

Location	Date	Discharge (cfs)	Time of Sampling Discharge (cfs)	Daily Avg. Discharge (cfs)	pH (SU)	temperature (°C)	DO (mg/L)	E. Coli (org./100 ml)	Fecal Coliform (col/100 ml)	NH3-N (mg/L)	NO2-N (mg/L)	NO3-N (mg/L)	DOP (mg/L)	TP (mg/L)	TKN (mg/L)	TSS (mg/L)	TDS (mg/L)
#10	05/29/07	154.85	157	156	8.01	17.2	8.98	410	350	0.07	0.02 ND	2.27	0.01	0.05	0.37	2.0	
#10	05/30/07	218.26	152	150	7.76	16.5	9.25	320	210	0.08	0.02 ND	2.35	0.02	0.06	0.46	1.0	
#10	06/04/07	flow too high	247	235	8.00	17.9	8.63	4,100	960	0.025 ND	0.02 ND	2.07	0.04	0.09	0.84	21.0	
#10	06/11/07	107.87	136	134				400	590								
#10	06/13/07	116.69	126	127				460	530								
#10	06/18/07	87.57	121	120	6.92	18.9	8.83	470	570	0.025 ND	0.02 ND	2.29	0.04	0.08	0.18	5.0	
#10	06/21/07	138.84	149	148	6.64	18.8	8.21										300
#10	06/25/07	100.90	112	111				230	120								
#10	07/02/07	101.88	107	106	6.82	16.0	8.82	400	340	0.05	0.02 ND	2.25	0.02	0.05	0.16	2.5	
#10	07/09/07	89.64	103	102				240	280								
#10	07/16/07	94.63	100	100	7.57	19.7	8.07	270	240	0.06	0.02 ND	2.25	0.02	0.05	0.15	4.5	
#10	07/23/07	85.58	98	212				200	160								
#10	07/30/07	201.92	180	177				480	540								
#10	08/02/07	120.69	128	128				260	460								
#10	08/06/07	161.90	144	142	7.78	21.5	8.68	250	260	0.025 ND	0.02 ND	1.87	0.03	0.05	0.49	4.0	
#10	08/13/07	334.43	268	264				460	330								
#10	08/20/07	118.60	157	158	7.18	17.1	9.02	460	200	0.07	0.02 ND	1.97	0.04	0.07	0.42	3.5	
#10	08/27/07	flow too high	247	239				660	440								
#10	09/06/07	106.45	109	108	7.78	17.5	9.25										310
#10	09/10/07	113.71	98	97	7.39	20.4	8.34	110	180	0.025 ND	0.02 ND	2.95	0.005 ND	0.03	0.52	1.0	
#10	09/24/07	111.48	114	112	7.36	15.1	9.26	140	100	0.025 ND	0.02 ND	2.61	0.02	0.03	0.70	1.0	
#10	10/08/07	81.45	90	89	7.73	17.8	8.73	240	150	0.07	0.02 ND	3.24	0.03	0.06	0.64	0.25 ND	
#10	10/22/07	179.54	133	131	6.86	13.1	9.85	240	600	0.18	0.02 ND	2.37	0.02	0.05	0.59	2.5	
n		21	23	23	14	14	14	21	21	12	12	12	12	12	12	12	2
minimum		81	90	89	6.64	13.1	8.07	110	100	0.03	0.02	1.87	0.01	0.03	0.15	0.3	300
maximum		334	268	264	8.01	21.5	9.85	4,100	960	0.18	0.02	3.24	0.04	0.09	0.84	21.0	310
mean		135	142	145	7.40	17.7	8.85	346	307	0.06	0.02	2.37	0.02	0.06	0.46	4.0	305
std. dev.		60	50	49	0.46	2.2	0.47	833	214	0.04	0.00	0.39	0.01	0.02	0.22	5.6	7

