

Appendix C – Supplemental Tables

Table S1: Raw field and calculated seepage meter data from the Bullseye Site.

Sample ID	Field Parameters							Calculated						
	Date	TimeOn	TimeOff	MassOn	MassOff	CondOn	CondOff	Time Elapsed	Change in Mass	Change in Conductivity	Specific Conductance (ms/cm)	Percent Freshwater	Total Flux (cm/d)	Fresh Flux (cm/d)
1	07/13/11	8:55	10:51	1.90	4.55	38.32	21.4	1:56	2.65	-16.92	9.27	75.8%	11.18	8.47
2	07/13/11	8:46	10:48	2.20	4.85	38.32	19.82	2:02	2.65	-18.50	4.46	88.4%	10.63	9.40
3	07/13/11	8:44	10:44	1.95	3.25	38.32	25.6	2:00	1.30	-12.72	6.52	83.0%	5.29	4.39
4	07/13/11	8:48	10:49	2.25	3.60	38.32	33.47	2:01	1.35	-4.85	25.39	33.8%	5.43	1.83
5	07/13/11	8:54	10:47	2.10	3.60	38.32	25.91	1:53	1.50	-12.41	8.54	77.7%	6.48	5.04
6	07/13/11	8:59	11:00	1.95	3.85	38.32	30.16	2:01	1.90	-8.16	21.79	43.2%	7.65	3.30
7	07/13/11	8:43	10:43	2.05	2.90	38.32	32.46	2:00	0.85	-5.86	18.33	52.2%	3.45	1.80
8	07/13/11	9:05	10:48	2.10	3.35	38.32	28.05	1:43	1.25	-10.27	10.80	71.8%	5.92	4.25
9	07/13/11	8:53	16:43	2.05	2.25	38.32	36.99	7:50	0.20	-1.33	23.36	39.1%	0.05	0.02
10	07/13/11	8:41	10:51	2.20	4.90	38.32	21.29	2:10	2.70	-17.03	7.41	80.7%	10.16	8.20
11	07/13/11	8:46	10:47	2.10	2.65	38.32	31.84	2:01	0.55	-6.48	7.10	81.5%	2.21	1.80
12	07/13/11	8:44	10:44	2.25	2.85	38.32	30.85	2:00	0.60	-7.47	2.84	92.6%	2.44	2.25
13	07/13/11	9:15	10:48	2.10	2.25	38.32	37.84	1:33	0.15	-0.48	31.12	18.8%	0.78	0.15
14	07/13/11	8:54	10:53	1.95	2.85	38.32	22.94	1:59	0.90	-15.38	-10.38	100.0%	3.70	3.70
15	07/13/11	8:58	10:58	2.05	2.85	38.32	31.21	2:00	0.80	-7.11	12.99	66.1%	3.25	2.15
16	07/13/11	8:59	10:49	2.05	3.00	38.32	30.85	1:50	0.95	-7.47	14.73	61.6%	4.21	2.59
17	07/13/11	8:41	10:41	2.10	5.20	38.32	21.7	2:00	3.10	-16.62	10.44	72.8%	12.64	9.19
18	07/13/11	8:52	10:44	1.90	4.50	38.32	20.86	1:52	2.60	-17.46	8.10	78.9%	11.36	8.96
19	07/13/11	10:52	12:50	2.10	3.05	38.47	29.88	1:58	0.95	-8.59	10.89	71.6%	3.92	2.81
20	07/13/11	10:51	12:50	2.30	6.60	38.47	19.58	1:59	4.30	-18.89	9.48	75.3%	17.69	13.32
21	07/13/11	10:48	12:47	2.00	6.10	38.47	13.75	1:59	4.10	-24.72	1.69	95.6%	16.92	16.17
22	07/13/11	10:44	12:49	2.10	5.20	38.47	22.37	2:05	3.10	-16.10	11.46	70.1%	12.13	8.50
23	07/13/11	10:45	11:58	2.00	3.80	38.47	26.28	1:13	1.80	-12.19	12.74	66.8%	12.03	8.04
24	07/13/11	10:49	13:30	2.05	2.95	38.47	34.15	2:41	0.90	-4.32	24.31	36.6%	2.72	0.99
25	07/13/11	10:47	12:11	2.10	4.05	38.47	24.81	1:24	1.95	-13.66	10.10	73.7%	11.34	8.35
26	07/13/11	11:00	12:00	2.05	2.90	38.47	33.76	1:00	0.85	-4.71	22.40	41.6%	6.89	2.86
