

May 2012



Environmental
Protection Agency

Division of Surface Water

Appendices to: Biological and Water Quality Study of the Upper Scioto River Watershed 2009 & 2011



John Kasich, Governor
Mary Taylor, Lt. Governor
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Upper Scioto River TSD Appendices

2009 & 2011

DSW/2012-3-5

May 01, 2012

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Appendix A-1

**Qualitative Habitat Evaluation Index (QHEI) attributes and scores
collected from the upper Scioto River basin, 2009 and 2011.**

		WWH Attributes										MWH Attributes									

River Mile	QHEI	Gradient (ft/mile)	WWH Attributes										MWH Attributes										Total M.L. MWH Attributes	(MWH HL+1)/(MWH+1) Ratio	(MWH HL+1)/(MWH+1) Ratio																	
			No Channelization or Recovered Boulders/Cobble/Graavel Substrates	Silt Free Substrates	Good/Excellent Substrates	Moderate/Fair Sinuosity	Extensive/Moderate Cover	Fast Current/Eddies	Low Normal Overall Embeddedness	Max Depth > 40 cm	Low Normal Riffle Embeddedness	Total WWH Attributes	High Influence				Moderate Influence																									
													Channelized or No Recovery Silt/Muck Substrates	No Sinuosity	Sparsely No Cover	Max Depth < 40 cm (WD, HW)	Total H.L. MWH Attributes				Recovering Channel	Heavy/Moderate Silt Cover	Sand Substrates (Boat)	Handpan Substrate Origin	Fair/Poor Development	Low Sinuosity	Only 1-2 Cover Types	Intermittent and Poor Pools	No Fast Current	High Mod. Overall Embeddedness	High Mod. Riffle Embeddedness	No Riffle										
(02-166) McDonald Creek																																										
Year: 2009																																										
9.1	38.0	5.32	■		■							2	◆		◆	◆		3	●	●		●			●	●	●	●	●	6	1.33	3.33										
6.8	43.0	11.11	■		■					■		3	◆		◆	◆		3	●	●		●			●	●	●	●	●	6	1.00	2.50										
2.7	44.5	5.32	■	■		■	■			■		5			◆	◆		2	●	●		●			●	●	●	●	●	6	0.50	1.50										
(02-172) Wildcat Creek																																										
Year: 2009																																										
6.7	43.5	8.77	■		■					■		3	◆		◆			2	●	●		●	●	●		●	●	●	●	7	0.75	2.50										
4.0	49.5	12.50	■		■					■		3			◆	◆		2	●	●		●			●	●	●	●	●	6	0.75	2.25										
0.5	84.5	6.02	■	■	■	■	■	■	■	■	■	8						0		●						●			2	0.11	0.33											
(02-175) Panther Creek																																										
Year: 2009																																										
8.9	82.5	11.90	■	■	■	■	■	■	■	■	■	8						0		●					●	●			3	0.11	0.44											
7.8	75.0	9.43	■	■	■	■	■	■	■	■	■	8						0		●					●	●	●		4	0.11	0.56											
1.8	71.5	6.10	■	■	■	■	■	■	■	■	■	8						0		●				●		●			3	0.11	0.44											
(02-177) Wolf Creek																																										
Year: 2009																																										
0.5	59.0	12.20	■	■		■	■		■	■	■	7			◆	◆		2		●		●			●	●	●	●	5	0.38	1.00											
(02-181) Taylor Creek																																										
Year: 2011																																										
0.8	65.0	16.67	■	■	■	■	■		■			6			◆			1		●		●			●	●	●	●	5	0.29	1.00											
Year: 2009																																										
4.5	80.0	7.14	■	■	■	■	■	■	■	■	■	9						0		●					●				2	0.10	0.30											
0.8	66.5	16.67	■	■	■	■	■		■			6						0		●		●			●	●	●	●	5	0.14	0.86											
(02-182) Silver Creek																																										
Year: 2009																																										
2.3	74.5	10.53	■	■	■	■	■		■			6						0		●		●			●	●	●	●	5	0.14	0.86											
(02-186) McCoy Run																																										
Year: 2009																																										
0.6	53.5	6.76	■		■	■		■	■			5			◆			1		●	●		●			●	●	●	●	6	0.33	1.33										
(02-188) Cottonwood Ditch																																										
Year: 2009																																										
4.1	24.0	2.63			■					■		2	◆	◆		◆	◆	4		●	●		●		●	●	●	●	●	7	1.67	4.00										
0.7	18.0	2.05								■		1	◆	◆		◆	◆	4		●		●		●	●	●	●	●	●	6	2.50	5.50										

Appendix A-2

**Qualitative Habitat Evaluation Index (QHEI) attributes and scores
collected from the upper Scioto River basin, 2009 and 1995.**

River Mile	QHEI	Gradient (ft/mile)	WWH Attributes									MWH Attributes										Total M.L. MWH Attributes	(MWH HL+1)/(MWH+1) Ratio	(MWH ML+1)/(MWH+1) Ratio																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
			No Channelization or Recovered Boulders/Cobble/Gravel Substrates	Silt Free Substrates	Good/Excellent Substrates	Moderate/Poor Sinuosity	Extensive/Moderate Cover	Fast Current/Eddies	Low/Normal Overall Embeddedness	Max Depth > 40 cm	Low/Normal Rifle Embeddedness	Total WWH Attributes	High Influence				Moderate Influence																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
													Channelized or No Recovery Silt/Muck Substrates	No Sinuosity	Sparse/No Cover	Max Depth < 40 cm (WD, HW)	Total H.L. MWH Attributes	Recovering Channel	Heavy/Moderate Silt Cover	Sand Substrates (Boat)	Handpan Substrate Origin				Fair/Poor Development	Low Sinuosity	Only 1-2 Cover Types	Intermittent and Poor Pools	No Fast Current	High/Med. Overall Embeddedness	High/Low Rifle Embeddedness	No Rifle																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
(02-001) Scioto River																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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236.7	61.5	5.15	#	#	#	#	#		#		6			0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				</

Appendix B-1

Fish scores for the Index of Biotic Integrity (IBI) and the Modified Index of well being (MIwb) for the Upper Scioto River watershed, 2009 & 2011.

River Mile	Type	Date	Drainage area (sq mi)	Number of						Percent of Individuals					Rel.No. minus tolerants /(0.3km)	IBI	
				Total species	Minnow species	Headwater species	Sensitive species	Darter & Sculpin species	Simple Lithophils	Tolerant fishes	Omni- vores	Pioneering fishes	Insect- ivores	DELT anomalies			
Scioto River - (02-001)																	
Year: 2009																	
236.70	E	07/21/2009	4.9	25(5)	10(5)	2(3)	4(5)	6(5)	7(5)	54(3)	12(5)	46(3)	53(5)	0.1(5)	2620(5)	54	
234.40	E	07/21/2009	18.3	25(5)	8(5)	2(3)	4(3)	6(5)	8(5)	55(1)	23(3)	40(3)	48(3)	0.0(5)	520(3)	44	
Fulton Creek - (02-145)																	
Year: 2009																	
16.30	E	07/30/2009	12.5	13(3)	5(3)	0(1)	0(1)	0(1)	2(1)	76(1)	7(5)	9(5)	81(5)	0.0(5)	58(1)	32	
Kebler Run - (02-148)																	
Year: 2009																	
0.80	E	07/30/2009	14.3	20(5)	6(3)	1(1)	5(3)	5(5)	6(3)	31(5)	22(3)	32(3)	43(3)	0.0(5)	690(3)	42	
Ottawa Creek - (02-149)																	
Year: 2009																	
0.10	E	07/30/2009	8.0	14(5)	6(5)	1(1)	5(5)	4(5)	4(3)	39(3)	29(1)	46(3)	36(3)	0.0(5)	529(3)	42	
Battle Run - (02-154)																	
Year: 2009																	
0.30	E	07/30/2009	9.4	11(3)	2(1)	1(1)	2(1)	4(5)	3(3)	50(3)	7(5)	45(3)	68(5)	0.0(5)	148(1)	36	
Patton Run - (02-155)																	
Year: 2009																	
2.30	E	07/29/2009	14.4	11(3)	3(1)	0(1)	2(1)	5(5)	5(3)	60(1)	17(5)	68(1)	30(3)	0.0(5)	326(3)	32	
Little Scioto River - (02-158)																	
Year: 2009																	
25.60	E	07/28/2009	12.8	14(3)	3(1)	0(1)	2(1)	5(5)	5(3)	59(1)	27(3)	73(1)	30(3)	0.0(5)	212(3)	30	
Honey Creek - (02-159)																	
Year: 2009																	
0.10	D	07/20/2009	7.3	16(5)	5(3)	0(1)	1(1)	1(1)	2(1)	78(1)	62(1)	57(1)	30(3)	0.0(5)	74(1)	24	
Rock Fork - (02-162)																	
Year: 2009																	
8.10	E	07/28/2009	6.5	10(3)	5(3)	0(1)	0(1)	2(3)	3(3)	51(3)	11(5)	70(1)	43(5)	0.0(5)	100(1)	34	
Rush Creek - (02-165)																	

♦ - IBI is low end adjusted.

* - < 200 Total individuals in sample

** - < 50 Total individuals in sample

● - One or more species excluded from IBI calculation.

River Mile	Type	Date	Drainage area (sq mi)	Number of						Percent of Individuals					Rel.No. minus tolerants /(0.3km)	IBI
				Total species	Minnow species	Headwater species	Sensitive species	Darter & Sculpin species	Simple Lithophils	Tolerant fishes	Omni- vores	Pioneering fishes	Insect- ivores	DELT anomalies		
Year: 2009																
39.50	E	07/29/2009	11.8	14(3)	3(1)	2(3)	2(1)	6(5)	5(3)	59(1)	23(3)	52(3)	18(1)	0.0(5)	462(3)	32
36.20	E	07/29/2009	14.8	18(5)	7(5)	1(1)	7(5)	5(5)	8(5)	35(3)	21(3)	27(5)	43(3)	0.0(5)	668(3)	48
McDonald Creek - (02-166)																
Year: 2009																
9.10	E	07/27/2009	2.6	5(3)	3(3)	0(1)	0(1)	1(1)	2(3)	28(5)	28(1)	30(5)	3(1)	0.0(5)	156(3)	32
6.80	E	07/27/2009	6.3	10(3)	6(5)	0(1)	0(1)	2(3)	2(1)	52(3)	42(1)	63(1)	17(1)	0.0(5)	878(5)	30
2.70	E	07/27/2009	12.3	12(3)	5(3)	0(1)	1(1)	3(3)	3(1)	54(3)	15(5)	74(1)	29(3)	0.0(5)	356(3)	32
Wildcat Creek - (02-172)																
Year: 2009																
6.70	E	07/27/2009	4.3	13(5)	5(3)	0(1)	1(1)	1(1)	3(3)	48(3)	3(5)	43(3)	46(5)	0.0(5)	342(3)	38
4.00	E	07/27/2009	8.4	14(5)	7(5)	0(1)	2(1)	3(3)	4(3)	42(3)	23(3)	71(1)	42(5)	0.2(5)	540(3)	38
Panther Creek - (02-175)																
Year: 2009																
8.90	E	07/28/2009	7.1	14(5)	7(5)	1(1)	0(1)	3(3)	3(3)	44(3)	18(3)	47(3)	30(3)	0.0(5)	718(5)	40
7.80	E	07/28/2009	11.0	11(3)	3(1)	1(1)	1(1)	5(5)	4(3)	59(1)	16(5)	65(1)	26(3)	0.0(5)	194(1)	30
Wolf Creek - (02-177)																
Year: 2009																
0.50	E	07/28/2009	12.0	15(5)	6(3)	1(1)	2(1)	6(5)	6(3)	45(3)	26(3)	50(3)	45(5)	0.0(5)	226(3)	40
Taylor Creek - (02-181)																
Year: 2011																
0.80	E	06/29/2011	16.3	20(5)	7(5)	1(1)	4(3)	5(5)	5(3)	51(3)	44(1)	54(3)	27(3)	0.1(5)	926(5)	42
Year: 2009																
4.50	E	07/28/2009	12.0	17(5)	6(3)	1(1)	4(3)	7(5)	8(5)	44(3)	27(3)	40(3)	42(3)	0.0(5)	538(3)	42
0.80	E	07/28/2009	16.3	4(1)	2(1)	0(1)	0(1)	1(1)	1(1)	33(1)	33(1)	48(1)	67(1)	0.0(5)	28(1) * *	16
0.80	E	08/20/2009	16.3	1(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	0(1)	100(1)	0.0(1)	6(1) * *	12
2.30	E	07/28/2009	11.3	21(5)	9(5)	0(1)	4(3)	5(5)	7(5)	64(1)	43(1)	52(3)	37(3)	0.0(5)	320(3)	40
McCoy Run - (02-186)																

♦ - IBI is low end adjusted.

* - < 200 Total individuals in sample

** - < 50 Total individuals in sample

● - One or more species excluded from IBI calculation.

River Mile	Type	Date	Drainage area (sq mi)	Number of						Percent of Individuals					Rel.No. minus tolerants /(0.3km)	IBI	
				Total species	Minnow species	Headwater species	Sensitive species	Darter & Sculpin species	Simple Lithophils	Tolerant fishes	Omni- vores	Pioneering fishes	Insect- ivores	DELT anomalies			
Year: 2009																	
0.60	E	07/13/2009	8.0	20(5)	6(5)	1(1)	3(3)	6(5)	6(5)	34(5)	29(1)	36(3)	30(3)	0.0(5)	1246(5)	46	
Cottonwood Ditch - (02-188)																	
Year: 2009																	
4.10	E	07/21/2009	11.3	14(3)	9(5)	0(1)	0(1)	1(1)	2(1)	59(1)	41(1)	62(1)	29(3)	0.4(5)	218(3)	26	
0.70	E	07/21/2009	19.3	13(3)	4(3)	0(1)	2(1)	1(1)	3(1)	35(3)	10(5)	32(3)	88(5)	0.0(5)	256(3)	34	
Dunlap Creek - (02-190)																	
Year: 2009																	
0.10	E	07/21/2009	8.9	16(5)	7(5)	0(1)	1(1)	1(1)	1(1)	49(3)	12(5)	46(3)	81(5)	0.0(5)	166(1)	36	
Wallace Fork - (02-193)																	
Year: 2011																	
0.20	E	06/29/2011	4.8	10(3)	2(1)	1(1)	0(1)	2(3)	2(1)	33(5)	0(5)	73(1)	73(5)	0.0(5)	94(1) *	32	
N. Rockswale Ditch - (02-237)																	
Year: 2009																	
0.60	E	07/29/2009	10.0	6(1)	4(3)	0(1)	0(1)	1(1)	0(1)	60(1)	10(5)	65(1)	15(1)	0.0(5)	32(1) *	22	
Elliot Run - (02-374)																	
Year: 2011																	
1.30	E	06/29/2011	2.5	6(3)	3(3)	0(1)	0(1)	2(3)	1(1)	48(1)	12(3)	76(1)	52(5)	0.0(5)	26(1) * *	28	
Year: 2009																	
1.30	E	07/29/2009	2.5	4(1)	0(1)	0(1)	0(1)	2(3)	1(1)	0(1)	0(1)	71(1)	86(1)	0.0(1)	14(1) * *	14	

♦ - IBI is low end adjusted.

* - < 200 Total individuals in sample

** - < 50 Total individuals in sample

● - One or more species excluded from IBI calculation.

River Mile	Type	Date	Drainage area (sq mi)	Number of					Percent of Individuals						Rel.No. minus tolerants /(0.3km)	IBI	Modified Iwb
				Total species	Sunfish species	Sucker species	Intolerant species	Darter species	Simple Lithophils	Tolerant fishes	Omni- vores	Top carnivores	Insect- ivores	DELT anomalies			
Scioto River - (02001)																	
Year: 2011																	
211.50	D	07/05/2011	162	24(5)	4(5)	3(3)	1(1)	6(5)	16(1)	45(1)	35(1)	7.3(5)	56(5)	0.0(5)	305(3)	40	8.1
210.10	D	07/05/2011	170	27(5)	5(5)	3(3)	2(1)	7(5)	23(3)	32(3)	30(3)	1.7(3)	57(5)	0.3(3)	1316(5)	44	9.9
207.30	D	07/08/2011	178	26(5)	5(5)	2(1)	2(1)	7(5)	34(3)	21(3)	17(5)	7.8(5)	60(5)	0.0(5)	791(5)	48	10.0
203.40	D	06/30/2011	223	23(5)	6(5)	3(3)	1(1)	7(5)	19(3)	26(3)	14(5)	5.3(5)	79(5)	0.3(5)	435(3)	48	8.7
192.20	D	07/08/2011	262	11(1)	1(1)	3(3)	0(1)	1(1)	10(1)	30(3)	13(5)	3.3(3)	82(5)	0.0(5)	126(1) *	30	6.2
192.20	D	08/18/2011	262	21(3)	5(5)	4(3)	1(1)	3(3)	21(3)	38(1)	15(5)	4.0(3)	77(5)	0.0(5)	140(1)	38	8.2
Year: 2009																	
231.80	E	07/07/2009	28	20(5)	2(3)	2(3)	1(1)	6(5)	35(3)	55(1)	27(3)	0.8(1)	57(5)	0.0(5)	330(3)	38	7.7
231.80	E	08/04/2009	28	19(5)	2(3)	2(3)	1(1)	5(5)	29(3)	55(1)	20(3)	1.1(3)	60(5)	0.0(5)	242(3)	40	7.3
226.30	D	08/03/2009	49	29(5)	4(5)	4(5)	2(1)	5(5)	32(3)	56(1)	27(3)	2.3(3)	68(5)	0.0(5)	320(3)	44	8.1
226.30	D	07/07/2009	49	25(5)	4(5)	3(3)	1(1)	6(5)	20(3)	41(3)	21(3)	2.4(3)	75(5)	0.0(5)	635(3)	44	8.9
224.20	D	07/07/2009	62	24(5)	3(3)	2(3)	2(1)	5(5)	10(1)	64(1)	31(3)	1.2(3)	64(5)	0.0(5)	435(3)	38	7.6
224.20	D	08/03/2009	62	23(5)	4(5)	1(1)	1(1)	5(5)	6(1)	46(1)	32(3)	0.8(1)	56(5)	0.0(5)	320(3)	36	7.6
222.80	D	07/07/2009	67	25(5)	3(3)	3(3)	1(1)	5(5)	17(1)	37(3)	31(3)	3.1(3)	61(5)	0.0(5)	302(3)	40	7.7
222.80	D	08/04/2009	67	27(5)	4(5)	4(5)	2(1)	6(5)	20(3)	37(3)	29(3)	2.4(3)	61(5)	0.0(5)	314(3)	46	7.5
216.60	D	08/04/2009	117	19(3)	4(5)	5(5)	0(1)	4(3)	24(3)	45(1)	22(3)	3.7(3)	68(5)	0.0(5)	134(1)	38	7.9
216.60	D	07/14/2009	117	25(5)	4(5)	6(5)	1(1)	5(3)	34(3)	42(1)	28(3)	4.8(3)	61(5)	0.0(5)	218(3)	42	8.8
211.50	D	08/04/2009	162	7(1)	2(3)	1(1)	0(1)	0(1)	5(1)	85(1)	35(1)	0.0(1)	55(1)	0.0(1)	5(1) * *	14	0.6
211.50	D	07/13/2009	162	8(1)	2(3)	2(1)	0(1)	0(1)	29(3)	47(1)	29(3)	1.6(3)	65(5)	0.0(5)	50(1) *	28	5.6
210.10	D	07/13/2009	170	14(3)	4(5)	1(1)	1(1)	2(1)	2(1)	20(5)	5(5)	1.0(1)	43(3)	0.0(5)	254(3)	34	6.0
210.10	D	08/06/2009	170	20(3)	3(3)	1(1)	1(1)	6(5)	19(3)	19(5)	12(5)	0.3(1)	53(3)	0.0(5)	465(3)	38	7.4
207.30	D	07/14/2009	178	14(3)	3(3)	0(1)	2(1)	5(3)	33(3)	29(3)	10(5)	4.8(3)	81(5)	0.0(5)	68(1) *	36	6.5
207.30	D	08/06/2009	178	17(3)	3(3)	2(1)	2(1)	5(3)	23(3)	37(1)	28(3)	3.1(3)	69(5)	0.0(5)	150(1)	32	7.1

na - Qualitative data, Modified Iwb not applicable.

♦ - IBI is low end adjusted.

* - < 200 Total individuals in sample

** - < 50 Total individuals in sample

● - One or more species excluded from IBI calculation.

River Mile	Type	Date	Drainage area (sq mi)	Number of					Percent of Individuals						Rel.No. minus tolerants /(0.3km)	IBI	Modified Iwb
				Total species	Sunfish species	Sucker species	Intolerant species	Darter species	Simple Lithophils	Tolerant fishes	Omni- vores	Top carnivores	Insect- ivores	DELT anomalies			
203.40	D	07/14/2009	223	16(3)	3(3)	1(1)	2(1)	5(3)	16(1)	45(1)	18(5)	5.5(5)	77(5)	0.0(5)	209(3)	36	7.5
203.40	D	08/04/2009	223	20(3)	3(3)	2(1)	2(1)	6(5)	24(3)	35(1)	20(3)	7.6(5)	69(5)	0.0(5)	219(3)	38	7.8
192.20	D	08/10/2009	262	24(5)	4(5)	4(3)	2(1)	5(3)	15(1)	47(1)	22(3)	3.8(3)	70(5)	0.0(5)	168(1)	36	8.4
192.20	D	06/30/2009	262	14(3)	3(3)	4(3)	1(1)	0(1)	15(1)	49(1)	17(5)	2.1(3)	75(5)	0.0(5)	144(1)	32	7.9
186.00	D	08/17/2009	379	20(3)	3(3)	4(3)	0(1)	4(3)	20(3)	56(1)	20(3)	1.1(3)	77(5)	0.0(5)	117(1)	34	6.8
179.10	D	08/17/2009	407	25(5)	6(5)	3(3)	3(3)	4(3)	6(1)	31(1)	20(3)	5.1(5)	75(5)	0.0(5)	326(3)	42	8.5
169.50	D	08/17/2009	566	23(5)	6(5)	4(3)	2(1)	5(3)	9(1)	44(1)	56(1)	6.3(5)	36(3)	0.0(5)	392(3)	36	9.1
Fulton Creek - (02145)																	
Year: 2011																	
6.40	E	07/06/2011	40	8(1)	2(3)	0(1)	0(1)	3(3)	13(1)	25(1)	4(1)	29.2(1)	58(1)	0.0(1)	36(1)* *	16	4.6
Year: 2009																	
10.40	E	06/24/2009	24	18(5)	3(3)	1(1)	0(1)	6(5)	18(1)	44(3)	35(1)	4.2(3)	49(3)	0.0(5)	530(3)	34	8.3
10.40	E	08/12/2009	24	13(3)	1(1)	1(1)	0(1)	6(5)	21(3)	36(3)	26(3)	0.7(1)	31(3)	0.0(5)	382(3)	32	7.1
8.70	E	06/24/2009	29	12(3)	2(3)	1(1)	0(1)	5(5)	38(5)	37(3)	10(5)	20.0(5)	70(5)	0.0(5)	76(1) *	42	5.6
8.70	E	08/12/2009	29	9(1)	2(3)	0(1)	0(1)	5(5)	35(3)	18(5)	9(5)	23.5(5)	68(5)	0.0(5)	56(1) *	40	5.2
6.40	D	06/24/2009	40	4(1)	1(1)	0(1)	0(1)	0(1)	0(1)	61(1)	0(1)	38.9(1)	50(1)	0.0(1)	11(1)* *	12	2.0
6.40	D	08/13/2009	40	13(3)	1(1)	2(3)	0(1)	3(3)	11(1)	50(1)	19(5)	30.0(5)	24(1)	0.0(5)	70(1) *	30	5.6
1.20	D	06/24/2009	46	23(5)	4(5)	1(1)	2(1)	5(5)	13(1)	61(1)	60(1)	6.1(5)	32(3)	0.0(5)	354(3)	36	7.0
1.20	E	08/13/2009	46	23(5)	4(5)	2(3)	1(1)	4(3)	23(3)	38(3)	29(3)	21.6(5)	46(3)	0.0(5)	236(3)	42	8.3
Little Scioto River - (02158)																	
Year: 2009																	
19.70	E	07/06/2009	33	14(3)	2(3)	2(3)	0(1)	2(1)	35(3)	80(1)	48(1)	2.8(3)	17(1)	0.0(5)	86(1)	26	5.6
19.70	E	08/12/2009	33	14(3)	2(3)	1(1)	0(1)	3(3)	25(3)	63(1)	45(1)	4.5(3)	30(3)	0.0(5)	150(1)	28	6.1
11.10	D	07/06/2009	47	17(3)	4(5)	2(3)	0(1)	1(1)	59(5)	85(1)	65(1)	2.0(3)	27(3)	0.0(5)	47(1)	32	4.8
11.10	D	08/12/2009	47	11(3)	2(3)	1(1)	0(1)	1(1)	51(5)	84(1)	60(1)	3.0(3)	24(1)	0.0(5)	17(1) *	26	3.9

na - Qualitative data, Modified Iwb not applicable.

♦ - IBI is low end adjusted.

* - < 200 Total individuals in sample

** - < 50 Total individuals in sample

● - One or more species excluded from IBI calculation.

River Mile	Type	Date	Drainage area (sq mi)	Number of					Percent of Individuals						Rel.No. minus tolerants /(0.3km)	IBI	Modified Iwb
				Total species	Sunfish species	Sucker species	Intolerant species	Darter species	Simple Lithophils	Tolerant fishes	Omni- vores	Top carnivores	Insect- ivores	DELT anomalies			
9.20	D	07/06/2009	72	12(3)	3(3)	1(1)	1(1)	4(3)	7(1)	63(1)	34(3)	1.3(3)	16(1)	0.0(5)	219(3)	28	6.7
9.20	E	08/12/2009	72	12(3)	2(3)	1(1)	0(1)	4(3)	5(1)	54(1)	34(3)	0.0(1)	36(3)	0.0(5)	112(1)	26	5.8
0.40	D	07/20/2009	113	9(1)	4(5)	1(1)	0(1)	0(1)	43(5)	89(1)	55(1)	3.5(3)	40(3)	0.0(5)	15(1) *	28	3.1
0.40	D	08/12/2009	113	12(3)	5(5)	1(1)	0(1)	0(1)	14(1)	66(1)	37(1)	4.2(3)	58(5)	0.0(5)	62(1) *	28	4.9
Rock Fork - (02162)																	
Year: 2009																	
1.10	D	07/06/2009	23	16(3)	3(3)	1(1)	0(1)	2(3)	13(1)	71(1)	47(1)	0.0(1)	31(3)	0.0(5)	257(3)	26	6.4
1.10	E	08/12/2009	23	10(3)	2(3)	1(1)	0(1)	2(3)	14(1)	67(1)	52(1)	0.0(1)	21(1)	0.0(5)	226(3)	24	6.1
Rush Creek - (02165)																	
Year: 2009																	
26.30	E	07/01/2009	25	19(5)	2(3)	3(5)	2(3)	4(5)	22(3)	41(3)	28(3)	3.0(3)	33(3)	0.0(5)	468(3)	44	7.6
26.30	E	08/11/2009	25	20(5)	1(1)	4(5)	3(3)	6(5)	20(3)	43(3)	15(5)	0.4(1)	34(3)	0.0(5)	526(3)	42	7.2
14.50	D	06/24/2009	50	18(3)	3(3)	3(3)	0(1)	6(5)	41(5)	44(3)	12(5)	5.9(5)	47(3)	0.0(5)	198(1)	42	8.0
14.50	D	08/11/2009	50	22(5)	2(3)	3(3)	0(1)	6(5)	47(5)	45(1)	22(3)	9.2(5)	51(3)	0.0(5)	269(3)	42	8.3
8.80	D	08/11/2009	74	16(3)	4(5)	4(5)	0(1)	3(3)	26(3)	66(1)	33(3)	9.8(5)	56(5)	0.0(5)	197(1)	40	6.0
8.80	D	06/30/2009	74	16(3)	4(5)	3(3)	0(1)	1(1)	22(3)	62(1)	32(3)	11.7(5)	49(3)	0.0(5)	171(1)	34	6.5
7.40	D	08/11/2009	74	25(5)	4(5)	5(5)	1(1)	7(5)	36(3)	49(1)	29(3)	13.0(5)	41(3)	0.0(5)	252(3)	44	7.8
7.40	D	06/30/2009	74	26(5)	4(5)	5(5)	2(1)	7(5)	28(3)	40(3)	22(3)	11.7(5)	51(3)	0.0(5)	368(3)	46	9.1
5.40	D	08/10/2009	77	22(5)	3(3)	3(3)	1(1)	6(5)	33(3)	57(1)	30(3)	9.2(5)	44(3)	0.0(5)	170(1)	38	7.6
5.40	D	06/30/2009	77	15(3)	2(3)	3(3)	0(1)	3(3)	18(3)	78(1)	33(3)	5.6(5)	43(3)	0.0(5)	47(1)	34	5.9
0.60	D	08/10/2009	105	15(3)	1(1)	2(1)	1(1)	5(3)	23(3)	67(1)	34(3)	5.9(5)	35(3)	0.0(5)	75(1)	30	5.6
0.60	D	06/30/2009	105	9(1)	1(1)	1(1)	0(1)	1(1)	37(5)	74(1)	37(1)	20.4(5)	31(3)	0.0(5)	21(1) *	26	4.7
Wildcat Creek - (02172)																	
Year: 2009																	
0.50	E	08/11/2009	22	17(3)	1(1)	2(3)	0(1)	5(5)	11(1)	63(1)	61(1)	0.0(1)	28(3)	0.0(5)	810(5)	30	7.3

na - Qualitative data, Modified Iwb not applicable.

♦ - IBI is low end adjusted.

* - < 200 Total individuals in sample

** - < 50 Total individuals in sample

● - One or more species excluded from IBI calculation.

River Mile	Type	Date	Drainage area (sq mi)	Number of					Percent of Individuals						Rel.No. minus tolerants /(0.3km)	IBI	Modified Iwb
				Total species	Sunfish species	Sucker species	Intolerant species	Darter species	Simple Lithophils	Tolerant fishes	Omni- vores	Top carnivores	Insect- ivores	DELT anomalies			
0.50	E	07/01/2009	22	21(5)	3(3)	1(1)	0(1)	5(5)	9(1)	61(1)	51(1)	0.2(1)	34(3)	0.0(5)	852(5)	32	8.2
Panther Creek - (02175)																	
Year: 2009																	
1.80	E	07/01/2009	22	15(3)	1(1)	2(3)	1(1)	6(5)	39(5)	16(5)	12(5)	1.0(1)	50(3)	0.0(5)	506(3)	40	7.3
1.80	E	08/11/2009	22	13(3)	0(1)	2(3)	0(1)	5(5)	26(3)	32(3)	27(3)	4.2(3)	25(1)	0.0(5)	224(3)	34	6.4

na - Qualitative data, Modified Iwb not applicable.

♦ - IBI is low end adjusted.

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** - < 50 Total individuals in sample

● - One or more species excluded from IBI calculation.

River Mile	Type	Date	Drainage area (sq mi)	Number of				Percent of Individuals							DELTA anomalies	Rel.No. minus tolerants /(1.0 km)	IBI	Modified lwb
				Total species	Sunfish species	Sucker species	Intolerant species	Rnd-bodied suckers	Simple Lithophils	Tolerant fishes	Omni- vores	Top carnivores	Insect- ivores					
Scioto River - (02-001)																		
Year: 2011																		
196.20	A	07/09/2011	258	12(3)	5(5)	4(3)	0(1)	6(1)	7(1)	65(1)	13(5)	0(1)	86(5)	1.8(3)	78(1)	30	6.0	
196.20	A	08/18/2011	258	20(3)	6(5)	5(3)	0(1)	33(3)	35(3)	22(3)	18(3)	5(1)	76(5)	0.0(5)	268(3)	38	9.4	
Year: 2009																		
196.20	A	08/18/2009	258	20(3)	7(5)	4(3)	0(1)	13(1)	16(1)	38(1)	11(5)	2(1)	85(5)	0.0(5)	198(1)	32	8.3	
196.20	A	06/23/2009	258	9(1)	3(3)	2(1)	0(1)	19(1)	22(1)	48(1)	20(3)	4(1)	70(5)	0.0(5)	56(1) *	24	7.0	
186.00	A	06/23/2009	379	12(3)	1(1)	5(3)	0(1)	34(3)	37(3)	53(1)	23(3)	2(1)	72(5)	0.0(5)	96(1)	30	7.5	
179.10	A	06/25/2009	407	23(5)	4(5)	6(5)	0(1)	16(1)	22(1)	39(1)	24(3)	8(3)	68(5)	0.0(5)	228(3)	38	8.6	
174.20	A	08/11/2009	530	16(3)	6(5)	4(3)	0(1)	7(1)	10(1)	66(1)	39(1)	5(1)	57(5)	1.8(3)	112(1)	26	7.1	
163.80	A	08/11/2009	660	29(5)	7(5)	4(3)	3(3)	10(1)	19(1)	28(1)	35(1)	9(3)	54(5)	0.3(5)	1026(5)	38	9.9	
163.80	A	10/06/2009	660	23(5)	6(5)	5(3)	2(3)	34(3)	38(3)	27(1)	27(3)	18(5)	55(5)	0.0(5)	364(3)	44	9.2	
157.10	A	08/12/2009	764	23(5)	7(5)	3(3)	2(3)	28(3)	37(3)	4(5)	4(5)	15(5)	74(5)	0.0(5)	840(5)	52	10.2	
Little Scioto River - (02-158)																		
Year: 2009																		
6.50	A	08/18/2009	86	10(3)	4(5)	2(1)	0(1)	1(1)	43(3)	69(1)	63(1)	2(1)	35(3)	0.0(5)	110(1)	26	6.1	
6.50	A	07/09/2009	86	11(3)	4(5)	1(1)	0(1)	0(1)	43(3)	83(1)	62(1)	2(1)	36(3)	0.0(5)	66(1)	26	5.5	
6.20	A	07/09/2009	86	13(3)	4(5)	4(3)	0(1)	6(1)	56(5)	79(1)	79(1)	1(1)	20(1)	0.0(5)	102(1)	28	6.2	
6.20	A	08/18/2009	86	12(3)	3(3)	4(3)	0(1)	7(1)	30(3)	45(1)	37(1)	2(1)	61(5)	0.0(5)	216(3)	30	7.3	

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* - < 200 Total individuals in sample

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Appendix C-1
Fish Species and Abundance for Each Sampling
Location, 2009 & 2011

Species List

Page 1

River Code: 02-001	Stream: Scioto River	Sample Date: 2009
River Mile: 236.70	Location: upst. Wallace Fork, adj. gravel road	Date Range: 07/21/2009
Time Fished: 1538 sec	Drainage: 4.9 sq mi	
Dist Fished: 0.15 km	Basin: Scioto River	No of Passes: 1
		Sampler Type: E

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Redfin Pickerel		P	M	P	5	10.00	0.18			
White Sucker	W	O	S	T	23	46.00	0.81			
Golden Shiner	N	I	M	T	372	744.00	13.12			
Western Blacknose Dace	N	G	S	T	122	244.00	4.30			
Creek Chub	N	G	N	T	517	1,034.00	18.23			
Redfin Shiner	N	I	N		58	116.00	2.05			
Striped Shiner	N	I	S		277	554.00	9.77			
Sand Shiner	N	I	M	M	19	38.00	0.67			
Silverjaw Minnow	N	I	M		180	360.00	6.35			
Fathead Minnow	N	O	C	T	79	158.00	2.79			
Bluntnose Minnow	N	O	C	T	245	490.00	8.64			
Central Stoneroller	N	H	N		353	706.00	12.45			
Yellow Bullhead		I	C	T	31	62.00	1.09			
Black Bullhead		I	C	P	21	42.00	0.74			
Tadpole Madtom		I	C		119	238.00	4.20			
Blackstripe Topminnow		I	M		21	42.00	0.74			
Green Sunfish	S	I	C	T	137	274.00	4.83			
Bluegill Sunfish	S	I	C	P	44	88.00	1.55			
Longear Sunfish	S	I	C	M	37	74.00	1.30			
Blackside Darter	D	I	S		8	16.00	0.28			
Logperch	D	I	S	M	1	2.00	0.04			
Johnny Darter	D	I	C		120	240.00	4.23			
Greenside Darter	D	I	S	M	3	6.00	0.11			
Orangethroat Darter	D	I	S		38	76.00	1.34			
Mottled Sculpin		I	C		6	12.00	0.21			
<i>Mile Total</i>					2,836	5,672.00				
<i>Number of Species</i>					25					
<i>Number of Hybrids</i>					0					

Species List

Page 2

River Code: 02-001	Stream: Scioto River	Sample Date: 2009
River Mile: 234.40	Location: Arbogast Rd.	Date Range: 07/21/2009
Time Fished: 1334 sec	Drainage: 18.3 sq mi	
Dist Fished: 0.15 km	Basin: Scioto River	No of Passes: 1
		Sampler Type: E

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Quillback	C	O	M		1	2.00	0.17			
Northern Hog Sucker	R	I	S	M	3	6.00	0.52			
White Sucker	W	O	S	T	72	144.00	12.54			
Golden Shiner	N	I	M	T	12	24.00	2.09			
Western Blacknose Dace	N	G	S	T	15	30.00	2.61			
Creek Chub	N	G	N	T	72	144.00	12.54			
Redfin Shiner	N	I	N		18	36.00	3.14			
Striped Shiner	N	I	S		56	112.00	9.76			
Silverjaw Minnow	N	I	M		7	14.00	1.22			
Bluntnose Minnow	N	O	C	T	58	116.00	10.10			
Central Stoneroller	N	H	N		73	146.00	12.72			
Yellow Bullhead		I	C	T	1	2.00	0.17			
Black Bullhead		I	C	P	1	2.00	0.17			
Tadpole Madtom		I	C		2	4.00	0.35			
Blackstripe Topminnow		I	M		3	6.00	0.52			
Rock Bass	S	C	C		6	12.00	1.05			
Green Sunfish	S	I	C	T	84	168.00	14.63			
Bluegill Sunfish	S	I	C	P	8	16.00	1.39			
Longear Sunfish	S	I	C	M	2	4.00	0.35			
Blackside Darter	D	I	S		9	18.00	1.57			
Logperch	D	I	S	M	33	66.00	5.75			
Johnny Darter	D	I	C		5	10.00	0.87			
Greenside Darter	D	I	S	M	15	30.00	2.61			
Orangethroat Darter	D	I	S		1	2.00	0.17			
Mottled Sculpin		I	C		17	34.00	2.96			
<i>Mile Total</i>					574	1,148.00				
<i>Number of Species</i>					25					
<i>Number of Hybrids</i>					0					

River Code: 02-001	Stream: Scioto River	Sample Date: 2009
River Mile: 231.80	Location: dst. Madory Rd.	Date Range: 07/07/2009
Time Fished: 2988 sec	Drainage: 28.0 sq mi	Thru: 08/04/2009
Dist Fished: 0.30 km	Basin: Scioto River	No of Passes: 2
		Sampler Type: E

Species Name / ODNr status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Redfin Pickerel		P	M	P	2	2.00	0.32	0.05	0.31	24.50
Northern Hog Sucker	R	I	S	M	17	17.00	2.68	1.24	7.93	72.94
White Sucker	W	O	S	T	111	111.00	17.51	8.86	56.63	79.82
Golden Shiner	N	I	M	T	1	1.00	0.16	0.00	0.03	4.00
Western Blacknose Dace	N	G	S	T	4	4.00	0.63	0.01	0.04	1.33
Creek Chub	N	G	N	T	73	73.00	11.51	1.69	10.79	23.13
Striped Shiner	N	I	S		24	24.00	3.79	0.56	3.58	23.33
Sand Shiner	N	I	M	M	23	23.00	3.63	0.07	0.45	3.09
Silverjaw Minnow	N	I	M		7	7.00	1.10	0.03	0.20	4.43
Bluntnose Minnow	N	O	C	T	39	39.00	6.15	0.16	1.05	4.22
Central Stoneroller	N	H	N		32	32.00	5.05	0.61	3.89	19.00
Yellow Bullhead		I	C	T	1	1.00	0.16	0.09	0.58	90.00
Black Bullhead		I	C	P	6	6.00	0.95	0.21	1.34	35.00
Tadpole Madtom		I	C		1	1.00	0.16	0.01	0.07	11.00
Rock Bass	S	C	C		4	4.00	0.63	0.27	1.69	66.25
Green Sunfish	S	I	C	T	119	119.00	18.77	0.97	6.20	8.15
Blackside Darter	D	I	S		8	8.00	1.26	0.04	0.24	4.63
Logperch	D	I	S	M	3	3.00	0.47	0.02	0.13	7.00
Johnny Darter	D	I	C		9	9.00	1.42	0.01	0.09	1.56
Greenside Darter	D	I	S	M	13	13.00	2.05	0.06	0.38	4.62
Banded Darter	D	I	S	I	15	15.00	2.37	0.03	0.18	1.87
Rainbow Darter	D	I	S	M	3	3.00	0.47	0.01	0.03	1.67
Orangethroat Darter	D	I	S		6	6.00	0.95	0.01	0.06	1.50
Mottled Sculpin		I	C		113	113.00	17.82	0.64	4.11	5.69
<i>Mile Total</i>					634	634.00		15.64		
<i>Number of Species</i>					24					
<i>Number of Hybrids</i>					0					

Species List

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River Code: 02-001	Stream: Scioto River	Sample Date: 2009
River Mile: 226.30	Location: upst. Co. Rd. 130	Date Range: 07/07/2009
Time Fished: 3037 sec	Drainage: 49.0 sq mi	Thru: 08/03/2009
Dist Fished: 0.40 km	Basin: Scioto River	No of Passes: 2
		Sampler Type: D

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Redfin Pickerel		P	M	P	9	6.75	0.75	0.36	53.44
Golden Redhorse	R	I	S	M	15	11.25	1.25	1.18	104.70
Northern Hog Sucker	R	I	S	M	10	7.50	0.84	0.82	109.00
White Sucker	W	O	S	T	160	120.00	13.38	8.47	70.59
Spotted Sucker	R	I	S		1	0.75	0.08	0.19	250.00
Common Carp	G	O	M	T	11	8.25	0.92	17.40	2,109.09
Golden Shiner	N	I	M	T	7	5.25	0.59	0.05	10.00
Creek Chub	N	G	N	T	4	3.00	0.33	0.16	53.75
Redfin Shiner	N	I	N		257	192.75	21.49	0.49	2.55
Striped Shiner	N	I	S		57	42.75	4.77	0.93	21.63
Spotfin Shiner	N	I	M		26	19.50	2.17	0.13	6.42
Fathead Minnow	N	O	C	T	1	0.75	0.08	0.00	2.00
Bluntnose Minnow	N	O	C	T	110	82.50	9.20	0.39	4.73
Central Stoneroller	N	H	N		7	5.25	0.59	0.06	11.71
Channel Catfish	F		C		8	6.00	0.67	1.99	331.25
Yellow Bullhead		I	C	T	14	10.50	1.17	1.01	96.07
Black Bullhead		I	C	P	5	3.75	0.42	0.17	46.40
Stonecat Madtom		I	C	I	2	1.50	0.17	0.01	7.50
Tadpole Madtom		I	C		1	0.75	0.08	0.01	10.00
Blackstripe Topminnow		I	M		1	0.75	0.08	0.00	1.00
Brook Silverside		I	M	M	1	0.75	0.08	0.00	1.00
Rock Bass	S	C	C		17	12.75	1.42	0.40	31.25
Smallmouth Bass	F	C	C	M	2	1.50	0.17	0.45	300.00
Green Sunfish	S	I	C	T	253	189.75	21.15	2.72	14.33
Bluegill Sunfish	S	I	C	P	21	15.75	1.76	0.35	21.90
Longear Sunfish	S	I	C	M	134	100.50	11.20	2.03	20.17
Green Sf X Bluegill Sf					2	1.50	0.17	0.16	106.00
Blackside Darter	D	I	S		8	6.00	0.67	0.05	8.88
Logperch	D	I	S	M	10	7.50	0.84	0.10	13.20
Johnny Darter	D	I	C		2	1.50	0.17	0.00	1.50
Greenside Darter	D	I	S	M	19	14.25	1.59	0.05	3.37
Banded Darter	D	I	S	I	19	14.25	1.59	0.02	1.37
Rainbow Darter	D	I	S	M	2	1.50	0.17	0.00	2.00
<i>Mile Total</i>				1,196	897.00		40.14		
<i>Number of Species</i>				32					
<i>Number of Hybrids</i>				1					

Species List

River Code: 02-001	Stream: Scioto River	Sample Date: 2009
River Mile: 224.20	Location: Co. Rd. 65	Date Range: 07/07/2009
Time Fished: 2943 sec	Drainage: 62.0 sq mi	Thru: 08/03/2009
Dist Fished: 0.40 km	Basin: Scioto River	No of Passes: 2
		Sampler Type: D

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Redfin Pickerel		P	M	P	4	3.00	0.33	0.10	0.91	33.75
Golden Redhorse	R	I	S	M	2	1.50	0.17	0.14	1.22	90.50
White Sucker	W	O	S	T	57	42.75	4.75	1.09	9.73	25.44
Common Carp	G	O	M	T	8	6.00	0.67	5.65	50.49	940.88
Creek Chub	N	G	N	T	16	12.00	1.33	0.19	1.70	15.81
Redfin Shiner	N	I	N		42	31.50	3.50	0.12	1.10	3.88
Striped Shiner	N	I	S		5	3.75	0.42	0.03	0.29	8.60
Spotfin Shiner	N	I	M		191	143.25	15.92	0.43	3.86	3.01
Sand Shiner	N	I	M	M	61	45.75	5.08	0.09	0.77	1.89
Fathead Minnow	N	O	C	T	2	1.50	0.17	0.00	0.03	2.00
Bluntnose Minnow	N	O	C	T	311	233.25	25.92	0.51	4.54	2.18
Central Stoneroller	N	H	N		54	40.50	4.50	0.27	2.39	6.60
Channel Catfish	F		C		5	3.75	0.42	0.34	3.00	89.60
Yellow Bullhead		I	C	T	8	6.00	0.67	0.31	2.75	51.13
Black Bullhead		I	C	P	2	1.50	0.17	0.06	0.55	40.50
Stonecat Madtom		I	C	I	2	1.50	0.17	0.04	0.34	25.00
Tadpole Madtom		I	C		13	9.75	1.08	0.09	0.80	9.23
Blackstripe Topminnow		I	M		24	18.00	2.00	0.03	0.26	1.63
Rock Bass	S	C	C		9	6.75	0.75	0.39	3.49	57.78
Green Sunfish	S	I	C	T	295	221.25	24.58	0.99	8.84	4.47
Bluegill Sunfish	S	I	C	P	2	1.50	0.17	0.03	0.31	23.00
Longear Sunfish	S	I	C	M	40	30.00	3.33	0.18	1.59	5.94
Blackside Darter	D	I	S		13	9.75	1.08	0.06	0.51	5.85
Logperch	D	I	S	M	3	2.25	0.25	0.02	0.17	8.33
Johnny Darter	D	I	C		2	1.50	0.17	0.00	0.02	1.00
Greenside Darter	D	I	S	M	8	6.00	0.67	0.02	0.17	3.18
Banded Darter	D	I	S	I	21	15.75	1.75	0.02	0.22	1.56
<i>Mile Total</i>					1,200	900.00		11.18		
<i>Number of Species</i>					27					
<i>Number of Hybrids</i>					0					

Species List

River Code: 02-001	Stream: Scioto River	Sample Date: 2009
River Mile: 222.80	Location: 0.25 mi. dst. Co. Rd. 110	Date Range: 07/07/2009
Time Fished: 2209 sec	Drainage: 67.0 sq mi	Thru: 08/04/2009
Dist Fished: 0.40 km	Basin: Scioto River	No of Passes: 2
		Sampler Type: D

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Redfin Pickerel		P	M	P	9	6.75	1.38	0.20	1.10	29.78
Silver Redhorse	R	I	S	M	4	3.00	0.61	0.26	1.40	85.50
Golden Redhorse	R	I	S	M	11	8.25	1.68	0.56	3.04	67.27
Northern Hog Sucker	R	I	S	M	1	0.75	0.15	0.06	0.33	80.00
White Sucker	W	O	S	T	24	18.00	3.67	0.91	5.00	50.78
Common Carp	G	O	M	T	14	10.50	2.14	12.42	68.01	1,182.86
Creek Chub	N	G	N	T	1	0.75	0.15	0.01	0.07	16.00
Redfin Shiner	N	I	N		28	21.00	4.28	0.05	0.25	2.21
Striped Shiner	N	I	S		16	12.00	2.45	0.24	1.33	20.22
Spotfin Shiner	N	I	M		115	86.25	17.58	0.20	1.11	2.34
Sand Shiner	N	I	M	M	55	41.25	8.41	0.08	0.45	1.98
Bluntnose Minnow	N	O	C	T	157	117.75	24.01	0.26	1.40	2.18
Central Stoneroller	N	H	N		25	18.75	3.82	0.10	0.52	5.09
Channel Catfish	F		C		15	11.25	2.29	1.14	6.22	101.00
Yellow Bullhead		I	C	T	2	1.50	0.31	0.10	0.55	66.50
Black Bullhead		I	C	P	1	0.75	0.15	0.04	0.22	53.00
Stonecat Madtom		I	C	I	4	3.00	0.61	0.01	0.06	3.50
Tadpole Madtom		I	C		1	0.75	0.15	0.03	0.16	39.00
Blackstripe Topminnow		I	M		9	6.75	1.38	0.01	0.07	1.78
Brook Silverside		I	M	M	1	0.75	0.15	0.01	0.04	10.00
Rock Bass	S	C	C		7	5.25	1.07	0.34	1.88	65.29
Smallmouth Bass	F	C	C	M	2	1.50	0.31	0.23	1.26	153.50
Green Sunfish	S	I	C	T	46	34.50	7.03	0.44	2.41	12.74
Bluegill Sunfish	S	I	C	P	1	0.75	0.15	0.00	0.02	6.00
Longear Sunfish	S	I	C	M	39	29.25	5.96	0.40	2.19	13.69
Blackside Darter	D	I	S		14	10.50	2.14	0.03	0.19	3.21
Logperch	D	I	S	M	9	6.75	1.38	0.09	0.51	13.78
Johnny Darter	D	I	C		2	1.50	0.31	0.00	0.01	1.00
Greenside Darter	D	I	S	M	21	15.75	3.21	0.02	0.11	1.33
Banded Darter	D	I	S	I	15	11.25	2.29	0.01	0.05	0.87
Orangethroat Darter	D	I	S		5	3.75	0.76	0.01	0.05	2.20
<i>Mile Total</i>					654	490.50		18.26		
<i>Number of Species</i>					31					
<i>Number of Hybrids</i>					0					

River Code: 02-001	Stream: Scioto River	Sample Date: 2009
River Mile: 216.60	Location: Co. Rd. 106	Date Range: 07/14/2009
Time Fished: 1906 sec	Drainage: 117.0 sq mi	Thru: 08/04/2009
Dist Fished: 0.40 km	Basin: Scioto River	Sampler Type: D
	No of Passes: 2	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight	
Redfin Pickerel		P	M	P	2	1.50	0.49	0.04	0.13	26.50
Quillback	C	O	M		2	1.50	0.49	0.06	0.18	38.50
Silver Redhorse	R	I	S	M	17	12.75	4.16	5.84	18.44	457.94
Golden Redhorse	R	I	S	M	28	21.00	6.85	3.67	11.60	174.96
Northern Hog Sucker	R	I	S	M	2	1.50	0.49	0.10	0.31	66.00
White Sucker	W	O	S	T	39	29.25	9.54	1.94	6.12	66.23
Spotted Sucker	R	I	S		1	0.75	0.24	0.04	0.13	55.00
Common Carp	G	O	M	T	7	5.25	1.71	9.45	29.84	1,800.00
Redfin Shiner	N	I	N		11	8.25	2.69	0.02	0.05	1.82
Striped Shiner	N	I	S		3	2.25	0.73	0.04	0.13	18.33
Spotfin Shiner	N	I	M		55	41.25	13.45	0.24	0.75	5.76
Sand Shiner	N	I	M	M	10	7.50	2.44	0.02	0.06	2.70
Fathead Minnow	N	O	C	T	1	0.75	0.24	0.00	0.00	1.00
Bluntnose Minnow	N	O	C	T	55	41.25	13.45	0.09	0.29	2.25
Channel Catfish	F		C		26	19.50	6.36	7.87	24.85	403.46
Yellow Bullhead		I	C	T	6	4.50	1.47	0.44	1.38	97.00
Rock Bass	S	C	C		11	8.25	2.69	0.51	1.62	62.27
Smallmouth Bass	F	C	C	M	5	3.75	1.22	0.35	1.10	93.00
Green Sunfish	S	I	C	T	67	50.25	16.38	0.59	1.86	11.71
Bluegill Sunfish	S	I	C	P	2	1.50	0.49	0.04	0.12	24.50
Longear Sunfish	S	I	C	M	17	12.75	4.16	0.16	0.51	12.53
Pumpkinseed Sunfish	S	I	C	P	1	0.75	0.24	0.02	0.06	25.00
Blackside Darter	D	I	S		17	12.75	4.16	0.05	0.17	4.18
Logperch	D	I	S	M	8	6.00	1.96	0.07	0.22	11.38
Johnny Darter	D	I	C		8	6.00	1.96	0.01	0.03	1.38
Greenside Darter	D	I	S	M	7	5.25	1.71	0.02	0.06	3.29
Banded Darter	D	I	S	I	1	0.75	0.24	0.00	0.00	2.00
Mile Total					409	306.75		31.66		
Number of Species					27					
Number of Hybrids					0					

River Code: 02-001	Stream: Scioto River	Sample Date: 2009
River Mile: 211.50	Location: upst. Kenton WWTP	Date Range: 07/13/2009
Time Fished: 2027 sec	Drainage: 162.0 sq mi	Thru: 08/04/2009
Dist Fished: 0.40 km	Basin: Scioto River	No of Passes: 2
		Sampler Type: D

