

APPENDIX B

**THREE RIVERS SECOND NATURE
RESULTS OF RAPID INVERTEBRATE BIOLOGICAL ASSESSMENT SAMPLING
PHASE 2
APRIL 2002**

**THREE RIVERS SECOND NATURE
RESULTS OF APRIL 2002 RAPID INVERTEBRATE
(10 MINUTE SAMPLING STATION)
BIOLOGICAL ASSESSMENTS**

	Shades Run	Squaw Run	Sandy Creek	Quigley Creek	Indian Creek	Powers Run
Phylum						
Class						
Order						
Suborder						
Family						
Genus						
Arthropoda						
Insecta						
Ephemeroptera						
Baetidae						
<i>Baetis</i> sp.						
Heptageniidae						
<i>Stenonema</i> sp.						
<i>Stenonema vicarium</i>						
<i>Epeorus</i> sp.						
<i>Stenacron</i> sp.			1			
Ephemerellidae						
<i>Eurylophella</i> sp.						
<i>Ephemerella</i> sp.						
Caenidae						
<i>Caenis</i> sp.						
Plecoptera						
Peltoperlidae						
<i>Peltoperla</i> sp.						
Perlodidae						
<i>Isoperla</i> sp.						1
Chloroperlidae						
<i>Alloperla</i> sp.		1				
Leuctridae						
<i>Leuctra</i> sp.						
Nemouridae						
<i>Amphinemura</i> sp.	1	1	1			1
Trichoptera						
Hydropsychidae						
<i>Cheumatopsyche</i> sp.		13				
<i>Diplectrona</i> sp.	23		21	7		19
<i>Hydropsyche</i> sp.		7	1			
<i>Hydropsyche morosa</i>		4				
Philopotamidae						
<i>Dolophilodes</i> sp.						
<i>Wormalidia</i> sp.	4					
Hydroptilidae						
<i>Hydroptila</i> sp.						
Uenoidae						
<i>Neophylax</i> sp.	49					
Rhyacophilidae						
<i>Rhyacophila</i> sp.			1			
Polycentropodidae						
<i>Neureclipsis</i> sp.						
<i>Polycentropus</i> sp.	1		2	1		2

**THREE RIVERS SECOND NATURE
RESULTS OF APRIL 2002 RAPID INVERTEBRATE
(10 MINUTE SAMPLING STATION)
BIOLOGICAL ASSESSMENTS**

	Shade Run	Squaw Run	Sandy Creek	Quigley Creek	Indian Creek	Powers Run
Phylum						
Class						
Order						
Suborder						
Family						
Genus						
Megaloptera						
Corydalidae						
<i>Nigronia</i> sp.						
Silidae						
<i>Sialis</i> sp.						1
Odonata						
Zygoptera						
Calopterygidae						
<i>Calopteryx</i> sp.						
Anisoptera						
Gomphidae						
<i>Ophogomphus</i> sp.						
<i>Lanthus</i> sp.						
Hemiptera						
Gerridae		P	P			P
Veliidae						P
Diptera		2				
Chironomidae	14	20	15	45	19	229
Simuliidae						
<i>Simulium</i> sp.		6				2
Empididae						
<i>Hemerodromia</i> sp.			1			
<i>Chelifera</i> sp.			1			
<i>Clinocera</i> sp.						
Ceratopogonidae						
Tipulidae			1			
<i>Tipula</i> sp.	1			2	6	
<i>Hexatoma</i> sp.						
<i>Antocha</i> sp.		1	1			1
Tabanidae						
<i>Chrysops</i> sp.						
<i>Tabanus</i> sp.						
Psychodidae						
<i>Psychoda</i> sp.						
<i>Pericoma</i> sp.						
Stratiomyidae						
<i>Nematelus</i> sp.						
Coleoptera		1				
Elmidae						
<i>Dubiraphia</i> sp.						
<i>Stenelmis</i> sp.		30				
<i>Optioservus</i> sp.		2				

