3	6.5	<5.0	9.2	9.1	<0.2
3/27/2003	310	<4.0	NA	5.9	3.7	<5.0	<5.0	3.0	<0.2
4/24/2003	240	<4.0	<0.1	NA	NA	NA	25.0	22	<0.2
5/29/2003	270	<4.0	0.2	22	16	5.7	28.0	29	<0.2
6/26/2003	290	<4.0	<0.1	11	7.4	<5.0	12.0	13	<0.2

**F1: 541STC019 – Orestimba Creek @ River Road continued...**

Date	Hardness (mg/L)	Total Arsenic (ug/L)	Total Cadmium (ug/L)	Total Chromium (ug/L)	Total Copper (ug/L)	Total Lead (ug/L)	Total Nickel (ug/L)	Total Zinc (ug/L)	Total Mercury (ug/L)
<b>Count</b>	21	18	18	27	25	27	28	28	18
<b>Min</b>	130.0	2.0	0.1	0.5	2.5	2.5	2.5	1.0	0.1
<b>Max</b>	310.0	5.0	0.5	49.0	31.0	12.0	91.0	65.0	0.1
<b>Mean</b>	216.7	2.4	0.1	9.9	8.5	3.3	14.3	15.0	0.1
<b>Geo Mean</b>	207.8	2.3	0.1	6.6	7.1	2.9	9.2	9.7	0.1
<b>Median</b>	220.0	2.0	0.1	6.3	6.5	2.5	9.3	10.1	0.1
<b>Quartile 1</b>	160.0	2.0	0.1	4.0	4.3	2.5	5.6	6.6	0.1
<b>Quartile 3</b>	280.0	2.0	0.1	12.5	10.0	2.5	18.0	20.3	0.1

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

NA = Data not applicable

INA = Site was inaccessible

DRY = Site had no flow

F1: 541STC019 – Orestimba Creek @ River Road continued...

Date	Hardness (mg/L)	Dissolved Arsenic (ug/L)	Dissolved Cadmium (ug/L)	Dissolved Chromium (ug/L)	Dissolved Copper (ug/L)	Dissolved Lead (ug/L)	Dissolved Nickel (ug/L)	Dissolved Zinc (ug/L)	Dissolved Mercury (ug/L)
10/26/2000	130			<1	2.1	<5	<5	2.3	
11/30/2000	140			<1	1.6	<5	<5	<2	
12/28/2000	140			<1	1.1	<5	<5	<2	
1/25/2001	170			<1	1.6	<5	<5	<2	
2/22/2001	180			<1	2.8	<5	<5	<2	
3/29/2001	220			<1	3.4	<5	<5	<2	
4/26/2001	180			<1	1.8	<5	<5	<2	
5/31/2001	300			3.1	3	<5	<5	<2	
6/28/2001	290	NA	<1	2.9	<1	<5	<5	<2	<0.2
7/26/2001		NA	NA	NA	NA	NA	NA	NA	NA
8/30/2001	280	2.2	<1	4.2	4.9	<5	<5	16	
9/27/2001	220	<4	<1	1.3	2.3	<5	<5	<2	<0.2
10/25/2001	150	<4	<0.1	<1	1.9	<5	<5	<2	<0.2
11/29/2001	140	<4	<0.1	<1	3	<5	<5	4.5	<0.2
12/27/2001		<4	<0.1	<1	2.1	<5	<5	3.4	<0.2
1/31/2002		<4.0	<0.1	2.6	NA	<5.0	<5.0	<2.0	<0.2
2/28/2002		<4.0	<0.1	<1.0	3.1	<5.0	<5.0	4.7	<0.2
3/28/2002		<4.0	<0.1	1.5	2.9	<5.0	<5.0	3.7	<0.2
4/25/2002		4.1	<0.1	2.6	3	<5.0	<5.0	NA	<0.2
5/30/2002		<4.0	<0.1	1.6	4	<5.0	53	<2.0	<0.2
6/20/2002	290	<4.0	<0.1	2.3	1.9	<5.0	<5.0	<2.0	<0.2
9/26/2002	250	<4.0	<0.1	1.2	3.2	<5.0	<5.0	<2.0	<0.2
10/31/2002	160	<4.0	<0.1	1.3	2.3	<5.0	<5.0	<2.0	<0.2
11/21/2002	200	<4.0	<0.1	<1.0	<1.0	<5.0	<5.0	<2.0	<0.2

**F1: 541STC019 – Orestimba Creek @ River Road continued...**

Date	Hardness (mg/L)	Dissolved Arsenic (ug/L)	Dissolved Cadmium (ug/L)	Dissolved Chromium (ug/L)	Dissolved Copper (ug/L)	Dissolved Lead (ug/L)	Dissolved Nickel (ug/L)	Dissolved Zinc (ug/L)	Dissolved Mercury (ug/L)
<b>Count</b>	17	14	15	23	22	23	23	22	14
<b>Min</b>	130.0	2.0	0.1	0.5	0.5	2.5	2.5	1.0	0.1
<b>Max</b>	300.0	4.1	0.5	4.2	4.9	2.5	53.0	16.0	0.1
<b>Mean</b>	202.4	2.2	0.1	1.3	2.4	2.5	4.7	2.3	0.1
<b>Geo Mean</b>	194.4	2.1	0.1	1.0	2.1	2.5	2.9	1.5	0.1
<b>Median</b>	180.0	2.0	0.1	0.5	2.3	2.5	2.5	1.0	0.1
<b>Quartile 1</b>	150.0	2.0	0.1	0.5	1.8	2.5	2.5	1.0	0.1
<b>Quartile 3</b>	250.0	2.0	0.1	2.0	3.0	2.5	2.5	2.0	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

**F1: 541STC019 – Orestimba Creek @ River Road continued...**

Date	Chloride (mg/L)	Sulfate (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	TDS (mg/L)	Carbonate (mg/L)	Bicarbonate (mg/L)	Total Alkalinity (mg/L)	Sodium (mg/L)
10/26/2000	77	54	24	16	320	<1	110	90	60
11/30/2000	75	53	28	17	350	<1	110	90	59
12/28/2000	97	57	27	17	330	<1	110	90	71
1/25/2001	120	97	33	21	430	<1	130	110	94
2/22/2001	96	100	36	20	440	<1	120	97	87
3/29/2001	86	130	46	26	520	<1	150	120	86
4/26/2001		89	37	22	410	<1	110	110	62
5/31/2001	74	120	64	34	550	<1	170	170	64
6/28/2001	60	150	60	35	420	<1	190	160	56
8/30/2001	110	91	56	34	550	<1	210	170	85
9/27/2001	NA	74	42	28	500	<1	NA	NA	89
10/25/2001	120	46	27	19	380	<1	120	NA	79
11/29/2001	100	59	27	18	380	<1	110	94	75
3/27/2003	91	120	66	35					
4/24/2003	90	110	50	27					
5/29/2003	70	110	56	31					
6/26/2003	53	120	63	33					
<b>Count</b>	15	17	17	17	13	13	12	11	13
<b>Min</b>	53	46	24	16	320	0.5	110	90	56
<b>Max</b>	120	150	66	35	550	0.5	210	170	94
<b>Mean</b>	88	93	44	25	430	0.5	140	120	74
<b>Geo Mean</b>	86	88	41	25	420	0.5	130	120	73
<b>Median</b>	90	97	42	26	420	0.5	120	110	75
<b>Quartile 1</b>	75	59	28	19	380	0.5	110	92	62
<b>Quartile 3</b>	99	120	56	33	500	0.5	160	140	86

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

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**F1: 541STC019 – Orestimba Creek @ River Road continued...**

Date	96h Acute Fathead Minnow (% Survival)		48h Acute Ceriodaphnia Dubia (% Survival)		Algae Cell Growth		
	Result	Control	Result	Control	Result (million/ml)	Control (million/ml)	MDD (%)
10/26/2000	100	100	NA	NA			
6/18/2001	100	100	100	90			
11/17/2004	100	100	100	100			
12/21/2004	100	100	100	100			
1/19/2005	100	100	100	100			
2/16/2005	100	100	100	100			
3/22/2005	95	100	100	100			
4/2/2005	100	97.5	100	100			
5/18/2005	97.5	97.5	0*	100			
6/22/2005	97.5	100	100	100			
7/20/2005	100	100	100	100			
8/17/2005	100	97.5	100	100			
9/21/2005	100	100	100	100			
<b>Count</b>	13	13	12	12	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.

<sup>1</sup> Duplicate sample for the set was low - 77% recovery.

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

<sup>3</sup> 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

**F2: 541STC515 – Salado Creek at HWY 33**

Station Code: 541STC515

Location: Latitude 37.48139, Longitude -121.13556

Date	Time	Temp (°C)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
10/24/2000	2:35 PM	20.0	622	7.7		
11/29/2000	10:30 AM	8.8	1140	6.6		
12/27/2000	10:20 AM	5.1	1420	7.4		
1/24/2001	10:00 AM	10.5	787	7.7		
2/21/2001	10:50 AM	14.0	787	7.8		
3/28/2001	12:25 PM	20.8	969	8.2		
4/25/2001	10:10 AM	21.6	1010	8.0		
5/30/2001	11:45 AM	23.5	843	7.7		
6/27/2001	11:08 AM	20.9	971	8.1	10.0	
7/25/2001	11:27 AM	23.6	922	8.2	8.5	
8/29/2001	12:21 PM	25.3	699	8.0	8.4	
9/26/2001	10:43 AM	19.1	1020	8.2	9.5	
10/24/2001	11:46 AM	13.4	1250	8.4	12.9	
11/28/2001	10:30 AM	11.6	830	8.1	11.1	
12/26/2001	10:45 AM	11.7	832	8.5	12.1	
1/30/2002	10:53 AM	7.9	1040	8.3	13.1	
2/27/2002	10:15 AM	14.8	1460	8.1	11.4	
3/27/2002	10:03 AM	13.0	570	7.7	10.2	
4/30/2002	10:47 AM	15.8	841	8.3	11.8	
5/29/2002	10:25 AM	21.7	898	8.0	8.4	
6/19/2002	10:12 AM	20.8	543	7.8	7.7	
7/30/2002	10:35 AM	22.3	824	8.3	8.4	43.5
8/28/2002	11:00 AM	25.2	762	8.6	NA	
9/25/2002	11:33 AM	21.7	674	8.3	9.1	
10/15/2002	10:05 AM	16.4	811	7.9	9.4	NA
10/30/2002	10:23 AM	14.7	714	7.4	10.1	
11/20/2002	10:18 AM	15.1	1030	8.2	11.5	
12/18/2002	9:55 AM	9.7	1250	8.1	11.1	1990
1/14/2003	12:28 PM	13.0	1450	8.2	11.1	111
1/29/2003	10:37 AM	11.3	1320	8.8	14.3	19.1
3/25/2003	9:40 AM	15.0	741	8.2	11.5	19.2
4/24/2003	1:19 PM	15.9	454	8.3	10.4	248
5/29/2003	12:20 PM	25.4	759	8.1	8.7	33.6
6/26/2003	11:51 AM	24.5	359	8.4	8.8	27.4
7/31/2003	12:35 PM	INA	INA	INA	INA	INA
8/28/2003	12:42 PM	22.7	684	8.3	10.6	630
9/25/2003	12:40 PM	21.2	732	8.5	9.3	695
10/30/2003	12:32 PM	18.8	1180	8.4	9.1	200
11/20/2003	12:41 PM	15.3	1450	8.6	14.9	14.4

**F2: 541STC515 – Salado Creek at HWY 33 continued...**

Date	Time	Temp (°C)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
1/29/2004	12:20 PM	12.5	996	8.4	14.4	24.6
2/26/2004	11:53 AM	11.4	648	8.2	11.4	NA
3/24/2004	12:15 PM	18.6	498	9.0	9.6	NA
4/29/2004	12:43 PM	17.3	622	8.3	10.3	32
5/27/2004	12:41 PM	23.5	994	8.7	9.5	66.4
6/24/2004	1:11 PM	26.0	736	8.4	10.5	NA
7/29/2004	11:57 AM	23.8	496	8.7	9.6	
8/26/2004	12:46 PM	23.3	1020	8.7	9.1	
9/30/2004	12:00 PM	19.5	1220	8.3	9.5	
10/28/2004	12:28 PM	17.1	1800	8.0	9.4	
11/3/2004	11:58 AM	16.7	527	8.2	6.0	
11/17/2004	11:11 AM	16.7	1440	8.4	11.3	
12/8/2004	9:47 AM	12.4	315	8.2	11.6	
12/21/2004	9:34 AM	13.7	1020	8.4	11.6	
1/5/2005	10:03 AM	8.9	1930	8.1	10.7	
1/19/2005	9:48 AM	9.0	1320	8.2	10.9	
2/2/2005	11:02 AM	10.5	3860	8.3	10.8	
2/16/2005	10:18 AM	12.0	398	7.9	9.5	
3/9/2005	10:11 AM	14.1	4160	8.3	11.8	
3/22/2005	11:19 AM	14.3	778	8.2	10.2	
4/6/2005	10:18 AM	15.2	1070	8.2	10.7	
4/20/2005	12:00 PM	17.7	874	8.2	8.7	
5/4/2005	10:46 AM	18.8	734	8.4	9.5	
5/18/2005	11:41 AM	17.4	907	8.3	10.8	
6/8/2005	12:45 PM	20.5	557	8.7	10.1	
6/22/2005	11:40 AM	22.1	798	8.3	8.7	
7/6/2005	10:25 AM	23.0	434	7.9	8.1	
7/20/2005	10:19 AM	23.4	493	7.9	7.2	
8/3/2005	10:40 AM	23.4	607	8.3	8.7	
8/17/2005	10:00 AM	23.4	533	8.4	8.8	
9/7/2005	10:43 AM	20.7	725	8.4	8.8	
9/21/2005	11:25 AM	21.1	123	8.2	10.9	

<b>Count</b>	70.0	70	70.0	61.0	15
<b>Min</b>	5.1	123	6.6	6.0	14.4
<b>Max</b>	26.0	4160	9.0	14.9	1990
<b>Mean</b>	17.4	961	8.2	10.2	277
<b>Geo Mean</b>	16.6	838	8.2	10.1	82.2
<b>Median</b>	17.4	827	8.2	10.1	43.5
<b>Quartile 1</b>	13.5	655	8.1	9.1	26.0
<b>Quartile 3</b>	21.7	1040	8.4	11.1	224