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Golden Redhorse	R	I	S	M	3	2.25	3.66	1.35	13.72	600.00
White Sucker	W	O	S	T	16	12.00	19.51	0.07	0.73	5.94
Common Carp	G	O	M	T	3	2.25	3.66	4.20	42.73	1,868.33
Creek Chub	N	G	N	T	2	1.50	2.44	0.02	0.15	10.00
Redfin Shiner	N	I	N		1	0.75	1.22	0.00	0.03	3.00
Sand Shiner	N	I	M	M	26	19.50	31.71	0.02	0.23	1.15
Bluntnose Minnow	N	O	C	T	6	4.50	7.32	0.02	0.16	3.50
Channel Catfish	F		C		3	2.25	3.66	3.90	39.64	1,733.33
Yellow Bullhead		I	C	T	3	2.25	3.66	0.09	0.88	38.67
Blackstripe Topminnow		I	M		1	0.75	1.22	0.00	0.02	2.00
Rock Bass	S	C	C		1	0.75	1.22	0.00	0.01	1.00
Green Sunfish	S	I	C	T	16	12.00	19.51	0.17	1.68	13.75
Longear Sunfish	S	I	C	M	1	0.75	1.22	0.00	0.04	5.00
<i>Mile Total</i>					82	61.50		9.84		
<i>Number of Species</i>					13					
<i>Number of Hybrids</i>					0					

River Code: 02-001	Stream: Scioto River	Sample Date: 2011
River Mile: 211.50	Location: upst. Kenton WWTP	Date Range: 07/05/2011
Time Fished: 1800 sec	Drainage: 162.0 sq mi	
Dist Fished: 0.20 km	Basin: Scioto River	No of Passes: 1
		Sampler Type: D

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Redfin Pickerel		P	M	P	3	4.50	0.81	0.09	1.54	20.67
Golden Redhorse	R	I	S	M	7	10.50	1.88	0.41	6.77	39.00
Northern Hog Sucker	R	I	S	M	2	3.00	0.54	0.04	0.58	11.50
White Sucker	W	O	S	T	17	25.50	4.57	0.67	11.14	26.41
Common Carp	G	O	M	T	1	1.50	0.27	0.15	2.51	101.00
Creek Chub	N	G	N	T	2	3.00	0.54	0.08	1.29	26.00
Redfin Shiner	N	I	N		5	7.50	1.34	0.02	0.30	2.40
Striped Shiner	N	I	S		2	3.00	0.54	0.02	0.38	7.50
Spotfin Shiner	N	I	M		8	12.00	2.15	0.03	0.50	2.50
Sand Shiner	N	I	M	M	34	51.00	9.14	0.04	0.73	0.85
Bluntnose Minnow	N	O	C	T	113	169.50	30.38	0.41	6.81	2.43
Channel Catfish	F		C		1	1.50	0.27	0.03	0.48	19.00
Yellow Bullhead		I	C	T	7	10.50	1.88	0.54	8.87	51.14
Blackstripe Topminnow		I	M		1	1.50	0.27	0.00	0.05	2.00
Rock Bass	S	C	C		23	34.50	6.18	1.23	20.37	35.74
Largemouth Bass	F	C	C		1	1.50	0.27	0.02	0.28	11.00
Green Sunfish	S	I	C	T	29	43.50	7.80	0.91	15.10	21.00
Bluegill Sunfish	S	I	C	P	4	6.00	1.08	0.01	0.23	2.25
Longear Sunfish	S	I	C	M	72	108.00	19.35	1.05	17.35	9.72
Green Sf X Bluegill Sf					1	1.50	0.27	0.02	0.25	10.00
Blackside Darter	D	I	S		6	9.00	1.61	0.04	0.58	3.83
Logperch	D	I	S	M	6	9.00	1.61	0.12	1.93	13.00
Johnny Darter	D	I	C		8	12.00	2.15	0.04	0.66	3.33
Greenside Darter	D	I	S	M	12	18.00	3.23	0.06	1.04	3.50
Banded Darter	D	I	S	I	6	9.00	1.61	0.02	0.30	2.00
Rainbow Darter	D	I	S	M	1	1.50	0.27	0.00	0.05	2.00
<i>Mile Total</i>					372	558.00		6.05		
<i>Number of Species</i>					25					
<i>Number of Hybrids</i>					1					

River Code: 02-001	Stream: Scioto River	Sample Date: 2009
River Mile: 210.10	Location: Co. Rd. 175	Date Range: 07/13/2009
Time Fished: 2362 sec	Drainage: 170.0 sq mi	Thru: 08/06/2009
Dist Fished: 0.40 km	Basin: Scioto River	No of Passes: 2
		Sampler Type: D

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
White Sucker	W	O	S	T	5	3.75	0.84	0.03	1.11	8.40
Common Carp	G	O	M	T	19	14.25	3.19	0.05	1.58	3.16
Creek Chub	N	G	N	T	18	13.50	3.02	0.04	1.41	2.94
Redfin Shiner	N	I	N		2	1.50	0.34	0.00	0.11	2.00
Striped Shiner	N	I	S		37	27.75	6.21	0.06	1.99	2.03
Spotfin Shiner	N	I	M		132	99.00	22.15	0.57	19.99	5.74
Sand Shiner	N	I	M	M	28	21.00	4.70	0.04	1.44	1.93
Fathead Minnow	N	O	C	T	1	0.75	0.17	0.00	0.04	1.00
Bluntnose Minnow	N	O	C	T	30	22.50	5.03	0.06	2.11	2.67
Central Stoneroller	N	H	N		220	165.00	36.91	0.86	30.12	5.19
Channel Catfish	F		C		1	0.75	0.17	0.01	0.32	12.00
Stonecat Madtom		I	C	I	1	0.75	0.17	0.01	0.40	15.00
Blackstripe Topminnow		I	M		1	0.75	0.17	0.00	0.04	1.00
Rock Bass	S	C	C		2	1.50	0.34	0.12	4.36	82.50
Largemouth Bass	F	C	C		1	0.75	0.17	0.10	3.48	132.00
Green Sunfish	S	I	C	T	44	33.00	7.38	0.61	21.36	18.41
Bluegill Sunfish	S	I	C	P	1	0.75	0.17	0.02	0.84	32.00
Longear Sunfish	S	I	C	M	2	1.50	0.34	0.03	1.20	22.50
Green Sf X Bluegill Sf					6	4.50	1.01	0.19	6.59	41.67
Johnny Darter	D	I	C		3	2.25	0.50	0.00	0.14	1.67
Greenside Darter	D	I	S	M	7	5.25	1.17	0.02	0.53	2.86
Banded Darter	D	I	S	I	27	20.25	4.53	0.01	0.39	0.54
Rainbow Darter	D	I	S	M	2	1.50	0.34	0.00	0.09	1.50
Orangethroat Darter	D	I	S		2	1.50	0.34	0.00	0.09	1.50
Fantail Darter	D	I	C		4	3.00	0.67	0.01	0.40	3.75
<i>Mile Total</i>					596	447.00		2.84		
<i>Number of Species</i>					24					
<i>Number of Hybrids</i>					1					

Species List

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River Code: 02-001	Stream: Scioto River	Sample Date: 2011
River Mile: 210.10	Location: Co. Rd. 175	Date Range: 07/05/2011
Time Fished: 1800 sec	Drainage: 170.0 sq mi	
Dist Fished: 0.20 km	Basin: Scioto River	No of Passes: 1
		Sampler Type: D

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Redfin Pickerel		P	M	P	1	1.50	0.08	0.12	0.47	78.00
Golden Redhorse	R	I	S	M	10	15.00	0.77	1.42	5.69	94.50
Northern Hog Sucker	R	I	S	M	18	27.00	1.39	2.13	8.54	78.82
White Sucker	W	O	S	T	19	28.50	1.47	1.95	7.84	68.57
Creek Chub	N	G	N	T	18	27.00	1.39	0.40	1.61	14.88
Redfin Shiner	N	I	N		7	10.50	0.54	0.04	0.16	3.86
Striped Shiner	N	I	S		99	148.50	7.66	2.33	9.36	15.69
Spotfin Shiner	N	I	M		70	105.00	5.42	0.49	1.95	4.61
Sand Shiner	N	I	M	M	270	405.00	20.90	0.90	3.59	2.21
Bluntnose Minnow	N	O	C	T	364	546.00	28.17	1.70	6.82	3.11
Central Stoneroller	N	H	N		127	190.50	9.83	2.48	9.93	12.99
Channel Catfish	F		C		5	7.50	0.39	5.72	22.96	762.80
Yellow Bullhead		I	C	T	3	4.50	0.23	0.32	1.27	70.33
Stonecat Madtom		I	C	I	1	1.50	0.08	0.02	0.07	11.00
White Crappie	S	I	C		4	6.00	0.31	0.53	2.12	88.00
Rock Bass	S	C	C		17	25.50	1.32	1.18	4.73	46.25
Smallmouth Bass	F	C	C	M	4	6.00	0.31	0.14	0.55	23.00
Green Sunfish	S	I	C	T	11	16.50	0.85	0.25	1.01	15.30
Bluegill Sunfish	S	I	C	P	13	19.50	1.01	0.25	1.01	12.92
Longear Sunfish	S	I	C	M	64	96.00	4.95	1.68	6.73	17.47
Green Sf X Bluegill Sf					4	6.00	0.31	0.31	1.25	51.75
Blackside Darter	D	I	S		1	1.50	0.08	0.01	0.05	8.00
Logperch	D	I	S	M	4	6.00	0.31	0.08	0.30	12.50
Johnny Darter	D	I	C		6	9.00	0.46	0.02	0.06	1.67
Greenside Darter	D	I	S	M	71	106.50	5.50	0.32	1.28	2.99
Banded Darter	D	I	S	I	78	117.00	6.04	0.15	0.60	1.28
Rainbow Darter	D	I	S	M	2	3.00	0.15	0.01	0.02	2.00
Fantail Darter	D	I	C		1	1.50	0.08	0.00	0.01	2.00
<i>Mile Total</i>					1,292	1,938.00		24.91		
<i>Number of Species</i>					27					
<i>Number of Hybrids</i>					1					

River Code: 02-001	Stream: Scioto River	Sample Date: 2009
River Mile: 207.30	Location: Twp. Rd. 199	Date Range: 07/14/2009
Time Fished: 2021 sec	Drainage: 178.0 sq mi	Thru: 08/06/2009
Dist Fished: 0.40 km	Basin: Scioto River	No of Passes: 2
		Sampler Type: D

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Northern Hog Sucker	R	I	S	M	1	0.75	0.45	0.01	0.63	10.00
White Sucker	W	O	S	T	5	3.75	2.25	0.02	2.02	6.40
Common Carp	G	O	M	T	1	0.75	0.45	0.01	0.46	7.00
Creek Chub	N	G	N	T	1	0.75	0.45	0.00	0.25	4.00
Redfin Shiner	N	I	N		5	3.75	2.25	0.01	0.76	2.40
Spotfin Shiner	N	I	M		10	7.50	4.50	0.03	2.23	3.50
Sand Shiner	N	I	M	M	7	5.25	3.15	0.01	1.05	2.29
Bluntnose Minnow	N	O	C	T	44	33.00	19.82	0.05	4.16	1.50
Central Stoneroller	N	H	N		3	2.25	1.35	0.00	0.38	2.00
Stonecat Madtom		I	C	I	5	3.75	2.25	0.12	10.33	32.80
Rock Bass	S	C	C		6	4.50	2.70	0.17	14.44	38.17
Smallmouth Bass	F	C	C	M	2	1.50	0.90	0.17	14.19	112.50
Green Sunfish	S	I	C	T	26	19.50	11.71	0.26	21.91	13.39
Longear Sunfish	S	I	C	M	10	7.50	4.50	0.17	13.85	22.00
Johnny Darter	D	I	C		31	23.25	13.96	0.03	2.81	1.43
Greenside Darter	D	I	S	M	28	21.00	12.61	0.06	5.00	2.82
Banded Darter	D	I	S	I	13	9.75	5.86	0.02	1.55	1.85
Rainbow Darter	D	I	S	M	10	7.50	4.50	0.02	1.89	3.00
Fantail Darter	D	I	C		14	10.50	6.31	0.03	2.35	2.64
<i>Mile Total</i>					222	166.50		1.19		
<i>Number of Species</i>					19					
<i>Number of Hybrids</i>					0					

River Code: 02-001	Stream: Scioto River	Sample Date: 2011
River Mile: 207.30	Location: Twp. Rd. 199	Date Range: 07/08/2011
Time Fished: 1800 sec	Drainage: 178.0 sq mi	
Dist Fished: 0.20 km	Basin: Scioto River	No of Passes: 1
		Sampler Type: D

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Redfin Pickerel		P	M	P	3	4.50	0.45	0.26	0.55	57.33
Northern Hog Sucker	R	I	S	M	52	78.00	7.77	10.35	22.08	132.69
White Sucker	W	O	S	T	64	96.00	9.57	4.38	9.35	45.64
Common Carp	G	O	M	T	3	4.50	0.45	11.15	23.78	2,476.67
Creek Chub	N	G	N	T	12	18.00	1.79	0.61	1.30	33.82
Redfin Shiner	N	I	N		23	34.50	3.44	0.08	0.17	2.32
Striped Shiner	N	I	S		17	25.50	2.54	0.62	1.31	24.12
Spotfin Shiner	N	I	M		87	130.50	13.00	0.30	0.65	2.32
Sand Shiner	N	I	M	M	18	27.00	2.69	0.05	0.10	1.77
Bluntnose Minnow	N	O	C	T	49	73.50	7.32	0.20	0.42	2.65
Central Stoneroller	N	H	N		71	106.50	10.61	0.81	1.72	7.57
Channel Catfish	F		C		14	21.00	2.09	8.86	18.91	421.93
Yellow Bullhead		I	C	T	2	3.00	0.30	0.12	0.26	40.00
Stonecat Madtom		I	C	I	7	10.50	1.05	0.18	0.39	17.29
White Crappie	S	I	C		1	1.50	0.15	0.16	0.35	108.00
Rock Bass	S	C	C		45	67.50	6.73	4.38	9.35	64.93
Smallmouth Bass	F	C	C	M	4	6.00	0.60	2.19	4.67	365.00
Green Sunfish	S	I	C	T	12	18.00	1.79	0.31	0.67	17.42
Bluegill Sunfish	S	I	C	P	16	24.00	2.39	0.15	0.33	6.38
Longear Sunfish	S	I	C	M	48	72.00	7.17	1.10	2.35	15.32
Blackside Darter	D	I	S		3	4.50	0.45	0.02	0.03	3.33
Logperch	D	I	S	M	8	12.00	1.20	0.17	0.35	13.75
Johnny Darter	D	I	C		1	1.50	0.15	0.00	0.01	2.00
Greenside Darter	D	I	S	M	33	49.50	4.93	0.23	0.48	4.55
Banded Darter	D	I	S	I	41	61.50	6.13	0.09	0.19	1.45
Rainbow Darter	D	I	S	M	11	16.50	1.64	0.05	0.10	2.91
Fantail Darter	D	I	C		24	36.00	3.59	0.07	0.14	1.79
<i>Mile Total</i>					669	1,003.50		46.87		
<i>Number of Species</i>					27					
<i>Number of Hybrids</i>					0					

Species List

River Code: 02-001	Stream: Scioto River	Sample Date: 2009
River Mile: 203.40	Location: Co. Rd. 227	Date Range: 07/14/2009
Time Fished: 2677 sec	Drainage: 223.0 sq mi	Thru: 08/04/2009
Dist Fished: 0.40 km	Basin: Scioto River	No of Passes: 2
		Sampler Type: D

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Golden Redhorse	R	I	S	M	2	1.50	0.42	0.18	4.81	120.00
Northern Hog Sucker	R	I	S	M	2	1.50	0.42	0.01	0.28	7.00
White Sucker	W	O	S	T	2	1.50	0.42	0.01	0.20	5.00
Redfin Shiner	N	I	N		7	5.25	1.46	0.01	0.28	2.00
Spotfin Shiner	N	I	M		58	43.50	12.13	0.17	4.65	4.00
Sand Shiner	N	I	M	M	42	31.50	8.79	0.08	2.07	2.46
Silverjaw Minnow	N	I	M		8	6.00	1.67	0.02	0.40	2.50
Bluntnose Minnow	N	O	C	T	89	66.75	18.62	0.14	3.72	2.08
Central Stoneroller	N	H	N		7	5.25	1.46	0.01	0.31	2.14
Yellow Bullhead		I	C	T	7	5.25	1.46	0.33	8.82	62.86
Stonecat Madtom		I	C	I	5	3.75	1.05	0.12	3.07	30.60
Rock Bass	S	C	C		23	17.25	4.81	0.85	22.70	49.22
Smallmouth Bass	F	C	C	M	8	6.00	1.67	0.61	16.20	101.00
Green Sunfish	S	I	C	T	95	71.25	19.87	0.89	23.76	12.47
Longear Sunfish	S	I	C	M	12	9.00	2.51	0.13	3.41	14.17
Blackside Darter	D	I	S		1	0.75	0.21	0.01	0.28	14.00
Logperch	D	I	S	M	3	2.25	0.63	0.02	0.40	6.67
Johnny Darter	D	I	C		20	15.00	4.18	0.02	0.51	1.25
Greenside Darter	D	I	S	M	38	28.50	7.95	0.11	2.82	3.68
Banded Darter	D	I	S	I	37	27.75	7.74	0.03	0.84	1.12
Rainbow Darter	D	I	S	M	8	6.00	1.67	0.01	0.31	1.88
Fantail Darter	D	I	C		4	3.00	0.84	0.01	0.20	2.50
<i>Mile Total</i>					478	358.50		3.74		
<i>Number of Species</i>					22					
<i>Number of Hybrids</i>					0					

River Code: 02-001	Stream: Scioto River	Sample Date: 2011
River Mile: 203.40	Location: Co. Rd. 227	Date Range: 06/30/2011
Time Fished: 1800 sec	Drainage: 223.0 sq mi	
Dist Fished: 0.20 km	Basin: Scioto River	No of Passes: 1
		Sampler Type: D

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Redfin Pickerel		P	M	P	2	3.00	0.51	0.03	0.11	10.50
Golden Redhorse	R	I	S	M	9	13.50	2.29	0.90	3.15	66.67
Northern Hog Sucker	R	I	S	M	9	13.50	2.29	1.50	5.25	111.11
White Sucker	W	O	S	T	7	10.50	1.78	0.50	1.74	47.29
Common Carp	G	O	M	T	3	4.50	0.76	12.45	43.53	2,766.67
Scarlet Shiner	N	I	S	M	5	7.50	1.27	0.02	0.06	2.40
Spotfin Shiner	N	I	M		30	45.00	7.63	0.12	0.40	2.55
Sand Shiner	N	I	M	M	56	84.00	14.25	0.15	0.51	1.75
Bluntnose Minnow	N	O	C	T	44	66.00	11.20	0.25	0.86	3.73
Channel Catfish	F		C		6	9.00	1.53	7.98	27.90	886.67
Tadpole Madtom		I	C		1	1.50	0.25	0.02	0.06	12.00
White Crappie	S	I	C		2	3.00	0.51	0.27	0.93	89.00
Rock Bass	S	C	C		19	28.50	4.83	0.90	3.15	31.58
Green Sunfish	S	I	C	T	49	73.50	12.47	1.36	4.74	18.45
Bluegill Sunfish	S	I	C	P	56	84.00	14.25	0.60	2.10	7.14
Orangespotted Sunfish	S	I	C		3	4.50	0.76	0.04	0.13	8.50
Longear Sunfish	S	I	C	M	46	69.00	11.70	1.26	4.41	18.26
Blackside Darter	D	I	S		2	3.00	0.51	0.03	0.09	9.00
Logperch	D	I	S	M	2	3.00	0.51	0.06	0.21	20.00
Johnny Darter	D	I	C		1	1.50	0.25	0.00	0.01	2.00
Greenside Darter	D	I	S	M	20	30.00	5.09	0.13	0.46	4.37
Banded Darter	D	I	S	I	11	16.50	2.80	0.03	0.10	1.82
Rainbow Darter	D	I	S	M	9	13.50	2.29	0.02	0.07	1.56
Fantail Darter	D	I	C		1	1.50	0.25	0.00	0.01	2.00
<i>Mile Total</i>					393	589.50		28.60		
<i>Number of Species</i>					24					
<i>Number of Hybrids</i>					0					

River Code: 02-001	Stream: Scioto River	Sample Date: 2009
River Mile: 196.20	Location: St. Rt. 37	Date Range: 06/23/2009
Time Fished: 4760 sec	Drainage: 258.0 sq mi	Thru: 08/18/2009
Dist Fished: 1.00 km	Basin: Scioto River	No of Passes: 2
		Sampler Type: A

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Northern Pike	F	P	M		1	1.00	0.47	1.83	2.87	1,825.00
Silver Redhorse	R	I	S	M	16	16.00	7.51	20.26	31.91	1,266.13
Golden Redhorse	R	I	S	M	9	9.00	4.23	2.92	4.60	324.67
White Sucker	W	O	S	T	6	6.00	2.82	0.30	0.47	50.00
Spotted Sucker	R	I	S		5	5.00	2.35	0.54	0.85	108.00
Common Carp	G	O	M	T	18	18.00	8.45	30.16	47.51	1,675.56
Redfin Shiner	N	I	N		1	1.00	0.47	0.00	0.00	3.00
Spotfin Shiner	N	I	M		40	40.00	18.78	0.08	0.13	2.03
Bluntnose Minnow	N	O	C	T	5	5.00	2.35	0.01	0.01	1.80
Channel Catfish	F		C		6	6.00	2.82	4.20	6.61	699.17
Yellow Bullhead		I	C	T	1	1.00	0.47	0.03	0.05	30.00
Black Bullhead		I	C	P	3	3.00	1.41	0.42	0.66	140.00
Tadpole Madtom		I	C		1	1.00	0.47	0.00	0.00	2.00
White Crappie	S	I	C		2	2.00	0.94	0.31	0.48	152.50
Black Crappie	S	I	C		2	2.00	0.94	0.41	0.64	202.50
Rock Bass	S	C	C		4	4.00	1.88	0.79	1.25	198.00
Green Sunfish	S	I	C	T	56	56.00	26.29	0.84	1.32	14.95
Bluegill Sunfish	S	I	C	P	13	13.00	6.10	0.22	0.34	16.54
Orangespotted Sunfish	S	I	C		5	5.00	2.35	0.05	0.08	10.40
Longear Sunfish	S	I	C	M	12	12.00	5.63	0.04	0.07	3.58
Redear Sunfish	E	I	C		1	1.00	0.47	0.07	0.11	70.00
Logperch	D	I	S	M	1	1.00	0.47	0.01	0.01	9.00
Johnny Darter	D	I	C		5	5.00	2.35	0.01	0.01	1.80
<i>Mile Total</i>					213	213.00		63.48		
<i>Number of Species</i>					23					
<i>Number of Hybrids</i>					0					

River Code: 02-001	Stream: Scioto River	Sample Date: 2011
River Mile: 196.20	Location: St. Rt. 37	Date Range: 07/09/2011
Time Fished: 4500 sec	Drainage: 258.0 sq mi	Thru: 08/18/2011
Dist Fished: 1.00 km	Basin: Scioto River	No of Passes: 2
		Sampler Type: A

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Gizzard Shad		O	M	8	8.00	2.82	2.63	3.19	328.75
Redfin Pickerel		P	M P	2	2.00	0.70	0.24	0.29	121.50
Northern Pike	F	P	M	1	1.00	0.35	0.80	0.97	800.00
Quillback	C	O	M	5	5.00	1.76	2.55	3.09	510.00
Silver Redhorse	R	I	S M	10	10.00	3.52	13.43	16.27	1,342.50
Golden Redhorse	R	I	S M	38	38.00	13.38	10.18	12.34	267.85
White Sucker	W	O	S T	5	5.00	1.76	1.12	1.36	224.40
Spotted Sucker	R	I	S	15	15.00	5.28	3.30	4.00	220.00
Common Carp	G	O	M T	23	23.00	8.10	38.40	46.55	1,669.57
Redfin Shiner	N	I	N	1	1.00	0.35	0.00	0.00	2.00
Spotfin Shiner	N	I	M	18	18.00	6.34	0.06	0.08	3.56
Bluntnose Minnow	N	O	C T	5	5.00	1.76	0.01	0.01	1.60
Channel Catfish	F		C	2	2.00	0.70	2.50	3.03	1,250.00
Yellow Bullhead		I	C T	1	1.00	0.35	0.07	0.08	65.00
White Crappie	S	I	C	18	18.00	6.34	2.82	3.42	156.72
Black Crappie	S	I	C	2	2.00	0.70	0.26	0.32	130.50
Rock Bass	S	C	C	2	2.00	0.70	0.15	0.18	75.00
Smallmouth Bass	F	C	C M	3	3.00	1.06	1.10	1.33	366.67
Green Sunfish	S	I	C T	77	77.00	27.11	1.82	2.21	23.64
Bluegill Sunfish	S	I	C P	36	36.00	12.68	0.80	0.97	22.19
Orangespotted Sunfish	S	I	C	8	8.00	2.82	0.14	0.17	17.50
Longear Sunfish	S	I	C M	1	1.00	0.35	0.01	0.02	14.00
Green Sf X Bluegill Sf				2	2.00	0.70	0.10	0.12	48.00
Blackside Darter	D	I	S	1	1.00	0.35	0.00	0.00	2.00
<i>Mile Total</i>				284	284.00		82.49		
<i>Number of Species</i>				23					
<i>Number of Hybrids</i>				1					

River Code: 02-001	Stream: Scioto River	Sample Date: 2009
River Mile: 192.20	Location: Schotte Rd.	Date Range: 06/30/2009
Time Fished: 5508 sec	Drainage: 262.0 sq mi	Thru: 08/10/2009
Dist Fished: 0.40 km	Basin: Scioto River	No of Passes: 2
		Sampler Type: D

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Redfin Pickerel		P	M	P	1	0.75	0.25	0.02	0.05	21.00
Silver Redhorse	R	I	S	M	6	4.50	1.50	4.72	15.11	1,049.67
Golden Redhorse	R	I	S	M	27	20.25	6.77	5.57	17.83	275.22
Northern Hog Sucker	R	I	S	M	7	5.25	1.75	0.50	1.58	94.29
White Sucker	W	O	S	T	11	8.25	2.76	0.34	1.08	41.00
Common Carp	G	O	M	T	15	11.25	3.76	7.50	23.99	666.80
Creek Chub	N	G	N	T	3	2.25	0.75	0.01	0.05	6.33
Redfin Shiner	N	I	N		5	3.75	1.25	0.01	0.03	2.20
Spotfin Shiner	N	I	M		106	79.50	26.57	0.25	0.81	3.17
Sand Shiner	N	I	M	M	7	5.25	1.75	0.01	0.03	1.86
Bluntnose Minnow	N	O	C	T	52	39.00	13.03	0.18	0.59	4.72
Channel Catfish	F		C		18	13.50	4.51	8.66	27.71	641.72
Yellow Bullhead		I	C	T	7	5.25	1.75	0.63	2.02	120.00
Stonecat Madtom		I	C	I	3	2.25	0.75	0.12	0.37	51.67
Black Crappie	S	I	C		1	0.75	0.25	0.16	0.50	210.00
Rock Bass	S	C	C		4	3.00	1.00	0.46	1.46	152.50
Smallmouth Bass	F	C	C	M	6	4.50	1.50	0.87	2.78	193.00
Largemouth Bass	F	C	C		1	0.75	0.25	0.01	0.03	11.00
Green Sunfish	S	I	C	T	103	77.25	25.81	1.17	3.76	15.19
Bluegill Sunfish	S	I	C	P	1	0.75	0.25	0.00	0.00	2.00
Longear Sunfish	S	I	C	M	3	2.25	0.75	0.02	0.05	7.00
Blackside Darter	D	I	S		3	2.25	0.75	0.02	0.05	6.67
Logperch	D	I	S	M	2	1.50	0.50	0.02	0.07	13.50
Johnny Darter	D	I	C		3	2.25	0.75	0.00	0.01	1.67
Greenside Darter	D	I	S	M	3	2.25	0.75	0.02	0.05	6.67
Banded Darter	D	I	S	I	1	0.75	0.25	0.00	0.00	2.00
<i>Mile Total</i>					399	299.25		31.26		
<i>Number of Species</i>					26					
<i>Number of Hybrids</i>					0					

River Code: 02-001	Stream: Scioto River	Sample Date: 2011
River Mile: 192.20	Location: Schotte Rd.	Date Range: 07/08/2011
Time Fished: 2954 sec	Drainage: 262.0 sq mi	Thru: 08/18/2011
Dist Fished: 0.30 km	Basin: Scioto River	Sampler Type: D
	No of Passes: 2	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Redfin Pickerel		P	M	P	5	5.25	2.60	0.08	0.49	14.00
Northern Pike	F	P	M		1	0.75	0.37	0.07	0.41	90.00
Silver Redhorse	R	I	S	M	4	3.75	1.86	3.35	20.12	1,102.50
Golden Redhorse	R	I	S	M	10	7.50	3.72	2.79	16.75	372.00
Northern Hog Sucker	R	I	S	M	3	3.00	1.49	1.05	6.30	308.33
White Sucker	W	O	S	T	15	12.75	6.32	1.26	7.56	103.33
Common Carp	G	O	M	T	3	2.25	1.12	1.22	7.32	541.67
Golden Shiner	N	I	M	T	1	0.75	0.37	0.00	0.01	1.00
Striped Shiner	N	I	S		1	1.50	0.74	0.00	0.03	3.00
Spotfin Shiner	N	I	M		77	83.25	41.26	0.18	1.10	2.13
Sand Shiner	N	I	M	M	2	1.50	0.74	0.00	0.01	1.00
Bluntnose Minnow	N	O	C	T	13	14.25	7.06	0.08	0.50	4.62
Channel Catfish	F		C		7	6.00	2.97	5.64	33.86	922.86
Yellow Bullhead		I	C	T	2	1.50	0.74	0.05	0.31	34.50
Stonecat Madtom		I	C	I	2	1.50	0.74	0.01	0.07	7.50
Blackstripe Topminnow		I	M		1	1.50	0.74	0.00	0.02	2.00
White Crappie	S	I	C		1	0.75	0.37	0.06	0.36	80.00
Rock Bass	S	C	C		2	1.50	0.74	0.15	0.90	100.00
Green Sunfish	S	I	C	T	40	37.50	18.59	0.56	3.35	13.85
Bluegill Sunfish	S	I	C	P	4	3.00	1.49	0.05	0.32	17.50
Longear Sunfish	S	I	C	M	2	1.50	0.74	0.01	0.06	7.00
Blackside Darter	D	I	S		2	1.50	0.74	0.00	0.02	2.50
Johnny Darter	D	I	C		9	6.75	3.35	0.00	0.02	0.44
Greenside Darter	D	I	S	M	2	2.25	1.12	0.02	0.14	10.00
<i>Mile Total</i>					209	201.75		16.66		
<i>Number of Species</i>					24					
<i>Number of Hybrids</i>					0					

Species List

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River Code: 02-001	Stream: Scioto River	Sample Date: 2009
River Mile: 186.00	Location: Big Island wildlife area	Date Range: 06/23/2009
Time Fished: 5018 sec	Drainage: 379.0 sq mi	Thru: 08/17/2009
Dist Fished: 0.70 km	Basin: Scioto River	Sampler Type: A D
	No of Passes: 2	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Redfin Pickerel		P	M	P	1	1.00	0.43	0.00	0.00	3.00
Northern Pike	F	P	M		2	1.75	0.74	0.61	0.79	365.00
Quillback	C	O	M		3	2.75	1.17	2.06	2.68	710.00
Silver Redhorse	R	I	S	M	28	28.00	11.91	17.28	22.46	617.21
Golden Redhorse	R	I	S	M	6	4.50	1.91	0.17	0.22	37.00
Northern Hog Sucker	R	I	S	M	8	6.25	2.66	0.12	0.16	16.00
White Sucker	W	O	S	T	3	3.00	1.28	0.58	0.75	193.33
Spotted Sucker	R	I	S		20	16.50	7.02	1.41	1.84	86.10
Common Carp	G	O	M	T	28	24.75	10.53	44.70	58.10	1,771.39
Spotfin Shiner	N	I	M		17	14.25	6.06	0.05	0.07	3.36
Bluntnose Minnow	N	O	C	T	26	20.50	8.72	0.03	0.04	1.44
Channel Catfish	F		C		6	5.25	2.23	6.90	8.97	1,250.00
Yellow Bullhead		I	C	T	4	3.75	1.60	0.69	0.89	188.00
Black Bullhead		I	C	P	11	8.25	3.51	0.59	0.76	71.09
Tadpole Madtom		I	C		1	0.75	0.32	0.01	0.01	12.00
Blackstripe Topminnow		I	M		1	0.75	0.32	0.00	0.00	3.00
Black Crappie	S	I	C		1	0.75	0.32	0.01	0.01	10.00
Largemouth Bass	F	C	C		1	0.75	0.32	0.15	0.19	200.00
Green Sunfish	S	I	C	T	92	76.50	32.55	1.50	1.95	18.57
Bluegill Sunfish	S	I	C	P	1	0.75	0.32	0.04	0.05	53.00
Blackside Darter	D	I	S		5	3.75	1.60	0.02	0.02	4.00
Logperch	D	I	S	M	1	0.75	0.32	0.01	0.01	8.00
Johnny Darter	D	I	C		11	8.25	3.51	0.01	0.02	1.55
Greenside Darter	D	I	S	M	2	1.50	0.64	0.00	0.00	1.00
<i>Mile Total</i>					279	235.00		76.94		
<i>Number of Species</i>					24					
<i>Number of Hybrids</i>					0					

Species List

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River Code: 02-001	Stream: Scioto River	Sample Date: 2009
River Mile: 179.10	Location: adj. Green Camp Rd.	Date Range: 06/25/2009
Time Fished: 4531 sec	Drainage: 407.0 sq mi	Thru: 08/17/2009
Dist Fished: 0.70 km	Basin: Scioto River	No of Passes: 2
		Sampler Type: A D

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Redfin Pickerel		P	M	P	3	2.25	0.53	0.02	0.05	10.00
Northern Pike	F	P	M		5	5.00	1.18	0.35	0.75	70.00
Quillback	C	O	M		1	1.00	0.24	0.15	0.32	150.00
Silver Redhorse	R	I	S	M	6	4.75	1.12	7.51	16.12	1,574.83
Golden Redhorse	R	I	S	M	21	20.00	4.71	6.07	13.03	301.76
Northern Hog Sucker	R	I	S	M	12	11.25	2.65	1.22	2.61	104.00
White Sucker	W	O	S	T	5	5.00	1.18	1.00	2.15	200.00
Spotted Sucker	R	I	S		4	4.00	0.94	0.28	0.60	70.00
Common Carp	G	O	M	T	12	11.00	2.59	21.92	47.03	1,963.33
Redfin Shiner	N	I	N		10	8.25	1.94	0.02	0.04	2.06
Spotfin Shiner	N	I	M		74	62.25	14.67	0.22	0.48	3.43
Sand Shiner	N	I	M	M	18	14.00	3.30	0.02	0.05	1.73
Bluntnose Minnow	N	O	C	T	89	74.50	17.56	0.21	0.46	2.98
Central Stoneroller	N	H	N		1	0.75	0.18	0.00	0.01	4.00
Channel Catfish	F		C		2	1.75	0.41	0.86	1.85	525.00
Yellow Bullhead		I	C	T	2	1.75	0.41	0.57	1.23	290.00
Black Bullhead		I	C	P	1	1.00	0.24	0.17	0.37	172.00
Stonecat Madtom		I	C	I	7	5.25	1.24	0.05	0.10	8.86
Brindled Madtom		I	C	I	2	1.50	0.35	0.07	0.14	43.50
White Crappie	S	I	C		2	1.50	0.35	0.01	0.02	6.00
Rock Bass	S	C	C		18	15.50	3.65	2.98	6.39	184.89
Smallmouth Bass	F	C	C	M	3	2.50	0.59	1.15	2.47	400.00
Largemouth Bass	F	C	C		2	1.75	0.41	0.13	0.28	80.00
Green Sunfish	S	I	C	T	64	55.25	13.02	0.73	1.56	13.37
Bluegill Sunfish	S	I	C	P	1	0.75	0.18	0.01	0.02	11.00
Orangespotted Sunfish	S	I	C		5	4.00	0.94	0.05	0.10	11.60
Longear Sunfish	S	I	C	M	101	82.50	19.45	0.74	1.59	8.45
Blackside Darter	D	I	S		1	1.00	0.24	0.00	0.01	4.00
Logperch	D	I	S	M	2	1.75	0.41	0.03	0.06	17.00
Johnny Darter	D	I	C		19	14.25	3.36	0.02	0.05	1.68
Greenside Darter	D	I	S	M	6	5.25	1.24	0.03	0.07	6.00
Banded Darter	D	I	S	I	4	3.00	0.71	0.01	0.02	2.25
<i>Mile Total</i>					503	424.25		46.60		
<i>Number of Species</i>					32					
<i>Number of Hybrids</i>					0					

River Code: 02-001	Stream: Scioto River	Sample Date: 2009
River Mile: 174.20	Location: St. Rt. 4	Date Range: 08/11/2009
Time Fished: 2517 sec	Drainage: 530.0 sq mi	
Dist Fished: 0.50 km	Basin: Scioto River	No of Passes: 1
		Sampler Type: A

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Northern Pike	F	P	M		1	2.00	0.60	0.95	0.76	475.00
Silver Redhorse	R	I	S	M	6	12.00	3.61	15.30	12.23	1,274.60
Golden Redhorse	R	I	S	M	2	4.00	1.20	2.32	1.86	580.50
White Sucker	W	O	S	T	4	8.00	2.41	1.26	1.00	157.00
Spotted Sucker	R	I	S		4	8.00	2.41	2.90	2.32	362.25
Common Carp	G	O	M	T	27	54.00	16.27	96.84	77.44	1,793.33
Spotfin Shiner	N	I	M		2	4.00	1.20	0.01	0.01	2.00
Bluntnose Minnow	N	O	C	T	33	66.00	19.88	0.13	0.10	1.94
Yellow Bullhead		I	C	T	1	2.00	0.60	0.25	0.20	124.00
Black Bullhead		I	C	P	6	12.00	3.61	1.89	1.51	157.67
White Crappie	S	I	C		1	2.00	0.60	0.17	0.14	87.00
Rock Bass	S	C	C		5	10.00	3.01	1.17	0.94	117.20
Largemouth Bass	F	C	C		2	4.00	1.20	0.04	0.03	10.00
Green Sunfish	S	I	C	T	45	90.00	27.11	1.40	1.12	15.59
Bluegill Sunfish	S	I	C	P	1	2.00	0.60	0.10	0.08	50.00
Orangespotted Sunfish	S	I	C		17	34.00	10.24	0.19	0.16	5.71
Longear Sunfish	S	I	C	M	9	18.00	5.42	0.14	0.11	7.56
<i>Mile Total</i>					166	332.00		125.06		
<i>Number of Species</i>					17					
<i>Number of Hybrids</i>					0					

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River Code: 02-001	Stream: Scioto River	Sample Date: 2009
River Mile: 169.50	Location: upst. Hoskins Rd.	Date Range: 08/17/2009
Time Fished: 1718 sec	Drainage: 566.0 sq mi	
Dist Fished: 0.20 km	Basin: Scioto River	No of Passes: 1
		Sampler Type: D

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Gizzard Shad		O	M		85	127.50	18.36	2.35	4.32	18.45
Silver Redhorse	R	I	S	M	1	1.50	0.22	2.55	4.68	1,700.00
Golden Redhorse	R	I	S	M	15	22.50	3.24	5.25	9.64	233.33
Northern Hog Sucker	R	I	S	M	14	21.00	3.02	4.77	8.75	226.92
White Sucker	W	O	S	T	3	4.50	0.65	1.13	2.07	250.00
Common Carp	G	O	M	T	6	9.00	1.30	19.20	35.25	2,133.33
Spotfin Shiner	N	I	M		52	78.00	11.23	0.24	0.44	3.04
Sand Shiner	N	I	M	M	5	7.50	1.08	0.01	0.02	1.60
Bluntnose Minnow	N	O	C	T	163	244.50	35.21	0.42	0.78	1.73
Channel Catfish	F		C		8	12.00	1.73	5.11	9.38	425.75
Flathead Catfish	F	P	C		1	1.50	0.22	0.45	0.83	300.00
Stonecat Madtom		I	C	I	1	1.50	0.22	0.05	0.10	35.00
White Crappie	S	I	C		6	9.00	1.30	1.78	3.28	198.17
Black Crappie	S	I	C		2	3.00	0.43	0.60	1.10	200.00
Rock Bass	S	C	C		7	10.50	1.51	1.28	2.34	121.43
Smallmouth Bass	F	C	C	M	19	28.50	4.10	6.75	12.39	236.84
Green Sunfish	S	I	C	T	30	45.00	6.48	0.50	0.92	11.17
Bluegill Sunfish	S	I	C	P	7	10.50	1.51	0.57	1.05	54.29
Longear Sunfish	S	I	C	M	11	16.50	2.38	0.13	0.24	8.00
Green Sf X Bluegill Sf					1	1.50	0.22	0.02	0.03	11.00
Logperch	D	I	S	M	1	1.50	0.22	0.03	0.06	22.00
Johnny Darter	D	I	C		12	18.00	2.59	0.03	0.06	1.75
Greenside Darter	D	I	S	M	2	3.00	0.43	0.02	0.03	6.00
Banded Darter	D	I	S	I	5	7.50	1.08	0.02	0.03	2.20
Fantail Darter	D	I	C		4	6.00	0.86	0.01	0.01	1.33
Sauger X Walleye	E	P			2	3.00	0.43	1.20	2.20	400.00
<i>Mile Total</i>					463	694.50		54.46		
<i>Number of Species</i>					24					
<i>Number of Hybrids</i>					2					

Species List

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River Code: 02-001	Stream: Scioto River	Sample Date: 2009
River Mile: 163.80	Location: Mink St.	Date Range: 08/11/2009
Time Fished: 4226 sec	Drainage: 660.0 sq mi	Thru: 10/06/2009
Dist Fished: 1.00 km	Basin: Scioto River	No of Passes: 2
		Sampler Type: A

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight	
Gizzard Shad		O	M		234	234.00	20.56	9.91	7.01	42.36
Redfin Pickerel		P	M	P	1	1.00	0.09	0.03	0.02	25.00
Northern Pike	F	P	M		2	2.00	0.18	0.20	0.14	100.00
Silver Redhorse	R	I	S	M	6	6.00	0.53	7.88	5.57	1,313.67
Golden Redhorse	R	I	S	M	73	73.00	6.41	30.77	21.76	421.51
Northern Hog Sucker	R	I	S	M	73	73.00	6.41	20.15	14.25	276.02
White Sucker	W	O	S	T	12	12.00	1.05	3.84	2.72	320.33
Spotted Sucker	R	I	S		1	1.00	0.09	0.01	0.01	12.00
Common Carp	G	O	M	T	18	18.00	1.58	38.68	27.35	2,148.61
Golden Shiner	N	I	M	T	1	1.00	0.09	0.00	0.00	3.00
Silver Shiner	N	I	S	I	5	5.00	0.44	0.07	0.05	14.40
Spotfin Shiner	N	I	M		256	256.00	22.50	0.70	0.50	2.74
Sand Shiner	N	I	M	M	1	1.00	0.09	0.00	0.00	2.00
Bluntnose Minnow	N	O	C	T	231	231.00	20.30	0.60	0.42	2.58
Central Stoneroller	N	H	N		7	7.00	0.62	0.05	0.03	6.43
Channel Catfish	F		C		3	3.00	0.26	1.46	1.03	486.67
Stonecat Madtom		I	C	I	6	6.00	0.53	0.09	0.07	15.67
White Bass	F	P	M		1	1.00	0.09	0.01	0.01	12.00
White Crappie	S	I	C		2	2.00	0.18	0.20	0.14	97.50
Black Crappie	S	I	C		1	1.00	0.09	0.25	0.18	248.00
Rock Bass	S	C	C		20	20.00	1.76	2.35	1.66	117.46
Smallmouth Bass	F	C	C	M	78	78.00	6.85	21.34	15.09	273.62
Largemouth Bass	F	C	C		6	6.00	0.53	0.08	0.05	12.50
Green Sunfish	S	I	C	T	4	4.00	0.35	0.17	0.12	42.50
Bluegill Sunfish	S	I	C	P	2	2.00	0.18	0.19	0.13	94.00
Orangespotted Sunfish	S	I	C		2	2.00	0.18	0.02	0.01	9.00
Longear Sunfish	S	I	C	M	19	19.00	1.67	0.41	0.29	21.58
Pumpkinseed Sunfish	S	I	C	P	1	1.00	0.09	0.10	0.07	99.00
Logperch	D	I	S	M	20	20.00	1.76	0.24	0.17	12.10
Johnny Darter	D	I	C		8	8.00	0.70	0.02	0.01	2.00
Greenside Darter	D	I	S	M	33	33.00	2.90	0.11	0.08	3.22
Banded Darter	D	I	S	I	7	7.00	0.62	0.01	0.01	1.57
Fantail Darter	D	I	C		2	2.00	0.18	0.00	0.00	2.00
Sauger X Walleye	E	P			2	2.00	0.18	1.47	1.04	735.00
Mile Total				1,138	1,138.00		141.40			
Number of Species				33						
Number of Hybrids				1						

River Code: 02-001	Stream: Scioto River	Sample Date: 2009
River Mile: 157.10	Location: 1.7 mi. upst. Mill Creek adj. Klondike Rd.	Date Range: 08/12/2009
Time Fished: 1683 sec	Drainage: 764.0 sq mi	
Dist Fished: 0.50 km	Basin: Scioto River	No of Passes: 1
		Sampler Type: A

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Gizzard Shad		O	M		520	1,040.00	54.22	15.40	9.92	14.81
Silver Redhorse	R	I	S	M	2	4.00	0.21	4.02	2.59	1,004.00
Golden Redhorse	R	I	S	M	59	118.00	6.15	29.68	19.12	251.56
Northern Hog Sucker	R	I	S	M	60	120.00	6.26	32.22	20.75	268.52
Common Carp	G	O	M	T	4	8.00	0.42	19.80	12.75	2,475.00
Golden Shiner	N	I	M	T	2	4.00	0.21	0.06	0.04	14.00
Spotfin Shiner	N	I	M		82	164.00	8.55	0.65	0.42	3.96
Bluntnose Minnow	N	O	C	T	12	24.00	1.25	0.10	0.07	4.33
Central Stoneroller	N	H	N		4	8.00	0.42	0.08	0.05	10.00
Channel Catfish	F		C		23	46.00	2.40	11.67	7.51	253.64
Stonecat Madtom		I	C	I	1	2.00	0.10	0.09	0.06	44.00
White Crappie	S	I	C		1	2.00	0.10	0.02	0.01	10.00
Black Crappie	S	I	C		1	2.00	0.10	0.30	0.19	148.00
Rock Bass	S	C	C		22	44.00	2.29	2.94	1.89	66.71
Smallmouth Bass	F	C	C	M	34	68.00	3.55	17.89	11.53	263.13
Largemouth Bass	F	C	C		10	20.00	1.04	9.31	6.00	465.50
Green Sunfish	S	I	C	T	1	2.00	0.10	0.08	0.05	38.00
Bluegill Sunfish	S	I	C	P	71	142.00	7.40	9.82	6.33	69.16
Orangespotted Sunfish	S	I	C		2	4.00	0.21	0.06	0.04	15.00
Longear Sunfish	S	I	C	M	2	4.00	0.21	0.09	0.06	22.50
Green Sf X Bluegill Sf					1	2.00	0.10	0.29	0.19	144.00
Logperch	D	I	S	M	18	36.00	1.88	0.39	0.25	10.89
Johnny Darter	D	I	C		1	2.00	0.10	0.00	0.00	2.00
Greenside Darter	D	I	S	M	8	16.00	0.83	0.05	0.03	3.00
Banded Darter	D	I	S	I	13	26.00	1.36	0.08	0.05	3.15
Rainbow Darter	D	I	S	M	3	6.00	0.31	0.01	0.01	2.00
Sauger X Walleye	E	P			2	4.00	0.21	0.15	0.10	38.50
<i>Mile Total</i>					959	1,918.00		155.25		
<i>Number of Species</i>					25					
<i>Number of Hybrids</i>					2					

Species List

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River Code: 02-145	Stream: Fulton Creek	Sample Date: 2009
River Mile: 16.30	Location: Miller Rd.	Date Range: 07/30/2009
Time Fished: 1200 sec	Drainage: 12.5 sq mi	
Dist Fished: 0.15 km	Basin: Scioto River	No of Passes: 1
		Sampler Type: E

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Gizzard Shad		O	M		3	6.00	2.44			
Redfin Pickerel		P	M	P	5	10.00	4.07			
White Sucker	W	O	S	T	3	6.00	2.44			
Golden Shiner	N	I	M	T	77	154.00	62.60			
Creek Chub	N	G	N	T	1	2.00	0.81			
Redfin Shiner	N	I	N		2	4.00	1.63			
Striped Shiner	N	I	S		1	2.00	0.81			
Bluntnose Minnow	N	O	C	T	2	4.00	1.63			
Yellow Bullhead		I	C	T	3	6.00	2.44			
Black Bullhead		I	C	P	5	10.00	4.07			
Largemouth Bass	F	C	C		9	18.00	7.32			
Green Sunfish	S	I	C	T	8	16.00	6.50			
Bluegill Sunfish	S	I	C	P	4	8.00	3.25			
<i>Mile Total</i>					123	246.00				
<i>Number of Species</i>					13					
<i>Number of Hybrids</i>					0					

River Code: 02-145	Stream: Fulton Creek	Sample Date: 2009
River Mile: 10.40	Location: Kinney Pike	Date Range: 06/24/2009
Time Fished: 2202 sec	Drainage: 24.9 sq mi	Thru: 08/12/2009
Dist Fished: 0.30 km	Basin: Scioto River	No of Passes: 2
		Sampler Type: E

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Redfin Pickerel		P	M	P	10	10.00	1.29	0.17	4.29	17.20
White Sucker	W	O	S	T	10	10.00	1.29	0.02	0.52	2.11
Creek Chubsucker	R	I	M		4	4.00	0.52	0.07	1.79	18.00
Creek Chub	N	G	N	T	65	65.00	8.39	0.82	20.48	12.65
Redfin Shiner	N	I	N		40	40.00	5.16	0.08	1.99	2.00
Striped Shiner	N	I	S		26	26.00	3.35	0.27	6.76	10.45
Bluntnose Minnow	N	O	C	T	232	232.00	29.94	0.69	17.21	2.98
Central Stoneroller	N	H	N		119	119.00	15.35	0.46	11.51	3.88
Blackstripe Topminnow		I	M		1	1.00	0.13	0.00	0.10	4.00
Rock Bass	S	C	C		7	7.00	0.90	0.22	5.48	31.43
Largemouth Bass	F	C	C		5	5.00	0.65	0.03	0.75	6.00
Green Sunfish	S	I	C	T	12	12.00	1.55	0.11	2.72	9.09
Longear Sunfish	S	I	C	M	41	41.00	5.29	0.62	15.46	15.14
Blackside Darter	D	I	S		15	15.00	1.94	0.08	2.07	5.53
Johnny Darter	D	I	C		65	65.00	8.39	0.11	2.77	1.71
Greenside Darter	D	I	S	M	25	25.00	3.23	0.08	2.02	3.24
Rainbow Darter	D	I	S	M	69	69.00	8.90	0.12	2.90	1.69
Orangethroat Darter	D	I	S		4	4.00	0.52	0.01	0.15	1.50
Fantail Darter	D	I	C		25	25.00	3.23	0.04	1.01	1.62
<i>Mile Total</i>					775	775.00		4.01		
<i>Number of Species</i>					19					
<i>Number of Hybrids</i>					0					

Species List

River Code: 02-145	Stream: Fulton Creek	Sample Date: 2009
River Mile: 8.70	Location: at farm lane	Date Range: 06/24/2009
Time Fished: 2208 sec	Drainage: 29.0 sq mi	Thru: 08/12/2009
Dist Fished: 0.30 km	Basin: Scioto River	No of Passes: 2
		Sampler Type: E

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Redfin Pickerel		P	M	P	20	20.00	21.28	0.47	49.34	23.25
White Sucker	W	O	S	T	6	6.00	6.38	0.01	0.64	1.00
Redfin Shiner	N	I	N		1	1.00	1.06	0.00	0.11	1.00
Spotfin Shiner	N	I	M		2	2.00	2.13	0.00	0.21	1.00
Bluntnose Minnow	N	O	C	T	3	3.00	3.19	0.00	0.42	1.33
Blackstripe Topminnow		I	M		1	1.00	1.06	0.00	0.21	2.00
Green Sunfish	S	I	C	T	19	19.00	20.21	0.17	17.88	8.87
Longear Sunfish	S	I	C	M	8	8.00	8.51	0.19	19.63	23.13
Blackside Darter	D	I	S		6	6.00	6.38	0.03	3.40	5.33
Johnny Darter	D	I	C		5	5.00	5.32	0.01	0.64	1.20
Greenside Darter	D	I	S	M	4	4.00	4.26	0.03	3.08	7.25
Rainbow Darter	D	I	S	M	5	5.00	5.32	0.01	1.27	2.40
Orangethroat Darter	D	I	S		14	14.00	14.89	0.03	3.18	2.14
<i>Mile Total</i>					94	94.00		0.94		
<i>Number of Species</i>					13					
<i>Number of Hybrids</i>					0					

Species List

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River Code: 02-145	Stream: Fulton Creek	Sample Date: 2009
River Mile: 6.40	Location: adj. Fulton Creek Rd.	Date Range: 06/24/2009
Time Fished: 2249 sec	Drainage: 40.0 sq mi	Thru: 08/13/2009
Dist Fished: 0.35 km	Basin: Scioto River	Sampler Type: D
	No of Passes: 2	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Redfin Pickerel		P	M	P	24	22.75	27.25	0.40	40.29	17.50
White Sucker	W	O	S	T	1	1.00	1.20	0.02	2.10	21.00
Creek Chubsucker	R	I	M		1	1.00	1.20	0.00	0.10	1.00
Common Carp	G	O	M	T	1	1.00	1.20	0.04	4.10	41.00
Creek Chub	N	G	N	T	21	20.50	24.55	0.22	22.27	10.90
Redfin Shiner	N	I	N		1	1.00	1.20	0.00	0.10	1.00
Striped Shiner	N	I	S		3	3.00	3.59	0.00	0.30	1.00
Spotfin Shiner	N	I	M		2	2.00	2.40	0.01	1.20	6.00
Bluntnose Minnow	N	O	C	T	11	11.00	13.17	0.04	4.30	3.91
Largemouth Bass	F	C	C		4	3.50	4.19	0.02	2.45	6.25
Green Sunfish	S	I	C	T	12	9.75	11.68	0.22	21.87	23.42
Blackside Darter	D	I	S		2	2.00	2.40	0.00	0.30	1.50
Johnny Darter	D	I	C		3	3.00	3.59	0.00	0.30	1.00
Rainbow Darter	D	I	S	M	2	2.00	2.40	0.00	0.30	1.50
<i>Mile Total</i>					88	83.50		1.00		
<i>Number of Species</i>					14					
<i>Number of Hybrids</i>					0					

