Table D-1. Invertebrate Taxonomic Results by Multiplate Sampler.

	Number of Organisms																							
	MIT001			**MIT002**		**MIT003**			**MIT004**			**MIT005**			**MIT006**			**MIT007**	**MIT008**	**MIT009**			**MIT010**	
Taxonomical Group	**Replicate 1**	**Replicate 2**	**Replicate 3**	**Replicate 1**	**Replicate 2**	**Replicate 1**	**Replicate 2**	**Replicate 3**	**Replicate 1**	**Replicate 2**	**Replicate 3**	**Replicate 1**	**Replicate 2**	**Replicate 3**	**Replicate 1**	**Replicate 2**	**Replicate 3**	**Replicate 1**	**Replicate 1**	**Replicate 1**	**Replicate 2**	**Replicate 3**	**Replicate 1**	**Replicate 2**
Ephemeroptera																								
Caenis sp.	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stenonema terminatum	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diptera-Chironomidae																								
Ablabesmyia sp.	0	0	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	2	0	0	0	0	1	0
Chironomidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Chironomini	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	12	0	0	0	0	1	0
Chironomus sp.	0	0	0	0	0	1	1	2	1	0	0	2	3	0	0	1	1	0	0	1	1	0	0	0
Cladotanytarsus sp.	0	1	0	0	0	0	0	0	0	0	0	2	2	1	0	0	0	0	0	0	0	0	0	0
Cricotopus bicinctus gr.	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cricotopus sp.	6	1	5	6	64	5	4	1	36	56	5	21	8	28	4	6	6	0	6	101	109	25	9	8
Cryptochironomus sp.	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	2	0	0	0	0	0	0	0	0
Demeijerea sp.	0	0	0	0	1	0	0	0	3	2	4	0	0	1	0	1	0	9	2	3	5	0	0	0
Dicrotendipes sp.	9	4	9	104	254	15	18	14	89	74	51	19	29	43	15	22	25	70	4	32	26	13	12	20
Glyptotendipes sp.	39	49	54	12	1	6	7	12	17	24	37	6	7	2	22	17	17	175	41	136	113	103	8	7
Nanocladius sp.	1	0	6	0	1	1	0	5	0	1	0	6	1	3	1	2	2	0	1	1	0	0	0	0
Orthocladius Complex	1	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	1	0	0	0	0	0
Parachironomus sp.	2	8	2	3	4	3	5	3	3	6	2	0	13	3	5	10	3	13	17	28	26	13	4	8
Parakiefferiella sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Paraphaenocladius sp.	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paratanytarsus sp.	4	3	6	4	2	15	5	2	33	11	28	1	3	7	8	5	8	26	5	3	4	2	3	3
Phaenopsectra sp.	1	0	0	0	0	0	0	2	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
Procladius sp.	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0	1	1	1	1	1
Psectrocladius sp.	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Stenochironomus sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Tanytarsus sp.	0	1	1	0	1	0	0	0	0	2	1	2	0	0	0	0	0	0	0	0	0	0	1	1
Thienemanniella sp.	2	2	2	0	0	0	1	0	0	2	0	0	0	3	0	0	0	0	0	0	0	0	0	0
Trichoptera																								
Hydroptila sp.	1	0	0	0	6	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	1	0	0	0
Hydroptilidae	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oecetis sp.	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orthotrichia sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0
Polycentropus sp.	0	1	0	0	1	3	0	1	3	0	1	0	0	1	0	2	0	3	1	0	0	1	0	0
Gastropoda																								
Gastropoda	0	0	0	0	0	0	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Bivalvia																								
Bivalvia	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0
Corbicula sp.	1	5	13	0	0	0	3	3	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0
Annelida																								
Aeolosomatidae	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aulodrilus pigueti	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aulodrilus sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Chaetogaster sp.	0	0	0	0	0	0	0	0	0	0	0	1	0	2	0	0	0	0	0	0	0	0	0	0
Dero digitata	0	0	5	189	187	2	9	38	127	216	32	5	7	2	2	3	8	378	354	456	735	324	303	90
Dero furcata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Lumbriculidae	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Manayunkia speciosa	0	1	0	0	0	1	1	1	0	0	1	0	0	0	0	0	0	0	2	0	0	0	4	3
Nais barbata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0
Nais pardalis	30	45	55	35	13	27	60	71	7	26	30	128	74	201	66	170	79	27	287	228	0	215	101	128
Nais variabilis	3	23	15	12	3	5	2	35	4	5	3	42	2	6	6	7	7	5	5	5	2	0	0	1
Pristina aequiseta	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pristina leidyi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Pristina osborni	0	5	1	0	0	0	2	0	0	0	0	1	0	2	0	0	0	0	0	0	0	0	0	0
Slavina appendiculata	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Stylaria lacustris	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	0	0	0
Vejdovskyella sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2
Acari																								
Acari	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Frontipoda sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Hygrobates sp.	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Lebertia sp.	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Limnesiidae	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Torrenticola sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0

Table D-1. Invertebrate Taxonomic Results by Multiplate Sampler.