27	07/13/11	10:43	12:43	2.00	3.05	38.47	31.68	2:00	1.05	-6.79	18.75	51.1%	4.26	2.18
28	07/13/11	10:48	11:39	2.10	2.80	38.47	33.1	0:51	0.70	-5.37	16.99	55.7%	6.68	3.72
29	07/13/11	10:43	11:39	2.15	3.45	38.47	25.03	0:56	1.30	-13.44	2.80	92.7%	-0.36	-0.34
30	07/13/11	10:51	12:08	2.25	4.85	38.47	20.02	1:17	2.60	-18.45	4.05	89.4%	16.53	14.78
31	07/13/11	10:47	12:47	2.10	3.65	38.47	27.41	2:00	1.55	-11.06	12.43	67.6%	6.30	4.26
32	07/13/11	10:43	12:50	2.15	2.65	38.47	32.8	2:07	0.50	-5.67	8.42	78.0%	1.92	1.49
33	07/13/11	10:44	12:46	2.10	3.10	38.47	28.53	2:02	1.00	-9.94	7.66	80.0%	4.00	3.20
34	07/13/11	10:48	12:47	2.25	2.70	38.47	36.04	1:59	0.45	-2.43	23.89	37.7%	1.84	0.69
35	07/13/11	10:53	12:58	2.00	3.05	38.47	27.27	2:05	1.05	-11.20	5.94	84.5%	4.10	3.46
36	07/13/11	10:58	12:50	1.90	2.70	38.47	32.49	1:52	0.80	-5.98	18.29	52.3%	3.48	1.82
37	07/13/11	10:49	12:47	1.80	3.60	38.47	27.98	1:58	1.80	-10.49	17.49	54.4%	7.44	4.05
38	07/13/11	10:41	12:11	2.00	4.75	38.47	20.34	1:30	2.75	-18.13	7.15	81.3%	14.96	12.16
39	07/13/11	10:44	12:08	2.05	4.30	38.47	22.67	1:24	2.25	-15.80	8.27	78.4%	13.10	10.27

Sample ID	Date	TimeOn	TimeOff	MassOn	MassOff	CondOn	CondOff	Time Elapsed	Change in Mass	Change in Conductivity	Specific Conductance (ms/cm)	Percent Freshwater	Total Flux (cm/d)	Fresh Flux (cm/d)
40	07/13/11	12:50	13:27	2.10	2.40	38.21	34.66	0:37	0.30	-3.55	9.81	74.4%	3.94	2.93
41	07/13/11	12:50	13:26	2.20	4.10	38.21	23.7	0:36	1.90	-14.51	6.90	82.0%	25.79	21.15
42	07/13/11	12:43	14:06	2.05	2.85	38.21	32.76	1:23	0.80	-5.45	18.79	51.0%	4.69	2.39
43	07/13/11	12:50	13:29	2.00	2.35	38.21	34.4	0:39	0.35	-3.81	12.63	67.1%	4.36	2.93
44	07/13/11	12:46	13:30	2.25	2.90	38.21	29.76	0:44	0.65	-8.45	0.51	98.7%	7.20	7.10
45	07/13/11	12:47	14:06	2.00	2.45	38.21	35.7	1:19	0.45	-2.51	24.54	36.0%	2.77	1.00
46	07/13/11	12:47	13:28	1.85	2.60	38.21	31.21	0:41	0.75	-7.00	13.94	63.6%	8.91	5.67

Table S2: Raw field and laboratory nutrient data. Field Parameter values were measured at the time of sample collection. The “corrected TDN” value represents measured TDN for all samples except those with DIN concentrations exceeding measured TDN concentrations (11 of 105). In these samples, DIN concentration was reported as corrected TDN. TDN summary statistics (Table 1) were calculated from corrected TDN values. Field parameters including dissolved oxygen (DO), salinity (measured in practical salinity units; PSU), and oxidation-reduction potential (ORP) were measured with a multiparameter sonde inserted into a flow-through cell at the time of sampling.