Species List

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River Code: 02-145	Stream: Fulton Creek	Sample Date: 2011
River Mile: 6.40	Location: adj. Fulton Creek Rd.	Date Range: 07/06/2011
Time Fished: 1800 sec	Drainage: 40.0 sq mi	
Dist Fished: 0.15 km	Basin: Scioto River	No of Passes: 1
		Sampler Type: E

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Redfin Pickerel		P	M	P	6	12.00	25.00	0.29	44.41	24.17
Creek Chub	N	G	N	T	2	4.00	8.33	0.16	24.50	40.00
Bluntnose Minnow	N	O	C	T	1	2.00	4.17	0.01	1.53	5.00
Rock Bass	S	C	C		1	2.00	4.17	0.10	14.70	48.00
Green Sunfish	S	I	C	T	3	6.00	12.50	0.06	8.88	9.67
Blackside Darter	D	I	S		1	2.00	4.17	0.01	1.84	6.00
Johnny Darter	D	I	C		8	16.00	33.33	0.02	2.91	1.17
Orangethroat Darter	D	I	S		2	4.00	8.33	0.01	1.23	2.00
<i>Mile Total</i>					24	48.00		0.65		
<i>Number of Species</i>					8					
<i>Number of Hybrids</i>					0					

Species List

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River Code: 02-145	Stream: Fulton Creek	Sample Date: 2009
River Mile: 1.20	Location: Fulton Creek Rd.	Date Range: 06/24/2009
Time Fished: 3278 sec	Drainage: 46.4 sq mi	Thru: 08/13/2009
Dist Fished: 0.35 km	Basin: Scioto River	Sampler Type: D E
	No of Passes: 2	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight	
Redfin Pickerel		P	M	P	18	16.25	2.53	0.58	6.68	35.06
Northern Pike	F	P	M		4	3.00	0.47	0.03	0.29	8.25
White Sucker	W	O	S	T	34	29.00	4.52	3.25	37.52	118.42
Creek Chubsucker	R	I	M		6	6.00	0.93	0.01	0.07	1.00
Creek Chub	N	G	N	T	2	1.75	0.27	0.03	0.31	14.50
Silver Shiner	N	I	S	I	23	22.50	3.50	0.04	0.42	1.78
Redfin Shiner	N	I	N		3	3.00	0.47	0.01	0.06	1.67
Scarlet Shiner	N	I	S	M	1	0.75	0.12	0.00	0.03	4.00
Spotfin Shiner	N	I	M		109	83.25	12.96	0.14	1.60	1.67
Sand Shiner	N	I	M	M	1	0.75	0.12	0.00	0.03	3.00
Bluntnose Minnow	N	O	C	T	385	299.25	46.59	0.46	5.26	1.48
Central Stoneroller	N	H	N		11	9.25	1.44	0.06	0.72	6.27
Yellow Bullhead		I	C	T	2	1.75	0.27	0.30	3.49	165.00
Black Bullhead		I	C	P	3	2.75	0.43	0.22	2.59	85.00
Tadpole Madtom		I	C		1	1.00	0.16	0.01	0.13	11.00
Blackstripe Topminnow		I	M		1	1.00	0.16	0.00	0.03	3.00
Rock Bass	S	C	C		38	34.50	5.37	1.95	22.49	57.29
Smallmouth Bass	F	C	C	M	7	5.50	0.86	0.40	4.63	68.86
Largemouth Bass	F	C	C		11	9.50	1.48	0.08	0.91	8.27
Green Sunfish	S	I	C	T	16	15.50	2.41	0.38	4.44	24.69
Bluegill Sunfish	S	I	C	P	2	1.75	0.27	0.15	1.78	96.00
Longear Sunfish	S	I	C	M	18	17.00	2.65	0.46	5.29	26.83
Johnny Darter	D	I	C		20	17.00	2.65	0.02	0.23	1.15
Greenside Darter	D	I	S	M	43	33.25	5.18	0.05	0.54	1.40
Banded Darter	D	I	S	I	3	2.25	0.35	0.00	0.05	2.00
Rainbow Darter	D	I	S	M	20	16.25	2.53	0.03	0.32	1.75
Fantail Darter	D	I	C		11	8.50	1.32	0.01	0.14	1.40
Mile Total					793	642.25		8.67		
Number of Species					27					
Number of Hybrids					0					

River Code: 02-148	Stream: Kebler Run	Sample Date: 2009
River Mile: 0.80	Location: River Rd.	Date Range: 07/30/2009
Time Fished: 1491 sec	Drainage: 14.3 sq mi	
Dist Fished: 0.15 km	Basin: Scioto River	No of Passes: 1
		Sampler Type: E

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Redfin Pickerel		P	M	P	1	2.00	0.20			
Northern Pike	F	P	M		6	12.00	1.20			
Northern Hog Sucker	R	I	S	M	2	4.00	0.40			
White Sucker	W	O	S	T	14	28.00	2.79			
Creek Chub	N	G	N	T	41	82.00	8.17			
Redfin Shiner	N	I	N		1	2.00	0.20			
Striped Shiner	N	I	S		14	28.00	2.79			
Spotfin Shiner	N	I	M		3	6.00	0.60			
Bluntnose Minnow	N	O	C	T	96	192.00	19.12			
Central Stoneroller	N	H	N		113	226.00	22.51			
Yellow Bullhead		I	C	T	1	2.00	0.20			
Rock Bass	S	C	C		13	26.00	2.59			
Smallmouth Bass	F	C	C	M	2	4.00	0.40			
Green Sunfish	S	I	C	T	5	10.00	1.00			
Longear Sunfish	S	I	C	M	1	2.00	0.20			
Johnny Darter	D	I	C		12	24.00	2.39			
Greenside Darter	D	I	S	M	55	110.00	10.96			
Rainbow Darter	D	I	S	M	64	128.00	12.75			
Orangethroat Darter	D	I	S		4	8.00	0.80			
Fantail Darter	D	I	C		54	108.00	10.76			
<i>Mile Total</i>					502	1,004.00				
<i>Number of Species</i>					20					
<i>Number of Hybrids</i>					0					

River Code: 02-149	Stream: Ottawa Creek	Sample Date: 2009
River Mile: 0.10	Location: St. Rt. 257	Date Range: 07/30/2009
Time Fished: 969 sec	Drainage: 8.0 sq mi	
Dist Fished: 0.13 km	Basin: Scioto River	No of Passes: 1
		Sampler Type: E

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Northern Hog Sucker	R	I	S	M	3	6.92	0.80			
White Sucker	W	O	S	T	2	4.62	0.54			
Creek Chub	N	G	N	T	34	78.46	9.12			
Redfin Shiner	N	I	N		11	25.39	2.95			
Spotfin Shiner	N	I	M		2	4.62	0.54			
Sand Shiner	N	I	M	M	10	23.08	2.68			
Bluntnose Minnow	N	O	C	T	105	242.31	28.15			
Central Stoneroller	N	H	N		95	219.23	25.47			
Smallmouth Bass	F	C	C	M	2	4.62	0.54			
Green Sunfish	S	I	C	T	3	6.92	0.80			
Johnny Darter	D	I	C		30	69.23	8.04			
Greenside Darter	D	I	S	M	8	18.46	2.14			
Rainbow Darter	D	I	S	M	47	108.46	12.60			
Fantail Darter	D	I	C		21	48.46	5.63			
<i>Mile Total</i>					373	860.77				
<i>Number of Species</i>					14					
<i>Number of Hybrids</i>					0					

River Code: 02-154	Stream: Battle Run	Sample Date: 2009
River Mile: 0.30	Location: Elm St.	Date Range: 07/30/2009
Time Fished: 922 sec	Drainage: 9.4 sq mi	
Dist Fished: 0.15 km	Basin: Scioto River	No of Passes: 1
		Sampler Type: E

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Redfin Pickerel		P	M	P	9	18.00	6.08			
White Sucker	W	O	S	T	11	22.00	7.43			
Creek Chub	N	G	N	T	15	30.00	10.14			
Central Stoneroller	N	H	N		12	24.00	8.11			
Tadpole Madtom		I	C		1	2.00	0.68			
Green Sunfish	S	I	C	T	48	96.00	32.43			
Longear Sunfish	S	I	C	M	6	12.00	4.05			
Johnny Darter	D	I	C		3	6.00	2.03			
Rainbow Darter	D	I	S	M	39	78.00	26.35			
Orangethroat Darter	D	I	S		1	2.00	0.68			
Fantail Darter	D	I	C		3	6.00	2.03			
<i>Mile Total</i>					148	296.00				
<i>Number of Species</i>					11					
<i>Number of Hybrids</i>					0					

River Code: 02-155	Stream: Patton Run	Sample Date: 2009
River Mile: 2.30	Location: Boundary Rd.	Date Range: 07/29/2009
Time Fished: 729 sec	Drainage: 14.4 sq mi	
Dist Fished: 0.15 km	Basin: Scioto River	No of Passes: 1
		Sampler Type: E

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Redfin Pickerel		P	M	P	7	14.00	1.73			
White Sucker	W	O	S	T	35	70.00	8.66			
Creek Chub	N	G	N	T	171	342.00	42.33			
Bluntnose Minnow	N	O	C	T	34	68.00	8.42			
Central Stoneroller	N	H	N		38	76.00	9.41			
Yellow Bullhead		I	C	T	1	2.00	0.25			
Blackside Darter	D	I	S		1	2.00	0.25			
Johnny Darter	D	I	C		55	110.00	13.61			
Greenside Darter	D	I	S	M	27	54.00	6.68			
Rainbow Darter	D	I	S	M	22	44.00	5.45			
Orangethroat Darter	D	I	S		13	26.00	3.22			
<i>Mile Total</i>					404	808.00				
<i>Number of Species</i>					11					
<i>Number of Hybrids</i>					0					

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River Code: 02-158	Stream: Little Scioto River	Sample Date: 2009
River Mile: 25.60	Location: Twp. Rd. 68	Date Range: 07/28/2009
Time Fished: 606 sec	Drainage: 12.8 sq mi	
Dist Fished: 0.15 km	Basin: Scioto River	No of Passes: 1
		Sampler Type: E

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Redfin Pickerel		P	M	P	9	18.00	3.49			
White Sucker	W	O	S	T	14	28.00	5.43			
Creek Chub	N	G	N	T	80	160.00	31.01			
Bluntnose Minnow	N	O	C	T	56	112.00	21.71			
Central Stoneroller	N	H	N		21	42.00	8.14			
Yellow Bullhead		I	C	T	1	2.00	0.39			
Tadpole Madtom		I	C		3	6.00	1.16			
Blackstripe Topminnow		I	M		3	6.00	1.16			
Green Sunfish	S	I	C	T	1	2.00	0.39			
Blackside Darter	D	I	S		8	16.00	3.10			
Johnny Darter	D	I	C		49	98.00	18.99			
Greenside Darter	D	I	S	M	11	22.00	4.26			
Rainbow Darter	D	I	S	M	1	2.00	0.39			
Orangethroat Darter	D	I	S		1	2.00	0.39			
<i>Mile Total</i>					258	516.00				
<i>Number of Species</i>					14					
<i>Number of Hybrids</i>					0					

River Code: 02-158	Stream: Little Scioto River	Sample Date: 2009
River Mile: 19.70	Location: County Line Rd.	Date Range: 07/06/2009
Time Fished: 2333 sec	Drainage: 33.0 sq mi	Thru: 08/12/2009
Dist Fished: 0.30 km	Basin: Scioto River	No of Passes: 2
		Sampler Type: E

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Redfin Pickerel		P	M	P	15	15.00	3.62	0.46	5.24	30.67
Golden Redhorse	R	I	S	M	3	3.00	0.72	0.13	1.48	43.33
White Sucker	W	O	S	T	102	102.00	24.64	5.14	58.58	50.39
Common Carp	G	O	M	T	1	1.00	0.24	0.08	0.92	81.00
Creek Chub	N	G	N	T	99	99.00	23.91	1.89	21.52	19.07
Redfin Shiner	N	I	N		11	11.00	2.66	0.02	0.26	2.09
Striped Shiner	N	I	S		1	1.00	0.24	0.03	0.31	27.00
Common Shiner	N	I	S		3	3.00	0.72	0.04	0.48	14.00
Bluntnose Minnow	N	O	C	T	88	88.00	21.26	0.25	2.86	2.85
Central Stoneroller	N	H	N		14	14.00	3.38	0.21	2.42	15.14
Yellow Bullhead		I	C	T	1	1.00	0.24	0.10	1.14	100.00
Tadpole Madtom		I	C		5	5.00	1.21	0.09	0.97	17.00
Blackstripe Topminnow		I	M		1	1.00	0.24	0.00	0.02	2.00
Green Sunfish	S	I	C	T	5	5.00	1.21	0.11	1.29	22.60
Longear Sunfish	S	I	C	M	12	12.00	2.90	0.12	1.34	9.83
Blackside Darter	D	I	S		15	15.00	3.62	0.07	0.75	4.40
Johnny Darter	D	I	C		37	37.00	8.94	0.04	0.40	0.95
Greenside Darter	D	I	S	M	1	1.00	0.24	0.00	0.01	1.00
<i>Mile Total</i>					414	414.00		8.77		
<i>Number of Species</i>					18					
<i>Number of Hybrids</i>					0					

River Code: 02-158	Stream: Little Scioto River	Sample Date: 2009
River Mile: 11.10	Location: Kenton-Galion Rd.	Date Range: 07/06/2009
Time Fished: 2271 sec	Drainage: 47.0 sq mi	Thru: 08/12/2009
Dist Fished: 0.40 km	Basin: Scioto River	No of Passes: 2
		Sampler Type: D

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Gizzard Shad		O	M		2	1.50	0.75	0.05	0.18	30.00
Redfin Pickerel		P	M	P	4	3.00	1.50	0.16	0.63	52.50
White Sucker	W	O	S	T	147	110.25	55.06	6.30	25.17	57.10
Spotted Sucker	R	I	S		1	0.75	0.37	0.21	0.86	285.00
Common Carp	G	O	M	T	12	9.00	4.49	16.08	64.29	1,786.36
Goldfish	G	O	M	T	3	2.25	1.12	0.15	0.60	66.67
Golden Shiner	N	I	M	T	2	1.50	0.75	0.03	0.12	20.00
Creek Chub	N	G	N	T	22	16.50	8.24	0.59	2.37	35.91
Redfin Shiner	N	I	N		2	1.50	0.75	0.01	0.04	6.00
Spotfin Shiner	N	I	M		10	7.50	3.75	0.04	0.17	5.60
Bluntnose Minnow	N	O	C	T	4	3.00	1.50	0.02	0.09	7.75
Central Stoneroller	N	H	N		1	0.75	0.37	0.02	0.07	23.00
Common Carp X Goldfish	G	O		T	1	0.75	0.37	0.06	0.23	75.00
Yellow Bullhead		I	C	T	2	1.50	0.75	0.17	0.66	110.00
Black Bullhead		I	C	P	6	4.50	2.25	0.35	1.41	78.33
Tadpole Madtom		I	C		2	1.50	0.75	0.03	0.12	19.50
Rock Bass	S	C	C		1	0.75	0.37	0.03	0.14	45.00
Largemouth Bass	F	C	C		1	0.75	0.37	0.05	0.19	63.00
Green Sunfish	S	I	C	T	32	24.00	11.99	0.55	2.19	22.85
Orangespotted Sunfish	S	I	C		1	0.75	0.37	0.02	0.06	21.00
Longear Sunfish	S	I	C	M	4	3.00	1.50	0.08	0.31	25.75
Blackside Darter	D	I	S		3	2.25	1.12	0.03	0.11	12.00
Johnny Darter	D	I	C		4	3.00	1.50	0.00	0.01	1.00
<i>Mile Total</i>					267	200.25		25.01		
<i>Number of Species</i>					22					
<i>Number of Hybrids</i>					1					

River Code: 02-158	Stream: Little Scioto River	Sample Date: 2009
River Mile: 9.20	Location: Hillman Ford Rd.	Date Range: 07/06/2009
Time Fished: 2707 sec	Drainage: 72.5 sq mi	Thru: 08/12/2009
Dist Fished: 0.35 km	Basin: Scioto River	No of Passes: 2
		Sampler Type: D E

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
White Sucker	W	O	S	T	8	6.25	1.49	0.17	4.87	27.63
Creek Chub	N	G	N	T	129	102.25	24.37	1.30	37.55	12.98
Striped Shiner	N	I	S		1	1.00	0.24	0.01	0.35	12.00
Bluntnose Minnow	N	O	C	T	168	136.00	32.42	0.37	10.58	2.69
Central Stoneroller	N	H	N		100	78.50	18.71	0.66	18.95	8.48
Brindled Madtom		I	C	I	1	0.75	0.18	0.02	0.59	27.00
Tadpole Madtom		I	C		1	1.00	0.24	0.01	0.32	11.00
Rock Bass	S	C	C		5	3.75	0.89	0.40	11.63	107.60
Green Sunfish	S	I	C	T	12	9.50	2.26	0.09	2.67	9.67
Longear Sunfish	S	I	C	M	11	8.75	2.09	0.14	4.12	16.64
Blackside Darter	D	I	S		1	1.00	0.24	0.01	0.32	11.00
Logperch	D	I	S	M	2	1.50	0.36	0.02	0.69	16.00
Johnny Darter	D	I	C		48	43.00	10.25	0.08	2.19	1.77
Greenside Darter	D	I	S	M	22	17.25	4.11	0.15	4.25	8.50
Fantail Darter	D	I	C		10	9.00	2.15	0.03	0.95	3.90
<i>Mile Total</i>					519	419.50		3.47		
<i>Number of Species</i>					15					
<i>Number of Hybrids</i>					0					

River Code: 02-158	Stream: Little Scioto River	Sample Date: 2009
River Mile: 6.50	Location: dst. Holland Rd., dst. N. Rockswale D.	Date Range: 07/09/2009
Time Fished: 4037 sec	Drainage: 86.0 sq mi	Thru: 08/18/2009
Dist Fished: 1.00 km	Basin: Scioto River	No of Passes: 2
		Sampler Type: A

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Gizzard Shad		O	M		22	22.00	5.93	1.24	1.49	56.45
Redfin Pickerel		P	M	P	1	1.00	0.27	0.02	0.02	15.00
Northern Pike	F	P	M		2	2.00	0.54	0.32	0.38	160.00
White Sucker	W	O	S	T	157	157.00	42.32	19.17	23.04	122.08
Spotted Sucker	R	I	S		2	2.00	0.54	1.20	1.44	600.00
Common Carp	G	O	M	T	47	47.00	12.67	56.12	67.45	1,193.99
Goldfish	G	O	M	T	5	5.00	1.35	0.42	0.50	83.00
Golden Shiner	N	I	M	T	4	4.00	1.08	0.03	0.03	6.50
Black Bullhead		I	C	P	30	30.00	8.09	0.97	1.16	32.23
White Crappie	S	I	C		15	15.00	4.04	1.38	1.65	91.73
Largemouth Bass	F	C	C		5	5.00	1.35	0.84	1.01	168.60
Green Sunfish	S	I	C	T	70	70.00	18.87	1.29	1.55	18.47
Bluegill Sunfish	S	I	C	P	6	6.00	1.62	0.07	0.08	11.17
Orangespotted Sunfish	S	I	C		4	4.00	1.08	0.09	0.10	21.25
Green Sf X Bluegill Sf					1	1.00	0.27	0.07	0.08	70.00
<i>Mile Total</i>					371	371.00		83.20		
<i>Number of Species</i>					14					
<i>Number of Hybrids</i>					1					

River Code: 02-158	Stream: Little Scioto River	Sample Date: 2009
River Mile: 6.20	Location: dst. Marion WWTP	Date Range: 07/09/2009
Time Fished: 4388 sec	Drainage: 86.0 sq mi	Thru: 08/18/2009
Dist Fished: 1.00 km	Basin: Scioto River	No of Passes: 2
		Sampler Type: A

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Gizzard Shad		O	M	13	13.00	2.93	0.30	0.24	22.77
Redfin Pickerel		P	M P	4	4.00	0.90	0.05	0.04	11.75
Northern Pike	F	P	M	2	2.00	0.45	6.60	5.33	3,300.00
Quillback	C	O	M	5	5.00	1.13	1.71	1.38	341.33
Golden Redhorse	R	I	S M	4	4.00	0.90	0.27	0.22	67.50
White Sucker	W	O	S T	170	170.00	38.29	22.32	18.01	131.30
Spotted Sucker	R	I	S	24	24.00	5.41	7.23	5.83	301.04
Common Carp	G	O	M T	76	76.00	17.12	81.62	65.86	1,073.91
Goldfish	G	O	M T	5	5.00	1.13	0.80	0.65	160.00
Golden Shiner	N	I	M T	3	3.00	0.68	0.02	0.02	6.67
Spotfin Shiner	N	I	M	1	1.00	0.23	0.00	0.00	1.00
Bluntnose Minnow	N	O	C T	1	1.00	0.23	0.00	0.00	2.00
Black Bullhead		I	C P	9	9.00	2.03	0.56	0.45	62.22
White Crappie	S	I	C	93	93.00	20.95	2.00	1.61	21.48
Green Sunfish	S	I	C T	30	30.00	6.76	0.42	0.34	13.97
Bluegill Sunfish	S	I	C P	2	2.00	0.45	0.03	0.02	12.50
Orangespotted Sunfish	S	I	C	1	1.00	0.23	0.02	0.01	15.00
Longear Sunfish	S	I	C M	1	1.00	0.23	0.00	0.00	4.00
<i>Mile Total</i>				444	444.00		123.93		
<i>Number of Species</i>				18					
<i>Number of Hybrids</i>				0					

River Code: 02-158	Stream: Little Scioto River	Sample Date: 2009
River Mile: 0.40	Location: at Green Camp	Date Range: 07/20/2009
Time Fished: 2491 sec	Drainage: 113.0 sq mi	Thru: 08/12/2009
Dist Fished: 0.40 km	Basin: Scioto River	No of Passes: 2
		Sampler Type: D

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Redfin Pickerel		P	M	P	5	3.75	2.43	0.07	0.74	18.20
White Sucker	W	O	S	T	54	40.50	26.21	5.35	57.43	132.15
Common Carp	G	O	M	T	2	1.50	0.97	2.93	31.39	1,950.00
Creek Chub	N	G	N	T	1	0.75	0.49	0.00	0.03	3.00
Redfin Shiner	N	I	N		7	5.25	3.40	0.01	0.10	1.71
Spotfin Shiner	N	I	M		24	18.00	11.65	0.05	0.53	2.71
Bluntnose Minnow	N	O	C	T	36	27.00	17.48	0.06	0.63	2.16
Tadpole Madtom		I	C		1	0.75	0.49	0.00	0.05	6.00
White Crappie	S	I	C		1	0.75	0.49	0.06	0.65	81.00
Rock Bass	S	C	C		2	1.50	0.97	0.10	1.06	66.00
Largemouth Bass	F	C	C		1	0.75	0.49	0.12	1.29	160.00
Green Sunfish	S	I	C	T	62	46.50	30.10	0.44	4.76	9.53
Bluegill Sunfish	S	I	C	P	2	1.50	0.97	0.02	0.24	14.50
Orangespotted Sunfish	S	I	C		1	0.75	0.49	0.01	0.11	14.00
Longear Sunfish	S	I	C	M	6	4.50	2.91	0.05	0.54	11.00
Green Sf X Bluegill Sf					1	0.75	0.49	0.05	0.49	61.00
<i>Mile Total</i>					206	154.50		9.32		
<i>Number of Species</i>					15					
<i>Number of Hybrids</i>					1					

River Code: 02-159	Stream: Honey Creek	Sample Date: 2009
River Mile: 0.10	Location: at mouth	Date Range: 07/20/2009
Time Fished: 1558 sec	Drainage: 7.3 sq mi	
Dist Fished: 0.20 km	Basin: Scioto River	No of Passes: 1
		Sampler Type: D

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Redfin Pickerel		P	M	P	9	13.50	4.13	0.18	2.23	13.44
Northern Pike	F	P	M		3	4.50	1.38	0.09	1.10	20.00
Northern Hog Sucker	R	I	S	M	1	1.50	0.46	0.06	0.74	40.00
White Sucker	W	O	S	T	50	75.00	22.94	6.54	80.19	87.14
Golden Shiner	N	I	M	T	3	4.50	1.38	0.01	0.11	2.00
Creek Chub	N	G	N	T	2	3.00	0.92	0.30	3.68	100.00
Redfin Shiner	N	I	N		2	3.00	0.92	0.01	0.07	2.00
Spotfin Shiner	N	I	M		18	27.00	8.26	0.05	0.55	1.67
Bluntnose Minnow	N	O	C	T	84	126.00	38.53	0.12	1.50	0.96
Yellow Bullhead		I	C	T	1	1.50	0.46	0.15	1.84	100.00
Black Bullhead		I	C	P	1	1.50	0.46	0.14	1.66	90.00
Rock Bass	S	C	C		1	1.50	0.46	0.05	0.65	35.00
Largemouth Bass	F	C	C		4	6.00	1.83	0.02	0.18	2.50
Green Sunfish	S	I	C	T	29	43.50	13.30	0.42	5.12	9.59
Bluegill Sunfish	S	I	C	P	1	1.50	0.46	0.02	0.22	12.00
Johnny Darter	D	I	C		9	13.50	4.13	0.02	0.18	1.11
<i>Mile Total</i>					218	327.00		8.15		
<i>Number of Species</i>					16					
<i>Number of Hybrids</i>					0					

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River Code: 02-162	Stream: Rock Fork	Sample Date: 2009
River Mile: 8.10	Location: Marseilles-Galion Rd.	Date Range: 07/28/2009
Time Fished: 900 sec	Drainage: 6.5 sq mi	
Dist Fished: 0.15 km	Basin: Scioto River	No of Passes: 1
		Sampler Type: E

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
White Sucker	W	O	S	T	4	8.00	3.88			
Creek Chub	N	G	N	T	41	82.00	39.81			
Striped Shiner	N	I	S		1	2.00	0.97			
Fathead Minnow	N	O	C	T	6	12.00	5.83			
Bluntnose Minnow	N	O	C	T	1	2.00	0.97			
Central Stoneroller	N	H	N		7	14.00	6.80			
Blackstripe Topminnow		I	M		19	38.00	18.45			
Green Sunfish	S	I	C	T	1	2.00	0.97			
Johnny Darter	D	I	C		21	42.00	20.39			
Orangethroat Darter	D	I	S		2	4.00	1.94			
<i>Mile Total</i>					103	206.00				
<i>Number of Species</i>					10					
<i>Number of Hybrids</i>					0					

River Code: 02-162	Stream: Rock Fork	Sample Date: 2009
River Mile: 1.10	Location: Kenton-Galion Rd.	Date Range: 07/06/2009
Time Fished: 3006 sec	Drainage: 23.1 sq mi	Thru: 08/12/2009
Dist Fished: 0.35 km	Basin: Scioto River	Sampler Type: D E
	No of Passes: 2	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
White Sucker	W	O	S	T	96	82.75	10.53	2.44	31.53	29.71
Creek Chub	N	G	N	T	170	139.50	17.75	3.00	38.80	20.79
Redfin Shiner	N	I	N		37	31.50	4.01	0.10	1.35	3.32
Striped Shiner	N	I	S		10	7.50	0.95	0.08	0.99	10.20
Silverjaw Minnow	N	I	M		13	11.00	1.40	0.03	0.40	2.74
Fathead Minnow	N	O	C	T	4	3.00	0.38	0.00	0.06	1.50
Bluntnose Minnow	N	O	C	T	358	301.75	38.39	0.83	10.70	2.70
Central Stoneroller	N	H	N		52	50.00	6.36	0.38	4.96	7.60
Yellow Bullhead		I	C	T	2	1.50	0.19	0.11	1.38	71.00
Black Bullhead		I	C	P	1	0.75	0.10	0.01	0.15	15.00
Tadpole Madtom		I	C		2	1.50	0.19	0.02	0.21	10.50
Green Sunfish	S	I	C	T	21	16.25	2.07	0.25	3.21	15.32
Bluegill Sunfish	S	I	C	P	2	1.50	0.19	0.00	0.05	2.50
Longear Sunfish	S	I	C	M	22	18.25	2.32	0.25	3.25	13.73
Johnny Darter	D	I	C		124	102.00	12.98	0.15	1.92	1.46
Greenside Darter	D	I	S	M	21	17.25	2.19	0.08	1.07	4.62
<i>Mile Total</i>					935	786.00		7.74		
<i>Number of Species</i>					16					
<i>Number of Hybrids</i>					0					

River Code: 02-165	Stream: Rush Creek	Sample Date: 2009
River Mile: 39.50	Location: Co. Rd. 118	Date Range: 07/29/2009
Time Fished: 1504 sec	Drainage: 11.8 sq mi	
Dist Fished: 0.15 km	Basin: Scioto River	No of Passes: 1
		Sampler Type: E

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Redfin Pickerel		P	M	P	1	2.00	0.18			
Northern Hog Sucker	R	I	S	M	16	32.00	2.84			
White Sucker	W	O	S	T	91	182.00	16.16			
Creek Chub	N	G	N	T	199	398.00	35.35			
Bluntnose Minnow	N	O	C	T	39	78.00	6.93			
Central Stoneroller	N	H	N		132	264.00	23.45			
Green Sunfish	S	I	C	T	3	6.00	0.53			
Bluegill Sunfish	S	I	C	P	1	2.00	0.18			
Blackside Darter	D	I	S		5	10.00	0.89			
Johnny Darter	D	I	C		14	28.00	2.49			
Rainbow Darter	D	I	S	M	3	6.00	0.53			
Orangethroat Darter	D	I	S		37	74.00	6.57			
Fantail Darter	D	I	C		18	36.00	3.20			
Mottled Sculpin		I	C		4	8.00	0.71			
<i>Mile Total</i>					563	1,126.00				
<i>Number of Species</i>					14					
<i>Number of Hybrids</i>					0					

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River Code: 02-165	Stream: Rush Creek	Sample Date: 2009
River Mile: 36.20	Location: Co. Rd. 110	Date Range: 07/29/2009
Time Fished: 1500 sec	Drainage: 14.8 sq mi	
Dist Fished: 0.15 km	Basin: Scioto River	No of Passes: 1
		Sampler Type: E

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Golden Redhorse	R	I	S	M	3	6.00	0.58			
Northern Hog Sucker	R	I	S	M	37	74.00	7.18			
White Sucker	W	O	S	T	66	132.00	12.82			
Creek Chub	N	G	N	T	72	144.00	13.98			
Silver Shiner	N	I	S	I	17	34.00	3.30			
Striped Shiner	N	I	S		53	106.00	10.29			
Sand Shiner	N	I	M	M	3	6.00	0.58			
Silverjaw Minnow	N	I	M		13	26.00	2.52			
Bluntnose Minnow	N	O	C	T	42	84.00	8.16			
Central Stoneroller	N	H	N		111	222.00	21.55			
Stonecat Madtom		I	C	I	5	10.00	0.97			
Rock Bass	S	C	C		2	4.00	0.39			
Green Sunfish	S	I	C	T	1	2.00	0.19			
Blackside Darter	D	I	S		2	4.00	0.39			
Johnny Darter	D	I	C		11	22.00	2.14			
Greenside Darter	D	I	S	M	24	48.00	4.66			
Rainbow Darter	D	I	S	M	21	42.00	4.08			
Fantail Darter	D	I	C		32	64.00	6.21			
<i>Mile Total</i>					515	1,030.00				
<i>Number of Species</i>					18					
<i>Number of Hybrids</i>					0					

River Code: 02-165	Stream: Rush Creek	Sample Date: 2009
River Mile: 26.30	Location: West Mansfield-Mt. Victory Rd.	Date Range: 07/01/2009
Time Fished: 2577 sec	Drainage: 25.7 sq mi	Thru: 08/11/2009
Dist Fished: 0.30 km	Basin: Scioto River	No of Passes: 2
		Sampler Type: E

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Quillback	C	O	M	2	2.00	0.23	0.01	0.23	6.00
Golden Redhorse	R	I	S M	6	6.00	0.70	0.06	1.04	9.17
Northern Hog Sucker	R	I	S M	25	25.00	2.91	0.04	0.78	1.67
White Sucker	W	O	S T	52	52.00	6.05	1.68	31.67	32.27
Creek Chub	N	G	N T	185	185.00	21.51	1.76	33.19	9.50
Silver Shiner	N	I	S I	23	23.00	2.67	0.05	0.89	2.03
Redfin Shiner	N	I	N	3	3.00	0.35	0.01	0.09	1.67
Striped Shiner	N	I	S	54	54.00	6.28	0.33	6.13	6.02
Sand Shiner	N	I	M M	15	15.00	1.74	0.04	0.69	2.42
Silverjaw Minnow	N	I	M	90	90.00	10.47	0.20	3.81	2.24
Bluntnose Minnow	N	O	C T	125	125.00	14.53	0.17	3.18	1.35
Central Stoneroller	N	H	N	192	192.00	22.33	0.45	8.43	2.33
Stonecat Madtom		I	C I	4	4.00	0.47	0.05	1.02	13.50
Rock Bass	S	C	C	13	13.00	1.51	0.23	4.27	17.38
Smallmouth Bass	F	C	C M	1	1.00	0.12	0.11	2.04	108.00
Green Sunfish	S	I	C T	1	1.00	0.12	0.02	0.42	22.00
Green Sf X Hybrid				1	1.00	0.12	0.02	0.42	22.00
Blackside Darter	D	I	S	1	1.00	0.12	0.00	0.04	2.00
Johnny Darter	D	I	C	39	39.00	4.53	0.03	0.65	0.88
Greenside Darter	D	I	S M	10	10.00	1.16	0.02	0.42	2.25
Banded Darter	D	I	S I	2	2.00	0.23	0.00	0.04	1.00
Rainbow Darter	D	I	S M	2	2.00	0.23	0.00	0.04	1.00
Orangethroat Darter	D	I	S	4	4.00	0.47	0.01	0.15	2.00
Fantail Darter	D	I	C	10	10.00	1.16	0.02	0.38	2.00
<i>Mile Total</i>				860	860.00		5.30		
<i>Number of Species</i>				23					
<i>Number of Hybrids</i>				1					

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River Code: 02-165	Stream: Rush Creek	Sample Date: 2009
River Mile: 14.50	Location: Winnemar Rd.	Date Range: 06/24/2009
Time Fished: 2266 sec	Drainage: 50.0 sq mi	Thru: 08/11/2009
Dist Fished: 0.40 km	Basin: Scioto River	No of Passes: 2
		Sampler Type: D

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Redfin Pickerel		P	M	P	22	16.50	3.90	0.22	1.61	13.18
Golden Redhorse	R	I	S	M	18	13.50	3.19	1.49	11.01	110.11
Northern Hog Sucker	R	I	S	M	11	8.25	1.95	0.82	6.08	99.45
White Sucker	W	O	S	T	61	45.75	10.82	4.42	32.73	96.64
Creek Chub	N	G	N	T	115	86.25	20.39	2.23	16.52	25.87
Redfin Shiner	N	I	N		11	8.25	1.95	0.02	0.11	1.82
Striped Shiner	N	I	S		107	80.25	18.97	1.39	10.30	17.35
Sand Shiner	N	I	M	M	1	0.75	0.18	0.00	0.01	2.00
Bluntnose Minnow	N	O	C	T	39	29.25	6.91	0.11	0.83	3.85
Central Stoneroller	N	H	N		26	19.50	4.61	0.20	1.47	10.18
Yellow Bullhead		I	C	T	6	4.50	1.06	0.31	2.29	68.67
Black Bullhead		I	C	P	1	0.75	0.18	0.10	0.73	132.00
Blackstripe Topminnow		I	M		2	1.50	0.35	0.01	0.07	6.00
Rock Bass	S	C	C		20	15.00	3.55	0.89	6.56	59.05
Smallmouth Bass	F	C	C	M	2	1.50	0.35	0.24	1.78	160.00
Green Sunfish	S	I	C	T	32	24.00	5.67	0.76	5.60	31.50
Longear Sunfish	S	I	C	M	1	0.75	0.18	0.02	0.17	31.00
Green Sf X Bluegill Sf					2	1.50	0.35	0.06	0.41	37.00
Blackside Darter	D	I	S		13	9.75	2.30	0.06	0.43	5.97
Logperch	D	I	S	M	4	3.00	0.71	0.05	0.36	16.25
Johnny Darter	D	I	C		8	6.00	1.42	0.01	0.04	1.00
Greenside Darter	D	I	S	M	21	15.75	3.72	0.07	0.53	4.50
Rainbow Darter	D	I	S	M	16	12.00	2.84	0.02	0.11	1.23
Orangethroat Darter	D	I	S		1	0.75	0.18	0.00	0.01	2.00
Fantail Darter	D	I	C		24	18.00	4.26	0.04	0.26	1.96
<i>Mile Total</i>					564	423.00		13.51		
<i>Number of Species</i>					24					
<i>Number of Hybrids</i>					1					

River Code: 02-165	Stream: Rush Creek	Sample Date: 2009
River Mile: 8.80	Location: upst. St. Rt. 739	Date Range: 06/30/2009
Time Fished: 2862 sec	Drainage: 74.0 sq mi	Thru: 08/11/2009
Dist Fished: 0.40 km	Basin: Scioto River	No of Passes: 2
		Sampler Type: D

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Redfin Pickerel		P	M	P	63	47.25	9.14	1.48	2.00	31.33
Golden Redhorse	R	I	S	M	2	1.50	0.29	0.17	0.23	112.00
Northern Hog Sucker	R	I	S	M	5	3.75	0.73	0.01	0.01	1.40
White Sucker	W	O	S	T	150	112.50	21.77	11.50	15.53	102.24
Spotted Sucker	R	I	S		4	3.00	0.58	0.49	0.66	163.75
Common Carp	G	O	M	T	52	39.00	7.55	55.21	74.54	1,415.73
Creek Chub	N	G	N	T	25	18.75	3.63	0.79	1.07	42.07
Redfin Shiner	N	I	N		116	87.00	16.84	0.26	0.35	2.99
Striped Shiner	N	I	S		1	0.75	0.15	0.03	0.04	40.00
Bluntnose Minnow	N	O	C	T	25	18.75	3.63	0.05	0.07	2.91
Yellow Bullhead		I	C	T	9	6.75	1.31	0.47	0.64	70.00
Black Bullhead		I	C	P	9	6.75	1.31	0.45	0.61	66.67
Blackstripe Topminnow		I	M		1	0.75	0.15	0.00	0.00	4.00
Rock Bass	S	C	C		10	7.50	1.45	0.35	0.48	47.00
Green Sunfish	S	I	C	T	183	137.25	26.56	2.44	3.30	17.79
Bluegill Sunfish	S	I	C	P	3	2.25	0.44	0.04	0.06	19.33
Longear Sunfish	S	I	C	M	18	13.50	2.61	0.19	0.26	14.39
Green Sf X Bluegill Sf					1	0.75	0.15	0.10	0.13	131.00
Blackside Darter	D	I	S		4	3.00	0.58	0.01	0.02	4.00
Logperch	D	I	S	M	1	0.75	0.15	0.01	0.01	8.00
Johnny Darter	D	I	C		7	5.25	1.02	0.01	0.01	1.57
<i>Mile Total</i>					689	516.75		74.08		
<i>Number of Species</i>					20					
<i>Number of Hybrids</i>					1					

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River Code: 02-165	Stream: Rush Creek	Sample Date: 2009
River Mile: 7.60	Location:	Date Range: 06/30/2009
Time Fished: 3143 sec	Drainage: 74.0 sq mi	Thru: 08/11/2009
Dist Fished: 0.40 km	Basin: Scioto River	No of Passes: 2
		Sampler Type: D

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Redfin Pickerel		P	M	P	73	54.75	9.84	0.70	2.58	12.71
Silver Redhorse	R	I	S	M	3	2.25	0.40	1.49	5.53	663.33
Golden Redhorse	R	I	S	M	18	13.50	2.43	2.20	8.16	163.28
Northern Hog Sucker	R	I	S	M	4	3.00	0.54	0.30	1.12	101.00
White Sucker	W	O	S	T	106	79.50	14.29	6.74	24.94	84.75
Spotted Sucker	R	I	S		4	3.00	0.54	0.36	1.33	120.00
Common Carp	G	O	M	T	12	9.00	1.62	9.84	36.43	1,093.33
Goldfish	G	O	M	T	1	0.75	0.13	0.02	0.07	25.00
Creek Chub	N	G	N	T	74	55.50	9.97	2.09	7.75	37.71
Redfin Shiner	N	I	N		65	48.75	8.76	0.14	0.50	2.77
Striped Shiner	N	I	S		8	6.00	1.08	0.09	0.31	14.13
Bluntnose Minnow	N	O	C	T	68	51.00	9.16	0.13	0.48	2.51
Central Stoneroller	N	H	N		40	30.00	5.39	0.07	0.26	2.38
Yellow Bullhead		I	C	T	4	3.00	0.54	0.31	1.14	103.00
Black Bullhead		I	C	P	6	4.50	0.81	0.30	1.10	66.17
Stonecat Madtom		I	C	I	1	0.75	0.13	0.01	0.03	12.00
Tadpole Madtom		I	C		1	0.75	0.13	0.01	0.02	8.00
Blackstripe Topminnow		I	M		1	0.75	0.13	0.00	0.01	2.00
Rock Bass	S	C	C		18	13.50	2.43	0.59	2.17	43.50
Green Sunfish	S	I	C	T	64	48.00	8.63	0.80	2.97	16.72
Bluegill Sunfish	S	I	C	P	3	2.25	0.40	0.06	0.22	26.67
Longear Sunfish	S	I	C	M	17	12.75	2.29	0.36	1.32	27.94
Green Sf X Longear Sf					1	0.75	0.13	0.02	0.06	21.00
Green Sf X Hybrid					2	1.50	0.27	0.08	0.31	55.00
Blackside Darter	D	I	S		27	20.25	3.64	0.06	0.22	2.89
Logperch	D	I	S	M	4	3.00	0.54	0.04	0.14	12.75
Johnny Darter	D	I	C		32	24.00	4.31	0.02	0.08	0.84
Greenside Darter	D	I	S	M	37	27.75	4.99	0.12	0.44	4.26
Banded Darter	D	I	S	I	14	10.50	1.89	0.01	0.04	1.14
Rainbow Darter	D	I	S	M	11	8.25	1.48	0.02	0.06	2.09
Fantail Darter	D	I	C		23	17.25	3.10	0.06	0.21	3.26
<i>Mile Total</i>					742	556.50		27.01		
<i>Number of Species</i>					29					
<i>Number of Hybrids</i>					2					

River Code: 02-165	Stream: Rush Creek	Sample Date: 2009
River Mile: 5.40	Location: dst. Mt. Olive-Greencamp Rd.	Date Range: 06/30/2009
Time Fished: 3491 sec	Drainage: 77.0 sq mi	Thru: 08/10/2009
Dist Fished: 0.40 km	Basin: Scioto River	No of Passes: 2
		Sampler Type: D

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Redfin Pickerel		P	M	P	23	17.25	5.71	0.52	3.10	29.96
Golden Redhorse	R	I	S	M	3	2.25	0.74	0.31	1.84	136.67
Northern Hog Sucker	R	I	S	M	10	7.50	2.48	0.81	4.82	107.30
White Sucker	W	O	S	T	61	45.75	15.14	3.48	20.87	76.15
Common Carp	G	O	M	T	8	6.00	1.99	7.76	46.50	1,293.75
Creek Chub	N	G	N	T	53	39.75	13.15	1.85	11.10	46.60
Redfin Shiner	N	I	N		16	12.00	3.97	0.03	0.20	2.81
Striped Shiner	N	I	S		8	6.00	1.99	0.10	0.58	16.25
Silverjaw Minnow	N	I	M		1	0.75	0.25	0.00	0.01	2.00
Bluntnose Minnow	N	O	C	T	57	42.75	14.14	0.11	0.68	2.65
Central Stoneroller	N	H	N		15	11.25	3.72	0.08	0.50	7.47
Yellow Bullhead		I	C	T	2	1.50	0.50	0.10	0.58	65.00
Black Bullhead		I	C	P	3	2.25	0.74	0.23	1.37	101.67
Tadpole Madtom		I	C		2	1.50	0.50	0.04	0.22	24.50
Blackstripe Topminnow		I	M		1	0.75	0.25	0.00	0.01	2.00
Rock Bass	S	C	C		9	6.75	2.23	0.28	1.67	41.33
Green Sunfish	S	I	C	T	78	58.50	19.35	0.88	5.27	15.03
Longear Sunfish	S	I	C	M	1	0.75	0.25	0.00	0.02	4.00
Green Sf X Bluegill Sf					1	0.75	0.25	0.02	0.13	29.00
Blackside Darter	D	I	S		22	16.50	5.46	0.05	0.27	2.76
Logperch	D	I	S	M	2	1.50	0.50	0.01	0.09	9.50
Johnny Darter	D	I	C		15	11.25	3.72	0.01	0.07	0.93
Greenside Darter	D	I	S	M	5	3.75	1.24	0.01	0.05	2.20
Banded Darter	D	I	S	I	2	1.50	0.50	0.00	0.01	1.50
Fantail Darter	D	I	C		5	3.75	1.24	0.01	0.05	2.20
<i>Mile Total</i>					403	302.25		16.69		
<i>Number of Species</i>					24					
<i>Number of Hybrids</i>					1					

River Code: 02-165	Stream: Rush Creek	Sample Date: 2009
River Mile: 0.60	Location: Larue-Green Camp Rd.	Date Range: 06/30/2009
Time Fished: 2443 sec	Drainage: 105.0 sq mi	Thru: 08/10/2009
Dist Fished: 0.40 km	Basin: Scioto River	Sampler Type: D
	No of Passes: 2	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Redfin Pickerel		P	M	P	19	14.25	9.18	0.24	10.69	16.84
Northern Pike	F	P	M		1	0.75	0.48	0.31	13.70	410.00
Northern Hog Sucker	R	I	S	M	1	0.75	0.48	0.00	0.13	4.00
White Sucker	W	O	S	T	38	28.50	18.36	0.87	38.93	30.66
Creek Chub	N	G	N	T	40	30.00	19.32	0.35	15.43	11.55
Spotfin Shiner	N	I	M		2	1.50	0.97	0.01	0.33	5.00
Bluntnose Minnow	N	O	C	T	34	25.50	16.43	0.05	2.27	2.00
Central Stoneroller	N	H	N		4	3.00	1.93	0.02	0.91	6.75
Yellow Bullhead		I	C	T	3	2.25	1.45	0.10	4.34	43.33
Tadpole Madtom		I	C		1	0.75	0.48	0.01	0.33	10.00
Green Sunfish	S	I	C	T	28	21.00	13.53	0.24	10.69	11.43
Blackside Darter	D	I	S		5	3.75	2.42	0.00	0.20	1.25
Johnny Darter	D	I	C		19	14.25	9.18	0.02	0.73	1.16
Greenside Darter	D	I	S	M	7	5.25	3.38	0.02	1.00	4.21
Banded Darter	D	I	S	I	4	3.00	1.93	0.01	0.27	2.00
Fantail Darter	D	I	C		1	0.75	0.48	0.00	0.04	1.00
<i>Mile Total</i>					207	155.25		2.25		
<i>Number of Species</i>					16					
<i>Number of Hybrids</i>					0					

River Code: 02-166	Stream: McDonald Creek	Sample Date: 2009
River Mile: 9.10	Location: Co. Rd. 240	Date Range: 07/27/2009
Time Fished: 618 sec	Drainage: 2.6 sq mi	
Dist Fished: 0.15 km	Basin: Scioto River	No of Passes: 1
		Sampler Type: E

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
White Sucker	W	O	S	T	1	2.00	0.93			
Fathead Minnow	N	O	C	T	27	54.00	25.00			
Bluntnose Minnow	N	O	C	T	2	4.00	1.85			
Central Stoneroller	N	H	N		75	150.00	69.44			
Orangethroat Darter	D	I	S		3	6.00	2.78			
<i>Mile Total</i>					108	216.00				
<i>Number of Species</i>					5					
<i>Number of Hybrids</i>					0					

River Code: 02-166	Stream: McDonald Creek	Sample Date: 2009
River Mile: 6.80	Location: Co. Rd. 245	Date Range: 07/27/2009
Time Fished: 552 sec	Drainage: 6.3 sq mi	
Dist Fished: 0.15 km	Basin: Scioto River	No of Passes: 1
		Sampler Type: E

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
White Sucker	W	O	S	T	37	74.00	4.07			
Creek Chub	N	G	N	T	86	172.00	9.46			
Redfin Shiner	N	I	N		1	2.00	0.11			
Silverjaw Minnow	N	I	M		119	238.00	13.09			
Fathead Minnow	N	O	C	T	118	236.00	12.98			
Bluntnose Minnow	N	O	C	T	225	450.00	24.75			
Central Stoneroller	N	H	N		293	586.00	32.23			
Yellow Bullhead		I	C	T	4	8.00	0.44			
Johnny Darter	D	I	C		7	14.00	0.77			
Orangethroat Darter	D	I	S		19	38.00	2.09			
<i>Mile Total</i>					909	1,818.00				
<i>Number of Species</i>					10					
<i>Number of Hybrids</i>					0					

River Code: 02-166	Stream: McDonald Creek	Sample Date: 2009
River Mile: 2.70	Location: St. Rt. 37	Date Range: 07/27/2009
Time Fished: 829 sec	Drainage: 12.3 sq mi	
Dist Fished: 0.15 km	Basin: Scioto River	No of Passes: 1
		Sampler Type: E

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
White Sucker	W	O	S	T	24	48.00	6.15			
Creek Chub	N	G	N	T	150	300.00	38.46			
Redfin Shiner	N	I	N		3	6.00	0.77			
Fathead Minnow	N	O	C	T	1	2.00	0.26			
Bluntnose Minnow	N	O	C	T	32	64.00	8.21			
Central Stoneroller	N	H	N		71	142.00	18.21			
Yellow Bullhead		I	C	T	2	4.00	0.51			
Tadpole Madtom		I	C		1	2.00	0.26			
Green Sunfish	S	I	C	T	3	6.00	0.77			
Johnny Darter	D	I	C		70	140.00	17.95			
Greenside Darter	D	I	S	M	1	2.00	0.26			
Orangethroat Darter	D	I	S		32	64.00	8.21			
<i>Mile Total</i>					390	780.00				
<i>Number of Species</i>					12					
<i>Number of Hybrids</i>					0					

River Code: 02-172	Stream: Wildcat Creek	Sample Date: 2009
River Mile: 6.70	Location: Twp. Rd. 217	Date Range: 07/27/2009
Time Fished: 1100 sec	Drainage: 4.3 sq mi	
Dist Fished: 0.15 km	Basin: Scioto River	No of Passes: 1
		Sampler Type: E

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
White Sucker	W	O	S	T	4	8.00	1.20			
Creek Chub	N	G	N	T	27	54.00	8.13			
Striped Shiner	N	I	S		4	8.00	1.20			
Silverjaw Minnow	N	I	M		1	2.00	0.30			
Bluntnose Minnow	N	O	C	T	5	10.00	1.51			
Central Stoneroller	N	H	N		135	270.00	40.66			
Yellow Bullhead		I	C	T	17	34.00	5.12			
Black Bullhead		I	C	P	1	2.00	0.30			
Blackstripe Topminnow		I	M		17	34.00	5.12			
Largemouth Bass	F	C	C		10	20.00	3.01			
Green Sunfish	S	I	C	T	108	216.00	32.53			
Bluegill Sunfish	S	I	C	P	2	4.00	0.60			
Greenside Darter	D	I	S	M	1	2.00	0.30			
<i>Mile Total</i>					332	664.00				
<i>Number of Species</i>					13					
<i>Number of Hybrids</i>					0					

River Code: 02-172	Stream: Wildcat Creek	Sample Date: 2009
River Mile: 4.00	Location: Twp. Rd. 245	Date Range: 07/27/2009
Time Fished: 442 sec	Drainage: 8.4 sq mi	
Dist Fished: 0.15 km	Basin: Scioto River	No of Passes: 1
		Sampler Type: E

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
White Sucker	W	O	S	T	19	38.00	4.06			
Creek Chub	N	G	N	T	77	154.00	16.45			
Redfin Shiner	N	I	N		7	14.00	1.50			
Striped Shiner	N	I	S		3	6.00	0.64			
Sand Shiner	N	I	M	M	4	8.00	0.85			
Silverjaw Minnow	N	I	M		67	134.00	14.32			
Bluntnose Minnow	N	O	C	T	89	178.00	19.02			
Central Stoneroller	N	H	N		87	174.00	18.59			
Yellow Bullhead		I	C	T	3	6.00	0.64			
Blackstripe Topminnow		I	M		5	10.00	1.07			
Green Sunfish	S	I	C	T	10	20.00	2.14			
Johnny Darter	D	I	C		84	168.00	17.95			
Greenside Darter	D	I	S	M	10	20.00	2.14			
Orangethroat Darter	D	I	S		3	6.00	0.64			
<i>Mile Total</i>					468	936.00				
<i>Number of Species</i>					14					
<i>Number of Hybrids</i>					0					

River Code: 02-172	Stream: Wildcat Creek	Sample Date: 2009
River Mile: 0.50	Location: Co. Rd. 209	Date Range: 07/01/2009
Time Fished: 3769 sec	Drainage: 22.2 sq mi	Thru: 08/11/2009
Dist Fished: 0.30 km	Basin: Scioto River	No of Passes: 2
		Sampler Type: E

