

APPENDIX B – BROWN’S CREEK STREAM DATA

Total Phosphorus and Total Suspended Solids Loading Tables

Table 1: Brown’s Creek at Hwy 15 2010 Total Suspended Solids (TSS) and Total Phosphorus (TP) Loading

Table 2: Brown’s Creek at McKusick Road 2010 Total Suspended Solids (TSS) and Total Phosphorus (TP) Loading

Table 3: Brown’s Creek at Stonebridge Trail 2010 Total Suspended Solids (TSS) and Total Phosphorus (TP) Loading

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Figure 2: Brown’s Creek at McKusick Road 2010 Dissolved Oxygen

Figure 3: Brown’s Creek at Stonebridge Trail 2010 Dissolved Oxygen

Figure 4: Brown’s Creek Outlet 2010 Dissolved Oxygen

Table 1: Brown's Creek at Hwy 15 2010 Total Suspended Solids (TSS) and Total Phosphorus (TP) Loading

Sample Type	Sample Collection Time		TSS (mg/L)	TP (mg/L)	Loading Interval		Interval Volume (cf)	Interval Volume (ac-ft)	Interval TP (lb)	Interval TSS (lb)
	Start	End			Start	End				
Base**			4	0.106	1/1/2010 0:00	1/20/2010 0:00	3,283,200	75.41	21.73	820
Base Grab**	1/25/2010 9:09	1/25/2010 9:09	4	0.077	1/20/2010 0:00	1/30/2010 0:00	1,728,000	39.69	8.31	431
Base**			4	0.106	1/30/2010 0:00	3/11/2010 5:00	6,948,000	159.59	45.98	1,735
Snowmelt Grab**	3/11/2010 8:14	3/11/2010 8:14	32	0.166	3/11/2010 5:00	3/12/2010 5:00	345,600	7.94	3.58	690
Base**			4	0.106	3/12/2010 5:00	3/29/2010 12:15	4,484,700	103.01	29.68	1,120
Base			4	0.106	3/29/2010 12:15	4/15/2010 4:15	4,958,744	113.90	32.81	1,238
Storm Composite	4/15/2010 4:36	4/15/2010 14:03	21	0.080	4/15/2010 4:15	4/15/2010 19:15	266,161	6.11	1.33	349
Base			4	0.106	4/15/2010 19:15	4/28/2010 19:15	2,794,726	64.19	18.49	698
Base Grab	4/29/2010 11:12	4/29/2010 11:12	8	0.097	4/28/2010 19:15	5/11/2010 1:15	2,964,845	68.10	17.95	1,481
Storm Composite	5/11/2010 4:27	5/13/2010 7:59	30	0.129	5/11/2010 1:15	5/13/2010 8:15	1,184,800	27.21	9.54	2,219
Base			4	0.106	5/13/2010 8:15	5/22/2010 8:15	3,658,327	84.03	24.21	914
Base Grab	5/24/2010 11:13	5/24/2010 11:13	7	0.143	5/22/2010 8:15	5/25/2010 8:15	624,485	14.34	5.57	273
Base			4	0.106	5/25/2010 8:15	6/8/2010 6:15	2,494,029	57.28	32.07	5,138
Storm Composite	6/8/2010 16:52	6/9/2010 15:38	33	0.206	6/8/2010 6:15	6/9/2010 16:15	608,118	13.97	7.82	1,253
Base			4	0.106	6/9/2010 16:15	6/11/2010 6:15	404,891	9.30	2.68	1,019
Storm			43	0.258	6/11/2010 6:15	6/12/2010 4:15	379,795	8.72	6.12	1,019
Base			4	0.106	6/12/2010 4:15	6/25/2010 18:15	2,933,872	67.39	19.41	733
Storm Composite	6/25/2010 19:29	6/27/2010 4:44	49	0.271	6/25/2010 18:15	6/27/2010 8:15	2,263,549	51.99	38.29	6,924
Base			4	0.106	6/27/2010 8:15	7/5/2010 11:15	2,945,614	67.66	19.49	736
Storm			43	0.258	7/5/2010 11:15	7/5/2010 21:15	146,178	3.36	2.35	392
Base			4	0.106	7/5/2010 21:15	7/17/2010 20:15	2,425,322	55.71	16.05	606
Storm			43	0.258	7/17/2010 20:15	7/18/2010 3:15	101,227	2.33	1.63	272
Base Grab	7/21/2010 8:35	7/21/2010 8:35	3	0.111	7/18/2010 3:15	7/22/2010 3:15	1,010,638	23.21	16.28	2,713
Base			4	0.106	7/22/2010 3:15	8/8/2010 18:15	3,460,340	79.48	22.90	864
Storm Composite	8/8/2010 7:23	8/9/2010 15:14	43	0.297	8/8/2010 18:15	8/10/2010 22:15	1,556,319	35.75	28.86	4,178
Storm Composite	8/10/2010 23:06	8/11/2010 21:20	54	0.423	8/10/2010 22:15	8/11/2010 22:15	1,278,015	29.35	33.75	4,308
Base			4	0.106	8/11/2010 22:15	8/21/2010 22:15	4,050,512	93.04	26.80	1,011
Base Grab	8/23/2010 8:57	8/23/2010 8:57	5	0.150	8/21/2010 22:15	8/24/2010 22:15	607,232	13.95	5.69	190
Base			4	0.106	8/24/2010 22:15	8/31/2010 4:15	1,084,721	24.91	7.18	271
Storm			43	0.258	8/31/2010 4:15	8/31/2010 11:15	101,963	2.34	1.64	274
Base			4	0.106	8/31/2010 11:15	9/2/2010 2:15	440,810	10.12	2.92	110
Storm Composite	9/2/2010 5:33	9/3/2010 13:38	36	0.275	9/2/2010 2:15	9/3/2010 14:15	879,191	20.19	15.09	1,976
Base			4	0.106	9/3/2010 14:15	9/15/2010 19:15	3,125,363	71.79	20.68	780
Storm Composite	9/15/2010 22:45	9/16/2010 8:05	51	0.291	9/15/2010 19:15	9/16/2010 8:15	252,193	5.79	4.58	803
Base			4	0.106	9/16/2010 8:15	9/20/2010 8:15	1,401,484	32.19	9.27	350
Base Grab	9/20/2010 10:21	9/20/2010 10:21	2	0.085	9/20/2010 8:15	9/22/2010 22:15	828,949	19.04	4.40	103
Storm Composite	9/23/10 1:35	9/24/10 5:32	101	0.351	9/22/2010 22:15	9/24/2010 14:15	3,880,762	89.14	85.03	24,468
Base Grab	9/28/10 8:27	9/28/10 8:27	4	0.106	9/24/2010 14:15	9/29/2010 14:15	4,599,524	105.65	30.44	1,149
Base			4	0.106	9/29/2010 14:15	10/5/2010 14:15	1,627,559	37.38	10.77	406
Base Grab	10/6/10 9:03	10/6/10 9:03	3	0.076	10/5/2010 14:15	10/7/2010 14:15	552,851	12.70	2.62	104
Base			4	0.106	10/7/2010 14:15	10/11/2010 14:15	896,778	20.60	5.93	224
Base Grab	10/12/10 8:10	10/12/10 8:10	4	0.106	10/11/2010 14:15	10/13/2010 14:15	466,776	10.72	3.09	117
Base			4	0.106	10/13/2010 14:15	10/25/2010 23:15	2,236,126	51.36	14.80	558
Storm Grab			13	0.258	10/25/2010 23:15	10/27/2010 21:15	1,490,144	34.23	24.00	1,209
Base			4	0.106	10/27/2010 21:15	11/2/2010 11:15	1,997,069	45.87	13.21	499
Base**			4	0.106	11/2/2010 11:15	11/20/2010 11:15	4,665,600	107.16	30.87	1,165
Base**			4	0.106	11/20/2010 11:15	1/1/2011 0:00	7,176,600	164.84	47.49	1,792
Storm Average			43	0.258						
Base Average			4	0.106						
All Average			25	0.190						
Total							97,611,702	2,242	833	78,762
Brown's Creek Major Subwatershed Total Acres							7,135			
Total TP/TSS(lb/ac/yr)									0.12	11.04
Total TP/TSS (kg/ha/yr)									0.13	12.37

*Italics indicate estimated concentrations based on average base and storm flow concentrations
 **Interval volumes from 1/1/10 to 3/29/10 and 11/2/10 to 1/1/11 were estimated using similar flow conditions

Table 2: Brown's Creek at McKusick Road 2010 Total Suspended Solids (TSS) and Total Phosphorus (TP) Loading