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

**F2: 541STC515 – Salado Creek at HWY 33 continued...**

<b>Date</b>	<b>TSS (mg/L)</b>	<b>TOC (mg/L)</b>	<b>Total Coli MPN</b>	<b><i>E. coli</i> MPN</b>
10/24/2000	83	3.2		
11/29/2000	NA	<1		
12/27/2000	<6	4.1		
1/24/2001	7	20		
2/21/2001	6	NA		
3/28/2001	210	NA		
4/25/2001	37	3.8		
5/30/2001	94	6.3		
6/27/2001	11	7.1		
7/25/2001		4.7		
8/29/2001	NA	6.2		
9/26/2001	NA	11		
11/28/2001		NA		
12/26/2001		6.0		
3/27/2002		NA		
4/30/2002		NA		
5/29/2002		3.8		
6/19/2002		NA		
7/30/2002			>2419.6	74
9/25/2002		NA		
10/15/2002			>2419.6	172
10/30/2002		2.6		
11/20/2002		1.9		
12/18/2002	3200			
1/14/2003			>2419.6	816
3/25/2003		3.4		
4/24/2003		NA	>2419.6	1414
5/29/2003		5.8		
6/26/2003		3.1		
7/31/2003			INA	INA
8/28/2003			>2419.6	70
9/25/2003			>2419.6	>2419.6
10/30/2003			>2419.6	>2419.6
11/20/2003			>2419.6	59
1/29/2004			>2419.6	276
2/26/2004			>2419.6	>2419.6
3/24/2004			>2419.6	157
4/29/2004			>2419.6	58
5/27/2004			>2419.6	140
6/24/2004			>2419.6	249
7/29/2004	NA	NA	>2419.6	411
8/26/2004	NA	NA	>2419.6	488

**F2: 541STC515 – Salado Creek at HWY 33 continued...**

<b>Date</b>	<b>TSS (mg/L)</b>	<b>TOC (mg/L)</b>	<b>Total Coli MPN</b>	<b><i>E. coli</i> MPN</b>
9/30/2004	NA	NA	>2419.6	84
10/28/2004	NA	4.1	145	2
11/3/2004	500	30	>2419.6	>2419.6
11/17/2004	NA	2.2	2420	62
12/8/2004	97	12	>2419.6	>2419.6
12/21/2004	5	1.0	1120	20
1/5/2005	7	9.3	>2419.6	770
1/19/2005	3	1.5	411	13
2/2/2005	28	9.5	>2419.6	548
2/16/2005	1500	NA	>2419.6	>2419.6
3/9/2005	2	11	>2419.6	416
3/22/2005	100	7.6	>2419.6	>2419.6
4/6/2005	10	3.1	>2419.6	579
4/20/2005	41	6.6	>2419.6	162
5/4/2005	76	4.4	>2419.6	104
5/18/2005	5	3.6	>2419.6	162
6/8/2005	14	NA	>2419.6	105
6/22/2005	37	NA	>2419.6	140
7/6/2005	67	5.2	>2419.6	387
7/20/2005	35	4.0	>2419.6	387
8/3/2005	77	3.5	>2419.6	548
8/17/2005	42	3.3	>2419.6	613
9/7/2005	100	3.1	>2419.6	687
9/21/2005	36	NA	>2419.6	1203
<b>Count</b>	30	36	40	40
<b>Min</b>	2	0.5	145	2
<b>Max</b>	3200	30	2420	2420
<b>Mean</b>	214	6.1	NA	NA
<b>Geo Mean</b>	35	4.5	2117	288
<b>Median</b>	37	4.1	2420	387
<b>Quartile 1</b>	8	3.2	2420	105
<b>Quartile 3</b>	91	6.7	2420	782

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

F2: 541STC515 – Salado Creek at HWY 33 continued...

Date	Nitrate (mg/L)	Nitrate-N (mg/L)	TKN (mg/L)	Ammonia-N (mg/L)	Phosphorus (mg/L)	Ortho- phosphate- P (mg/L)	Potassium (mg/L)	BOD 5-Day (mg/L)	BOD 10-Day (mg/L)
10/24/2000	6.9		<2		0.2	<1	6.6	0.8	1.3
11/29/2000	23		NA		0.4	<1	9	1.3	2.2
12/27/2000	9.9		<2		0.1	<1	10	1.8	2.9
1/24/2001	6.8		2.1		0.2	<1	7.9	8.2	14.9
2/21/2001	2.9		<2		0.2	<1	6.1	1.5	2.9
3/28/2001	7.9		<2		0.3	<1	7.9	2.2	3.5
4/25/2001	15		<2		0.1	<1	6.8	1.7	3.5
5/30/2001	11		<2		0.2	<1	5	1.9	3.1
6/27/2001	17		<2		0.1	<1	4.8	0.9	1.1
8/29/2001	4.6		<2		0.4	<1	NA		
9/26/2001	19		<2		0.4	<1	11		
10/24/2001	9.1		<2		0.2	<1	12	1.7	3.1
11/28/2001	NA		1.4		NA	0.2	12	1.2	1.8
12/26/2001								2	2.8
1/30/2002	NA		1.3		0.1	0.1	7.3	1	1.6
2/27/2002	NA		0.6		0.2	0.2	NA	0.3	1.3
3/27/2002	NA		0.8		NA	0.1	3.9	1.1	2.2
4/30/2002	NA		NA		0.1	0.1	NA	0.5	0.9
5/29/2002	NA		0.8		NA	0.1	5.3	1.9	3
6/19/2002	NA		1		0.2	NA	4.5	4.4	6.8
8/28/2002	NA		1		0.1	0.1	4.8	0.2	0.6
9/25/2002	NA		NA		0.1	0.1	5.8	1.5	2.6
10/30/2002	NA		NA		<0.05	0.1	3.3	1	1.3
11/20/2002	NA		1		0.1	0.1	3.9		
12/18/2002	NA		2.4		0.2	0.1	6.5	8.3	14
1/29/2003	NA		NA		0.1	0.1	6.9	1.1	2.2

**F2: 541STC515 – Salado Creek at HWY 33 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)
<b>Count</b>	12	NA	20	NA	22	24	22	23	23
<b>Min</b>	2.9	NA	0.6	NA	0.03	0.1	3.3	0.2	0.6
<b>Max</b>	23.0	NA	2.4	NA	0.4	0.5	12.0	8.3	14.9
<b>Mean</b>	11.1	NA	1.1	NA	0.2	0.3	6.9	2.0	3.5
<b>Geo Mean</b>	9.5	NA	1.1	NA	0.2	0.2	6.4	1.4	2.5
<b>Median</b>	9.5	NA	1.0	NA	0.2	0.4	6.6	1.5	2.6
<b>Quartile 1</b>	6.9	NA	1.0	NA	0.1	0.1	4.9	1.0	1.5
<b>Quartile 3</b>	15.5	NA	1.0	NA	0.2	0.5	7.9	1.9	3.1

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

F2: 541STC515 – Salado Creek at HWY 33 continued...

Date	Hardness (mg/L)	Total Arsenic (ug/L)	Total Cadmium (ug/L)	Total Chromium (ug/L)	Total Copper (ug/L)	Total Lead (ug/L)	Total Nickel (ug/L)	Total Zinc (ug/L)	Total Mercury (ug/L)
10/24/2000	150			5.5	9.8	<5	7.4	14	
11/29/2000	320			16	16	5.2	18	39	
12/27/2000	430			9.6	3.7	<5	<5	<2	
1/24/2001	170			13	16	<5	9.2	36	
2/21/2001	220			1.1	3.5	<5	<5	<2	
3/28/2001	230			9.7	13	<5	19	23	
4/25/2001	270			5.9	5.2	<5	5.5	4.8	
5/30/2001	200			6.2	5.2	<5	8.2	8.3	
7/25/2001	NA			17	17	<5	17	32	
8/29/2001		4.2	<1	12	20	5.3	18	29	
9/26/2001	290	6.4	0.1	29	45	12	41	70	<0.2
10/24/2001	390	<4.0	<0.1	NA	6	<5.0	<5.0	4.0	<0.2
11/28/2001	210	<4.0	<0.1	3.5	1.8	<5.0	<5.0	4.5	<0.2
12/26/2001	200	<4	<0.1	1.8	2.9	<5	<5	4.0	<0.2
1/30/2002	290	<4	<0.1	5.7	3.8	<5	<5	<2	<0.2
3/27/2002	140	<4.0	<0.1	1.3	5.5	<5.0	5.8	6.9	<0.2
4/30/2002	230	<4.0	<0.1	4.1	1.6	<5.0	<5.0	<2.0	<0.2
5/29/2002	240	<4.0	<0.1	4.3	NA	<5.0	5.8	2.6	<0.2
6/19/2002	160	<4.0	<0.1	5.9	9	<5.0	8.4	12	<0.2
9/25/2002	150	4.3	<0.1	13	NA	5.2	35	26	<0.2
10/30/2002	170	<4.0	<0.1	5.4	NA	<5.0	13	8.1	<0.2
11/20/2002	260	<4.0	<0.1	6.2	3.3	<5.0	NA	NA	<0.2
3/25/2003	180	<4.0	<0.1	1.3	14	<5.0	<5.0	7.5	<0.2
4/24/2003	120	<4.0	<0.1	24	15	<5.0	75	27	<0.2
5/29/2003	190	<4.0	<0.1	2.8	4.1	<5.0	5.8	2.2	<0.2
6/26/2003	93	<4.0	<0.1	1.9	3.1	<5.0	<5.0	3.6	NA

**F2: 541STC515 – Salado Creek at HWY 33 continued...**

<b>Date</b>	<b>Hardness (mg/L)</b>	<b>Total Arsenic (ug/L)</b>	<b>Total Cadmium (ug/L)</b>	<b>Total Chromium (ug/L)</b>	<b>Total Copper (ug/L)</b>	<b>Total Lead (ug/L)</b>	<b>Total Nickel (ug/L)</b>	<b>Total Zinc (ug/L)</b>	<b>Total Mercury (ug/L)</b>
<b>Count</b>	24	17	17	25	23	26	25	25	15
<b>Min</b>	93.0	2.0	0.1	1.1	1.6	2.5	2.5	1.0	0.1
<b>Max</b>	430.0	6.4	0.5	29.0	45.0	12.0	75.0	70.0	0.1
<b>Mean</b>	221.0	2.5	0.1	8.2	9.8	3.2	12.6	14.7	0.1
<b>Geo Mean</b>	207.7	2.3	0.1	5.7	6.8	2.9	7.2	7.4	0.1
<b>Median</b>	205.0	2.0	0.1	5.9	5.5	2.5	5.8	7.5	0.1
<b>Quartile 1</b>	167.5	2.0	0.1	3.5	3.6	2.5	2.5	3.6	0.1
<b>Quartile 3</b>	262.5	2.0	0.1	12.0	14.5	2.5	17.0	26.0	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

**F2: 541STC515 – Salado Creek at HWY 33 continued...**

Date	Hardness (mg/L)	Dissolved Arsenic (ug/L)	Dissolved Cadmium (ug/L)	Dissolved Chromium (ug/L)	Dissolved Copper (ug/L)	Dissolved Lead (ug/L)	Dissolved Nickel (ug/L)	Dissolved Zinc (ug/L)	Dissolved Mercury (ug/L)
11/29/2000	320			2.8	1.1	<5	<5	<2	
12/27/2000	430			9.3	3.7	<5	<5	<2	
1/24/2001	170			7.1	8.3	<5	<5	3.3	
2/21/2001	220			<1	3.1	<5	<5	<2	
3/28/2001	230			<1	3.2	<5	<5	<2	
4/25/2001	270			4.1	2.4	<5	<5	<2	
5/30/2001	200			2.6	1.6	<5	<5	<2	
8/29/2001		2.1	<1	<1	2.2	<5	<5	7.1	
9/26/2001	290	<4	<0.1	3.7	2.9	<5	<5	<2	<0.2
10/24/2001	390	<4.0	<0.1	NA	5.6	<5.0	<5.0	<2.0	<0.2
11/28/2001	210	<4.0	<0.1	3.6	2.1	<5.0	<5.0	NA	<0.2
12/26/2001	200	<4	<0.1	1.7	2.6	<5	<5	6.1	<0.2
1/30/2002	290	<4	<0.1	3.9	2.0	<5	<5	<2	<0.2
3/27/2002	140	<4.0	<0.1	<1.0	4.1	<5.0	<5.0	5.1	<0.2
4/30/2002	230	<4.0	<0.1	3.7	<1.0	<5.0	<5.0	<2.0	<0.2
5/29/2002	240	<4.0	<0.1	2.7	1.5	<5.0	<5.0	<2.0	<0.2
6/19/2002	160	<4.0	<0.1	2.9	4.7	<5.0	<5.0	6.7	<0.2
9/25/2002	150	<4.0	<0.1	<1.0	NA	10	18	<2.0	<0.2
10/30/2002	170	<4.0	<0.1	1.2	2.9	<5.0	<5.0	<2.0	<0.2
11/20/2002	260	<4.0	<0.1	4.1	1.3	<5.0	<5.0	<2.0	<0.2
<b>Count</b>	19	13	13	19	19	20	20	19	12
<b>Min</b>	140.0	2.0	0.1	0.5	0.5	2.5	2.5	1.0	0.1
<b>Max</b>	430.0	2.1	0.5	9.3	8.3	10.0	18.0	7.1	0.1
<b>Mean</b>	240.5	2.0	0.1	2.9	2.9	2.9	3.3	2.2	0.1
<b>Geo Mean</b>	229.6	2.0	0.1	2.0	2.5	2.7	2.8	1.6	0.1
<b>Median</b>	230.0	2.0	0.1	2.8	2.6	2.5	2.5	1.0	0.1
<b>Quartile 1</b>	185.0	2.0	0.1	0.9	1.8	2.5	2.5	1.0	0.1
<b>Quartile 3</b>	280.0	2.0	0.1	3.8	3.5	2.5	2.5	2.2	0.1

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

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

F2: 541STC515 – Salado Creek at HWY 33 continued...