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Silver Redhorse	R	I	S	M	1	1.00	0.05	0.00	0.04	3.00
White Sucker	W	O	S	T	127	127.00	5.74	1.17	14.31	9.17
Common Carp	G	O	M	T	1	1.00	0.05	0.01	0.15	12.00
Creek Chub	N	G	N	T	68	68.00	3.07	0.77	9.46	11.32
Redfin Shiner	N	I	N		22	22.00	0.99	0.04	0.53	1.95
Striped Shiner	N	I	S		20	20.00	0.90	0.18	2.20	8.95
Spotfin Shiner	N	I	M		47	47.00	2.12	0.08	1.02	1.76
Sand Shiner	N	I	M	M	107	107.00	4.84	0.19	2.34	1.78
Silverjaw Minnow	N	I	M		39	39.00	1.76	0.13	1.54	3.21
Bluntnose Minnow	N	O	C	T	1,105	1,105.00	49.95	2.40	29.41	2.17
Central Stoneroller	N	H	N		231	231.00	10.44	1.66	20.36	7.18
Yellow Bullhead		I	C	T	1	1.00	0.05	0.20	2.46	200.00
Tadpole Madtom		I	C		7	7.00	0.32	0.03	0.38	4.43
Blackstripe Topminnow		I	M		11	11.00	0.50	0.02	0.28	2.09
Rock Bass	S	C	C		1	1.00	0.05	0.01	0.10	8.00
Largemouth Bass	F	C	C		1	1.00	0.05	0.02	0.25	20.00
Green Sunfish	S	I	C	T	79	79.00	3.57	0.58	7.14	7.36
Longear Sunfish	S	I	C	M	9	9.00	0.41	0.12	1.45	13.11
Blackside Darter	D	I	S		5	5.00	0.23	0.02	0.26	4.20
Johnny Darter	D	I	C		260	260.00	11.75	0.36	4.37	1.37
Greenside Darter	D	I	S	M	55	55.00	2.49	0.14	1.67	2.47
Rainbow Darter	D	I	S	M	11	11.00	0.50	0.02	0.24	1.77
Orangethroat Darter	D	I	S		4	4.00	0.18	0.01	0.07	1.50
<i>Mile Total</i>					2,212	2,212.00		8.14		
<i>Number of Species</i>					23					
<i>Number of Hybrids</i>					0					

River Code: 02-175	Stream: Panther Creek	Sample Date: 2009
River Mile: 8.90	Location: Twp. Rd. 197	Date Range: 07/28/2009
Time Fished: 1355 sec	Drainage: 7.1 sq mi	
Dist Fished: 0.15 km	Basin: Scioto River	No of Passes: 1
		Sampler Type: E

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
White Sucker	W	O	S	T	44	88.00	6.89			
Creek Chub	N	G	N	T	159	318.00	24.88			
Redfin Shiner	N	I	N		4	8.00	0.63			
Striped Shiner	N	I	S		70	140.00	10.95			
Silverjaw Minnow	N	I	M		7	14.00	1.10			
Fathead Minnow	N	O	C	T	2	4.00	0.31			
Bluntnose Minnow	N	O	C	T	69	138.00	10.80			
Central Stoneroller	N	H	N		169	338.00	26.45			
Yellow Bullhead		I	C	T	2	4.00	0.31			
Rock Bass	S	C	C		4	8.00	0.63			
Green Sunfish	S	I	C	T	4	8.00	0.63			
Johnny Darter	D	I	C		60	120.00	9.39			
Orangethroat Darter	D	I	S		2	4.00	0.31			
Fantail Darter	D	I	C		43	86.00	6.73			
<i>Mile Total</i>					639	1,278.00				
<i>Number of Species</i>					14					
<i>Number of Hybrids</i>					0					

River Code: 02-175	Stream: Panther Creek	Sample Date: 2009
River Mile: 7.80	Location: St. Rt. 31	Date Range: 07/28/2009
Time Fished: 668 sec	Drainage: 11.0 sq mi	
Dist Fished: 0.15 km	Basin: Scioto River	No of Passes: 1
		Sampler Type: E

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
White Sucker	W	O	S	T	11	22.00	4.70			
Creek Chub	N	G	N	T	98	196.00	41.88			
Bluntnose Minnow	N	O	C	T	26	52.00	11.11			
Central Stoneroller	N	H	N		38	76.00	16.24			
Rock Bass	S	C	C		1	2.00	0.43			
Green Sunfish	S	I	C	T	2	4.00	0.85			
Blackside Darter	D	I	S		1	2.00	0.43			
Johnny Darter	D	I	C		22	44.00	9.40			
Greenside Darter	D	I	S	M	2	4.00	0.85			
Orangethroat Darter	D	I	S		3	6.00	1.28			
Fantail Darter	D	I	C		30	60.00	12.82			
<i>Mile Total</i>					234	468.00				
<i>Number of Species</i>					11					
<i>Number of Hybrids</i>					0					

River Code: 02-175	Stream: Panther Creek	Sample Date: 2009
River Mile: 1.80	Location: Co. Rd. 219	Date Range: 07/01/2009
Time Fished: 1988 sec	Drainage: 22.3 sq mi	Thru: 08/11/2009
Dist Fished: 0.30 km	Basin: Scioto River	Sampler Type: E
	No of Passes: 2	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Northern Hog Sucker	R	I	S	M	7	7.00	1.50	0.01	1.02	1.86
White Sucker	W	O	S	T	34	34.00	7.30	0.10	7.84	2.94
Creek Chub	N	G	N	T	15	15.00	3.22	0.10	7.45	6.34
Redfin Shiner	N	I	N		10	10.00	2.15	0.03	2.27	2.90
Striped Shiner	N	I	S		6	6.00	1.29	0.04	3.37	7.17
Bluntnose Minnow	N	O	C	T	48	48.00	10.30	0.14	10.78	2.86
Central Stoneroller	N	H	N		169	169.00	36.27	0.49	38.27	2.89
Smallmouth Bass	F	C	C	M	10	10.00	2.15	0.04	3.22	4.10
Green Sunfish	S	I	C	T	4	4.00	0.86	0.04	3.45	11.00
Logperch	D	I	S	M	2	2.00	0.43	0.01	0.86	5.50
Johnny Darter	D	I	C		42	42.00	9.01	0.04	2.98	0.90
Greenside Darter	D	I	S	M	65	65.00	13.95	0.14	11.29	2.22
Banded Darter	D	I	S	I	17	17.00	3.65	0.02	1.45	1.08
Rainbow Darter	D	I	S	M	26	26.00	5.58	0.05	3.69	1.81
Orangethroat Darter	D	I	S		4	4.00	0.86	0.02	1.69	5.33
Fantail Darter	D	I	C		7	7.00	1.50	0.01	0.39	0.71
<i>Mile Total</i>					466	466.00		1.28		
<i>Number of Species</i>					16					
<i>Number of Hybrids</i>					0					

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River Code: 02-177	Stream: Wolf Creek	Sample Date: 2009
River Mile: 0.50	Location: Twp. Rd. 199	Date Range: 07/28/2009
Time Fished: 1500 sec	Drainage: 12.0 sq mi	
Dist Fished: 0.15 km	Basin: Scioto River	No of Passes: 1
		Sampler Type: E

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Redfin Pickerel		P	M	P	3	6.00	1.47			
White Sucker	W	O	S	T	35	70.00	17.16			
Creek Chub	N	G	N	T	33	66.00	16.18			
Redfin Shiner	N	I	N		10	20.00	4.90			
Striped Shiner	N	I	S		10	20.00	4.90			
Silverjaw Minnow	N	I	M		1	2.00	0.49			
Bluntnose Minnow	N	O	C	T	17	34.00	8.33			
Central Stoneroller	N	H	N		24	48.00	11.76			
Green Sunfish	S	I	C	T	6	12.00	2.94			
Blackside Darter	D	I	S		1	2.00	0.49			
Johnny Darter	D	I	C		29	58.00	14.22			
Greenside Darter	D	I	S	M	7	14.00	3.43			
Rainbow Darter	D	I	S	M	4	8.00	1.96			
Orangethroat Darter	D	I	S		15	30.00	7.35			
Fantail Darter	D	I	C		9	18.00	4.41			
<i>Mile Total</i>					204	408.00				
<i>Number of Species</i>					15					
<i>Number of Hybrids</i>					0					

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River Code: 02-181	Stream: Taylor Creek	Sample Date: 2009
River Mile: 4.50	Location: Twp. Rd. 180	Date Range: 07/28/2009
Time Fished: 1117 sec	Drainage: 12.7 sq mi	
Dist Fished: 0.15 km	Basin: Scioto River	No of Passes: 1
		Sampler Type: E

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Northern Hog Sucker	R	I	S	M	7	14.00	1.46			
White Sucker	W	O	S	T	64	128.00	13.31			
Creek Chub	N	G	N	T	81	162.00	16.84			
Redfin Shiner	N	I	N		2	4.00	0.42			
Striped Shiner	N	I	S		90	180.00	18.71			
Silverjaw Minnow	N	I	M		7	14.00	1.46			
Bluntnose Minnow	N	O	C	T	66	132.00	13.72			
Central Stoneroller	N	H	N		58	116.00	12.06			
Rock Bass	S	C	C		11	22.00	2.29			
Green Sunfish	S	I	C	T	1	2.00	0.21			
Blackside Darter	D	I	S		1	2.00	0.21			
Johnny Darter	D	I	C		23	46.00	4.78			
Greenside Darter	D	I	S	M	8	16.00	1.66			
Banded Darter	D	I	S	I	1	2.00	0.21			
Rainbow Darter	D	I	S	M	13	26.00	2.70			
Orangethroat Darter	D	I	S		15	30.00	3.12			
Fantail Darter	D	I	C		33	66.00	6.86			
<i>Mile Total</i>					481	962.00				
<i>Number of Species</i>					17					
<i>Number of Hybrids</i>					0					

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River Code: 02-181	Stream: Taylor Creek	Sample Date: 2009
River Mile: 0.80	Location: St. Rt. 67	Date Range: 07/28/2009
Time Fished: 1486 sec	Drainage: 16.3 sq mi	Thru: 08/20/2009
Dist Fished: 0.30 km	Basin: Scioto River	Sampler Type: E
	No of Passes: 2	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Striped Shiner	N	I	S	10	10.00	41.67			
Bluntnose Minnow	N	O	C T	7	7.00	29.17			
Blackstripe Topminnow		I	M	4	4.00	16.67			
Johnny Darter	D	I	C	3	3.00	12.50			
<i>Mile Total</i>				24	24.00				
<i>Number of Species</i>				4					
<i>Number of Hybrids</i>				0					

River Code: 02-181	Stream: Taylor Creek	Sample Date: 2011
River Mile: 0.80	Location: St. Rt. 67	Date Range: 06/29/2011
Time Fished: 1800 sec	Drainage: 16.3 sq mi	
Dist Fished: 0.15 km	Basin: Scioto River	No of Passes: 1
		Sampler Type: E

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
White Sucker	W	O	S	T	51	102.00	5.35			
Common Carp	G	O	M	T	1	2.00	0.10			
Creek Chub	N	G	N	T	55	110.00	5.77			
Redfin Shiner	N	I	N		21	42.00	2.20			
Striped Shiner	N	I	S		58	116.00	6.09			
Sand Shiner	N	I	M	M	25	50.00	2.62			
Silverjaw Minnow	N	I	M		9	18.00	0.94			
Bluntnose Minnow	N	O	C	T	371	742.00	38.93			
Central Stoneroller	N	H	N		213	426.00	22.35			
Black Bullhead		I	C	P	1	2.00	0.10			
Blackstripe Topminnow		I	M		2	4.00	0.21			
Rock Bass	S	C	C		2	4.00	0.21			
Largemouth Bass	F	C	C		2	4.00	0.21			
Green Sunfish	S	I	C	T	12	24.00	1.26			
Bluegill Sunfish	S	I	C	P	25	50.00	2.62			
Longear Sunfish	S	I	C	M	33	66.00	3.46			
Johnny Darter	D	I	C		61	122.00	6.40			
Greenside Darter	D	I	S	M	3	6.00	0.31			
Banded Darter	D	I	S	I	2	4.00	0.21			
Orangethroat Darter	D	I	S		4	8.00	0.42			
Fantail Darter	D	I	C		2	4.00	0.21			
<i>Mile Total</i>					953	1,906.00				
<i>Number of Species</i>					21					
<i>Number of Hybrids</i>					0					

River Code: 02-182	Stream: Silver Creek	Sample Date: 2009
River Mile: 2.30	Location: St. Rt. 67	Date Range: 07/28/2009
Time Fished: 862 sec	Drainage: 11.3 sq mi	
Dist Fished: 0.15 km	Basin: Scioto River	No of Passes: 1
		Sampler Type: E

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Northern Hog Sucker	R	I	S	M	2	4.00	0.45			
White Sucker	W	O	S	T	75	150.00	17.01			
Golden Shiner	N	I	M	T	1	2.00	0.23			
Creek Chub	N	G	N	T	25	50.00	5.67			
Redfin Shiner	N	I	N		36	72.00	8.16			
Striped Shiner	N	I	S		10	20.00	2.27			
Sand Shiner	N	I	M	M	16	32.00	3.63			
Silverjaw Minnow	N	I	M		8	16.00	1.81			
Fathead Minnow	N	O	C	T	13	26.00	2.95			
Bluntnose Minnow	N	O	C	T	100	200.00	22.68			
Central Stoneroller	N	H	N		58	116.00	13.15			
Yellow Bullhead		I	C	T	1	2.00	0.23			
Rock Bass	S	C	C		2	4.00	0.45			
Largemouth Bass	F	C	C		4	8.00	0.91			
Green Sunfish	S	I	C	T	66	132.00	14.97			
Bluegill Sunfish	S	I	C	P	3	6.00	0.68			
Blackside Darter	D	I	S		1	2.00	0.23			
Johnny Darter	D	I	C		16	32.00	3.63			
Greenside Darter	D	I	S	M	1	2.00	0.23			
Rainbow Darter	D	I	S	M	2	4.00	0.45			
Orangethroat Darter	D	I	S		1	2.00	0.23			
<i>Mile Total</i>					441	882.00				
<i>Number of Species</i>					21					
<i>Number of Hybrids</i>					0					

River Code: 02-186	Stream: McCoy Run	Sample Date: 2009
River Mile: 0.60	Location: Rogers Rd.	Date Range: 07/13/2009
Time Fished: 1591 sec	Drainage: 8.0 sq mi	
Dist Fished: 0.15 km	Basin: Scioto River	No of Passes: 1
		Sampler Type: E

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
White Sucker	W	O	S	T	93	186.00	9.93			
Creek Chub	N	G	N	T	30	60.00	3.20			
Redfin Shiner	N	I	N		46	92.00	4.91			
Striped Shiner	N	I	S		42	84.00	4.48			
Fathead Minnow	N	O	C	T	17	34.00	1.81			
Bluntnose Minnow	N	O	C	T	158	316.00	16.86			
Central Stoneroller	N	H	N		311	622.00	33.19			
Yellow Bullhead		I	C	T	2	4.00	0.21			
Black Bullhead		I	C	P	1	2.00	0.11			
Blackstripe Topminnow		I	M		17	34.00	1.81			
Rock Bass	S	C	C		51	102.00	5.44			
Green Sunfish	S	I	C	T	14	28.00	1.49			
Bluegill Sunfish	S	I	C	P	1	2.00	0.11			
Longear Sunfish	S	I	C	M	33	66.00	3.52			
Blackside Darter	D	I	S		1	2.00	0.11			
Johnny Darter	D	I	C		59	118.00	6.30			
Greenside Darter	D	I	S	M	3	6.00	0.32			
Rainbow Darter	D	I	S	M	1	2.00	0.11			
Orangethroat Darter	D	I	S		56	112.00	5.98			
Fantail Darter	D	I	C		1	2.00	0.11			
<i>Mile Total</i>					937	1,874.00				
<i>Number of Species</i>					20					
<i>Number of Hybrids</i>					0					

River Code: 02-188	Stream: Cottonwood Ditch	Sample Date: 2009
River Mile: 4.10	Location: adj. Twp. Rd. 100, dst. Alger	Date Range: 07/21/2009
Time Fished: 811 sec	Drainage: 11.3 sq mi	
Dist Fished: 0.15 km	Basin: Scioto River	No of Passes: 1
		Sampler Type: E

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Redfin Pickerel		P	M	P	1	2.00	0.38			
White Sucker	W	O	S	T	1	2.00	0.38			
Golden Shiner	N	I	M	T	8	16.00	3.02			
Creek Chub	N	G	N	T	35	70.00	13.21			
Redfin Shiner	N	I	N		1	2.00	0.38			
Striped Shiner	N	I	S		2	4.00	0.75			
Spotfin Shiner	N	I	M		1	2.00	0.38			
Silverjaw Minnow	N	I	M		7	14.00	2.64			
Fathead Minnow	N	O	C	T	60	120.00	22.64			
Bluntnose Minnow	N	O	C	T	48	96.00	18.11			
Central Stoneroller	N	H	N		42	84.00	15.85			
Blackstripe Topminnow		I	M		44	88.00	16.60			
Green Sunfish	S	I	C	T	4	8.00	1.51			
Johnny Darter	D	I	C		11	22.00	4.15			
<i>Mile Total</i>					265	530.00				
<i>Number of Species</i>					14					
<i>Number of Hybrids</i>					0					

River Code: 02-188	Stream: Cottonwood Ditch	Sample Date: 2009
River Mile: 0.70	Location: RR bridge dst. McGuffey	Date Range: 07/21/2009
Time Fished: 929 sec	Drainage: 19.3 sq mi	
Dist Fished: 0.15 km	Basin: Scioto River	No of Passes: 1
		Sampler Type: E

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
White Sucker	W	O	S	T	4	8.00	2.02			
Redfin Shiner	N	I	N		40	80.00	20.20			
Striped Shiner	N	I	S		4	8.00	2.02			
Spotfin Shiner	N	I	M		11	22.00	5.56			
Bluntnose Minnow	N	O	C	T	16	32.00	8.08			
Channel Catfish	F		C		3	6.00	1.52			
Yellow Bullhead		I	C	T	3	6.00	1.52			
Black Bullhead		I	C	P	1	2.00	0.51			
Blackstripe Topminnow		I	M		8	16.00	4.04			
Green Sunfish	S	I	C	T	47	94.00	23.74			
Bluegill Sunfish	S	I	C	P	2	4.00	1.01			
Longear Sunfish	S	I	C	M	58	116.00	29.29			
Logperch	D	I	S	M	1	2.00	0.51			
<i>Mile Total</i>					198	396.00				
<i>Number of Species</i>					13					
<i>Number of Hybrids</i>					0					

Species List

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River Code: 02-190	Stream: Dunlap Creek	Sample Date: 2009
River Mile: 0.10	Location: St. Rt. 195	Date Range: 07/21/2009
Time Fished: 661 sec	Drainage: 8.9 sq mi	
Dist Fished: 0.15 km	Basin: Scioto River	No of Passes: 1
		Sampler Type: E

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Redfin Pickerel		P	M	P	2	4.00	1.23			
White Sucker	W	O	S	T	15	30.00	9.20			
Golden Shiner	N	I	M	T	3	6.00	1.84			
Creek Chub	N	G	N	T	1	2.00	0.61			
Redfin Shiner	N	I	N		17	34.00	10.43			
Spotfin Shiner	N	I	M		1	2.00	0.61			
Fathead Minnow	N	O	C	T	2	4.00	1.23			
Bluntnose Minnow	N	O	C	T	3	6.00	1.84			
Central Stoneroller	N	H	N		6	12.00	3.68			
Black Bullhead		I	C	P	3	6.00	1.84			
Blackstripe Topminnow		I	M		24	48.00	14.72			
Rock Bass	S	C	C		2	4.00	1.23			
Green Sunfish	S	I	C	T	56	112.00	34.36			
Bluegill Sunfish	S	I	C	P	2	4.00	1.23			
Longear Sunfish	S	I	C	M	13	26.00	7.98			
Johnny Darter	D	I	C		13	26.00	7.98			
<i>Mile Total</i>					163	326.00				
<i>Number of Species</i>					16					
<i>Number of Hybrids</i>					0					

River Code: 02-193	Stream: Wallace Fork	Sample Date: 2011
River Mile: 0.20	Location: adj. gravel road	Date Range: 06/29/2011
Time Fished: 1800 sec	Drainage: 4.8 sq mi	
Dist Fished: 0.15 km	Basin: Scioto River	No of Passes: 1
		Sampler Type: E

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Redfin Pickerel		P	M	P	5	10.00	7.14			
Western Blacknose Dace	N	G	S	T	1	2.00	1.43			
Creek Chub	N	G	N	T	13	26.00	18.57			
Yellow Bullhead		I	C	T	3	6.00	4.29			
Tadpole Madtom		I	C		3	6.00	4.29			
Blackstripe Topminnow		I	M		4	8.00	5.71			
Green Sunfish	S	I	C	T	6	12.00	8.57			
Bluegill Sunfish	S	I	C	P	3	6.00	4.29			
Johnny Darter	D	I	C		3	6.00	4.29			
Orangethroat Darter	D	I	S		29	58.00	41.43			
<i>Mile Total</i>					70	140.00				
<i>Number of Species</i>					10					
<i>Number of Hybrids</i>					0					

River Code: 02-237	Stream: North Rockswale Ditch	Sample Date: 2009
River Mile: 0.60	Location: Holland Rd.	Date Range: 07/29/2009
Time Fished: 763 sec	Drainage: 10.0 sq mi	
Dist Fished: 0.15 km	Basin: Scioto River	No of Passes: 1
		Sampler Type: E

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Creek Chub	N	G	N	T	16	32.00	40.00			
Fathead Minnow	N	O	C	T	3	6.00	7.50			
Bluntnose Minnow	N	O	C	T	1	2.00	2.50			
Central Stoneroller	N	H	N		14	28.00	35.00			
Green Sunfish	S	I	C	T	4	8.00	10.00			
Johnny Darter	D	I	C		2	4.00	5.00			
<i>Mile Total</i>					40	80.00				
<i>Number of Species</i>					6					
<i>Number of Hybrids</i>					0					

River Code: 02-374	Stream: Elliot Run	Sample Date: 2009
River Mile: 1.30	Location: Kinney Pike	Date Range: 07/29/2009
Time Fished: 827 sec	Drainage: 2.5 sq mi	
Dist Fished: 0.15 km	Basin: Scioto River	No of Passes: 1
		Sampler Type: E

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Redfin Pickerel		P	M	P	1	2.00	14.29		
Blackstripe Topminnow		I	M		1	2.00	14.29		
Johnny Darter	D	I	C		1	2.00	14.29		
Orangethroat Darter	D	I	S		4	8.00	57.14		
	<i>Mile Total</i>			7	14.00				
	<i>Number of Species</i>			4					
	<i>Number of Hybrids</i>			0					

River Code: 02-374	Stream: Elliot Run	Sample Date: 2011
River Mile: 1.30	Location: Kinney Pike	Date Range: 06/29/2011
Time Fished: 1800 sec	Drainage: 2.5 sq mi	
Dist Fished: 0.15 km	Basin: Scioto River	No of Passes: 1
		Sampler Type: E

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Creek Chub	N	G	N	T	9	18.00	36.00			
Redfin Shiner	N	I	N		2	4.00	8.00			
Bluntnose Minnow	N	O	C	T	3	6.00	12.00			
Blackstripe Topminnow		I	M		4	8.00	16.00			
Johnny Darter	D	I	C		1	2.00	4.00			
Orangethroat Darter	D	I	S		6	12.00	24.00			
<i>Mile Total</i>					25	50.00				
<i>Number of Species</i>					6					
<i>Number of Hybrids</i>					0					

Appendix D-1

Macroinvertebrate ICI Scores and Metrics, 2009 & 2011

River Mile	Drainage Area (sq mi)	Number of				Percent:					Qual. EPT	Eco- region	ICI	
		Total Taxa	Mayfly Taxa	Caddisfly Taxa	Dipteran Taxa	Mayflies	Caddis- flies	Tany- tarsini	Other Dipt/NI	Tolerant Organisms				
Scioto River (02-001)														
Year: 2009														
231.80	28.0	43(6)	4(2)	6(6)	24(6)	2.9(2)	1.2(2)	64.6(6)	31.0(4)	2.2(6)	14(6)	5	46	
226.30	49.0	34(4)	3(2)	4(6)	18(4)	3.0(2)	9.8(4)	32.2(6)	50.9(2)	5.7(6)	10(4)	5	40	
224.20	62.0	47(6)	7(4)	5(6)	23(6)	9.1(2)	37.7(6)	16.8(4)	34.5(4)	6.8(4)	8(2)	5	44	
222.80	67.0	42(6)	11(6)	5(6)	18(4)	36.3(6)	26.7(6)	11.3(2)	21.5(6)	3.5(6)	16(6)	5	54	
216.67	117.0	40(6)	4(2)	3(4)	25(6)	6.6(2)	5.9(2)	22.2(4)	64.5(0)	2.4(6)	9(2)	5	34	
211.50	162.0	37(6)	8(4)	4(4)	18(6)	15.6(2)	15.7(4)	24.8(4)	37.7(4)	5.8(4)	21(6)	5	44	
210.07	170.0	42(6)	7(4)	7(6)	20(6)	9.1(2)	1.3(2)	25.8(4)	63.7(0)	1.9(6)	13(4)	5	40	
207.60	178.0	46(6)	6(4)	9(6)	19(6)	0.5(2)	15.0(4)	8.3(2)	75.1(0)	4.0(6)	18(6)	5	42	
203.36	223.0	36(4)	10(6)	5(6)	15(4)	6.2(2)	15.7(4)	51.1(6)	26.1(4)	0.9(6)	16(6)	5	48	
196.60	258.0	42(6)	11(6)	5(6)	19(6)	41.9(6)	22.9(4)	14.5(2)	17.9(6)	1.7(6)	13(4)	5	52	
192.20	262.0	31(4)	7(4)	5(6)	15(4)	37.0(6)	37.0(6)	9.2(2)	11.7(6)	0.8(6)	12(4)	5	48	
186.00	379.0	45(6)	11(6)	3(4)	24(6)	56.5(6)	15.2(4)	3.2(2)	23.2(4)	2.6(6)	11(2)	5	46	
179.05	407.0	35(4)	7(4)	2(2)	17(6)	28.5(4)	2.3(2)	11.2(2)	51.2(0)	6.2(2)	12(4)	5	30	
Fulton Creek (02-145)														
Year: 2009														
10.35	24.9	38(6)	9(6)	1(2)	18(4)	17.4(4)	0.9(2)	18.6(4)	61.5(2)	10.9(4)	10(4)	5	38	
9.40	28.2	34(4)	4(2)	1(2)	15(4)	0.9(2)	18.6(6)	21.9(4)	57.0(2)	2.3(6)	1(0)	5	32	
6.44	40.0	31(4)	5(2)	2(4)	14(4)	37.2(6)	7.4(4)	9.4(2)	44.9(4)	4.8(6)	6(2)	5	38	
Little Scioto River (02-158)														
Year: 2009														
9.24	73.0	39(6)	7(4)	2(4)	20(6)	13.8(2)	0.8(2)	9.8(2)	72.6(0)	11.7(2)	12(4)	5	32	
6.50	86.0	22(2)	0(0)	1(2)	13(2)	0.0(0)	0.2(2)	0.7(2)	98.6(0)	36.5(0)	2(0)	5	10	
6.24	86.0	23(2)	2(0)	1(2)	13(2)	0.2(2)	0.2(2)	1.4(2)	96.0(0)	49.6(0)	4(0)	5	12	
Rock Fork (02-162)														
Year: 2009														
1.10	23.1	38(6)	7(6)	1(2)	24(6)	31.5(6)	1.3(2)	16.2(4)	49.2(2)	9.5(4)	16(6)	5	44	
Rush Creek (02-165)														
Year: 2009														
26.26	25.7	39(6)	8(6)	4(6)	21(6)	11.0(2)	1.8(2)	42.9(6)	41.7(4)	8.5(4)	17(6)	5	48	
8.80	74.0	26(4)	5(2)	1(2)	11(2)	2.2(2)	0.2(2)	1.5(2)	89.7(0)	4.8(6)	11(4)	5	26	
7.55	74.0	29(4)	3(2)	1(2)	16(4)	35.6(6)	0.5(2)	2.7(2)	58.7(2)	5.3(6)	10(4)	5	34	
5.39	77.0	32(4)	8(4)	1(2)	13(2)	53.8(6)	6.2(2)	8.8(2)	29.1(4)	1.8(6)	14(6)	5	38	
0.55	105.0	37(4)	9(6)	2(2)	14(4)	13.8(2)	1.6(2)	19.6(4)	64.0(0)	11.6(2)	9(2)	5	28	
Wildcat Creek (02-172)														
Year: 2009														
0.49	22.2	43(6)	8(6)	4(6)	19(4)	3.9(2)	1.2(2)	22.4(4)	62.8(2)	13.4(4)	10(4)	5	40	
Taylor Creek (02-181)														
Year: 2011														

River Mile	Drainage Area (sq mi)	Number of				Percent:					Qual. EPT	Eco- region	ICI	
		Total Taxa	Mayfly Taxa	Caddisfly Taxa	Dipteran Taxa	Mayflies	Caddis- flies	Tany- tarsini	Other Dipt/NI	Tolerant Organisms				
Taylor Creek (02-181)														
Year: 2011														
0.76	16.3	42(6)	8(6)	3(6)	19(4)	29.4(6)	3.9(4)	10.6(2)	50.7(2)	3.8(6)	15(6)	5	48	
Year: 2009														
4.43	12.7	30(4)	6(4)	0(0)	16(4)	5.2(2)	0.0(0)	7.7(2)	86.3(0)	13.2(4)	13(6)	5	26	
0.76 C	16.3	34(4)	2(0)	2(4)	17(4)	1.0(2)	0.4(2)	0.9(2)	85.4(0)	29.2(0)	9(4)	5	22	
Cottonwood Ditch (02-188)														
Year: 2009														
0.68	19.3	42(6)	2(0)	5(6)	18(4)	0.1(2)	2.8(4)	2.9(2)	79.6(0)	4.1(6)	7(2)	5	32	

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Scioto River

Collection Date: 07/07/2011 River Code: 02-001 RM: 211.50

upst. Kenton WWTP

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
03360	<i>Plumatella sp</i>	+	84300	<i>Phaenopsectra obediens group</i>	+
03600	<i>Oligochaeta</i>	+	84450	<i>Polypedilum (Uresipedilum) flavum</i>	+
04686	<i>Placobdella papillifera</i>	+	84470	<i>Polypedilum (P.) illinoense</i>	+
04960	<i>Mooreobdella sp</i>	+	84700	<i>Stenochironomus sp</i>	+
05900	<i>Lirceus sp</i>	+	84800	<i>Tribelos jucundum</i>	+
06201	<i>Hyalella azteca</i>	+	85500	<i>Paratanytarsus sp</i>	+
06700	<i>Crangonyx sp</i>	+	85625	<i>Rheotanytarsus sp</i>	+
08250	<i>Orconectes (Procericambarus) rusticus</i>	+	85840	<i>Tanytarsus sepp</i>	+
11020	<i>Acerpenna pygmaea</i>	+	95100	<i>Physella sp</i>	+
11120	<i>Baetis flavistriga</i>	+	99100	<i>Pyganodon grandis</i>	+
11125	<i>Labiobaetis frondalis</i>	+	99420	<i>Amblema plicata plicata</i>	+
11130	<i>Baetis intercalaris</i>	+	99680	<i>Leptodea fragilis</i>	+
11650	<i>Procloeon sp (w/ hindwing pads)</i>	+	99860	<i>Lampsilis radiata luteola</i>	+
12200	<i>Isonychia sp</i>	+			
13000	<i>Leucrocuta sp</i>	+	No. Quantitative Taxa: 0		Total Taxa: 57
13100	<i>Nixe sp</i>	+	No. Qualitative Taxa: 57		ICI:
13400	<i>Stenacron sp</i>	+	Number of Organisms: 0		Qual EPT: 22
13521	<i>Stenonema femoratum</i>	+			
13561	<i>Maccaffertium pulchellum</i>	+			
13570	<i>Maccaffertium terminatum</i>	+			
16700	<i>Tricorythodes sp</i>	+			
17200	<i>Caenis sp</i>	+			
18600	<i>Ephemera sp</i>	+			
19102	<i>Ephoron album</i>	+			
22001	<i>Coenagrionidae</i>	+			
22300	<i>Argia sp</i>	+			
28500	<i>Libellula sp</i>	+			
43300	<i>Ranatra sp</i>	+			
50315	<i>Chimarra obscura</i>	+			
51400	<i>Nyctiophylax sp</i>	+			
51600	<i>Polycentropus sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
52430	<i>Ceratopsyche morosa group</i>	+			
59410	<i>Nectopsyche diarina</i>	+			
65700	<i>Anacaena sp</i>	+			
65800	<i>Berosus sp</i>	+			
68130	<i>Helichus sp</i>	+			
68708	<i>Dubiraphia vittata group</i>	+			
68901	<i>Macronychus glabratus</i>	+			
69400	<i>Stenelmis sp</i>	+			
77120	<i>Ablabesmyia mallochi</i>	+			
82820	<i>Cryptochironomus sp</i>	+			
83040	<i>Dicrotendipes neomodestus</i>	+			
83840	<i>Microtendipes pedellus group</i>	+			

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Scioto River

Collection Date: 07/07/2011 River Code: 02-001 RM: 210.07

Co. Rd. 175

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
03040	<i>Fredericella sp</i>	+			
03360	<i>Plumatella sp</i>	+			
03600	<i>Oligochaeta</i>	+			
04960	<i>Mooreobdella sp</i>	+			
06700	<i>Crangonyx sp</i>	+			
08250	<i>Orconectes (Procericambarus) rusticus</i>	+			
08601	<i>Hydrachnidia</i>	+			
11120	<i>Baetis flavistriga</i>	+			
11130	<i>Baetis intercalaris</i>	+			
11150	<i>Labiobaetis propinquus</i>	+			
11650	<i>Procloeon sp (w/ hindwing pads)</i>	+			
12200	<i>Isonychia sp</i>	+			
13000	<i>Leucrocuta sp</i>	+			
13100	<i>Nixe sp</i>	+			
13400	<i>Stenacron sp</i>	+			
13540	<i>Maccaffertium mediopunctatum</i>	+			
13570	<i>Maccaffertium terminatum</i>	+			
16700	<i>Tricorythodes sp</i>	+			
17200	<i>Caenis sp</i>	+			
19102	<i>Ephoron album</i>	+			
22001	<i>Coenagrionidae</i>	+			
22300	<i>Argia sp</i>	+			
51600	<i>Polycentropus sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
52430	<i>Ceratopsyche morosa group</i>	+			
53800	<i>Hydroptila sp</i>	+			
59410	<i>Nectopsyche diarina</i>	+			
65800	<i>Berosus sp</i>	+			
68700	<i>Dubiraphia sp</i>	+			
69400	<i>Stenelmis sp</i>	+			
77120	<i>Ablabesmyia mallochi</i>	+			
80410	<i>Cricotopus (C.) sp</i>	+			
80440	<i>Cricotopus (C.) trifascia</i>	+			
82141	<i>Thienemanniella xena</i>	+			
82730	<i>Chironomus (C.) decorus group</i>	+			
82820	<i>Cryptochironomus sp</i>	+			
84300	<i>Phaenopsectra obediens group</i>	+			
84470	<i>Polypedilum (P.) illinoense</i>	+			
84800	<i>Tribelos jucundum</i>	+			
84960	<i>Pseudochironomus sp</i>	+			
85800	<i>Tanytarsus sp</i>	+			
96900	<i>Ferrissia sp</i>	+			
99860	<i>Lampsilis radiata luteola</i>	+			

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Scioto River

Collection Date: 07/07/2011 River Code: 02-001 RM: 203.36

Co. Rd. 227

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
03600	<i>Oligochaeta</i>	+	99120	<i>Utterbackia imbecillis</i>	+
05900	<i>Lirceus sp</i>	+	99200	<i>Alasmidonta marginata</i>	+
08250	<i>Orconectes (Procericambarus) rusticus</i>	+	99240	<i>Lasmigona complanata</i>	+
11130	<i>Baetis intercalaris</i>	+	99280	<i>Lasmigona costata</i>	+
11650	<i>Procloeon sp (w/ hindwing pads)</i>	+	99860	<i>Lampsilis radiata luteola</i>	+
11670	<i>Procloeon viridoculare</i>	+	99880	<i>Lampsilis cardium</i>	+
13000	<i>Leucrocuta sp</i>	+			
13100	<i>Nixe sp</i>	+	No. Quantitative Taxa: 0		Total Taxa: 50
13400	<i>Stenacron sp</i>	+	No. Qualitative Taxa: 50		ICI:
13570	<i>Maccaffertium terminatum</i>	+	Number of Organisms: 0		Qual EPT: 17
16700	<i>Tricorythodes sp</i>	+			
17200	<i>Caenis sp</i>	+			
18600	<i>Ephemera sp</i>	+			
18700	<i>Hexagenia sp</i>	+			
42700	<i>Belostoma sp</i>	+			
44501	<i>Corixidae</i>	+			
51400	<i>Nyctiophylax sp</i>	+			
51600	<i>Polycentropus sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
52430	<i>Ceratopsyche morosa group</i>	+			
57400	<i>Neophylax sp</i>	+			
59410	<i>Nectopsyche diarina</i>	+			
59970	<i>Petrophila sp</i>	+			
65800	<i>Berosus sp</i>	+			
68075	<i>Psephenus herricki</i>	+			
68130	<i>Helichus sp</i>	+			
69400	<i>Stenelmis sp</i>	+			
77120	<i>Ablabesmyia mallochi</i>	+			
77500	<i>Conchapelopia sp</i>	+			
78655	<i>Procladius (Holotanypus) sp</i>	+			
80420	<i>Cricotopus (C.) bicinctus</i>	+			
81825	<i>Rheocricotopus (Psilocricotopus) robacki</i>	+			
82141	<i>Thienemanniella xena</i>	+			
82600	<i>Axarus sp</i>	+			
82730	<i>Chironomus (C.) decorus group</i>	+			
82820	<i>Cryptochironomus sp</i>	+			
83040	<i>Dicrotendipes neomodestus</i>	+			
83158	<i>Endochironomus nigricans</i>	+			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	+			
84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+			
84700	<i>Stenochironomus sp</i>	+			
84800	<i>Tribelos jucundum</i>	+			
85821	<i>Tanytarsus glabrescens group sp 7</i>	+			
99100	<i>Pyganodon grandis</i>	+			

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Scioto River

Collection Date: 08/03/2009 River Code: 02-001 RM: 234.30

Arbogast Rd.

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+	84300	<i>Phaenopsectra obediens group</i>	+
03040	<i>Fredericella sp</i>	+	84450	<i>Polypedilum (Uresipedilum) flavum</i>	+
03600	<i>Oligochaeta</i>	+	84480	<i>Polypedilum (P.) laetum group</i>	+
05900	<i>Lirceus sp</i>	+	84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+
08250	<i>Orconectes (Procericambarus) rusticus</i>	+	84750	<i>Stictochironomus sp</i>	+
11020	<i>Acerpenna pygmaea</i>	+	85720	<i>Stempellinella fimbriata</i>	+
11120	<i>Baetis flavistriga</i>	+	85800	<i>Tanytarsus sp</i>	+
11125	<i>Labiobaetis frondalis</i>	+	95100	<i>Physella sp</i>	+
11130	<i>Baetis intercalaris</i>	+	96900	<i>Ferrissia sp</i>	+
13400	<i>Stenacron sp</i>	+	98600	<i>Sphaerium sp</i>	+
13521	<i>Stenonema femoratum</i>	+			
13561	<i>Maccaffertium pulchellum</i>	+	No. Quantitative Taxa: 0		Total Taxa: 54
17200	<i>Caenis sp</i>	+	No. Qualitative Taxa: 54		ICI:
21200	<i>Calopteryx sp</i>	+	Number of Organisms: 0		Qual EPT: 13
22001	<i>Coenagrionidae</i>	+			
22300	<i>Argia sp</i>	+			
23909	<i>Boyeria vinosa</i>	+			
45100	<i>Palmacorixa sp</i>	+			
47600	<i>Sialis sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
52430	<i>Ceratopsyche morosa group</i>	+			
52530	<i>Hydropsyche depravata group</i>	+			
58505	<i>Helicopsyche borealis</i>	+			
59300	<i>Mystacides sp</i>	+			
68130	<i>Helichus sp</i>	+			
68702	<i>Dubiraphia bivittata</i>	+			
68707	<i>Dubiraphia quadrinotata</i>	+			
68708	<i>Dubiraphia vittata group</i>	+			
68901	<i>Macronychus glabratus</i>	+			
69400	<i>Stenelmis sp</i>	+			
71100	<i>Hexatoma sp</i>	+			
72700	<i>Anopheles sp</i>	+			
74501	<i>Ceratopogonidae</i>	+			
77500	<i>Conchapelopia sp</i>	+			
77800	<i>Helopelopia sp</i>	+			
78140	<i>Labrundinia pilosella</i>	+			
78655	<i>Procladius (Holotanypus) sp</i>	+			
81650	<i>Parametriocnemus sp</i>	+			
82820	<i>Cryptochironomus sp</i>	+			
82885	<i>Cryptotendipes pseudotener</i>	+			
83820	<i>Microtendipes "caelum" (sensu Simpson & Bode, 1980)</i>	+			
83840	<i>Microtendipes pedellus group</i>	+			
84155	<i>Paralauterborniella nigrohalteralis</i>	+			
84210	<i>Paratendipes albimanus</i> or <i>P. duplicatus</i>	+			

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Scioto River

Collection Date: 08/10/2009 River Code: 02-001 RM: 231.80

dst. Madory Rd.

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
00401	<i>Spongillidae</i>	+	80430	<i>Cricotopus (C.) tremulus group</i>	50 +
01801	<i>Turbellaria</i>	7	81270	<i>Nanocladius (N.) spinipennis</i>	151
03600	<i>Oligochaeta</i>	4 +	81690	<i>Paratrichocladius sp</i>	151
05900	<i>Lirceus sp</i>	+	81825	<i>Rheocricotopus (Psilocricotopus) robacki</i>	50
06201	<i>Hyalella azteca</i>	+	82121	<i>Thienemanniella lobapodema</i>	16
06700	<i>Crangonyx sp</i>	+	82200	<i>Tvetenia bavarica group</i>	+
08601	<i>Hydrachnidia</i>	16 +	82820	<i>Cryptochironomus sp</i>	+
11120	<i>Baetis flavistriga</i>	44 +	82885	<i>Cryptotendipes pseudotener</i>	+
11130	<i>Baetis intercalaris</i>	13 +	83040	<i>Dicrotendipes neomodestus</i>	+
13400	<i>Stenacron sp</i>	54 +	83820	<i>Microtendipes "caelum" (sensu Simpson & Bode, 1980)</i>	151 +
17200	<i>Caenis sp</i>	26 +	83840	<i>Microtendipes pedellus group</i>	151 +
21200	<i>Calopteryx sp</i>	2 +	84210	<i>Paratendipes albimanus or P. duplicatus</i>	50 +
22001	<i>Coenagrionidae</i>	+	84300	<i>Phaenopsectra obediens group</i>	+
23600	<i>Aeshna sp</i>	+	84315	<i>Phaenopsectra flavipes</i>	+
23909	<i>Boyeria vinosa</i>	+	84450	<i>Polypedilum (Uresipedilum) flavum</i>	+
45100	<i>Palmacorixa sp</i>	+	84540	<i>Polypedilum (Tripodura) scalaenum group</i>	50
47600	<i>Sialis sp</i>	1 +	84700	<i>Stenochironomus sp</i>	+
50804	<i>Lype diversa</i>	8 +	84800	<i>Tribelos jucundum</i>	+
51600	<i>Polycentropus sp</i>	5 +	85261	<i>Cladotanytarsus vanderwulpi group sp 1</i>	50
52200	<i>Cheumatopsyche sp</i>	33 +	85500	<i>Paratanytarsus sp</i>	252
52430	<i>Ceratopsyche morosa group</i>	10 +	85615	<i>Rheotanytarsus pellucidus</i>	402 +
52530	<i>Hydropsyche depravata group</i>	2 +	85625	<i>Rheotanytarsus sp</i>	301 +
53800	<i>Hydroptila sp</i>	1 +	85720	<i>Stempellinella fimbriata</i>	100
57900	<i>Pycnopsyche sp</i>	+	85800	<i>Tanytarsus sp</i>	402 +
58505	<i>Helicopsyche borealis</i>	+	85802	<i>Tanytarsus n. sp nr. curticornis</i>	603 +
59310	<i>Mystacides sepulchralis</i>	+	85821	<i>Tanytarsus glabrescens group sp 7</i>	954 +
59500	<i>Oecetis sp</i>	+	86100	<i>Chrysops sp</i>	+
66500	<i>Enochrus sp</i>	+	87510	<i>Neoplasta sp</i>	8
68201	<i>Scirtidae</i>	+	87540	<i>Hemerodromia sp</i>	1 +
68601	<i>Ancyronyx variegata</i>	+	95100	<i>Physella sp</i>	12 +
68702	<i>Dubiraphia bivittata</i>	+	96900	<i>Ferrissia sp</i>	87 +
68707	<i>Dubiraphia quadrinotata</i>	+	98200	<i>Pisidium sp</i>	+
68901	<i>Macronychus glabratus</i>	5 +	98600	<i>Sphaerium sp</i>	+
69225	<i>Optioservus fastiditus</i>	+			
69400	<i>Stenelmis sp</i>	9 +			
70600	<i>Antocha sp</i>	16	No. Quantitative Taxa: 43		Total Taxa: 77
70700	<i>Dicranota sp</i>	+	No. Qualitative Taxa: 65		ICI: 46
74100	<i>Simulium sp</i>	+	Number of Organisms: 4746		Qual EPT: 14
77500	<i>Conchapelopia sp</i>	322 +			
77800	<i>Helopelopia sp</i>	80 +			
78450	<i>Nilotanypus fimbriatus</i>	80 +			
78655	<i>Procladius (Holotanypus) sp</i>	+			
79400	<i>Zavreliomyia sp</i>	+			
80360	<i>Corynoneura "celeripes" (sensu Simpson & Bode, 1980)</i>	16			

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Scioto River
upst. Co. Rd. 130

Collection Date: 08/11/2009 River Code: 02-001 RM: 226.30

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	68 +	84450	<i>Polypedilum (Uresipedilum) flavum</i>	+
03600	<i>Oligochaeta</i>	8 +	84460	<i>Polypedilum (P.) fallax group</i>	78
05900	<i>Lirceus sp</i>	1 +	84540	<i>Polypedilum (Tripodura) scalaenum group</i>	78
06201	<i>Hyalella azteca</i>	8 +	85261	<i>Cladotanytarsus vanderwulpi group sp 1</i>	16 +
06700	<i>Crangonyx sp</i>	+	85500	<i>Paratanytarsus sp</i>	78
11130	<i>Baetis intercalaris</i>	+	85625	<i>Rheotanytarsus sp</i>	47
11200	<i>Callibaetis sp</i>	+	85800	<i>Tanytarsus sp</i>	31 +
13400	<i>Stenacron sp</i>	9 +	85802	<i>Tanytarsus n. sp nr. curticornis</i>	78
13510	<i>Maccaffertium exiguum</i>	+	85821	<i>Tanytarsus glabrescens group sp 7</i>	295
16700	<i>Tricorythodes sp</i>	8 +	85840	<i>Tanytarsus sepp</i>	47
17200	<i>Caenis sp</i>	39 +	95100	<i>Physella sp</i>	18 +
18700	<i>Hexagenia sp</i>	+			
22001	<i>Coenagrionidae</i>	+	No. Quantitative Taxa: 34		Total Taxa: 54
22300	<i>Argia sp</i>	17 +	No. Qualitative Taxa: 39		ICI: 40
43300	<i>Ranatra sp</i>	+	Number of Organisms: 1838		Qual EPT: 10
45100	<i>Palmacorixa sp</i>	+			
51300	<i>Neureclipsis sp</i>	1			
52200	<i>Cheumatopsyche sp</i>	139 +			
52430	<i>Ceratopsyche morosa group</i>	3 +			
52530	<i>Hydropsyche depravata group</i>	+			
53800	<i>Hydroptila sp</i>	38			
60400	<i>Gyrinus sp</i>	+			
65800	<i>Berosus sp</i>	+			
67800	<i>Tropisternus sp</i>	+			
68702	<i>Dubiraphia bivittata</i>	+			
68708	<i>Dubiraphia vittata group</i>	24 +			
68901	<i>Macronychus glabratus</i>	31 +			
69225	<i>Optioservus fastiditus</i>	+			
69400	<i>Stenelmis sp</i>	1 +			
71900	<i>Tipula sp</i>	+			
74100	<i>Simulium sp</i>	+			
77120	<i>Ablabesmyia mallochi</i>	31 +			
77500	<i>Conchapelopia sp</i>	16			
77750	<i>Hayesomyia senata or Thienemannimyia norena</i>	106			
77800	<i>Helopelopia sp</i>	81			
80370	<i>Corynoneura lobata</i>	8			
80420	<i>Cricotopus (C.) bicinctus</i>	+			
82820	<i>Cryptochironomus sp</i>	+			
82885	<i>Cryptotendipes pseudotener</i>	+			
83040	<i>Dicrotendipes neomodestus</i>	62 +			
83820	<i>Microtendipes "caelum" (sensu Simpson & Bode, 1980)</i>	155			
83840	<i>Microtendipes pedellus group</i>	140 +			
84210	<i>Paratendipes albimanus or P. duplicatus</i>	78			

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Scioto River

Collection Date: 08/11/2009 River Code: 02-001 RM: 224.20

Co. Rd. 65

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	35	82130	<i>Thienemanniella similis</i>	4
03600	<i>Oligochaeta</i>	12 +	82141	<i>Thienemanniella xena</i>	12
04687	<i>Placobdella parasitica</i>	+	82730	<i>Chironomus (C.) decorus group</i>	+
05900	<i>Lirceus sp</i>	1	82820	<i>Cryptochironomus sp</i>	11 +
08601	<i>Hydrachnidia</i>	+	82885	<i>Cryptotendipes pseudotener</i>	+
11020	<i>Acerpenna pygmaea</i>	9	83040	<i>Dicrotendipes neomodestus</i>	169 +
11130	<i>Baetis intercalaris</i>	17 +	84450	<i>Polypedilum (Uresipedilum) flavum</i>	32
12200	<i>Isonychia sp</i>	1	84470	<i>Polypedilum (P.) illinoense</i>	11 +
13400	<i>Stenacron sp</i>	37	84960	<i>Pseudochironomus sp</i>	+
13570	<i>Maccaffertium terminatum</i>	2	85230	<i>Cladotanytarsus mancus group</i>	+
16700	<i>Tricorythodes sp</i>	72 +	85500	<i>Paratanytarsus sp</i>	137 +
17200	<i>Caenis sp</i>	44 +	85625	<i>Rheotanytarsus sp</i>	53 +
18700	<i>Hexagenia sp</i>	+	85800	<i>Tanytarsus sp</i>	11 +
21300	<i>Hetaerina sp</i>	1 +	85821	<i>Tanytarsus glabrescens group sp 7</i>	74
22001	<i>Coenagrionidae</i>	+	85840	<i>Tanytarsus sepp</i>	62 +
22300	<i>Argia sp</i>	13 +	87540	<i>Hemerodromia sp</i>	12 +
24900	<i>Gomphus sp</i>	+	95100	<i>Physella sp</i>	4 +
45100	<i>Palmarcorixa sp</i>	+	96900	<i>Ferrissia sp</i>	14
52200	<i>Cheumatopsyche sp</i>	553 +	97601	<i>Corbicula fluminea</i>	1 +
52430	<i>Ceratopsyche morosa group</i>	87 +	99420	<i>Amblema plicata plicata</i>	+
52530	<i>Hydropsyche depravata group</i>	102 +			
53800	<i>Hydroptila sp</i>	12 +	No. Quantitative Taxa: 47		Total Taxa: 64
58505	<i>Helicopsyche borealis</i>	1	No. Qualitative Taxa: 41		ICI: 44
60400	<i>Gyrinus sp</i>	+	Number of Organisms: 2005		Qual EPT: 8
65800	<i>Berosus sp</i>	+			
68601	<i>Ancyronyx variegata</i>	1			
68702	<i>Dubiraphia bivittata</i>	+			
68708	<i>Dubiraphia vittata group</i>	5 +			
68901	<i>Macronychus glabratus</i>	8			
69400	<i>Stenelmis sp</i>	12 +			
72700	<i>Anopheles sp</i>	+			
74100	<i>Simulium sp</i>	+			
77120	<i>Ablabesmyia mallochi</i>	21			
77500	<i>Conchapelopia sp</i>	70 +			
77750	<i>Hayesomyia senata or Thienemannimyia norena</i>	15			
78140	<i>Labrundinia pilosella</i>	8 +			
80370	<i>Corynoneura lobata</i>	4			
80410	<i>Cricotopus (C.) sp</i>	11			
80430	<i>Cricotopus (C.) tremulus group</i>	32			
80490	<i>Cricotopus (Isocladius) intersectus group</i>	+			
81240	<i>Nanocladius (N.) distinctus</i>	95			
81250	<i>Nanocladius (N.) minimus</i>	53			
81270	<i>Nanocladius (N.) spiniplenus</i>	11			
81825	<i>Rheocricotopus (Psilocricotopus) robacki</i>	53			