	Number of Organisms																							
	MIT001			**MIT002**		**MIT003**			**MIT004**			**MIT005**			**MIT006**			**MIT007**	**MIT008**	**MIT009**			**MIT010**	
Taxonomical Group	**Replicate 1**	**Replicate 2**	**Replicate 3**	**Replicate 1**	**Replicate 2**	**Replicate 1**	**Replicate 2**	**Replicate 3**	**Replicate 1**	**Replicate 2**	**Replicate 3**	**Replicate 1**	**Replicate 2**	**Replicate 3**	**Replicate 1**	**Replicate 2**	**Replicate 3**	**Replicate 1**	**Replicate 1**	**Replicate 1**	**Replicate 2**	**Replicate 3**	**Replicate 1**	**Replicate 2**
Crustacea																								
Anisogammarus sp.	9	4	18	0	0	0	0	0	6	8	6	3	3	6	1	3	1	0	0	2	2	1	2	1
Corophium spinicorne	235	179	355	2	1	7	15	9	14	17	0	5	25	5	68	85	77	7	22	2	0	4	0	12
Ostracoda	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Organisms																								
Hydra sp.	0	0	0	0	0	55	8	333	0	0	0	9	4	44	0	8	0	0	0	0	0	0	0	0
Nematoda	2	2	2	0	0	1	0	0	0	0	0	0	0	0	0	2	0	1	2	0	0	0	1	1
Prostoma sp.	0	2	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Turbellaria	0	1	6	0	0	4	0	4	0	6	0	1	5	0	1	3	0	3	1	0	2	0	12	10

Table D-2. Invertebrate Metrics by Multiplate Sampler

Metrics	MIT001			MIT002		MIT003			MIT004		
	Replicate 1	**Replicate 2**	**Replicate 3**	**Replicate 1**	**Replicate 2**	**Replicate 1**	**Replicate 2**	**Replicate 3**	**Replicate 1**	**Replicate 2**	**Replicate 3**
Abundance Measures											
Corrected Abundance	347.00	341.00	575.00	367.00	542.00	154.00	147.00	538.00	344.00	461.00	202.00
EPT Abundance	2.00	4.00	1.00	0.00	7.00	4.00	0.00	1.00	3.00	2.00	1.00
Dominance Measures											
1st Dominant Taxon	*Corophium spinicorne*	Corophium spinicorne	Corophium spinicorne	Dero digitata	Dicrotendipes sp.	Hydra sp.	Nais pardalis	Hydra sp.	Dero digitata	Dero digitata	Dicrotendipes sp.
1st Dominant Abundance	235.00	179.00	355.00	189.00	254.00	55.00	60.00	333.00	127.00	216.00	51.00
2nd Dominant Taxon	*Glyptotendipes sp.*	Glyptotendipes sp.	Nais pardalis	Dicrotendipes sp.	Dero digitata	Nais pardalis	Dicrotendipes sp.	Nais pardalis	Dicrotendipes sp.	Dicrotendipes sp.	Glyptotendipes sp.