Sample ID	Latitude	Longitude	Sample Date	Field Parameters										Laboratory-Measured			Calculated			Sample Location
				Depth (m)	Temperature (c°)	DO (%)	DO (mg/L)	Specific Conductance (ms/cm)	Salinity (PSU)	pH	ORP (mV)	Eh (mV)	NO3 (µM)	NH4 (µM)	Measured TDN (µM)	Corrected TDN (µM)	DIN (µM)	DON (µM)		
1	38.59203	-75.23862	8/8/2011	1.5	26.30	89.50	7.16	123.00	0.06	5.03	144.30	344.30	6.23	1.41	28.20	28.20	7.64	20.56	Distributed	
2	38.59532	-75.20701	8/8/2011	1.5	31.00	92.10	6.68	209.00	0.10	5.35	110.60	310.60	311.15	0.00	260.82	311.15	311.15	N/A	Distributed	
3	38.59905	-75.16955	8/8/2011	4.0	24.10	4848.90	402.63	3.03	1.58	6.04	-80.00	120.00	0.32	18.86	53.88	53.88	19.18	34.70	Distributed	
4	38.59230	-75.21110	8/8/2011	N/A	28.45	72.90	5.73	0.92	0.44	5.83	175.30	375.30	574.28	1.14	492.61	575.42	575.42	N/A	Distributed	
5	38.59692	-75.17210	8/8/2011	N/A	28.29	8.70	0.66	4.69	2.48	6.67	80.00	280.00	564.35	0.00	452.18	564.35	564.35	N/A	Distributed	
6	38.59079	-75.22071	8/8/2011	1.2	23.90	74.10	6.20	0.29	0.13	5.77	84.60	284.60	2.11	0.43	55.91	55.91	2.54	53.37	Distributed	
7	38.59621	-75.20502	8/8/2011	1.0	33.10	17.00	1.19	0.95	0.45	5.88	-102.80	97.20	0.00	5.46	18.65	18.65	5.46	13.19	Distributed	
8	38.59054	-75.22131	8/8/2011	1.8	22.73	40.20	3.46	0.21	0.10	4.71	246.70	446.70	0.27	1.59	13.01	13.01	1.86	11.15	Distributed	
9	38.59626	-75.20026	8/8/2011	1.8	27.61	4.40	0.33	0.39	0.19	5.94	138.30	338.30	138.96	0.00	144.26	144.26	138.96	5.30	Distributed	
10	38.61737	-75.12655	8/9/2011	1.5	32.15	6.60	0.66	0.48	0.23	4.98	206.00	406.00	392.54	11.20	281.38	403.74	403.74	N/A	Distributed	
11	38.61488	-75.15656	8/9/2011	1.4	27.20	85.50	6.68	0.79	0.33	6.28	11.10	211.10	85.75	4.16	114.60	114.60	89.91	24.69	Distributed	
12	38.58732	-75.14364	8/9/2011	1.3	30.50	57.30	4.22	2.06	1.04	5.78	44.90	244.90	70.09	1.35	110.59	110.59	71.44	39.15	Distributed	
13	38.58041	-75.15804	8/9/2011	1.3	29.60	16.90	1.25	2.15	1.09	5.67	-10.70	189.30	61.42	1.22	79.74	79.74	62.64	17.10	Distributed	
14	38.58923	-75.11245	10/13/2011	1.2	20.00	10.40	0.93	4.95	2.66	6.08	31.70	N/A	0.25	1.38	14.70	14.70	1.63	13.07	Distributed	
15	38.56197	-75.09143	10/13/2011	1.4	21.30	7.80	0.69	0.95	0.47	4.61	231.00	N/A	76.12	0.24	92.29	92.29	76.37	15.92	Distributed	
16	38.67818	-75.74883	10/6/2011	1.3	N/A	8.80	0.81	2.94	1.54	5.41	127.50	61.70	3.59	0.33	20.71	20.71	3.92	16.79	Distributed	