Date	Chloride (mg/L)	Sulfate (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	TDS (mg/L)	Carbonate (mg/L)	Bicarbonate (mg/L)	Total Alkalinity (mg/L)	Sodium (mg/L)
10/24/2000	76	66	29	18	350	<1	120	90	63
11/29/2000	150	140	50	47	660	<1	200	160	120
12/27/2000	110	380	80	56	940	11	220	180	150
1/24/2001	94	120	35	19	450	<1	110	90	93
2/21/2001	66	160	36	31	490	<1	120	100	76
3/28/2001	110	130	47	28	510	<1	150	130	110
4/25/2001	110	NA	48	36	NA	<1	130	130	94
5/30/2001	91	120	32	29	NA	4	122	126	94
6/27/2001	110	160	38	32	580	<1	180	150	110
8/29/2001	110	NA	NA	NA	370	<1.0	110	99	80
9/26/2001	NA	NA	46	42	NA	<1	170	140	110
10/24/2001	150	250	73	51	870	<1	200	160	140
11/28/2001	110	120	41	27	500	<1	150	120	88
12/26/2001	100	130	39	25	490	24	140	120	87
1/30/2002	100	180	51	39	580	<1	200	160	120
2/27/2002	150	330	72	69	NA	<1.0	192	157	140
3/27/2002	67	70	30	16	330	<1.0	120	95	60
4/30/2002	130	130	39	32	NA	<1.0	110	90	81
5/29/2002	97	140	45	32	NA	<1.0	140	110	100
6/19/2002	66	71	28	22	NA	<1.0	110	88	52
9/25/2002	120	47	25	21	NA	<1.0	100	84	87
10/30/2002	110	67	28	24	410	<1.0	120	100	84
11/20/2002	97	82	43	37	620	<1.0	130	100	100
3/25/2003	88	110	37	21					
4/24/2003	32	50	22	15					
5/29/2003	96	110	37	23					
6/26/2003	40	40	19	11					

**F2: 541STC515 – Salado Creek at HWY 33 continued...**

<b>Date</b>	<b>Chloride (mg/L)</b>	<b>Sulfate (mg/L)</b>	<b>Calcium (mg/L)</b>	<b>Magnesium (mg/L)</b>	<b>TDS (mg/L)</b>	<b>Carbonate (mg/L)</b>	<b>Bicarbonate (mg/L)</b>	<b>Total Alkalinity (mg/L)</b>	<b>Sodium (mg/L)</b>
<b>Count</b>	26	24	26	26	15	23	23	23	23
<b>Min</b>	32	40	19	11	330	0.5	100	84	52
<b>Max</b>	150	380	80	69	940	24	220	180	150
<b>Mean</b>	99	130	41	31	543	2.1	150	120	97
<b>Geo Mean</b>	94	110	39	28	520	0.7	140	120	94
<b>Median</b>	100	120	39	29	500	0.5	130	120	94
<b>Quartile 1</b>	89	71	31	21	430	0.5	120	97	83
<b>Quartile 3</b>	110	150	47	37	600	0.5	180	150	110

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

NA = Data not applicable

INA = Site was inaccessible

DRY = Site had no flow

**F2: 541STC515 – Salado Creek at HWY 33 continued...**

Date	96h Acute Fathead Minnow (% Survival)		48h Acute Ceriodaphnia Dubia (% Survival)		Algae Cell Growth		
	Result	Control	Result	Control	Result (million/ml)	Control (million/ml)	MDD (%)
11/17/2004	100	100	100	100			
12/21/2004	95	100	100	100			
1/19/2005	100	100	100	100			
2/16/2005	100	100	100	100			
3/22/2005	95	100	100	100			
4/20/2005	100	97.5	100	100			
5/18/2005	97.5	97.5	100	100			
6/22/2005	100	100	100	100			
7/20/2005	100	100	100	100			
8/17/2005	97.5	97.5	100	100			
9/21/2005	100	100	100	100			
<b>Count</b>	11	11	11	11	N/A	N/A	N/A

\* Significantly reduced from the lab control.

\*\* Significantly greater than the lab control.

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

<sup>1</sup> Duplicate sample for the set was low - 77% recovery.

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

<sup>3</sup> 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

**F3: 541STC516 – Del Puerto Creek at Vineyard Avenue**

Station Code: 541STC516

Location: Latitude 37.52139, Longitude -121.14861

Date	Time	Temp (°C)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
10/24/2000	2:15 PM	20.6	594	8.0		
11/29/2000	10:11 AM	9.3	1100	7.6		
12/27/2000	10:30 AM	6.7	819	8.0		
1/24/2001	DRY	DRY	DRY	DRY		
2/7/2001	12:02 PM	8.5	637	8.1		
2/21/2001	11:28 AM	12.0	1030	8.2		
3/13/2001	12:18 PM	17.4	792	7.6		
3/28/2001	11:50 AM	21.5	1280	7.9		
4/18/2001	12:40 PM	21.3	956	8.3		
4/25/2001	9:54 AM	20.4	669	7.9		
5/15/2001	12:45 PM	23.8	572	7.9		
5/30/2001	11:30 AM	24.7	1190	7.2		
6/5/2001	9:23 AM	19.0	1350	8.1	8.1	
6/19/2001	10:22 AM	24.3	1350	7.9	8.5	
6/27/2001	10:45 AM	21.1	1130	7.8	8.0	
7/25/2001	11:02 AM	25.0	988	8.1	8.3	
8/14/2001	11:57 AM	21.7	1350	7.8	4.5	
8/29/2001	12:05 PM	23.8	1020	7.9	6.4	
9/26/2001	10:28 AM	18.0	690	7.3	7.3	
10/24/2001	11:22 AM	12.5	743	8.1	11.1	
11/28/2001	10:10 AM	DRY	DRY	DRY	DRY	
12/26/2001	10:35 AM	DRY	DRY	DRY	DRY	
1/30/2002	DRY	DRY	DRY	DRY	DRY	
2/27/2002	DRY	DRY	DRY	DRY	DRY	
3/27/2002	9:47 AM	13.2	1290	7.8	12.6	
4/30/2002	10:33 AM	18.0	1090	8.2	11.0	
5/29/2002	10:08 AM	21.8	1010	7.9	8.3	
6/19/2002	9:53 AM	20.5	1090	7.8	6.8	
7/30/2002	10:49 AM	21.9	771	8.2	7.1	16.8
8/28/2002	10:50 AM	23.8	907	7.8	NA	
9/25/2002	11:09 AM	20.9	1110	7.8	8.6	
10/15/2002	10:21 AM	14.8	1430	7.6	8.5	NA
10/30/2002	9:42 AM	12.0	801	7.6	10.9	
11/20/2002	DRY	DRY	DRY	DRY	DRY	
12/18/2002	9:38 AM	7.3	835	8.3	11.2	67.6
1/14/2003	DRY	DRY	DRY	DRY	DRY	DRY
1/29/2003	DRY	DRY	DRY	DRY	DRY	DRY
3/25/2003	9:29 AM	14.0	464	8.1	11.5	122
4/24/2003	1:38 PM	15.7	945	8.2	10.5	70.6

**F3: 541STC516 – Del Puerto Creek at Vineyard Avenue continued...**

Date	Time	Temp (°C)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
5/29/2003	12:36 PM	26.2	1160	8.1	8.5	70.4
6/26/2003	12:06 PM	25.1	1070	8.5	9.1	106
7/31/2003	12:52 PM	25.6	727	7.6	5.2	54.6
8/28/2003	12:50 PM	DRY	DRY	DRY	DRY	DRY
9/25/2003	12:53 PM	21.7	743	8.4	9.3	88.0
10/30/2003	12:44 PM	14.4	605	8.7	12.0	9.8
11/20/2003	1:03 PM	15.7	1860	8.2	9.9	37.3
1/29/2004	12:29 PM	12.9	1570	8.6	14.8	5.7
2/26/2004	12:04 PM	11.0	459	8.4	11.3	NA
3/24/2004	12:29 PM	19.0	541	8.9	10.3	NA
4/29/2004	1:01 PM	21.3	962	8.3	9.9	89.0
5/27/2004	12:58 PM	25.9	1210	8.7	9.2	244
6/24/2004	1:23 PM	27.6	1160	8.0	6.9	NA
7/29/2004	12:07 PM	24.0	930	7.9	7.5	
8/26/2004	1:01 PM	25.4	1490	8.4	8.1	
9/30/2004	12:13 PM	21.3	1440	8.2	9.8	
10/28/2004	12:40 PM	12.2	576	8.7	12.0	
11/2/2004	8:29 AM	9.7	563	7.9	14.1	
11/16/2004	9:03 AM	13.4	421	7.7	9.2	
12/8/2004	8:57 AM	9.7	1030	7.4	6.6	
12/21/2004	7:59 AM	6.8	577	8.0	11.9	
1/4/2005	8:22 AM	8.0	760	8.5	11.2	
1/18/2005	8:28 AM	8.4	853	8.5	17.8	
2/1/2005	8:36 AM	DRY	DRY	DRY	DRY	
2/15/2005	8:10 AM	11.4	207	8.2	13.5	
3/8/2005	8:34 AM	12.3	780	8.5	11.5	
3/23/2005	8:52 AM	12.1	669	8.5	12.6	
4/5/2005	8:32 AM	13.5	356	8.4	10.6	
4/19/2005	8:52 AM	11.6	664	7.7	10.9	
5/3/2005	8:17 AM	16.8	557	7.9	10.0	
5/17/2005	8:49 AM	18.3	471	7.8	9.1	
6/8/2005	8:28 AM	18.2	378	7.7	8.3	
6/21/2005	9:13 AM	19.0	749	8.1	8.9	
7/6/2005	10:35 AM	22.6	917	7.8	7.7	
7/19/2005	9:16 AM	22.9	817	7.9	6.6	
8/2/2005	10:30 AM	23.6	436	7.8	6.8	
8/16/2005	10:50 AM	22.6	726	8.0	8.0	
9/6/2005	11:10 AM	21.7	376	7.9	9.1	
9/20/2005	10:49 AM	19.4	640	8.0	10.3	

**F3: 541STC516 – Del Puerto Creek at Vineyard Avenue continued...**

Date	Time	Temp (°C)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
<b>Count</b>		68	68	68	56	13
<b>Min</b>		6.7	207	7.2	4.5	5.7
<b>Max</b>		27.6	1860	8.9	17.8	244
<b>Mean</b>		17.7	874	8.0	9.6	75.5
<b>Geo Mean</b>		16.7	808	8.0	9.3	51.0
<b>Median</b>		19.0	818	8.0	9.2	70.4
<b>Quartile 1</b>		12.5	629	7.8	8.1	37.3
<b>Quartile 3</b>		22.1	1090	8.2	11.1	89.0

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

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

**F3: 541STC516 – Del Puerto Creek at Vineyard Avenue continued...**

<b>Date</b>	<b>TSS (mg/L)</b>	<b>TOC (mg/L)</b>	<b>Total Coli MPN</b>	<b><i>E. coli</i> MPN</b>
10/24/2000	38	3.7		
11/29/2000	NA	2.1		
12/27/2000	73	1.8		
2/21/2001	8	NA		
3/28/2001	9	NA		
4/25/2001	38	4.8		
5/30/2001	370	7.8		
6/27/2001	150	9.1		
7/25/2001		7.1		
8/29/2001	NA	19		
9/26/2001	NA	8.7		
3/27/2002		NA		
4/30/2002		NA		
5/29/2002		4.6		
6/19/2002		NA		
7/30/2002			>2419.6	548
9/25/2002		NA		
10/15/2002			>2419.6	>2419.6
10/30/2002		3.2		
12/18/2002		7.0		
1/14/2003			DRY	DRY
3/25/2003		3.0		
4/24/2003		NA	>2419.6	649
5/29/2003		7.3		
6/26/2003		5.2		
7/31/2003			>2419.6	>2419.6
8/28/2003			DRY	DRY
9/25/2003			>2419.6	158
10/30/2003			>2419.6	>2419.6
11/20/2003			>2419.6	>2419.6
1/29/2004			1300	93
2/26/2004			>2419.6	>2419.6
3/24/2004			>2419.6	1203
4/29/2004			>2419.6	>2419.6
5/27/2004			>2419.6	1733
6/24/2004			>2419.6	2420
7/29/2004	NA	NA	>2419.6	>2419.6
8/26/2004	NA	NA	>2419.6	194
9/30/2004	NA	NA	>2419.6	127
10/28/2004	NA	9.1	>2419.6	101
11/2/2004	22	5.4	>2419.6	1986
11/16/2004	40	4.8	>2419.6	1553

**F3: 541STC516 – Del Puerto Creek at Vineyard Avenue continued...**

<b>Date</b>	<b>TSS (mg/L)</b>	<b>TOC (mg/L)</b>	<b>Total Coli MPN</b>	<b><i>E. coli</i> MPN</b>
12/8/2004	55	12	>2419.6	276
12/21/2004	48	5.0	>2419.6	192
1/4/2005	20	6.2	>2419.6	649
1/18/2005	6	3.7	2420	387
2/1/2005	DRY	DRY	DRY	DRY
2/15/2005	660	5.2	>2419.6	>2419.6
3/8/2005	8	3.0	1986	921
3/23/2005	43	NA	>2419.6	>2419.6
4/5/2005	60	5.3	>2419.6	2420
4/19/2005	180	NA	>2419.6	>2419.6
5/3/2005	79	4.9	>2419.6	>2419.6
5/17/2005	77	NA	>2419.6	>2419.6
6/8/2005	NA	NA	>2419.6	649
6/21/2005	270	3.7	>2419.6	73
7/6/2005	43	5.0	>2419.6	>2419.6
7/19/2005	83	3.1	>2419.6	1203
8/2/2005	37	3.2	>2419.6	548
8/16/2005	90	2.7	>2419.6	727
9/6/2005	160	2.8	>2419.6	365
9/20/2005	26	3.5	>2419.6	105
<b>Count</b>	27	33	38	38
<b>Min</b>	6	1.8	1300	73
<b>Max</b>	660	19	2420	2420
<b>Mean</b>	100	5.5	NA	NA
<b>Geo Mean</b>	52	4.8	2368	819
<b>Median</b>	48	4.9	2420	1203
<b>Quartile 1</b>	32	3.2	2420	371
<b>Quartile 3</b>	86.5	7	2420	2420

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



F3: 541STC516 – Del Puerto Creek at Vineyard 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)
10/24/2000	7.5		<2		0.2	<1	4.5	0.9	1.7
11/29/2000	12		NA		0.1	<1	5.8	0.7	0.9
12/27/2000	8.5		<2		0.2	<1	6.0	1.4	2.2
2/21/2001	<2		<2		<0.1	<1	4.1	0.9	1.4
3/28/2001	38		<2		<0.1	<1	5.7	1.1	1.5
4/25/2001	7.4		<2		0.3	<1	9.7	3.4	6.2
5/30/2001	20		2.4		0.5	<1	11	6.9	12.0
6/27/2001	73		<2		0.4	<1	8.5	3.2	8.1
8/29/2001	37		3.8		0.3	<1	NA		
9/26/2001	4.7		<2		0.2	<1	6.9		
10/24/2001	5.0		<2		0.1	<1	5.3	1.1	1.9
11/28/2001	NA		4.9		NA	3.5	16		
3/27/2002	NA		0.9		NA	0.1	5.6	2.2	3.6
4/30/2002	NA		NA		0.3	0.2	NA	1.5	2.5
5/29/2002	NA		1.4		NA	0.3	7.4	3.1	4.6
6/19/2002	NA		2.3		0.6	NA	6.1	6.2	11.5
8/28/2002	NA		16		0.3	0.2	5.7	1.9	8.2
9/25/2002	NA		NA		0.3	0.3	7.5	1.2	2.0
10/30/2002	NA		NA		0.2	0.1	2.8	0.9	1.5
12/18/2002	NA		0.7		0.1	0.1	2.6	0.9	1.3
<b>Count</b>	11	NA	16	NA	17	19	18	17	17
<b>Min</b>	1.0	NA	0.7	NA	0.1	0.1	2.6	0.7	0.9
<b>Max</b>	73.0	NA	16.0	NA	0.6	3.5	16.0	6.9	12.0
<b>Mean</b>	19.5	NA	2.5	NA	0.2	0.5	6.7	2.2	4.2
<b>Geo Mean</b>	11.0	NA	1.6	NA	0.2	0.4	6.1	1.7	3.0
<b>Median</b>	8.5	NA	1.0	NA	0.2	0.5	5.9	1.4	2.2
<b>Quartile 1</b>	6.2	NA	1.0	NA	0.1	0.3	5.4	0.9	1.5
<b>Quartile 3</b>	28.5	NA	2.3	NA	0.3	0.5	7.5	3.1	6.2