2nd Dominant Abundance	39.00	49.00	55.00	104.00	187.00	27.00	18.00	71.00	89.00	74.00	37.00
3rd Dominant Taxon	Nais pardalis	Nais pardalis	Glyptotendipes sp.	Nais pardalis	Cricotopus sp.	Paratanytarsus sp.	Corophium spinicorne	Dero digitata	Cricotopus sp.	Cricotopus sp.	Dero digitata
3rd Dominant Abundance	30.00	45.00	54.00	35.00	64.00	15.00	15.00	38.00	36.00	56.00	32.00
% 1 Dominant Taxon	67.72	52.49	61.74	51.50	46.86	35.71	40.82	61.90	36.92	46.85	25.25
% 2 Dominant Taxa	78.96	66.86	71.30	79.84	81.37	53.25	53.06	75.09	62.79	62.91	43.56
% 3 Dominant Taxa	87.61	80.06	80.70	89.37	93.17	62.99	63.27	82.16	73.26	75.05	59.41
Richness Measures											
Species Richness	17.00	23.00	28.00	9.00	17.00	19.00	20.00	19.00	14.00	19.00	14.00
EPT Richness	2.00	4.00	1.00	0.00	2.00	2.00	0.00	1.00	1.00	1.00	1.00
Ephemeroptera Richness	0.00	2.00	1.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
Plecoptera Richness	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Trichoptera Richness	2.00	2.00	0.00	0.00	2.00	1.00	0.00	1.00	1.00	1.00	1.00
Chironomidae Richness	9.00	8.00	11.00	5.00	9.00	7.00	8.00	9.00	8.00	11.00	8.00
Oligochaeta Richness	2.00	3.00	7.00	3.00	3.00	3.00	6.00	3.00	3.00	3.00	3.00
Non-Chiro. Non-Olig. Richness	6.00	12.00	10.00	1.00	5.00	9.00	6.00	7.00	3.00	5.00	3.00
Rhyacophila Richness	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Community Composition											
% Ephemeroptera	0.00	0.59	0.17	0.00	0.00	0.65	0.00	0.00	0.00	0.00	0.00
% Plecoptera	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
% Trichoptera	0.58	0.59	0.00	0.00	1.29	1.95	0.00	0.19	0.87	0.43	0.50
% EPT	0.58	1.17	0.17	0.00	1.29	2.60	0.00	0.19	0.87	0.43	0.50
% Coleoptera	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
% Diptera	18.73	20.23	15.30	35.15	60.70	29.87	29.25	7.81	53.20	39.05	63.86
% Oligochaeta	9.51	21.41	15.30	64.31	37.45	22.08	51.02	26.77	40.12	53.58	32.18
% Baetidae	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
% Brachycentridae	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
% Chironomidae	18.73	20.23	15.30	35.15	60.70	29.87	29.25	7.81	53.20	39.05	63.86
% Ephemerellidae	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
% Hydropsychidae	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
% Odonata	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
% Perlidae	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
% Pteronarcyidae	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
% Simuliidae	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table D-2. Invertebrate Metrics by Multiplate Sampler

Metrics	MIT001			MIT002		MIT003			MIT004		
	Replicate 1	Replicate 2	Replicate 3	Replicate 1	Replicate 2	Replicate 1	Replicate 2	Replicate 3	Replicate 1	Replicate 2	Replicate 3
Functional Group Composition											
% Filterers	0.29	2.05	2.43	0.00	0.18	1.30	2.72	0.74	0.00	0.43	0.99
% Gatherers	28.82	42.82	32.52	97.82	85.79	49.35	77.55	33.83	83.72	81.13	93.56