17	38.57893	-75.08368	10/13/2011	1.5	20.00	7.80	0.69	7.69	4.27	5.69	-60.30	N/A	0.30	12.00	51.78	51.78	12.31	39.47	Distributed	
18	38.59157	-75.12868	8/2/2011	4.9	25.10	2.90	0.24	1.50	0.75	6.16	-83.10	116.90	0.30	62.30	69.55	69.55	62.60	6.95	Paleovalley	
19	38.59157	-75.12868	8/2/2011	7.5	28.12	4.90	0.38	1.00	0.49	4.74	156.40	356.40	80.50	0.20	92.90	92.90	80.70	12.20	Paleovalley	
20	38.59157	-75.12868	8/3/2011	9.0	27.33	14.30	1.05	19.15	11.34	5.92	90.10	290.10	0.40	211.30	210.92	211.70	211.70	N/A	Paleovalley	
21	38.59157	-75.12868	8/3/2011	10.4	28.40	3.50	0.25	21.12	12.60	5.86	127.30	327.30	0.30	231.60	238.96	238.96	231.90	7.06	Paleovalley	
22	38.59157	-75.12868	8/3/2011	12.0	25.87	4.30	0.35	1.70	5.45	5.47	178.00	378.00	71.30	3.30	100.09	100.09	74.60	25.49	Paleovalley	
23	38.59157	-75.12868	8/3/2011	13.2	24.32	12.10	1.01	0.83	0.40	5.39	197.60	397.60	86.00	0.00	104.21	104.21	86.00	18.21	Paleovalley	
24	38.59157	-75.12868	8/3/2011	14.7	24.80	11.60	0.95	0.68	0.33	5.36	214.30	414.30	65.20	0.30	104.27	104.27	65.50	38.77	Paleovalley	
25	38.59178	-75.12865	8/2/2011	0.5	29.70	2.11	0.17	5.53	2.71	6.54	-280.00	-80.00	0.00	191.50	197.59	197.59	191.50	6.09	Paleovalley	
26	38.59178	-75.12865	8/2/2011	1.7	30.60	28.60	1.97	2.88	1.48	6.23	-128.60	71.40	0.00	57.30	73.62	73.62	57.30	16.32	Paleovalley	
27	38.59178	-75.12865	8/3/2011	5.0	27.60	5.40	0.39	18.30	10.78	N/A	-237.20	-37.20	3.08	162.50	244.73	244.73	165.58	79.15	Paleovalley	
28	38.59178	-75.12865	8/3/2011	8.2	25.22	8.50	0.69	1.03	0.51	5.36	32.40	232.40	72.30	0.30	90.85	90.85	72.60	18.25	Paleovalley	
29	38.59178	-75.12865	8/3/2011	10.2	26.30	14.30	1.13	1.46	0.65	5.48	47.40	247.40	67.90	0.20	71.54	71.54	68.10	3.44	Paleovalley	
30	38.59178	-75.12865	8/3/2011	11.9	26.47	14.60	1.17	1.16	0.57	5.47	127.30	327.30	53.20	1.40	69.90	69.90	54.60	15.30	Paleovalley	
31	38.59166	-75.12871	8/4/2011	3.0	24.21	3.50	0.28	9.08	5.07	6.13	-45.10	154.90	0.00	183.20	196.49	196.49	183.20	13.29	Paleovalley	
32	38.59166	-75.12871	8/4/2011	5.0	25.45	3.90	0.31	4.82	2.52	5.53	16.50	216.50	0.10	0.70	8.53	8.53	0.80	7.73	Paleovalley	
33	38.59166	-75.12871	8/4/2011	7.0	24.25	4.50	0.36	12.28	7.01	5.50	170.30	370.30	9.80	35.00	67.44	67.44	44.80	22.64	Paleovalley	
34	38.59166	-75.12871	8/4/2011	9.8	23.23	16.20	1.38	2.04	1.03	5.42	175.50	375.50	67.90	0.40	96.94	96.94	68.30	28.64	Paleovalley	