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

**F3: 541STC516 – Del Puerto Creek at Vineyard 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)
10/24/2000	62			2.9	3.5	<5	6.8	4.7	
11/29/2000	140			<1	1.1	<5	<5	<2	
12/27/2000	97			4.2	5.4	<5	9.0	9.1	
2/21/2001	160			1.3	2.8	<5	<5	<2	
3/28/2001	170			7.4	2.4	<5	<5	<2	
4/25/2001	NA			2.5	5.9	<5	7.2	4.7	
5/30/2001	180			24	22	<5	48	33	
7/25/2001				17	15	<5	37	60	
8/29/2001	NA	2.8	<1	6.2	6.6	<5	15	8.5	
9/26/2001	NA	<4	<0.1	1.4	2.5	<5	<5	2.5	<0.2
10/24/2001	91	<4.0	<0.1	NA	2.0	<5.0	<5.0	<2.0	<0.2
3/27/2002	220	<4.0	<0.1	3.5	6.2	<5.0	12	7.7	<0.2
4/30/2002	170	<4.0	<0.1	1.4	2.0	<5.0	<5.0	<2.0	<0.2
5/29/2002	130	<4.0	<0.1	6.5	NA	<5.0	15	<2.0	<0.2
6/19/2002	170	<4.0	<0.1	5.9	4.3	<5.0	6.1	<2.0	<0.2
9/25/2002	130	6.3	<0.1	2.9	NA	<5.0	8.0	5.2	<0.2
10/30/2002	99	<4.0	<0.1	2.4	NA	<5.0	6.4	2.6	<0.2
3/25/2003	55	<4.0	<0.1	6.0	6.8	<5.0	13	8.9	<0.2
4/24/2003	140	<4.0	<0.1	5.9	6.3	<5.0	13	8.6	<0.2
5/29/2003	170	<4.0	<0.1	5.7	6.4	<5.0	11	5.2	<0.2
6/26/2003	170	<4.0	<0.1	7.3	7.0	<5.0	15	10	NA
<b>Count</b>	17	13	13	20	18	21	21	21	11
<b>Min</b>	55.0	2.0	0.1	0.5	1.1	2.5	2.5	1.0	0.1
<b>Max</b>	220.0	6.3	0.5	24.0	22.0	2.5	48.0	60.0	0.1
<b>Mean</b>	138.5	2.4	0.1	5.7	6.0	2.5	11.3	8.5	0.1
<b>Geo Mean</b>	130.2	2.2	0.1	4.0	4.6	2.5	7.7	4.0	0.1
<b>Median</b>	140.0	2.0	0.1	5.0	5.7	2.5	8.0	4.7	0.1
<b>Quartile 1</b>	99.0	2.0	0.1	2.5	2.6	2.5	2.5	1.0	0.1
<b>Quartile 3</b>	170	2.0	0.1	6.3	6.6	2.5	13	8.6	0.1

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

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

**F3: 541STC516 – Del Puerto Creek at Vineyard 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)
11/29/2000	140			<1	<1	<5	<5	<2	
12/27/2000	97			<1	1.2	<5	<5	<2	
2/21/2001	160			<1	1.5	<5	<5	<2	
3/28/2001	170			6.7	2.3	<5	<5	<2	
4/25/2001	NA			<1	3.5	<5	<5	2.6	
5/30/2001	180			3.8	2.1	<5	<5	<2	
8/29/2001	NA	2.2	<1	1.0	2.0	<5	<5	4.2	
9/26/2001	NA	<4	<0.1	<1	2.4	<5	<5	4.4	<0.2
10/24/2001	91	<4.0	<0.1	NA	1.4	<5.0	<5.0	<2.0	<0.2
3/27/2002	220	<4.0	<0.1	<1.0	3.4	<5.0	<5.0	3.0	<0.2
4/30/2002	170	<4.0	<0.1	1.4	1.4	<5.0	<5.0	<2.0	<0.2
5/29/2002	130	<4.0	<0.1	<1.0	2.5	<5.0	<5.0	<2.0	<0.2
6/19/2002	170	<4.0	<0.1	2.6	2.0	<5.0	<5.0	<2.0	<0.2
9/25/2002	130	5.5	<0.1	<1.0	NA	<5.0	<5.0	<2.0	<0.2
10/30/2002	99	<4.0	<0.1	<1.0	2.1	<5.0	<5.0	<2.0	<0.2
<b>Count</b>	12	9	9	14	14	15	15	15	8
<b>Min</b>	91.0	2.0	0.1	0.5	0.5	2.5	2.5	1.0	0.1
<b>Max</b>	220.0	5.5	0.5	6.7	3.5	2.5	2.5	4.4	0.1
<b>Mean</b>	146.4	2.4	0.1	1.4	2.0	2.5	2.5	1.7	0.1
<b>Geo Mean</b>	141.5	2.3	0.1	0.9	1.8	2.5	2.5	1.4	0.1
<b>Median</b>	150.0	2.0	0.1	0.5	2.1	2.5	2.5	1.0	0.1
<b>Quartile 1</b>	122.3	2.0	0.1	0.5	1.4	2.5	2.5	1.0	0.1
<b>Quartile 3</b>	170	2	0.05	1.3	2.4	2.5	2.5	1.8	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

**F3: 541STC516 – Del Puerto Creek at Vineyard 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)
10/24/2000	71	140	26	18	340	<1	120	100	62
11/29/2000	150	250	47	32	650	2	170	140	130
12/27/2000	110	180	38	22	480	<1	150	120	93
2/21/2001	35	470	33	94	600	28	460	380	72
3/28/2001	150	360	53	56	710	2	210	170	120
4/25/2001	79	150	33	17	NA	<1	82	82	67
5/30/2001	140	340	51	51	NA	4	168	172	130
6/27/2001	120	320	59	42	670	<1	190	150	110
8/29/2001	140	NA	NA	NA	520	<1.0	150	130	100
9/26/2001	NA	170	22	28	NA	<1	120	98	91
10/24/2001	110	170	30	22	440	<1	130	100	91
3/27/2002	170	290	60	34	770	<1.0	180	150	160
4/30/2002	140	260	48	34	NA	<1.0	160	130	130
5/29/2002	120	260	48	33	NA	<1.0	170	140	120
6/19/2002	120	330	49	49	NA	<1.0	210	170	110
9/25/2002	160	230	45	28	NA	<1.0	170	140	150
10/30/2002	110	190	34	26	470	<1.0	140	110	90
3/25/2003	51	130	26	16					
4/24/2003	120	200	41	24					
5/29/2003	140	280	51	38					
6/26/2003	130	240	49	29					
<b>Count</b>	20	20	20	20	10	17	17	17	17
<b>Min</b>	35	130	22	16	340	0.5	82	82	62
<b>Max</b>	170	470	60	94	770	28	460	380	160
<b>Mean</b>	120	250	42	35	570	2.5	180	150	110
<b>Geo Mean</b>	110	230	41	31	550	0.8	160	140	100
<b>Median</b>	120	250	46	31	560	0.5	170	140	110
<b>Quartile 1</b>	110	180	33	24	470	0.5	140	110	91
<b>Quartile 3</b>	140	300	49.5	39	670	0.5	180	150	130

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

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

**F3: 541STC516 – Del Puerto Creek at Vineyard Avenue continued...**

Date	96h Acute Fathead Minnow (% Survival)		48h Acute Ceriodaphnia Dubia (% Survival)		Algae Cell Growth		
	Result	Control	Result	Control	Result (million/ml)	Control (million/ml)	MDD (%)
10/24/2000	100	100	NA	NA			
2/21/2001	95	100	100	100			
3/28/2001	100	100	100	100			
4/25/2001	100	100	100	90			
5/30/2001	100	95	100	100			
6/19/2001	100	100	100	90			
6/27/2001	90	100	100	90			

<b>Count</b>	7	7	6	6	N/A	N/A	N/A
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\* Significantly reduced from the lab control.

\*\* Significantly greater than the lab control.

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

<sup>1</sup> Duplicate sample for the set was low - 77% recovery.

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

<sup>3</sup> 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

#### F4: 541STC040 – Ingram Creek at River Road

Station Code: 541STC040

Location: Latitude 37.60028, Longitude -121.22417

Date	Time	Temp (°C)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
10/24/2000	1:25 PM	16.9	745	6.5		
11/29/2000	8:50 AM	11.9	1980	6.3		
12/27/2000	12:00 PM	11.1	1940	7.9		
1/24/2001	11:27 AM	13.4	2140	6.9		
2/21/2001	1:30 PM	16.3	1960	7.7		
3/28/2001	10:00 AM	18.7	1230	8.0		
4/25/2001	8:25 AM	16.5	908	7.7		
5/30/2001	9:40 AM	19.7	1000	7.5		
6/5/2001	9:04 AM	18.0	1220	8.1	8.4	
6/19/2001	9:55 AM	20.8	963	7.6	8.5	
6/27/2001	8:59 AM	20.1	951	7.9	8.9	
7/25/2001	9:39 AM	20.9	1060	7.9	8.6	
8/29/2001	9:21 AM	21.4	1350	7.9	7.9	
9/26/2001	9:02 AM	17.7	1370	7.9	9.3	
10/24/2001	9:45 AM	15.6	1370	7.9	9.5	
11/28/2001	9:18 AM	11.2	2050	8.0	10.3	
12/26/2001	9:37 AM	11.4	2070	8.0	10.4	
1/30/2002	9:24 AM	4.5	2190	8.1	13.2	
2/27/2002	8:48 AM	11.3	1040	7.9	10.2	
3/27/2002	8:35 AM	11.9	1020	8.3	11.2	
4/30/2002	9:32 AM	13.9	1090	7.8	10.6	
5/29/2002	8:53 AM	19.5	1110	7.9	9.4	
6/19/2002	12:19 PM	25.2	1300	8.1	7.6	
7/30/2002	11:09 AM	23.7	1070	8.0	8.0	840
8/28/2002	9:36 AM	21.1	1220	8.0	NA	
9/25/2002	9:41 AM	18.2	963	7.8	9.0	
10/15/2002	11:23 AM	16.3	1550	7.8	9.8	NA
10/30/2002	8:45 AM	13.5	771	7.2	10.1	
11/20/2002	8:39 AM	13.0	676	7.7	10.6	
12/18/2002	8:38 AM	10.6	1650	7.4	7.7	103
1/15/2003	10:33 AM	13.5	2110	8.0	9.6	57.6
1/29/2003	9:15 AM	11.9	2100	7.6	10.0	63.5
3/25/2003	8:34 AM	11.4	1390	7.6	10.7	139
4/22/2003	11:22 AM	16.9	868	8.0	9.7	475
5/27/2003	12:21 PM	22.4	1520	7.7	8.8	22.1
6/24/2003	8:43 AM	17.9	1030	8.3	10.8	1090
7/29/2003	10:06 AM	24.9	924	8.0	8.1	12.9
8/26/2003	11:31 AM	24.6	1030	8.0	7.7	1150
9/23/2003	11:15 AM	20.5	1430	7.8	9.5	274

**F4: 541STC040 – Ingram Creek at River Road continued...**

Date	Time	Temp (°C)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
10/28/2003	1:07 PM	17.1	1100	8.1	13.0	3.6
11/18/2003	12:30 PM	16.0	1970	8.3	14.5	27.9
1/28/2004	10:30 AM	DRY	DRY	DRY	DRY	DRY
2/24/2004	11:20 AM	14.0	2130	8.0	9.5	24.0
3/24/2004	9:38 AM	13.4	2040	7.8	8.7	195
4/28/2004	9:42 AM	17.9	791	7.8	11.4	580
5/26/2004	11:35 AM	22.2	1460	8.0	8.3	1900
6/23/2004	10:28 AM	21.9	104	8.1	9.0	NA
7/28/2004	11:11 AM	24.6	1150	8.1	9.4	NA
8/25/2004	11:25 AM	23.0	912	8.0	8.2	NA
9/29/2004	11:16 AM	17.3	1350	7.8	7.7	NA
10/27/2004	10:56 AM	13.4	802	7.9	8.7	
11/2/2004	7:49 AM	13.5	823	7.8	12.9	
11/16/2004	8:30 AM	14.3	709	7.5	10.0	
12/8/2004	8:04 AM	12.2	1730	7.0	10.2	
12/21/2004	7:31 AM	9.7	1760	7.7	9.3	
1/4/2005	7:50 AM	11.5	1240	7.9	9.7	
1/18/2005	7:57 AM	12.9	1810	7.7	13.5	
2/1/2005	7:51 AM	10.9	1950	7.7	8.3	
2/15/2005	7:53 AM	14.0	101	7.5	10.4	
3/8/2005	7:59 AM	13.8	1970	7.8	9.6	
3/23/2005	8:00 AM	12.6	1240	8.1	9.7	
4/5/2005	8:03 AM	12.4	107	8.0	7.0	
4/19/2005	8:05 AM	9.2	531	7.0	11.2	
5/3/2005	7:45 AM	14.1	448	7.8	11.5	
5/17/2005	7:58 AM	14.7	483	7.8	10.0	
6/8/2005	8:12 AM	16.6	348	7.7	9.5	
6/21/2005	8:13 AM	17.9	794	7.4	9.2	
7/6/2005	10:18 AM	21.4	585	7.7	8.0	
7/19/2005	8:53 AM	22.2	712	7.8	7.8	
8/2/2005	10:11 AM	24.5	835	7.9	8.1	
8/16/2005	10:30 AM	22.8	789	7.9	8.7	
9/6/2005	10:47 AM	21.6	699	8.0	10.4	
9/20/2005	9:57 AM	18.9	695	7.6	12.5	
<b>Count</b>		72.0	72	72.0	63.0	17
<b>Min</b>		4.5	101	6.3	7.0	3.6
<b>Max</b>		25.2	2190	8.3	14.5	1900
<b>Mean</b>		16.5	1202	7.8	9.7	409
<b>Geo Mean</b>		15.8	1037	7.8	9.6	132
<b>Median</b>		16.4	1095	7.9	9.5	139
<b>Quartile 1</b>		13.0	800	7.7	8.6	27.9
<b>Quartile 3</b>		20.6	1575	8.0	10.4	580