Sample Type	Sample Collection Time		TSS (mg/L)		TP (mg/L)		Loading Interval		Interval Volume (cf)	Interval Volume (ac-ft)	Interval TP (lb)	Interval TSS (lb)
	Start	End	TSS	TP	Start	End						
Base**			9	0.121	1/1/2010 0:00	3/11/2010 5:00	11,959,200	274.69	90.3	6,719		
Snowmelt Grab**	3/11/2010 8:43	3/11/2010 8:43	50	0.207	3/11/2010 5:00	3/12/2010 5:00	388,800	8.93	5.0	1,214		
Base**			9	0.121	3/12/2010 5:00	3/29/2010 15:30	4,519,800	103.81	34.1	2,539		
Base			9	0.121	3/29/2010 15:30	4/15/2010 2:30	4,005,603	92.00	30.3	2,230		
Storm			108	0.278	4/15/2010 2:30	4/15/2010 18:30	216,688	4.98	3.8	1,461		
Base			9	0.121	4/15/2010 18:30	4/24/2010 7:30	1,598,583	36.72	12.1	898		
Storm			108	0.278	4/24/2010 7:30	4/24/2010 17:30	84,129	1.93	1.5	567		
Base			9	0.121	4/24/2010 17:30	4/28/2010 17:30	723,630	16.62	5.5	407		
Base Grab	4/29/2010 11:41	4/29/2010 11:41	10	0.072	4/28/2010 17:30	4/30/2010 17:30	332,335	7.63	1.5	207		
Base			9	0.121	4/30/2010 17:30	5/7/2010 10:30	1,102,890	25.33	8.3	620		
Storm			108	0.278	5/7/2010 10:30	5/8/2010 20:30	345,547	7.94	6.0	2,330		
Base			9	0.121	5/8/2010 20:30	5/10/2010 19:30	383,221	8.80	2.9	215		
Storm			108	0.278	5/10/2010 19:30	5/13/2010 1:30	896,503	20.59	15.6	6,044		
Storm Grab	5/13/2010 9:32	5/13/2010 9:32	38	0.129	5/13/2010 1:30	5/14/2010 10:30	1,056,635	24.27	8.5	2,507		
Base			9	0.121	5/14/2010 10:30	5/23/2010 10:30	2,149,646	49.37	16.2	1,208		
Base Grab	5/24/2010 11:35	5/24/2010 11:35	15	0.137	5/23/2010 10:30	5/25/2010 20:30	393,951	9.05	3.4	369		
Storm			108	0.278	5/25/2010 20:30	5/26/2010 2:30	56,511	1.30	1.0	381		
Base			9	0.121	5/26/2010 2:30	6/8/10 5:30	2,199,978	50.53	16.6	1,236		
Storm Composite	6/8/2010 11:42	6/9/2010 15:15	61	0.231	6/8/2010 5:30	6/9/2010 14:30	360,309	8.28	5.2	1,372		
Base			9	0.121	6/9/2010 14:30	6/11/2010 4:30	315,766	7.25	2.4	177		
Storm Composite	6/11/2010 7:52	6/12/2010 10:19	324	0.442	6/11/2010 4:30	6/12/2010 10:30	625,192	14.36	17.3	12,645		
Base			9	0.121	6/12/2010 10:30	6/25/2010 18:30	2,729,986	62.70	20.6	1,534		
Storm Composite	6/25/2010 18:43	6/27/2010 8:27	184	0.479	6/25/2010 18:30	6/27/2010 8:30	2,201,204	50.56	65.8	25,284		
Base			9	0.121	6/27/2010 8:30	7/5/2010 12:30	2,355,858	54.11	17.8	1,324		
Storm			108	0.278	7/5/2010 12:30	7/6/2010 1:30	114,037	2.62	2.0	769		
Base			9	0.121	7/6/2010 1:30	7/17/2010 18:30	2,030,348	46.63	15.3	1,141		
Storm			108	0.278	7/17/2010 18:30	7/17/2010 23:30	42,084	0.97	0.7	284		
Base			9	0.121	7/17/2010 23:30	7/20/2010 23:30	492,368	11.31	3.7	277		
Base Grab	7/21/2010 8:23	7/21/2010 8:23	9	0.044	7/20/2010 23:30	7/22/2010 23:30	334,157	7.68	0.9	188		
Base			9	0.121	7/22/2010 23:30	8/2/2010 4:30	1,724,347	39.61	13.0	969		
Storm			108	0.278	8/2/2010 4:30	8/2/2010 8:30	39,382	0.90	0.7	266		
Base			9	0.121	8/2/2010 8:30	8/7/2010 22:30	914,267	21.00	6.9	514		
Storm			108	0.278	8/7/2010 22:30	8/8/2010 5:30	57,930	1.33	1.0	391		
Base			9	0.121	8/8/2010 5:30	8/8/2010 18:30	105,970	2.43	0.8	60		
Storm			108	0.278	8/8/2010 18:30	8/8/2010 21:30	146,212	3.36	2.5	986		
Base Grab	8/9/2010 14:49	8/9/2010 14:49	16	0.173	8/8/2010 21:30	8/10/2010 22:30	1,454,009	33.40	15.7	1,452		
Storm			108	0.278	8/10/2010 22:30	8/11/2010 0:30	350,635	8.05	6.1	2,364		
Base Grab	8/11/2010 15:20	8/11/2010 15:20	21	0.201	8/11/2010 0:30	8/13/2010 0:30	1,740,819	39.98	21.8	2,282		
Base			9	0.121	8/13/2010 0:30	8/22/2010 0:30	2,004,345	46.04	15.1	1,126		
Base Grab	8/23/2010 9:18	8/23/2010 9:18	7	0.164	8/22/2010 0:30	8/24/2010 0:30	324,893	7.46	3.3	142		
Base			9	0.121	8/24/2010 0:30	8/31/2010 3:30	1,178,572	27.07	8.9	662		
Storm			108	0.278	8/31/2010 3:30	8/31/2010 6:30	37,145	0.85	0.6	230		
Base			9	0.121	8/31/2010 6:30	9/2/2010 2:30	324,324	7.45	2.4	182		
Storm Composite	9/2/2010 4:07	9/3/2010 14:19	46	0.282	9/2/2010 2:30	9/3/2010 14:30	836,180	19.21	14.7	2,401		
Base			9	0.121	9/3/2010 14:30	9/15/2010 18:30	2,258,819	51.88	17.1	1,269		
Storm Composite	9/15/2010 20:12	9/16/2010 10:06	38	0.203	9/15/2010 18:30	9/16/2010 10:30	218,650	5.02	2.8	519		
Base**			9	0.121	9/16/2010 10:30	9/19/2010 10:30	557,280	12.80	4.2	313		
Base Grab**	9/20/2010 10:38	9/20/2010 10:38	5	0.098	9/19/2010 10:30	9/21/2010 10:30	371,520	8.53	2.3	116		
Base**			9	0.121	9/21/2010 10:30	9/22/2010 10:30	185,760	4.27	1.4	104		
Storm Grab**	9/24/2010 14:53	9/24/2010 14:53	112	0.180	9/24/2010 10:30	9/24/2010 16:30	7,776,000	178.61	87.4	54,368		
Base**			9	0.121	9/24/2010 16:30	9/27/2010 10:30	510,840	11.73	3.9	287		
Base Grab	9/28/2010 8:42	9/28/2010 8:42	5	0.121	9/27/2010 10:30	9/29/2010 10:30	528,600	12.14	4.0	165		
Base			9	0.121	9/29/2010 10:30	10/5/2010 10:30	1,127,572	25.90	8.5	634		
Base Grab	10/6/2010 9:33	10/6/2010 9:33	4	0.080	10/5/2010 10:30	10/7/2010 10:30	346,249	7.95	1.7	86		
Base			9	0.121	10/7/2010 10:30	10/11/2010 10:30	666,609	15.31	5.0	375		
Base Grab	10/12/2010 8:23	10/12/2010 8:23	5	0.121	10/11/2010 10:30	10/13/2010 10:30	325,939	7.49	2.5	102		
Base			9	0.121	10/13/2010 10:30	10/25/2010 22:30	2,057,020	47.25	15.5	1,156		
Storm Composite	10/26/2010 0:50	10/26/2010 2:21	59	0.278	10/25/2010 22:30	10/26/2010 3:30	98,211	2.26	1.7	362		
Base Grab	10/26/2010 9:59	10/26/2010 9:59	9	0.121	10/26/2010 3:30	10/28/2010 3:30	1,220,845	28.04	9.2	686		
Base			9	0.121	10/28/2010 3:30	11/2/2010 14:30	1,176,052	27.01	8.9	661		
Base**			9	0.121	11/2/2010 14:30	11/20/2010 14:30	3,888,000	89.30	29.4	2,184		
Base**			9	0.121	11/20/2010 14:30	1/1/2011 0:00	7,153,200	164.30	54.0	4,019		
Storm Average			108	0.278								
Base Average			9	0.121								
All Average			42	0.179								
Total							85,721,155	1,969	787	157,616		
Brown's Creek Major Subwatershed Total Acres									8,064			
Total TP/TSS(lb/ac/yr)											0.10	19.55
Total TP/TSS (kg/ha/yr)											0.11	21.91

*Italics indicate estimated concentrations based on average base and storm flow concentrations

**Interval volume between 1/1/10 to 3/29/10, 9/16/10 to 9/27/10, and 11/2/10 to 1/1/11 were estimated based upon base flow

Table 3: Brown's Creek at Stonebridge Trail 2010 Total Suspended Solids (TSS) and Total Phosphorus (TP) Loading

Sample Type	Sample Collection Time		TSS (mg/L)	TP (mg/L)	Loading Interval		Interval Volume (cf)	Interval Volume (ac-ft)	Interval TP (lb)	Interval TSS (lb)
	Start	End			Start	End				
Base**			7	0.107	1/1/2010 0:00	3/11/2010 5:00	20,928,600	480.71	139.79	9,145
Snowmelt Grab**	3/11/2010 8:59	3/11/2010 8:59	44	0.23	3/11/2010 5:00	3/12/2010 5:00	518,400	11.91	7.31	1,424
Base**			7	0.107	3/12/2010 5:00	3/29/2010 9:15	5,194,350	119.31	34.70	2,270
Base			7	0.107	3/29/2010 9:15	4/13/2010 5:15	4,293,669	98.62	28.68	1,876
Storm			71	0.290	4/13/2010 5:15	4/15/2010 14:15	876,173	20.12	15.86	3,883
Base			7	0.107	4/15/2010 14:15	4/24/2010 8:15	2,102,142	48.28	14.04	919
Storm			71	0.290	4/24/2010 8:15	4/24/2010 13:15	51,771	1.19	0.94	229
Base			7	0.107	4/24/2010 13:15	4/28/2010 13:15	855,595	19.65	5.72	374
Base Grab	4/29/2010 11:57	4/29/2010 11:57	11	0.073	4/28/2010 13:15	4/30/2010 13:15	318,242	7.31	1.45	219
Base			7	0.107	4/30/2010 13:15	5/7/2010 11:15	1,095,460	25.16	7.32	479
Storm			71	0.290	5/7/2010 11:15	5/8/2010 16:15	426,096	9.79	7.71	1,889
Base			7	0.107	5/8/2010 16:15	5/10/2010 23:15	639,407	14.69	4.27	279
Storm Composite	5/11/2010 2:27	5/13/2010 9:25	71	0.241	5/10/2010 23:15	5/13/2010 15:15	1,521,575	34.95	22.89	6,744
Base			7	0.107	5/13/2010 15:15	5/23/2010 15:15	3,188,174	73.23	21.30	1,393
Base Grab	5/24/2010 11:47	5/24/2010 11:47	12	0.129	5/23/2010 15:15	5/25/2010 21:15	308,277	7.08	2.48	231
Storm Composite	5/26/2010 2:02	5/26/2010 19:26	45	0.213	5/25/2010 21:15	5/26/2010 20:15	290,656	6.68	3.86	817
Base			7	0.107	5/26/2010 20:15	6/8/2010 6:15	1,574,498	36.16	10.52	688
Storm Composite	6/8/2010 12:15	6/9/2010 0:08	67	0.233	6/8/2010 6:15	6/9/2010 0:15	283,665	6.52	4.13	1,186
Base			7	0.107	6/9/2010 0:15	6/11/2010 4:15	638,189	14.66	4.26	279
Storm Composite	6/11/2010 8:22	6/12/2010 15:17	59	0.228	6/11/2010 4:15	6/12/2010 16:15	661,857	15.20	9.42	2,438
Base			7	0.107	6/12/2010 16:15	6/25/2010 18:15	2,640,853	60.66	17.64	1,154
Storm			71	0.290	6/25/2010 18:15	6/25/2010 21:15	346,828	7.97	6.28	1,537
Base			7	0.107	6/25/2010 21:15	6/26/2010 22:15	1,078,623	24.77	7.20	471
Storm			71	0.290	6/26/2010 22:15	6/27/2010 2:15	241,477	5.55	4.37	1,070
Base			7	0.107	6/27/2010 2:15	7/17/2010 20:15	4,716,875	108.34	31.51	2,061
Storm			71	0.290	7/17/2010 20:15	7/18/2010 0:15	48,049	1.10	0.87	213
Base Grab	7/21/2010 8:50	7/21/2010 8:50	5	0.123	7/18/2010 0:15	7/22/2010 0:15	473,631	10.88	3.64	148
Base			7	0.107	7/22/2010 0:15	8/2/2010 5:15	1,072,516	24.63	7.16	469
Storm			71	0.290	8/2/2010 5:15	8/2/2010 8:15	35,237	0.81	0.64	156
Base			7	0.107	8/2/2010 8:15	8/8/2010 1:15	451,103	10.36	3.01	197
Storm			71	0.290	8/8/2010 1:15	8/8/2010 4:15	27,808	0.64	0.50	123
Base			7	0.107	8/8/2010 4:15	8/8/2010 19:15	92,106	2.12	0.62	40
Storm Composite	8/8/2010 20:28	8/8/2010 23:53	115	0.377	8/8/2010 19:15	8/9/2010 0:15	171,211	3.93	4.03	1,229
Base			7	0.107	8/9/2010 0:15	8/10/2010 22:15	860,530	19.77	5.75	376
Storm			71	0.290	8/10/2010 22:15	8/11/2010 1:15	370,443	8.51	6.71	1,642
Base			7	0.107	8/11/2010 1:15	8/22/2010 1:15	3,721,477	85.48	24.86	1,626
Base Grab	8/23/2010 9:38	8/23/2010 9:38	5	0.145	8/22/2010 1:15	8/24/2010 1:15	194,869	4.48	1.76	61
Base			7	0.107	8/24/2010 1:15	8/31/2010 2:15	481,437	11.06	3.22	210
Storm			71	0.290	8/31/2010 2:15	8/31/2010 6:15	41,609	0.96	0.75	184
Base			7	0.107	8/31/2010 6:15	9/2/2010 3:15	281,474	6.47	1.88	123
Storm Composite	9/2/2010 4:31	9/3/2010 4:44	34	0.25	9/2/2010 3:15	9/3/2010 5:15	720,165	16.54	11.42	1,529
Base			7	0.107	9/3/2010 5:15	9/15/2010 19:15	2,313,943	53.15	15.46	1,011
Storm Composite	9/15/2010 20:19	9/15/2010 23:54	89	0.399	9/15/2010 19:15	9/16/2010 0:15	157,924	3.63	3.93	877
Base			7	0.107	9/16/2010 0:15	9/19/2010 0:15	938,373	21.55	6.27	410
Base Grab	9/20/2010 11:01	9/20/2010 11:01	2	0.092	9/19/2010 0:15	9/22/2010 21:15	773,785	17.77	4.44	97
Storm Composite	9/23/2010 0:13	9/23/2010 10:50	37	0.25	9/22/2010 21:15	9/23/2010 11:15	485,608	11.15	7.49	1,122
Storm Composite	9/23/2010 11:16	9/24/2010 4:38	120	0.415	9/23/2010 11:15	9/24/2010 5:15	1,849,823	42.49	47.92	13,857
Base Grab	9/28/2010 8:58	9/28/2010 8:58	5	0.107	9/24/2010 5:15	9/28/2010 17:15	4,748,116	109.06	31.72	1,482
Base			7	0.107	9/28/2010 17:15	10/5/2010 17:15	1,822,454	41.86	12.17	796
Base Grab	10/6/2010 8:57	10/6/2010 8:57	5	0.080	10/5/2010 17:15	10/7/2010 17:15	471,837	10.84	2.36	147
Base			7	0.107	10/7/2010 17:15	10/11/2010 17:15	777,440	17.86	5.19	340
Base Grab	10/12/2010 8:45	10/12/2010 8:45	5	0.107	10/11/2010 17:15	10/13/2010 17:15	339,040	7.79	2.26	106
Base			7	0.107	10/13/2010 17:15	10/25/2010 22:15	1,975,139	45.37	13.19	863
Storm			71	0.290	10/25/2010 22:15	10/26/2010 3:15	161,440	3.71	2.92	716
Base Grab	10/26/2010 9:40	10/26/2010 9:40	14	0.107	10/26/2010 3:15	10/28/2010 3:15	1,849,610	42.48	12.35	1,616
Base			7	0.107	10/28/2010 3:15	11/2/2010 11:15	1,911,020	43.89	12.76	835
Base**			7	0.107	11/2/2010 11:15	11/20/2010 0:00	6,058,800	139.16	40.47	2,648
Base**			7	0.107	11/20/2010 0:00	1/1/2011 0:00	12,700,800	291.72	84.84	5,550
Storm Average			71	0.290						
Base Average			7	0.107						
All Average			39	0.20						
Total							103,170,269	2,370	796	83,856
Brown's Creek Major Subwatershed Total Acres							8,310			
Total TP/TSS(lb/ac/yr)									0.10	10.09
Total TP/TSS (kg/ha/yr)									0.11	11.31