35	38.59166	-75.12871	8/4/2011	12.0	23.06	10.00	0.85	2.39	1.15	5.52	161.00	361.00	78.20	0.00	94.80	94.80	78.20	16.60	Paleovalley	
36	38.59197	-75.12869	8/4/2011	0.5	23.64	6.20	0.47	30.69	19.04	6.41	-77.80	122.20	0.00	68.53	157.58	157.58	68.53	89.05	Paleovalley	
37	38.59197	-75.12869	8/4/2011	3.4	24.21	5.60	0.48	1.26	0.62	5.34	94.70	294.70	62.76	0.05	57.39	62.81	62.81	N/A	Paleovalley	
38	38.59197	-75.12869	8/5/2011	8.9	27.58	2.80	0.21	3.38	1.75	6.29	-46.10	153.90	54.17	0.53	64.22	64.22	54.70	9.52	Paleovalley	
39	38.59197	-75.12869	8/5/2011	11.0	29.31	2.80	0.22	1.90	0.96	5.53	79.20	279.20	48.91	0.00	68.74	68.74	48.91	19.83	Paleovalley	
40	38.59197	-75.12869	8/5/2011	13.0	40.66	29.70	1.91	2.17	1.08	5.62	106.30	306.30	47.67	1.32	63.51	63.51	48.99	14.52	Paleovalley	
41	38.59137	-75.12737	8/6/2011	4.8	28.80	60.60	4.68	0.19	0.09	5.05	66.80	266.80	70.74	0.43	83.68	83.68	71.17	12.51	Interfluvial	
42	38.59137	-75.12737	8/6/2011	9.7	28.90	38.10	2.95	0.17	0.08	5.59	72.80	272.80	273.65	0.14	331.48	331.48	273.79	57.69	Interfluvial	
43	38.59137	-75.12737	8/6/2011	10.8	29.70	53.30	3.25	0.18	0.08	5.48	83.80	283.80	325.20	0.00	388.10	388.10	325.20	62.90	Interfluvial	
44	38.59137	-75.12737	8/6/2011	12.0	27.80	25.80	2.03	1.05	0.49	5.58	62.90	262.90	386.11	0.00	405.51	405.51	386.11	19.40	Interfluvial	
45	38.59137	-75.12737	8/6/2011	13.0	30.00	41.60	3.12	3.75	1.96	5.59	73.60	273.60	197.71	0.48	420.38	420.38	198.19	222.19	Interfluvial	
46	38.59137	-75.12737	8/7/2011	2.2	29.70	28.70	2.46	4.74	2.52	5.84	4.70	204.70	14.78	0.00	60.78	60.78	14.78	46.00	Interfluvial	
47	38.59169	-75.12733	8/6/2011	0.5	28.21	17.20	1.16	41.16	26.29	7.41	-149.80	50.20	0.00	58.17	72.97	72.97	58.17	14.80	Interfluvial	
48	38.59169	-75.12733	8/6/2011	1.4	27.20	6.90	0.46	44.59	28.74	7.07	-174.00	26.00	0.00	70.85	49.74	70.85	70.85	N/A	Interfluvial	
49	38.59169	-75.12733	8/6/2011	2.9	27.65	7.70	0.53	32.63	20.32	5.80	22.40	222.40	22.15	17.51	38.25	39.66	39.66	N/A	Interfluvial	
50	38.59169	-75.12733	8/6/2011	4.2	26.60	12.00	0.83	35.18	22.10	5.79	127.10	327.10	5.02	26.87	59.45	59.45	31.89	27.56	Interfluvial	
51	38.59130	-75.12695	8/7/2011	2.2	29.90	16.40	1.24	1.95	0.98	6.31	-113.70	86.30	0.00	115.13	134.19	134.19	115.13	19.06	Interfluvial	
52	38.59130	-75.12695	8/7/2011	3.7	34.60	13.60	0.94	2.80	1.41	6.19	-118.10	81.90	0.00	45.37	66.26	66.26	45.37	20.89	Interfluvial	