Location	Date	Discharge (cfs)	pH (SU)	temperature (°C)	DO (mg/L)	E. Coli (org./100 ml)	Fecal Coliform (col/100 ml)	NH3-N (mg/L)	NO2-N (mg/L)	NO3-N (mg/L)	DOP (mg/L)	TP (mg/L)	TKN (mg/L)	TSS (mg/L)	TDS (mg/L)
#9	05/29/07	0.82	7.60	16.5	9.09	80,000	1,200	0.21	0.02 ND	1.30	0.14	0.19	0.46	1.0	
#9	05/30/07	0.47	7.40	15.4	9.92	32,000	1,700	0.08	0.02 ND	1.27	0.03	0.07	0.36	1.0	
#9	06/04/07	2.85	7.19	17.1	8.78	23,000	19,000	0.025 ND	0.02 ND	0.99	0.03	0.10	0.61	7.5	
#9	06/11/07	0.85				29,000	2,000								
#9	06/13/07	0.40				31,000	4,200								
#9	06/18/07	0.42	5.71	18.9	8.23	5,400	8,400	0.025 ND	0.02 ND	1.20	0.04	0.07	0.13	5.5	
#9	06/25/07	0.28				4,400	2,000								
#9	07/02/07	0.67	6.61	14.4	10.02	44,000	28,000	0.08	0.02 ND	1.14	0.04	0.07	0.09	5.0	
#9	07/09/07	0.41				2,000	8,600								
#9	07/16/07	0.19	7.62	19.8	8.17	1,000	2,100	0.06	0.02 ND	1.09	0.02	0.05	0.08	2.5	
#9	07/23/07	0.11				4,000	4,400								
#9	07/30/07	0.26				2,400	4,000								
#9	08/02/07	0.04				470	580								
#9	08/06/07	0.02	7.58	23.3	7.26	320	800	0.025 ND	0.02 ND	1.32	0.03	0.05	0.22	5.0	
#9	08/13/07	0.13				21,000	7,800								
#9	08/20/07	0.19	7.41	16.3	9.28	25,000	23,000	0.06	0.02 ND	1.23	0.04	0.07	0.37	0.25 ND	
#9	08/27/07	0.06				1,100	910								
#9	09/10/07	NO FLOW													
#9	09/24/07	NO FLOW													
#9	10/08/07	NO FLOW													
#9	10/22/07	NO FLOW													
n			8	8	8	17	17	8	8	8	8	8	8	8	8
minimum		16	5.71	14.4	7.26	320	580	0.03	0.02	0.99	0.02	0.05	0.08	0.3	
maximum		0.02	7.62	23.3	10.02	80,000	28,000	0.21	0.02	1.32	0.14	0.19	0.61	7.5	
mean		2.85	7.11	17.7	8.84	6,629	3,654	0.07	0.02	1.19	0.05	0.08	0.29	3.5	
std. dev.		0.46	0.67	2.9	0.94	21,393	8,375	0.06	0.00	0.11	0.04	0.05	0.19	2.6	

Location	Date	Discharge (cfs)	pH (SU)	temperature (°C)	DO (mg/L)	E. Coli (org./100 ml)	Fecal Coliform (col/100 ml)	NH3-N (mg/L)	NO2-N (mg/L)	NO3-N (mg/L)	DOP (mg/L)	TP (mg/L)	TKN (mg/L)	TSS (mg/L)	TDS (mg/L)
#7	05/29/07	4.74	8.15	16.1	9.21	1,600	780	0.06	0.02 ND	1.53	0.03	0.06	0.48	1.5	
#7	05/30/07	3.81	6.80	14.8	9.93	6,100	730	0.08	0.02 ND	1.55	0.03	0.07	0.35	3.5	
#7	06/04/07	7.23	7.24	15.9	9.15	6,400	3,200	0.025 ND	0.02 ND	1.16	0.03	0.09	0.57	8.5	
#7	06/11/07	3.03				5,900	180								
#7	06/13/07	2.54				7,700	5,800								
#7	06/18/07	2.68	7.25	17.0	7.95	14,000	9,900	0.025 ND	0.02 ND	1.50	0.04	0.07	0.42	4.5	
#7	06/25/07	2.19				6,600	8,400								
#7	07/02/07	3.12	6.67	14.0	9.52	670	9,000	0.025 ND	0.02 ND	1.48	0.04	0.07	0.025 ND	6.5	
#7	07/09/07	2.68				4,100	6,200								
#7	07/16/07	2.27	7.64	17.1	8.24	92,000	34,000	0.025 ND	0.02 ND	1.35	0.04	0.08	0.10	9.0	
#7	07/23/07	1.91				18,000	14,000								
#7	07/30/07	2.43				18,000	15,000								
#7	08/02/07	2.30				7,100	9,000								
#7	08/06/07	2.12	7.55	17.6	9.00	52,000	42,000	0.025 ND	0.02 ND	1.54	0.06	0.11	0.26	9.5	
#7	08/13/07	2.16				53,000	39,000								
#7	08/20/07	1.64	7.67	15.0	9.70	26,000	25,000	0.09	0.02 ND	1.42	0.05	0.09	0.71	6.5	
#7	08/27/07	1.81				15,000	13,000								
#7	09/10/07	1.09	7.58	17.8	9.05	5,600	4,000	0.025 ND	0.02 ND	1.65	0.04	0.08	0.59	3.0	
#7	09/24/07	1.05	7.47	12.6	10.31	4,700	1,100	0.025 ND	0.02 ND	1.72	0.04	0.06	0.59	8.0	
#7	10/08/07	1.49	7.71	16.2	9.29	6,400	4,500	0.15	0.02 ND	1.67	0.05	0.08	0.53	1.5	
#7	10/22/07	1.76	7.58	11.0	10.80	6,600	4,200	0.15	0.02 ND	1.67	0.05	0.06	0.55	4.5	