**Intervals indicate estimated concentrations based on average base and storm flow concentrations
 **Interval volume between 1/1/10 to 3/29/10 and 11/1/10 to 1/1/11 were estimated based upon base flow

Table 4: Brown's Creek Outlet 2010 Total Suspended Solids (TSS) and Total Phosphorus (TP) Loading

Sample Type	Sample Collection Time		TSS (mg/L)		TP (mg/L)		Loading Interval		Interval Volume (cf)	Interval Volume (ac-ft)	Interval TSS (lb)	Interval TP (lb)
	Start	End	TSS (mg/L)	TP (mg/L)	Start	End						
Base			6	0.073	1/1/2010 0:00	1/2/2010 10:00			623.483	14.32	234	2.84
Base**			6	0.073	1/2/2010 10:00	1/3/2010 3:30			973.854	22.37	365	4.44
Base			6	0.073	1/5/2010 3:30	1/18/2010 3:30			3,561.916	81.81	1,334	16.23
Base Grab	1/19/2010 8:35	1/19/2010 8:35	8	0.048	1/18/2010 3:30	1/20/2010 3:30			600.649	13.80	300	1.80
Base			6	0.073	1/20/2010 3:30	1/28/2010 2:30			2,713.182	62.32	1,016	12.36
Snowmelt			39	0.172	1/28/2010 2:30	1/29/2010 12:30			891.291	20.47	2,170	9.57
Base			6	0.073	1/29/2010 12:30	2/22/2010 12:30			8,139.652	186.96	3,049	37.09
Base Grab	2/23/2010 8:08	2/23/2010 8:08	11	0.061	2/22/2010 12:30	2/24/2010 12:30			698.894	16.05	480	2.66
Base			6	0.073	2/24/2010 12:30	3/9/2010 11:30			4,731.666	108.68	1,772	21.56
Snowmelt Grab	3/11/2010 9:17	3/11/2010 9:17	39	0.172	3/9/2010 11:30	3/12/2010 22:30			3,874.633	89.00	9,433	41.60
Base			6	0.073	3/12/2010 22:30	3/22/2010 9:30			8,891.487	204.23	3,330	40.52
Snowmelt			39	0.172	3/22/2010 9:30	3/25/2010 21:30			6,620.923	152.07	16,119	71.09
Base			6	0.073	3/25/2010 21:30	4/28/2010 21:30			18,661.900	428.64	6,990	85.04
Base Grab	4/29/2010 12:20	4/29/2010 12:20	8	0.068	4/28/2010 21:30	4/30/2010 21:30			836.666	19.22	418	3.55
Base			6	0.073	4/30/2010 21:30	5/13/2010 0:30			6,243.482	143.41	2,339	28.45
Storm			168	0.481	5/13/2010 0:30	5/14/2010 0:30			1,003.249	23.04	10,522	30.12
Base			6	0.073	5/14/2010 0:30	5/23/2010 0:30			4,691.871	107.77	1,757	21.38
Base Grab	5/24/2010 12:28	5/24/2010 12:28	13	0.109	5/23/2010 0:30	5/25/2010 0:30			812.992	18.67	660	5.53
Base			6	0.073	5/25/2010 0:30	6/1/2010 3:30			6,697.287	153.83	2,509	30.52
Storm			168	0.481	6/1/2010 3:30	6/11/2010 12:30			265.574	6.10	2,785	7.97
Base			6	0.073	6/11/2010 12:30	6/25/2010 18:30			6,058.304	139.15	2,269	27.61
Storm Composite	6/25/2010 19:20	6/28/2010 3:01	227	0.443	6/25/2010 18:30	6/28/2010 3:30			3,202.228	73.55	45,378	88.56
Base			6	0.073	6/28/2010 3:30	7/20/2010 3:30			7,854.657	180.41	2,942	35.79
Base Grab	7/21/2010 9:17	7/21/2010 9:17	3	0.076	7/20/2010 3:30	7/22/2010 3:30			586.175	13.46	110	2.78
Base			6	0.073	7/22/2010 3:30	8/8/2010 18:30			5,807.600	133.39	2,175	26.47
Storm Composite	8/8/2010 20:59	8/8/2010 23:15	320	0.945	8/8/2010 18:30	8/8/2010 23:30			248.457	5.71	4,963	14.66
Base			6	0.073	8/8/2010 23:30	8/10/2010 22:30			1,430.633	32.86	536	6.52
Storm Composite	8/10/2010 23:22	8/12/2010 8:22	198	0.457	8/10/2010 22:30	8/12/2010 8:30			1,934.042	44.42	23,905	55.18
Base			6	0.073	8/12/2010 8:30	8/22/2010 8:30			4,791.128	110.05	1,795	21.83
Base Grab	8/23/2010 10:19	8/23/2010 10:19	3	0.088	8/22/2010 8:30	8/24/2010 8:30			706.201	16.22	132	3.88
Base			6	0.073	8/24/2010 8:30	8/31/2010 3:30			2,347.118	53.91	879	10.70
Storm			168	0.481	8/31/2010 3:30	8/31/2010 8:30			130.855	3.01	1,372	3.93
Base			6	0.073	8/31/2010 8:30	9/2/2010 3:30			803.499	18.46	301	3.66
Storm Composite	9/2/2010 4:13	9/3/2010 5:52	111	0.417	9/2/2010 3:30	9/3/2010 6:30			1,122.657	25.79	7,779	29.22
Base			6	0.073	9/3/2010 6:30	9/15/2010 18:30			5,670.224	130.24	2,124	25.84
Storm Composite	9/15/2010 20:50	9/16/2010 2:30	82	0.365	9/15/2010 18:30	9/16/2010 2:30			328.209	7.54	1,680	7.48
Base Grab	9/20/2010 11:26	9/20/2010 11:26	2	0.067	9/16/2010 2:30	9/22/2010 19:30			3,556.855	81.70	444	14.88
Storm Composite	9/23/2010 0:40	9/24/2010 11:35	72	0.257	9/22/2010 19:30	9/24/2010 19:30			3,979.727	91.41	17,888	63.85
Base Grab	9/28/2010 9:14	9/28/2010 9:14	5	0.073	9/24/2010 19:30	9/28/2010 19:30			4,102.612	94.23	1,281	18.70
Base			6	0.073	9/28/2010 19:30	10/5/2010 19:30			2,764.478	63.50	1,035	12.60
Base Grab	10/6/2010 9:33	10/6/2010 9:33	4	0.069	10/5/2010 19:30	10/7/2010 19:30			704.888	16.19	176	3.04
Base			6	0.073	10/7/2010 19:30	10/11/2010 19:30			1,252.909	28.78	469	5.71
Base Grab	10/12/2010 8:56	10/12/2010 8:56	3	0.073	10/11/2010 19:30	10/13/2010 19:30			668.102	15.35	125	3.04
Base			6	0.073	10/13/2010 19:30	10/25/2010 21:30			4,422.676	101.58	1,657	20.15
Storm			168	0.481	10/25/2010 21:30	10/26/2010 4:30			230.313	5.29	2,415	6.92
Base Grab	10/26/2010 9:07	10/26/2010 9:07	6	0.073	10/26/2010 4:30	10/29/2010 4:30			2,478.574	56.93	928	11.30
Base			6	0.073	10/29/2010 4:30	11/28/2010 4:30			13,019.710	299.05	4,877	59.33
Base Grab	11/29/2010 9:44	11/29/2010 9:44	4	0.073	11/28/2010 4:30	11/30/2010 4:30			851.126	19.55	213	3.88
Base			6	0.073	11/30/2010 4:30	12/13/2010 30:30			6,262.694	143.85	2,346	28.54
Base**			6	0.073	12/13/2010 30:30	12/16/2010 0:00			954.810	21.93	358	4.35
Base			6	0.073	12/16/2010 0:00	1/1/2011 0:00			6,969.520	160.08	2,610	31.76
Storm Average			168	0.481								
Base Average			6	0.073								
Snowmelt Average			39	0.172								
All Average			59	0.243								
Total									176,775.632	4,060	202,744	1,126
Brown's Creek Major Subwatershed Total Acres									9.051			
Total TP/TSS (lb/ac/yr)											22.40	0.12
Total TP/TSS (kg/ha/yr)											25.11	0.14

*Italics indicate estimated concentrations based on average base and storm flow concentrations.