53	38.59130	-75.12695	8/7/2011	4.7	24.60	11.40	0.93	0.77	0.37	5.94	-31.10	168.90	0.15	28.40	38.25	38.25	28.55	9.70	Interfluvial	
54	38.59130	-75.12695	8/7/2011	6.7	29.00	61.50	4.88	0.29	0.12	5.25	126.30	326.30	0.00	37.03	49.86	49.86	37.03	12.83	Interfluvial	
55	38.59164	-75.12667	8/7/2011	0.5	29.88	24.90	1.79	15.83	9.19	5.83	152.80	352.80	123.97	11.50	186.46	186.46	135.47	50.99	Interfluvial	
56	38.59164	-75.12667	8/7/2011	1.5	28.57	24.20	1.87	2.04	1.03	5.67	191.50	391.50	164.12	0.00	228.57	228.57	164.12	64.45	Interfluvial	

Sample ID	Latitude	Longitude	Sample Date	Field Parameters										Laboratory-Measured			Calculated			Sample Location
				Depth (m)	Temperature (C°)	DO (%)	DO (mg/L)	Specific Conductance (ms/cm)	Salinity (PSU)	pH	ORP (mV)	Eh (mV)	NO3 (µM)	NH4 (µM)	Measured TDN (µM)	Corrected TDN (µM)	DIN (µM)	DON (µM)		
57	38.59164	-75.12667	8/7/2011	5.1	32.71	26.20	1.86	0.28	0.13	5.82	117.80	317.80	98.60	0.00	120.91	120.91	98.60	22.31	Interfluve	
58	38.59149	-75.12867	8/2/2011	4.6	17.50	5.10	0.48	3.73	1.98	6.17	-96.70	103.30	0.00	184.10	235.52	235.52	184.10	51.42	Paleovalley	
59	38.59150	-75.12870	8/2/2011	12.2	16.80	17.70	1.67	0.68	0.33	5.94	-32.40	167.60	83.92	0.00	86.75	86.75	83.92	2.83	Paleovalley	
60	38.59150	-75.12875	8/2/2011	21.3	16.49	8.70	0.80	16.98	10.05	5.81	200.60	400.60	48.19	28.50	68.89	76.69	76.69	N/A	Paleovalley	
61	38.59197	-75.12937	4/8/2013	2.1	24.70	18.00	1.44	11.57	6.59	6.20	-0.30	199.70	0.55	938.43	771.85	938.98	938.98	N/A	Paleovalley	
62	38.59197	-75.12937	4/8/2013	4.0	16.60	2.50	0.21	14.40	7.85	6.21	-268.80	-68.80	0.00	358.27	352.20	358.27	358.27	N/A	Paleovalley	
63	38.59197	-75.12937	4/8/2013	5.8	15.20	15.60	1.45	22.12	13.36	6.03	-229.70	-29.70	0.33	203.18	211.19	211.19	203.51	7.68	Paleovalley	
64	38.59197	-75.12937	4/8/2013	7.7	14.80	13.50	1.20	25.99	15.91	6.04	-260.50	-60.50	2.40	203.54	278.42	278.42	205.95	72.47	Paleovalley	
65	38.59197	-75.12937	4/8/2013	10.3	17.20	20.50	1.93	5.00	2.70	5.58	-47.80	152.20	0.29	22.11	33.52	33.52	22.40	11.12	Paleovalley	
66	38.59191	-75.12920	4/8/2013	2.0	17.10	8.00	0.73	12.71	7.33	6.02	-252.00	-52.00	0.19	135.44	255.78	255.78	135.63	120.15	Paleovalley	
67	38.59191	-75.12920	4/8/2013	4.0	18.00	16.30	1.00	17.21	10.24	6.15	-270.00	-70.00	0.81	184.76	251.68	251.68	185.57	66.11	Paleovalley	
68	38.59191	-75.12920	4/8/2013	6.0	20.10	17.80	1.59	4.71	2.46	5.43	-54.90	145.10	4.05	12.51	68.75	68.75	16.55	52.19	Paleovalley	