**THREE RIVERS SECOND NATURE
RESULTS OF APRIL 2002 RAPID INVERTEBRATE
(10 MINUTE SAMPLING STATION)
BIOLOGICAL ASSESSMENTS**

	Shade Run	Squaw Run	Sandy Creek	Quigley Creek	Indian Creek	Powers Run
Phylum						
Class						
Order						
Suborder						
Family						
Genus						
Coleoptera (cont)						
Psephenidae						
<i>Psephenus</i> sp.		10				
<i>Ectopria</i> sp.	1		1			
Crustacea						
Amphipoda						
Gammaridae						
<i>Gammarus</i> sp.	1186	11	12	20	3	
Isopoda						
Asellidae						
<i>Caecidotea</i> sp.	43		6	7		
Decapoda						
Cambaridae	P					
<i>Orconectes obscurus</i>						1
<i>Cambarus Bartoni</i>		P				
Mollusca						
Bivalvia						
Sphaeriidae						
Corbiculidae						
Gastropoda						
Physidae			1	1	1	
Lymnaeidae						
Ancylidae						
Annelida						
Oligochaeta		1	4	2	1	
Tubificidae						
Hirudinea						
Nematoda						
Turbellaria						
Planaria			1			
Collembola				1		
Acariformes						
Hydrachnidae						
Total Number Taxa	10	15	17	9	5	9
Total Number of Organisms	1323	110	71	86	30	257
Total Number of EPT Taxa*	5	5	6	2	0	4
Total Number of EPT Organism	78	26	27	8	0	23
Percent ETP Organisms	5.9	23.64	38.03	9.3	0.0	8.95
Percent A & C Organisms**	1.06	19.09	19	47	66.67	89.11

**THREE RIVERS SECOND NATURE
RESULTS OF APRIL 2002 RAPID INVERTEBRATE
(10 MINUTE SAMPLING STATION)
BIOLOGICAL ASSESSMENTS**

	Plum Creek	Guys Run	Falling Springs Run	Deer Creek (Lower)	Little Deer Creek	Blacks Run
Phylum						
Class						
Order						
Suborder						
Family						
Genus						
Arthropoda						
Insecta						
Ephemeroptera						
Baetidae						
<i>Baetis</i> sp.		1				
Heptageniidae						
<i>Stenonema</i> sp.						
<i>Stenonema vicarium</i>						
<i>Epeorus</i> sp.		6				10
<i>Stenacron</i> sp.						
Ephemerellidae						
<i>Eurylophella</i> sp.						
<i>Ephemerella</i> sp.						
Caenidae						
<i>Caenis</i> sp.	1			2		
Siphonuridae						
<i>Ameletus</i> sp.						17
Plecoptera						
Peltoperlidae						
<i>Peltoperla</i> sp.		1				
Perlodidae						
<i>Isoperla</i> sp.		4				
Chloroperlidae						2
<i>Alloperla</i> sp.		19				
Leuctridae						
<i>Leuctra</i> sp.		86				
Nemouridae						
<i>Amphinemura</i> sp.	8	409			33	70
Trichoptera						
Hydropsychidae						
<i>Cheumatopsyche</i> sp.	126	2		11	7	
<i>Diplectrona</i> sp.	3	16		1	1	7
<i>Hydropsyche</i> sp.	3	6		2	8	
<i>Hydropsyche morosa</i>	67			20	7	
Philopotamidae						
<i>Dolophilodes</i> sp.						
<i>Wormalidia</i> sp.						
Hydroptilidae						
<i>Hydroptila</i> sp.						
Uenoidae						
<i>Neophylax</i> sp.						4
Rhyacophilidae						
<i>Rhyacophila</i> sp.						
Polycentropodidae						
<i>Neureclipsis</i> sp.						
<i>Polycentropus</i> sp.		3				