% Predators	0.86	1.76	2.09	0.00	0.74	41.56	6.12	63.20	0.87	1.52	0.50
% Scrapers	0.29	0.29	0.17	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.50
% Shredders	1.73	0.29	1.04	1.63	11.81	3.25	2.72	0.19	10.47	12.15	2.48
% Piercer-Herbivores	0.29	0.29	0.00	0.00	1.11	0.00	0.00	0.00	0.00	0.43	0.00
% Unclassified	67.72	52.49	61.74	0.54	0.37	4.55	10.88	1.67	4.94	4.34	1.98
Filterer Richness	1.00	3.00	2.00	0.00	1.00	2.00	2.00	2.00	0.00	1.00	2.00
Gatherer Richness	10.00	12.00	16.00	7.00	8.00	10.00	13.00	9.00	10.00	11.00	8.00
Predator Richness	2.00	4.00	6.00	0.00	4.00	5.00	2.00	5.00	1.00	2.00	1.00
Scraper Richness	1.00	1.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00
Shredder Richness	1.00	1.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Piercer-Herbivore Richness	1.00	1.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00
Unclassified	1.00	1.00	1.00	1.00	2.00	1.00	2.00	1.00	2.00	3.00	1.00
Diversity/Evenness Measures											
Shannon-Weaver H' (log 10)	0.55	0.73	0.69	0.58	0.57	0.93	0.93	0.62	0.79	0.79	0.87
Shannon-Weaver H' (log 2)	1.82	2.43	2.30	1.92	1.88	3.10	3.10	2.07	2.62	2.61	2.88
Shannon-Weaver H' (log e)	1.26	1.69	1.60	1.33	1.30	2.15	2.15	1.44	1.82	1.81	1.99
Margalef's Richness	2.74	3.77	4.25	1.35	2.54	3.57	3.81	2.86	2.23	2.93	2.45
Pielou's J'	0.45	0.54	0.48	0.61	0.46	0.73	0.72	0.49	0.69	0.62	0.76
Simpson's Heterogeneity	0.52	0.68	0.60	0.64	0.65	0.82	0.80	0.59	0.77	0.73	0.84
Biotic Indices											
% Indiv. w/ HBI Value	31.99	45.75	35.65	99.46	99.45	93.51	86.39	97.40	95.06	95.66	97.52
Hilsenhoff Biotic Index	7.46	8.13	7.37	9.08	8.55	6.55	7.95	6.30	8.43	8.69	7.92
% Indiv. w/ MTI Value	8.36	7.62	7.30	31.88	61.62	67.53	29.25	68.40	47.97	34.92	44.06
Metals Tolerance Index	5.10	3.85	4.45	5.08	5.69	3.48	4.40	3.13	5.18	6.04	4.18
% Indiv. w/ FSBI Value	0.29	0.00	0.00	0.00	1.11	0.00	0.00	0.00	0.00	0.43	0.00
Fine Sediment Biotic Index	5.00	-99.00	-99.00	-99.00	5.00	-99.00	-99.00	-99.00	-99.00	5.00	-99.00
FSBI - average	0.29	-99.00	-99.00	-99.00	0.29	-99.00	-99.00	-99.00	-99.00	0.26	-99.00
FSBI - weighted average	5.00	-99.00	-99.00	-99.00	5.00	-99.00	-99.00	-99.00	-99.00	5.00	-99.00
% Indiv. w/ TPM Value	2.88	1.17	1.74	1.63	13.10	3.25	3.40	0.19	10.47	13.45	2.97
Temp. Pref. Metric - average	1.18	0.61	0.86	0.56	0.53	0.26	0.60	0.26	0.36	0.84	0.50
TPM - weighted average	5.20	5.25	5.10	5.00	4.70	5.00	5.40	5.00	5.00	4.87	4.50
Karr BIBI Metrics											
Long-Lived Taxa Richness	1.00	1.00	1.00	0.00	0.00	1.00	1.00	1.00	0.00	0.00	0.00
Clinger Richness	4.00	6.00	4.00	2.00	5.00	3.00	2.00	3.00	3.00	4.00	4.00
% Clingers	13.54	15.84	10.61	4.90	13.47	9.09	7.48	2.60	16.28	18.22	21.78
Intolerant Taxa Richness	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
% Tolerant Individuals	30.63	48.72	40.98	64.66	37.85	23.61	59.84	27.48	42.20	56.01	32.99
% Tolerant Taxa	35.29	34.78	42.86	66.67	47.06	36.84	55.00	42.11	57.14	42.11	42.86