n	21		12	12	12	21	21	12	12	12	12	12	12	12	12
minimum	1.05		6.67	11.0	7.95	670	180	0.03	0.02	1.16	0.03	0.06	0.03	1.5	
maximum	7.23		8.15	17.8	10.80	92,000	42,000	0.15	0.02	1.72	0.06	0.11	0.71	9.5	
mean	2.57		7.44	15.4	9.35	9,221	6,039	0.06	0.02	1.52	0.04	0.08	0.43	5.5	
std. dev.	1.37		0.40	2.1	0.80	22,429	12,596	0.05	0.00	0.16	0.01	0.01	0.21	2.9	

Location	Date	Discharge (cfs)	pH (SU)	temperature (°C)	DO (mg/L)	E. Coli (org./100 ml)	Fecal Coliform (col/100 ml)	NH3-N (mg/L)	NO2-N (mg/L)	NO3-N (mg/L)	DOP (mg/L)	TP (mg/L)	TKN (mg/L)	TSS (mg/L)	TDS (mg/L)
#8	05/29/07	155.94	7.70	17.9	8.82	240	100	0.06	0.02 ND	2.24	0.02	0.04	0.24	2.5	
#8	05/30/07	170.00	7.19	17.1	9.19	240	170	0.06	0.02 ND	2.24	0.02	0.05	0.44	2.5	
#8	06/04/07	flow too high	7.89	18.0	8.35	3,300	1,400	0.025 ND	0.02 ND	2.06	0.03	0.11	0.68	17.0	
#8	06/11/07	117.61				480	1,000								
#8	06/13/07	121.38				460	550								
#8	06/18/07	117.81	6.94	20.2	9.01	430	400	0.025 ND	0.02 ND	2.12	0.02	0.04	0.19	3.5	
#8	06/25/07	101.56				1,700	580								
#8	07/02/07	106.35	6.93	16.1	8.00	5,100	750	0.025 ND	0.02 ND	1.93	0.02	0.05	0.12	3.5	
#8	07/09/07	89.83				480	560								
#8	07/16/07	100.08	7.86	20.3	7.13	1,000	1,100	0.11	0.02 ND	1.81	0.01	0.04	0.19	3.0	
#8	07/23/07	88.41				800	1,100								
#8	07/30/07	204.34				400	300								
#8	08/02/07	122.22				530	820								
#8	08/06/07	142.21	7.55	21.9	9.42	200	200	0.025 ND	0.02 ND	1.73	0.02	0.05	0.42	2.5	
#8	08/13/07	250.93				540	1,300								
#8	08/20/07	120.25	7.79	17.2	9.11	590	340	0.07	0.02 ND	1.87	0.03	0.06	0.41	2.0	
#8	08/27/07	flow too high				450	510								
#8	09/10/07	89.11	8.01	20.9	9.63	200	310	0.11	0.02 ND	2.49	0.005 ND	0.04	0.51	1.0	
#8	09/24/07	110.67	7.78	15.4	9.91	200	200	0.025 ND	0.02 ND	2.43	0.02	0.03	0.61	1.5	
#8	10/08/07	77.90	7.88	18.4	9.03	260	320	0.07	0.02 ND	2.92	0.02	0.05	0.65	0.25 ND	
#8	10/22/07	128.88	7.56	13.3	10.16	280	350	0.09	0.02 ND	2.39	0.02	0.05	0.54	1.0	