**Interval volumes from 1/2/10 to 1/5/10 and 12/13/10 to 12/16/10 were estimated using recorded base flow

Table 5: Tributary to Long Lake at Herberger's Outlet Pond 2010 Total Suspended Solids (TSS) and Total Phosphorus (TP) Loading

Sample Type	Sample Collection Time		Loading Interval				Interval Volume (cf)	Interval Volume (ac-ft)	Interval TP (lb)	Interval TSS (lb)
	Start	End	TSS (mg/L)	TP (mg/L)	Start	End				
Base**			4	0.105	1/1/2010 0:00	3/11/2010 0:00	59,616	1.37	0.4	15
Base**			4	0.105	3/11/2010 0:00	3/13/2010 0:00	86,400	1.98	0.6	22
Base**			4	0.105	3/13/2010 0:00	4/1/2010 10:30	167,940	3.86	1.1	42
Base			4	0.105	4/1/2010 10:30	4/2/2010 13:30	11,298	0.26	0.1	3
Storm			18	0.091	4/2/2010 13:30	4/2/2010 22:30	23,293	0.54	0.1	26
Base			4	0.105	4/2/2010 22:30	4/15/2010 3:30	411,591	9.45	2.7	103
Storm Composite	4/15/10 4:47	4/15/10 8:28	21	0.073	4/15/2010 3:30	4/15/2010 8:30	41,778	0.96	0.2	55
Base			4	0.105	4/15/2010 8:30	5/7/2010 11:30	639,120	14.68	4.2	160
Storm			18	0.091	5/7/2010 11:30	5/8/2010 2:30	60,170	1.38	0.3	68
Base			4	0.105	5/8/2010 2:30	5/11/2010 1:30	159,835	3.67	1.0	40
Storm Composite	5/11/10 2:22	5/11/10 15:30	9	0.048	5/11/2010 1:30	5/11/2010 15:30	119,320	2.74	0.4	67
Base			4	0.105	5/11/2010 15:30	5/12/2010 14:30	68,668	1.58	0.5	17
Storm**			18	0.091	5/12/2010 14:30	5/14/2010 0:30	244,800	5.62	1.4	275
Base**			4	0.105	5/14/2010 0:30	5/25/2010 16:30	50,400	1.16	0.3	13
Base			4	0.105	5/25/2010 16:30	5/25/2010 20:30	461	0.01	0.0	0
Storm Composite	5/25/10 21:41	5/26/10 3:30	22	0.106	5/25/2010 20:30	5/26/2010 3:30	58,842	1.35	0.4	81
Base			4	0.105	5/26/2010 3:30	6/8/2010 6:30	76,665	1.76	0.5	19
Storm Composite	6/8/10 7:29	6/8/10 21:05	11	0.216	6/8/2010 6:30	6/8/2010 22:30	102,039	2.34	1.4	70
Base			4	0.105	6/8/2010 22:30	6/11/2010 3:30	20,691	0.48	0.1	5
Storm Composite	6/11/10 7:11	6/11/10 13:23	23	0.062	6/11/2010 3:30	6/11/2010 13:30	91,542	2.10	0.4	131
Base			4	0.105	6/11/2010 13:30	6/15/2010 0:30	45,937	1.06	0.3	11
Storm			18	0.091	6/15/2010 0:30	6/15/2010 5:30	7,378	0.17	0.0	8
Base			4	0.105	6/15/2010 5:30	6/25/2010 18:30	66,036	1.52	0.4	16
Storm Composite	6/25/10 19:01	6/25/10 21:39	32	0.086	6/25/2010 18:30	6/25/2010 22:30	106,082	2.44	0.6	212
Base			4	0.105	6/25/2010 22:30	6/26/2010 21:30	22,285	0.51	0.1	6
Storm Composite	6/26/10 23:07	6/27/10 2:53	25	0.085	6/26/2010 21:30	6/27/2010 3:30	165,292	3.80	0.9	258
Base			4	0.105	6/27/2010 3:30	7/5/2010 15:30	65,866	1.51	0.4	16
Storm Composite	7/5/10 16:38	7/6/10 2:23	8	0.058	7/5/2010 15:30	7/6/2010 2:30	64,054	1.47	0.2	32
Base			4	0.105	7/6/2010 2:30	7/17/2010 20:30	80,174	1.84	0.5	20
Storm Composite	7/17/10 21:16	7/18/10 1:12	12	0.088	7/17/2010 20:30	7/18/2010 1:30	78,649	1.81	0.4	59
Base Grab	7/21/10 7:51	7/21/10 7:51	2	0.072	7/18/2010 1:30	7/24/2010 2:30	64,686	1.49	0.3	8
Storm			18	0.091	7/24/2010 2:30	7/24/2010 7:30	21,541	0.49	0.1	24
Base			4	0.105	7/24/2010 7:30	8/2/2010 5:30	83,001	1.91	0.5	21
Storm			18	0.091	8/2/2010 5:30	8/2/2010 11:30	9,093	0.21	0.1	10
Base			4	0.105	8/2/2010 11:30	8/8/2010 1:30	48,809	1.12	0.3	12
Storm Composite	8/8/10 2:25	8/8/10 4:47	9	0.133	8/8/2010 1:30	8/8/2010 5:30	27,538	0.63	0.2	15
Base			4	0.105	8/8/2010 5:30	8/8/2010 18:30	13,491	0.31	0.1	3
Storm Composite	8/8/10 19:08	8/8/10 23:49	16	0.046	8/8/2010 18:30	8/9/2010 0:30	163,511	3.76	0.5	163
Base			4	0.105	8/9/2010 0:30	8/10/2010 22:30	36,565	0.84	0.2	9
Storm Composite	8/10/10 22:41	8/11/10 6:10	9	0.078	8/10/2010 22:30	8/11/2010 6:30	305,647	7.02	1.5	172
Base			4	0.105	8/11/2010 6:30	8/13/2010 4:30	39,423	0.91	0.3	10
Storm			18	0.091	8/13/2010 4:30	8/13/2010 8:30	14,995	0.34	0.1	17
Base			4	0.105	8/13/2010 8:30	8/13/2010 15:30	10,564	0.24	0.1	3
Storm Composite	8/13/2010 15:55	8/13/2010 23:06	9	0.068	8/13/2010 15:30	8/13/2010 23:30	192,963	4.43	0.8	108
Base			4	0.105	8/13/2010 23:30	8/21/2010 23:30	74,673	1.72	0.5	19
Base Grab	8/23/10 15:03	8/23/10 15:03	6	0.138	8/21/2010 23:30	8/23/2010 23:30	6,643	0.15	0.1	2
Base			4	0.105	8/23/2010 23:30	9/2/2010 3:30	29,439	0.68	0.2	7
Storm Composite	9/2/10 3:39	9/2/10 11:26	8	0.132	9/2/2010 3:30	9/2/2010 11:30	128,512	2.95	1.1	64
Base			4	0.105	9/2/2010 11:30	9/15/2010 19:30	71,861	1.65	0.5	18
Storm Composite	9/15/10 21:00	9/16/10 1:03	50	0.079	9/15/2010 19:30	9/16/2010 1:30	29,038	0.67	0.1	91
Base			4	0.105	9/16/2010 1:30	9/22/2010 21:30	55,868	1.28	0.4	14
Storm			18	0.091	9/22/2010 21:30	9/23/2010 17:30	344,735	7.92	2.0	387
Base			4	0.105	9/23/2010 17:30	10/25/2010 22:30	142,828	3.28	0.9	36
Storm			18	0.091	10/25/2010 22:30	10/26/2010 20:30	61,387	1.41	0.3	69
Base			4	0.105	10/26/2010 20:30	11/3/2010 13:30	39,460	0.91	0.3	10
Base**			4	0.105	11/3/2010 13:30	11/20/2010 13:30	44,064	1.01	0.3	11
Base**			4	0.105	11/20/2010 13:30	1/1/2011 0:00	35,802	0.82	0.2	9
Storm Average			18	0.091						
Base Average			4	0.105						
All Average			16	0.092						
Total							5,292,359	122	32	3,163
Brown's Creek Major Subwatershed Total Acres							111			
Total TP/TSS(lb/ac/yr)									0.287	28.49
Total TP/TSS (kg/ha/yr)									0.322	31.94

*Italics indicate estimated concentrations based on average base and storm flow concentrations

** Interval volumes from 1/1/09 to 5/18/09, 5/12/10 to 5/25/10, and 10/8/09 to 1/1/10 were estimated using base flow

Table 6: Tributary to Long Lake at Marketplace Pond 2010 Total Suspended Solids (TSS) and Total Phosphorus (TP) Loading