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

**F4: 541STC040 – Ingram Creek at River Road continued...**

<b>Date</b>	<b>TSS (mg/L)</b>	<b>TOC (mg/L)</b>	<b>Total Coli MPN</b>	<b><i>E. coli</i> MPN</b>
10/24/2000	1200	2.6		
11/29/2000	NA	<1		
12/27/2000	<6	<1		
1/24/2001	22	2.5		
2/21/2001	7	NA		
3/28/2001	180	NA		
4/25/2001	570	4.1		
5/30/2001	1000	9.8		
6/27/2001	1600	10		
7/25/2001		4.6		
8/29/2001	NA	13		
9/26/2001	NA	17		
11/28/2001		NA		
12/26/2001		4.4		
3/27/2002		NA		
4/30/2002		NA		
5/29/2002		3.2		
6/19/2002		NA		
7/30/2002			>2419.6	387
9/25/2002		NA		
10/15/2002			>2419.6	86
10/30/2002		2.8		
11/20/2002		2.4		
1/15/2003			>2419.6	38
3/25/2003		2.0		
4/22/2003		3.9	>2419.6	194
5/27/2003		NA		
6/24/2003		NA		
7/29/2003			>2419.6	687
8/26/2003			>2419.6	548
9/23/2003			>2419.6	173
10/28/2003			>2419.6	548
11/18/2003			>2419.6	81
1/28/2004			DRY	DRY
2/24/2004			1553	66
3/24/2004			>2419.6	>2419.6
4/28/2004			>2419.6	166
5/26/2004			>2419.6	326
6/23/2004	6200		>2419.6	158
7/28/2004			>2419.6	308
8/25/2004			>2419.6	691
9/29/2004			>2419.6	238
10/27/2004		8.4	>2419.6	39

**F4: 541STC040 – Ingram Creek at River Road continued...**

<b>Date</b>	<b>TSS (mg/L)</b>	<b>TOC (mg/L)</b>	<b>Total Coli MPN</b>	<b><i>E. coli</i> MPN</b>
11/2/2004			>2419.6	115
11/16/2004	14	4.8	>2419.6	210
12/8/2004			>2419.6	1300
12/21/2004	9	3.7	>2419.6	29
1/4/2005			>2419.6	435
1/18/2005	<1.0	3.6	1986	15
2/1/2005			>2419.6	9
2/15/2005	93	6.2	>2419.6	>2419.6
3/8/2005			>2419.6	135
3/23/2005	140	NA	1011	691
4/5/2005			>2419.6	194
4/19/2005	860	NA	>2419.6	119
5/3/2005			691	214
5/17/2005	1190	NA	>2419.6	613
6/8/2005			>2419.6	157
6/21/2005	1300	5.1	>2419.6	260
7/6/2005			>2419.6	1300
7/19/2005	960	3.5	>2419.6	161
8/2/2005	810		>2419.6	135
8/16/2005	1100	4.6	>2419.6	158
9/6/2005			>2419.6	276
9/20/2005	400	10	>2419.6	435
<hr/>				
<b>Count</b>	21	25	40	40
<b>Min</b>	0.5	0.5	691	9
<b>Max</b>	6200	17	2420	2420
<b>Mean</b>	840	5.3	NA	NA
<b>Geo Mean</b>	180	4.0	2258	214
<b>Median</b>	570	4.1	2420	202
<b>Quartile 1</b>	22	2.8	2420	131
<b>Quartile 3</b>	1100	6.2	2420	463

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

**F4: 541STC040 – Ingram Creek at River Road continued...**

Date	Nitrate (mg/L)	Nitrate-N (mg/L)	TKN (mg/L)	Ammonia-N (mg/L)	Phosphorus (mg/L)	Ortho- phosphate- P (mg/L)	Potassium (mg/L)	BOD 5-Day (mg/L)	BOD 10-Day (mg/L)
10/24/2000	12		2.2		1	<1	13	1.8	2.9
11/29/2000	65		NA		<0.1	<1	2.9	0.3	0.4
12/27/2000	61		<2		<0.1	<1	3.1	0.6	0.7
1/24/2001	74		<2		<0.1	<1	3.1	0.6	0.8
2/21/2001	69		<2		<0.1	<1	2.7	0.6	1.2
3/28/2001	14		2.1		0.4	<1	9.1	4.8	7.7
4/25/2001	20		2.4		0.7	<1	12	3	4.9
5/30/2001	20		2.4		0.6	<1	14	4.4	7
6/27/2001	17		2.6		1.4	<1	15	2.4	4.2
8/29/2001	2.3		<2		0.5	<1	NA		
9/26/2001	25		<2		0.5	<1	11		
10/24/2001	37		<2		0.2	<1	4.3	0.6	1
11/28/2001	NA		1.9		NA	<0.03	4.8	0.2	0.3
12/26/2001	NA		0.1		<0.05	<0.03	1.3	0.4	0.7
1/30/2002	NA		3.3		<0.05	<0.03	2.5	0.2	0.3
2/27/2002	NA		1.1		0.1	<0.03	NA	1.7	3.3
3/27/2002	NA		1.8		NA	0.4	12	3.1	5.1
4/30/2002	NA		NA		0.3	0.2	NA	2.6	4.3
5/29/2002	NA		1.4		NA	0.2	6.1	2	3.1
6/19/2002	NA		5.8		0.5	NA	7.8	7.6	15.8
8/28/2002	NA		3.5		0.5	0.2	5.2	3.2	6.3
9/25/2002	NA		NA		0.2	0.2	6.2	1.7	3.2
10/30/2002	NA		NA		0.1	0.1	2.8	0.7	1
11/20/2002	NA		0.9		0.1	0.1	3.4		
12/18/2002	NA		4.2		0.5	0.3	8.5	7.4	10.5
1/29/2003	NA		NA		<0.05	<0.03	0.9	0.3	0.6

**F4: 541STC040 – Ingram Creek at River Road continued...**

Date	Nitrate (mg/L)	Nitrate-N (mg/L)	TKN (mg/L)	Ammonia-N (mg/L)	Phosphorus (mg/L)	Ortho- phosphate- P (mg/L)	Potassium (mg/L)	BOD 5-Day (mg/L)	BOD 10-Day (mg/L)
<b>Count</b>	12	NA	21	NA	23	25	23	23	23
<b>Min</b>	2.3	NA	0.1	NA	0.03	0.02	0.9	0.2	0.3
<b>Max</b>	74.0	NA	5.8	NA	1.4	0.5	15.0	7.6	15.8
<b>Mean</b>	34.7	NA	2.0	NA	0.3	0.3	6.6	2.2	3.7
<b>Geo Mean</b>	24.6	NA	1.5	NA	0.2	0.2	5.1	1.3	2.1
<b>Median</b>	22.5	NA	1.8	NA	0.2	0.4	5.2	1.7	3.1
<b>Quartile 1</b>	16.3	NA	1.0	NA	0.1	0.1	3.0	0.6	0.8
<b>Quartile 3</b>	62.0	NA	2.4	NA	0.5	0.5	10.1	3.1	5.0

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

NA = Data not applicable

INA = Site was inaccessible

DRY = Site had no flow

**F4: 541STC040 – Ingram Creek at River Road continued...**

Date	Hardness (mg/L)	Total Arsenic (ug/L)	Total Cadmium (ug/L)	Total Chromium (ug/L)	Total Copper (ug/L)	Total Lead (ug/L)	Total Nickel (ug/L)	Total Zinc (ug/L)	Total Mercury (ug/L)
10/24/2000	260			61	47	18	90	110	
11/29/2000	520			15	<1	<5	5.9	<2	
12/27/2000	510			15	<1	<5	5.7	<2	
1/24/2001	580			18	1	<5	7.3	<2	
2/21/2001	520			18	<1	<5	6.4	<2	
3/28/2001	290			12	12	<5	17	22	
4/25/2001	270			38	34	12	62	73	
5/30/2001	310			48	38	16	79	85	
7/25/2001				38	31	13	64	73	
8/29/2001	NA	4.2	<1	18	13	5.2	26	26	
9/26/2001	360	<4	<0.1	10	13	<5	14	13	<0.2
10/24/2001	350	<4.0	<0.1	NA	1.2	<5.0	<5.0	<2.0	<0.2
11/28/2001	540	<4.0	<0.1	17	<1.0	<5.0	8.3	<2.0	<0.2
12/26/2001	560	4.3	<0.1	18	<1	<5	8.3	2.3	<0.2
1/30/2002	600	<4	<0.1	17	<1	<5	7	<2	<0.2
3/27/2002	260	7	<0.1	12	17	<5.0	21	24	<0.2
4/30/2002	290	<4.0	<0.1	9.5	2.5	<5.0	14	13	<0.2
5/29/2002	310	4.4	<0.1	33	NA	10	53	56	<0.2
6/19/2002	390	6.1	0.2	53	50	19	93	102	<0.2
9/25/2002	220	4.2	<0.1	7	NA	<5.0	10	9.4	<0.2
10/30/2002	190	<4.0	<0.1	3.6	NA	<5.0	<5.0	3.2	<0.2
11/20/2002	140	<4.0	<0.1	3.7	3.5	<5.0	NA	NA	<0.2
3/25/2003	380	<4.0	<0.1	14	5.9	<5.0	12	10	<0.2
4/22/2003	220	<4.0	<0.1	22	16	5.9	28	34	<0.2
5/27/2003	380	<4.0	<0.1	8.1	2.8	<5.0	53	<2.0	<0.2
6/24/2003	330	8	0.2	64	58	23	110	120	<0.2

**F4: 541STC040 – Ingram Creek at River Road continued...**

Date	Hardness (mg/L)	Total Arsenic (ug/L)	Total Cadmium (ug/L)	Total Chromium (ug/L)	Total Copper (ug/L)	Total Lead (ug/L)	Total Nickel (ug/L)	Total Zinc (ug/L)	Total Mercury (ug/L)
<b>Count</b>	24	17	17	25	23	26	25	25	16
<b>Min</b>	140.0	2.0	0.1	3.6	0.5	2.5	2.5	1.0	0.1
<b>Max</b>	600.0	8.0	0.5	64.0	58.0	23.0	110.0	120.0	0.1
<b>Mean</b>	365.8	3.4	0.1	22.9	15.2	6.3	32.0	31.4	0.1
<b>Geo Mean</b>	341.8	3.0	0.1	17.4	4.9	4.3	18.0	9.4	0.1
<b>Median</b>	340.0	2.0	0.1	17.0	5.9	2.5	14.0	13.0	0.1
<b>Quartile 1</b>	267.5	2.0	0.1	12.0	0.8	2.5	7.3	1.0	0.1
<b>Quartile 3</b>	512.5	4.3	0.1	33.0	24.0	9.0	53.0	56.0	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

**F4: 541STC040 – Ingram Creek at River Road continued...**

Date	Hardness (mg/L)	Dissolved Arsenic (ug/L)	Dissolved Cadmium (ug/L)	Dissolved Chromium (ug/L)	Dissolved Copper (ug/L)	Dissolved Lead (ug/L)	Dissolved Nickel (ug/L)	Dissolved Zinc (ug/L)	Dissolved Mercury (ug/L)
11/29/2000	520			15	<1	<5	6.2	<2	
12/27/2000	510			15	<1	<5	5.3	<2	
1/24/2001	580			18	<1	<5	7.2	<2	
2/21/2001	520			18	<1	<5	6	<2	
3/28/2001	290			1.2	2.9	<5	6	2.3	
4/25/2001	270			2.1	3.3	<5	6	<2	
5/30/2001	310			2.2	3.7	<5	6	<2	
8/29/2001	NA	2.9	<1	4.6	1.1	<5	6	<2	
9/26/2001	360	<4	<0.1	3.7	7.2	<5	6	3.3	<0.2
10/24/2001	350	<4.0	<0.1	NA	<1.0	<5.0	<5.0	<2.0	<0.2
11/28/2001	540	<4.0	<0.1	16	<1.0	<5.0	7.8	NA	<0.2
12/26/2001	560	<4	<0.1	17	<1	<5	7.5	2.4	<0.2
1/30/2002	600	<4	<0.1	11	<1	<5	6	<2	<0.2
3/27/2002	260	5.2	<0.1	1.6	6.8	<5.0	<5.0	2.4	<0.2
4/30/2002	290	<4.0	<0.1	2.4	1.6	<5.0	<5.0	<2.0	<0.2
5/29/2002	310	<4.0	<0.1	3.6	1.6	<5.0	<5.0	<2.0	<0.2
6/19/2002	390	<4.0	<0.1	25	23	8.6	44	47	<0.2
9/25/2002	220	<4.0	<0.1	1.9	NA	<5.0	<5.0	<2.0	<0.2
10/30/2002	190	<4.0	<0.1	1.6	3.4	<5.0	6	<2.0	<0.2
11/20/2002	140	<4.0	<0.1	1.7	1.9	<5.0	<5.0	<2.0	<0.2
<b>Count</b>	19	13	13	19	19	20	20	19	12
<b>Min</b>	140.0	2.0	0.1	1.2	0.5	2.5	2.5	1.0	0.1
<b>Max</b>	600.0	5.2	0.5	25.0	23.0	8.6	44.0	47.0	0.1
<b>Mean</b>	379.5	2.3	0.1	8.5	3.2	2.8	6.0	3.8	0.1
<b>Geo Mean</b>	351.6	2.2	0.1	5.2	1.5	2.7	4.0	1.5	0.1
<b>Median</b>	350.0	2.0	0.1	3.7	1.6	2.5	2.5	1.0	0.1
<b>Quartile 1</b>	280.0	2.0	0.1	2.0	0.5	2.5	2.5	1.0	0.1
<b>Quartile 3</b>	520.0	2.0	0.1	15.5	3.4	2.5	6.1	1.7	0.1

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

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**F4: 541STC040 – Ingram Creek at River Road continued...**