n	19		12	12	12	21	21	12	12	12	12	12	12	12	12
minimum	77.90		6.93	13.3	7.13	200	100	0.03	0.02	1.73	0.01	0.03	0.12	0.3	
maximum	250.93		8.01	21.9	10.16	5,100	1,400	0.11	0.02	2.92	0.03	0.11	0.68	17.0	
mean	127.13		7.58	18.1	8.98	519	468	0.06	0.02	2.19	0.02	0.05	0.42	3.4	
std. dev.	43.02		0.37	2.5	0.84	1,199	390	0.03	0.00	0.34	0.01	0.02	0.19	4.4	

Location	Date	Discharge (cfs)	pH (SU)	temperature (°C)	DO (mg/L)	E. Coli (org./100 ml)	Fecal Coliform (col/100 ml)	NH3-N (mg/L)	NO2-N (mg/L)	NO3-N (mg/L)	DOP (mg/L)	TP (mg/L)	TKN (mg/L)	TSS (mg/L)	TDS (mg/L)
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#5a	05/29/07	0.74	7.82	18.3	8.74	320	340	0.025	ND	0.02	ND	4.31	0.02	0.04	0.25	2.5
#5a	05/30/07	0.59	7.73	16.9	9.48	450	590	0.07	0.02	ND	4.37	0.02	0.04	1.85	1.5	
#5a	06/04/07	1.26	7.27	18.9	8.18	640	800	0.025	ND	0.02	ND	3.43	0.02	0.05	0.54	3.5
#5a	06/11/07	0.46				660	1,200									
#5a	06/13/07	0.28				230	270									
#5a	06/18/07	0.22	6.62	19.3	8.04	270	370	0.025	ND	0.02	ND	3.91	0.02	0.08	0.33	8.3
#5a	06/25/07	0.37				440	220									
#5a	07/02/07	0.15	7.00	15.0	8.16	*	3,100	0.025	ND	0.02	ND	3.96	0.02	0.05	0.20	4.5
#5a	07/09/07	0.24				420	400									
#5a	07/16/07	0.06	7.61	20.2	7.45	230	180	0.05	0.02	ND	3.35	0.02	0.05	0.12	5.0	
#5a	07/23/07	0.20				7,300	10,000									
#5a	07/30/07	0.17				2,500	160									
#5a	08/02/07	0.05				430	120									
#5a	08/06/07	0.02	7.21	22.0	8.02	700	1,100	0.025	ND	0.02	ND	1.46	0.02	0.04	0.61	6.0
#5a	08/13/07	0.15				210	2,400									
#5a	08/20/07	0.07	6.94	17.3	8.62	300	60	0.025	ND	0.02	ND	1.41	0.02	0.04	0.34	2.0
#5a	08/27/07	0.13				200	280									
#5a	09/10/07	0.05	6.60	22.0	7.39	410	800	0.025	ND	0.02	ND	1.70	0.03	0.04	0.49	22.0
#5a	09/24/07	0.08	6.60	14.8	9.39	3,100	1,100	0.025	ND	0.02	ND	1.70	0.02	0.03	0.47	1.0
#5a	10/08/07	0.00	7.09	19.2	7.33	210	160	0.025	ND	0.02	ND	1.17	0.04	0.07	0.47	0.25
#5a	10/22/07	0.16	6.31	12.6	10.44	350	1,300	0.07	0.02	ND	1.56	0.01	0.04	0.44	4.0	
n		21	12	12	12	20	21	12	12	12	12	12	12	12	12	12
minimum		0.00	6.31	12.6	7.33	200	60	0.03	0.02	1.17	0.01	0.03	0.12	0.3		
maximum		1.26	7.82	22.0	10.44	7,300	10,000	0.07	0.02	4.37	0.04	0.08	1.85	22.0		
mean		0.26	7.05	18.0	8.44	502	528	0.03	0.02	2.69	0.02	0.05	0.51	5.0		
std. dev.		0.30	0.49	2.9	0.95	1,674	2,164	0.02	0.00	1.29	0.01	0.01	0.45	5.8		