Sample Type	Sample Collection Time		Loading Interval		Interval Volume (cf)	Interval Volume (ac-ft)	Interval TP (lb)	Interval TSS (lb)		
	Start	End	TSS (mg/L)	TP (mg/L)					Start	End
Base**			2	0.104	1/1/2010 0:00	3/7/2010 5:00	2,817,000	64.70	18.29	352
Snowmelt Grab**	3/8/2010 12:49	3/8/2010 12:49	5	0.091	3/7/2010 5:00	3/9/2010 17:00	432,000	9.92	2.45	135
Base**			2	0.104	3/9/2010 17:00	3/31/2010 10:45	939,150	21.57	6.10	117
Base**			2	0.104	3/31/2010 10:45	4/2/2010 12:45	180,000	4.13	1.17	22
Storm			14	0.069	4/2/2010 12:45	4/2/2010 15:45	24,378	0.56	0.11	21
Base			2	0.104	4/2/2010 15:45	4/6/2010 15:45	159,950	3.67	1.04	20
Storm			14	0.069	4/6/2010 15:45	4/7/2010 0:45	58,514	1.34	0.25	51
Base			2	0.104	4/7/2010 0:45	4/13/2010 4:45	239,284	5.50	1.55	30
Storm			14	0.069	4/13/2010 4:45	4/13/2010 7:45	16,146	0.37	0.07	14
Base			2	0.104	4/13/2010 7:45	4/15/2010 1:45	130,856	3.01	0.85	16
Storm Composite	4/15/2010 3:24	4/15/2010 14:48	20	0.034	4/15/2010 1:45	4/15/2010 14:45	183,323	4.21	0.62	229
Base			2	0.104	4/15/2010 14:45	4/24/2010 7:45	323,704	7.44	2.10	40
Storm			14	0.069	4/24/2010 7:45	4/24/2010 14:45	51,618	1.19	0.22	45
Base Grab	4/29/2010 11:31	4/29/2010 11:31	2	0.064	4/24/2010 14:45	4/30/2010 1:45	263,262	6.05	1.05	33
Storm			14	0.069	4/30/2010 1:45	4/30/2010 3:45	7,709	0.18	0.03	7
Base			2	0.104	4/30/2010 3:45	5/7/2010 8:45	194,130	4.46	1.26	24
Storm			14	0.069	5/7/2010 8:45	5/8/2010 3:45	180,946	4.16	0.78	158
Base			2	0.104	5/8/2010 3:45	5/10/2010 18:45	193,429	4.44	1.26	24
Storm Composite	5/11/2010 1:12	5/11/2010 21:40	10	0.068	5/10/2010 18:45	5/11/2010 19:45	343,082	7.88	1.46	214
Base			2	0.104	5/11/2010 19:45	5/13/2010 0:45	144,316	3.31	0.94	18
Storm Composite	5/13/2010 3:52	5/14/2010 2:19	14	0.030	5/13/2010 0:45	5/14/2010 2:45	514,932	11.83	1.61	450
Base			2	0.104	5/14/2010 2:45	5/25/2010 19:45	425,705	9.78	2.76	53
Storm Composite	5/25/2010 21:54	5/26/2010 20:45	12	0.065	5/25/2010 19:45	5/26/2010 20:45	488,065	11.21	1.98	366
Base			2	0.104	5/26/2010 20:45	6/4/2010 1:45	432,535	9.93	2.81	54
Storm Composite	6/4/2010 3:50	6/4/2010 15:15	24	0.078	6/4/2010 1:45	6/4/2010 15:45	101,054	2.32	0.49	151
Base			2	0.104	6/4/2010 15:45	6/5/2010 12:45	79,222	1.82	0.51	10
Storm			14	0.069	6/5/2010 12:45	6/5/2010 22:45	75,636	1.74	0.33	66
Base			2	0.104	6/5/2010 22:45	6/6/2010 15:45	80,946	1.86	0.53	10
Storm			14	0.069	6/6/2010 15:45	6/6/2010 18:45	26,963	0.62	0.12	24
Base			2	0.104	6/6/2010 18:45	6/8/2010 5:45	139,334	3.20	0.31	104
Storm Composite	6/8/2010 7:25	6/8/2010 23:50	12	0.036	6/8/2010 5:45	6/8/2010 23:45	471,267	10.82	3.06	59
Base			2	0.104	6/8/2010 23:45	6/11/2010 3:45	243,780	5.60	1.58	30
Storm Composite	6/11/2010 6:59	6/11/2010 18:11	13	0.044	6/11/2010 3:45	6/11/2010 18:45	387,324	8.90	1.06	314
Base			2	0.104	6/11/2010 18:45	6/12/2010 13:45	141,209	3.24	0.92	18
Storm			14	0.069	6/12/2010 13:45	6/12/2010 21:45	65,102	1.50	0.28	57
Base			2	0.104	6/12/2010 21:45	6/14/2010 9:45	146,041	3.35	0.95	18
Storm			14	0.069	6/14/2010 9:45	6/15/2010 7:45	156,311	3.59	0.67	137
Base			2	0.104	6/15/2010 7:45	6/25/2010 9:45	613,924	14.10	3.99	77
Storm**			14	0.069	6/25/2010 9:45	6/25/2010 22:45	93,600	2.15	0.40	82
Base**			2	0.104	6/25/2010 22:45	6/26/2010 22:45	66,528	1.53	0.43	8
Storm**			14	0.069	6/26/2010 22:45	6/27/2010 3:30	136,800	3.14	0.59	120
Base**			2	0.104	6/27/2010 3:30	7/5/2010 15:30	565,488	12.99	3.67	71
Storm**			14	0.069	7/5/2010 15:30	7/6/2010 4:45	381,600	8.76	1.64	334
Base**			2	0.104	7/6/2010 4:45	7/6/2010 13:45	24,948	0.57	0.16	3
Base			2	0.104	7/6/2010 13:45	7/14/2010 13:45	393,390	9.04	2.55	49
Storm			14	0.069	7/14/2010 13:45	7/14/2010 20:45	73,882	1.70	0.32	65
Base			2	0.104	7/14/2010 20:45	7/17/2010 20:45	190,253	4.37	1.24	24
Storm Composite	7/17/2010 21:00	7/18/2010 1:20	19	0.149	7/17/2010 20:45	7/18/2010 2:45	184,424	4.24	1.72	219
Base			2	0.104	7/18/2010 2:45	7/22/2010 3:45	359,077	8.25	2.33	45
Storm			14	0.069	7/22/2010 3:45	7/22/2010 18:45	115,050	2.64	0.50	101
Base			2	0.104	7/22/2010 18:45	7/24/2010 1:45	116,122	2.67	0.75	14
Storm			14	0.069	7/24/2010 1:45	7/24/2010 8:45	160,917	3.70	0.69	141
Base			2	0.104	7/24/2010 8:45	7/26/2010 3:45	221,365	5.08	1.44	28
Base**			2	0.104	7/26/2010 3:45	7/30/2010 14:45	342,828	7.87	2.23	43
Base			2	0.104	7/30/2010 14:45	8/2/2010 2:45	77,456	1.78	0.50	10
Storm			14	0.069	8/2/2010 2:45	8/2/2010 17:45	116,485	2.68	0.50	102
Base			2	0.104	8/2/2010 17:45	8/8/2010 0:45	270,035	6.20	1.75	34
Storm Composite	8/8/2010 2:13	8/8/2010 7:49	12	0.083	8/8/2010 0:45	8/8/2010 7:45	171,471	3.94	0.89	128
Base			2	0.104	8/8/2010 7:45	8/8/2010 18:45	123,133	2.83	0.80	15
Storm Composite	8/8/2010 19:05	8/9/2010 10:07	15	0.109	8/8/2010 18:45	8/9/2010 10:45	608,159	13.97	4.14	569
Base			2	0.104	8/9/2010 10:45	8/10/2010 20:45	200,270	4.60	1.30	25
Storm Composite	8/10/2010 22:40	8/11/2010 17:05	8	0.062	8/10/2010 20:45	8/11/2010 17:45	1,129,540	25.94	4.37	564
Base			2	0.104	8/11/2010 17:45	8/13/2010 2:45	308,813	7.09	2.00	39
Storm Composite	8/13/2010 4:57	8/14/2010 10:22	10	0.079	8/13/2010 2:45	8/14/2010 10:45	1,001,371	23.00	4.94	625
Base			2	0.104	8/14/2010 10:45	8/15/2010 1:45	127,106	2.92	0.83	16
Base**			2	0.104	8/15/2010 1:45	8/17/2010 10:45	274,968	6.32	1.79	34
Base			2	0.104	8/17/2010 10:45	8/23/2010 10:45	177,055	4.07	1.15	22
Base Grab	8/24/2010 11:11	8/24/2010 11:11	2	0.144	8/23/2010 10:45	8/25/2010 6:45	54,617	1.25	0.49	7
Base**			2	0.104	8/25/2010 6:45	9/2/2010 4:45	232,560	5.34	1.51	29
Storm**			14	0.069	9/2/2010 4:45	9/2/2010 11:45	253,048	5.93	1.11	226
Base**			2	0.104	9/2/2010 11:45	9/15/2010 20:45	1,155,600	26.54	7.50	144
Storm**			14	0.069	9/15/2010 20:45	9/16/2010 2:45	172,800	3.97	0.74	151
Base**			2	0.104	9/16/2010 2:45	9/22/2010 22:45	454,608	10.44	2.95	57
Storm Grab**	9/23/2010 14:47	9/23/2010 14:47	8	0.021	9/22/2010 22:45	9/23/2010 18:45	864,000	19.85	1.13	431
Base**			2	0.104	9/23/2010 18:45	10/25/2010 23:45	3,116,736	71.59	20.23	389
Storm**			14	0.069	10/25/2010 23:45	10/26/2010 21:45	633,600	14.55	2.73	554
Base**			2	0.104	10/26/2010 21:45	11/20/2010 19:45	1,657,656	38.07	10.76	207
Base**			2	0.104	11/20/2010 19:45	1/1/2011 0:00	1,778,850	40.86	11.55	222
Storm Average			14	0.069						
Base Average			2	0.104						
All Average			12	0.073						
Total							29,863,356	686	172	9,514
Brown's Creek Major Subwatershed Total Acres							448			
Total TP/TSS(lb/ac/yr)								0.384	21.24	
Total TP/TSS (kg/ha/yr)								0.430	23.80	

*Tables indicate estimated concentrations based on average base and storm flow concentrations
**Interval volume between 1/1/10 to 4/2/10, 6/25/10 to 7/6/10, 7/26/10 to 7/30/10, 8/15/10 to 8/17/10, and 8/25/10 to 1/1/11 were estimated using recorded base flow

Table 7: Tributary to Long Lake at 62nd Street 2010 Total Suspended Solids (TSS) and Total Phosphorus (TP) Loading