**THREE RIVERS SECOND NATURE
RESULTS OF APRIL, 2002 RAPID INVERTEBRATE
(10 MINUTE SAMPLING STATION)
BIOLOGICAL ASSESSMENTS**

	Plum Creek	Guys Run	Falling Springs Run	Deer Creek (Lower)	Little Deer Creek	Blacks Run
Phylum						
Class						
Order						
Suborder						
Family						
Genus						
Trichoptera (cont)						
Lepidostomatidae						
<i>Lepidostoma</i> sp.						2
Megaloptera						
Corydalidae						
<i>Nigronia</i> sp.		5		1	2	1
Silidae						
<i>Sialis</i> sp.		1				
Odonata						
Zygoptera						
Calopterygidae						
<i>Calopteryx</i> sp.						
Anisoptera						
Gomphidae						
<i>Ophogomphus</i> sp.						
<i>Lanthus</i> sp.						
Hemiptera						
Gerridae					P	
Veliidae						
Diptera		2			1	2 -2 species
Chironomidae	457	113	35	20	122	8
Simuliidae						
<i>Simulium</i> sp.		5			2	25
Empididae						
<i>Hemerodromia</i> sp.	17			2		
<i>Chelifera</i> sp.	4					
<i>Clinocera</i> sp.		2				
Ceratopogonidae		1				
Tipulidae	1	2		1		6
<i>Tipula</i> sp.	3	1	2			1
<i>Tipula</i> sp. 2						2
<i>Hexatoma</i> sp.		1				
<i>Antocha</i> sp.	5	1		2	2	
Tabanidae						
<i>Chrysops</i> sp.						
<i>Tabanus</i> sp.						2
Psychodidae						
<i>Psychoda</i> sp.						
<i>Pericoma</i> sp.						1
Stratiomyidae						
<i>Nematelus</i> sp.						
Coleoptera						1
Elmidae						
<i>Dubiraphia</i> sp.						
<i>Stenelmis</i> sp.	7	1		13		
<i>Optioservus</i> sp.						

**THREE RIVERS SECOND NATURE
RESULTS OF APRIL 2002 RAPID INVERTEBRATE
(10 MINUTE SAMPLING STATION)
BIOLOGICAL ASSESSMENTS**

	Plum Creek	Guys Run	Falling Springs Run	Deer Creek (Lower)	Little Deer Creek	Blacks Run
Phylum						
Class						
Order						
Suborder						
Family						
GenUs						
Coleoptera (cont)						
Psephenidae						
<i>Psephenus</i> sp.	9			1		
<i>Ectopria</i> sp.	1					
Crustacea						
Amphipoda						
Gammaridae						
<i>Gammarus</i> sp.	15			21		
Isopoda						
Asellidae						
<i>Caecidotea</i> sp.	11	2		1		
Decapoda						
Cambaridae						
<i>Orconectes obscurus</i>						
<i>Cambarus Bartoni</i>						
Mollusca						
Bivalvia						
Sphaeriidae						
Corbiculidae						
Gastropoda						
Physidae						
Lymnaeidae						
Ancylidae						
Annelida						
Oligochaeta	5	6	157	1		2
Tubificidae						
Hirudinea						
Nematoda	1					
Turbellaria	1					
Planaria			1			
Collembola		1	5			1
Acariformes						
Hydrachnidae	1					
Total Number Taxa	21	26	5	15	10	20
Total Number of Organisms	746	697	200	99	185	164
Total Number of EPT Taxa*	6	11	0	5	5	7
Total Number of EPT Organism	208	553	0	36	56	112
Percent EPT Organisms	27.88	79.34	0.0	36.36	30.27	68.29
Percent A & C Organisms**	61.93	17.07	96.0	21.21	65.95	6.1

**THREE RIVERS SECOND NATURE
RESULTS OF APRIL 2002 RAPID INVERTEBRATE
(10 MINUTE SAMPLING STATION)
BIOLOGICAL ASSESSMENTS**