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Scioto River

Collection Date: 08/11/2009 River Code: 02-001 RM: 222.80

0.25 mi. dst. Co. Rd. 110

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01320	<i>Hydra sp</i>	6	77500	<i>Conchapelopia sp</i>	13 +
01801	<i>Turbellaria</i>	6 +	77750	<i>Hayesomyia senata</i> or <i>Thienemannimyia norena</i>	19 +
06201	<i>Hyaella azteca</i>	+	78140	<i>Labrundinia pilosella</i>	24 +
08250	<i>Orconectes (Procericambarus) rusticus</i>	+	78655	<i>Procladius (Holotanypus) sp</i>	+
08601	<i>Hydrachnidia</i>	12 +	80370	<i>Corynoneura lobata</i>	22
11020	<i>Acerpenna pygmaea</i>	4	80420	<i>Cricotopus (C.) bicinctus</i>	12
11120	<i>Baetis flavistriga</i>	26	80430	<i>Cricotopus (C.) tremulus</i> group	12
11130	<i>Baetis intercalaris</i>	87 +	81250	<i>Nanocladius (N.) minimus</i>	4
11200	<i>Callibaetis sp</i>	+	82130	<i>Thienemanniella similis</i>	20
11650	<i>Proclleon sp (w/ hindwing pads)</i>	6	82141	<i>Thienemanniella xena</i>	20
11670	<i>Proclleon viridoculare</i>	+	82820	<i>Cryptochironomus sp</i>	+
12200	<i>Isonychia sp</i>	2	82885	<i>Cryptotendipes pseudotener</i>	+
13400	<i>Stenacron sp</i>	136 +	83003	<i>Dicrotendipes fumidus</i>	4
13521	<i>Stenonema femoratum</i>	2	83040	<i>Dicrotendipes neomodestus</i>	127 +
13550	<i>Maccaffertium mexicanum integrum</i>	2	83050	<i>Dicrotendipes lucifer</i>	4
13570	<i>Maccaffertium terminatum</i>	32 +	83410	<i>Harnischia curtilamellata</i>	+
16700	<i>Tricorythodes sp</i>	303 +	83820	<i>Microtendipes "caelum" (sensu Simpson & Bode, 1980)</i>	+
17200	<i>Caenis sp</i>	17 +	84155	<i>Paralauterborniella nigrohalteralis</i>	+
18700	<i>Hexagenia sp</i>	+	84450	<i>Polypedilum (Uresipedilum) flavum</i>	4
21300	<i>Hetaerina sp</i>	+	84470	<i>Polypedilum (P.) illinoense</i>	4 +
22001	<i>Coenagrionidae</i>	+	84520	<i>Polypedilum (Tripodura) halterale</i> group	+
22300	<i>Argia sp</i>	1	84540	<i>Polypedilum (Tripodura) scalaenum</i> group	+
45100	<i>Palmarcorixa sp</i>	+	84960	<i>Pseudochironomus sp</i>	+
45400	<i>Trichocorixa sp</i>	+	85500	<i>Paratanytarsus sp</i>	73
47600	<i>Sialis sp</i>	+	85625	<i>Rheotanytarsus sp</i>	73 +
51300	<i>Neureclipsis sp</i>	4	85800	<i>Tanytarsus sp</i>	+
52200	<i>Cheumatopsyche sp</i>	421 +	85821	<i>Tanytarsus glabrescens</i> group sp 7	47
52430	<i>Ceratopsyche morosa</i> group	11 +	95100	<i>Physella sp</i>	+
52530	<i>Hydropsyche depravata</i> group	+	95900	<i>Gyraulax sp</i>	+
53800	<i>Hydroptila sp</i>	17 +	96900	<i>Ferrissia sp</i>	44 +
57400	<i>Neophylax sp</i>	+	97601	<i>Corbicula fluminea</i>	+
58505	<i>Helicopsyche borealis</i>	1 +	98600	<i>Sphaerium sp</i>	+
59410	<i>Nectopsyche diarina</i>	+	99180	<i>Strophitus undulatus undulatus</i>	+
59570	<i>Oecetis nocturna</i>	+	99200	<i>Alasmidonta marginata</i>	+
60300	<i>Dineutus sp</i>	4	99240	<i>Lasmigona complanata</i>	+
65800	<i>Berosus sp</i>	+	99280	<i>Lasmigona costata</i>	+
68702	<i>Dubiraphia bivittata</i>	+	99420	<i>Amblema plicata plicata</i>	+
68708	<i>Dubiraphia vittata</i> group	+	99880	<i>Lampsilis cardium</i>	+
68901	<i>Macronychus glabratus</i>	3 +			
69400	<i>Stenelmis sp</i>	64 +			
71100	<i>Hexatoma sp</i>	+			
77110	<i>Ablabesmyia annulata</i>	+	No. Quantitative Taxa: 42		Total Taxa: 82
77120	<i>Ablabesmyia mallochi</i>	8	No. Qualitative Taxa: 60		ICI: 54
77355	<i>Clinotanypus pinguis</i>	+	Number of Organisms: 1701		Qual EPT: 16

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Scioto River

Collection Date: 08/11/2009 River Code: 02-001 RM: 216.67

Co. Rd. 106

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01320	<i>Hydra sp</i>	17	81825	<i>Rheocricotopus (Psilocricotopus) robacki</i>	25
01801	<i>Turbellaria</i>	+	82121	<i>Thienemanniella lobapodema</i>	25
03360	<i>Plumatella sp</i>	1 +	82820	<i>Cryptochironomus sp</i>	+
03600	<i>Oligochaeta</i>	+	82885	<i>Cryptotendipes pseudotener</i>	+
08601	<i>Hydrachnidia</i>	24 +	83003	<i>Dicrotendipes fumidus</i>	224
11670	<i>Procloeon viridoculare</i>	+	83040	<i>Dicrotendipes neomodestus</i>	1143 +
13400	<i>Stenacron sp</i>	29 +	83300	<i>Glyptotendipes (G.) sp</i>	+
13570	<i>Maccaffertium terminatum</i>	48 +	83310	<i>Glyptotendipes (Heynotendipes) amplus</i>	25
16700	<i>Tricorythodes sp</i>	130 +	83840	<i>Microtendipes pedellus group</i>	+
17200	<i>Caenis sp</i>	1 +	84020	<i>Parachironomus carinatus</i>	25
18700	<i>Hexagenia sp</i>	+	84060	<i>Parachironomus pectinatellae</i>	+
22001	<i>Coenagrionidae</i>	+	84450	<i>Polypedilum (Uresipedilum) flavum</i>	100
22300	<i>Argia sp</i>	8	84470	<i>Polypedilum (P.) illinoense</i>	+
24900	<i>Gomphus sp</i>	+	84540	<i>Polypedilum (Tripodura) scalaenum group</i>	25 +
26700	<i>Macromia sp</i>	+	85264	<i>Cladotanytarsus vanderwulpi group sp 4</i>	+
45300	<i>Sigara sp</i>	+	85500	<i>Paratanytarsus sp</i>	25
47600	<i>Sialis sp</i>	+	85625	<i>Rheotanytarsus sp</i>	25
51300	<i>Neureclipsis sp</i>	13	85800	<i>Tanytarsus sp</i>	25
51400	<i>Nyctiophylax sp</i>	+	85821	<i>Tanytarsus glabrescens group sp 7</i>	546
51600	<i>Polycentropus sp</i>	+	85840	<i>Tanytarsus sepp</i>	75
52200	<i>Cheumatopsyche sp</i>	96	86100	<i>Chrysops sp</i>	+
53800	<i>Hydroptila sp</i>	77	99200	<i>Alasmidonta marginata</i>	+
59410	<i>Nectopsyche diarina</i>	+	99280	<i>Lasmigona costata</i>	+
65800	<i>Berosus sp</i>	+	99420	<i>Amblema plicata plicata</i>	+
68601	<i>Ancyronyx variegata</i>	1 +	99880	<i>Lampsilis cardium</i>	+
68702	<i>Dubiraphia bivittata</i>	+			
68708	<i>Dubiraphia vittata group</i>	2 +	No. Quantitative Taxa: 40		Total Taxa: 68
68901	<i>Macronychus glabratus</i>	1 +	No. Qualitative Taxa: 43		ICI: 34
69400	<i>Stenelmis sp</i>	12 +	Number of Organisms: 3140		Qual EPT: 9
74501	<i>Ceratopogonidae</i>	1 +			
77120	<i>Ablabesmyia mallochi</i>	25 +			
77130	<i>Ablabesmyia rhamphe group</i>	25			
77750	<i>Hayesomyia senata or Thienemannimyia norena</i>	100 +			
77800	<i>Helopelopia sp</i>	+			
78140	<i>Labrundinia pilosella</i>	25			
78450	<i>Nilotanypus fimbriatus</i>	8			
78655	<i>Procladius (Holotanypus) sp</i>	+			
79085	<i>Telopelopia okoboji</i>	25			
80370	<i>Corynoneura lobata</i>	8			
80430	<i>Cricotopus (C.) tremulus group</i>	50			
81231	<i>Nanocladius (N.) crassicornus or N. (N.) "rectinervis"</i>	25			
81240	<i>Nanocladius (N.) distinctus</i>	75			
81250	<i>Nanocladius (N.) minimus</i>	25			

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Scioto River

Collection Date: 08/12/2009 River Code: 02-001 RM: 211.50

upst. Kenton WWTP

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01320	<i>Hydra sp</i>	16	80430	<i>Cricotopus (C.) tremulus group</i>	20
01801	<i>Turbellaria</i>	257 +	82730	<i>Chironomus (C.) decorus group</i>	+
03600	<i>Oligochaeta</i>	4 +	82885	<i>Cryptotendipes pseudotener</i>	+
08601	<i>Hydrachnidia</i>	+	83040	<i>Dicrotendipes neomodestus</i>	20
11018	<i>Acerpenna macdunnoughi</i>	+	83820	<i>Microtendipes "caelum" (sensu Simpson & Bode, 1980)</i>	+
11120	<i>Baetis flavistriga</i>	+	83840	<i>Microtendipes pedellus group</i>	20 +
11130	<i>Baetis intercalaris</i>	4 +	84210	<i>Paratendipes albimanus or P. duplicatus</i>	+
11651	<i>Procloeon sp (w/o hindwing pads)</i>	4 +	84300	<i>Phaenopsectra obediens group</i>	20
11670	<i>Procloeon viridoculare</i>	+	84450	<i>Polypedilum (Uresipedilum) flavum</i>	79 +
13000	<i>Leucrocuta sp</i>	4 +	84460	<i>Polypedilum (P.) fallax group</i>	26
13400	<i>Stenacron sp</i>	126 +	84470	<i>Polypedilum (P.) illinoense</i>	+
13510	<i>Maccaffertium exiguum</i>	2 +	84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+
13521	<i>Stenonema femoratum</i>	+	84750	<i>Stictochironomus sp</i>	+
13540	<i>Maccaffertium mediopunctatum</i>	+	84800	<i>Tribelos jucundum</i>	+
13561	<i>Maccaffertium pulchellum</i>	2	84960	<i>Pseudochironomus sp</i>	+
13570	<i>Maccaffertium terminatum</i>	82 +	85230	<i>Cladotanytarsus mancus group</i>	+
16700	<i>Tricorythodes sp</i>	33 +	85500	<i>Paratanytarsus sp</i>	13
17200	<i>Caenis sp</i>	+	85625	<i>Rheotanytarsus sp</i>	244 +
22001	<i>Coenagrionidae</i>	+	85800	<i>Tanytarsus sp</i>	7
22300	<i>Argia sp</i>	33 +	85821	<i>Tanytarsus glabrescens group sp 7</i>	125 +
45100	<i>Palmacorixa sp</i>	+	85840	<i>Tanytarsus sepp</i>	20
45300	<i>Sigara sp</i>	+	87540	<i>Hemerodromia sp</i>	4
47600	<i>Sialis sp</i>	+	95100	<i>Physella sp</i>	+
50315	<i>Chimarra obscura</i>	+	96900	<i>Ferrissia sp</i>	66 +
51300	<i>Neureclipsis sp</i>	42 +	97601	<i>Corbicula fluminea</i>	+
52200	<i>Cheumatopsyche sp</i>	193 +	99200	<i>Alasmidonta marginata</i>	+
52430	<i>Ceratopsyche morosa group</i>	20 +	99420	<i>Amblema plicata plicata</i>	+
52530	<i>Hydropsyche depravata group</i>	3 +	99860	<i>Lampsilis radiata luteola</i>	+
53800	<i>Hydroptila sp</i>	+			
58505	<i>Helicopsyche borealis</i>	+			
59410	<i>Nectopsyche diarina</i>	+	No. Quantitative Taxa: 37		Total Taxa: 72
63900	<i>Laccophilus sp</i>	+	No. Qualitative Taxa: 57		ICI: 44
68601	<i>Ancyronyx variegata</i>	+	Number of Organisms: 1648		Qual EPT: 21
68708	<i>Dubiraphia vittata group</i>	+			
68901	<i>Macronychus glabratus</i>	14			
69400	<i>Stenelmis sp</i>	56 +			
77120	<i>Ablabesmyia mallochi</i>	7			
77130	<i>Ablabesmyia rhamphe group</i>	7 +			
77500	<i>Conchapelopia sp</i>	7			
77750	<i>Hayesomyia senata or Thienemannimyia norena</i>	53 +			
77800	<i>Helopelopia sp</i>	+			
78401	<i>Natarsia species A (sensu Roback, 1978)</i>	7			
78655	<i>Procladius (Holotanypus) sp</i>	+			
80370	<i>Corynoneura lobata</i>	8			

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Scioto River

Collection Date: 08/12/2009 River Code: 02-001 RM: 210.07

Co. Rd. 175

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01320	<i>Hydra sp</i>	35	82820	<i>Cryptochironomus sp</i>	+
01801	<i>Turbellaria</i>	485 +	82885	<i>Cryptotendipes pseudotener</i>	+
03360	<i>Plumatella sp</i>	1	83003	<i>Dicrotendipes fumidus</i>	+
03600	<i>Oligochaeta</i>	9 +	83040	<i>Dicrotendipes neomodestus</i>	246 +
04960	<i>Mooreobdella sp</i>	+	83410	<i>Harnischia curtilamellata</i>	+
06700	<i>Crangonyx sp</i>	+	83820	<i>Microtendipes "caelum" (sensu Simpson & Bode, 1980)</i>	45 +
11130	<i>Baetis intercalaris</i>	2 +	83840	<i>Microtendipes pedellus group</i>	246 +
11650	<i>Procloeon sp (w/ hindwing pads)</i>	3 +	84155	<i>Paralauterborniella nigrohalteralis</i>	+
11670	<i>Procloeon viridoculare</i>	+	84300	<i>Phaenopsectra obediens group</i>	22 +
13000	<i>Leucrocuta sp</i>	1	84315	<i>Phaenopsectra flavipes</i>	22
13400	<i>Stenacron sp</i>	26 +	84450	<i>Polypedilum (Uresipedilum) flavum</i>	112 +
13521	<i>Stenonema femoratum</i>	2	84470	<i>Polypedilum (P.) illinoense</i>	45 +
13570	<i>Maccaffertium terminatum</i>	49 +	84520	<i>Polypedilum (Tripodura) halterale group</i>	+
16700	<i>Tricorythodes sp</i>	186 +	84540	<i>Polypedilum (Tripodura) scalaenum group</i>	45
17200	<i>Caenis sp</i>	+	84700	<i>Stenochironomus sp</i>	+
22300	<i>Argia sp</i>	2 +	84750	<i>Stictochironomus sp</i>	+
23909	<i>Boyeria vinosa</i>	+	84800	<i>Tribelos jucundum</i>	+
43300	<i>Ranatra sp</i>	+	85230	<i>Cladotanytarsus mancus group</i>	22 +
45100	<i>Palmacorixa sp</i>	+	85500	<i>Paratanytarsus sp</i>	22
45300	<i>Sigara sp</i>	+	85625	<i>Rheotanytarsus sp</i>	89
51300	<i>Neureclipsis sp</i>	6 +	85800	<i>Tanytarsus sp</i>	22
52200	<i>Cheumatopsyche sp</i>	10 +	85821	<i>Tanytarsus glabrescens group sp 7</i>	559 +
52430	<i>Ceratopsyche morosa group</i>	2 +	85840	<i>Tanytarsus sepp</i>	45 +
53800	<i>Hydroptila sp</i>	17 +	86100	<i>Chrysops sp</i>	+
59100	<i>Ceraclea sp</i>	1	95100	<i>Physella sp</i>	+
59300	<i>Mystacides sp</i>	1 +	96900	<i>Ferrissia sp</i>	1
59410	<i>Nectopsyche diarina</i>	1 +	97601	<i>Corbicula fluminea</i>	+
59970	<i>Petrophila sp</i>	+	99240	<i>Lasmigona complanata</i>	+
65800	<i>Berosus sp</i>	1	99280	<i>Lasmigona costata</i>	+
67800	<i>Tropisternus sp</i>	+	99420	<i>Amblema plicata plicata</i>	+
68601	<i>Ancyronyx variegata</i>	+			
68708	<i>Dubiraphia vittata group</i>	+			
68901	<i>Macronychus glabratus</i>	1 +	No. Quantitative Taxa: 42		Total Taxa: 74
69225	<i>Optioservus fastiditus</i>	+	No. Qualitative Taxa: 58		ICI: 40
69400	<i>Stenelmis sp</i>	+	Number of Organisms: 2944		Qual EPT: 13
77120	<i>Ablabesmyia mallochi</i>	+			
77130	<i>Ablabesmyia rhamphe group</i>	+			
77750	<i>Hayesomyia senata or Thienemannimyia norena</i>	470 +			
78655	<i>Procladius (Holotanypus) sp</i>	+			
80370	<i>Corynoneura lobata</i>	16			
80410	<i>Cricotopus (C.) sp</i>	22			
80430	<i>Cricotopus (C.) tremulus group</i>	22 +			
81270	<i>Nanocladius (N.) spiniplenus</i>	22			
82121	<i>Thienemanniella lobapodema</i>	8			

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Scioto River

Collection Date: 08/12/2009 River Code: 02-001 RM: 207.60

dst. Co. Rd. 195

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01320	<i>Hydra sp</i>	74	77800	<i>Helopelopia sp</i>	63
01801	<i>Turbellaria</i>	3136 +	78655	<i>Procladius (Holotanypus) sp</i>	+
03360	<i>Plumatella sp</i>	10 +	80410	<i>Cricotopus (C.) sp</i>	126
03600	<i>Oligochaeta</i>	8 +	80430	<i>Cricotopus (C.) tremulus group</i>	63
04664	<i>Helobdella stagnalis</i>	+	81231	<i>Nanocladius (N.) crassicornus or N. (N.) "rectinervis"</i>	63
06700	<i>Crangonyx sp</i>	+			
08601	<i>Hydrachnidia</i>	32	82141	<i>Thienemanniella xena</i>	32
11120	<i>Baetis flavistriga</i>	1 +	82820	<i>Cryptochironomus sp</i>	+
11130	<i>Baetis intercalaris</i>	+	82885	<i>Cryptotendipes pseudotener</i>	63
11650	<i>Procloeon sp (w/ hindwing pads)</i>	5 +	83040	<i>Dicrotendipes neomodestus</i>	1200 +
11670	<i>Procloeon viridoculare</i>	+	83410	<i>Harnischia curtilamellata</i>	+
12200	<i>Isonychia sp</i>	+	83820	<i>Microtendipes "caelum" (sensu Simpson & Bode, 1980)</i>	+
13400	<i>Stenacron sp</i>	6 +	83840	<i>Microtendipes pedellus group</i>	948 +
13561	<i>Maccaffertium pulchellum</i>	+	84020	<i>Parachironomus carinatus</i>	63
13570	<i>Maccaffertium terminatum</i>	1 +	84450	<i>Polypedilum (Uresipedilum) flavum</i>	505 +
16700	<i>Tricorythodes sp</i>	36 +	84460	<i>Polypedilum (P.) fallax group</i>	190
17200	<i>Caenis sp</i>	+	84470	<i>Polypedilum (P.) illinoense</i>	190
18600	<i>Ephemera sp</i>	1 +	84540	<i>Polypedilum (Tripodura) scalaenum group</i>	190 +
21200	<i>Calopteryx sp</i>	+	84750	<i>Stictochironomus sp</i>	+
22001	<i>Coenagrionidae</i>	1 +	84800	<i>Tribelos jucundum</i>	126 +
22300	<i>Argia sp</i>	70 +	85500	<i>Paratanytarsus sp</i>	63
45100	<i>Palmacorixa sp</i>	+	85800	<i>Tanytarsus sp</i>	126
45400	<i>Trichocorixa sp</i>	+	85821	<i>Tanytarsus glabrescens group sp 7</i>	634 +
50906	<i>Psychomyia flavida</i>	10	87540	<i>Hemerodromia sp</i>	9
51300	<i>Neureclipsis sp</i>	62 +	96900	<i>Ferrissia sp</i>	11 +
51600	<i>Polycentropus sp</i>	+	97601	<i>Corbicula fluminea</i>	+
52200	<i>Cheumatopsyche sp</i>	534 +	99180	<i>Strophitus undulatus undulatus</i>	+
52430	<i>Ceratopsyche morosa group</i>	206 +	99200	<i>Alasmidonta marginata</i>	+
52590	<i>Hydropsyche venularis</i>	6	99240	<i>Lasmigona complanata</i>	+
53800	<i>Hydroptila sp</i>	656 +	99280	<i>Lasmigona costata</i>	+
58505	<i>Helicopsyche borealis</i>	8	99420	<i>Amblema plicata plicata</i>	+
59140	<i>Ceraclea maculata</i>	1	99860	<i>Lampsilis radiata luteola</i>	+
59410	<i>Nectopsyche diarina</i>	1	99880	<i>Lampsilis cardium</i>	+
59500	<i>Oecetis sp</i>	+			
59724	<i>Triaenodes injustus</i>	+			
59970	<i>Petrophila sp</i>	1 +	No. Quantitative Taxa: 46		Total Taxa: 76
63900	<i>Laccophilus sp</i>	+	No. Qualitative Taxa: 56		ICI: 42
65800	<i>Berosus sp</i>	16 +	Number of Organisms: 9876		Qual EPT: 18
68300	<i>Cyphon sp</i>	+			
68708	<i>Dubiraphia vittata group</i>	1 +			
69400	<i>Stenelmis sp</i>	12 +			
72700	<i>Anopheles sp</i>	+			
77120	<i>Ablabesmyia mallochi</i>	+			
77750	<i>Hayesomyia senata or Thienemannimyia norena</i>	316			

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Scioto River

Collection Date: 08/12/2009 River Code: 02-001 RM: 203.36

Co. Rd. 227

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01320	<i>Hydra sp</i>	48	78655	<i>Procladius (Holotanypus) sp</i>	+
01801	<i>Turbellaria</i>	10 +	80410	<i>Cricotopus (C.) sp</i>	221
03360	<i>Plumatella sp</i>	7	80430	<i>Cricotopus (C.) tremulus group</i>	148
03600	<i>Oligochaeta</i>	+	81231	<i>Nanocladius (N.) crassicornus or N. (N.) "rectinervis"</i>	74
05800	<i>Caecidotea sp</i>	+	81825	<i>Rheocricotopus (Psilocricotopus) robacki</i>	74
06201	<i>Hyaella azteca</i>	+	82101	<i>Thienemanniella taurocapita</i>	41
06700	<i>Crangonyx sp</i>	+	82121	<i>Thienemanniella lobapodema</i>	64
08250	<i>Orconectes (Procericambarus) rusticus</i>	+	82820	<i>Cryptochironomus sp</i>	+
08601	<i>Hydrachnidia</i>	+	82885	<i>Cryptotendipes pseudotener</i>	+
11020	<i>Acerpenna pygmaea</i>	6 +	83040	<i>Dicrotendipes neomodestus</i>	74
11120	<i>Baetis flavistriga</i>	2	83820	<i>Microtendipes "caelum" (sensu Simpson & Bode, 1980)</i>	+
11130	<i>Baetis intercalaris</i>	180 +	83840	<i>Microtendipes pedellus group</i>	148 +
11650	<i>Procloeon sp (w/ hindwing pads)</i>	2	84300	<i>Phaenopsectra obediens group</i>	+
11670	<i>Procloeon viridoculare</i>	+	84450	<i>Polypedilum (Uresipedilum) flavum</i>	369
13000	<i>Leucrocuta sp</i>	12 +	84470	<i>Polypedilum (P.) illinoense</i>	74
13100	<i>Nixe sp</i>	1 +	84750	<i>Stictochironomus sp</i>	+
13400	<i>Stenacron sp</i>	4 +	85500	<i>Paratanytarsus sp</i>	32
13561	<i>Maccaffertium pulchellum</i>	14 +	85625	<i>Rheotanytarsus sp</i>	3913 +
13570	<i>Maccaffertium terminatum</i>	70	85821	<i>Tanytarsus glabrescens group sp 7</i>	443
16700	<i>Tricorythodes sp</i>	243 +	95100	<i>Physella sp</i>	+
17200	<i>Caenis sp</i>	+	96120	<i>Menetus (Micromenetus) dilatatus</i>	+
18600	<i>Ephemera sp</i>	+	99180	<i>Strophitus undulatus undulatus</i>	+
22001	<i>Coenagrionidae</i>	+	99200	<i>Alasmidonta marginata</i>	+
22300	<i>Argia sp</i>	+	99240	<i>Lasmigona complanata</i>	+
30000	<i>Plecoptera</i>	+	99280	<i>Lasmigona costata</i>	+
45100	<i>Palmacorixa sp</i>	+	99420	<i>Amblema plicata plicata</i>	+
45400	<i>Trichocorixa sp</i>	+	99860	<i>Lampsilis radiata luteola</i>	+
47600	<i>Sialis sp</i>	+	99880	<i>Lampsilis cardium</i>	+
50804	<i>Lype diversa</i>	98			
51400	<i>Nyctiophylax sp</i>	+			
51600	<i>Polycentropus sp</i>	41 +			
52200	<i>Cheumatopsyche sp</i>	597 +	No. Quantitative Taxa: 36		Total Taxa: 72
52430	<i>Ceratopsyche morosa group</i>	506	No. Qualitative Taxa: 51		ICI: 48
52590	<i>Hydropsyche venularis</i>	+	Number of Organisms: 8581		Qual EPT: 16
53800	<i>Hydroptila sp</i>	107 +			
68601	<i>Ancyronyx variegata</i>	1			
68708	<i>Dubiraphia vittata group</i>	+			
68901	<i>Macronychus glabratus</i>	11			
69400	<i>Stenelmis sp</i>	60 +			
74501	<i>Ceratopogonidae</i>	+			
77120	<i>Ablabesmyia mallochi</i>	+			
77130	<i>Ablabesmyia rhamphe group</i>	+			
77500	<i>Conchapelopia sp</i>	148			
77750	<i>Hayesomyia senata or Thienemannimyia norena</i>	738 +			

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Scioto River

Collection Date: 08/12/2009 River Code: 02-001 RM: 196.60

upst. St. Rt. 37

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01320	<i>Hydra sp</i>	4	82121	<i>Thienemanniella lobapodema</i>	12
03360	<i>Plumatella sp</i>	+	82141	<i>Thienemanniella xena</i>	9
03600	<i>Oligochaeta</i>	4 +	82820	<i>Cryptochironomus sp</i>	+
08601	<i>Hydrachnidia</i>	28 +	82885	<i>Cryptotendipes pseudotener</i>	+
11020	<i>Acerpenna pygmaea</i>	4	83040	<i>Dicrotendipes neomodestus</i>	21
11120	<i>Baetis flavistriga</i>	17 +	83300	<i>Glyptotendipes (G.) sp</i>	+
11130	<i>Baetis intercalaris</i>	507 +	83840	<i>Microtendipes pedellus group</i>	21 +
11670	<i>Procloeon viridoculare</i>	+	84450	<i>Polypedilum (Uresipedilum) flavum</i>	35
12200	<i>Isonychia sp</i>	5	84460	<i>Polypedilum (P.) fallax group</i>	7
13000	<i>Leucrocuta sp</i>	8	84470	<i>Polypedilum (P.) illinoense</i>	7 +
13100	<i>Nixe sp</i>	+	84520	<i>Polypedilum (Tripodura) halterale group</i>	+
13400	<i>Stenacron sp</i>	118 +	84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+
13510	<i>Maccaffertium exiguum</i>	13 +	84612	<i>Saetheria tylus</i>	+
13561	<i>Maccaffertium pulchellum</i>	13 +	84800	<i>Tribelos jucundum</i>	+
13570	<i>Maccaffertium terminatum</i>	145 +	85500	<i>Paratanytarsus sp</i>	14
16700	<i>Tricorythodes sp</i>	43	85625	<i>Rheotanytarsus sp</i>	289
17200	<i>Caenis sp</i>	+	95100	<i>Physella sp</i>	+
18600	<i>Ephemera sp</i>	1 +	96900	<i>Ferrissia sp</i>	18
22001	<i>Coenagrionidae</i>	+			
22300	<i>Argia sp</i>	2 +	No. Quantitative Taxa: 42		Total Taxa: 62
43570	<i>Neoplea sp</i>	+	No. Qualitative Taxa: 38		ICI: 52
45100	<i>Palmacorixa sp</i>	+	Number of Organisms: 2087		Qual EPT: 13
47600	<i>Sialis sp</i>	+			
51400	<i>Nyctiophylax sp</i>	1 +			
51600	<i>Polycentropus sp</i>	10 +			
52200	<i>Cheumatopsyche sp</i>	426 +			
52570	<i>Hydropsyche simulans</i>	20			
53800	<i>Hydroptila sp</i>	20			
68075	<i>Psephenus herricki</i>	+			
68708	<i>Dubiraphia vittata group</i>	+			
68901	<i>Macronychus glabratus</i>	11 +			
69400	<i>Stenelmis sp</i>	47 +			
77120	<i>Ablabesmyia mallochi</i>	+			
77130	<i>Ablabesmyia rhamphe group</i>	7			
77500	<i>Conchapelopia sp</i>	14			
77750	<i>Hayesomyia senata</i> or <i>Thienemannimyia norena</i>	49 +			
78450	<i>Nilotanypus fimbriatus</i>	21			
78600	<i>Pentaneura inconspicua</i>	7			
78655	<i>Procladius (Holotanypus) sp</i>	+			
80363	<i>Corynoneura sp 12</i>	4			
80370	<i>Corynoneura lobata</i>	73			
80410	<i>Cricotopus (C.) sp</i>	7			
81825	<i>Rheocricotopus (Psilocricotopus) robacki</i>	21			
82101	<i>Thienemanniella taurocapita</i>	4			

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Scioto River

Collection Date: 08/12/2009 River Code: 02-001 RM: 192.20

Schotte Rd.

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01320	<i>Hydra sp</i>	30	84700	<i>Stenochironomus sp</i>	+
01801	<i>Turbellaria</i>	+	85262	<i>Cladotanytarsus vanderwulpi group sp 2</i>	+
03360	<i>Plumatella sp</i>	+	85265	<i>Cladotanytarsus vanderwulpi group sp 5</i>	+
03600	<i>Oligochaeta</i>	+	85625	<i>Rheotanytarsus sp</i>	141
11018	<i>Acerpenna macdunnoughi</i>	6	85821	<i>Tanytarsus glabrescens group sp 7</i>	3
11130	<i>Baetis intercalaris</i>	324 +	87540	<i>Hemerodromia sp</i>	4
13000	<i>Leucrocuta sp</i>	14	95100	<i>Physella sp</i>	+
13400	<i>Stenacron sp</i>	9 +	96900	<i>Ferrissia sp</i>	+
13510	<i>Maccaffertium exiguum</i>	33 +	97601	<i>Corbicula fluminea</i>	+
13561	<i>Maccaffertium pulchellum</i>	7 +			
13570	<i>Maccaffertium terminatum</i>	183 +	No. Quantitative Taxa: 31		Total Taxa: 52
16700	<i>Tricorythodes sp</i>	+	No. Qualitative Taxa: 38		ICI: 48
17200	<i>Caenis sp</i>	+	Number of Organisms: 1558		Qual EPT: 12
21200	<i>Calopteryx sp</i>	+			
22300	<i>Argia sp</i>	2 +			
45400	<i>Trichocorixa sp</i>	+			
48220	<i>Chauliodes rastricornis</i>	+			
51300	<i>Neureclipsis sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	467 +			
52430	<i>Ceratopsyche morosa group</i>	2			
52570	<i>Hydropsyche simulans</i>	106 +			
57900	<i>Pycnopsyche sp</i>	1 +			
59410	<i>Nectopsyche diarina</i>	1 +			
60900	<i>Peltodytes sp</i>	+			
68708	<i>Dubiraphia vittata group</i>	+			
68901	<i>Macronychus glabratus</i>	51 +			
69400	<i>Stenelmis sp</i>	26 +			
77120	<i>Ablabesmyia mallochi</i>	3 +			
77500	<i>Conchapelopia sp</i>	3			
77750	<i>Hayesomyia senata</i> or <i>Thienemannimyia norena</i>	35 +			
78140	<i>Labrundinia pilosella</i>	+			
78450	<i>Nilotanytus fimbriatus</i>	6 +			
78655	<i>Procladius (Holotanytus) sp</i>	+			
80370	<i>Corynoneura lobata</i>	26			
81231	<i>Nanocladius (N.) crassicornus</i> or <i>N. (N.) "rectinervis"</i>	3			
81631	<i>Parakiefferiella n.sp 1</i>	3 +			
81825	<i>Rheocricotopus (Psilocricotopus) robacki</i>	15			
82141	<i>Thienemanniella xena</i>	4			
82820	<i>Cryptochironomus sp</i>	+			
82885	<i>Cryptotendipes pseudotener</i>	+			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	32			
84460	<i>Polypedilum (P.) fallax group</i>	12			
84540	<i>Polypedilum (Tripodura) scalaenum group</i>	6 +			

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Scioto River

Collection Date: 08/13/2009 River Code: 02-001 RM: 186.00

Big Island wildlife area

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01320	<i>Hydra sp</i>	21	78450	<i>Nilotanypus fimbriatus</i>	2
01801	<i>Turbellaria</i>	1 +	80370	<i>Corynoneura lobata</i>	15
03600	<i>Oligochaeta</i>	3 +	81825	<i>Rheocricotopus (Psilocricotopus) robacki</i>	4
04680	<i>Placobdella sp</i>	+	82121	<i>Thienemanniella lobapodema</i>	4
05800	<i>Caecidotea sp</i>	+	82730	<i>Chironomus (C.) decorus group</i>	2 +
06201	<i>Hyaella azteca</i>	+	82820	<i>Cryptochironomus sp</i>	4
08250	<i>Orconectes (Procericambarus) rusticus</i>	+	83040	<i>Dicrotendipes neomodestus</i>	4
08601	<i>Hydrachnidia</i>	1	83300	<i>Glyptotendipes (G.) sp</i>	2 +
11020	<i>Acerpenna pygmaea</i>	3	83410	<i>Harnischia curtilamellata</i>	2
11130	<i>Baetis intercalaris</i>	75 +	83840	<i>Microtendipes pedellus group</i>	19 +
11650	<i>Procloeon sp (w/ hindwing pads)</i>	+	84155	<i>Paralauterborniella nigrohalteralis</i>	+
12900	<i>Heptagenia sp</i>	2	84450	<i>Polypedilum (Uresipedilum) flavum</i>	8
13000	<i>Leucrocuta sp</i>	8 +	84460	<i>Polypedilum (P.) fallax group</i>	17
13400	<i>Stenacron sp</i>	88 +	84470	<i>Polypedilum (P.) illinoense</i>	+
13510	<i>Maccaffertium exiguum</i>	26 +	84540	<i>Polypedilum (Tripodura) scalaenum group</i>	37 +
13561	<i>Maccaffertium pulchellum</i>	18 +	84790	<i>Tribelos fuscicorne</i>	4
13570	<i>Maccaffertium terminatum</i>	230 +	84800	<i>Tribelos jucundum</i>	4
14950	<i>Leptophlebia sp or Paraleptophlebia sp</i>	3	85201	<i>Cladotanytarsus species group A</i>	4
16700	<i>Tricorythodes sp</i>	18 +	85625	<i>Rheotanytarsus sp</i>	17
17200	<i>Caenis sp</i>	1 +	85720	<i>Stempellinella fimbriata</i>	2
21200	<i>Calopteryx sp</i>	+	85821	<i>Tanytarsus glabrescens group sp 7</i>	4
22300	<i>Argia sp</i>	11 +			
23909	<i>Boyeria vinosa</i>	+	No. Quantitative Taxa: 45		Total Taxa: 65
42700	<i>Belostoma sp</i>	+	No. Qualitative Taxa: 40		ICI: 46
45100	<i>Palmacorixa sp</i>	+	Number of Organisms: 836		Qual EPT: 11
45400	<i>Trichocorixa sp</i>	+			
47600	<i>Sialis sp</i>	+			
51600	<i>Polycentropus sp</i>	2			
52200	<i>Cheumatopsyche sp</i>	122 +			
52570	<i>Hydropsyche simulans</i>	3 +			
60900	<i>Peltodytes sp</i>	+			
63300	<i>Hydroporini</i>	+			
66500	<i>Enochrus sp</i>	+			
68300	<i>Cyphon sp</i>	+			
68601	<i>Ancyronyx variegata</i>	+			
68708	<i>Dubiraphia vittata group</i>	+			
68901	<i>Macronychus glabratus</i>	4 +			
69400	<i>Stenelmis sp</i>	1 +			
74501	<i>Ceratopogonidae</i>	1			
77120	<i>Ablabesmyia mallochi</i>	10			
77130	<i>Ablabesmyia rhamphe group</i>	+			
77500	<i>Conchapelopia sp</i>	2			
77750	<i>Hayesomyia senata or Thienemannimyia norena</i>	15 +			
78140	<i>Labrundinia pilosella</i>	12			

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Scioto River

Collection Date: 08/13/2009 River Code: 02-001 RM: 179.05

adj. Green Camp Rd.

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01320	<i>Hydra sp</i>	31	82730	<i>Chironomus (C.) decorus group</i>	+
01801	<i>Turbellaria</i>	12 +	82820	<i>Cryptochironomus sp</i>	+
03360	<i>Plumatella sp</i>	1 +	82885	<i>Cryptotendipes pseudotener</i>	+
03600	<i>Oligochaeta</i>	2	83040	<i>Dicrotendipes neomodestus</i>	34
06201	<i>Hyalella azteca</i>	+	83158	<i>Endochironomus nigricans</i>	+
06700	<i>Crangonyx sp</i>	+	83300	<i>Glyptotendipes (G.) sp</i>	76 +
08250	<i>Orconectes (Procericambarus) rusticus</i>	+	83820	<i>Microtendipes "caelum" (sensu Simpson & Bode, 1980)</i>	+
08601	<i>Hydrachnidia</i>	2	83840	<i>Microtendipes pedellus group</i>	25
11130	<i>Baetis intercalaris</i>	+	84000	<i>Parachironomus sp</i>	4
12200	<i>Isonychia sp</i>	+	84060	<i>Parachironomus pectinatellae</i>	4
13000	<i>Leucrocuta sp</i>	+	84300	<i>Phaenopsectra obediens group</i>	8
13400	<i>Stenacron sp</i>	110 +	84450	<i>Polypedilum (Uresipedilum) flavum</i>	8 +
13510	<i>Maccaffertium exiguum</i>	9 +	84460	<i>Polypedilum (P.) fallax group</i>	17
13561	<i>Maccaffertium pulchellum</i>	15 +	84470	<i>Polypedilum (P.) illinoense</i>	4 +
13570	<i>Maccaffertium terminatum</i>	40 +	84540	<i>Polypedilum (Tripodura) scalaenum group</i>	21 +
14950	<i>Leptophlebia sp or Paraleptophlebia sp</i>	6	84800	<i>Tribelos jucundum</i>	+
16700	<i>Tricorythodes sp</i>	1	85500	<i>Paratanytarsus sp</i>	4
17200	<i>Caenis sp</i>	2 +	85821	<i>Tanytarsus glabrescens group sp 7</i>	55
22001	<i>Coenagrionidae</i>	+	85840	<i>Tanytarsus sepp</i>	13
22300	<i>Argia sp</i>	16 +			
24107	<i>Nasiaeschna pentacantha</i>	+			
43570	<i>Neoplea sp</i>	+	No. Quantitative Taxa: 35		Total Taxa: 63
45400	<i>Trichocorixa sp</i>	+	No. Qualitative Taxa: 46		ICI: 30
45900	<i>Notonecta sp</i>	+	Number of Organisms: 641		Qual EPT: 12
47600	<i>Sialis sp</i>	+			
51600	<i>Polycentropus sp</i>	4 +			
52200	<i>Cheumatopsyche sp</i>	11 +			
52520	<i>Hydropsyche bidens</i>	+			
52570	<i>Hydropsyche simulans</i>	+			
60400	<i>Gyrinus sp</i>	1			
64050	<i>Liodessus sp</i>	+			
68708	<i>Dubiraphia vittata group</i>	+			
68901	<i>Macronychus glabratus</i>	7 +			
69400	<i>Stenelmis sp</i>	19 +			
72700	<i>Anopheles sp</i>	+			
74100	<i>Simulium sp</i>	+			
77115	<i>Ablabesmyia janta</i>	+			
77130	<i>Ablabesmyia rhamphe group</i>	30 +			
77355	<i>Clinotanypus pinguis</i>	+			
77500	<i>Conchapelopia sp</i>	+			
77750	<i>Hayesomyia senata or Thienemannimyia norena</i>	30 +			
78655	<i>Procladius (Holotanypus) sp</i>	+			
80370	<i>Corynoneura lobata</i>	2			
81240	<i>Nanocladius (N.) distinctus</i>	17			

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Fulton Creek
 Miller Rd.

Collection Date: 08/07/2009 River Code: 02-145 RM: 16.30

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+			
04666	<i>Helobdella triserialis</i>	+			
05800	<i>Caecidotea sp</i>	+			
06201	<i>Hyalella azteca</i>	+			
08250	<i>Orconectes (Procericambarus) rusticus</i>	+			
08601	<i>Hydrachnidia</i>	+			
11120	<i>Baetis flavistriga</i>	+			
17200	<i>Caenis sp</i>	+			
22001	<i>Coenagrionidae</i>	+			
29105	<i>Tremea carolina</i>	+			
42700	<i>Belostoma sp</i>	+			
43570	<i>Neoplea sp</i>	+			
44300	<i>Pelocoris sp</i>	+			
45100	<i>Palmacorixa sp</i>	+			
45300	<i>Sigara sp</i>	+			
45400	<i>Trichocorixa sp</i>	+			
47600	<i>Sialis sp</i>	+			
51600	<i>Polycentropus sp</i>	+			
60900	<i>Peltodytes sp</i>	+			
63300	<i>Hydroporini</i>	+			
66500	<i>Enochrus sp</i>	+			
67800	<i>Tropisternus sp</i>	+			
68300	<i>Cyphon sp</i>	+			
68702	<i>Dubiraphia bivittata</i>	+			
72700	<i>Anopheles sp</i>	+			
77355	<i>Clinotanytus pinguis</i>	+			
78500	<i>Paramerina fragilis</i>	+			
83158	<i>Endochironomus nigricans</i>	+			
83300	<i>Glyptotendipes (G.) sp</i>	+			
84210	<i>Paratendipes albimanus</i> or <i>P. duplicatus</i>	+			
84520	<i>Polypedilum (Tripodura) halterale</i> group	+			
84700	<i>Stenochironomus sp</i>	+			
95100	<i>Physella sp</i>	+			
96264	<i>Planorbella (Pierosoma) pilsbryi</i>	+			
98600	<i>Sphaerium sp</i>	+			

No. Quantitative Taxa: 0	Total Taxa: 35
No. Qualitative Taxa: 35	ICI:
Number of Organisms: 0	Qual EPT: 3

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Fulton Creek

Collection Date: 08/18/2009 River Code: 02-145 RM: 10.35

Kinney Pike

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+	82885	<i>Cryptotendipes pseudotener</i>	+
03360	<i>Plumatella sp</i>	4	83040	<i>Dicrotendipes neomodestus</i>	12
03600	<i>Oligochaeta</i>	8 +	83840	<i>Microtendipes pedellus group</i>	254 +
04935	<i>Erpobdella punctata punctata</i>	1	84210	<i>Paratendipes albimanus</i> or <i>P. duplicatus</i>	58 +
04964	<i>Mooreobdella microstoma</i>	+	84460	<i>Polypedilum (P.) fallax group</i>	150
05800	<i>Caecidotea sp</i>	+	84540	<i>Polypedilum (Tripodura) scalaenum group</i>	23 +
06201	<i>Hyalella azteca</i>	+	84750	<i>Stictochironomus sp</i>	+
08250	<i>Orconectes (Procericambarus) rusticus</i>	+	85500	<i>Paratanytarsus sp</i>	12
08601	<i>Hydrachnidia</i>	+	85615	<i>Rheotanytarsus pellucidus</i>	12
11020	<i>Acerpenna pygmaea</i>	3 +	85625	<i>Rheotanytarsus sp</i>	162 +
11120	<i>Baetis flavistriga</i>	3 +	85802	<i>Tanytarsus n. sp nr. curticornis</i>	12
11130	<i>Baetis intercalaris</i>	2 +	85821	<i>Tanytarsus glabrescens group sp 7</i>	92
11651	<i>Proclotron sp (w/o hindwing pads)</i>	46 +	85840	<i>Tanytarsus sepp</i>	12
12900	<i>Heptagenia sp</i>	1	86100	<i>Chrysops sp</i>	+
13000	<i>Leucrocota sp</i>	3 +	87540	<i>Hemerodromia sp</i>	24
13400	<i>Stenacron sp</i>	223 +	93900	<i>Elimia sp</i>	35 +
13521	<i>Stenonema femoratum</i>	1	95100	<i>Physella sp</i>	3
17200	<i>Caenis sp</i>	1 +	96900	<i>Ferrissia sp</i>	16
21200	<i>Calopteryx sp</i>	1 +	98200	<i>Pisidium sp</i>	+
22300	<i>Argia sp</i>	13 +	98600	<i>Sphaerium sp</i>	+
23909	<i>Boyeria vinosa</i>	+			
43300	<i>Ranatra sp</i>	+	No. Quantitative Taxa: 38		Total Taxa: 64
45300	<i>Sigara sp</i>	+	No. Qualitative Taxa: 46		ICI: 38
45400	<i>Trichocorixa sp</i>	+	Number of Organisms: 1627		Qual EPT: 10
52200	<i>Cheumatopsyche sp</i>	15 +			
53800	<i>Hydroptila sp</i>	+			
58505	<i>Helicopsyche borealis</i>	+			
68025	<i>Ectopria sp</i>	+			
68075	<i>Psephenus herricki</i>	+			
68708	<i>Dubiraphia vittata group</i>	3 +			
68901	<i>Macronychus glabratus</i>	+			
69400	<i>Stenelmis sp</i>	9 +			
72340	<i>Dixella sp</i>	+			
72700	<i>Anopheles sp</i>	+			
74100	<i>Simulium sp</i>	+			
77120	<i>Ablabesmyia mallochi</i>	58 +			
77500	<i>Conchapelopia sp</i>	58 +			
78140	<i>Labrundinia pilosella</i>	162			
78655	<i>Procladius (Holotanypus) sp</i>	+			
80370	<i>Corynoneura lobata</i>	54			
80430	<i>Cricotopus (C.) tremulus group</i>	12			
81231	<i>Nanocladius (N.) crassicornus</i> or <i>N. (N.) "rectinervis"</i>	69			
82121	<i>Thienemanniella lobapodema</i>	+			
82820	<i>Cryptochironomus sp</i>	+			

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Fulton Creek

Collection Date: 08/18/2009 River Code: 02-145 RM: 9.40

dst. Richwood

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	77 +	85800	<i>Tanytarsus sp</i>	19
03360	<i>Plumatella sp</i>	+	85821	<i>Tanytarsus glabrescens group sp 7</i>	68
04666	<i>Helobdella triserialis</i>	1	86100	<i>Chrysops sp</i>	+
04935	<i>Erpobdella punctata punctata</i>	1 +	87540	<i>Hemerodromia sp</i>	5
04964	<i>Mooreobdella microstoma</i>	+	93900	<i>Elimia sp</i>	53 +
05800	<i>Caecidotea sp</i>	1	96264	<i>Planorbella (Pierosoma) pilsbryi</i>	4
06201	<i>Hyalella azteca</i>	+	96900	<i>Ferrissia sp</i>	17
06700	<i>Crangonyx sp</i>	308 +	98600	<i>Sphaerium sp</i>	+
07880	<i>Cambarus (Tubericambarus) thomai</i>	+			
08250	<i>Orconectes (Procericambarus) rusticus</i>	1	No. Quantitative Taxa: 34		Total Taxa: 52
11020	<i>Acerpenna pygmaea</i>	3	No. Qualitative Taxa: 29		ICI: 32
11120	<i>Baetis flavistriga</i>	5	Number of Organisms: 1995		Qual EPT: 1
11130	<i>Baetis intercalaris</i>	5			
12501	<i>Heptageniidae</i>	4			
21200	<i>Calopteryx sp</i>	3			
22001	<i>Coenagrionidae</i>	+			
22300	<i>Argia sp</i>	21 +			
23909	<i>Boyeria vinosa</i>	1 +			
52200	<i>Cheumatopsyche sp</i>	372 +			
60400	<i>Gyrinus sp</i>	+			
63300	<i>Hydroporini</i>	+			
68708	<i>Dubiraphia vittata group</i>	1 +			
68901	<i>Macronychus glabratus</i>	+			
69400	<i>Stenelmis sp</i>	6 +			
71900	<i>Tipula sp</i>	+			
77120	<i>Ablabesmyia mallochi</i>	+			
77355	<i>Clinotanypus pinguis</i>	+			
77500	<i>Conchapelopia sp</i>	126			
77750	<i>Hayesomyia senata or Thienemannimyia norena</i>	10			
78655	<i>Procladius (Holotanypus) sp</i>	+			
80370	<i>Corynoneura lobata</i>	32			
82141	<i>Thienemanniella xena</i>	8			
82820	<i>Cryptochironomus sp</i>	+			
83051	<i>Dicrotendipes simpsoni</i>	10			
83300	<i>Glyptotendipes (G.) sp</i>	10			
83840	<i>Microtendipes pedellus group</i>	58 +			
84210	<i>Paratendipes albimanus or P. duplicatus</i>	+			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	397 +			
84460	<i>Polypedilum (P.) fallax group</i>	19			
84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+			
84750	<i>Stictochironomus sp</i>	+			
85400	<i>Micropsectra sp</i>	10			
85500	<i>Paratanytarsus sp</i>	126			
85625	<i>Rheotanytarsus sp</i>	213			

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Fulton Creek
adj. Fulton Creek Rd.

Collection Date: 08/19/2009 River Code: 02-145 RM: 6.44

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	2			
03600	<i>Oligochaeta</i>	4			
05800	<i>Caecidotea sp</i>	3 +			
05900	<i>Lirceus sp</i>	4 +			
06700	<i>Crangonyx sp</i>	190 +			
08250	<i>Orconectes (Procericambarus) rusticus</i>	+			
11120	<i>Baetis flavistriga</i>	141 +			
11130	<i>Baetis intercalaris</i>	280 +			
13000	<i>Leucrocuta sp</i>	3			
13400	<i>Stenacron sp</i>	53 +			
13521	<i>Stenonema femoratum</i>	3 +			
18704	<i>Hexagenia atrocaudata</i>	+			
22300	<i>Argia sp</i>	8			
45300	<i>Sigara sp</i>	+			
45400	<i>Trichocorixa sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	94 +			
53800	<i>Hydroptila sp</i>	1			
68901	<i>Macronychus glabratus</i>	3 +			
69400	<i>Stenelmis sp</i>	5			
72101	<i>Psychodidae</i>	2			
72700	<i>Anopheles sp</i>	+			
72900	<i>Culex sp</i>	+			
74501	<i>Ceratopogonidae</i>	2			
77500	<i>Conchapelopia sp</i>	35			
78401	<i>Natarsia species A (sensu Roback, 1978)</i>	+			
78450	<i>Nilotanytus fimbriatus</i>	5			
80370	<i>Corynoneura lobata</i>	86			
81250	<i>Nanocladius (N.) minimus</i>	25			
82141	<i>Thienemanniella xena</i>	6			
83040	<i>Dicrotendipes neomodestus</i>	5			
83840	<i>Microtendipes pedellus group</i>	30 +			
84210	<i>Paratendipes albimanus</i> or <i>P. duplicatus</i>	20			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	101 +			
84460	<i>Polypedilum (P.) fallax group</i>	45 +			
84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+			
84750	<i>Stictochironomus sp</i>	+			
85625	<i>Rheotanytarsus sp</i>	91			
85821	<i>Tanytarsus glabrescens group sp 7</i>	30			
96900	<i>Ferrissia sp</i>	13			
98001	<i>Sphaeriidae</i>	2			

No. Quantitative Taxa: 31 Total Taxa: 40

No. Qualitative Taxa: 21 ICI: 38

Number of Organisms: 1292 Qual EPT: 6

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Fulton Creek
 Fulton Creek Rd.

Collection Date: 08/19/2009 River Code: 02-145 RM: 1.20

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+			
03360	<i>Plumatella sp</i>	+			
05900	<i>Lirceus sp</i>	+			
06201	<i>Hyalella azteca</i>	+			
06700	<i>Crangonyx sp</i>	+			
08250	<i>Orconectes (Procericambarus) rusticus</i>	+			
11120	<i>Baetis flavistriga</i>	+			
11130	<i>Baetis intercalaris</i>	+			
11651	<i>Procladius sp (w/o hindwing pads)</i>	+			
13000	<i>Leucrocuta sp</i>	+			
13400	<i>Stenacron sp</i>	+			
13521	<i>Stenonema femoratum</i>	+			
17200	<i>Caenis sp</i>	+			
18700	<i>Hexagenia sp</i>	+			
22001	<i>Coenagrionidae</i>	+			
23909	<i>Boyeria vinosa</i>	+			
45100	<i>Palmacorixa sp</i>	+			
45900	<i>Notonecta sp</i>	+			
51600	<i>Polycentropus sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
52430	<i>Ceratopsyche morosa group</i>	+			
60900	<i>Peltodytes sp</i>	+			
68075	<i>Psephenus herricki</i>	+			
68708	<i>Dubiraphia vittata group</i>	+			
69400	<i>Stenelmis sp</i>	+			
72340	<i>Dixella sp</i>	+			
72700	<i>Anopheles sp</i>	+			
72900	<i>Culex sp</i>	+			
77120	<i>Ablabesmyia mallochi</i>	+			
77800	<i>Helopelopia sp</i>	+			
81825	<i>Rheocricotopus (Psilocricotopus) robacki</i>	+			
82820	<i>Cryptochironomus sp</i>	+			
82885	<i>Cryptotendipes pseudotener</i>	+			
83840	<i>Microtendipes pedellus group</i>	+			
84210	<i>Paratendipes albimanus</i> or <i>P. duplicatus</i>	+			
84315	<i>Phaenopsectra flavipes</i>	+			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	+			
84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+			
93900	<i>Elimia sp</i>	+			
96900	<i>Ferrissia sp</i>	+			
98600	<i>Sphaerium sp</i>	+			

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Kebler Run

Collection Date: 07/22/2009 River Code: 02-148 RM: 0.87

River Rd.