Sample Type	Sample Collection Time		Loading Interval		Interval Volume (cf)	Interval Volume (ac-ft)	Interval TP (lb)	Interval TSS (lb)		
	Start	End	TSS (mg/L)	TP (mg/L)					Start	End
Base**			20	0.254	1/1/2010 0:00	3/9/2010 5:00	5,807	0.13	0.09	7
Snowmelt Grab**	3/10/2010 16:40	3/10/2010 16:40	7	0.269	3/9/2010 5:00	3/11/2010 17:00	43,200	0.99	0.73	19
Base**			20	0.254	3/11/2010 17:00	3/31/2010 9:15	68,004	1.56	1.08	85
Base**			20	0.254	3/31/2010 9:15	4/5/2010 19:15	4,680	0.11	0.07	6
No Flow			0	0.000	4/5/2010 19:15	4/15/2010 11:15	0	0.00	0.00	0
Storm			138	0.585	4/15/2010 11:15	4/15/2010 16:15	5,097	0.12	0.19	44
Intermittent Flow			20	0.254	4/15/2010 16:15	4/22/2010 16:15	3,396	0.08	0.05	4
No Flow			0	0.000	4/22/2010 16:15	4/29/2010 11:15	0	0.00	0.00	0
Base Grab	4/29/2010 11:17	4/29/2010 11:17	33	0.239	4/29/2010 11:15	5/2/2010 5:15	10,591	0.24	0.16	22
Base			20	0.254	5/2/2010 5:15	5/13/2010 5:15	32,582	0.75	0.52	41
Storm			138	0.585	5/13/2010 5:15	5/13/2010 16:15	27,053	0.62	0.99	233
Base			20	0.254	5/13/2010 16:15	5/25/2010 22:15	100,755	2.31	1.60	126
Storm			138	0.585	5/25/2010 22:15	5/26/2010 5:15	16,259	0.37	0.59	140
Base			20	0.254	5/26/2010 5:15	6/8/2010 7:15	45,068	1.04	0.71	56
Storm			138	0.585	6/8/2010 7:15	6/8/2010 22:15	29,413	0.68	1.07	253
Base			20	0.254	6/8/2010 22:15	6/11/2010 6:15	12,210	0.28	0.19	15
Storm Composite	6/11/2010 15:48	6/11/2010 15:48	138	0.834	6/11/2010 6:15	6/11/2010 16:15	39,081	0.90	2.03	337
Base			20	0.254	6/11/2010 16:15	6/25/2010 18:15	29,912	0.69	0.47	37
Storm			138	0.585	6/25/2010 18:15	6/26/2010 0:15	72,862	1.67	2.66	628
Base			20	0.254	6/26/2010 0:15	6/26/2010 22:15	23,921	0.55	0.38	30
Storm			138	0.585	6/26/2010 22:15	6/27/2010 4:15	71,214	1.64	2.60	613
Base			20	0.254	6/27/2010 4:15	7/5/2010 12:15	65,088	1.49	1.03	81
Storm Composite	7/6/2010 8:36	7/6/2010 8:36	229	0.860	7/5/2010 12:15	7/6/2010 9:15	55,263	1.27	2.97	790
Base			20	0.254	7/6/2010 9:15	7/14/2010 14:15	26,028	0.60	0.41	32
Storm			138	0.585	7/14/2010 14:15	7/15/2010 1:15	8,483	0.19	0.31	73
Base			20	0.254	7/15/2010 1:15	7/17/2010 16:15	7,040	0.16	0.11	9
Storm			138	0.585	7/17/2010 16:15	7/18/2010 3:15	30,289	0.70	1.11	261
Base			20	0.254	7/18/2010 3:15	7/29/2010 11:15	35,430	0.81	0.56	44.24
Intermittent Flow			20	0.254	7/29/2010 11:15	8/2/2010 3:15	31	0.00	0.00	0
Storm			138	0.585	8/2/2010 3:15	8/2/2010 13:15	4,818	0.11	0.18	42
Base			20	0.254	8/2/2010 13:15	8/4/2010 0:15	3,735	0.09	0.06	5
Intermittent Flow			20	0.254	8/4/2010 0:15	8/8/2010 4:15	399	0.01	0.01	0
Storm Composite	8/8/2010 23:16	8/8/2010 23:16	138	0.490	8/8/2010 4:15	8/9/2010 1:15	41,789	0.96	1.28	360
Base			20	0.254	8/9/2010 1:15	8/10/2010 22:15	14,524	0.33	0.23	18
Storm Composite	8/10/2010 23:30	8/11/2010 6:42	77	0.543	8/10/2010 22:15	8/11/2010 7:15	329,300	7.56	11.16	1,583
Base			20	0.254	8/11/2010 7:15	8/13/2010 6:15	32,702	0.75	0.519	40.83
Storm Composite	8/13/2010 21:26	8/13/2010 21:26	138	0.413	8/13/2010 6:15	8/13/2010 23:15	43,190	0.99	1.11	372
Base			20	0.254	8/13/2010 23:15	9/2/2010 3:15	63,945	1.47	1.01	80
Storm Composite	9/2/2010 5:47	9/2/2010 7:06	138	0.423	9/2/2010 3:15	9/2/2010 10:15	70,093	1.61	1.85	604
Base			20	0.254	9/2/2010 10:15	9/3/2010 21:15	16,115	0.37	0.26	20
Intermittent Flow			20	0.254	9/3/2010 21:15	9/15/2010 19:15	1,765	0.04	0.03	2
Storm			138	0.585	9/15/2010 19:15	9/16/2010 5:15	19,267	0.44	0.70	166
Intermittent Flow			20	0.254	9/16/2010 5:15	9/22/2010 22:15	8,400	0.19	0.13	10
Storm Composite	9/23/2010 2:16	9/24/2010 13:48	109	0.530	9/22/2010 22:15	9/24/2010 14:15	442,923	10.17	14.65	3,014
Base			20	0.254	9/24/2010 14:15	10/25/2010 21:15	176,788	4.06	2.80	221
Storm			138	0.585	10/25/2010 21:15	10/26/2010 23:15	69,300	1.59	2.53	597
Base			20	0.254	10/26/2010 23:15	10/28/2010 6:15	7,343	0.17	0.12	9
Intermittent Flow			20	0.254	10/28/2010 6:15	11/2/2010 14:15	39	0.00	0.00	0
Base**			20	0.254	11/2/2010 14:15	1/1/2011 0:00	0	0.00	0.00	0
Storm Average			138	0.585						
Base/Snowmelt Average			20	0.254						
All Average			91	0.511						
Total							2,215,192	51	61	11,131
Brown's Creek Major Subwatershed Total Acres							561			
Total TP/TSS(lb/ac/yr)									0.109	19.84
Total TP/TSS (kg/ha/yr)									0.123	22.24

*Italics indicate estimated concentrations based on average base and storm flow concentrations
**Interval volumes from 1/1/10 to 4/5/10 and 11/2/10 to 1/1/11 were estimated using base flow

Table 8: Brown's Creek Diversion Structure Drainage 2010 Total Suspended Solids (TSS) and Total Phosphorus (TP) Loading

Sample Type	Sample Collection Time		TSS (mg/L)		TP (mg/L)		Loading Interval		Interval Volume (cf)	Interval Volume (ac-ft)	Interval TP (lb)	Interval TSS (lb)
	Start	End	TSS (mg/L)	TP (mg/L)	Start	End						
Base**			7	0.072			1/1/2010 0:00	3/11/2010 7:00	2,334,852	53.63	10.49	1,020
Snowmelt Grab**	3/11/2010 8:29	3/11/2010 8:29	29	0.219			3/11/2010 7:00	3/11/2010 18:00	63,360	1.46	0.87	115
Base**			7	0.072			3/11/2010 18:00	3/12/2010 7:00	35,100	0.81	0.16	15
Snowmelt Grab**	3/12/2010 11:40	3/12/2010 11:40	58	0.387			3/12/2010 7:00	3/12/2010 18:00	63,360	1.46	1.53	229
Base**			7	0.072			3/12/2010 18:00	3/29/2010 14:15	1,091,475	25.07	4.91	477
Base			7	0.072			3/29/2010 14:15	4/15/2010 3:15	869,266	19.97	3.91	380
Storm			929	1.310			4/15/2010 3:15	4/15/2010 19:15	58,807	1.35	4.81	3,410
Base			7	0.072			4/15/2010 19:15	4/24/2010 8:15	300,580	6.90	1.35	131
Storm			929	1.310			4/24/2010 8:15	4/24/2010 16:15	17,655	0.41	1.44	1,024
Base Grab	4/29/2010 11:27	4/29/2010 11:27	3	0.050			4/24/2010 16:15	5/7/2010 11:15	360,911	8.29	1.13	68
Storm			929	1.310			5/7/2010 11:15	5/8/2010 8:15	47,874	1.10	3.92	2,776
Base			7	0.072			5/8/2010 8:15	5/11/2010 0:15	90,113	2.07	0.41	39
Storm Composite	5/11/2010 1:55	5/13/2010 7:42	39	0.152			5/11/2010 0:15	5/13/2010 8:15	174,240	4.00	1.65	424
Storm			929	1.310			5/13/2010 8:15	5/13/2010 21:15	119,738	2.75	9.79	6,944
Base			7	0.072			5/13/2010 21:15	5/20/2010 21:15	643,887	14.79	2.89	281
Base Grab	5/24/2010 11:24	5/24/2010 11:24	14	0.109			5/20/2010 21:15	5/25/2010 21:15	210,470	4.83	1.43	184
Storm Grab	5/26/2010 7:48	5/26/2010 7:48	40	0.178			5/25/2010 21:15	5/26/2010 8:15	43,988	1.01	0.49	110
Base			7	0.072			5/26/2010 8:15	6/4/2010 3:15	328,899	7.55	1.48	144
Storm			929	1.310			6/4/2010 3:15	6/4/2010 7:15	7,216	0.17	0.59	418
Base			7	0.072			6/4/2010 7:15	6/8/2010 6:15	140,709	3.23	0.63	61
Storm Composite	6/8/2010 13:05	6/9/2010 1:54	660	0.504			6/8/2010 6:15	6/9/2010 2:15	119,000	2.73	3.74	4,903
Base			7	0.072			6/9/2010 2:15	6/11/2010 4:15	92,580	2.13	0.42	40
Storm Composite	6/11/2010 8:35	6/11/2010 22:39	1800	0.860			6/11/2010 4:15	6/11/2010 23:15	140,909	3.24	7.56	15,834
Base			7	0.072			6/11/2010 23:15	6/22/2010 13:15	1,015,489	23.32	4.56	444
Storm Composite***	6/22/2010 14:25	6/22/2010 21:33	7660	4.280			6/22/2010 13:15	6/22/2010 22:15	107,118	2.46	28.62	51,222
Base			7	0.072			6/22/2010 22:15	6/24/2010 16:15	150,461	3.46	0.68	66
Storm Composite	6/24/2010 17:11	6/25/2010 7:15	2100	1.860			6/24/2010 16:15	6/25/2010 7:15	211,957	4.87	24.61	27,786
Base			7	0.072			6/25/2010 7:15	6/25/2010 18:15	111,986	2.57	0.50	49
Storm Composite	6/25/2010 19:35	6/26/2010 9:19	2600	4.020			6/25/2010 18:15	6/26/2010 10:15	633,651	14.55	159.02	102,847
Base			7	0.072			6/26/2010 10:15	7/17/2010 18:15	5,103,553	117.22	22.94	2,230
Storm			929	1.310			7/17/2010 18:15	7/18/2010 1:15	20,043	0.46	1.64	1,162
Base Grab	7/21/2010 8:08	7/21/2010 8:08	4	0.080			7/18/2010 1:15	8/2/2010 5:15	1,315,439	30.21	6.57	328
Storm Grab	8/2/2010 8:40	8/2/2010 8:40	29	0.139			8/2/2010 5:15	8/2/2010 9:15	21,578	0.50	0.19	39
Base			7	0.072			8/2/2010 9:15	8/8/2010 18:15	392,773	9.02	1.77	172
Storm Composite	8/8/2010 20:15	8/8/2010 20:50	929	1.280			8/8/2010 18:15	8/8/2010 23:15	49,287	1.13	3.94	2,858
Base			7	0.072			8/8/2010 23:15	8/10/2010 22:15	355,626	8.17	1.60	155
Storm Composite	8/10/2010 23:20	8/11/2010 12:36	768	1.300			8/10/2010 22:15	8/11/2010 13:15	788,854	18.12	64.02	37,820
Base Grab	8/23/2010 14:20	8/23/2010 14:20	6	0.063			8/11/2010 13:15	8/24/2010 13:15	5,904,441	135.62	23.22	2,212
Base			7	0.072			8/24/2010 13:15	8/31/2010 4:15	554,392	12.73	2.49	242
Storm			929	1.310			8/31/2010 4:15	8/31/2010 7:15	13,814	0.32	1.13	801
Base			7	0.072			8/31/2010 7:15	9/2/2010 3:15	140,821	3.23	0.63	62
Storm Composite	9/2/2010 4:03	9/3/2010 7:11	218	1.330			9/2/2010 3:15	9/3/2010 7:15	349,799	8.03	29.04	4,760
Base			7	0.072			9/3/2010 7:15	9/15/2010 19:15	1,607,768	36.93	7.23	703
Storm			929	1.310			9/15/2010 19:15	9/16/2010 2:15	58,813	1.35	4.81	3,411
Base Grab	9/16/2010 8:42	9/16/2010 8:42	11	0.083			9/16/2010 2:15	9/22/2010 21:15	732,043	16.81	3.79	503
Storm Composite	9/23/2010 0:24	9/23/2010 9:33	365	0.592			9/22/2010 21:15	9/23/2010 10:15	137,245	3.15	5.07	3,127
Storm Composite	9/23/2010 10:52	9/24/2010 11:18	714	1.090			9/23/2010 10:15	9/24/2010 12:15	1,442,772	33.14	98.17	64,308
Base			7	0.072			9/24/2010 12:15	10/5/2010 12:15	4,596,382	105.57	20.66	2,009
Base Grab	10/6/2010 9:13	10/6/2010 9:13	2	0.045			10/5/2010 12:15	10/7/2010 12:15	155,800	3.58	0.44	19
Base			7	0.072			10/7/2010 12:15	10/25/2010 22:15	802,160	18.42	3.61	351
Storm			929	1.310			10/25/2010 22:15	10/26/2010 4:15	43,676	1.00	3.57	2,533
Base			7	0.072			10/26/2010 4:15	11/2/2010 14:00	674,002	15.48	3.03	295
Base**			7	0.072			11/2/2010 14:00	11/20/2010 14:00	1,275,264	29.29	5.73	557
Base**			7	0.072			11/20/2010 14:00	1/1/2011 0:00	2,075,472	47.67	9.33	907
Storm Average			929	1.310								
Base Average			7	0.072								
All Average			498	0.941								
Total									38,197,468	877	608	353,007
Brown's Creek Major Subwatershed Total Acres										3,837		
Total TP/TSS (lb/ac/yr)											0.16	92.00
Total TP/TSS (kg/ha/yr)											0.18	103.12