Coleoptera Richness	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table D-2. Invertebrate Metrics by Multiplatte Sampler

Metrics	MIT005			MIT006			MIT007	MIT008	MIT009			MIT010	
	Replicate 1	**Replicate 2**	**Replicate 3**	**Replicate 1**	**Replicate 2**	**Replicate 3**	**Replicate 1**	**Replicate 1**	**Replicate 1**	**Replicate 2**	**Replicate 3**	**Replicate 1**	**Replicate 2**
Abundance Measures													
Corrected Abundance	256.00	191.00	367.00	200.00	354.00	237.00	736.00	753.00	1002.00	1034.00	702.00	464.00	302.00
EPT Abundance	0.00	0.00	3.00	0.00	2.00	0.00	5.00	1.00	0.00	1.00	1.00	0.00	0.00
Dominance Measures													
1st Dominant Taxon	Nais pardalis	Nais pardalis	Nais pardalis	Corophium spinicorne	Nais pardalis	Nais pardalis	Dero digitata	Dero digitata	Dero digitata	Dero digitata	Dero digitata	Dero digitata	Nais pardalis
1st Dominant Abundance	128.00	74.00	201.00	68.00	170.00	79.00	378.00	354.00	456.00	735.00	324.00	303.00	128.00
2nd Dominant Taxon	Nais variabilis	Dicrotendipes sp.	Hydra sp.	Nais pardalis	Corophium spinicorne	Corophium spinicorne	Glyptotendipes sp.	Nais pardalis	Nais pardalis	Glyptotendipes sp.	Nais pardalis	Nais pardalis	Dero digitata
2nd Dominant Abundance	42.00	29.00	44.00	66.00	85.00	77.00	175.00	287.00	228.00	113.00	215.00	101.00	90.00
3rd Dominant Taxon	Cricotopus sp.	Corophium spinicorne	Dicrotendipes sp.	Glyptotendipes sp.	Dicrotendipes sp.	Dicrotendipes sp.	Dicrotendipes sp.	Glyptotendipes sp.	Glyptotendipes sp.	Cricotopus sp.	Glyptotendipes sp.	Turbellaria	Dicrotendipes sp.
3rd Dominant Abundance	21.00	25.00	43.00	22.00	22.00	25.00	70.00	41.00	136.00	109.00	103.00	12.00	20.00
% 1 Dominant Taxon	50.00	38.74	54.77	34.00	48.02	33.33	51.36	47.01	45.51	71.08	46.15	65.30	42.38
% 2 Dominant Taxa	66.41	53.93	66.76	67.00	72.03	65.82	75.14	85.13	68.26	82.01	76.78	87.07	72.19
% 3 Dominant Taxa	74.61	67.02	78.47	78.00	78.25	76.37	84.65	90.57	81.84	92.55	91.45	89.66	78.81
Richness Measures													
Species Richness	19.00	18.00	22.00	13.00	23.00	15.00	17.00	18.00	16.00	15.00	11.00	16.00	20.00
EPT Richness	0.00	0.00	2.00	0.00	1.00	0.00	2.00	1.00	0.00	1.00	1.00	0.00	0.00
Ephemeroptera Richness	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Plecoptera Richness	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Trichoptera Richness	0.00	0.00	2.00	0.00	1.00	0.00	2.00	1.00	0.00	1.00	1.00	0.00	0.00
Chironomidae Richness	10.00	10.00	11.00	6.00	12.00	8.00	7.00	8.00	9.00	8.00	6.00	9.00	8.00
Oligochaeta Richness	5.00	3.00	5.00	3.00	3.00	3.00	5.00	5.00	5.00	4.00	2.00	2.00	5.00
Non-Chiro. Non-Olig. Richness	4.00	5.00	6.00	4.00	8.00	4.00	5.00	5.00	2.00	3.00	3.00	5.00	7.00
Rhyacophila Richness	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Community Composition													
% Ephemeroptera	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
% Plecoptera	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