	Tawney Run	Riddle Run	Pucketa Creek	Little Pucketa Creek	Crawford Run	Bailey Run
Phylum						
Class						
Order						
Suborder						
Family						
Genus						
Arthropoda						
Insecta						
Ephemeroptera						
Baetidae						
<i>Baetis</i> sp.	4		2			
Heptageniidae						
<i>Stenonema</i> sp.						
<i>Stenonema vicarium</i>			3			1
<i>Epeorus</i> sp.	7	3			1	
<i>Stenacron</i> sp.			4	1		
Ephemerellidae						
<i>Eurylophella</i> sp.	4		1	1		3
<i>Ephemerella</i> sp.	8					2
Caenidae						
<i>Caenis</i> sp.			2	11		
Siphonuridae						
<i>Ameletus</i> sp.		1				
Oligoneuriidae						
<i>Isonychia</i> sp.			3			
Plecoptera						
Peltoperlidae						
<i>Peltoperla</i> sp.						
Perlodidae						
<i>Isoperla</i> sp.	2	11	1			1
Chloroperlidae						
<i>Alloperla</i> sp.					3	1
Leuctridae						
<i>Leuctra</i> sp.	11	2				
Nemouridae						
<i>Amphinemura</i> sp.	169	1056	9	12	8	9
Trichoptera						
Hydropsychidae						
<i>Cheumatopsyche</i> sp.	50	28	43	8	7	16
<i>Dipterotrana</i> sp.	55	13	2		14	2
<i>Hydropsyche</i> sp.	40	4	3		6	11
<i>Hydropsyche morosa</i>	1		11			3
Philopotamidae						
<i>Dolophilodes</i> sp.						
<i>Wormaldia</i> sp.		1				
Lepoceridae						
<i>Ceraclea</i> sp.						
Hydroptilidae						
<i>Hydroptila</i> sp.						1
Uenoidae						
<i>Neophylax</i> sp.	5	119				1
Rhyacophilidae						
<i>Rhyacophila</i> sp.	2	7			4	
Polycentropodidae						
<i>Neureclipsis</i> sp.						1
<i>Polycentropus</i> sp.	2					1

**THREE RIVERS SECOND NATURE
RESULTS OF APRIL 2002 RAPID INVERTEBRATE
(10 MINUTE SAMPLING STATION)
BIOLOGICAL ASSESSMENTS**

	Shade Run	Squaw Run	Sandy Creek	Quigley Creek	Indian Creek	Powers Run
Phylum						
Class						
Order						
Suborder						
Family						
Genus						
Megaloptera						
Corydalidae						
<i>Nigronia</i> sp.						
Silidae						
<i>Sialis</i> sp.						1
Odonata						
Zygoptera						
Calopterygidae						
<i>Calopteryx</i> sp.						
Anisoptera						
Gomphidae						
<i>Ophogomphus</i> sp.						
<i>Lanthus</i> sp.						
Hemiptera						
Gerridae		P	P			P
Veliidae						P
Diptera		2				
Chironomidae	14	20	15	45	19	229
Simuliidae						
<i>Simulium</i> sp.		6				2
Empididae						
<i>Hemerodromia</i> sp.			1			
<i>Chelifera</i> sp.			1			
<i>Clinocera</i> sp.						
Ceratopogonidae						
Tipulidae			1			
<i>Tipula</i> sp.	1			2	6	
<i>Hexatoma</i> sp.						
<i>Antocha</i> sp.		1	1			1
Tabanidae						
<i>Chrysops</i> sp.						
<i>Tabanus</i> sp.						
Psychodidae						
<i>Psychoda</i> sp.						
<i>Pericoma</i> sp.						
Stratiomyidae						
<i>Nematelus</i> sp.						
Coleoptera		1				
Elmidae						
<i>Dubiraphia</i> sp.						
<i>Stenelmis</i> sp.		30				
<i>Optioservus</i> sp.		2				