<b>Date</b>	<b>Chloride (mg/L)</b>	<b>Sulfate (mg/L)</b>	<b>Calcium (mg/L)</b>	<b>Magnesium (mg/L)</b>	<b>TDS (mg/L)</b>	<b>Carbonate (mg/L)</b>	<b>Bicarbonate (mg/L)</b>	<b>Total Alkalinity (mg/L)</b>	<b>Sodium (mg/L)</b>
10/24/2000	85	87	43	36	460	<1	140	120	79
11/29/2000	260	270	120	52	1300	<1	300	240	220
12/27/2000	280	280	120	52	1200	5	280	230	220
1/24/2001	290	310	130	59	1300	<1	300	250	240
2/21/2001	290	290	120	56	1300	6	230	190	220
3/28/2001	160	190	57	37	710	<1	180	150	140
4/25/2001	100	NA	55	33	NA	<1	110	110	91
5/30/2001	120	140	57	40	NA	<1	120	120	110
6/27/2001	120	130	60	38	540	<1	160	130	100
8/29/2001	190	NA	NA	NA	1600	<1.0	220	180	160
9/26/2001	NA	NA	75	41	NA	<1	200	160	150
10/24/2001	180	180	78	38	840	<1	220	180	160
11/28/2001	280	290	130	55	1300	<1	310	250	230
12/26/2001	300	310	130	55	1400	<1	320	270	230
1/30/2002	300	310	150	57	1400	<1	320	260	240
2/27/2002	140	130	61	25	NA	<1.0	182	149	100
3/27/2002	110	180	58	29	1700	<1.0	150	120	100
4/30/2002	150	170	61	33	NA	<1.0	150	130	130
5/29/2002	140	150	66	35	NA	<1.0	170	140	140
6/19/2002	170	210	79	47	NA	<1.0	180	150	160
9/25/2002	180	92	43	28	NA	<1.0	170	140	120
10/30/2002	110	92	36	24	470	<1.0	140	110	90
11/20/2002	110	59	30	17	380	<1.0	110	93	73
3/25/2003	180	200	88	38					
4/22/2003	110	120	45	26					
5/27/2003	220	230	85	39					
6/24/2003	140	170	58	44					

**F4: 541STC040 – Ingram Creek at River Road continued...**

Date	Chloride (mg/L)	Sulfate (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	TDS (mg/L)	Carbonate (mg/L)	Bicarbonate (mg/L)	Total Alkalinity (mg/L)	Sodium (mg/L)
<b>Count</b>	26	24	26	26	15	23	23	23	23
<b>Min</b>	85	59	30	17	380	0.5	110	93	73
<b>Max</b>	300	310	150	59	1700	6.0	320	270	240
<b>Mean</b>	180	190	78	40	1100	0.9	200	170	150
<b>Geo Mean</b>	170	170	71	38	953	0.6	190	160	140
<b>Median</b>	170	180	64	38	1300	0.5	180	150	140
<b>Quartile 1</b>	120	130	57	33	625	0.5	150	130	100
<b>Quartile 3</b>	250	270	110	51	1400	0.5	260	210	220

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



**F4: 541STC040 – Ingram Creek at River Road continued...**

Date	96h Acute Fathead Minnow (% Survival)		48h Acute Ceriodaphnia Dubia (% Survival)		Algae Cell Growth		
	Result	Control	Result	Control	Result (million/ml)	Control (million/ml)	MDD (%)
6/19/2001	95	100	100	90			
11/16/2004	100	100	100	100			
12/21/2004	100	100	100	100			
1/18/2005	100	100	100	100			
2/15/2005	100	97.5	100	100			
3/23/2005	97.5	97.5	100	100			
4/19/2005	95	100	100	100			
5/17/2005	97.5	100	100	100			
6/21/2005	100	100	90	100			
7/21/2005	97.5	100	100	100			
8/16/2005	97.5	100	95	95.2			
9/20/2005	100	100	100	100			
<b>Count</b>	12	12	12	12	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.

<sup>1</sup> Duplicate sample for the set was low - 77% recovery.

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

<sup>3</sup> 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

**F5: 541STC042 – Hospital creek at River Road**

Station Code: 541STC042

Location: Latitude 37.61056, Longitude -121.22861

Date	Time	Temp (°C)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
10/24/2000	1:05 PM	16.0	694	8.1		
11/29/2000	DRY	DRY	DRY	DRY		
12/27/2000	12:20 PM	DRY	DRY	DRY		
1/24/2001	11:43 AM	8.8	353	7.5		
2/10/2001	12:50 PM	DRY	DRY	DRY		
2/11/2001	2:35 AM	DRY	DRY	DRY		
2/21/2001	1:35 PM	DRY	DRY	DRY		
3/28/2001	9:50 AM	15.1	1080	7.7		
4/25/2001	8:10 AM	17.1	789	7.9		
5/30/2001	9:20 AM	20.3	1150	7.1		
6/5/2001	8:59 AM	17.4	991	8.1	7.7	
6/19/2001	9:45 AM	20.8	1240	7.6	7.9	
6/27/2001	8:52 AM	19.8	946	8.1	9.3	
7/25/2001	9:30 AM	20.5	916	8.2	9.0	
8/29/2001	9:49 AM	21.0	1050	7.7	7.7	
9/26/2001	8:46 AM	16.4	1190	7.7	9.2	
2/27/2002	DRY	DRY	DRY	DRY	DRY	
3/27/2002	8:20 AM	12.6	1220	8.4	10.5	
4/30/2002	9:24 AM	11.8	651	7.6	11.3	
5/29/2002	8:42 AM	19.1	712	8.0	9.5	
6/19/2002	8:44 AM	19.8	208	7.7	8.5	
7/30/2002	11:18 AM	22.1	75	8.3	8.8	300
8/28/2002	9:30 AM	19.8	1380	7.2	NA	
9/25/2002	9:20 AM	19.9	662	8.1	9.3	
10/15/2002	11:32 AM	15.7	962	7.9	10.1	NA
10/30/2002	8:29 AM	DRY	DRY	DRY	DRY	
1/15/2003	DRY	DRY	DRY	DRY	DRY	DRY
3/25/2003	8:27 AM	12.2	615	7.9	11.5	208
4/22/2003	11:10 AM	14.4	511	8.1	9.8	365
5/27/2003	12:05 PM	23.8	833	7.9	8.4	53.4
6/24/2003	8:56 AM	17.5	877	7.6	9.0	80.6
7/29/2003	10:14 AM	24.4	721	7.9	8.9	6.8
8/26/2003	11:24 AM	25.3	385	8.2	7.8	108
9/23/2003	11:06 AM	22.0	611	7.9	7.9	355
10/28/2003	12:59 PM	17.9	939	8.1	10.7	15.9
11/18/2003	12:15 PM	DRY	DRY	DRY	DRY	DRY
1/28/2004	10:22 AM	11.6	1980	7.9	15.2	181
2/24/2004	DRY	DRY	DRY	DRY	DRY	DRY
3/24/2004	9:32 AM	13.8	339	8.2	10.6	350

F5: 541STC042 – Hospital creek at River Road continued...

Date	Time	Temp (°C)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
4/28/2004	9:36 AM	17.4	640	7.9	11.5	307
5/26/2004	11:29 AM	21.2	836	7.7	7.7	264
6/23/2004	10:18 AM	20.4	1090	8.1	10.1	NA
7/28/2004	11:05 AM	23.4	1110	8.0	9.1	NA
8/25/2004	11:18 AM	22.7	830	8.1	8.2	NA
9/29/2004	11:09 AM	16.7	1290	7.7	9.5	NA
10/27/2004	11:09 AM	15.8	1010	8.0	12.1	
11/2/2004	7:43 AM	DRY	DRY	DRY	DRY	
11/16/2004	8:42 AM	14.9	507	7.5	4.8	
12/8/2004	7:55 AM	10.8	503	6.7	10.3	
12/21/2004	7:26 AM	DRY	DRY	DRY	DRY	
1/4/2005	7:44 AM	9.5	290	8.7	9.8	
1/18/2005	7:41 AM	DRY	DRY	DRY	DRY	
2/1/2005	7:50 AM	DRY	DRY	DRY	DRY	
2/15/2005	7:44 AM	11.1	188	8.1	13.3	
3/8/2005	7:51 AM	11.9	739	8.2	10.5	
3/23/2005	7:40 AM	13.5	523	7.9	7.2	
4/5/2005	7:55 AM	DRY	DRY	DRY	DRY	
4/19/2005	7:55 AM	11.0	453	6.5	10.6	
5/3/2005	7:40 AM	14.4	449	8.0	11.6	
5/17/2005	7:50 AM	13.8	391	7.8	9.9	
6/8/2005	8:08 AM	17.5	190	7.9	9.5	
6/21/2005	8:04 AM	17.8	413	7.0	9.3	
7/6/2005	10:10 AM	22.3	454	7.4	7.2	
7/19/2005	8:44 AM	22.2	402	8.2	8.5	
8/2/2005	10:00 AM	21.3	585	7.8	8.5	
8/16/2005	10:16 AM	22.4	415	8.1	9.5	
9/6/2005	10:40 AM	21.8	649	8.1	10.6	
9/20/2005	9:41 AM	19.5	415	7.6	12.1	

<b>Count</b>	53	53	53	47	13
<b>Min</b>	8.8	75	6.5	4.8	6.8
<b>Max</b>	25.3	1980	8.7	15.2	365
<b>Mean</b>	17.6	726	7.8	9.6	200
<b>Geo Mean</b>	17.0	626	7.8	9.4	126
<b>Median</b>	17.5	662	7.9	9.5	208
<b>Quartile 1</b>	14.4	449	7.7	8.5	80.6
<b>Quartile 3</b>	21.0	962	8.1	10.6	307

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

**F5: 541STC042 – Hospital creek at River Road continued...**

<b>Date</b>	<b>TSS (mg/L)</b>	<b>TOC (mg/L)</b>	<b>Total Coli MPN</b>	<b><i>E. coli</i> MPN</b>
10/24/2000	2900	2.8		
1/24/2001	34	5.1		
3/28/2001	420	NA		
4/25/2001	27	3.9		
5/30/2001	59	9.7		
6/27/2001	730	13		
7/25/2001		3.1		
8/29/2001	NA	13		
9/26/2001	NA	17		
<hr/>				
3/27/2002		NA		
4/30/2002		NA		
5/29/2002		5.4		
6/19/2002		NA		
7/30/2002			>2419.6	152
9/25/2002		NA		
<hr/>				
10/15/2002			>2419.6	1553
1/15/2003			NA	NA
3/25/2003		4.5		
4/22/2003		5.7	>2419.6	126
5/27/2003		NA		
6/24/2003		NA		
7/29/2003			>2419.6	488
8/26/2003			>2419.6	411
9/23/2003			>2419.6	>2419.6
<hr/>				
10/28/2003			>2419.6	272
11/18/2003			DRY	DRY
1/28/2004			>2419.6	8
2/24/2004			DRY	DRY
3/24/2004			>2419.6	272
4/28/2004			>2419.6	107
5/26/2004			>2419.6	>2419.6
6/23/2004			>2419.6	365
7/28/2004			>2419.6	222
8/25/2004			>2419.6	691
9/29/2004			>2419.6	167
<hr/>				
10/27/2004		4.1	>2419.6	99
11/2/2004	DRY		DRY	DRY
11/16/2004	110	8.1	>2419.6	162
12/8/2004			>2419.6	199
12/21/2004	DRY	DRY	DRY	DRY
1/4/2005			>2419.6	>2419.6
1/18/2005	DRY	DRY	DRY	DRY

**F5: 541STC042 – Hospital creek at River Road continued...**

<b>Date</b>	<b>TSS (mg/L)</b>	<b>TOC (mg/L)</b>	<b>Total Coli MPN</b>	<b><i>E. coli</i> MPN</b>
2/1/2005			DRY	DRY
2/15/2005	490	23	691	173
3/8/2005			>2419.6	579
3/23/2005	130	NA	>2419.6	1986
4/5/2005	DRY	DRY	DRY	DRY
4/19/2005	340	NA	>2419.6	228
5/3/2005			>2419.6	579
5/17/2005	503	NA	>2419.6	579
6/8/2005			>2419.6	31
6/21/2005	1500	7.7	>2419.6	1986
7/6/2005			>2419.6	>2419.6
7/19/2005	3000	3.2	>2419.6	142
8/2/2005			>2419.6	687
8/16/2005	3300	4.7	>2419.6	2420
9/6/2005			>2419.6	61
9/20/2005	27	3.2	>2419.6	238
<b>Count</b>	15	18	33	33
<b>Min</b>	27	2.8	691	8
<b>Max</b>	3300	23	2420	2420
<b>Mean</b>	900	7.6	NA	NA
<b>Geo Mean</b>	310	6.2	2330	353
<b>Median</b>	420	5.3	2420	272
<b>Quartile 1</b>	85	4.0	2420	162
<b>Quartile 3</b>	1100	9.3	2420	691

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



F5: 541STC042 – Hospital creek at River Road continued...

Date	Nitrate (mg/L)	Nitrate-N (mg/L)	TKN (mg/L)	Ammonia-N (mg/L)	Phosphorus (mg/L)	Ortho- phosphate- P (mg/L)	Potassium (mg/L)	BOD 5-Day (mg/L)	BOD 10-Day (mg/L)
10/24/2000	9.7		3.4		4	<1	4	3.3	5
1/24/2001	8.7		<2		0.3	<1	6.8	3.6	8
3/28/2001	11		<2		0.5	<1	11	1.6	2.7
4/25/2001	7.1		<2		0.1	<1	4.8	1.1	1.9
5/30/2001	11		<2		0.2	<1	11	4	6.5
6/27/2001	18		<2		0.6	<1	12	0.5	1
8/29/2001	12		<2		0.7	<1	NA		
9/26/2001	25		4.2		0.5	<1	13		
3/27/2002	NA		1.7		NA	0.1	6.4	0.5	1
4/30/2002	NA		NA		0.6	0.5	NA	6.7	12
5/29/2002	NA		1		NA	0.3	8.3	4	6
6/19/2002	NA		2.1		0.4	NA	8.1	8.3	13.7
8/28/2002	NA		2.5		0.4	0.4	5.4	1.3	2.6
9/25/2002	NA		NA		0.4	NA	5.7	0.9	1.4
<b>Count</b>	8	NA	12	NA	12	12	12	12	12
<b>Min</b>	7.1	NA	1.0	NA	0.1	0.1	4.0	0.5	1.0
<b>Max</b>	25.0	NA	4.2	NA	4.0	0.5	13.0	8.3	13.7
<b>Mean</b>	12.8	NA	1.7	NA	0.7	0.4	8.0	3.0	5.2
<b>Geo Mean</b>	11.9	NA	1.5	NA	0.5	0.4	7.5	2.0	3.6
<b>Median</b>	11.0	NA	1.0	NA	0.5	0.5	7.5	2.5	3.9
<b>Quartile 1</b>	9.5	NA	1.0	NA	0.4	0.5	5.6	1.1	1.8
<b>Quartile 3</b>	13.5	NA	2.2	NA	0.6	0.5	11.0	4.0	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

F5: 541STC042 – Hospital creek at River Road continued...