% Trichoptera	0.00	0.00	0.82	0.00	0.56	0.00	0.68	0.13	0.00	0.10	0.14	0.00	0.00
% EPT	0.00	0.00	0.82	0.00	0.56	0.00	0.68	0.13	0.00	0.10	0.14	0.00	0.00
% Coleoptera	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
% Diptera	23.83	35.60	25.89	27.50	19.49	26.58	41.71	10.23	30.54	27.56	22.36	8.62	16.23
% Oligochaeta	69.14	43.46	58.04	37.00	50.85	39.66	56.11	86.06	69.06	71.95	76.78	87.07	74.17
% Baetidae	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
% Brachycentridae	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
% Chironomidae	23.83	35.60	25.89	27.50	19.49	26.58	41.71	10.23	30.54	27.56	22.36	8.62	16.23
% Ephemerellidae	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
% Hydropsychidae	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
% Odonata	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
% Perlidae	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
% Pteronarcyidae	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
% Simuliidae	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table D-2. Invertebrate Metrics by Multiplatte Sampler

Metrics	MIT005			MIT006			MIT007	MIT008	MIT009			MIT010	
	Replicate 1	Replicate 2	Replicate 3	Replicate 1	Replicate 2	Replicate 3	Replicate 1	Replicate 1	Replicate 1	Replicate 2	Replicate 3	Replicate 1	Replicate 2
Functional Group Composition													
% Filterers	0.78	1.57	0.00	0.00	0.28	0.42	0.00	0.27	0.00	0.00	0.00	1.29	1.32
% Gatherers	83.98	75.92	77.11	63.00	68.36	63.71	96.33	95.22	89.32	88.59	95.58	93.53	87.42
% Predators	4.69	5.24	12.81	1.00	5.37	0.84	1.22	0.53	0.10	0.29	0.28	3.23	4.64
% Scrapers	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
% Shredders	8.20	4.19	7.63	2.00	1.69	2.53	0.00	0.80	10.08	10.54	3.56	1.94	2.65
% Piercer-Herbivores	0.00	0.00	0.54	0.00	0.00	0.00	0.27	0.00	0.00	0.10	0.00	0.00	0.00
% Unclassified	1.95	13.09	1.91	34.00	24.29	32.49	2.17	3.19	0.50	0.48	0.57	0.00	3.97
Filterer Richness	1.00	1.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00	0.00	0.00	3.00	2.00
Gatherer Richness	11.00	12.00	14.00	9.00	12.00	10.00	10.00	11.00	12.00	10.00	7.00	8.00	11.00
Predator Richness	4.00	3.00	3.00	2.00	7.00	2.00	4.00	3.00	1.00	2.00	2.00	4.00	5.00
Scraper Richness	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Shredder Richness	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Piercer-Herbivore Richness	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	0.00
Unclassified	1.00	1.00	3.00	1.00	2.00	1.00	2.00	2.00	2.00	1.00	1.00	0.00	1.00
Diversity/Evenness Measures													
Shannon-Weaver H' (log 10)	0.77	0.91	0.73	0.75	0.76	0.78	0.66	0.57	0.67	0.45	0.58	0.51	0.76
Shannon-Weaver H' (log 2)	2.57	3.02	2.42	2.49	2.54	2.59	2.20	1.88	2.21	1.51	1.94	1.68	2.52
Shannon-Weaver H' (log e)	1.78	2.09	1.68	1.73	1.76	1.79	1.53	1.30	1.53	1.05	1.34	1.16	1.75
Margalef's Richness	3.25	3.24	3.56	2.26	3.75	2.56	2.42	2.57	2.17	2.02	1.53	2.44	3.33