**THREE RIVERS SECOND NATURE
RESULTS OF APRIL 2002 RAPID INVERTEBRATE
(10 MINUTE SAMPLING STATION)
BIOLOGICAL ASSESSMENTS**

	Tawney Run	Riddle Run	Pucketa Creek	Little Pucketa Creek	Crawford Run	Bailey Run
Phylum						
Class						
Order						
Suborder						
Family						
Genus						
Coleoptera (cont)						
Psephenidae						
<i>Psephenus</i> sp.	28	19	12	6	1	7
<i>Ectopria</i> sp.		7				
Crustacea						
Amphipoda						
Gammaridae						
<i>Gammarus</i> sp.			1	2		
Isopoda						
Asellidae						
<i>Caecidotea</i> sp.	1			11	2	
Decapoda						
Cambaridae						
<i>Orconectes obscurus</i>						
<i>Cambarus Bartoni</i>		P		1	1	
Mollusca						
Bivalvia						
Sphaeriidae						
Corbiculidae						
Gastropoda						
Physidae	4				1	
Lymnaeidae		1				
Ancylidae						
Annelida						
Oligochaeta	4	1	3	7	7	
Tubificidae						
Hirudinea						
Nematoda						
Turbellaria						
Planaria						
Collembola	2					
Acariformes						
Hydrachnidae						
Total Number Taxa	33	21	21	15	17	22
Total Number of Organisms	577	1371	170	331	216	206
Total Number of EPT Taxa*	15	11	12	5	7	14
Total Number of EPT Organism	364	1245	85	33	43	53
Percent EPT Organisms	63.08	90.81	50.0	9.97	19.91	25.73
Percent A & C Organisms**	23.22	3.21	36.47	43.81	75.0	31.07

**THREE RIVERS SECOND NATURE
RESULTS OF APRIL 2002 RAPID INVERTEBRATE
(10 MINUTE SAMPLING STATION)
BIOLOGICAL ASSESSMENTS**

	Bull Creek	Little Bull Creek	Chartiers Run	Buffalo Creek		
Phylum						
Class						
Order						
Suborder						
Family						
Genus						
Arthropoda						
Insecta						
Ephemeroptera						
Baetidae						
<i>Baetis</i> sp.				1		
Heptageniidae						
<i>Stenonema</i> sp.				32		
<i>Stenonema vicarium</i>						
<i>Epeorus</i> sp.	1					
<i>Stenacron</i> sp.		1	1	18		
Ephemerellidae						
<i>Eurylophella</i> sp.			1			
<i>Ephemerella</i> sp.				1		
Caenidae						
<i>Caenis</i> sp.	5	9	3	100		
Siphonuridae						
<i>Ameletus</i> sp.						
Oligoneuriidae						
<i>Isonychia</i> sp.	1	4				
Plecoptera						
Peltoperlidae						
<i>Peltoperla</i> sp.						
Perlodidae						
<i>Isoperla</i> sp.				1		
Chloroperlidae		1				
<i>Alloperla</i> sp.						
Leuctridae						
<i>Leuctra</i> sp.		1				
Nemouridae						
<i>Amphinemura</i> sp.	4	2	1	51		
Trichoptera						
Hydropsychidae						
<i>Cheumatopsyche</i> sp.	45	47	45	84		
<i>Diplectrona</i> sp.			4			
<i>Hydropsyche</i> sp.	14	8		19		
<i>Hydropsyche morosa</i>	6	12		40		
Philopotamidae						
<i>Dolophilodes</i> sp.						
<i>Wormalidia</i> sp.						
Hydroptilidae						
<i>Hydroptila</i> sp.		1		1		
Uenoidae						
<i>Neophylax</i> sp.				1		
Rhyacophilidae						
<i>Rhyacophila</i> sp.		1		10		
Polycentropodidae						
<i>Neureclipsis</i> sp.						
<i>Polycentropus</i> sp.						