* = laboratory lost sample

Location	Date	Discharge (cfs)	pH (SU)	temperature (°C)	DO (mg/L)	E. Coli (org./100 ml)	Fecal Coliform (col/100 ml)	NH3-N (mg/L)	NO2-N (mg/L)	NO3-N (mg/L)	DOP (mg/L)	TP (mg/L)	TKN (mg/L)	TSS (mg/L)	TDS (mg/L)		
#6	05/29/07	165.26	7.78	18.2	8.92	90	100	0.06	0.02	ND	2.23	0.02	0.05	0.29	2.5		
#6	05/30/07	169.89	7.89	17.5	9.31	150	130	0.06	0.02	ND	2.23	0.02	0.05	0.56	2.5		
#6	06/04/07	flow too high	7.68	18.0	8.47	1,600	1,000	0.025	ND	0.02	ND	2.04	0.03	0.08	0.67	14.0	
#6	06/11/07	124.03				2,500	320										
#6	06/13/07	154.06				250	300										
#6	06/18/07	98.56	7.52	20.0		350	550	0.025	ND	0.02	ND	2.36	0.02	0.05	0.21	5.0	
#6	06/25/07	92.98				160	300										
#6	07/02/07	92.60	7.23	16.4	7.32	140	230	0.025	ND	0.02	ND	1.94	0.02	0.04	0.30	3.0	
#6	07/09/07	108.23				290	320										
#6	07/16/07	82.90	7.82	20.1	7.78	180	200	0.025	ND	0.02	ND	1.81	0.01	0.04	0.09	4.5	
#6	07/23/07	101.23				350	540										
#6	07/30/07	183.19				370	220										
#6	08/02/07	129.62				230	160										
#6	08/06/07	148.06	7.62	22.0	8.32	200	360	0.025	ND	0.02	ND	1.65	0.02	0.05	0.65	3.5	
#6	08/13/07	flow too high				270	620										
#6	08/20/07	147.20	7.52	17.1	9.17	400	600	0.025	ND	0.02	ND	1.83	0.03	0.05	0.39	2.5	
#6	08/27/07	flow too high				460	490										
#6	09/10/07	93.04	7.79	21.1	9.07	160	320	0.025	ND	0.02	ND	2.48	0.005	ND	0.04	0.48	0.5
#6	09/24/07	120.64	7.71	15.8	9.84	180	220	0.025	ND	0.02	ND	2.64	0.02	0.03	0.61	1.5	
#6	10/08/07	63.77	7.85	18.2	9.27	250	290	0.08	0.02	ND	2.72	0.02	0.03	0.49	0.25	ND	
#6	10/22/07	118.63	6.74	13.6	10.17	330	380	0.06	0.02	ND	2.36	0.02	0.04	0.40	0.25	ND	
n		18	12	12	11	21	21	12	12	12	12	12	12	12	12	12	
minimum		63.77	6.74	13.6	7.32	90	100	0.03	0.02	1.65	0.01	0.03	0.09	0.3			
maximum		183.19	7.89	22.0	10.17	2,500	1,000	0.08	0.02	2.72	0.03	0.08	0.67	14.0			
mean		121.88	7.59	18.2	8.88	286	315	0.04	0.02	2.19	0.02	0.05	0.43	3.3			
std. dev.		33.40	0.33	2.4	0.85	567	210	0.02	0.00	0.34	0.01	0.01	0.18	3.7			

Location	Date	Discharge (cfs)	pH (SU)	temperature (°C)	DO (mg/L)	E. Coli (org./100 ml)	Fecal Coliform (col/100 ml)	NH3-N (mg/L)	NO2-N (mg/L)	NO3-N (mg/L)	DOP (mg/L)	TP (mg/L)	TKN (mg/L)	TSS (mg/L)	TDS (mg/L)		
#11	05/29/07	3.45	7.65	14.4	8.76	30	48	0.025	ND	0.02	ND	2.84	0.005	ND	0.02	ND	0.5
#11	05/30/07	3.84	7.80	14.2	9.19	30	28	0.025	ND	0.02	ND	2.80	0.005	ND	0.02	0.36	1.0