Pielou's J'	0.61	0.72	0.54	0.67	0.56	0.66	0.54	0.45	0.55	0.39	0.56	0.42	0.58
Simpson's Heterogeneity	0.71	0.80	0.67	0.76	0.70	0.77	0.67	0.63	0.71	0.47	0.67	0.53	0.72
Biotic Indices													
% Indiv. w/ HBI Value	98.05	85.34	98.09	66.00	75.14	66.67	97.83	96.55	99.50	99.52	99.43	98.92	94.70
Hilsenhoff Biotic Index	7.98	7.90	7.42	7.93	7.83	8.02	8.95	8.99	8.86	9.36	8.92	9.17	8.44
% Indiv. w/ MTI Value	25.39	36.13	36.78	17.50	18.08	19.41	16.30	4.91	16.67	16.44	7.83	9.48	17.22
Metals Tolerance Index	5.68	4.84	4.90	4.57	4.48	4.87	4.05	4.62	7.19	7.32	6.40	5.16	5.06
% Indiv. w/ FSBI Value	0.00	0.00	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00
Fine Sediment Biotic Index	-99.00	-99.00	5.00	-99.00	-99.00	-99.00	-99.00	-99.00	-99.00	5.00	-99.00	-99.00	-99.00
FSBI - average	-99.00	-99.00	0.23	-99.00	-99.00	-99.00	-99.00	-99.00	-99.00	0.33	-99.00	-99.00	-99.00
FSBI - weighted average	-99.00	-99.00	5.00	-99.00	-99.00	-99.00	-99.00	-99.00	-99.00	5.00	-99.00	-99.00	-99.00
% Indiv. w/ TPM Value	8.98	4.19	9.81	2.00	1.98	2.53	0.00	0.93	10.08	10.64	3.56	2.16	2.98
Temp. Pref. Metric - average	0.37	0.28	0.91	0.38	0.43	0.33	-99.00	0.61	0.31	0.47	0.45	0.44	0.35
TPM - weighted average	4.74	5.00	5.08	5.00	5.00	5.00	-99.00	5.14	5.00	4.97	5.00	4.70	4.67
Karr BIBI Metrics													
Long-Lived Taxa Richness	0.00	1.00	0.00	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
Clinger Richness	4.00	3.00	5.00	3.00	3.00	2.00	3.00	3.00	2.00	3.00	3.00	3.00	3.00
% Clingers	12.11	8.90	9.26	13.50	7.06	9.70	24.46	6.37	23.65	21.57	18.38	3.88	5.30
Intolerant Taxa Richness	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
% Tolerant Individuals	70.12	50.92	58.61	56.06	67.67	59.49	56.94	89.13	69.41	72.30	77.22	88.02	77.97
% Tolerant Taxa	42.11	44.44	36.36	46.15	39.13	53.33	41.18	44.44	62.50	60.00	54.55	43.75	45.00
Coleoptera Richness	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table D-3. Daphnid Taxonomic Results by Multiplate Sampler.

	Number of Organisms																							
	MIT001			**MIT002**		**MIT003**			**MIT004**			**MIT005**			**MIT006**			**MIT007**	**MIT008**	**MIT009**			**MIT010**	
Taxonomical Group	**Replicate 1**	**Replicate 2**	**Replicate 3**	**Replicate 1**	**Replicate 2**	**Replicate 1**	**Replicate 2**	**Replicate 3**	**Replicate 1**	**Replicate 2**	**Replicate 3**	**Replicate 1**	**Replicate 2**	**Replicate 3**	**Replicate 1**	**Replicate 2**	**Replicate 3**	**Replicate 1**	**Replicate 1**	**Replicate 1**	**Replicate 2**	**Replicate 3**	**Replicate 1**	**Replicate 2**
Order *Cladocera*																								
Family *Sididae*																								
Sida crystallina	0	1	0	564	717	0	0	0	152	40	79	25	4	0	0	34	16	130	40	152	257	114	10	4
Family *Macrothricidae*																								
Ilyocryptus spinifer [a]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	1	0

[a] The taxonomist listed *I. acutifrons* as alternative species.