Date	Hardness (mg/L)	Total Arsenic (ug/L)	Total Cadmium (ug/L)	Total Chromium (ug/L)	Total Copper (ug/L)	Total Lead (ug/L)	Total Nickel (ug/L)	Total Zinc (ug/L)	Total Mercury (ug/L)
10/24/2000				110	98	35	180	211	
1/24/2001	110			3.8	8.3	<5	8.8	8.7	
3/28/2001	270			29	25	7.2	43	48	
4/25/2001	180			2.2	3.6	<5	<5	2.5	
5/30/2001	270			5	7.8	<5	8.1	7.7	
7/25/2001				56	43	15	81	91	
8/29/2001	NA	4.8	<1	23	20	7.6	35	38	
9/26/2001	310	<4	<0.1	13	15	<5	20	20	<0.2
3/27/2002	340	<4.0	<0.1	5.4	4.1	<5.0	<5.0	7.6	<0.2
4/30/2002	160	<4.0	<0.1	8.9	9.7	<5.0	16	20	<0.2
5/29/2002	190	5.2	<0.1	27	NA	8.5	41	46	<0.2
6/19/2002	370	6.9	0.18	60	55	19	91	100	0.2
9/25/2002	130	<4.0	<0.1	1.9	NA	<5.0	<5.0	3.4	<0.2
3/25/2003	130	<4.0	<0.1	12	12	<5.0	16	20	<0.2
4/22/2003	140	<4.0	<0.1	20	17	5.2	28	31	<0.2
5/27/2003	190	4.2	<0.1	2.6	6.9	<5.0	5.5	5	<0.2
6/24/2003	210	4.7	<0.1	3.2	8.3	<5.0	7.1	7.4	<0.2
<b>Count</b>	14	11	11	17	15	17	17	17	10
<b>Min</b>	110.0	2.0	0.1	1.9	3.6	2.5	2.5	2.5	0.1
<b>Max</b>	370.0	6.9	0.5	110.0	98.0	35.0	180.0	211.0	0.2
<b>Mean</b>	214.3	3.4	0.1	22.5	22.2	7.2	34.6	39.3	0.1
<b>Geo Mean</b>	199.8	3.1	0.1	11.2	14.2	4.7	16.5	19.2	0.1
<b>Median</b>	190.0	2.0	0.1	12.0	12.0	2.5	16.0	20.0	0.1
<b>Quartile 1</b>	145.0	2.0	0.1	3.8	8.1	2.5	7.1	7.6	0.1
<b>Quartile 3</b>	270.0	4.8	0.1	27.0	22.5	7.6	41.0	46.0	0.1

\*half of the detection limit used for calculations

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

F5: 541STC042 – Hospital creek at River Road continued...

Date	Hardness (mg/L)	Dissolved Arsenic (ug/L)	Dissolved Cadmium (ug/L)	Dissolved Chromium (ug/L)	Dissolved Copper (ug/L)	Dissolved Lead (ug/L)	Dissolved Nickel (ug/L)	Dissolved Zinc (ug/L)	Dissolved Mercury (ug/L)
1/24/2001	110			<1	4.4	<5	<5	2.4	
3/28/2001	270			<1	3.6	<5	<5	<2	
4/25/2001	180			<1	1.9	<5	<5	3.9	
5/30/2001	270			1.1	4.9	<5	<5	<2	
8/29/2001	NA	2.2	<1	1.5	3.4	<5	<5	2.6	
9/26/2001	310	<4	<0.1	2	4.5	<5	<5	<2	<0.2
3/27/2002	340	<4.0	<0.1	3.5	2.2	<5.0	<5.0	2.8	<0.2
4/30/2002	160	<4.0	<0.1	<1.0	2.3	<5.0	<5.0	4	<0.2
5/29/2002	190	<4.0	<0.1	<1.0	2.3	<5.0	<5.0	<2.0	<0.2
6/19/2002	370	<4.0	<0.1	37	34	12	56	61	<0.2
9/25/2002	130	<4.0	<0.1	<1.0	NA	<5.0	<5.0	2.5	<0.2
<b>Count</b>	10	7	7	11	10	11	11	11	6
<b>Min</b>	110.0	2.0	0.1	0.5	1.9	2.5	2.5	1.0	0.1
<b>Max</b>	370.0	2.2	0.5	37.0	34.0	12.0	56.0	61.0	0.1
<b>Mean</b>	233.0	2.0	0.1	4.4	6.4	3.4	7.4	7.6	0.1
<b>Geo Mean</b>	216.1	2.0	0.1	1.2	3.9	2.9	3.3	2.6	0.1
<b>Median</b>	230.0	2.0	0.1	0.5	3.5	2.5	2.5	2.5	0.1
<b>Quartile 1</b>	165.0	2.0	0.1	0.5	2.3	2.5	2.5	1.0	0.1
<b>Quartile 3</b>	300.0	2.0	0.1	1.8	4.5	2.5	2.5	3.4	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

F5: 541STC042 – Hospital creek at River Road continued...

Date	Chloride (mg/L)	Sulfate (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	TDS (mg/L)	Carbonate (mg/L)	Bicarbonate (mg/L)	Total Alkalinity (mg/L)	Sodium (mg/L)
10/24/2000	96	82	49	62	460	<1	150	120	76
1/24/2001	28	33	28	10	200	<1	100	80	24
3/28/2001	140	160	55	33	630	<1	160	130	120
4/25/2001	110	NA	39	21	NA	<1	100	100	80
5/30/2001	140	160	57	32	NA	4	146	150	120
6/27/2001	120	130	54	33	540	<1	160	130	99
8/29/2001	160	NA	NA	NA	600	<1.0	160	130	110
9/26/2001	NA	NA	66	34	NA	<1	180	140	120
3/27/2002	27	43	79	33	740	<1.0	160	130	120
4/30/2002	83	94	33	18	NA	<1.0	110	88	71
5/29/2002	89	89	41	23	NA	<1.0	130	110	81
6/19/2002	140	160	68	48	NA	<1.0	170	140	130
9/25/2002	130	35	21	18	NA	<1.0	100	84	85
3/25/2003	70	74	28	15					
4/22/2003	58	63	28	18					
5/27/2003	110	120	42	21					
6/24/2003	110	120	46	23					
<b>Count</b>	16	14	16	16	6	13	13	13	13
<b>Min</b>	27	33	21	10	200	0.5	100	80	24
<b>Max</b>	160	160	79	62	740	4.0	180	150	130
<b>Mean</b>	100	97	46	28	530	0.8	140	120	95
<b>Geo Mean</b>	90	86	43	25	490	0.6	140	120	89
<b>Median</b>	110	92	44	23	570	0.5	150	130	99
<b>Quartile 1</b>	80	66	32	18	480	0.5	110	100	80
<b>Quartile 3</b>	130	130	56	33	620	0.5	160	130	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

**F5: 541STC042 – Hospital creek at River Road continued...**

Date	96h Acute Fathead Minnow (% Survival)		48h Acute Ceriodaphnia Dubia (% Survival)		Algae Cell Growth		
	Result	Control	Result	Control	Result (million/ml)	Control (million/ml)	MDD (%)
1/24/2001	95	100	NA	NA			
3/28/2001	100	100	100	100			
4/25/2001	100	100	80	90			
5/30/2001	85	95	90	100			
6/27/2001	95	100	100	90			
11/16/2004	100	100	100	100			
2/15/2005	92.5	97.5	100	100			
3/23/2005	100	97.5	0*	100			
4/19/2005	100	100	0*	100			
5/17/2005	95	100	100	100			
6/21/2005	97.5	100	100	100			
7/19/2005	97.5	100	100	100			
8/16/2005	95	100	0*	95.2			
9/20/2005	100	100	100	100			
<b>Count</b>	14	14	13	13	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.

<sup>1</sup> Duplicate sample for the set was low - 77% recovery.

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

<sup>3</sup> 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

**F6: 541STC030 – Grayson Road Drain at Grayson**

Station Code: 541STC030

Location: Latitude 37.56194, Longitude -121.17417

Date	Time	Temp (°C)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
10/24/2000	1:45 PM	20.1	671	7.7		
11/29/2000	9:10 AM	12.3	1140	7.3		
12/27/2000	10:55 AM	7.1	627	8.1		
1/24/2001	DRY	DRY	DRY	DRY		
2/21/2001	12:10 PM	13.3	1370	8.5		
3/28/2001	10:30 AM	18.2	799	7.9		
4/25/2001	8:47 AM	17.9	728	8.1		
5/30/2001	10:05 AM	20.3	960	7.6		
6/27/2001	9:25 AM	20.7	308	8.0	10.1	
7/25/2001	9:57 AM	21.3	1120	8.2	9.0	
8/29/2001	10:12 AM	22.6	806	8.0	8.6	
9/26/2001	9:22 AM	20.8	947	8.1	9.2	
10/24/2001	10:10 AM	13.8	958	8.2	10.3	
11/28/2001	9:31 AM	DRY	DRY	DRY	DRY	
12/26/2001	9:59 AM	DRY	DRY	DRY	DRY	
1/30/2002	9:52 AM	8.6	826	7.7	9.5	
2/27/2002	9:11 AM	14.1	1280	8.0	10.0	
3/27/2002	8:52 AM	14.7	1060	8.2	10.5	
4/30/2002	8:48 AM	13.5	964	7.7	9.8	
5/29/2002	9:11 AM	19.5	946	7.9	9.3	
6/19/2002	9:01 AM	19.6	340	8.1	8.8	
7/31/2002	8:27 AM	21.7	919	7.5	8.6	515
8/28/2002	9:55 AM	22.1	1330	8.1	NA	
9/25/2002	9:58 AM	18.9	1460	7.6	NA	
10/15/2002	10:38 AM	16.2	1500	8.2	10.0	NA
10/30/2002	9:01 AM	14.7	814	7.6	9.7	
11/20/2002	9:14 AM	12.8	653	7.8	10.6	
12/18/2002	8:53 AM	DRY	DRY	DRY	DRY	DRY
1/14/2003	1:00 PM	11.6	161	7.7	5.4	477
1/29/2003	DRY	DRY	DRY	DRY	DRY	DRY
3/25/2003	8:49 AM	14.4	655	8.5	10.6	5.9
4/24/2003	1:54 PM	15.4	883	8.2	10.3	10.2
5/29/2003	12:50 PM	30.9	1430	8.5	7.6	742
6/26/2003	12:26 PM	22.1	786	8.5	9.1	80.5
7/31/2003	1:06 PM	25.7	518	7.9	8.0	139
8/28/2003	1:04 AM	27.2	1220	8.5	9.1	1340
9/25/2003	1:10 PM	DRY	DRY	DRY	DRY	DRY
10/30/2003	12:55 PM	DRY	DRY	DRY	DRY	DRY
11/20/2003	1:23 PM	15.4	1630	8.4	10.3	5.3

**F6: 541STC030 – Grayson Road Drain at Grayson continued...**

Date	Time	Temp (°C)	Field SC (umhos)	pH	Dissolved Oxygen (mg/L)	Turbidity (ntu)
1/29/2004	12:35 PM	DRY	DRY	DRY	DRY	DRY
2/26/2004	12:25 PM	12.1	176	8.1	10.8	NA
3/24/2004	12:45 PM	16.2	763	8.1	9.9	NA
4/29/2004	1:24 PM	20.2	793	8.1	9.3	1070
5/27/2004	1:17 PM	28.1	1190	8.8	7.9	560
6/24/2004	1:40 PM	25.1	1030	8.2	9.4	NA
7/29/2004	12:19 PM	27.0	1060	8.2	8.5	NA
8/26/2004	1:19 PM	25.0	924	8.1	7.9	NA
9/29/2004	11:31 AM	20.1	1450	8.1	9.1	NA
10/28/2004	12:58 PM	17.1	636	8.2	8.4	
11/3/2004	12:24 PM	16.3	699	8.1	9.8	
11/17/2004	12:19 PM	DRY	DRY	DRY	DRY	
12/8/2004	10:03 AM	12.4	715	7.9	11.8	
12/21/2004	9:53 AM	DRY	DRY	DRY	DRY	
1/5/2005	10:24 AM	11.7	595	8.3	12.0	
1/19/2005	10:00 AM	DRY	DRY	DRY	DRY	
2/2/2005	10:45 AM	DRY	DRY	DRY	DRY	
2/16/2005	10:38 AM	12.4	145	7.9	10.0	
3/9/2005	10:20 AM	DRY	DRY	DRY	DRY	
3/22/2005	11:41 AM	14.1	358	8.0	10.2	
4/6/2005	DRY	DRY	DRY	DRY	DRY	
4/20/2005	11:16 AM	DRY	DRY	DRY	DRY	
5/4/2005	11:01 AM	17.1	583	8.1	9.5	
5/18/2005	12:02 PM	18.0	424	8.3	10.3	
6/8/2005	1:05 PM	21.8	303	7.5	7.1	
6/22/2005	12:01 PM	21.1	808	8.1	9.0	
7/6/2005	10:42 AM	22.4	546	8.0	8.5	
7/20/2005	10:43 AM	24.4	686	8.1	8.6	
8/3/2005	11:01 AM	22.5	758	7.7	3.4	
8/17/2005	10:20 AM	22.7	686	8.2	9.1	
9/7/2005	11:00 AM	22.0	940	8.2	8.8	
9/21/2005	11:51 AM	26.6	715	7.8	11.3	

<b>Count</b>	56	56	56	47	11
<b>Min</b>	7.1	145	7.3	3.4	5.3
<b>Max</b>	30.9	1630	8.8	12.0	1340
<b>Mean</b>	18.6	836	8.0	9.3	450
<b>Geo Mean</b>	17.9	745	8.0	9.1	143
<b>Median</b>	19.2	803	8.1	9.3	477
<b>Quartile 1</b>	14.3	649	7.9	8.6	45.4
<b>Quartile 3</b>	22.1	1038	8.2	10.2	651

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

**F6: 541STC030 – Grayson Road Drain at Grayson continued...**

<b>Date</b>	<b>TSS (mg/L)</b>	<b>TOC (mg/L)</b>	<b>Total Coli MPN</b>	<b><i>E. coli</i> MPN</b>
10/24/2000	27	4.1		
11/29/2000	NA	2.1		
12/27/2000	400	4.9		
2/21/2001	6	NA		
3/28/2001	<5	NA		
4/25/2001	240	2.8		
5/30/2001	1400	8.9		
6/27/2001	970	8.6		
7/25/2001		8.7		
8/29/2001	NA	9.1		
9/26/2001	NA	11		
<hr/>				
3/27/2002		NA		
4/30/2002		NA		
5/29/2002		9.7		
6/19/2002		NA		
7/31/2002			>2419.6	36
9/25/2002		NA		
<hr/>				
10/15/2002			>2419.6	115
10/30/2002		3.5		
11/20/2002		3.1		
1/14/2003			>2419.6	131
3/25/2003		4.0		
4/24/2003		NA	>2419.6	1733
5/29/2003		7.8		
6/26/2003		4.1		
7/31/2003			>2419.6	1046
8/28/2003			>2419.6	74
9/25/2003			DRY	DRY
<hr/>				
10/30/2003			DRY	DRY
11/20/2003			1120	7
1/29/2004			DRY	DRY
2/26/2004			>2419.6	>2419.6
3/24/2004			>2419.6	1203
4/29/2004			>2419.6	150
5/27/2004			>2419.6	238
6/24/2004	4200		>2419.6	161
7/29/2004			>2419.6	260
8/26/2004			>2419.6	317
9/29/2004			>2419.6	93
<hr/>				
10/28/2004		4.5	>2419.6	20
11/3/2004	77	7.7	>2419.6	1414
11/17/2004	DRY	DRY	DRY	DRY
12/8/2004	90	21	>2419.6	>2419.6