69	38.59191	-75.12920	4/8/2013	8.0	22.20	13.50	1.14	3.64	1.92	5.40	15.50	215.50	8.62	16.73	50.87	50.87	25.35	25.52	Paleovalley	
70	38.59191	-75.12920	4/8/2013	10.0	21.20	13.20	1.14	7.08	3.91	5.38	30.20	230.20	6.05	4.65	47.72	47.72	10.70	37.01	Paleovalley	
71	38.59191	-75.12920	4/8/2013	12.2	19.40	18.00	1.63	5.52	2.99	5.34	177.60	377.60	8.06	2.08	52.74	52.74	10.14	42.60	Paleovalley	
72	38.59191	-75.12920	4/8/2013	14.0	18.70	20.00	1.87	4.83	2.60	5.21	N/A	N/A	0.27	0.61	11.10	11.10	0.89	10.21	Paleovalley	
73	38.59236	-75.12888	4/9/2013	1.5	19.60	12.20	1.09	5.38	2.91	5.45	-85.30	114.70	0.20	16.44	20.33	20.33	16.64	3.69	Paleovalley	
74	38.59236	-75.12888	4/10/2013	1.5	23.70	14.20	1.13	6.78	3.72	5.49	-66.20	133.80	0.21	9.08	29.33	29.33	9.28	20.05	Paleovalley	
75	38.59236	-75.12888	4/9/2013	2.4	18.50	13.60	1.25	6.86	3.78	5.78	-148.60	51.40	0.01	27.05	57.60	57.60	27.06	30.53	Paleovalley	
76	38.59236	-75.12888	4/10/2013	2.4	15.60	13.90	1.30	6.21	3.40	6.19	-152.70	47.30	0.44	43.59	55.73	55.73	44.03	11.70	Paleovalley	
77	38.59236	-75.12888	4/10/2013	4.4	16.80	9.80	0.94	4.40	2.35	5.24	22.70	222.70	0.17	0.08	5.02	5.02	0.25	4.77	Paleovalley	
78	38.59236	-75.12888	4/10/2013	6.4	18.70	12.80	1.14	6.79	3.74	5.29	81.30	281.30	0.41	7.22	22.13	22.13	7.63	14.50	Paleovalley	
79	38.59236	-75.12888	4/10/2013	8.4	19.10	13.30	1.16	6.27	3.41	5.29	157.00	357.00	0.33	2.09	10.06	10.06	2.42	7.63	Paleovalley	
80	38.59236	-75.12888	4/10/2013	10.4	20.40	11.00	0.96	6.11	3.34	5.39	142.00	342.00	0.46	12.15	18.64	18.64	12.61	6.03	Paleovalley	
81	38.59173	-75.12910	4/10/2013	0.5	30.80	56.70	4.19	17.14	10.01	6.04	16.00	216.00	6.20	0.91	214.17	214.17	7.11	207.05	Paleovalley	
82	38.59173	-75.12910	4/10/2013	2.0	24.90	6.90	0.54	18.97	11.24	6.52	-314.70	-114.70	0.46	850.34	1169.03	1169.03	850.80	318.23	Paleovalley	
83	38.59173	-75.12910	4/10/2013	7.5	21.70	12.60	1.01	23.30	14.08	6.22	-274.10	-74.10	0.50	274.65	289.95	289.95	275.15	14.80	Paleovalley	
84	38.59173	-75.12910	4/10/2013	10.0	24.20	18.00	1.49	3.54	1.85	5.68	30.20	230.20	30.35	0.08	69.55	69.55	30.43	39.12	Paleovalley	
85	38.59173	-75.12910	4/10/2013	12.0	17.40	21.70	2.05	2.62	1.36	5.52	103.70	303.70	30.25	1.36	43.30	43.30	31.61	11.69	Paleovalley	
86	38.59173	-75.12910	4/11/2013	14.0	15.30	17.20	1.72	1.76	0.90	5.47	126.40	326.40	52.83	2.07	53.72	54.90	54.90	N/A	Paleovalley	