*Italics indicate estimated concentrations based on average base and storm flow concentrations
 **Interval volumes from 1/1/10 to 3/29/10 and 11/2/10 to 1/1/11 were estimated using recorded base flow
 *** TSS Value omitted from average storm event

Table 9: Brown's Creek at Hwy 15 2010 Primary Water Quality Results

Date/Time	Transparency (cm)	Water Temperature (C)	Dissolved Oxygen (mg/L)	Conductivity (umhos/cm)	pH
3/11/2010 8:14	61	1	10.85	251	8.2
4/5/2010 15:33		10.3	9.48	323	
4/20/2010 13:38	>100	15.5	8.04	322	7.4
4/29/2010 11:12	>120	11.8	7.18	365	7.5
5/5/2010 14:27	>100	11.8	9.07	437	6.8
5/10/2010 11:04		9.9	8.18	340	7.7
5/12/2010 8:08	>120				7.8
5/13/2010 8:38	>100	8	7.79	280	8
5/20/2010 8:22	>100	13.3	6.25	376	7.7
5/24/2010 11:13	>100	21.5	4.82	364	7.8
6/3/2010 13:23	>120	20.3	7.35	360	7.3
6/17/2010 14:33	>120	23.1	7.45	367	7.5
6/30/2010 14:47	>100	21	4.57	373	6.6
7/14/2010 13:40	>120	21.8	5.04	402	7.4
7/21/2010 8:35	>120	17.7	5.73	418	7.7
7/27/2010 8:19	>100	19.6	4.47	430	7.3
7/28/2010 11:58	>120	21.8	8.2	413	7.8
8/13/2010 9:20	>100	21.9	1.84	325	
8/23/2010 8:57	>120	19.9	3.93	388	7.7
8/26/2010 9:04	>120	14.6	4.36	424	6.9
8/26/2010 14:02	92	19.1	7.57	408	7.2
9/8/2010 9:33	>120	12.4	5.69	423	6.7
9/20/2010 10:16	>120	11.6	5.47	392	6.9
9/22/2010 14:00	>120	14.7	6.95	358	7.6
9/28/2010 8:22	>120	11	5.88	403	7.2
10/6/2010 8:58	>100	9.1	7.7	892	8.2
10/8/2010 9:18		9.3	7.43	395	7.9
10/12/2010 8:05	>120	10.7	6.78	399	7.3
10/26/2010 10:29	95				

Exceeds Water Quality Standard

Table 10: Brown's Creek at McKusick Road 2010 Primary Water Quality Results

Date/Time	Transparency (cm)	Water Temperature (C)	Dissolved Oxygen (mg/L)	Conductivity (umhos/cm)	pH
3/11/2010 8:43	41	0.8	11.78	271	8
4/5/2010 15:51		11.3	10.31	354	
4/20/2010 14:18	>100	15.4	10	343	8.2
4/29/2010 11:41	>120	11.1	9.8	396	8.3
5/5/2010 14:54	>100	10.8	11.12	472	8.3
5/10/2010 10:35		9	10.97	368	8.3
5/20/2010 9:00	>100	12.1	9.6	411	8.1
5/24/2010 11:35	70	19.6	7.2	401	8.2
6/3/2010 13:40	>120	16.8	8.46	383	7.8
6/17/2010 15:07		20.3	7	370	7.3
6/30/2010 15:20	72	18.5	5.77	354	7.5
7/14/2010 14:15		20.2	8.29	431	7.4
7/21/2010 8:23	96	17.7	8.15	443	8
7/27/2010 8:48	115	18.8	7.03	451	7.3
7/28/2010 11:51	105	19.9	7.13	439	7.2
8/13/2010 9:43	>100	21.3	4.92	338	
8/23/2010 9:18	110	19.5	7.84	400	8
8/26/2010 9:29	>120	14.4	7.35	448	7.2
8/26/2010 14:30	>120	17.1	7.95	444	7.6
9/8/2010 10:11	>120	12.5	8.47	443	6.9
9/20/2010 10:33	85	11.9	7.3	414	7.4
9/22/2010 14:26	>120	13.1	9.02	391	7.5
9/28/2010 8:37	>120	11.4	7.81	390	7.3
10/6/2010 9:28	>100	10	8.67	413	7.7
10/8/2010 9:42		9.9	8.75	423	7.9
10/12/2010 8:18	>120	11.7	8.19	419	7.5
10/26/2010 10:08	85				

Exceeds Water Quality Standard

Table 11: Brown's Creek at Stonebridge Trail 2010 Primary Water Quality Results

Date/Time	Transparency (cm)	Water Temperature (C)	Dissolved Oxygen (mg/L)	Conductivity (umhos/cm)	pH
3/11/2010 8:59	32	0.9	13.02	264	7.8
4/5/2010 16:05		11.9	10.29	355	
4/20/2010 15:12	>100	16.6	9.85	3.43	8.1
4/29/2010 11:57	>120	11.4	10.31	395	8.7
5/5/2010 15:28	>100	11.4	11.27	467	8.3
5/10/2010 10:17		8.6	11.45	367	8.6
5/13/2010 10:00	55	8.6	10.98	318	8.3
5/20/2010 9:31	>100	12.9	9.77	412	8.3
5/24/2010 11:47	71	21	7.33	400	8.3
6/3/2010 14:07	>120	18.4	8.69	381	8
6/17/2010 15:35	88	22.1	8.03	372	8.1
7/1/2010 9:12	>100	17.2	8.48	365	7.3
7/14/2010 15:00	63	21.6	8.17	420	7.8
7/21/2010 8:50	>120	18.3	9.09	438	8.1
7/27/2010 9:25	>120	19.8	7.88	443	8
7/28/2010 11:30	82	21.6	7.79	415	8.1
8/13/2010 10:20	88	21.8	5.52	331	
8/23/2010 9:38	99	20.2	8.45	400	8.1
8/26/2010 7:52	>120	14.5	9.09	444	8.3
8/26/2010 14:53	95	19.7	8.51	423	7.8
9/8/2010 10:42	79	13.77	9.27	428	7.4
9/20/2010 10:56	>120	12	8.26	411	7.7
9/22/2010 15:00	>120	13.5	9.59	391	7.7
9/28/2010 8:53	>120	11.8	9.35	386	7.6
10/6/2010 8:52	111	9.8	10.26	386	8.2
10/8/2010 10:06		10.4	10.09	408	8.3
10/12/2010 8:40	>120	11.6	9.99	421	7.5
10/26/2010 9:40	75				
Exceeds Water Quality Standard					

Table 12: Brown's Creek Outlet 2010 Primary Water Quality Results

Date/Time	Transparency (cm)	Water Temperature (C)	Dissolved Oxygen (mg/L)	Conductivity (umhos/cm)	pH
1/19/2010 8:35		1.5	13.21	492	8.7
2/23/2010 8:08		1	13.66	491	8.8
3/11/2010 9:17	43	1.8	14.03	302	8.6
4/5/2010 16:23		11.4	10.48	395	
4/20/2010 15:45	>100	15.6	10.23	379	8.5
4/29/2010 12:20	>120	11.3	10.39	437	9.1
5/5/2010 16:02	>100	11.1	11.72	512	8.9
5/10/2010 10:09		8.7	11.67	417	8.5
5/20/2010 10:00	>100	12.9	9.95	457	8.4
5/24/2010 12:28	80	19.2	7.49	436	8.5
6/3/2010 14:27	110	16.3	9.16	414	8.1
6/17/2010 15:59	>120	19.5	8.58	410	8.3
7/1/2010 9:40	>100	16.1	8.94	410	8.1
7/14/2010 15:30	12	18.6	8.18	422	8.1
7/21/2010 9:17	>120	16.1	10.08	473	8.5
7/27/2010 10:02	>120	17.2	8.85	477	7.9
7/28/2010 11:18	110	18.5	8.15	456	7.8
8/13/2010 10:39	94	20.6	6.27	360	
8/23/2010 10:19	>120	18.1	9.93	429	8.6
8/26/2010 10:19	>100	13.9	9.44		8.3
8/26/2010 15:12	>120	16.7	9.1	470	8.1
9/8/2010 11:22	>120	12.8	9.68	472	7.9
9/20/2010 11:21	>120	11.6	8.53	458	7.8
9/22/2010 15:19	>120	13.2	9.72	435	7.8
9/28/2010 9:09	>120	11.7	10.01	454	7.7
10/6/2010 9:28	>120	9.8	10.57	430	8
10/8/2010 10:36		10.5	10.58	461	8.2
10/12/2010 8:51	>120	10.9	10.08	466	7.8
10/26/2010 9:07	76				
11/29/2010 9:44	>120	3.1	13.7	479	8.1

Exceeds Water Quality Standard

Table 13: Brown's Creek Diversion Structure Drainage 2010 Primary Water Quality Results

Date/Time	Transparency (cm)	Water Temperature (C)	Dissolved Oxygen (mg/L)	Conductivity (umhos/cm)	pH
3/11/2010 8:29	46	0.7	12.17	355	7.9
4/29/2010 11:27	>120	10	10.24	496	8.3
5/10/2010 10:48		8.9	11.46	492	8.2
5/13/2010 9:13	57	7.8	9.79	354	7.9
5/24/2010 11:24	58	22.5	6.15	413	7.9
7/21/2010 8:08	>120	18.3	8.55	427	8.1
8/23/2010 14:20	>120	26.5	5.85	391	6.9
8/26/2010 9:17	>120	16.8	7.8	440	7.3
10/6/2010 9:13	>100	11.8	9.15	370	8.2