**F6: 541STC030 – Grayson Road Drain at Grayson continued...**

<b>Date</b>	<b>TSS (mg/L)</b>	<b>TOC (mg/L)</b>	<b>Total Coli MPN</b>	<b><i>E. coli</i> MPN</b>
12/21/2004	DRY	DRY	DRY	DRY
1/5/2005	18	5.4	>2419.6	20
1/19/2005	DRY	DRY	DRY	DRY
2/2/2005	DRY	DRY	DRY	DRY
2/16/2005	200	NA	>2419.6	1553
3/9/2005	DRY	DRY	DRY	DRY
3/22/2005	25	7.2	>2419.6	>2419.6
4/6/2005	DRY	DRY	DRY	DRY
4/20/2005	DRY	DRY	DRY	DRY
5/4/2005	120	9.6	>2419.6	1553
5/18/2005	770	4.3	>2419.6	115
6/8/2005	180	NA	>2419.6	>2419.6
6/22/2005	48	NA	>2419.6	1120
7/6/2005	70	4.9	>2419.6	152
7/20/2005	3500	3.8	>2419.6	231
8/3/2005	28000	10	>2419.6	2420
8/17/2005	510	5.8	>2419.6	1120
9/7/2005	140	4.0	>2419.6	194
9/21/2005	880	NA	>2419.6	727
<hr/>				
<b>Count</b>	23	27	31	31
<b>Min</b>	2.5	2.1	1120	7
<b>Max</b>	28000	21	2420	2420
<b>Mean</b>	1821	6.7	NA	NA
<b>Geo Mean</b>	195	5.9	2361	337
<b>Median</b>	180	5.4	2420	260
<b>Quartile 1</b>	59	4.1	2420	123
<b>Quartile 3</b>	825	8.8	2420	1484

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



F6: 541STC030 – Grayson Road Drain at Grayson continued...

Date	Nitrate (mg/L)	Nitrate-N (mg/L)	TKN (mg/L)	Ammonia-N (mg/L)	Phosphorus (mg/L)	Ortho- phosphate- P (mg/L)	Potassium (mg/L)	BOD 5-Day (mg/L)	BOD 10-Day (mg/L)
10/24/2000	8.7		<2		0.2	<1	4.5	0.7	1.2
11/29/2000	10		NA		0.2	<1	6.4	0.8	1.1
12/27/2000	7.4		<2		0.6	1	9	5.2	7.3
2/21/2001	30		<2		0.1	<1	4.4	0.8	2.5
3/28/2001	6.3		<2		0.2	<1	5.2	1.4	2.5
4/25/2001	13		<2		0.3	<1	6.8	2	3.6
5/30/2001	14		3.5		0.5	<1	14	3.5	5.8
6/27/2001	20		3.2		0.5	<1	14	3.1	7.6
8/29/2001	6.1		<2		1.9	<1	NA		
9/26/2001	5.1		<2		0.3	<1	6.8		
10/24/2001	<2		<2		0.4	<1	5.5	1.9	3.7
11/28/2001	NA		0.2		NA	<0.03	2.9		
12/26/2001	NA		0.4		<0.05	<0.03	4.5		
1/30/2002	NA		13		2.9	2.5	15	7.5	16
2/27/2002	NA		0.5		0.1	0.1	NA	0.6	1
3/27/2002	NA		0.9		NA	NA	2.8	0.8	1.5
4/30/2002	NA		NA		2.2	0.9	NA	8.5	16.8
5/29/2002	NA		2		NA	0.4	8.2	8.4	15.4
6/19/2002	NA		0.7		0.3	NA	3.3	1.1	1.6
8/28/2002	NA		2		0.7	0.2	6.1	3.4	6.7
9/25/2002	NA		NA		0.4	0.4	14	8.4	16.9
10/30/2002	NA		NA		0.2	0.1	2.7	1.2	1.9
11/20/2002	NA		0.8		0.2	0.1	3.6		

**F6: 541STC030 – Grayson Road Drain at Grayson 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)
<b>Count</b>	11	NA	19	NA	20	21	20	18	18
<b>Min</b>	1.0	NA	0.2	NA	0.03	0.02	2.7	0.6	1.0
<b>Max</b>	30.0	NA	13.0	NA	2.9	2.5	15.0	8.5	16.9
<b>Mean</b>	11.1	NA	1.9	NA	0.6	0.5	7.0	3.3	6.3
<b>Geo Mean</b>	8.4	NA	1.1	NA	0.3	0.3	6.0	2.2	4.0
<b>Median</b>	8.7	NA	1.0	NA	0.3	0.5	5.8	2.0	3.7
<b>Quartile 1</b>	6.2	NA	0.9	NA	0.2	0.2	4.2	0.9	1.7
<b>Quartile 3</b>	13.5	NA	1.5	NA	0.5	0.5	8.4	4.8	7.5

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

**F6: 541STC030 – Grayson Road Drain at Grayson continued...**

Date	Hardness (mg/L)	Total Arsenic (ug/L)	Total Cadmium (ug/L)	Total Chromium (ug/L)	Total Copper (ug/L)	Total Lead (ug/L)	Total Nickel (ug/L)	Total Zinc (ug/L)	Total Mercury (ug/L)
10/24/2000	170			1.5	2.4	<5	<5	3	
11/29/2000	260			<1	1.5	<5	<5	<2	
12/27/2000	160			21	52	11	31	70	
2/21/2001	400			16	1.1	<5	<5	<2	
3/28/2001	190			<1	3.6	<5	5.1	<2	
4/25/2001	190			13	13	<5	20	29	
5/30/2001	310			54	50	24	88	130	
7/25/2001	310			61	52	26	91	150	
8/29/2001	NA	11	<1	86	93	46	180	240	
9/26/2001	200	<4	<0.1	<1	2.4	<5	<5	<2	<0.2
10/24/2001	220	5.3	<0.1	NA	1.5	<5.0	<5.0	<2.0	<0.2
1/30/2002	90	4.3	0.2	1.4	8.1	<5	6.9	28	<0.2
3/27/2002	370	<4.0	<0.1	14	2.5	<5.0	<5.0	5.4	<0.2
4/30/2002	310	<4.0	<0.1	2.7	9.3	<5.0	8.8	8.5	<0.2
5/29/2002	280	11	<0.1	56	NA	39	130	180	<0.2
6/19/2002	110	4.1	<0.1	10	12	<5.0	18	26	<0.2
9/25/2002	390	5.4	<0.1	12	NA	<5.0	25	24	<0.2
10/30/2002	210	<4.0	<0.1	<1.0	NA	<5.0	<5.0	<2.0	<0.2
11/20/2002	140	<4.0	<0.1	<1.0	1.6	<5.0	NA	NA	<0.2
3/25/2003	170	12	<0.1	<1.0	4.3	<5.0	<5.0	<2.0	<0.2
4/24/2003	190	<4.0	<0.1	<1.0	2.1	<5.0	<5.0	<2.0	<0.2
5/29/2003	360	7.8	<0.1	41	30	12	70	63	<0.2
6/26/2003	180	<4.0	<0.1	10	14	5.5	24	24	NA

**F6: 541STC030 – Grayson Road Drain at Grayson 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)
<b>Count</b>	22	15	15	22	20	23	22	22	13
<b>Min</b>	90	2.0	0.1	0.5	1.1	2.5	2.5	1.0	0.1
<b>Max</b>	400	12	1	86	93	46	180	240	0.1
<b>Mean</b>	237	5.0	0.1	18	18	8.8	33	45	0.1
<b>Geo Mean</b>	220	3.9	0.1	5.0	7.1	4.6	11.1	9.8	0.1
<b>Median</b>	205	4.1	0.1	10.0	6.2	2.5	7.9	16.3	0.1
<b>Quartile 1</b>	173	2.0	0.1	0.5	2.3	2.5	2.5	1.0	0.1
<b>Quartile 3</b>	310	6.6	0.1	19.8	18	8.3	30	55	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

F6: 541STC030 – Grayson Road Drain at Grayson continued...

Date	Hardness (mg/L)	Dissolved Arsenic (ug/L)	Dissolved Cadmium (ug/L)	Dissolved Chromium (ug/L)	Dissolved Copper (ug/L)	Dissolved Lead (ug/L)	Dissolved Nickel (ug/L)	Dissolved Zinc (ug/L)	Dissolved Mercury (ug/L)
11/29/2000	260			<1	1.2	<5	<5	<2	
12/27/2000	160			<1	5.1	<5	<5	<2	
2/21/2001	400			15	<1	<5	<5	<2	
3/28/2001	190			<1	2.6	<5	<5	<2	
4/25/2001	190			<1	1.8	<5	<5	<2	
5/30/2001	310			<1	2.2	<5	<5	<2	
8/29/2001	NA	2.4	<1	<1	1.5	<5	6.2	6.6	
9/26/2001	200	<4	<0.1	<1	2.4	<5	<5	6	<0.2
10/24/2001	220	6.5	<0.1	NA	1.7	<5.0	<5.0	<2.0	<0.2
1/30/2002	90	<4	0.2	<1	4.9	<5	<5	17	<0.2
3/27/2002	370	<4	<0.1	12	2.9	<5.0	<5.0	2.5	<0.2
4/30/2002	310	<4.0	<0.1	<1.0	7	<5.0	5.2	5.9	<0.2
5/29/2002	280	<4.0	<0.1	<1.0	4.5	<5.0	<5.0	<2.0	<0.2
6/19/2002	110	<4.0	<0.1	6.1	7.4	<5.0	11	17	<0.2
9/25/2002	390	<4.0	<0.1	1.3	NA	<5.0	6	<2.0	<0.2
10/30/2002	210	<4.0	<0.1	<1.0	3	<5.0	<5.0	<2.0	<0.2
11/20/2002	140	<4.0	<0.1	<1.0	<1.0	<5.0	<5.0	<2.0	<0.2
<b>Count</b>	16	11	11	16	16	17	17	17	10
<b>Min</b>	90	2.0	0.1	0.5	0.5	2.5	2.5	1.0	0.1
<b>Max</b>	400	6.5	0.5	15	7.4	2.5	11	17	0.1
<b>Mean</b>	239	2.4	0.1	2.5	3.1	2.5	3.6	3.9	0.1
<b>Geo Mean</b>	220	2.3	0.1	0.9	2.4	2.5	3.2	2.0	0.1
<b>Median</b>	215	2.0	0.1	0.5	2.5	2.5	2.5	1.0	0.1
<b>Quartile 1</b>	183	2.0	0.1	0.5	1.7	2.5	2.5	1.0	0.1
<b>Quartile 3</b>	310	2.0	0.1	0.7	4.6	2.5	2.5	5.9	0.1

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

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

**F6: 541STC030 – Grayson Road Drain at Grayson continued...**

Date	Chloride (mg/L)	Sulfate (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	TDS (mg/L)	Carbonate (mg/L)	Bicarbonate (mg/L)	Total Alkalinity (mg/L)	Sodium (mg/L)
10/24/2000	76	77	31	22	380	<1	140	110	72
11/29/2000	150	140	46	35	670	2	200	170	130
12/27/2000	95	64	31	20	370	<1	110	90	68
2/21/2001	210	160	82	48	800	<1	200	160	120
3/28/2001	96	110	39	22	470	<1	140	110	85
4/25/2001	82	NA	39	22	NA	<1	92	92	72
5/30/2001	130	140	54	42	NA	<1	110	110	110
6/27/2001	130	140	57	41	620	<1	160	130	110
8/29/2001	130	NA	NA	NA	440	<1.0	140	110	96
9/26/2001	NA	NA	36	26	NA	<1	170	140	110
10/24/2001	140	110	40	28	560	<1	190	150	120
1/30/2002	35	40	17	12	240	<1	44	54	24
2/27/2002	200	160	73	46	NA	<1.0	190	156	120
3/27/2002	160	130	58	41	640	<1.0	180	150	100
4/30/2002	150	170	54	35	NA	<1.0	170	140	140
5/29/2002	120	130	60	42	NA	<1.0	160	140	120
6/19/2002	36	32	22	14	NA	<1.0	85	70	34
9/25/2002	410	360	68	54	NA	<1.0	360	290	180
10/30/2002	100	98	38	27	480	<1.0	160	130	91
11/20/2002	99	57	28	17	350	<1.0	130	110	71
3/25/2003	73	83	37	19					
4/24/2003	110	130	42	22					
5/29/2003	200	230	72	44					
6/26/2003	98	120	38	21					

**F6: 541STC030 – Grayson Road Drain at Grayson 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)
<b>Count</b>	23	21	23	23	12	20	20	20	20
<b>Min</b>	35	32	17	12	240	0.5	44	54	24
<b>Max</b>	410	360	82	54	800	2.0	360	290	180
<b>Mean</b>	130	130	46	30	500	0.6	160	130	99
<b>Geo Mean</b>	120	110	43	28	480	0.5	150	120	91
<b>Median</b>	120	130	40	27	480	0.5	160	130	110
<b>Quartile 1</b>	96	83	37	22	380	0.5	130	110	72
<b>Quartile 3</b>	150	140	58	42	630	0.5	180	150	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



**F6: 541STC030 – Grayson Road Drain at Grayson continued...**

Date	96h Acute Fathead Minnow (% Survival)		48h Acute Ceriodaphnia Dubia (% Survival)		Algae Cell Growth		
	Result	Control	Result	Control	Result (million/ml)	Control (million/ml)	MDD (%)
2/16/2005	100	100	100	100			
3/22/2005	92.5	100	0*	100			
5/18/2005	100	97.5	100	100			
6/22/2005	100	100	100	100			
7/20/2005	100	100	100	100			
8/17/2005	97.5	97.5	100	100			
9/21/2005	100	100	95	100			
<b>Count</b>	7	7	7	7	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.

<sup>1</sup> Duplicate sample for the set was low - 77% recovery.

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

<sup>3</sup> 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