87	38.59262	-75.12886	4/10/2013	1.4	21.60	6.50	0.56	3.64	1.86	5.50	19.50	219.50	3.49	4.38	12.14	12.14	7.86	4.28	Paleovalley	
88	38.59131	-75.12675	4/10/2013	1.9	31.40	5.00	0.35	6.70	3.64	6.41	-66.20	133.80	1.60	498.17	753.09	753.09	499.77	253.32	Interfluve	
89	38.59131	-75.12675	4/10/2013	3.7	19.30	11.60	0.94	2.38	1.23	6.72	-130.60	69.40	0.24	135.20	173.06	173.06	135.44	37.63	Interfluve	
90	38.59131	-75.12675	4/11/2013	5.5	21.10	N/A	N/A	2.66	1.38	6.01	-18.90	181.10	0.32	46.64	92.38	92.38	46.96	45.42	Interfluve	
91	38.59131	-75.12675	4/11/2013	7.5	21.70	7.30	0.62	2.44	1.26	5.59	37.20	237.20	175.87	0.00	213.22	213.22	175.87	37.36	Interfluve	
92	38.59131	-75.12675	4/11/2013	9.3	18.70	39.90	3.60	4.08	2.17	5.93	19.20	219.20	749.86	0.00	684.22	749.86	749.86	N/A	Interfluve	
93	38.59131	-75.12675	4/11/2013	11.0	15.80	21.30	2.12	2.70	1.41	5.76	42.10	242.10	616.56	0.00	610.28	616.56	616.56	N/A	Interfluve	
94	38.59163	-75.12689	4/11/2013	0.6	17.30	29.90	2.81	5.69	3.10	5.55	191.90	391.90	395.32	0.00	465.77	465.77	395.32	70.45	Interfluve	
95	38.59163	-75.12689	4/11/2013	1.0	19.00	34.30	3.11	0.50	0.24	5.58	185.40	385.40	515.30	0.00	477.68	515.30	515.30	N/A	Interfluve	
96	38.59163	-75.12689	4/11/2013	1.5	17.60	53.60	5.03	2.68	1.39	5.74	195.00	395.00	401.67	0.00	450.83	450.83	401.67	49.16	Interfluve	
97	38.59163	-75.12689	4/11/2013	2.0	17.70	40.50	3.88	0.80	0.39	5.68	167.00	367.00	404.69	0.00	406.07	406.07	404.69	1.37	Interfluve	
98	38.59163	-75.12689	4/11/2013	3.0	17.40	37.90	3.61	1.64	0.83	5.52	175.20	375.20	379.61	0.26	367.98	379.87	379.87	N/A	Interfluve	
99	38.59163	-75.12689	4/11/2013	4.5	15.40	40.70	4.01	0.92	0.45	5.43	197.20	397.20	382.80	1.04	385.96	385.96	383.84	2.12	Interfluve	
100	38.59163	-75.12672	4/11/2013	0.5	18.70	34.00	3.30	8.65	4.79	5.82	182.50	382.50	91.78	0.00	333.96	333.96	91.78	242.18	Interfluve	
101	38.59163	-75.12672	4/11/2013	1.5	16.20	49.50	4.83	0.67	0.33	5.46	193.70	393.70	300.54	0.00	306.50	306.50	300.54	5.97	Interfluve	
102	38.59163	-75.12672	4/11/2013	2.0	17.80	37.00	3.59	1.13	0.57	5.58	179.20	379.20	340.84	0.00	322.72	340.84	340.84	N/A	Interfluve	
103	38.59163	-75.12672	4/11/2013	3.0	17.20	42.00	4.10	0.28	0.13	5.51	171.20	371.20	154.79	0.00	184.05	184.05	154.79	29.26	Interfluve	
104	38.59163	-75.12672	4/11/2013	4.5	16.90	33.30	3.12	0.21	0.10	5.63	181.90	381.90	152.88	0.00	160.51	160.51	152.88	7.63	Interfluve	