Exceeds Water Quality Standard

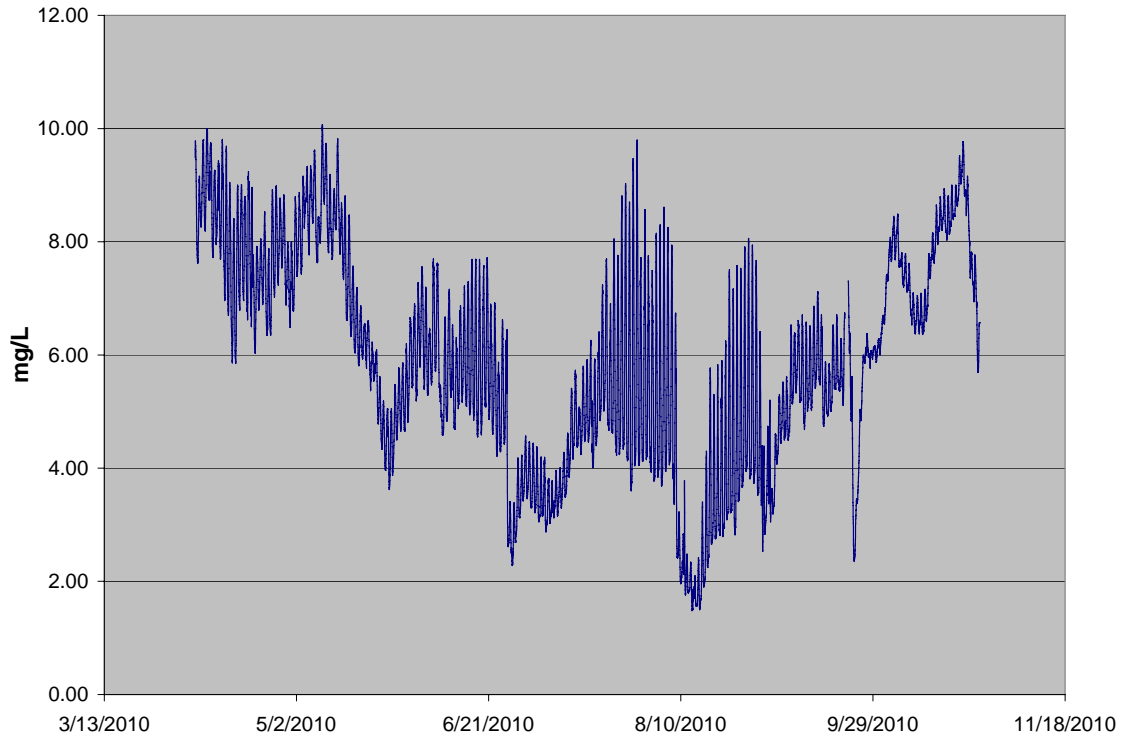


Figure 1: Brown's Creek at Hwy 15 2010 Dissolved Oxygen

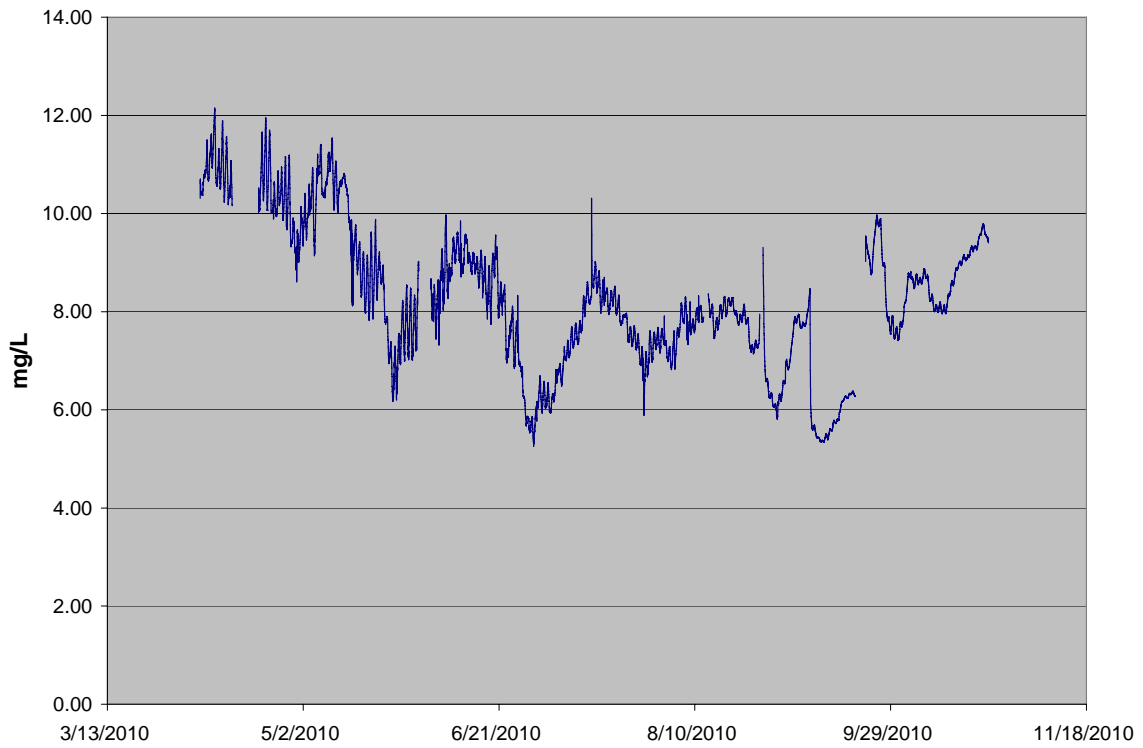


Figure 2: Brown's Creek at McKusick Road 2010 Dissolved Oxygen

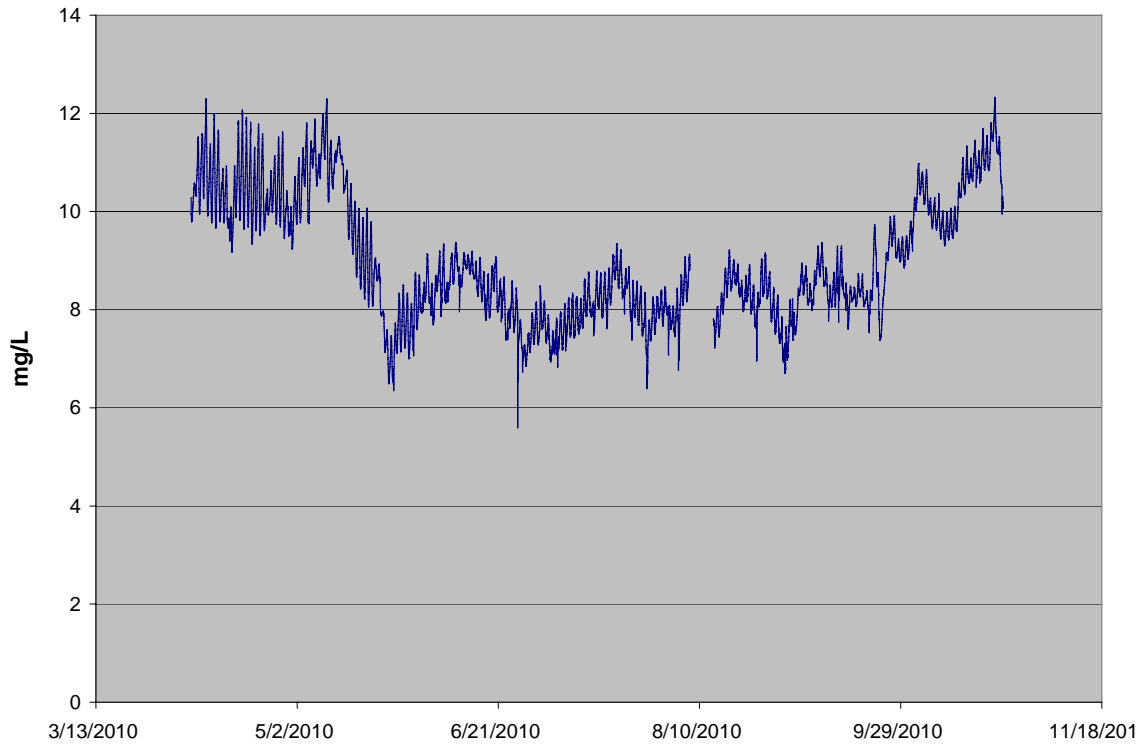


Figure 3: Brown's Creek at Stonebridge Trail 2010 Dissolved Oxygen

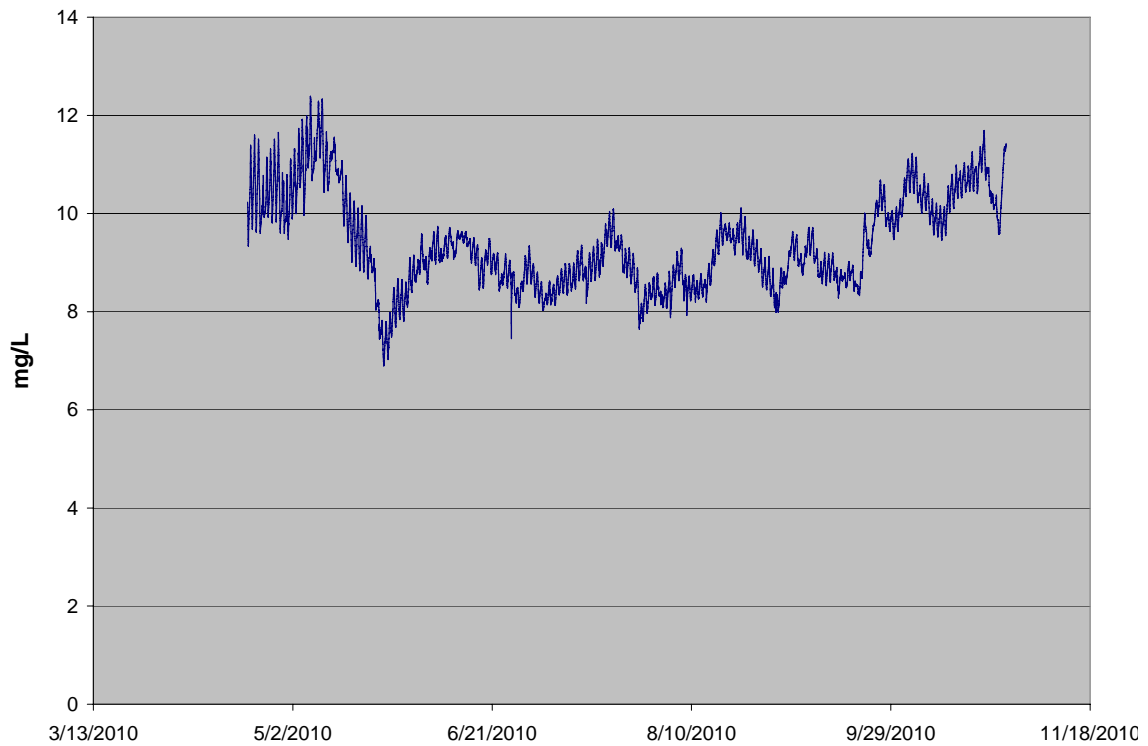


Figure 4: Brown's Creek Outlet 2010 Dissolved Oxygen