#2 06/18/07 **NO FLOW**
 #2 06/25/07 **NO FLOW**
 #2 07/02/07 **NO FLOW**
 #2 07/09/07 **NO FLOW**
 #2 07/16/07 **NO FLOW**
 #2 07/23/07 **NO FLOW**
 #2 07/30/07 **NO FLOW**
 #2 08/02/07 **NO FLOW**
 #2 08/06/07 **NO FLOW**
 #2 08/13/07 **NO FLOW**
 #2 08/20/07 **NO FLOW**
 #2 08/27/07 **NO FLOW**
 #2 09/10/07 **NO FLOW**
 #2 09/24/07 **NO FLOW**
 #2 10/08/07 **NO FLOW**
 #2 10/22/07 **NO FLOW**

Location	Date	Discharge (cfs)	pH (SU)	temperature (°C)	DO (mg/L)	E. Coli (org./100 ml)	Fecal Coliform (col/100 ml)	NH3-N (mg/L)	NO2-N (mg/L)	NO3-N (mg/L)	DOP (mg/L)	TP (mg/L)	TKN (mg/L)	TSS (mg/L)	TDS (mg/L)
#1	05/29/07	126.88	8.10	19.5	9.12	190	80	0.06	0.02 ND	2.12	0.02	0.06	0.26	2.0	
#1	05/30/07	154.43	8.26	18.8	9.43	150	44	0.05	0.02 ND	2.16	0.03	0.06	0.43	3.0	
#1	06/04/07	208.10	7.77	18.4	8.57	3,300	1,400	0.025 ND	0.02 ND	1.71	0.03	0.08	0.51	8.5	
#1	06/11/07	87.30				120	300								
#1	06/13/07	85.58				230	330								
#1	06/18/07	93.70	6.94	21.5	9.04	150	280	0.025 ND	0.02 ND	2.26	0.02	0.05	0.35	3.0	
#1	06/21/07	115.87	7.52	19.9	8.41										320
#1	06/25/07	96.40				190	80								
#1	07/02/07	86.02	7.33	17.9	10.04	170	190	0.025 ND	0.02 ND	2.15	0.02	0.05	0.37	2.5	
#1	07/09/07	83.02				400	580								
#1	07/16/07	87.22	8.21	21.7	9.36	170	160	0.12	0.02 ND	2.01	0.02	0.05	0.12	3.0	
#1	07/23/07	88.70				1,700	1,000								
#1	07/30/07	167.16				360	260								
#1	08/02/07	118.76				190	80								
#1	08/06/07	132.51	7.89	22.6	8.68	280	180	0.025 ND	0.02 ND	1.58	0.02	0.07	0.60	2.5	
#1	08/13/07	292.64				240	260								
#1	08/20/07	111.58	7.80	17.5	9.18	250	90	0.025 ND	0.02 ND	1.73	0.03	0.06	0.43	2.0	
#1	08/27/07	242.29				350	230								
#1	09/06/07	86.11	7.95	18.5	9.87										310
#1	09/10/07	68.82	8.24	22.4	10.58	240	340	0.025 ND	0.02 ND	2.80	0.02	0.04	0.33	0.5	
#1	09/24/07	90.46	8.15	16.7	10.53	130	140	0.025 ND	0.02 ND	2.54	0.03	0.03	0.57	0.5	
#1	10/08/07	71.15	8.01	19.2	9.73	470	200	0.06	0.02 ND	2.91	0.02	0.06	0.39	0.25 ND	
#1	10/22/07	127.75	7.98	14.6	10.48	240	570	0.13	0.02 ND	2.17	0.02	0.04	0.41	0.25 ND	
n		21	14	14	14	21	21	12	12	12	12	12	12	12	2
minimum		68.82	6.94	14.6	8.41	120	44	0.03	0.02	1.58	0.02	0.03	0.12	0.3	310
maximum		292.64	8.26	22.6	10.58	3,300	1,400	0.13	0.02	2.91	0.03	0.08	0.60	8.5	320
mean		121.01	7.86	19.2	9.50	278	222	0.05	0.02	2.18	0.02	0.05	0.40	2.3	315
std. dev.		59.22	0.38	2.3	0.73	732	329	0.04	0.00	0.41	0.00	0.01	0.13	2.2	7

█ = violation of surface water quality standard (SWQS)
 ND = non-detect; 1/2 the detection limit provided