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RESULTS OF APRIL, 2002 RAPID INVERTEBRATE
(10 MINUTE SAMPLING STATION)
BIOLOGICAL ASSESSMENTS**

	Bull Creek	Little Bull Creek	Chartiers Run	Buffalo Creek		
Phylum						
Class						
Order						
Suborder						
Family						
Genus						
Trichoptera (cont)						
Lepidostomatidae						
<i>Lepidostoma</i> sp.						
Philopotamidae						
<i>Chimarra</i> sp.	28	3		3		
Megaloptera						
Corydalidae						
<i>Nigronia</i> sp.	1	2				
Silidae						
<i>Sialis</i> sp.						
Odonata						
Zygoptera						
Calopterygidae						
<i>Calopteryx</i> sp						
Coenagrionidae						
<i>Argia</i> sp.				5		
Anisoptera						
Gomphidae						
<i>Ophogomphus</i> sp.			1			
<i>Lanthus</i> sp.						
Hemiptera						
Gerridae						
Veliidae						
Diptera	1	3	2- 2 species	2		
Chironomidae	49	97	67	144		
Chironominae						
Simuliidae						
<i>Simulium</i> sp.		3		26		
Empididae						
<i>Hemerodromia</i> sp.	1	5		2		
<i>Chelifera</i> sp.						
<i>Clinocera</i> sp.						
Ceratopogonidae						
Tipulidae			1			
<i>Tipula</i> sp.	1			4		
<i>Hexatoma</i> sp.						
<i>Antocha</i> sp.		2		1		
Tabanidae						
<i>Chrysops</i> sp.						
<i>Tabanus</i> sp.			1			
Psychodidae						
<i>Psychoda</i> sp.						
<i>Pericoma</i> sp.				1		
Stratiomyidae						
<i>Nematelus</i> sp.						
Coleoptera						
Elmidae						
<i>Dubiraphia</i> sp.			1	1		
<i>Stenelmis</i> sp.	18	19	21	77		
<i>Optioservus</i> sp.	1	6		6		

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RESULTS OF APRIL 2002 RAPID INVERTEBRATE
(10 MINUTE SAMPLING STATION)
BIOLOGICAL ASSESSMENTS**

	Bull Creek	Little Bull Creek	Chartiers Run	Buffalo Creek		
Phylum						
Class						
Order						
Suborder						
Family						
Genus						
Coleoptera (cont)						
Psephenidae						
<i>Psephenus</i> sp.	18	11	18	99		
<i>Ectopria</i> sp.		1				
Crustacea						
Amphipoda						
Gammaridae						
<i>Gammarus</i> sp.	1	3	1	14		
Isopoda						
Asellidae						
<i>Caecidotea</i> sp.			1	4		
Decapoda						
Cambaridae						
<i>Orconectes obscurus</i>	1			1		
<i>Cambarus Bartoni</i>						
Mollusca						
Bivalvia						
Sphaeriidae						
Corbiculidae				P		
Gastropoda						
Physidae			1	2		
Lymnaeidae			1			
Ancylidae			1	1		
Annelida						
Oligochaeta			9	1		
Tubificidae						
Hirudinea						
Nematoda						
Turbellaria						
Planaria	1					
Collembola						
Acariformes						
Hydrachnidae						
Total Number Taxa	19	23	21	32		
Total Number of Organisms	197	243	181	753		
Total Number of EPT Taxa*	8	12	6	14		
Organisms	104	91	55	362		
Percent EPT Organisms	52.79	37.45	30.39	48.07		
Percent A & C Organisms**	24.87	39.92	41.99	19.26		

* EPT = Ephemeroptera, Plecoptera, and Trichoptera (mayflies, stoneflies, and caddisflies)

** AC = Annelida and Chironomidae (segmented worms and midges)

P = Present