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+	78140	<i>Labrundinia pilosella</i>	+
03600	<i>Oligochaeta</i>	+	78500	<i>Paramerina fragilis</i>	+
04653	<i>Glossiphonia complanata</i>	+	80420	<i>Cricotopus (C.) bicinctus</i>	+
04664	<i>Helobdella stagnalis</i>	+	82141	<i>Thienemanniella xena</i>	+
04935	<i>Erpobdella punctata punctata</i>	+	82820	<i>Cryptochironomus sp</i>	+
04964	<i>Mooreobdella microstoma</i>	+	83840	<i>Microtendipes pedellus group</i>	+
05900	<i>Lirceus sp</i>	+	84155	<i>Paralauterborniella nigrohalteralis</i>	+
08250	<i>Orconectes (Procericambarus) rusticus</i>	+	84210	<i>Paratendipes albimanus</i> or <i>P. duplicatus</i>	+
08601	<i>Hydrachnidia</i>	+	84450	<i>Polypedilum (Uresipedilum) flavum</i>	+
11120	<i>Baetis flavistriga</i>	+	84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+
11125	<i>Labiobaetis frondalis</i>	+	84750	<i>Stictochironomus sp</i>	+
11130	<i>Baetis intercalaris</i>	+	85625	<i>Rheotanytarsus sp</i>	+
13000	<i>Leucrocuta sp</i>	+	93900	<i>Elimia sp</i>	+
13400	<i>Stenacron sp</i>	+	95100	<i>Physella sp</i>	+
13521	<i>Stenonema femoratum</i>	+	96900	<i>Ferrissia sp</i>	+
13561	<i>Maccaffertium pulchellum</i>	+	97601	<i>Corbicula fluminea</i>	+
17200	<i>Caenis sp</i>	+	98600	<i>Sphaerium sp</i>	+
22001	<i>Coenagrionidae</i>	+			
22300	<i>Argia sp</i>	+	No. Quantitative Taxa: 0		Total Taxa: 61
23600	<i>Aeshna sp</i>	+	No. Qualitative Taxa: 61		ICI:
23700	<i>Anax sp</i>	+	Number of Organisms: 0		Qual EPT: 15
23909	<i>Boyeria vinosa</i>	+			
43300	<i>Ranatra sp</i>	+			
47600	<i>Sialis sp</i>	+			
51600	<i>Polycentropus sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
52430	<i>Ceratopsyche morosa group</i>	+			
53800	<i>Hydroptila sp</i>	+			
57400	<i>Neophylax sp</i>	+			
58505	<i>Helicopsyche borealis</i>	+			
59728	<i>Triaenodes marginatus</i>	+			
60900	<i>Peltodytes sp</i>	+			
65800	<i>Berosus sp</i>	+			
68075	<i>Psephenus herricki</i>	+			
68300	<i>Cyphon sp</i>	+			
68702	<i>Dubiraphia bivittata</i>	+			
68708	<i>Dubiraphia vittata group</i>	+			
69400	<i>Stenelmis sp</i>	+			
71900	<i>Tipula sp</i>	+			
72700	<i>Anopheles sp</i>	+			
74100	<i>Simulium sp</i>	+			
74501	<i>Ceratopogonidae</i>	+			
77120	<i>Ablabesmyia mallochi</i>	+			
77500	<i>Conchapelopia sp</i>	+			

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Ottawa Creek

Collection Date: 07/28/2009 River Code: 02-149 RM: 0.08

St. Rt. 257

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+	86100	<i>Chrysops sp</i>	+
03600	<i>Oligochaeta</i>	+	93900	<i>Elimia sp</i>	+
06201	<i>Hyalella azteca</i>	+	98600	<i>Sphaerium sp</i>	+
08250	<i>Orconectes (Procericambarus) rusticus</i>	+			
11120	<i>Baetis flavistriga</i>	+	No. Quantitative Taxa: 0		Total Taxa: 47
11130	<i>Baetis intercalaris</i>	+	No. Qualitative Taxa: 47		ICI:
11651	<i>Proclloeon sp (w/o hindwing pads)</i>	+	Number of Organisms: 0		Qual EPT: 16
13000	<i>Leucrocuta sp</i>	+			
13400	<i>Stenacron sp</i>	+			
13521	<i>Stenonema femoratum</i>	+			
17200	<i>Caenis sp</i>	+			
21200	<i>Calopteryx sp</i>	+			
22001	<i>Coenagrionidae</i>	+			
22300	<i>Argia sp</i>	+			
23909	<i>Boyeria vinosa</i>	+			
47600	<i>Sialis sp</i>	+			
50315	<i>Chimarra obscura</i>	+			
51600	<i>Polycentropus sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
52430	<i>Ceratopsyche morosa group</i>	+			
52530	<i>Hydropsyche depravata group</i>	+			
57400	<i>Neophylax sp</i>	+			
58505	<i>Helicopsyche borealis</i>	+			
59310	<i>Mystacides sepulchralis</i>	+			
59730	<i>Trienodes melaca</i>	+			
59970	<i>Petrophila sp</i>	+			
60900	<i>Peltodytes sp</i>	+			
68075	<i>Psephenus herricki</i>	+			
68702	<i>Dubiraphia bivittata</i>	+			
68707	<i>Dubiraphia quadrinotata</i>	+			
68901	<i>Macronychus glabratus</i>	+			
69400	<i>Stenelmis sp</i>	+			
72700	<i>Anopheles sp</i>	+			
74100	<i>Simulium sp</i>	+			
77120	<i>Ablabesmyia mallochi</i>	+			
77800	<i>Helopelopia sp</i>	+			
83040	<i>Dicrotendipes neomodestus</i>	+			
83840	<i>Microtendipes pedellus group</i>	+			
84210	<i>Paratendipes albimanus</i> or <i>P. duplicatus</i>	+			
84300	<i>Phaenopsectra obediens group</i>	+			
84470	<i>Polypedilum (P.) illinoense</i>	+			
84750	<i>Stictochironomus sp</i>	+			
84800	<i>Tribelos jucundum</i>	+			
85625	<i>Rheotanytarsus sp</i>	+			

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Battle Run
 Elm St.

Collection Date: 08/04/2009 River Code: 02-154 RM: 0.25

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+			
03600	<i>Oligochaeta</i>	+			
04601	<i>Glossiphoniidae</i>	+			
05900	<i>Lirceus sp</i>	+			
08250	<i>Orconectes (Procericambarus) rusticus</i>	+			
11120	<i>Baetis flavistriga</i>	+			
11130	<i>Baetis intercalaris</i>	+			
13000	<i>Leucrocuta sp</i>	+			
13400	<i>Stenacron sp</i>	+			
13521	<i>Stenonema femoratum</i>	+			
22001	<i>Coenagrionidae</i>	+			
23909	<i>Boyeria vinosa</i>	+			
29020	<i>Sympetrum vicinum</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
52430	<i>Ceratopsyche morosa group</i>	+			
52530	<i>Hydropsyche depravata group</i>	+			
59300	<i>Mystacides sp</i>	+			
60900	<i>Peltodytes sp</i>	+			
68707	<i>Dubiraphia quadrinotata</i>	+			
68708	<i>Dubiraphia vittata group</i>	+			
69400	<i>Stenelmis sp</i>	+			
72700	<i>Anopheles sp</i>	+			
77500	<i>Conchapelopia sp</i>	+			
78401	<i>Natarsia species A (sensu Roback, 1978)</i>	+			
78655	<i>Procladius (Holotanypus) sp</i>	+			
81650	<i>Parametriocnemus sp</i>	+			
82730	<i>Chironomus (C.) decorus group</i>	+			
82820	<i>Cryptochironomus sp</i>	+			
83840	<i>Microtendipes pedellus group</i>	+			
84210	<i>Paratendipes albimanus or P. duplicatus</i>	+			
84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+			
84750	<i>Stictochironomus sp</i>	+			
85500	<i>Paratanytarsus sp</i>	+			
85800	<i>Tanytarsus sp</i>	+			
95100	<i>Physella sp</i>	+			
98600	<i>Sphaerium sp</i>	+			

No. Quantitative Taxa: 0	Total Taxa: 36
No. Qualitative Taxa: 36	ICI:
Number of Organisms: 0	Qual EPT: 9

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Patton Run

Collection Date: 07/22/2009 River Code: 02-155 RM: 2.30

Boundary Rd.

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+	98600	<i>Sphaerium sp</i>	+
03040	<i>Fredericella sp</i>	+			
03600	<i>Oligochaeta</i>	+	No. Quantitative Taxa: 0		Total Taxa: 45
04935	<i>Erpobdella punctata punctata</i>	+	No. Qualitative Taxa: 45		ICI:
04960	<i>Mooreobdella sp</i>	+	Number of Organisms: 0		Qual EPT: 12
06201	<i>Hyalella azteca</i>	+			
06700	<i>Crangonyx sp</i>	+			
07840	<i>Cambarus (Cambarus) sciotensis</i>	+			
08250	<i>Orconectes (Procericambarus) rusticus</i>	+			
08601	<i>Hydrachnidia</i>	+			
11120	<i>Baetis flavistriga</i>	+			
11130	<i>Baetis intercalaris</i>	+			
11645	<i>Procloeon sp</i>	+			
13000	<i>Leucrocuta sp</i>	+			
13400	<i>Stenacron sp</i>	+			
14950	<i>Leptophlebia sp or Paraleptophlebia sp</i>	+			
17200	<i>Caenis sp</i>	+			
22300	<i>Argia sp</i>	+			
23909	<i>Boyeria vinosa</i>	+			
45300	<i>Sigara sp</i>	+			
51600	<i>Polycentropus sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
52430	<i>Ceratopsyche morosa group</i>	+			
58505	<i>Helicopsyche borealis</i>	+			
59310	<i>Mystacides sepulchralis</i>	+			
68707	<i>Dubiraphia quadrinotata</i>	+			
68708	<i>Dubiraphia vittata group</i>	+			
68901	<i>Macronychus glabratus</i>	+			
69400	<i>Stenelmis sp</i>	+			
72700	<i>Anopheles sp</i>	+			
77120	<i>Ablabesmyia mallochi</i>	+			
78140	<i>Labrundinia pilosella</i>	+			
82820	<i>Cryptochironomus sp</i>	+			
82885	<i>Cryptotendipes pseudotener</i>	+			
83820	<i>Microtendipes "caelum" (sensu Simpson & Bode, 1980)</i>	+			
83840	<i>Microtendipes pedellus group</i>	+			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	+			
84470	<i>Polypedilum (P.) illinoense</i>	+			
84480	<i>Polypedilum (P.) laetum group</i>	+			
84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+			
84750	<i>Stictochironomus sp</i>	+			
85625	<i>Rheotanytarsus sp</i>	+			
93900	<i>Elimia sp</i>	+			
95100	<i>Physella sp</i>	+			

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Little Scioto River

Collection Date: 07/27/2009 River Code: 02-158 RM: 25.60

Twp. Rd. 68

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+			
03600	<i>Oligochaeta</i>	+			
04666	<i>Helobdella triserialis</i>	+			
04935	<i>Erpobdella punctata punctata</i>	+			
08250	<i>Orconectes (Procericambarus) rusticus</i>	+			
08601	<i>Hydrachnidia</i>	+			
11120	<i>Baetis flavistriga</i>	+			
11651	<i>Procladius sp (w/o hindwing pads)</i>	+			
13400	<i>Stenacron sp</i>	+			
13521	<i>Stenonema femoratum</i>	+			
17200	<i>Caenis sp</i>	+			
22300	<i>Argia sp</i>	+			
43205	<i>Nepa apiculata</i>	+			
43300	<i>Ranatra sp</i>	+			
45100	<i>Palmaria sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
52430	<i>Ceratopsyche morosa group</i>	+			
58505	<i>Helicopsyche borealis</i>	+			
59300	<i>Mystacides sp</i>	+			
65800	<i>Berosus sp</i>	+			
68075	<i>Psephenus herricki</i>	+			
68708	<i>Dubiraphia vittata group</i>	+			
69400	<i>Stenelmis sp</i>	+			
72340	<i>Dixella sp</i>	+			
77800	<i>Helopelopia sp</i>	+			
78401	<i>Natarsia species A (sensu Roback, 1978)</i>	+			
78655	<i>Procladius (Holotanypus) sp</i>	+			
79400	<i>Zavrelimyia sp</i>	+			
82141	<i>Thienemanniella xena</i>	+			
82820	<i>Cryptochironomus sp</i>	+			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	+			
84520	<i>Polypedilum (Tripodura) halterale group</i>	+			
84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+			
84800	<i>Tribelos jucundum</i>	+			
85625	<i>Rheotanytarsus sp</i>	+			
93200	<i>Hydrobiidae</i>	+			
96264	<i>Planorbella (Pierosoma) pilsbryi</i>	+			
98600	<i>Sphaerium sp</i>	+			

No. Quantitative Taxa: 0 Total Taxa: 38

No. Qualitative Taxa: 38 ICI:

Number of Organisms: 0 Qual EPT: 9

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Little Scioto River

Collection Date: 08/18/2009 River Code: 02-158 RM: 19.70

County Line Rd.

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+			
03360	<i>Plumatella sp</i>	+			
03600	<i>Oligochaeta</i>	+			
04935	<i>Erpobdella punctata punctata</i>	+			
08250	<i>Orconectes (Procericambarus) rusticus</i>	+			
08601	<i>Hydrachnidia</i>	+			
11120	<i>Baetis flavistriga</i>	+			
11250	<i>Centroptilum sp (w/o hindwing pads)</i>	+			
13400	<i>Stenacron sp</i>	+			
17200	<i>Caenis sp</i>	+			
21200	<i>Calopteryx sp</i>	+			
22300	<i>Argia sp</i>	+			
24900	<i>Gomphus sp</i>	+			
43300	<i>Ranatra sp</i>	+			
45100	<i>Palmacorixa sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
52430	<i>Ceratopsyche morosa group</i>	+			
59300	<i>Mystacides sp</i>	+			
63300	<i>Hydroporini</i>	+			
68601	<i>Ancyronyx variegata</i>	+			
68708	<i>Dubiraphia vittata group</i>	+			
72700	<i>Anopheles sp</i>	+			
78401	<i>Natarsia species A (sensu Roback, 1978)</i>	+			
78655	<i>Procladius (Holotanypus) sp</i>	+			
82730	<i>Chironomus (C.) decorus group</i>	+			
82885	<i>Cryptotendipes pseudotener</i>	+			
83840	<i>Microtendipes pedellus group</i>	+			
84155	<i>Paralauterborniella nigrohalteralis</i>	+			
84210	<i>Paratendipes albimanus or P. duplicatus</i>	+			
84315	<i>Phaenopsectra flavipes</i>	+			
84460	<i>Polypedilum (P.) fallax group</i>	+			
84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+			
84700	<i>Stenochironomus sp</i>	+			
84750	<i>Stictochironomus sp</i>	+			
85500	<i>Paratanytarsus sp</i>	+			
85800	<i>Tanytarsus sp</i>	+			
85821	<i>Tanytarsus glabrescens group sp 7</i>	+			
95100	<i>Physella sp</i>	+			
97601	<i>Corbicula fluminea</i>	+			
98200	<i>Pisidium sp</i>	+			
98600	<i>Sphaerium sp</i>	+			
99100	<i>Pyganodon grandis</i>	+			

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Little Scioto River
Kenton-Galion Rd.

Collection Date: 08/18/2009 River Code: 02-158 RM: 11.11

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
00653	<i>Eunapius fragilis</i>	+			
03600	<i>Oligochaeta</i>	+			
08250	<i>Orconectes (Procericambarus) rusticus</i>	+			
11120	<i>Baetis flavistriga</i>	+			
11130	<i>Baetis intercalaris</i>	+			
11670	<i>Procloeon viridoculare</i>	+			
12912	<i>Heptagenia diabasia</i>	+			
13000	<i>Leucrocuta sp</i>	+			
13400	<i>Stenacron sp</i>	+			
13521	<i>Stenonema femoratum</i>	+			
17200	<i>Caenis sp</i>	+			
18708	<i>Hexagenia bilineata</i>	+			
21200	<i>Calopteryx sp</i>	+			
22001	<i>Coenagrionidae</i>	+			
22300	<i>Argia sp</i>	+			
45000	<i>Hesperocorixa sp</i>	+			
45400	<i>Trichocorixa sp</i>	+			
47600	<i>Sialis sp</i>	+			
49200	<i>Climacia sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
59100	<i>Ceraclea sp</i>	+			
67000	<i>Helophorus sp</i>	+			
68708	<i>Dubiraphia vittata group</i>	+			
68901	<i>Macronychus glabratus</i>	+			
77120	<i>Ablabesmyia mallochi</i>	+			
77500	<i>Conchapelopia sp</i>	+			
78140	<i>Labrundinia pilosella</i>	+			
78401	<i>Natarsia species A (sensu Roback, 1978)</i>	+			
78655	<i>Procladius (Holotanypus) sp</i>	+			
82885	<i>Cryptotendipes pseudotener</i>	+			
84040	<i>Parachironomus frequens</i>	+			
84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+			
84700	<i>Stenochironomus sp</i>	+			
84888	<i>Xenochironomus xenolabis</i>	+			
85625	<i>Rheotanytarsus sp</i>	+			
97601	<i>Corbicula fluminea</i>	+			
98600	<i>Sphaerium sp</i>	+			

No. Quantitative Taxa: 0	Total Taxa: 37
No. Qualitative Taxa: 37	ICI:
Number of Organisms: 0	Qual EPT: 11

Ohio EPA/DSW Ecological Assessment Section Macroinvertebrate Collection

Site: Little Scioto River

Collection Date: 08/18/2009 River Code: 02-158 RM: 9.24

Hillman Ford Rd.

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01320	<i>Hydra sp</i>	18	78655	<i>Procladius (Holotanypus) sp</i>	+
01801	<i>Turbellaria</i>	26 +	80360	<i>Corynoneura "celeripes" (sensu Simpson & Bode, 1980)</i>	4
03360	<i>Plumatella sp</i>	1 +	80370	<i>Corynoneura lobata</i>	92
03600	<i>Oligochaeta</i>	16 +	81231	<i>Nanocladius (N.) crassicornus</i> or <i>N. (N.) "rectinervis"</i>	7
04960	<i>Mooreobdella sp</i>	+	82121	<i>Thienemanniella lobapodema</i>	8
08250	<i>Orconectes (Procericambarus) rusticus</i>	+	82820	<i>Cryptochironomus sp</i>	+
08601	<i>Hydrachnidia</i>	+	83820	<i>Microtendipes "caelum" (sensu Simpson & Bode, 1980)</i>	7
11020	<i>Acerpenna pygmaea</i>	2	83840	<i>Microtendipes pedellus</i> group	177 +
11120	<i>Baetis flavistriga</i>	+	84155	<i>Paralauterborniella nigrohalteralis</i>	+
11130	<i>Baetis intercalaris</i>	6 +	84210	<i>Paratendipes albimanus</i> or <i>P. duplicatus</i>	52 +
11651	<i>Procloeon sp (w/o hindwing pads)</i>	2	84300	<i>Phaenopsectra obediens</i> group	37
13000	<i>Leucrocuta sp</i>	36 +	84450	<i>Polypedilum (Uresipedilum) flavum</i>	+
13400	<i>Stenacron sp</i>	96 +	84460	<i>Polypedilum (P.) fallax</i> group	111
13561	<i>Maccaffertium pulchellum</i>	9 +	84540	<i>Polypedilum (Tripodura) scalaenum</i> group	103 +
13570	<i>Maccaffertium terminatum</i>	4	84790	<i>Tribelos fuscicorne</i>	27
17200	<i>Caenis sp</i>	+	85500	<i>Paratanytarsus sp</i>	7
21200	<i>Calopteryx sp</i>	+	85625	<i>Rheotanytarsus sp</i>	29
22001	<i>Coenagrionidae</i>	+	85720	<i>Stempellinella fimbriata</i>	+
22300	<i>Argia sp</i>	27 +	85800	<i>Tanytarsus sp</i>	52
43300	<i>Ranatra sp</i>	+	85821	<i>Tanytarsus glabrescens</i> group sp 7	22
45400	<i>Trichocorixa sp</i>	+	86100	<i>Chrysops sp</i>	+
47600	<i>Sialis sp</i>	+	87540	<i>Hemerodromia sp</i>	5
50315	<i>Chimarra obscura</i>	+	93900	<i>Elimia sp</i>	34 +
52200	<i>Cheumatopsyche sp</i>	8 +	96900	<i>Ferrissia sp</i>	4
52430	<i>Ceratopsyche morosa</i> group	+	98600	<i>Sphaerium sp</i>	4 +
52530	<i>Hydropsyche depravata</i> group	1 +	99860	<i>Lampsilis radiata luteola</i>	+
57400	<i>Neophylax sp</i>	+			
57900	<i>Pycnopsyche sp</i>	+			
59970	<i>Petrophila sp</i>	+			
68075	<i>Psephenus herricki</i>	+			
68601	<i>Ancyronyx variegata</i>	1 +			
68708	<i>Dubiraphia vittata</i> group	+			
68901	<i>Macronychus glabratus</i>	5 +			
69400	<i>Stenelmis sp</i>	+			
72700	<i>Anopheles sp</i>	+			
74100	<i>Simulium sp</i>	+			
74501	<i>Ceratopogonidae</i>	+			
77120	<i>Ablabesmyia mallochi</i>	+			
77130	<i>Ablabesmyia rhamphe</i> group	+			
77500	<i>Conchapelopia sp</i>	15 +			
77750	<i>Hayesomyia senata</i> or <i>Thienemannimyia norena</i>	22 +			
77800	<i>Helopelopia sp</i>	15 +			
78140	<i>Labrundinia pilosella</i>	29			
78450	<i>Nilotanypus fimbriatus</i>	+			

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Little Scioto River

Collection Date: 08/18/2009 River Code: 02-158 RM: 6.50

dst. Holland Rd., dst. N. Rockswale D.

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01320	<i>Hydra sp</i>	173			
01801	<i>Turbellaria</i>	317 +			
03600	<i>Oligochaeta</i>	896 +			
08601	<i>Hydrachnidia</i>	+			
11200	<i>Callibaetis sp</i>	+			
22001	<i>Coenagrionidae</i>	8 +			
22300	<i>Argia sp</i>	16			
45400	<i>Trichocorixa sp</i>	+			
53800	<i>Hydroptila sp</i>	8 +			
60900	<i>Peltodytes sp</i>	+			
65800	<i>Berosus sp</i>	+			
69400	<i>Stenelmis sp</i>	+			
72700	<i>Anopheles sp</i>	+			
77120	<i>Ablabesmyia mallochi</i>	94 +			
77130	<i>Ablabesmyia rhamphe group</i>	31 +			
77355	<i>Clinotanypus pinguis</i>	31			
77500	<i>Conchapelopia sp</i>	+			
78655	<i>Procladius (Holotanypus) sp</i>	+			
80510	<i>Cricotopus (Isocladius) sylvestris group</i>	+			
82820	<i>Cryptochironomus sp</i>	+			
83002	<i>Dicrotendipes modestus</i>	153 +			
83040	<i>Dicrotendipes neomodestus</i>	231 +			
83050	<i>Dicrotendipes lucifer</i>	1496 +			
83051	<i>Dicrotendipes simpsoni</i>	652 +			
83158	<i>Endochironomus nigricans</i>	+			
83300	<i>Glyptotendipes (G.) sp</i>	94 +			
84040	<i>Parachironomus frequens</i>	+			
84460	<i>Polypedilum (P.) fallax group</i>	63			
84470	<i>Polypedilum (P.) illinoense</i>	+			
84520	<i>Polypedilum (Tripodura) halterale group</i>	63			
84540	<i>Polypedilum (Tripodura) scalaenum group</i>	31 +			
84800	<i>Tribelos jucundum</i>	31 +			
85500	<i>Paratanytarsus sp</i>	31 +			
85800	<i>Tanytarsus sp</i>	+			
87400	<i>Stratiomys sp</i>	+			
95100	<i>Physella sp</i>	4			
96120	<i>Menetus (Micromenetus) dilatatus</i>	27			
96900	<i>Ferrissia sp</i>	15			

No. Quantitative Taxa: 22 Total Taxa: 38

No. Qualitative Taxa: 30 ICI: 10

Number of Organisms: 4465 Qual EPT: 2

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Little Scioto River

Collection Date: 08/15/2009 River Code: 02-158 RM: 6.24

Twp. Rd. 97-A

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01320	<i>Hydra sp</i>	17 +			
01801	<i>Turbellaria</i>	119 +			
03600	<i>Oligochaeta</i>	857 +			
08250	<i>Orconectes (Procericambarus) rusticus</i>	+			
11200	<i>Callibaetis sp</i>	4 +			
13400	<i>Stenacron sp</i>	5 +			
22001	<i>Coenagrionidae</i>	+			
22300	<i>Argia sp</i>	106 +			
45100	<i>Palmarcorixa sp</i>	+			
45400	<i>Trichocorixa sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
53800	<i>Hydroptila sp</i>	8 +			
60900	<i>Peltodytes sp</i>	+			
62200	<i>Copelatus sp</i>	+			
63600	<i>Hygrotus sp</i>	+			
68601	<i>Ancyronyx variegata</i>	+			
74501	<i>Ceratopogonidae</i>	16 +			
77120	<i>Ablabesmyia mallochi</i>	98			
77130	<i>Ablabesmyia rhamphe group</i>	+			
78655	<i>Procladius (Holotanypus) sp</i>	33 +			
80510	<i>Cricotopus (Isocladius) sylvestris group</i>	33 +			
82730	<i>Chironomus (C.) decorus group</i>	263 +			
82800	<i>Cladopelma sp</i>	+			
82820	<i>Cryptochironomus sp</i>	+			
83002	<i>Dicrotendipes modestus</i>	591 +			
83003	<i>Dicrotendipes fumidus</i>	+			
83040	<i>Dicrotendipes neomodestus</i>	263 +			
83050	<i>Dicrotendipes lucifer</i>	853 +			
83300	<i>Glyptotendipes (G.) sp</i>	66			
84002	<i>Parachironomus sp B (sensu Saether, 1977)</i>	+			
84315	<i>Phaenopsectra flavipes</i>	+			
84460	<i>Polypedilum (P.) fallax group</i>	164			
84470	<i>Polypedilum (P.) illinoense</i>	98 +			
84540	<i>Polypedilum (Tripodura) scalaenum group</i>	98			
85500	<i>Paratanytarsus sp</i>	66 +			
95100	<i>Physella sp</i>	+			
96120	<i>Menetus (Micromenetus) dilatatus</i>	7 +			
96900	<i>Ferrissia sp</i>	913 +			
98600	<i>Sphaerium sp</i>	18			

No. Quantitative Taxa: 23 Total Taxa: 39

No. Qualitative Taxa: 34 ICI: 12

Number of Organisms: 4696 Qual EPT: 4

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Little Scioto River
Owens-Green Camp Rd.

Collection Date: 08/18/2009 River Code: 02-158 RM: 0.39

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+			
03600	<i>Oligochaeta</i>	+			
06700	<i>Crangonyx sp</i>	+			
08250	<i>Orconectes (Procericambarus) rusticus</i>	+			
11120	<i>Baetis flavistriga</i>	+			
11130	<i>Baetis intercalaris</i>	+			
13400	<i>Stenacron sp</i>	+			
22001	<i>Coenagrionidae</i>	+			
45300	<i>Sigara sp</i>	+			
45400	<i>Trichocorixa sp</i>	+			
45900	<i>Notonecta sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
68601	<i>Ancyronyx variegata</i>	+			
68708	<i>Dubiraphia vittata group</i>	+			
72700	<i>Anopheles sp</i>	+			
77120	<i>Ablabesmyia mallochi</i>	+			
77130	<i>Ablabesmyia rhamphe group</i>	+			
78655	<i>Procladius (Holotanypus) sp</i>	+			
82730	<i>Chironomus (C.) decorus group</i>	+			
82820	<i>Cryptochironomus sp</i>	+			
83040	<i>Dicrotendipes neomodestus</i>	+			
84470	<i>Polypedilum (P.) illinoense</i>	+			
84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+			
84800	<i>Tribelos jucundum</i>	+			
85800	<i>Tanytarsus sp</i>	+			

No. Quantitative Taxa: 0	Total Taxa: 25
No. Qualitative Taxa: 25	ICI:
Number of Organisms: 0	Qual EPT: 4

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Honey Creek
at mouth

Collection Date: 07/27/2009 River Code: 02-159 RM: 0.10

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01320	<i>Hydra sp</i>	+			
01801	<i>Turbellaria</i>	+			
06201	<i>Hyalella azteca</i>	+			
08250	<i>Orconectes (Procericambarus) rusticus</i>	+			
11120	<i>Baetis flavistriga</i>	+			
11130	<i>Baetis intercalaris</i>	+			
13400	<i>Stenacron sp</i>	+			
17200	<i>Caenis sp</i>	+			
21200	<i>Calopteryx sp</i>	+			
22001	<i>Coenagrionidae</i>	+			
22300	<i>Argia sp</i>	+			
23909	<i>Boyeria vinosa</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
53800	<i>Hydroptila sp</i>	+			
59310	<i>Mystacides sepulchralis</i>	+			
63300	<i>Hydroporini</i>	+			
65800	<i>Berosus sp</i>	+			
68201	<i>Scirtidae</i>	+			
68702	<i>Dubiraphia bivittata</i>	+			
68708	<i>Dubiraphia vittata group</i>	+			
69400	<i>Stenelmis sp</i>	+			
72700	<i>Anopheles sp</i>	+			
74100	<i>Simulium sp</i>	+			
77120	<i>Ablabesmyia mallochi</i>	+			
77500	<i>Conchapelopia sp</i>	+			
77750	<i>Hayesomyia senata or Thienemannimyia norena</i>	+			
78655	<i>Procladius (Holotanypus) sp</i>	+			
80204	<i>Brillia flavifrons group</i>	+			
81825	<i>Rheocricotopus (Psilocricotopus) robacki</i>	+			
82820	<i>Cryptochironomus sp</i>	+			
82885	<i>Cryptotendipes pseudotener</i>	+			
83840	<i>Microtendipes pedellus group</i>	+			
84210	<i>Paratendipes albimanus or P. duplicatus</i>	+			
84300	<i>Phaenopsectra obediens group</i>	+			
85500	<i>Paratanytarsus sp</i>	+			
85625	<i>Rheotanytarsus sp</i>	+			
85800	<i>Tanytarsus sp</i>	+			
87540	<i>Hemerodromia sp</i>	+			
93900	<i>Elimia sp</i>	+			
95100	<i>Physella sp</i>	+			

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Rock Fork

Collection Date: 07/17/2009 River Code: 02-162 RM: 8.13

Marseilles-Galion Rd.

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+			
03360	<i>Plumatella sp</i>	+			
03600	<i>Oligochaeta</i>	+			
04664	<i>Helobdella stagnalis</i>	+			
04935	<i>Erpobdella punctata punctata</i>	+			
04964	<i>Mooreobdella microstoma</i>	+			
08220	<i>Orconectes (Gremicambarus) immunis</i>	+			
08601	<i>Hydrachnidia</i>	+			
11120	<i>Baetis flavistriga</i>	+			
11130	<i>Baetis intercalaris</i>	+			
11200	<i>Callibaetis sp</i>	+			
13400	<i>Stenacron sp</i>	+			
13521	<i>Stenonema femoratum</i>	+			
17200	<i>Caenis sp</i>	+			
22001	<i>Coenagrionidae</i>	+			
23600	<i>Aeshna sp</i>	+			
23704	<i>Anax junius</i>	+			
42700	<i>Belostoma sp</i>	+			
45000	<i>Hesperocorixa sp</i>	+			
59728	<i>Trienodes marginatus</i>	+			
63300	<i>Hydroporini</i>	+			
64050	<i>Liodessus sp</i>	+			
65800	<i>Berosus sp</i>	+			
67300	<i>Hydrochus sp</i>	+			
67700	<i>Paracymus sp</i>	+			
68300	<i>Cyphon sp</i>	+			
68702	<i>Dubiraphia bivittata</i>	+			
72340	<i>Dixella sp</i>	+			
72700	<i>Anopheles sp</i>	+			
77355	<i>Clinotanypus pinguis</i>	+			
77500	<i>Conchelopodia sp</i>	+			
78655	<i>Procladius (Holotanypus) sp</i>	+			
82820	<i>Cryptochironomus sp</i>	+			
83003	<i>Dicrotendipes fumidus</i>	+			
83840	<i>Microtendipes pedellus group</i>	+			
84470	<i>Polypedilum (P.) illinoense</i>	+			
94800	<i>Stagnicola sp</i>	+			
95100	<i>Physella sp</i>	+			
96002	<i>Helisoma anceps anceps</i>	+			
96264	<i>Planorbella (Pierosoma) pilsbryi</i>	+			
98600	<i>Sphaerium sp</i>	+			

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Rock Fork

Collection Date: 08/18/2009 River Code: 02-162 RM: 1.10

Kenton-Galion Rd.

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
03360	<i>Plumatella sp</i>	1	82885	<i>Cryptotendipes pseudotener</i>	+
03600	<i>Oligochaeta</i>	16 +	83040	<i>Dicrotendipes neomodestus</i>	85
08250	<i>Orconectes (Procericambarus) rusticus</i>	2 +	83840	<i>Microtendipes pedellus group</i>	298
11120	<i>Baetis flavistriga</i>	+	84210	<i>Paratendipes albimanus</i> or <i>P. duplicatus</i>	43
11130	<i>Baetis intercalaris</i>	+	84450	<i>Polypedilum (Uresipedilum) flavum</i>	+
11200	<i>Callibaetis sp</i>	+	84460	<i>Polypedilum (P.) fallax group</i>	128
11650	<i>Procloeon sp (w/ hindwing pads)</i>	6 +	84520	<i>Polypedilum (Tripodura) halterale group</i>	+
11651	<i>Procloeon sp (w/o hindwing pads)</i>	+	84540	<i>Polypedilum (Tripodura) scalaenum group</i>	28 +
11670	<i>Procloeon viridoculare</i>	+	84750	<i>Stictochironomus sp</i>	+
13000	<i>Leucrocuta sp</i>	34 +	85230	<i>Cladotanytarsus mancus group</i>	28
13400	<i>Stenacron sp</i>	170 +	85500	<i>Paratanytarsus sp</i>	43
13521	<i>Stenonema femoratum</i>	10 +	85625	<i>Rheotanytarsus sp</i>	71
13561	<i>Maccaffertium pulchellum</i>	3 +	85700	<i>Stempellina sp</i>	14
17200	<i>Caenis sp</i>	357 +	85800	<i>Tanytarsus sp</i>	43 +
18750	<i>Hexagenia limbata</i>	1 +	85821	<i>Tanytarsus glabrescens group sp 7</i>	57
22001	<i>Coenagrionidae</i>	+	85840	<i>Tanytarsus sepp</i>	43
22300	<i>Argia sp</i>	24 +	89716	<i>Limnophora discreta</i>	+
43300	<i>Ranatra sp</i>	+	95100	<i>Physella sp</i>	+
43570	<i>Neoplea sp</i>	+	96900	<i>Ferrissia sp</i>	4
45100	<i>Palmacorixa sp</i>	+	98600	<i>Sphaerium sp</i>	+
45400	<i>Trichocorixa sp</i>	+			
50315	<i>Chimarra obscura</i>	+	No. Quantitative Taxa: 38		Total Taxa: 63
52200	<i>Cheumatopsyche sp</i>	24 +	No. Qualitative Taxa: 43		ICI: 44
52430	<i>Ceratopsyche morosa group</i>	+	Number of Organisms: 1844		Qual EPT: 16
58505	<i>Helicopsyche borealis</i>	+			
60900	<i>Peltodytes sp</i>	+			
68075	<i>Psephenus herricki</i>	+			
68708	<i>Dubiraphia vittata group</i>	+			
68901	<i>Macronychus glabratus</i>	+			
69400	<i>Stenelmis sp</i>	9 +			
72700	<i>Anopheles sp</i>	+			
74501	<i>Ceratopogonidae</i>	16			
77120	<i>Ablabesmyia mallochi</i>	28 +			
77130	<i>Ablabesmyia rhamphe group</i>	14			
77500	<i>Conchapelopia sp</i>	43			
77750	<i>Hayesomyia senata</i> or <i>Thienemannimyia norena</i>	14			
77800	<i>Helopelopia sp</i>	85			
78655	<i>Procladius (Holotanypus) sp</i>	14 +			
80370	<i>Corynoneura lobata</i>	4			
80410	<i>Cricotopus (C.) sp</i>	28			
81231	<i>Nanocladius (N.) crassicornus</i> or <i>N. (N.) "rectinervis"</i>	14			
82730	<i>Chironomus (C.) decorus group</i>	28 +			
82820	<i>Cryptochironomus sp</i>	14 +			

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Rush Creek

Collection Date: 07/20/2009 River Code: 02-165 RM: 39.45

Co. Rd. 118

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+	82730	<i>Chironomus (C.) decorus group</i>	+
03600	<i>Oligochaeta</i>	+	83820	<i>Microtendipes "caelum" (sensu Simpson & Bode, 1980)</i>	+
06201	<i>Hyalella azteca</i>	+	83840	<i>Microtendipes pedellus group</i>	+
06700	<i>Crangonyx sp</i>	+	84210	<i>Paratendipes albimanus or P. duplicatus</i>	+
08250	<i>Orconectes (Procericambarus) rusticus</i>	+	84315	<i>Phaenopsectra flavipes</i>	+
08601	<i>Hydrachnidia</i>	+	84440	<i>Polypedilum (Uresipedilum) aviceps</i>	+
11120	<i>Baetis flavistriga</i>	+	84450	<i>Polypedilum (Uresipedilum) flavum</i>	+
11430	<i>Dipheter hageni</i>	+	84460	<i>Polypedilum (P.) fallax group</i>	+
13400	<i>Stenacron sp</i>	+	84480	<i>Polypedilum (P.) laetum group</i>	+
13521	<i>Stenonema femoratum</i>	+	84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+
13590	<i>Maccaffertium vicarium</i>	+	84750	<i>Stictochironomus sp</i>	+
17200	<i>Caenis sp</i>	+	85615	<i>Rheotanytarsus pellucidus</i>	+
21001	<i>Calopterygidae</i>	+	85625	<i>Rheotanytarsus sp</i>	+
22300	<i>Argia sp</i>	+	85720	<i>Stempellinella fimbriata</i>	+
23600	<i>Aeshna sp</i>	+	85752	<i>Sublettea coffmani</i>	+
23909	<i>Boyeria vinosa</i>	+	87540	<i>Hemerodromia sp</i>	+
34500	<i>Perlesta placida complex</i>	+	95100	<i>Physella sp</i>	+
45100	<i>Palmacorixa sp</i>	+	96900	<i>Ferrissia sp</i>	+
45300	<i>Sigara sp</i>	+	98600	<i>Sphaerium sp</i>	+
47600	<i>Sialis sp</i>	+			
49200	<i>Climacia sp</i>	+			
50301	<i>Chimarra aterrima</i>	+	No. Quantitative Taxa: 0		Total Taxa: 63
51400	<i>Nyctiophylax sp</i>	+	No. Qualitative Taxa: 63		ICI:
52200	<i>Cheumatopsyche sp</i>	+	Number of Organisms: 0		Qual EPT: 13
52430	<i>Ceratopsyche morosa group</i>	+			
52530	<i>Hydropsyche depravata group</i>	+			
57900	<i>Pycnopsyche sp</i>	+			
68130	<i>Helichus sp</i>	+			
68707	<i>Dubiraphia quadrinotata</i>	+			
68708	<i>Dubiraphia vittata group</i>	+			
68901	<i>Macronychus glabratus</i>	+			
69225	<i>Optioservus fastiditus</i>	+			
69400	<i>Stenelmis sp</i>	+			
70600	<i>Antocha sp</i>	+			
71100	<i>Hexatoma sp</i>	+			
77120	<i>Ablabesmyia mallochi</i>	+			
77500	<i>Conchapelopia sp</i>	+			
77800	<i>Helopelopia sp</i>	+			
78401	<i>Natarsia species A (sensu Roback, 1978)</i>	+			
80204	<i>Brillia flavifrons group</i>	+			
81650	<i>Parametriocnemus sp</i>	+			
81825	<i>Rheocricotopus (Psilocricotopus) robacki</i>	+			
82141	<i>Thienemanniella xena</i>	+			
82200	<i>Tvetenia bavarica group</i>	+			

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Rush Creek

Collection Date: 07/21/2009 River Code: 02-165 RM: 36.15

Co. Rd. 110

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
03600	<i>Oligochaeta</i>	+	85800	<i>Tanytarsus sp</i>	+
07840	<i>Cambarus (Cambarus) sciotensis</i>	+	85840	<i>Tanytarsus sepp</i>	+
11120	<i>Baetis flavistriga</i>	+	86100	<i>Chrysops sp</i>	+
11130	<i>Baetis intercalaris</i>	+	94400	<i>Fossaria sp</i>	+
11650	<i>Procloeon sp (w/ hindwing pads)</i>	+	95100	<i>Physella sp</i>	+
11651	<i>Procloeon sp (w/o hindwing pads)</i>	+			
12200	<i>Isonychia sp</i>	+	No. Quantitative Taxa: 0		Total Taxa: 49
13000	<i>Leucrocuta sp</i>	+	No. Qualitative Taxa: 49		ICI:
13400	<i>Stenacron sp</i>	+	Number of Organisms: 0		Qual EPT: 16
13521	<i>Stenonema femoratum</i>	+			
13590	<i>Maccaffertium vicarium</i>	+			
17200	<i>Caenis sp</i>	+			
18700	<i>Hexagenia sp</i>	+			
21001	<i>Calopterygidae</i>	+			
23909	<i>Boyeria vinosa</i>	+			
47600	<i>Sialis sp</i>	+			
50315	<i>Chimarra obscura</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
52430	<i>Ceratopsyche morosa group</i>	+			
52530	<i>Hydropsyche depravata group</i>	+			
57900	<i>Pycnopsyche sp</i>	+			
67500	<i>Laccobius sp</i>	+			
68075	<i>Psephenus herricki</i>	+			
68130	<i>Helichus sp</i>	+			
68708	<i>Dubiraphia vittata group</i>	+			
69400	<i>Stenelmis sp</i>	+			
71100	<i>Hexatoma sp</i>	+			
71800	<i>Pseudolimnophila sp</i>	+			
72700	<i>Anopheles sp</i>	+			
74100	<i>Simulium sp</i>	+			
77120	<i>Ablabesmyia mallochi</i>	+			
77800	<i>Helopelopia sp</i>	+			
78655	<i>Procladius (Holotanypus) sp</i>	+			
81650	<i>Parametriocnemus sp</i>	+			
81825	<i>Rheocricotopus (Psilocricotopus) robacki</i>	+			
82820	<i>Cryptochironomus sp</i>	+			
82885	<i>Cryptotendipes pseudotener</i>	+			
83820	<i>Microtendipes "caelum" (sensu Simpson & Bode, 1980)</i>	+			
83840	<i>Microtendipes pedellus group</i>	+			
84210	<i>Paratendipes albimanus</i> or <i>P. duplicatus</i>	+			
84480	<i>Polypedilum (P.) laetum group</i>	+			
84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+			
84750	<i>Stictochironomus sp</i>	+			
85625	<i>Rheotanytarsus sp</i>	+			

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Rush Creek

Collection Date: 08/17/2009 River Code: 02-165 RM: 26.26

West Mansfield-Mt. Victory Rd.

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+	81825	<i>Rheocricotopus (Psilocricotopus) robacki</i>	14
03360	<i>Plumatella sp</i>	2	82121	<i>Thienemanniella lobapodema</i>	33
03600	<i>Oligochaeta</i>	+	82820	<i>Cryptochironomus sp</i>	14 +
08250	<i>Orconectes (Procericambarus) rusticus</i>	+	82885	<i>Cryptotendipes pseudotener</i>	+
08601	<i>Hydrachnidia</i>	+	83040	<i>Dicrotendipes neomodestus</i>	+
11020	<i>Acerpenna pygmaea</i>	5	83820	<i>Microtendipes "caelum" (sensu Simpson & Bode, 1980)</i>	115 +
11120	<i>Baetis flavistriga</i>	2 +	83840	<i>Microtendipes pedellus group</i>	101
11130	<i>Baetis intercalaris</i>	+	83900	<i>Nilothauma sp</i>	29
11650	<i>Procloeon sp (w/ hindwing pads)</i>	+	84210	<i>Paratendipes albimanus or P. duplicatus</i>	58
11651	<i>Procloeon sp (w/o hindwing pads)</i>	22 +	84300	<i>Phaenopsectra obediens group</i>	14 +
13400	<i>Stenacron sp</i>	162 +	84460	<i>Polypedilum (P.) fallax group</i>	115
13521	<i>Stenonema femoratum</i>	2 +	84540	<i>Polypedilum (Tripodura) scalaenum group</i>	58 +
13590	<i>Maccaffertium vicarium</i>	5	85201	<i>Cladotanytarsus species group A</i>	+
14950	<i>Leptophlebia sp or Paraleptophlebia sp</i>	22 +	85261	<i>Cladotanytarsus vanderwulpi group sp 1</i>	14
17200	<i>Caenis sp</i>	11 +	85500	<i>Paratanytarsus sp</i>	86
21200	<i>Calopteryx sp</i>	+	85625	<i>Rheotanytarsus sp</i>	417 +
22001	<i>Coenagrionidae</i>	+	85800	<i>Tanytarsus sp</i>	201 +
22300	<i>Argia sp</i>	52 +	85802	<i>Tanytarsus n. sp nr. curticornis</i>	14
23909	<i>Boyeria vinosa</i>	5 +	85821	<i>Tanytarsus glabrescens group sp 7</i>	158
24900	<i>Gomphus sp</i>	+	85840	<i>Tanytarsus sepp</i>	14
34130	<i>Acroneuria frisoni</i>	+	87540	<i>Hemerodromia sp</i>	31
44501	<i>Corixidae</i>	+	95100	<i>Physella sp</i>	2 +
50315	<i>Chimarra obscura</i>	+	96900	<i>Ferrissia sp</i>	63
51400	<i>Nyctiophylax sp</i>	+	98600	<i>Sphaerium sp</i>	+
52200	<i>Cheumatopsyche sp</i>	29 +	99860	<i>Lampsilis radiata luteola</i>	+
52430	<i>Ceratopsyche morosa group</i>	4 +			
53800	<i>Hydroptila sp</i>	+			
58505	<i>Helicopsyche borealis</i>	2	No. Quantitative Taxa: 39		Total Taxa: 69
59410	<i>Nectopsyche diarina</i>	+	No. Qualitative Taxa: 50		ICI: 48
59580	<i>Oecetis persimilis</i>	2 +	Number of Organisms: 2109		Qual EPT: 17
59720	<i>Trienodes ignitus</i>	+			
68075	<i>Psephenus herricki</i>	+			
68130	<i>Helichus sp</i>	1			
68601	<i>Ancyronyx variegata</i>	+			
68708	<i>Dubiraphia vittata group</i>	+			
68901	<i>Macronychus glabratus</i>	+			
69400	<i>Stenelmis sp</i>	+			
71100	<i>Hexatoma sp</i>	+			
72700	<i>Anopheles sp</i>	+			
77120	<i>Ablabesmyia mallochi</i>	+			
77500	<i>Conchapelopia sp</i>	86			
77800	<i>Helopelopia sp</i>	115 +			
78140	<i>Labrundinia pilosella</i>	29 +			
81060	<i>Lopescladius sp</i>	+			

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Rush Creek
Winnemar Rd.

Collection Date: 08/19/2009 River Code: 02-165 RM: 14.50

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+			
03600	<i>Oligochaeta</i>	+			
04685	<i>Placobdella ornata</i>	+			
05900	<i>Lirceus sp</i>	+			
06201	<i>Hyalella azteca</i>	+			
06700	<i>Crangonyx sp</i>	+			
08250	<i>Orconectes (Procericambarus) rusticus</i>	+			
11650	<i>Procloeon sp (w/ hindwing pads)</i>	+			
11651	<i>Procloeon sp (w/o hindwing pads)</i>	+			
13000	<i>Leucrocuta sp</i>	+			
13400	<i>Stenacron sp</i>	+			
13521	<i>Stenonema femoratum</i>	+			
14950	<i>Leptophlebia sp or Paraleptophlebia sp</i>	+			
17200	<i>Caenis sp</i>	+			
18700	<i>Hexagenia sp</i>	+			
21200	<i>Calopteryx sp</i>	+			
22001	<i>Coenagrionidae</i>	+			
23909	<i>Boyeria vinosa</i>	+			
45100	<i>Palmarcorixa sp</i>	+			
45300	<i>Sigara sp</i>	+			
65800	<i>Berosus sp</i>	+			
67800	<i>Tropisternus sp</i>	+			
68075	<i>Psephenus herricki</i>	+			
68601	<i>Ancyronyx variegata</i>	+			
68708	<i>Dubiraphia vittata group</i>	+			
69400	<i>Stenelmis sp</i>	+			
72700	<i>Anopheles sp</i>	+			
77120	<i>Ablabesmyia mallochi</i>	+			
78401	<i>Natarsia species A (sensu Roback, 1978)</i>	+			
82730	<i>Chironomus (C.) decorus group</i>	+			
82820	<i>Cryptochironomus sp</i>	+			
83840	<i>Microtendipes pedellus group</i>	+			
84210	<i>Paratendipes albimanus or P. duplicatus</i>	+			
84300	<i>Phaenopsectra obediens group</i>	+			
84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+			
84750	<i>Stictochironomus sp</i>	+			
86100	<i>Chrysops sp</i>	+			
98600	<i>Sphaerium sp</i>	+			

No. Quantitative Taxa: 0	Total Taxa: 38
No. Qualitative Taxa: 38	ICI:
Number of Organisms: 0	Qual EPT: 8

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Rush Creek
upst. St. Rt. 739

Collection Date: 08/18/2009 River Code: 02-165 RM: 8.80

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	130 +	84210	<i>Paratendipes albimanus</i> or <i>P. duplicatus</i>	856 +
03600	<i>Oligochaeta</i>	24 +	84300	<i>Phaenopsectra obediens</i> group	50
04964	<i>Mooreobdella microstoma</i>	+	84315	<i>Phaenopsectra flavipes</i>	17
05900	<i>Lirceus</i> sp	30 +	84450	<i>Polypedilum (Uresipedilum) flavum</i>	+
06700	<i>Crangonyx</i> sp	+	84460	<i>Polypedilum (P.) fallax</i> group	84
08250	<i>Orconectes (Procericambarus) rusticus</i>	+	84540	<i>Polypedilum (Tripodura) scalaenum</i> group	588 +
08601	<i>Hydrachnidia</i>	+	85201	<i>Cladotanytarsus species</i> group A	17
11001	<i>Baetidae</i>	+	85800	<i>Tanytarsus</i> sp	17
11020	<i>Acerpenna pygmaea</i>	+	95100	<i>Physella</i> sp	+
11120	<i>Baetis flavistriga</i>	+	96900	<i>Ferrissia</i> sp	1
11130	<i>Baetis intercalaris</i>	1 +	98200	<i>Pisidium</i> sp	+
11650	<i>Procloeon</i> sp (w/ hindwing pads)	1	98600	<i>Sphaerium</i> sp	2 +
13000	<i>Leucrocuta</i> sp	4			
13100	<i>Nixe</i> sp	+	No. Quantitative Taxa: 26		Total Taxa: 54
13400	<i>Stenacron</i> sp	38 +	No. Qualitative Taxa: 42		ICI: 26
13521	<i>Stenonema femoratum</i>	+	Number of Organisms: 2249		Qual EPT: 11
14950	<i>Leptophlebia</i> sp or <i>Paraleptophlebia</i> sp	5			
18700	<i>Hexagenia</i> sp	+			
21200	<i>Calopteryx</i> sp	+			
23909	<i>Boyeria vinosa</i>	+			
24900	<i>Gomphus</i> sp	+			
45300	<i>Sigara</i> sp	+			
47600	<i>Sialis</i> sp	+			
52200	<i>Cheumatopsyche</i> sp	4 +			
52530	<i>Hydropsyche depravata</i> group	+			
59300	<i>Mystacides</i> sp	+			
68130	<i>Helichus</i> sp	+			
68601	<i>Ancyronyx variegata</i>	1 +			
68708	<i>Dubiraphia vittata</i> group	3			
68901	<i>Macronychus glabratus</i>	16			
69400	<i>Stenelmis</i> sp	124 +			
74100	<i>Simulium</i> sp	+			
74501	<i>Ceratopogonidae</i>	+			
77120	<i>Ablabesmyia mallochi</i>	+			
77500	<i>Conchapelopia</i> sp	+			
77750	<i>Hayesomyia senata</i> or <i>Thienemannimyia norena</i>	17 +			
78655	<i>Procladius (Holotanypus)</i> sp	+			
81231	<i>Nanocladius (N.) crassicornus</i> or <i>N. (N.) "rectinervis"</i>	17			
82820	<i>Cryptochironomus</i> sp	+			
82885	<i>Cryptotendipes pseudotener</i>	+			
83820	<i>Microtendipes "caelum"</i> (sensu Simpson & Bode, 1980)	17 +			
83840	<i>Microtendipes pedellus</i> group	185 +			

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Rush Creek
Sanders Rd.

Collection Date: 08/18/2009 River Code: 02-165 RM: 7.55

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	86 +	83820	<i>Microtendipes "caelum" (sensu Simpson & Bode, 1980)</i>	7 +
03360	<i>Plumatella sp</i>	2 +	83840	<i>Microtendipes pedellus group</i>	336 +
03600	<i>Oligochaeta</i>	+	84210	<i>Paratendipes albimanus or P. duplicatus</i>	63
04964	<i>Mooreobdella microstoma</i>	+	84300	<i>Phaenopsectra obediens group</i>	21
05800	<i>Caecidotea sp</i>	+	84450	<i>Polypedilum (Uresipedilum) flavum</i>	14 +
06201	<i>Hyaella azteca</i>	+	84460	<i>Polypedilum (P.) fallax group</i>	70
06700	<i>Crangonyx sp</i>	1	84540	<i>Polypedilum (Tripodura) scalaenum group</i>	21 +
08250	<i>Orconectes (Procericambarus) rusticus</i>	+	84750	<i>Stictochironomus sp</i>	+
08601	<i>Hydrachnidia</i>	8 +	85500	<i>Paratanytarsus sp</i>	7
11020	<i>Acerpenna pygmaea</i>	+	85625	<i>Rheotanytarsus sp</i>	14
11120	<i>Baetis flavistriga</i>	+	85821	<i>Tanytarsus glabrescens group sp 7</i>	14 +
11130	<i>Baetis intercalaris</i>	+	95100	<i>Physella sp</i>	+
11651	<i>Proclotron sp (w/o hindwing pads)</i>	9 +	98600	<i>Sphaerium sp</i>	+
13400	<i>Stenacron sp</i>	449 +	99860	<i>Lampsilis radiata luteola</i>	+
14950	<i>Leptophlebia sp or Paraleptophlebia sp</i>	9 +			
18700	<i>Hexagenia sp</i>	+			
21200	<i>Calopteryx sp</i>	4 +	No. Quantitative Taxa: 29		Total Taxa: 58
22300	<i>Argia sp</i>	5 +	No. Qualitative Taxa: 45		ICI: 34
23909	<i>Boyeria vinosa</i>	+	Number of Organisms: 1311		Qual EPT: 10
43205	<i>Nepa apiculata</i>	+			
45300	<i>Sigara sp</i>	+			
45400	<i>Trichocorixa sp</i>	+			
47600	<i>Sialis sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	7 +			
52430	<i>Ceratopsyche morosa group</i>	+			
52530	<i>Hydropsyche depravata group</i>	+			
60900	<i>Peltodytes sp</i>	+			
65800	<i>Berosus sp</i>	+			
68075	<i>Psephenus herricki</i>	+			
68708	<i>Dubiraphia vittata group</i>	9 +			
68901	<i>Macronychus glabratus</i>	10			
69400	<i>Stenelmis sp</i>	5 +			
72700	<i>Anopheles sp</i>	+			
77115	<i>Ablabesmyia janta</i>	14			
77120	<i>Ablabesmyia mallochi</i>	35			
77500	<i>Conchapelopia sp</i>	+			
77750	<i>Hayesomyia senata or Thienemannimyia norena</i>	+			
78140	<i>Labrundinia pilosella</i>	14			
78655	<i>Procladius (Holotanypus) sp</i>	+			
79100	<i>Thienemannimyia group</i>	21			
80410	<i>Cricotopus (C.) sp</i>	14			
82820	<i>Cryptochironomus sp</i>	+			
83040	<i>Dicrotendipes neomodestus</i>	42			
83300	<i>Glyptotendipes (G.) sp</i>	+			

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Rush Creek

Collection Date: 08/19/2009 River Code: 02-165 RM: 5.39

Mt. Olive-Green Camp Rd.

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	13 +	78140	<i>Labrundinia pilosella</i>	50
03360	<i>Plumatella sp</i>	+	78401	<i>Natarsia species A (sensu Roback, 1978)</i>	+
05900	<i>Lirceus sp</i>	3 +	78450	<i>Nilotanypus fimbriatus</i>	12
06201	<i>Hyalella azteca</i>	1 +	78655	<i>Procladius (Holotanypus) sp</i>	+
06700	<i>Crangonyx sp</i>	4 +	82820	<i>Cryptochironomus sp</i>	+
08250	<i>Orconectes (Procericambarus) rusticus</i>	+	82885	<i>Cryptotendipes pseudotener</i>	+
11020	<i>Acerpenna pygmaea</i>	223 +	83300	<i>Glyptotendipes (G.) sp</i>	+
11130	<i>Baetis intercalaris</i>	+	83820	<i>Microtendipes "caelum" (sensu Simpson & Bode, 1980)</i>	3 +
11650	<i>Procloeon sp (w/ hindwing pads)</i>	7 +	83840	<i>Microtendipes pedellus group</i>	111
11651	<i>Procloeon sp (w/o hindwing pads)</i>	34 +	84155	<i>Paralauterborniella nigrohalteralis</i>	+
11670	<i>Procloeon viridoculare</i>	+	84450	<i>Polypedilum (Uresipedilum) flavum</i>	17
12200	<i>Isonychia sp</i>	1	84460	<i>Polypedilum (P.) fallax group</i>	17
13000	<i>Leucrocuta sp</i>	16 +	84540	<i>Polypedilum (Tripodura) scalaenum group</i>	6 +
13400	<i>Stenacron sp</i>	227 +	85201	<i>Cladotanytarsus species group A</i>	+
13521	<i>Stenonema femoratum</i>	+	85625	<i>Rheotanytarsus sp</i>	38
14950	<i>Leptophlebia sp or Paraleptophlebia sp</i>	24	85821	<i>Tanytarsus glabrescens group sp 7</i>	23
17200	<i>Caenis sp</i>	1	85840	<i>Tanytarsus sepp</i>	26
18700	<i>Hexagenia sp</i>	+	93900	<i>Elimia sp</i>	3 +
21200	<i>Calopteryx sp</i>	1 +	95100	<i>Physella sp</i>	+
22001	<i>Coenagrionidae</i>	+	96900	<i>Ferrissia sp</i>	1
22300	<i>Argia sp</i>	3	98200	<i>Pisidium sp</i>	+
23909	<i>Boyeria vinosa</i>	+	98600	<i>Sphaerium sp</i>	+
43300	<i>Ranatra sp</i>	+	99420	<i>Amblema plicata plicata</i>	+
45100	<i>Palmacorixa sp</i>	+	99860	<i>Lampsilis radiata luteola</i>	+
45400	<i>Trichocorixa sp</i>	+			
47600	<i>Sialis sp</i>	+			
50315	<i>Chimarra obscura</i>	+	No. Quantitative Taxa: 32		Total Taxa: 68
50804	<i>Lype diversa</i>	+	No. Qualitative Taxa: 54		ICI: 38
51400	<i>Nyctiophylax sp</i>	+	Number of Organisms: 991		Qual EPT: 14
52200	<i>Cheumatopsyche sp</i>	61 +			
59410	<i>Nectopsyche diarina</i>	+			
60400	<i>Gyrinus sp</i>	+			
63300	<i>Hydroporini</i>	+			
66200	<i>Cymbiodyta sp</i>	+			
68075	<i>Psephenus herricki</i>	+			
68300	<i>Cyphon sp</i>	+			
68708	<i>Dubiraphia vittata group</i>	+			
68901	<i>Macronychus glabratus</i>	11 +			
69400	<i>Stenelmis sp</i>	7 +			
72700	<i>Anopheles sp</i>	+			
74100	<i>Simulium sp</i>	1			
77120	<i>Ablabesmyia mallochi</i>	23 +			
77500	<i>Conchapelopia sp</i>	23 +			
77800	<i>Helopelopia sp</i>	+			

Ohio EPA/DSW Ecological Assessment Section Macroinvertebrate Collection

Site: Rush Creek

Collection Date: 08/19/2009 River Code: 02-165 RM: 0.55

Larue-Green Camp Rd.

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	46 +	83820	<i>Microtendipes "caelum" (sensu Simpson & Bode, 1980)</i>	56 +
03360	<i>Plumatella sp</i>	+			
03600	<i>Oligochaeta</i>	+	83840	<i>Microtendipes pedellus group</i>	266
05800	<i>Caecidotea sp</i>	1 +	84210	<i>Paratendipes albimanus</i> or <i>P. duplicatus</i>	126 +
05900	<i>Lirceus sp</i>	3 +	84450	<i>Polypedilum (Uresipedilum) flavum</i>	56
06201	<i>Hyaella azteca</i>	+	84460	<i>Polypedilum (P.) fallax group</i>	182
06700	<i>Crangonyx sp</i>	6 +	84540	<i>Polypedilum (Tripodura) scalaenum group</i>	168 +
08250	<i>Orconectes (Procericambarus) rusticus</i>	+	84651	<i>Kribiodorum perpulchrum</i>	14
08601	<i>Hydrachnidia</i>	8 +	85201	<i>Cladotanytarsus species group A</i>	14
11020	<i>Acerpenna pygmaea</i>	53 +	85625	<i>Rheotanytarsus sp</i>	42
11120	<i>Baetis flavistriga</i>	+	85821	<i>Tanytarsus glabrescens group sp 7</i>	98
11130	<i>Baetis intercalaris</i>	+	85840	<i>Tanytarsus sepp</i>	168
11650	<i>Procloeon sp (w/ hindwing pads)</i>	+	95100	<i>Physella sp</i>	+
11651	<i>Procloeon sp (w/o hindwing pads)</i>	22	96900	<i>Ferrissia sp</i>	8
12912	<i>Heptagenia diabasia</i>	1	98600	<i>Sphaerium sp</i>	+
13000	<i>Leucrocuta sp</i>	4	99160	<i>Anodontoides ferussacianus</i>	+
13400	<i>Stenacron sp</i>	137 +			
13521	<i>Stenonema femoratum</i>	2	No. Quantitative Taxa: 37		Total Taxa: 59
13570	<i>Maccaffertium terminatum</i>	5	No. Qualitative Taxa: 39		ICI: 28
14950	<i>Leptophlebia sp</i> or <i>Paraleptophlebia sp</i>	2	Number of Organisms: 1645		Qual EPT: 9
16700	<i>Tricorythodes sp</i>	1			
18700	<i>Hexagenia sp</i>	+			
22001	<i>Coenagrionidae</i>	+			
22300	<i>Argia sp</i>	11 +			
23501	<i>Aeshnidae</i>	+			
44501	<i>Corixidae</i>	1			
45300	<i>Sigara sp</i>	+			
45400	<i>Trichocorixa sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	26 +			
52430	<i>Ceratopsyche morosa group</i>	+			
59410	<i>Nectopsyche diarina</i>	1			
59500	<i>Oecetis sp</i>	+			
60300	<i>Dineutus sp</i>	1			
60900	<i>Peltodytes sp</i>	+			
68601	<i>Ancyronyx variegata</i>	+			
68708	<i>Dubiraphia vittata group</i>	1 +			
68901	<i>Macronychus glabratus</i>	1			
69400	<i>Stenelmis sp</i>	2 +			
72700	<i>Anopheles sp</i>	+			
77120	<i>Ablabesmyia mallochi</i>	84 +			
77500	<i>Conchapelopia sp</i>	14 +			
77750	<i>Hayesomyia senata</i> or <i>Thienemannimyia norena</i>	14 +			
82820	<i>Cryptochironomus sp</i>	+			
83040	<i>Dicrotendipes neomodestus</i>	+			

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: McDonald Creek
 Co. Rd. 240

Collection Date: 07/28/2009 River Code: 02-166 RM: 9.17

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
04664	<i>Helobdella stagnalis</i>	+			
04666	<i>Helobdella triserialis</i>	+			
04935	<i>Erpobdella punctata punctata</i>	+			
05900	<i>Lirceus sp</i>	+			
07880	<i>Cambarus (Tubericambarus) thomai</i>	+			
08601	<i>Hydrachnidia</i>	+			
11200	<i>Callibaetis sp</i>	+			
22001	<i>Coenagrionidae</i>	+			
22300	<i>Argia sp</i>	+			
23600	<i>Aeshna sp</i>	+			
23700	<i>Anax sp</i>	+			
45300	<i>Sigara sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
53800	<i>Hydroptila sp</i>	+			
65800	<i>Berosus sp</i>	+			
68300	<i>Cyphon sp</i>	+			
69400	<i>Stenelmis sp</i>	+			
78500	<i>Paramerina fragilis</i>	+			
78655	<i>Procladius (Holotanypus) sp</i>	+			
84210	<i>Paratendipes albimanus</i> or <i>P. duplicatus</i>	+			
85400	<i>Micropsectra sp</i>	+			
85821	<i>Tanytarsus glabrescens group sp 7</i>	+			
94400	<i>Fossaria sp</i>	+			
95100	<i>Physella sp</i>	+			
95907	<i>Gyraulus (Torquis) parvus</i>	+			
96120	<i>Menetus (Micromenetus) dilatatus</i>	+			

No. Quantitative Taxa: 0	Total Taxa: 26
No. Qualitative Taxa: 26	ICI:
Number of Organisms: 0	Qual EPT: 3

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: McDonald Creek
Co. Rd. 245

Collection Date: 07/28/2009 River Code: 02-166 RM: 6.82

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+			
03360	<i>Plumatella sp</i>	+			
03600	<i>Oligochaeta</i>	+			
17200	<i>Caenis sp</i>	+			
22001	<i>Coenagrionidae</i>	+			
23600	<i>Aeshna sp</i>	+			
28500	<i>Libellula sp</i>	+			
28955	<i>Plathemis lydia</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
60900	<i>Peltodytes sp</i>	+			
64050	<i>Liodessus sp</i>	+			
67800	<i>Tropisternus sp</i>	+			
69400	<i>Stenelmis sp</i>	+			
72700	<i>Anopheles sp</i>	+			
74501	<i>Ceratopogonidae</i>	+			
78655	<i>Procladius (Holotanypus) sp</i>	+			
79100	<i>Thienemannimyia group</i>	+			
80510	<i>Cricotopus (Isocladius) sylvestris group</i>	+			
82820	<i>Cryptochironomus sp</i>	+			
83040	<i>Dicrotendipes neomodestus</i>	+			
84470	<i>Polypedilum (P.) illinoense</i>	+			
84520	<i>Polypedilum (Tripodura) halterale group</i>	+			
84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+			
84790	<i>Tribelos fuscicorne</i>	+			
85500	<i>Paratanytarsus sp</i>	+			
85821	<i>Tanytarsus glabrescens group sp 7</i>	+			
98200	<i>Pisidium sp</i>	+			
99860	<i>Lampsilis radiata luteola</i>	+			

No. Quantitative Taxa: 0	Total Taxa: 28
No. Qualitative Taxa: 28	ICI:
Number of Organisms: 0	Qual EPT: 2

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: McDonald Creek
St. Rt. 37

Collection Date: 07/28/2009 River Code: 02-166 RM: 2.70

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+			
03600	<i>Oligochaeta</i>	+			
04935	<i>Erpobdella punctata punctata</i>	+			
05900	<i>Lirceus sp</i>	+			
08250	<i>Orconectes (Procericambarus) rusticus</i>	+			
08601	<i>Hydrachnidia</i>	+			
17200	<i>Caenis sp</i>	+			
22001	<i>Coenagrionidae</i>	+			
23600	<i>Aeshna sp</i>	+			
23909	<i>Boyeria vinosa</i>	+			
29020	<i>Sympetrum vicinum</i>	+			
45300	<i>Sigara sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
60900	<i>Peltodytes sp</i>	+			
68707	<i>Dubiraphia quadrinotata</i>	+			
68708	<i>Dubiraphia vittata group</i>	+			
69400	<i>Stenelmis sp</i>	+			
71900	<i>Tipula sp</i>	+			
77500	<i>Conchapelopia sp</i>	+			
82820	<i>Cryptochironomus sp</i>	+			
83002	<i>Dicrotendipes modestus</i>	+			
84520	<i>Polypedilum (Tripodura) halterale group</i>	+			
84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+			
84750	<i>Stictochironomus sp</i>	+			
95100	<i>Physella sp</i>	+			
98600	<i>Sphaerium sp</i>	+			

No. Quantitative Taxa: 0	Total Taxa: 26
No. Qualitative Taxa: 26	ICI:
Number of Organisms: 0	Qual EPT: 2

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Wildcat Creek
Twp. Rd. 217

Collection Date: 07/08/2009 River Code: 02-172 RM: 6.72

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+			
03040	<i>Fredericella sp</i>	+			
05900	<i>Lirceus sp</i>	+			
11120	<i>Baetis flavistriga</i>	+			
11130	<i>Baetis intercalaris</i>	+			
11200	<i>Callibaetis sp</i>	+			
13521	<i>Stenonema femoratum</i>	+			
22001	<i>Coenagrionidae</i>	+			
22300	<i>Argia sp</i>	+			
44501	<i>Corixidae</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
52530	<i>Hydropsyche depravata group</i>	+			
53800	<i>Hydroptila sp</i>	+			
65800	<i>Berosus sp</i>	+			
68708	<i>Dubiraphia vittata group</i>	+			
69400	<i>Stenelmis sp</i>	+			
72700	<i>Anopheles sp</i>	+			
77120	<i>Ablabesmyia mallochi</i>	+			
78101	<i>Labrundinia becki</i>	+			
82820	<i>Cryptochironomus sp</i>	+			
83002	<i>Dicrotendipes modestus</i>	+			
84210	<i>Paratendipes albimanus</i> or <i>P. duplicatus</i>	+			
84315	<i>Phaenopsectra flavipes</i>	+			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	+			
84470	<i>Polypedilum (P.) illinoense</i>	+			
84750	<i>Stictochironomus sp</i>	+			
85400	<i>Micropsectra sp</i>	+			
85500	<i>Paratanytarsus sp</i>	+			
85625	<i>Rheotanytarsus sp</i>	+			
87540	<i>Hemerodromia sp</i>	+			
95100	<i>Physella sp</i>	+			
95907	<i>Gyraulus (Torquis) parvus</i>	+			

No. Quantitative Taxa: 0	Total Taxa: 32
No. Qualitative Taxa: 32	ICI:
Number of Organisms: 0	Qual EPT: 7

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Wildcat Creek

Collection Date: 07/28/2009 River Code: 02-172 RM: 4.00

Twp. Rd. 245

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+	85800	<i>Tanytarsus sp</i>	+
03600	<i>Oligochaeta</i>	+	85818	<i>Tanytarsus glabrescens group sp 4</i>	+
05900	<i>Lirceus sp</i>	+	86100	<i>Chrysops sp</i>	+
08601	<i>Hydrachnidia</i>	+	87540	<i>Hemerodromia sp</i>	+
11120	<i>Baetis flavistriga</i>	+	95100	<i>Physella sp</i>	+
11130	<i>Baetis intercalaris</i>	+	98600	<i>Sphaerium sp</i>	+
11250	<i>Centroptilum sp (w/o hindwing pads)</i>	+	99100	<i>Pyganodon grandis</i>	+
13400	<i>Stenacron sp</i>	+			
21300	<i>Hetaerina sp</i>	+	No. Quantitative Taxa: 0		Total Taxa: 50
22001	<i>Coenagrionidae</i>	+	No. Qualitative Taxa: 50		ICI:
22300	<i>Argia sp</i>	+	Number of Organisms: 0		Qual EPT: 9
23909	<i>Boyeria vinosa</i>	+			
24900	<i>Gomphus sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
52530	<i>Hydropsyche depravata group</i>	+			
58505	<i>Helicopsyche borealis</i>	+			
59300	<i>Mystacides sp</i>	+			
59570	<i>Oecetis nocturna</i>	+			
61400	<i>Agabus sp</i>	+			
63300	<i>Hydroporini</i>	+			
65800	<i>Berosus sp</i>	+			
67500	<i>Laccobius sp</i>	+			
68601	<i>Ancyronyx variegata</i>	+			
68708	<i>Dubiraphia vittata group</i>	+			
69400	<i>Stenelmis sp</i>	+			
74501	<i>Ceratopogonidae</i>	+			
77500	<i>Conchapelopia sp</i>	+			
77750	<i>Hayesomyia senata</i> or <i>Thienemannimyia norena</i>	+			
77800	<i>Helopelopia sp</i>	+			
78140	<i>Labrundinia pilosella</i>	+			
78655	<i>Procladius (Holotanypus) sp</i>	+			
80420	<i>Cricotopus (C.) bicinctus</i>	+			
81825	<i>Rheocricotopus (Psilocricotopus) robacki</i>	+			
82820	<i>Cryptochironomus sp</i>	+			
82885	<i>Cryptotendipes pseudotener</i>	+			
83820	<i>Microtendipes "caelum" (sensu Simpson & Bode, 1980)</i>	+			
84210	<i>Paratendipes albimanus</i> or <i>P. duplicatus</i>	+			
84300	<i>Phaenopsectra obediens group</i>	+			
84470	<i>Polypedilum (P.) illinoense</i>	+			
84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+			
84800	<i>Tribelos jucundum</i>	+			
85201	<i>Cladotanytarsus species group A</i>	+			
85230	<i>Cladotanytarsus mancus group</i>	+			

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Wildcat Creek

Collection Date: 08/19/2009 River Code: 02-172 RM: 0.49

Co. Rd. 209 (LaRue-Kenton Rd.)

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	322 +	83840	<i>Microtendipes pedellus group</i>	142
03600	<i>Oligochaeta</i>	184 +	84210	<i>Paratendipes albimanus</i> or <i>P. duplicatus</i>	36 +
05900	<i>Lirceus sp</i>	+	84540	<i>Polypedilum (Tripodura) scalaenum group</i>	18 +
08250	<i>Orconectes (Procericambarus) rusticus</i>	+	84750	<i>Stictochironomus sp</i>	+
08601	<i>Hydrachnidia</i>	8 +	84790	<i>Tribelos fuscicorne</i>	18
11020	<i>Acerpenna pygmaea</i>	+	84960	<i>Pseudochironomus sp</i>	+
11120	<i>Baetis flavistriga</i>	5 +	85261	<i>Cladotanytarsus vanderwulpi group sp 1</i>	+
11130	<i>Baetis intercalaris</i>	53 +	85500	<i>Paratanytarsus sp</i>	267
11200	<i>Callibaetis sp</i>	2 +	85625	<i>Rheotanytarsus sp</i>	53
11651	<i>Procloeon sp (w/o hindwing pads)</i>	4	85720	<i>Stempellinella fimbriata</i>	18
13400	<i>Stenacron sp</i>	11 +	85802	<i>Tanytarsus n. sp nr. curticornis</i>	18
13570	<i>Maccaffertium terminatum</i>	1	85821	<i>Tanytarsus glabrescens group sp 7</i>	231
16700	<i>Tricorythodes sp</i>	1 +	87540	<i>Hemerodromia sp</i>	8
17200	<i>Caenis sp</i>	26 +	95100	<i>Physella sp</i>	168 +
22001	<i>Coenagrionidae</i>	2 +	99240	<i>Lasmigona complanata</i>	+
22300	<i>Argia sp</i>	13 +	99420	<i>Amblema plicata plicata</i>	+
23909	<i>Boyeria vinosa</i>	3	99860	<i>Lampsilis radiata luteola</i>	+
24900	<i>Gomphus sp</i>	+			
28001	<i>Libellulidae</i>	+	No. Quantitative Taxa: 43		Total Taxa: 60
43570	<i>Neoplea sp</i>	+	No. Qualitative Taxa: 40		ICI: 40
45400	<i>Trichocorixa sp</i>	+	Number of Organisms: 2624		Qual EPT: 10
52200	<i>Cheumatopsyche sp</i>	8 +			
52430	<i>Ceratopsyche morosa group</i>	2			
53800	<i>Hydroptila sp</i>	19 +			
59410	<i>Nectopsyche diarina</i>	2 +			
65800	<i>Berosus sp</i>	215 +			
66500	<i>Enochrus sp</i>	+			
67800	<i>Tropisternus sp</i>	1 +			
68601	<i>Ancyronyx variegata</i>	1			
68708	<i>Dubiraphia vittata group</i>	18 +			
68901	<i>Macronychus glabratus</i>	1			
69400	<i>Stenelmis sp</i>	+			
77120	<i>Ablabesmyia mallochi</i>	178 +			
77500	<i>Conchapelopia sp</i>	18			
77750	<i>Hayesomyia senata</i> or <i>Thienemannimyia norena</i>	71 +			
77800	<i>Helopelopia sp</i>	18			
78140	<i>Labrundinia pilosella</i>	36			
78655	<i>Procladius (Holotanypus) sp</i>	+			
80370	<i>Corynoneura lobata</i>	104			
82820	<i>Cryptochironomus sp</i>	+			
83003	<i>Dicrotendipes fumidus</i>	18			
83040	<i>Dicrotendipes neomodestus</i>	284			
83820	<i>Microtendipes "caelum" (sensu Simpson & Bode, 1980)</i>	18 +			

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Panther Creek

Collection Date: 07/28/2009 River Code: 02-175 RM: 8.91

Twp. Rd. 197

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+	98600	<i>Sphaerium sp</i>	+
04960	<i>Mooreobdella sp</i>	+			
05900	<i>Lirceus sp</i>	+	No. Quantitative Taxa: 0		Total Taxa: 45
06201	<i>Hyalella azteca</i>	+	No. Qualitative Taxa: 45		ICI:
08250	<i>Orconectes (Procericambarus) rusticus</i>	+	Number of Organisms: 0		Qual EPT: 11
08601	<i>Hydrachnidia</i>	+			
11001	<i>Baetidae</i>	+			
11120	<i>Baetis flavistriga</i>	+			
11130	<i>Baetis intercalaris</i>	+			
13400	<i>Stenacron sp</i>	+			
13521	<i>Stenonema femoratum</i>	+			
17200	<i>Caenis sp</i>	+			
21200	<i>Calopteryx sp</i>	+			
23600	<i>Aeshna sp</i>	+			
23909	<i>Boyeria vinosa</i>	+			
24900	<i>Gomphus sp</i>	+			
45100	<i>Palmacorixa sp</i>	+			
45300	<i>Sigara sp</i>	+			
47600	<i>Sialis sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
52430	<i>Ceratopsyche morosa group</i>	+			
52530	<i>Hydropsyche depravata group</i>	+			
58505	<i>Helicopsyche borealis</i>	+			
59310	<i>Mystacides sepulchralis</i>	+			
60900	<i>Peltodytes sp</i>	+			
68075	<i>Psephenus herricki</i>	+			
68702	<i>Dubiraphia bivittata</i>	+			
68708	<i>Dubiraphia vittata group</i>	+			
69225	<i>Optioservus fastiditus</i>	+			
69400	<i>Stenelmis sp</i>	+			
71900	<i>Tipula sp</i>	+			
77120	<i>Ablabesmyia mallochi</i>	+			
77800	<i>Helopelopia sp</i>	+			
81650	<i>Parametriocnemus sp</i>	+			
83840	<i>Microtendipes pedellus group</i>	+			
84210	<i>Paratendipes albimanus</i> or <i>P. duplicatus</i>	+			
84300	<i>Phaenopsectra obediens group</i>	+			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	+			
84460	<i>Polypedilum (P.) fallax group</i>	+			
84480	<i>Polypedilum (P.) laetum group</i>	+			
84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+			
84750	<i>Stictochironomus sp</i>	+			
86100	<i>Chrysops sp</i>	+			
95100	<i>Physella sp</i>	+			

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Panther Creek
St. Rt. 31

Collection Date: 07/28/2009 River Code: 02-175 RM: 7.80

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+			
03600	<i>Oligochaeta</i>	+			
05900	<i>Lirceus sp</i>	+			
06201	<i>Hyalella azteca</i>	+			
08250	<i>Orconectes (Procericambarus) rusticus</i>	+			
08601	<i>Hydrachnidia</i>	+			
11020	<i>Acerpenna pygmaea</i>	+			
11120	<i>Baetis flavistriga</i>	+			
11130	<i>Baetis intercalaris</i>	+			
11650	<i>Procloeon sp (w/ hindwing pads)</i>	+			
13000	<i>Leucrocuta sp</i>	+			
13400	<i>Stenacron sp</i>	+			
13521	<i>Stenonema femoratum</i>	+			
17200	<i>Caenis sp</i>	+			
45100	<i>Palmarcorixa sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
52430	<i>Ceratopsyche morosa group</i>	+			
52530	<i>Hydropsyche depravata group</i>	+			
53800	<i>Hydroptila sp</i>	+			
58505	<i>Helicopsyche borealis</i>	+			
60900	<i>Peltodytes sp</i>	+			
68075	<i>Psephenus herricki</i>	+			
69225	<i>Optioservus fastiditus</i>	+			
69400	<i>Stenelmis sp</i>	+			
74501	<i>Ceratopogonidae</i>	+			
77800	<i>Helopelopia sp</i>	+			
78655	<i>Procladius (Holotanypus) sp</i>	+			
82730	<i>Chironomus (C.) decorus group</i>	+			
82820	<i>Cryptochironomus sp</i>	+			
83840	<i>Microtendipes pedellus group</i>	+			
84210	<i>Paratendipes albimanus or P. duplicatus</i>	+			
84700	<i>Stenochironomus sp</i>	+			
84750	<i>Stictochironomus sp</i>	+			
85261	<i>Cladotanytarsus vanderwulpi group sp 1</i>	+			
85500	<i>Paratanytarsus sp</i>	+			
85800	<i>Tanytarsus sp</i>	+			
85821	<i>Tanytarsus glabrescens group sp 7</i>	+			
87540	<i>Hemerodromia sp</i>	+			
95100	<i>Physella sp</i>	+			
98600	<i>Sphaerium sp</i>	+			

No. Quantitative Taxa: 0	Total Taxa: 40
No. Qualitative Taxa: 40	ICI:
Number of Organisms: 0	Qual EPT: 13

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Panther Creek
Co. Rd. 219

Collection Date: 08/17/2009 River Code: 02-175 RM: 1.80

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+			
03600	<i>Oligochaeta</i>	+			
04935	<i>Erpobdella punctata punctata</i>	+			
05900	<i>Lirceus sp</i>	+			
08250	<i>Orconectes (Procericambarus) rusticus</i>	+			
13400	<i>Stenacron sp</i>	+			
13521	<i>Stenonema femoratum</i>	+			
17200	<i>Caenis sp</i>	+			
22001	<i>Coenagrionidae</i>	+			
23909	<i>Boyeria vinosa</i>	+			
27500	<i>Somatochlora sp</i>	+			
45100	<i>Palmacorixa sp</i>	+			
45300	<i>Sigara sp</i>	+			
59520	<i>Oecetis cinerascens</i>	+			
60300	<i>Dineutus sp</i>	+			
60900	<i>Peltodytes sp</i>	+			
65800	<i>Berosus sp</i>	+			
68708	<i>Dubiraphia vittata group</i>	+			
72420	<i>Chaoborus sp</i>	+			
78401	<i>Natarsia species A (sensu Roback, 1978)</i>	+			
78655	<i>Procladius (Holotanypus) sp</i>	+			
82730	<i>Chironomus (C.) decorus group</i>	+			
83300	<i>Glyptotendipes (G.) sp</i>	+			
83820	<i>Microtendipes "caelum" (sensu Simpson & Bode, 1980)</i>	+			
83840	<i>Microtendipes pedellus group</i>	+			
84750	<i>Stictochironomus sp</i>	+			
85500	<i>Paratanytarsus sp</i>	+			
85800	<i>Tanytarsus sp</i>	+			
89716	<i>Limnophora discreta</i>	+			
95100	<i>Physella sp</i>	+			
98600	<i>Sphaerium sp</i>	+			

No. Quantitative Taxa: 0	Total Taxa: 31
No. Qualitative Taxa: 31	ICI:
Number of Organisms: 0	Qual EPT: 4

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Wolf Creek
Twp. Rd. 199

Collection Date: 07/29/2009 River Code: 02-177 RM: 0.51

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+			
03600	<i>Oligochaeta</i>	+			
05900	<i>Lirceus sp</i>	+			
08601	<i>Hydrachnidia</i>	+			
11200	<i>Callibaetis sp</i>	+			
13521	<i>Stenonema femoratum</i>	+			
22001	<i>Coenagrionidae</i>	+			
45300	<i>Sigara sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
52430	<i>Ceratopsyche morosa group</i>	+			
60900	<i>Peltodytes sp</i>	+			
63300	<i>Hydroporini</i>	+			
67200	<i>Hydrochara sp</i>	+			
67800	<i>Tropisternus sp</i>	+			
72700	<i>Anopheles sp</i>	+			
72900	<i>Culex sp</i>	+			
77500	<i>Conchapelopia sp</i>	+			
78655	<i>Procladius (Holotanypus) sp</i>	+			
82730	<i>Chironomus (C.) decorus group</i>	+			
82820	<i>Cryptochironomus sp</i>	+			
83040	<i>Dicrotendipes neomodestus</i>	+			
83840	<i>Microtendipes pedellus group</i>	+			
84300	<i>Phaenopsectra obediens group</i>	+			
84470	<i>Polypedilum (P.) illinoense</i>	+			
84750	<i>Stictochironomus sp</i>	+			
85800	<i>Tanytarsus sp</i>	+			
86100	<i>Chrysops sp</i>	+			
95100	<i>Physella sp</i>	+			
96900	<i>Ferrissia sp</i>	+			
98600	<i>Sphaerium sp</i>	+			

No. Quantitative Taxa: 0	Total Taxa: 30
No. Qualitative Taxa: 30	ICI:
Number of Organisms: 0	Qual EPT: 4

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Taylor Creek

Collection Date: 08/18/2011 River Code: 02-181 RM: 0.76

St. Rt. 67

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	1 +	82820	<i>Cryptochironomus sp</i>	8
03600	<i>Oligochaeta</i>	19 +	82885	<i>Cryptotendipes pseudotener</i>	+
05900	<i>Lirceus sp</i>	5 +	83040	<i>Dicrotendipes neomodestus</i>	23
08250	<i>Orconectes (Procericambarus) rusticus</i>	+	83410	<i>Harnischia curtilamellata</i>	+
08601	<i>Hydrachnidia</i>	+	83840	<i>Microtendipes pedellus group</i>	8
11020	<i>Acerpenna pygmaea</i>	73 +	84040	<i>Parachironomus frequens</i>	+
11120	<i>Baetis flavistriga</i>	12 +	84210	<i>Paratendipes albimanus</i> or <i>P. duplicatus</i>	165
11130	<i>Baetis intercalaris</i>	45 +	84300	<i>Phaenopsectra obediens group</i>	8
11200	<i>Callibaetis sp</i>	+	84450	<i>Polypedilum (Uresipedilum) flavum</i>	8
11645	<i>Procloeon sp</i>	+	84460	<i>Polypedilum (P.) fallax group</i>	15
11670	<i>Procloeon viridoculare</i>	+	84470	<i>Polypedilum (P.) illinoense</i>	+
13000	<i>Leucrocuta sp</i>	1 +	84520	<i>Polypedilum (Tripodura) halterale group</i>	+
13400	<i>Stenacron sp</i>	280 +	84540	<i>Polypedilum (Tripodura) scalaenum group</i>	286
13521	<i>Stenonema femoratum</i>	8 +	85500	<i>Paratanytarsus sp</i>	8
13570	<i>Maccaffertium terminatum</i>	2 +	85800	<i>Tanytarsus sp</i>	+
17200	<i>Caenis sp</i>	18 +	85821	<i>Tanytarsus glabrescens group sp 7</i>	45
21200	<i>Calopteryx sp</i>	+	85840	<i>Tanytarsus sepp</i>	105
22001	<i>Coenagrionidae</i>	+	95100	<i>Physella sp</i>	+
22300	<i>Argia sp</i>	42 +	96900	<i>Ferrissia sp</i>	22
42700	<i>Belostoma sp</i>	+	97601	<i>Corbicula fluminea</i>	86
45900	<i>Notonecta sp</i>	+	98600	<i>Sphaerium sp</i>	10 +
47600	<i>Sialis sp</i>	+	99860	<i>Lampsilis radiata luteola</i>	+
50315	<i>Chimarra obscura</i>	+			
51600	<i>Polycentropus sp</i>	10 +	No. Quantitative Taxa: 42		Total Taxa: 65
52200	<i>Cheumatopsyche sp</i>	40 +	No. Qualitative Taxa: 44		ICI: 48
53800	<i>Hydroptila sp</i>	8	Number of Organisms: 1493		Qual EPT: 15
58505	<i>Helicopsyche borealis</i>	+			
61201	<i>Agabeta acuductus</i>	+			
65800	<i>Berosus sp</i>	1			
68601	<i>Ancyronyx variegata</i>	3 +			
68708	<i>Dubiraphia vittata group</i>	23 +			
68901	<i>Macronychus glabratus</i>	8 +			
69400	<i>Stenelmis sp</i>	4 +			
72700	<i>Anopheles sp</i>	+			
74100	<i>Simulium sp</i>	+			
77120	<i>Ablabesmyia mallochi</i>	30 +			
77750	<i>Hayesomyia senata</i> or <i>Thienemannimyia norena</i>	8			
77800	<i>Helopelopia sp</i>	8 +			
78140	<i>Labrundinia pilosella</i>	15			
78655	<i>Procladius (Holotanypus) sp</i>	8			
80370	<i>Corynoneura lobata</i>	8			
81231	<i>Nanocladius (N.) crassicornus</i> or <i>N. (N.) "rectinervis"</i>	8			
82121	<i>Thienemanniella lobapodema</i>	8			

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Taylor Creek

Collection Date: 08/17/2009 River Code: 02-181 RM: 4.43

Twp. Rd. 180

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	1 +	83840	<i>Microtendipes pedellus group</i>	453 +
03600	<i>Oligochaeta</i>	+	84210	<i>Paratendipes albimanus</i> or <i>P. duplicatus</i>	424
05900	<i>Lirceus sp</i>	+	84300	<i>Phaenopsectra obediens group</i>	146
08250	<i>Orconectes (Procericambarus) rusticus</i>	1 +	84315	<i>Phaenopsectra flavipes</i>	+
08601	<i>Hydrachnidia</i>	+	84450	<i>Polypedilum (Uresipedilum) flavum</i>	+
11018	<i>Acerpenna macdunnoughi</i>	+	84460	<i>Polypedilum (P.) fallax group</i>	248
11120	<i>Baetis flavistriga</i>	+	84480	<i>Polypedilum (P.) laetum group</i>	+
11130	<i>Baetis intercalaris</i>	+	84750	<i>Stictochironomus sp</i>	+
11651	<i>Procladius sp (w/o hindwing pads)</i>	3 +	85625	<i>Rheotanytarsus sp</i>	15
13400	<i>Stenacron sp</i>	39 +	85720	<i>Stempellinella fimbriata</i>	29
13521	<i>Stenonema femoratum</i>	17 +	85800	<i>Tanytarsus sp</i>	15
14950	<i>Leptophlebia sp</i> or <i>Paraleptophlebia sp</i>	8	85821	<i>Tanytarsus glabrescens group sp 7</i>	73
16700	<i>Tricorythodes sp</i>	1	85840	<i>Tanytarsus sepp</i>	15
17200	<i>Caenis sp</i>	32 +	86100	<i>Chrysops sp</i>	+
21200	<i>Calopteryx sp</i>	5 +	87540	<i>Hemerodromia sp</i>	8
22001	<i>Coenagrionidae</i>	+	95100	<i>Physella sp</i>	2 +
22300	<i>Argia sp</i>	1	96900	<i>Ferrissia sp</i>	3 +
30000	<i>Plecoptera</i>	8			
45100	<i>Palmarixia sp</i>	+	No. Quantitative Taxa: 30		Total Taxa: 61
45300	<i>Sigara sp</i>	+	No. Qualitative Taxa: 45		ICI: 26
47600	<i>Sialis sp</i>	+	Number of Organisms: 1915		Qual EPT: 13
50301	<i>Chimarra aterrima</i>	+			
50315	<i>Chimarra obscura</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
52430	<i>Ceratopsyche morosa group</i>	+			
52530	<i>Hydropsyche depravata group</i>	+			
58505	<i>Helicopsyche borealis</i>	+			
65800	<i>Berosus sp</i>	+			
68075	<i>Psephenus herricki</i>	+			
68707	<i>Dubiraphia quadrinotata</i>	+			
68708	<i>Dubiraphia vittata group</i>	1 +			
68901	<i>Macronychus glabratus</i>	+			
69225	<i>Optioservus fastiditus</i>	+			
69400	<i>Stenelmis sp</i>	+			
72340	<i>Dixella sp</i>	+			
72700	<i>Anopheles sp</i>	+			
77120	<i>Ablabesmyia mallochi</i>	29 +			
77800	<i>Helopelopia sp</i>	204 +			
78140	<i>Labrundinia pilosella</i>	24			
78655	<i>Procladius (Holotanypus) sp</i>	+			
80370	<i>Corynoneura lobata</i>	80			
81650	<i>Parametriocnemus sp</i>	15			
83040	<i>Dicrotendipes neomodestus</i>	+			
83820	<i>Microtendipes "caelum" (sensu Simpson & Bode, 1980)</i>	15 +			

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Taylor Creek

Collection Date: 07/29/2009 River Code: 02-181 RM: 0.76 A St. Rt. 67

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+			
03600	<i>Oligochaeta</i>	+			
04664	<i>Helobdella stagnalis</i>	+			
05900	<i>Lirceus sp</i>	+			
13400	<i>Stenacron sp</i>	+			
17200	<i>Caenis sp</i>	+			
22001	<i>Coenagrionidae</i>	+			
22300	<i>Argia sp</i>	+			
45300	<i>Sigara sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
52530	<i>Hydropsyche depravata group</i>	+			
53800	<i>Hydroptila sp</i>	+			
59500	<i>Oecetis sp</i>	+			
65800	<i>Berosus sp</i>	+			
68708	<i>Dubiraphia vittata group</i>	+			
68901	<i>Macronychus glabratus</i>	+			
71900	<i>Tipula sp</i>	+			
72700	<i>Anopheles sp</i>	+			
74100	<i>Simulium sp</i>	+			
77120	<i>Ablabesmyia mallochi</i>	+			
77500	<i>Conchapelopia sp</i>	+			
77800	<i>Helopelopia sp</i>	+			
78655	<i>Procladius (Holotanypus) sp</i>	+			
78702	<i>Psectrotanypus dyari</i>	+			
79020	<i>Tanypus neopunctipennis</i>	+			
80420	<i>Cricotopus (C.) bicinctus</i>	+			
80740	<i>Eukiefferiella claripennis group</i>	+			
81825	<i>Rheocricotopus (Psilocricotopus) robacki</i>	+			
82800	<i>Cladopelma sp</i>	+			
82820	<i>Cryptochironomus sp</i>	+			
82885	<i>Cryptotendipes pseudotener</i>	+			
83003	<i>Dicrotendipes fumidus</i>	+			
83040	<i>Dicrotendipes neomodestus</i>	+			
83840	<i>Microtendipes pedellus group</i>	+			
84210	<i>Paratendipes albimanus</i> or <i>P. duplicatus</i>	+			
84300	<i>Phaenopsectra obediens group</i>	+			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	+			
84470	<i>Polypedilum (P.) illinoense</i>	+			
85625	<i>Rheotanytarsus sp</i>	+			
85800	<i>Tanytarsus sp</i>	+			
95100	<i>Physella sp</i>	+			
98600	<i>Sphaerium sp</i>	+			

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Taylor Creek

Collection Date: 08/03/2009 River Code: 02-181 RM: 0.76 B St. Rt. 67

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+			
03600	<i>Oligochaeta</i>	+			
04664	<i>Helobdella stagnalis</i>	+			
59500	<i>Oecetis sp</i>	+			
63900	<i>Laccophilus sp</i>	+			
65800	<i>Berosus sp</i>	+			
72700	<i>Anopheles sp</i>	+			
77120	<i>Ablabesmyia mallochi</i>	+			
77500	<i>Conchapelopia sp</i>	+			
78655	<i>Procladius (Holotanytus) sp</i>	+			
80510	<i>Cricotopus (Isocladius) sylvestris group</i>	+			
83040	<i>Dicrotendipes neomodestus</i>	+			
84210	<i>Paratendipes albimanus</i> or <i>P. duplicatus</i>	+			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	+			
84470	<i>Polypedilum (P.) illinoense</i>	+			
84520	<i>Polypedilum (Tripodura) halterale group</i>	+			
84750	<i>Stictochironomus sp</i>	+			
85800	<i>Tanytarsus sp</i>	+			
86100	<i>Chrysops sp</i>	+			
95100	<i>Physella sp</i>	+			

No. Quantitative Taxa: 0	Total Taxa: 20
No. Qualitative Taxa: 20	ICI:
Number of Organisms: 0	Qual EPT: 1

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Taylor Creek

Collection Date: 10/19/2009 River Code: 02-181 RM: 0.76 C St. Rt. 67

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01320	<i>Hydra sp</i>	8	84315	<i>Phaenopsectra flavipes</i>	5
01801	<i>Turbellaria</i>	88 +	84450	<i>Polypedilum (Uresipedilum) flavum</i>	3 +
03360	<i>Plumatella sp</i>	1	84460	<i>Polypedilum (P.) fallax group</i>	10
03600	<i>Oligochaeta</i>	209 +	84540	<i>Polypedilum (Tripodura) scalaenum group</i>	2 +
04664	<i>Helobdella stagnalis</i>	+	85615	<i>Rheotanytarsus pellucidus</i>	2
05900	<i>Lirceus sp</i>	226 +	85625	<i>Rheotanytarsus sp</i>	5
08601	<i>Hydrachnidia</i>	2	85821	<i>Tanytarsus glabrescens group sp 7</i>	+
11120	<i>Baetis flavistriga</i>	+	86100	<i>Chrysops sp</i>	+
11130	<i>Baetis intercalaris</i>	+	87540	<i>Hemerodromia sp</i>	5
11200	<i>Callibaetis sp</i>	+	95100	<i>Physella sp</i>	6 +
13400	<i>Stenacron sp</i>	7 +	96002	<i>Helisoma anceps anceps</i>	14
13521	<i>Stenonema femoratum</i>	1 +	96900	<i>Ferrissia sp</i>	8
22001	<i>Coenagrionidae</i>	+	98200	<i>Pisidium sp</i>	6 +
22300	<i>Argia sp</i>	89 +	98600	<i>Sphaerium sp</i>	+
33501	<i>Capniidae</i>	+	99860	<i>Lampsilis radiata luteola</i>	+
45300	<i>Sigara sp</i>	+			
45400	<i>Trichocorixa sp</i>	+	No. Quantitative Taxa: 34		Total Taxa: 59
47600	<i>Sialis sp</i>	+	No. Qualitative Taxa: 38		ICI: 22
51600	<i>Polycentropus sp</i>	+	Number of Organisms: 806		Qual EPT: 9
52200	<i>Cheumatopsyche sp</i>	2 +			
55300	<i>Ptilostomis sp</i>	+			
59500	<i>Oecetis sp</i>	1			
60900	<i>Peltodytes sp</i>	+			
63900	<i>Laccophilus sp</i>	+			
65800	<i>Berosus sp</i>	10			
68901	<i>Macronychus glabratus</i>	1			
69400	<i>Stenelmis sp</i>	+			
70800	<i>Erioptera sp</i>	+			
71900	<i>Tipula sp</i>	+			
74501	<i>Ceratopogonidae</i>	+			
77120	<i>Ablabesmyia mallochi</i>	2			
77500	<i>Conchapelopia sp</i>	9			
77750	<i>Hayesomyia senata or Thienemannimyia norena</i>	31			
77800	<i>Helopelopia sp</i>	3			
78500	<i>Paramerina fragilis</i>	2 +			
78655	<i>Procladius (Holotanypus) sp</i>	+			
80370	<i>Corynoneura lobata</i>	36			
80420	<i>Cricotopus (C.) bicinctus</i>	+			
81201	<i>Nanocladius (N.) sp</i>	2			
81460	<i>Orthocladius (O.) sp</i>	5 +			
81650	<i>Parametriocnemus sp</i>	+			
82141	<i>Thienemanniella xena</i>	+			
83051	<i>Dicrotendipes simpsoni</i>	2			
83840	<i>Microtendipes pedellus group</i>	3			

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Silver Creek

Collection Date: 08/03/2009 River Code: 02-182 RM: 2.32

St. Rt. 67

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
03600	<i>Oligochaeta</i>	+			
04960	<i>Mooreobdella sp</i>	+			
05900	<i>Lirceus sp</i>	+			
08250	<i>Orconectes (Procericambarus) rusticus</i>	+			
08601	<i>Hydrachnidia</i>	+			
13521	<i>Stenonema femoratum</i>	+			
17200	<i>Caenis sp</i>	+			
23909	<i>Boyeria vinosa</i>	+			
27500	<i>Somatochlora sp</i>	+			
45300	<i>Sigara sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
60900	<i>Peltodytes sp</i>	+			
63300	<i>Hydroporini</i>	+			
66500	<i>Enochrus sp</i>	+			
68708	<i>Dubiraphia vittata group</i>	+			
69400	<i>Stenelmis sp</i>	+			
71900	<i>Tipula sp</i>	+			
77120	<i>Ablabesmyia mallochi</i>	+			
78655	<i>Procladius (Holotanypus) sp</i>	+			
81650	<i>Parametriocnemus sp</i>	+			
82730	<i>Chironomus (C.) decorus group</i>	+			
83820	<i>Microtendipes "caelum" (sensu Simpson & Bode, 1980)</i>	+			
83840	<i>Microtendipes pedellus group</i>	+			
84210	<i>Paratendipes albimanus or P. duplicatus</i>	+			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	+			
84470	<i>Polypedilum (P.) illinoense</i>	+			
84480	<i>Polypedilum (P.) laetum group</i>	+			
84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+			
84750	<i>Stictochironomus sp</i>	+			
84800	<i>Tribelos jucundum</i>	+			
85800	<i>Tanytarsus sp</i>	+			
95100	<i>Physella sp</i>	+			
96900	<i>Ferrissia sp</i>	+			

No. Quantitative Taxa: 0 Total Taxa: 33

No. Qualitative Taxa: 33 ICI:

Number of Organisms: 0 Qual EPT: 3

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: McCoy Run
Rogers Rd.

Collection Date: 08/04/2009 River Code: 02-186 RM: 0.55

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+			
03600	<i>Oligochaeta</i>	+			
04664	<i>Helobdella stagnalis</i>	+			
05900	<i>Lirceus sp</i>	+			
08250	<i>Orconectes (Procericambarus) rusticus</i>	+			
08601	<i>Hydrachnidia</i>	+			
11120	<i>Baetis flavistriga</i>	+			
13400	<i>Stenacron sp</i>	+			
17200	<i>Caenis sp</i>	+			
22001	<i>Coenagrionidae</i>	+			
22300	<i>Argia sp</i>	+			
30000	<i>Plecoptera</i>	+			
45100	<i>Palmarcorixa sp</i>	+			
51600	<i>Polycentropus sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
52530	<i>Hydropsyche depravata group</i>	+			
57400	<i>Neophylax sp</i>	+			
58505	<i>Helicopsyche borealis</i>	+			
60900	<i>Peltodytes sp</i>	+			
65800	<i>Berosus sp</i>	+			
68702	<i>Dubiraphia bivittata</i>	+			
68708	<i>Dubiraphia vittata group</i>	+			
69400	<i>Stenelmis sp</i>	+			
71900	<i>Tipula sp</i>	+			
74501	<i>Ceratopogonidae</i>	+			
77120	<i>Ablabesmyia mallochi</i>	+			
77500	<i>Conchapelopia sp</i>	+			
78130	<i>Labrundinia neopilosella</i>	+			
78655	<i>Procladius (Holotanypus) sp</i>	+			
82730	<i>Chironomus (C.) decorus group</i>	+			
82820	<i>Cryptochironomus sp</i>	+			
82880	<i>Cryptotendipes sp</i>	+			
83003	<i>Dicrotendipes fumidus</i>	+			
84210	<i>Paratendipes albimanus or P. duplicatus</i>	+			
84520	<i>Polypedilum (Tripodura) halterale group</i>	+			
84750	<i>Stictochironomus sp</i>	+			
85821	<i>Tanytarsus glabrescens group sp 7</i>	+			
85840	<i>Tanytarsus sepp</i>	+			
95100	<i>Physella sp</i>	+			
96002	<i>Helisoma anceps anceps</i>	+			
98600	<i>Sphaerium sp</i>	+			

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Cottonwood Ditch
adj. Twp. Rd. 100, dst. Alger

Collection Date: 08/03/2009 River Code: 02-188 RM: 4.10

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+			
03600	<i>Oligochaeta</i>	+			
04685	<i>Placobdella ornata</i>	+			
04960	<i>Mooreobdella sp</i>	+			
08250	<i>Orconectes (Procericambarus) rusticus</i>	+			
08601	<i>Hydrachnidia</i>	+			
11130	<i>Baetis intercalaris</i>	+			
11200	<i>Callibaetis sp</i>	+			
17200	<i>Caenis sp</i>	+			
18700	<i>Hexagenia sp</i>	+			
22001	<i>Coenagrionidae</i>	+			
27001	<i>Corduliidae</i>	+			
45100	<i>Palmacorixa sp</i>	+			
45300	<i>Sigara sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
52530	<i>Hydropsyche depravata group</i>	+			
63300	<i>Hydroporini</i>	+			
65800	<i>Berosus sp</i>	+			
68702	<i>Dubiraphia bivittata</i>	+			
74100	<i>Simulium sp</i>	+			
77355	<i>Clinotanypus pinguis</i>	+			
77500	<i>Conchapelopia sp</i>	+			
78655	<i>Procladius (Holotanypus) sp</i>	+			
79020	<i>Tanypus neopunctipennis</i>	+			
82730	<i>Chironomus (C.) decorus group</i>	+			
82820	<i>Cryptochironomus sp</i>	+			
83003	<i>Dicrotendipes fumidus</i>	+			
83820	<i>Microtendipes "caelum" (sensu Simpson & Bode, 1980)</i>	+			
84210	<i>Paratendipes albimanus</i> or <i>P. duplicatus</i>	+			
84470	<i>Polypedilum (P.) illinoense</i>	+			
85500	<i>Paratanytarsus sp</i>	+			
85800	<i>Tanytarsus sp</i>	+			
86100	<i>Chrysops sp</i>	+			
95100	<i>Physella sp</i>	+			
95907	<i>Gyraulus (Torquis) parvus</i>	+			
96264	<i>Planorbella (Pierosoma) pilsbryi</i>	+			
98600	<i>Sphaerium sp</i>	+			
99100	<i>Pyganodon grandis</i>	+			

No. Quantitative Taxa: 0	Total Taxa: 38
No. Qualitative Taxa: 38	ICI:
Number of Organisms: 0	Qual EPT: 6

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Cottonwood Ditch

Collection Date: 08/17/2009 River Code: 02-188 RM: 0.68

RR bridge dst. McGuffey

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01320	<i>Hydra sp</i>	16		<i>Bode, 1980)</i>	
01801	<i>Turbellaria</i>	481 +	84030	<i>Parachironomus directus</i>	29
01900	<i>Nemertea</i>	48	84210	<i>Paratendipes albimanus</i> or <i>P. duplicatus</i>	469 +
03360	<i>Plumatella sp</i>	3 +	84300	<i>Phaenopsectra obediens</i> group	59 +
03600	<i>Oligochaeta</i>	17 +	84450	<i>Polypedilum (Uresipedilum) flavum</i>	+
08601	<i>Hydrachnidia</i>	16 +	84460	<i>Polypedilum (P.) fallax</i> group	88
11130	<i>Baetis intercalaris</i>	+	84470	<i>Polypedilum (P.) illinoense</i>	+
13400	<i>Stenacron sp</i>	1 +	84540	<i>Polypedilum (Tripodura) scalaenum</i> group	176 +
17200	<i>Caenis sp</i>	2 +	85500	<i>Paratanytarsus sp</i>	29
21200	<i>Calopteryx sp</i>	1 +	85625	<i>Rheotanytarsus sp</i>	+
22001	<i>Coenagrionidae</i>	+	85800	<i>Tanytarsus sp</i>	29 +
22300	<i>Argia sp</i>	39 +	85821	<i>Tanytarsus glabrescens</i> group sp 7	59
45100	<i>Palmacorixa sp</i>	+	86100	<i>Chrysops sp</i>	16
45300	<i>Sigara sp</i>	+	95100	<i>Physella sp</i>	1 +
52200	<i>Cheumatopsyche sp</i>	3 +	96120	<i>Menetus (Micromenetus) dilatatus</i>	120
52430	<i>Ceratopsyche morosa</i> group	1 +	96900	<i>Ferrissia sp</i>	33
52530	<i>Hydropsyche depravata</i> group	+	97601	<i>Corbicula fluminea</i>	80 +
53800	<i>Hydroptila sp</i>	93 +	98200	<i>Pisidium sp</i>	34
59300	<i>Mystacides sp</i>	1	98600	<i>Sphaerium sp</i>	53 +
59500	<i>Oecetis sp</i>	17			
60900	<i>Peltodytes sp</i>	+	No. Quantitative Taxa: 42		Total Taxa: 62
65800	<i>Berosus sp</i>	305 +	No. Qualitative Taxa: 44		ICI: 32
67800	<i>Tropisternus sp</i>	+	Number of Organisms: 4082		Qual EPT: 7
68708	<i>Dubiraphia vittata</i> group	1			
69400	<i>Stenelmis sp</i>	253 +			
72700	<i>Anopheles sp</i>	+			
74100	<i>Simulium sp</i>	+			
74650	<i>Atrichopogon sp</i>	+			
77130	<i>Ablabesmyia rhamphe</i> group	+			
77355	<i>Clinotanytus pinguis</i>	+			
77500	<i>Conchapelopia sp</i>	153 +			
77750	<i>Hayesomyia senata</i> or <i>Thienemannimyia norena</i>	230			
77800	<i>Helopelopia sp</i>	115			
78100	<i>Labrundinia sp</i>	16			
78655	<i>Procladius (Holotanytus) sp</i>	+			
80420	<i>Cricotopus (C.) bicinctus</i>	29			
80430	<i>Cricotopus (C.) tremulus</i> group	+			
81270	<i>Nanocladius (N.) spiniplenus</i>	29 +			
81825	<i>Rheocricotopus (Psilocricotopus) robacki</i>	+			
82730	<i>Chironomus (C.) decorus</i> group	+			
82820	<i>Cryptochironomus sp</i>	+			
82885	<i>Cryptotendipes pseudotener</i>	88 +			
83040	<i>Dicrotendipes neomodestus</i>	234 +			
83820	<i>Microtendipes "caelum"</i> (sensu Simpson &	615			

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Dunlap Creek
 St. Rt. 195

Collection Date: 08/03/2009 River Code: 02-190 RM: 0.10

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
08601	<i>Hydrachnidia</i>	+			
11250	<i>Centroptilum sp (w/o hindwing pads)</i>	+			
13400	<i>Stenacron sp</i>	+			
17200	<i>Caenis sp</i>	+			
22001	<i>Coenagrionidae</i>	+			
22300	<i>Argia sp</i>	+			
42700	<i>Belostoma sp</i>	+			
45000	<i>Hesperocorixa sp</i>	+			
45400	<i>Trichocorixa sp</i>	+			
59500	<i>Oecetis sp</i>	+			
65800	<i>Berosus sp</i>	+			
68702	<i>Dubiraphia bivittata</i>	+			
68708	<i>Dubiraphia vittata group</i>	+			
68901	<i>Macronychus glabratus</i>	+			
74501	<i>Ceratopogonidae</i>	+			
77750	<i>Hayesomyia senata or Thienemannimyia norena</i>	+			
78130	<i>Labrundinia neopilosella</i>	+			
78200	<i>Larsia sp</i>	+			
78655	<i>Procladius (Holotanypus) sp</i>	+			
82885	<i>Cryptotendipes pseudotener</i>	+			
83040	<i>Dicrotendipes neomodestus</i>	+			
84210	<i>Paratendipes albimanus or P. duplicatus</i>	+			
95100	<i>Physella sp</i>	+			

No. Quantitative Taxa: 0 Total Taxa: 23

No. Qualitative Taxa: 23 ICI:

Number of Organisms: 0 Qual EPT: 4

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Wallace Fork
adj. gravel road

Collection Date: 07/21/2009 River Code: 02-193 RM: 0.20

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+			
03600	<i>Oligochaeta</i>	+			
04935	<i>Erpobdella punctata punctata</i>	+			
04960	<i>Mooreobdella sp</i>	+			
07800	<i>Cambarus sp</i>	+			
08601	<i>Hydrachnidia</i>	+			
11018	<i>Acerpenna macdunnoughi</i>	+			
11020	<i>Acerpenna pygmaea</i>	+			
17200	<i>Caenis sp</i>	+			
18700	<i>Hexagenia sp</i>	+			
22001	<i>Coenagrionidae</i>	+			
24900	<i>Gomphus sp</i>	+			
28955	<i>Plathemis lydia</i>	+			
45100	<i>Palmacorixa sp</i>	+			
45300	<i>Sigara sp</i>	+			
53800	<i>Hydroptila sp</i>	+			
58505	<i>Helicopsyche borealis</i>	+			
59310	<i>Mystacides sepulchralis</i>	+			
59570	<i>Oecetis nocturna</i>	+			
60900	<i>Peltodytes sp</i>	+			
63300	<i>Hydroporini</i>	+			
65800	<i>Berosus sp</i>	+			
68702	<i>Dubiraphia bivittata</i>	+			
68708	<i>Dubiraphia vittata group</i>	+			
74501	<i>Ceratopogonidae</i>	+			
77800	<i>Helopelopia sp</i>	+			
82820	<i>Cryptochironomus sp</i>	+			
82885	<i>Cryptotendipes pseudotener</i>	+			
83820	<i>Microtendipes "caelum" (sensu Simpson & Bode, 1980)</i>	+			
83840	<i>Microtendipes pedellus group</i>	+			
84210	<i>Paratendipes albimanus or P. duplicatus</i>	+			
87400	<i>Stratiomys sp</i>	+			
95100	<i>Physella sp</i>	+			
95907	<i>Gyraulus (Torquis) parvus</i>	+			
98600	<i>Sphaerium sp</i>	+			

No. Quantitative Taxa: 0	Total Taxa: 35
No. Qualitative Taxa: 35	ICI:
Number of Organisms: 0	Qual EPT: 8

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: North Rockswale Ditch
Holland Rd.

Collection Date: 07/27/2009 River Code: 02-237 RM: 0.55

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
03600	<i>Oligochaeta</i>	+			
04664	<i>Helobdella stagnalis</i>	+			
04935	<i>Erpobdella punctata punctata</i>	+			
04964	<i>Mooreobdella microstoma</i>	+			
08250	<i>Orconectes (Procericambarus) rusticus</i>	+			
08601	<i>Hydrachnidia</i>	+			
11120	<i>Baetis flavistriga</i>	+			
11200	<i>Callibaetis sp</i>	+			
17200	<i>Caenis sp</i>	+			
22001	<i>Coenagrionidae</i>	+			
42700	<i>Belostoma sp</i>	+			
45900	<i>Notonecta sp</i>	+			
72900	<i>Culex sp</i>	+			
77500	<i>Conchapelopia sp</i>	+			
77750	<i>Hayesomyia senata or Thienemannimyia norena</i>	+			
78655	<i>Procladius (Holotanypus) sp</i>	+			
80420	<i>Cricotopus (C.) bicinctus</i>	+			
80510	<i>Cricotopus (Isocladius) sylvestris group</i>	+			
82770	<i>Chironomus (C.) riparius group</i>	+			
85500	<i>Paratanytarsus sp</i>	+			
95100	<i>Physella sp</i>	+			
98600	<i>Sphaerium sp</i>	+			

No. Quantitative Taxa: 0	Total Taxa: 22
No. Qualitative Taxa: 22	ICI:
Number of Organisms: 0	Qual EPT: 3

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Elliot Run
Kinney Pike

Collection Date: 07/11/2011 River Code: 02-374 RM: 1.25

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
03600	<i>Oligochaeta</i>	+			
04935	<i>Erpobdella punctata punctata</i>	+			
04960	<i>Mooreobdella sp</i>	+			
05800	<i>Caecidotea sp</i>	+			
06201	<i>Hyalella azteca</i>	+			
06700	<i>Crangonyx sp</i>	+			
08250	<i>Orconectes (Procericambarus) rusticus</i>	+			
11020	<i>Acerpenna pygmaea</i>	+			
11200	<i>Callibaetis sp</i>	+			
11651	<i>Procladius sp (w/o hindwing pads)</i>	+			
13400	<i>Stenacron sp</i>	+			
13521	<i>Stenonema femoratum</i>	+			
17200	<i>Caenis sp</i>	+			
18700	<i>Hexagenia sp</i>	+			
22001	<i>Coenagrionidae</i>	+			
23600	<i>Aeshna sp</i>	+			
42700	<i>Belostoma sp</i>	+			
45300	<i>Sigara sp</i>	+			
45400	<i>Trichocorixa sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
53501	<i>Hydroptilidae</i>	+			
60800	<i>Haliplus sp</i>	+			
60900	<i>Peltodytes sp</i>	+			
62700	<i>Desmopachria sp</i>	+			
64800	<i>Uvarus sp</i>	+			
65700	<i>Anacaena sp</i>	+			
65800	<i>Berosus sp</i>	+			
67000	<i>Helophorus sp</i>	+			
68702	<i>Dubiraphia bivittata</i>	+			
68708	<i>Dubiraphia vittata group</i>	+			
69400	<i>Stenelmis sp</i>	+			
72340	<i>Dixella sp</i>	+			
72700	<i>Anopheles sp</i>	+			
74501	<i>Ceratopogonidae</i>	+			
77500	<i>Conchapelopia sp</i>	+			
78655	<i>Procladius (Holotanypus) sp</i>	+			
82885	<i>Cryptotendipes pseudotener</i>	+			
83002	<i>Dicrotendipes modestus</i>	+			
84470	<i>Polypedilum (P.) illinoense</i>	+			
85230	<i>Cladotanytarsus mancus group</i>	+			
85500	<i>Paratanytarsus sp</i>	+			
85800	<i>Tanytarsus sp</i>	+			
95100	<i>Physella sp</i>	+			
96264	<i>Planorbella (Pierosoma) pilsbryi</i>	+			

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Elliot Run
 Kinney Pike

Collection Date: 08/07/2009 River Code: 02-374 RM: 1.25

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
11200	<i>Callibaetis sp</i>	+			
13521	<i>Stenonema femoratum</i>	+			
17200	<i>Caenis sp</i>	+			
22001	<i>Coenagrionidae</i>	+			
23700	<i>Anax sp</i>	+			
27500	<i>Somatochlora sp</i>	+			
42700	<i>Belostoma sp</i>	+			
45000	<i>Hesperocorixa sp</i>	+			
45300	<i>Sigara sp</i>	+			
45400	<i>Trichocorixa sp</i>	+			
45900	<i>Notonecta sp</i>	+			
60800	<i>Halipus sp</i>	+			
60900	<i>Peltodytes sp</i>	+			
63300	<i>Hydroporini</i>	+			
63900	<i>Laccophilus sp</i>	+			
67800	<i>Tropisternus sp</i>	+			
68700	<i>Dubiraphia sp</i>	+			
72340	<i>Dixella sp</i>	+			
72700	<i>Anopheles sp</i>	+			
72900	<i>Culex sp</i>	+			
74501	<i>Ceratopogonidae</i>	+			
77500	<i>Conchapelopia sp</i>	+			
78500	<i>Paramerina fragilis</i>	+			
78655	<i>Procladius (Holotanypus) sp</i>	+			
80510	<i>Cricotopus (Isocladius) sylvestris group</i>	+			
84210	<i>Paratendipes albimanus or P. duplicatus</i>	+			
84470	<i>Polypedilum (P.) illinoense</i>	+			
85500	<i>Paratanytarsus sp</i>	+			
85840	<i>Tanytarsus sepp</i>	+			
87400	<i>Stratiomys sp</i>	+			
95100	<i>Physella sp</i>	+			
95907	<i>Gyraulus (Torquis) parvus</i>	+			
98600	<i>Sphaerium sp</i>	+			

No. Quantitative Taxa: 0	Total Taxa: 33
No. Qualitative Taxa: 33	ICI:
Number of Organisms: 0	Qual EPT: 3

Appendix E-1

**Notice to Users, Biosurvey Background information,
Mechanisms for Water Quality Impairment, and Methods**

NOTICE TO USERS

Ohio EPA incorporated biological criteria into the Ohio Water Quality Standards (WQS; Ohio Administrative Code 3745-1) regulations in February 1990 (effective May 1990). These criteria consist of numeric values for the Index of Biotic Integrity (IBI) and Modified Index of Well-Being (MIwb), both of which are based on fish assemblage data, and the Invertebrate Community Index (ICI), which is based on macroinvertebrate assemblage data. Criteria for each index are specified for each of Ohio's five ecoregions (as described by Omernik 1988), and are further organized by organism group, index, site type, and aquatic life use designation. These criteria, along with the existing chemical and whole effluent toxicity evaluation methods and criteria, figure prominently in the monitoring and assessment of Ohio's surface water resources.

The following documents support the use of biological criteria by outlining the rationale for using biological information, the methods by which the biocriteria were derived and calculated, the field methods by which sampling must be conducted, and the process for evaluating results:

Ohio Environmental Protection Agency. 1987a. Biological criteria for the protection of aquatic life: Volume I. The role of biological data in water quality assessment. Div. Water Qual. Monit. & Assess., Surface Water Section, Columbus, Ohio.

____ 1987b. Biological criteria for the protection of aquatic life: Volume II. Users manual for biological field assessment of Ohio surface waters. Div. Water Qual. Monit. & Assess., Surface Water Section, Columbus, Ohio.

____ 1989b. Addendum to Biological criteria for the protection of aquatic life: Volume II. Users manual for biological field assessment of Ohio surface waters. Div. Water Qual. Plan. & Assess., Ecological Assessment Section, Columbus, Ohio.

____ 1989c. Biological criteria for the protection of aquatic life: Volume III. Standardized biological field sampling and laboratory methods for assessing fish and macroinvertebrate communities. Div. Water Quality Plan. & Assess., Ecol. Assess. Sect., Columbus, Ohio.

____ 1990. The use of biological criteria in the Ohio EPA surface water monitoring and assessment program. Div. Water Qual. Plan. & Assess., Ecol. Assess. Sect., Columbus, Ohio.

____ 2008a. 2008 Updates to Biological criteria for the protection of aquatic life: Volume II and Volume II Addendum. Users manual for biological field assessment of Ohio surface waters. Div. of Surface Water, Ecol. Assess. Sect., Groveport, Ohio.

____ 2008b. 2008 Updates to Biological criteria for the protection of aquatic life: Volume III. Standardized biological field sampling and laboratory methods for assessing fish and macroinvertebrate communities. Div. of Surface Water, Ecol. Assess. Sect., Groveport, Ohio.

____ 2006a. Methods for assessing habitat in flowing waters: Using the Qualitative Habitat Evaluation Index (QHEI). Ohio EPA Tech. Bull. EAS/2006-06-1. Revised by the Midwest Biodiversity Institute for Div. of Surface Water, Ecol. Assess. Sect., Groveport, Ohio.

_____. 2006b. 2006 updates to Biological Criteria for the Protection of Aquatic Life: Volume III. Standardized biological field sampling and laboratory methods for assessing fish and macroinvertebrate communities. Div. of Surface Water, Ecol. Assess. Sect., Columbus, Ohio.

Rankin, E.T. 1989. The qualitative habitat evaluation index (QHEI): rationale, methods, and application. Div. Water Qual. Plan. & Assess., Ecol. Assess. Sect., Columbus, Ohio.

Since the publication of the preceding guidance documents, the following new publications by the Ohio EPA have become available. These publications should also be consulted as they represent the latest information and analyses used by the Ohio EPA to implement the biological criteria.

DeShon, J.D. 1995. Development and application of the invertebrate community index (ICI), pp. 217-243. in W.S. Davis and T. Simon (eds.). Biological Assessment and Criteria: Tools for Risk-based Planning and Decision Making. Lewis Publishers, Boca Raton, FL.

Rankin, E. T. 1995. The use of habitat assessments in water resource management programs, pp. 181-208. in W. Davis and T. Simon (eds.). Biological Assessment and Criteria: Tools for Water Resource Planning and Decision Making. Lewis Publishers, Boca Raton, FL.

Yoder, C.O. and E.T. Rankin. 1995a. Biological criteria program development and implementation in Ohio, pp. 109-144. in W. Davis and T. Simon (eds.). Biological Assessment and Criteria: Tools for Water Resource Planning and Decision Making. Lewis Publishers, Boca Raton, FL.

Yoder, C.O. and E.T. Rankin. 1995b. Biological response signatures and the area of degradation value: new tools for interpreting multimetric data, pp. 263-286. in W. Davis and T. Simon (eds.). Biological Assessment and Criteria: Tools for Water Resource Planning and Decision Making. Lewis Publishers, Boca Raton, FL.

Yoder, C.O. 1995c. Policy issues and management applications for biological criteria, pp. 327-344. in W. Davis and T. Simon (eds.). Biological Assessment and Criteria: Tools for Water Resource Planning and Decision Making. Lewis Publishers, Boca Raton, FL.

Yoder, C.O. and E.T. Rankin. 1995d. The role of biological criteria in water quality monitoring, assessment, and regulation. Environmental Regulation in Ohio: How to Cope With the Regulatory Jungle. Inst. of Business Law, Santa Monica, CA. 54 pp.

Yoder, C.O. and M.A. Smith. 1999. Using fish assemblages in a State biological assessment and criteria program: essential concepts and considerations, pp. 17-63. in

T. Simon (ed.). Assessing the Sustainability and Biological Integrity of Water Resources Using Fish Communities. CRC Press, Boca Raton, FL.

These documents and this report may be obtained by writing to:

Ohio EPA, Division of Surface Water

Ecological Assessment Section

4675 Homer Ohio Lane

Groveport, Ohio 43125

(614) 836-8777

ACKNOWLEDGMENTS

The following Ohio EPA staff are acknowledged for their contributions to this report:

Stream sampling: Jeff Lewis, Paul Vandermeer, Jack Freda, and Ben Rich

Data support: Dennis Mishne

Report preparation and analysis: Paul Vandermeer, Jeff Lewis, Jack Freda, and Ben Rich

Reviewers: Jeff DeShon, Jeff Lewis, and Jack Freda

This evaluation and report were possible only with the assistance of the study team, many full and part time field staff, and the chemistry analyses provided by the Ohio EPA Division of Environmental Services. Property owners who permitted access for sampling are also gratefully acknowledged for their cooperation.

FOREWORD

What is a Biological and Water Quality Survey?

A biological and water quality survey, or “biosurvey”, is an interdisciplinary monitoring effort coordinated on a waterbody specific or watershed scale. This effort may involve a relatively simple setting focusing on one or two small streams, one or two principal stressors, and a handful of sampling sites or a much more complex effort including entire drainage basins, multiple and overlapping stressors, and tens of sites. Each year the Ohio EPA conducts biosurveys in 4-5 watersheds study areas with an aggregate total of 250-300 sampling sites.

The Ohio EPA employs biological, chemical, and physical monitoring and assessment techniques in biosurveys in order to meet three major objectives: 1) determine the extent to which use designations assigned in the Ohio Water Quality Standards (WQS) are either attained or not attained; 2) determine if use designations assigned to a given water body are appropriate and attainable; and 3) determine if any changes in key ambient biological, chemical, or physical indicators have taken place over time, particularly before and after the implementation of point source pollution controls or best management practices. The data gathered by a biosurvey is processed, evaluated, and synthesized in a biological and water quality report. Each biological and water quality study contains a summary of major findings and recommendations for revisions to WQS, future monitoring needs, or other actions which may be needed to resolve existing impairment of designated uses. While the principal focus of a biosurvey is on the status of aquatic life uses, the status of other uses such as recreation and water supply, as well as human health concerns are also addressed.

The findings and conclusions of a biological and water quality study may factor into regulatory actions taken by the Ohio EPA (e.g., NPDES permits, Director’s Orders, the Ohio Water Quality Standards [OAC 3745-1], Water Quality Permit Support Documents [WQPSDs]), and are eventually incorporated into State Water Quality Management Plans, the Ohio Nonpoint Source Assessment, and the biennial Integrated Water Quality Monitoring and Assessment Report (305[b] and 303[d]).

Hierarchy of Indicators

A carefully conceived ambient monitoring approach, using cost-effective indicators consisting of ecological, chemical, and toxicological measures, can ensure that all relevant pollution sources are judged objectively on the basis of environmental results. Ohio EPA relies on a tiered approach in attempting to link the results of administrative activities with true environmental measures. This integrated approach includes a hierarchical continuum from administrative to true environmental indicators (Figure 1). The six “levels” of indicators include: 1) actions taken by regulatory agencies (permitting, enforcement, grants); 2) responses by the regulated community (treatment works, pollution prevention); 3) changes in discharged quantities (pollutant loadings); 4) changes in ambient conditions (water quality, habitat); 5) changes in uptake and/or assimilation (tissue contamination, biomarkers, wasteload allocation); and, 6) changes in health, ecology, or other effects (ecological condition, pathogens). In this process the results of administrative activities (levels 1 and 2) can be linked to efforts to improve water quality (levels 3, 4, and 5) which should translate into the environmental “results” (level 6). Thus, the aggregate effect of billions of dollars spent on water pollution control since the early 1970s can now be determined with quantifiable measures of environmental condition.

Superimposed on this hierarchy is the concept of stressor, exposure, and response indicators. *Stressor* indicators generally include activities which have the potential to degrade the aquatic environment such as pollutant discharges (permitted and unpermitted), land use effects, and habitat modifications. *Exposure* indicators are those which measure the effects of stressors and can include whole effluent toxicity tests, tissue residues, and biomarkers, each of which provides evidence of biological exposure to a stressor or bioaccumulative agent. *Response* indicators are generally composite measures of the cumulative effects of stress and exposure and include the more direct measures of community and population response that are represented here by the biological indices which comprise Ohio’s biological criteria. Other response indicators could include target assemblages, *i.e.*, rare, threatened, endangered, special status, and declining species or bacterial levels which serve as surrogates for the recreational uses. These indicators represent the essential technical elements for watershed-based management approaches. The key, however, is to use the different indicators *within* the roles which are most appropriate for each.

Describing the causes and sources associated with observed impairments revealed by the biological criteria and linking this with pollution sources involves an interpretation of multiple lines of evidence including water chemistry data, sediment data, habitat data,

effluent data, biomonitoring results, land use data, and biological response signatures within the biological data itself. Thus the assignment of principal causes and sources of impairment represents the association of impairments (defined by response indicators) with stressor and exposure indicators. The principal reporting venue for this process on a watershed or subbasin scale is a biological and water quality report. These reports then provide the foundation for aggregated assessments such as the Integrated Report, the Ohio Nonpoint Source Assessment, and other technical bulletins.

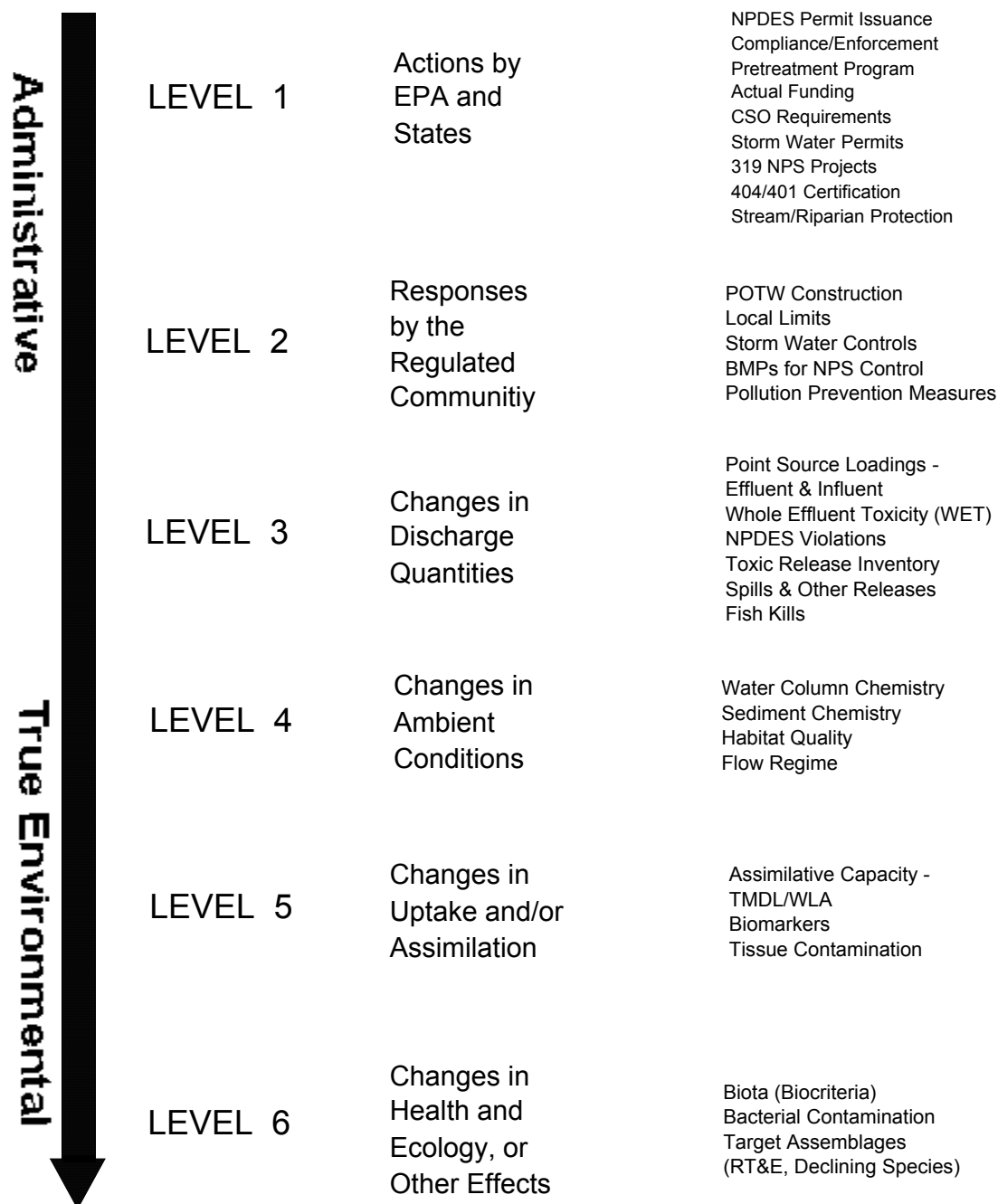


Figure 1. Hierarchy of administrative and environmental indicators which can be used for water quality management activities such as monitoring and assessment, reporting, and the evaluation of overall program effectiveness. This is patterned after a model developed by the U.S. EPA.

Ohio Water Quality Standards: Designated Aquatic Life Use

The Ohio Water Quality Standards (WQS; Ohio Administrative Code 3745-1) consist of designated uses and chemical, physical, and biological criteria designed to represent measurable properties of the environment that are consistent with the goals specified by each use designation. Use designations consist of two broad groups, aquatic life and non-aquatic life uses. In applications of the Ohio WQS to the management of water resource issues in Ohio's rivers and streams, the aquatic life use criteria frequently result in the most stringent protection and restoration requirements, hence their emphasis in biological and water quality reports. Also, an emphasis on protecting for aquatic life generally results in water quality suitable for all uses. The five different aquatic life uses currently defined in the Ohio WQS are described as follows:

1) *Warmwater Habitat (WWH)* - this use designation defines the "typical" warmwater assemblage of aquatic organisms for Ohio rivers and streams; *this use represents the principal restoration target for the majority of water resource management efforts in Ohio.*

2) *Exceptional Warmwater Habitat (EWH)* - this use designation is reserved for waters which support "unusual and exceptional" assemblages of aquatic organisms which are characterized by a high diversity of species, particularly those which are highly intolerant and/or rare, threatened, endangered, or special status (*i.e.*, declining species); *this designation represents a protection goal for water resource management efforts dealing with Ohio's best water resources.*

3) *Coldwater Habitat (CWH)* - this use is intended for waters which support assemblages of coldwater organisms and/or those which are stocked with salmonids with the intent of providing a put-and-take fishery on a year round basis which is further sanctioned by the Ohio DNR, Division of Wildlife; this use should not be confused with the Seasonal Salmonid Habitat (SSH) use which applies to the Lake Erie tributaries which support periodic "runs" of salmonids during the spring, summer, and/or fall.

4) *Modified Warmwater Habitat (MWH)* - this use applies to streams and rivers which have been subjected to extensive, maintained, and essentially permanent hydromodifications such that the biocriteria for the WWH use are not attainable *and where the activities have been sanctioned by state or federal law*; the representative

aquatic assemblages are generally composed of species which are tolerant to low dissolved oxygen, silt, nutrient enrichment, and poor quality habitat.

5) *Limited Resource Water (LRW)* - this use applies to small streams (usually <3 mi² drainage area) and other water courses which have been irretrievably altered to the extent that no appreciable assemblage of aquatic life can be supported; such waterways generally include small streams in extensively urbanized areas, those which lie in watersheds with extensive drainage modifications, those which completely lack water on a recurring annual basis (*i.e.*, true ephemeral streams), or other irretrievably altered waterways.

Chemical, physical, and/or biological criteria are generally assigned to each use designation in accordance with the broad goals defined by each. As such the system of use designations employed in the Ohio WQS constitutes a “tiered” approach in that varying and graduated levels of protection are provided by each. This hierarchy is especially apparent for parameters such as dissolved oxygen, ammonia-nitrogen, temperature, and the biological criteria. For other parameters such as heavy metals, the technology to construct an equally graduated set of criteria has been lacking, thus the same WQS criteria may apply to two or three different use designations.

Ohio Water Quality Standards: Non-Aquatic Life Uses

In addition to assessing the appropriateness and status of aquatic life uses, each biological and water quality survey also addresses non-aquatic life uses such as recreation, water supply, and human health concerns as appropriate. The recreation uses most applicable to rivers and streams are the Primary Contact Recreation (PCR) and Secondary Contact Recreation (SCR) uses. The criterion for designating the PCR use can be having a water depth of at least one meter over an area of at least 100 square feet or, lacking this, where frequent human contact is a reasonable expectation. If a water body does not meet either criterion, the SCR use applies. The attainment status of PCR and SCR is determined using bacterial indicators (*e.g.*, fecal coliform, *E. coli*) and the criteria for each are specified in the Ohio WQS.

Attainment of recreation uses are evaluated based on monitored bacteria levels. The Ohio Water Quality Standards state that all waters should be free from any public health nuisance associated with raw or poorly treated sewage (Administrative Code 3745-1-04,

Part F). Additional criteria (Administrative Code 3745-1-07) apply to waters that are designated as suitable for full body contact such as swimming (PCR) or for partial body contact such as wading (SCR). These standards were developed to protect human health, because even though fecal coliform bacteria are relatively harmless in most cases, their presence indicates that the water has been contaminated with fecal matter.

Water supply uses include Public Water Supply (PWS), Agricultural Water Supply (AWS), and Industrial Water Supply (IWS). Public Water Supplies are simply defined as segments within 500 yards of a potable water supply or food processing industry intake. The Agricultural Water Supply (AWS) and Industrial Water Supply (IWS) use designations generally apply to all waters unless it can be clearly shown that they are not applicable. An example of this would be an urban area where livestock watering or pasturing does not take place, thus the AWS use would not apply. Chemical criteria are specified in the Ohio WQS for each use and attainment status is based primarily on chemical-specific indicators. Human health concerns are additionally addressed with fish tissue data, but any consumption advisories are issued by the Ohio Department of Health.

MECHANISMS FOR WATER QUALITY IMPAIRMENT

The following paragraphs are provided to present the varied causes of impairment that affect the resource quality of lotic systems in Ohio. While the various perturbations are presented under separate headings, it is important to remember that they are often interrelated and cumulative in terms of the detrimental impact that can result.

Habitat and Flow Alterations

Habitat alteration, such as channelization, negatively impacts biological communities directly by limiting the complexity of living spaces available to aquatic organisms. Consequently, fish and macroinvertebrate communities are not as diverse. Indirect impacts include the removal of riparian trees and field tiling to facilitate drainage. Following a rain event, most of the water is quickly removed from tiled fields rather than filtering through the soil, recharging ground water, and reaching the stream at a lower volume and more sustained rate. As a result, small streams more frequently go dry or become intermittent. Urbanization impacts include removal of riparian trees, influx of

stormwater runoff, straightening and piping of stream channels, and riparian vegetation removal.

Tree shade is important because it limits the energy input from the sun, moderates water temperature, and limits evaporation. Removal of the tree canopy further degrades conditions because it eliminates an important source of coarse organic matter essential for a balanced ecosystem. Riparian vegetation aids in nutrient uptake, may decrease runoff rate into streams, and helps keep soil in place. Erosion impacts channelized streams more severely due to the lack of a riparian buffer zone to slow runoff, trap sediment and stabilize banks. Additionally, deep trapezoidal channels lack a functioning flood plain and therefore cannot expel sediment as would occur during flood events along natural watercourses. The confinement of flow within an artificially deep channel accelerates the movement of water downstream, exacerbating flooding of neighboring properties.

The lack of water movement under low flow conditions can exacerbate impacts from organic loading and nutrient enrichment by limiting re-aeration of the stream. The amount of oxygen soluble in water decreases as temperature increases. This is one reason why tree shade is so important. The two main sources of oxygen in water are diffusion from the atmosphere and plant photosynthesis. Turbulence at the water surface is critical because it increases surface area and promotes diffusion, but channelization eliminates turbulence produced by riffles, meanders, and debris snags. Plant photosynthesis produces oxygen, but at night, respiration reverses the process and consumes oxygen. Conversely, oxygen concentrations can become supersaturated during the day, due to abnormally high amounts of photosynthesis, causing gas bubble stress to both fish and invertebrate communities. Oxygen is also used by bacteria that decay dead organic matter. Nutrient enrichment can promote the growth of nuisance algae that subsequently dies and serves as food for bacteria. Under these conditions, oxygen can be depleted unless it is replenished from the air.

Siltation and Sedimentation

Whenever the natural flow regime is altered to facilitate drainage, increased amounts of sediment are likely to enter streams either by overland transport or increased bank erosion. The removal of wooded riparian areas furthers the erosion process. Channelization keeps all but the highest flow events confined within the artificially high banks. As a result, areas that were formerly flood plains and allowed for the removal of

sediment from the primary stream channel no longer serve this function. As water levels fall following a rain event, interstitial spaces between larger rocks fill with sand and silt and the diversity of available habitat to support fish and macroinvertebrates is reduced. Silt also can clog the gills of both fish and macroinvertebrates, reduce visibility thereby excluding site feeding fish species, and smother the nests of lithophilic fishes. Lithophilic spawning fish require clean substrates with interstitial voids in which to deposit eggs. Conversely, pioneering species benefit. They are generalists and best suited for exploiting disturbed and less heterogeneous habitats. The net result is a lower diversity of aquatic species compared with a typical warmwater stream with natural habitats.

Sediment also impacts water quality, recreation, and drinking water. Nutrients absorbed to soil particles remain trapped in the watercourse. Likewise, bacteria, pathogens, and pesticides which also attach to suspended or bedload sediments become concentrated in waterways where the channel is functionally isolated from the landscape. Community drinking water systems address these issues with more costly advanced treatment technologies.

Nutrient Enrichment

The element of greatest concern is phosphorus because it is critical for plant growth and is often the limiting nutrient. The form that can be readily used by plants and therefore can stimulate nuisance algae blooms is orthophosphate (PO_4^{-3}). The amount of phosphorus tied up in the nucleic acids of food and waste is actually quite low. This organic material is eventually converted to orthophosphate by bacteria. The amount of orthophosphate contained in synthetic detergents is a great concern however. It was for this reason that the General Assembly of the State of Ohio enacted a law in 1990 to limit phosphorus content in household laundry detergents sold in the Lake Erie drainage basin to 0.5% by weight. Inputs of phosphorus originate from both point and nonpoint sources. Most of the phosphorus discharged by point sources is soluble. Another characteristic of point sources is they have a continuous impact and are human in origin, for instance, effluents from municipal sewage treatment plants. The contribution from failed on-lot septic systems can also be significant, especially if they are concentrated in a small area. The phosphorus concentration in raw waste water is generally 8-10 mg/l and after secondary treatment is generally 4-6 mg/l. Further removal requires the added cost of chemical addition. The most common methods use the addition of lime or alum to form a precipitate, so most phosphorus (80%) ends up in the sludge.

A characteristic of phosphorus discharged by nonpoint sources is that the impact is intermittent and associated with storm water runoff. Most of this phosphorus is bound tightly to soil particles and enters streams from erosion, although some comes from tile drainage. Urban storm water is more of a concern if combined sewer overflows are involved. The impact from rural storm water varies depending on land use and management practices and includes contributions from livestock feedlots and pastures and row crop agriculture. Crop fertilizer includes granular inorganic types and organic types such as manure or sewage sludge. Pasture land is especially a concern if the livestock have access to the stream. Large feedlots with manure storage lagoons create the potential for overflows and accidental spills. Land management is an issue because erosion is worse on streams without any riparian buffer zone to trap runoff. The impact is worse in streams that are channelized because they no longer have a functioning flood plain and cannot expel sediment during flooding. Oxygen levels must also be considered, because phosphorus is released from sediment at higher rates under anoxic conditions.

There is no numerical phosphorus criterion established in the Ohio Water Quality Standards, but there is a narrative criterion that states phosphorus should be limited to the extent necessary to prevent nuisance growths of algae and weeds (Administrative Code, 3745-1-04, Part E). Phosphorus loadings from large volume point source dischargers in the Lake Erie drainage basin are regulated by NPDES permit limits. The permit limit is a concentration of 1.0 mg/l in final effluent. Research conducted by the Ohio EPA indicates that a significant correlation exists between phosphorus and the health of aquatic communities (Miltner and Rankin, 1998). It was concluded that biological community performance in headwater and wadeable streams was highest where phosphorus concentrations were lowest. It was also determined that the lowest phosphorus concentrations were associated with the highest quality habitats, supporting the notion that habitat is a critical component of stream function. The report recommends WWH biocriteria of 0.08 mg/l in headwater streams (<20 mi² watershed size), 0.10 mg/l in wadeable streams (>20-200 mi²) and 0.17 mg/l in small rivers (>200-1000 mi²).

Organic Enrichment and Low Dissolved Oxygen

The amount of oxygen soluble in water is low and it decreases as temperature increases. This is one reason why tree shade is so important. The two main sources of oxygen in water are diffusion from the atmosphere and plant photosynthesis. Turbulence at the water surface is critical because it increases surface area and promotes diffusion. Drainage practices such as channelization eliminate turbulence produced by riffles, meanders, and debris snags. Although plant photosynthesis produces oxygen by day, it is consumed by the reverse process of respiration at night. Oxygen is also consumed by bacteria that decay organic matter, so it can be easily depleted unless it is replenished from the air. Sources of organic matter include poorly treated waste water, sewage bypasses, and dead plants and algae. Dissolved oxygen criteria are established in the Ohio Water Quality Standards to protect aquatic life. The minimum and average limits are tiered values and linked to use designations (Administrative Code 3745-1-07, Table 7-1).

Ammonia

Ammonia enters streams as a component of fertilizer and manure run-off and wastewater effluent. Ammonia gas (NH_3) readily dissolves in water to form the compound ammonium hydroxide (NH_4OH). In aquatic ecosystems an equilibrium is established as ammonia shifts from a gas to undissociated ammonium hydroxide to the dissociated ammonium ion (NH_4^{+1}). Under normal conditions (neutral pH 7 and 25°C) almost none of the total ammonia is present as gas, only 0.55% is present as ammonium hydroxide, and the rest is ammonium ion. Alkaline pH shifts the equation toward gaseous ammonia production, so the amount of ammonium hydroxide increases. This is important because while the ammonium ion is almost harmless to aquatic life, ammonium hydroxide is very toxic and can reduce growth and reproduction or cause mortality.

The concentration of ammonia in raw sewage is high, sometimes as much as 20-30 mg/l. Treatment to remove ammonia involves gaseous stripping to the atmosphere, biological nitrification and de-nitrification, and assimilation into plant and animal biomass. The nitrification process requires a long detention time and aerobic conditions like that provided in extended aeration treatment plants. Under these conditions, bacteria first convert ammonia to nitrite (*Nitrosomonas*) and then to nitrate (*Nitrobacter*).

Nitrate can then be reduced by the de-nitrification process (*Pseudomonas*) and nitrogen gas and carbon dioxide are produced as by-products.

Ammonia criteria are established in the Ohio Water Quality Standards to protect aquatic life. The maximum and average limits are tiered values based on sample pH and temperature and linked to use designations (Administrative Code 3745-1-07, Tables 7-2 through 7-8).

Metals

Metals can be toxic to aquatic life and hazardous to human health. Although they are naturally occurring elements many are extensively used in manufacturing and are byproducts of human activity. Certain metals like copper and zinc are essential in the human diet, but excessive levels are usually detrimental. Lead and mercury are of particular concern because they often trigger fish consumption advisories. Mercury is used in the production of chlorine gas and caustic soda and in the manufacture of batteries and fluorescent light bulbs. In the environment it forms inorganic salts, but bacteria convert these to methyl-mercury and this organic form builds up in the tissues of fish. Extended exposure can damage the brain, kidneys, and developing fetus. The Ohio Department of Health (ODH) issued a statewide fish consumption advisory in 1997 advising women of child bearing age and children six and under not to eat more than one meal per week of any species of fish from waters of the state because of mercury. Lead is used in batteries, pipes, and paints and is emitted from burning fossil fuels. It affects the central nervous system and damages the kidneys and reproductive system. Copper is mined extensively and used to manufacture wire, sheet metal, and pipes. Ingesting large amounts can cause liver and kidney damage. Zinc is a by-product of mining, steel production, and coal burning and used in alloys such as brass and bronze. Ingesting large amounts can cause stomach cramps, nausea, and vomiting.

Metals criteria are established in the Ohio Water Quality Standards to protect human health, wildlife, and aquatic life. Three levels of aquatic life standards are established (Administrative Code 3745-1-07, Table 7-1) and limits for some elements are based on water hardness (Administrative Code 3745-1-07, Table 7-9). Human health and wildlife standards are linked to either the Lake Erie (Administrative Code 3745-1-33, Table 33-2) or Ohio River (Administrative Code 3745-1-34, Table 34-1) drainage basins. The drainage basins also have limits for additional elements not established elsewhere that are identified as Tier I and Tier II values.

Bacteria

High concentrations of either fecal coliform bacteria or *Escherichia coli* (*E. coli*) in a lake or stream may indicate contamination with human pathogens. People can be exposed to contaminated water while wading, swimming, and fishing. Fecal coliform bacteria are relatively harmless in most cases, but their presence indicates that the water has been contaminated with feces from a warm-blooded animal. Although intestinal organisms

eventually die off outside the body, some will remain virulent for a period of time and may be dangerous sources of infection. This is especially a problem if the feces contained pathogens or disease producing bacteria and viruses. Reactions to exposure can range from an isolated illness such as skin rash, sore throat, or ear infection to a more serious wide spread epidemic. Some types of bacteria that are a concern include *Escherichia*, which cause diarrhea and urinary tract infections, *Salmonella*, which cause typhoid fever and gastroenteritis (food poisoning), and *Shigella*, which cause severe gastroenteritis or bacterial dysentery. Some types of viruses that are a concern include polio, hepatitis A, and encephalitis. Disease causing microorganisms such as cryptosporidium and giardia are also a concern.

Since fecal coliform bacteria are associated with warm-blooded animals, there are both human and animal sources. Human sources, including effluent from sewage treatment plants or discharges by on-lot septic systems, are a more continuous problem. Bacterial contamination from combined sewer overflows are associated with wet weather events. Animal sources are usually more intermittent and are also associated with rainfall, except when domestic livestock have access to the water. Large livestock farms store manure in holding lagoons and this creates the potential for an accidental spill. Liquid manure applied as fertilizer is a runoff problem if not managed properly and it sometimes seeps into field tiles.

Bacteria criteria for the recreational use are established in the Ohio Water Quality Standards to protect human health. The maximum and average limits are tiered values and linked to use designation, but only apply during the May 1-October 15 recreation season (Administrative Code 3745-1-07, Table 7-13). The standards also state that streams must be free of any public health nuisance associated with raw or poorly treated sewage during dry weather conditions (Administrative Code 3745-1-04, Part F).

Sediment Contamination

Chemical quality of sediment is a concern because many pollutants bind strongly to soil particles and are persistent in the environment. Some of these compounds accumulate in the aquatic food chain and trigger fish consumption advisories, but others are simply a contact hazard because they cause skin cancer and tumors. The physical and chemical nature of sediment is determined by local geology, land use, and contribution from manmade sources. As some materials enter the water column they are attracted to the surface electrical charges associated with suspended silt and clay particles.

Others simply sink to the bottom due to their high specific gravity. Sediment layers form as suspended particles settle, accumulate, and combine with other organic and inorganic materials. Sediment is the most physically, chemically, and biologically reactive at the water interface because this is where it is affected by sunlight, current, wave action, and benthic organisms. Assessment of the chemical nature of this layer can be used to predict ecological impact.

The Ohio EPA evaluation of sediment chemistry results are evaluated using a dual approach, first by ranking relative concentrations based on a system developed by Ohio EPA (2005) and then by determining the potential for toxicity based on guidelines developed by MacDonald et al (2000). The Ohio EPA system was derived from samples collected at ecoregional reference sites. Specific Reference Values are site specific ecoregional based metals concentrations and are used to identify contaminated stream reaches. The MacDonald guidelines are consensus based using previously developed values. The system predicts that sediments below the threshold effect concentration (TEC) are absent of toxicity and those greater than the probable effect concentration (PEC) are toxic.

Sediment samples collected by the Ohio EPA are measured for a number of physical and chemical properties. Physical attributes included % particle size distribution (sand $\geq 60 \mu$, silt 5-59 μ , clay $\leq 4 \mu$), % solids, and % organic carbon. Most locations sampled had an abundance of sediment, and no difficulties were experienced in locating ample volumes of sediment for analysis. Fine grained sediments are deposited in flood plains of natural streams during periods of high flow. This scenario changes if the stream is impounded by a dam or channelized.

Chemical attributes included metals, volatile and semi-volatile organic compounds, pesticides, and poly-chlorinated biphenyls (PCBs).

MATERIALS and METHODS

All physical, chemical, and biological field, laboratory, data processing, and data analysis methodologies and procedures adhere to those specified in the Manual of Ohio EPA Surveillance Methods and Quality Assurance Practices (Ohio Environmental Protection Agency 1989a) and Biological Criteria for the Protection of Aquatic Life, Volumes I-III (Ohio Environmental Protection Agency 1987a, 1987b, 1989b, 1989c, 2006, 2008a, 2008b), The Qualitative Habitat Evaluation Index (QHEI): Rationale,

Methods, and Application (Rankin 1989 and 1995) for aquatic habitat assessment, and the Ohio EPA Sediment Sampling Guide and Methodologies (Ohio EPA 2001). Sampling locations are listed in Table 1.

Determining Use Attainment Status

Use attainment status is a term describing the degree to which environmental indicators are either above or below criteria specified by the Ohio Water Quality Standards (WQS; Ohio Administrative Code 3745-1). Assessing aquatic use attainment status involves a primary reliance on the Ohio EPA biological criteria (OAC 3745-1-07; Table 7-15). These are confined to ambient assessments and apply to rivers and streams outside of mixing zones. Numerical biological criteria are based on multimetric biological indices including the IBI and MIwb, indices measuring the response of the fish community, and the ICI, which indicates the response of the macroinvertebrate community. Three attainment status results are possible at each sampling location - full, partial, or non-attainment. Full attainment means that all of the applicable indices meet the biocriteria. Partial attainment means that one or more of the applicable indices fails to meet the biocriteria. Non-attainment means that none of the applicable indices meet the biocriteria or one of the organism groups reflects poor or very poor performance. An aquatic life use attainment table (Table 2) is constructed based on the sampling results and is arranged from upstream to downstream and includes the sampling locations indicated by river mile, the applicable biological indices, the use attainment status (*i.e.*, full, partial, or non), the Qualitative Habitat Evaluation Index (QHEI), and a sampling location description.

Habitat Assessment

Physical habitat was evaluated using the QHEI developed by the Ohio EPA for streams and rivers in Ohio (Rankin 1989 and 1995). Various attributes of the habitat are scored based on the overall importance of each to the maintenance of viable, diverse, and functional aquatic faunas. The type(s) and quality of substrates, amount and quality of instream cover, channel morphology, extent and quality of riparian vegetation, pool, run, and riffle development and quality, and gradient are some of the habitat characteristics used to determine the QHEI score which generally ranges from 20 to less than 100. The QHEI is used to evaluate the characteristics of a stream segment, as opposed to the characteristics of a single sampling site. As such, individual sites may have poorer physical habitat due to a localized disturbance yet still support aquatic communities closely resembling those sampled at adjacent sites with better habitat, provided water quality conditions are similar. QHEI scores from hundreds of segments around the state have indicated that values greater than 60 are *generally* conducive to the existence of warmwater faunas whereas scores less than 45 generally cannot support a warmwater assemblage consistent with the WWH biological criteria. Scores greater than 75 frequently reflect habitat conditions which have the ability to support exceptional warmwater faunas.

Sediment and Surface Water Assessment

Fine grain sediment samples were collected in the upper 4 inches of bottom material at each location using decontaminated stainless steel scoops and excavated using nitrile

gloves. Decontamination of sediment sampling equipment followed the procedures outlined in the Ohio EPA sediment sampling guidance manual (Ohio EPA 2001). Sediment grab samples were homogenized in stainless steel pans (material for VOC analysis was not homogenized), transferred into glass jars with teflon® lined lids, placed on ice (to maintain 4°C) in a cooler, and shipped to Ohio EPA Division of Environmental Services. Sediment data is reported on a dry weight basis. Surface water samples were collected, preserved and delivered in appropriate containers to Ohio EPA Division of Environmental Services. Surface water samples were evaluated using comparisons to Ohio Water Quality Standards criteria, reference conditions, or published literature. Sediment evaluations were conducted using guidelines established in MacDonald et al. (2000) and Ohio Specific Reference Values (2003).

Recreation Use Assessment

Recreation use attainment was determined using the criteria established in OAC 3745-1-41:

- 1) *E. coli* is the only indicator organism used to evaluate recreation.
- 2) The recreation season extends from May 1 – Oct. 31.
- 3) Geometric mean content is computed on a seasonal basis.
- 4) Geometric mean content is the sole basis of use attainment status when 2 or more samples are taken.
- 5) Primary Contact Recreation (PCR) includes three separate categories each with specific numerical criteria: Class A – high use paddling streams, Class B – most typical streams and Class C – historically channelized streams that drain < 3.1 mi².

Macroinvertebrate Community Assessment

Macroinvertebrates were collected from artificial substrates and from the natural habitats. The artificial substrate collection provided quantitative data and consisted of a composite sample of five modified Hester-Dendy multiple-plate samplers colonized for six weeks. At the time of the artificial substrate collection, a qualitative multihabitat composite sample was also collected. This sampling effort consisted of an inventory of all observed macroinvertebrate taxa from the natural habitats at each site with no attempt to quantify populations other than notations on the predominance of specific taxa or taxa groups within major macrohabitat types (e.g., riffle, run, pool, margin). Detailed discussion of macroinvertebrate field and laboratory procedures is contained in Biological Criteria for the Protection of Aquatic Life: Volume III, Standardized Biological Field Sampling and Laboratory Methods for Assessing Fish and Macroinvertebrate Communities (Ohio EPA 1989b, 2008b).

Fish Community Assessment

Fish were sampled using pulsed DC electrofishing methods. Fish were processed in the field, and included identifying each individual to species, counting, weighing, and recording any external abnormalities. Discussion of the fish community assessment methodology used in this report is contained in Biological Criteria for the Protection of Aquatic Life: Volume III, Standardized Biological Field Sampling and Laboratory

Methods for Assessing Fish and Macroinvertebrate Communities (Ohio EPA 1989b, 2008b).

Causal Associations

Using the results, conclusions, and recommendations of this report requires an understanding of the methodology used to determine the use attainment status and assigning probable causes and sources of impairment. The identification of impairment in rivers and streams is straightforward - the numerical biological criteria are used to judge aquatic life use attainment and impairment (partial and non-attainment). The rationale for using the biological criteria, within a weight of evidence framework, has been extensively discussed elsewhere (Karr *et al.* 1986; Karr 1991; Ohio EPA 1987a,b; Yoder 1989; Miner and Borton 1991; Yoder 1991; Yoder 1995). Describing the causes and sources associated with observed impairments relies on an interpretation of multiple lines of evidence including water chemistry data, sediment data, habitat data, effluent data, land use data, and biological results (Yoder and Rankin 1995a, 1995b, and 1995c). Thus the assignment of principal causes and sources of impairment in this report represent the association of impairments (based on response indicators) with stressor and exposure indicators. The reliability of the identification of probable causes and sources is increased where many such prior associations have been identified, or have been experimentally or statistically linked together. The ultimate measure of success in water resource management is the restoration of lost or damaged ecosystem attributes including aquatic community structure and function. While there have been criticisms of misapplying the metaphor of ecosystem “health” compared to human patient “health” (Suter 1993), in this document we are referring to the process for evaluating biological integrity and causes or sources associated with observed impairments, not whether human health and ecosystem health are analogous concepts.

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Mechanisms for Water Quality Impairment

The following paragraphs describe the various causes of impairment that were encountered during the Swan Creek and Lower Maumee River tributary study. While these perturbations are presented under separate headings, it is important to remember that they are often interrelated and cumulative in terms of the detrimental impact that can result.

Habitat and Flow Alterations

Habitat alteration, such as channelization, negatively impacts biological communities by limiting the complexity of living spaces available to aquatic organisms. Consequently, fish and macroinvertebrate communities are not as diverse. Indirect impacts include agricultural activities such as the removal of trees and shrubs adjacent to streams (described throughout this report as riparian vegetation) and field tiling to facilitate drainage. Urbanization impacts include removal of riparian trees, influx of stormwater run off, straightening and piping of stream channels, and riparian vegetation removal. Following a rain event, most of the water is quickly removed from tiled fields or urban settings rather than filtering through the soil, vegetation, recharging groundwater, and reaching the stream at a lower volume and more sustained rate. As a result, small streams more frequently go dry or become intermittent.

Tree shade is important because it limits the energy input from the sun, moderates water temperature, and limits evaporation. Removal of the tree canopy further degrades conditions because it eliminates an important source of coarse organic matter essential for a balanced ecosystem. Riparian vegetation aids in nutrient uptake, may decrease run-off rate into streams, and helps keep soil in place. Erosion impacts channelized streams more severely due to the lack of a riparian buffer to slow runoff, trap sediment and stabilize banks. Deep trapezoidal channels lack a functioning flood plain and therefore cannot expel sediment as would occur during flood events along natural watercourses. Additionally, the confinement of flow within an artificially deep channel accelerates the movement of water downstream, exacerbating flooding of neighboring properties.

The lack of water movement under low flow conditions can exacerbate degradation from organic loading and nutrient enrichment by limiting aeration of the stream. The amount of oxygen soluble in water decreases as temperature increases. This is one reason why tree shade is so important. The two main sources of oxygen in water are diffusion from the atmosphere and plant photosynthesis. Turbulence at the water surface is critical because it increases surface area and promotes diffusion, but channelization eliminates turbulence produced by riffles, meanders, and debris snags. Plant photosynthesis produces oxygen, but at night, respiration reverses the process and consumes oxygen. Conversely, oxygen concentrations can become supersaturated during the day, due to abnormally high amounts of photosynthesis, causing gas bubble stress to both fish and invertebrate communities. Oxygen is also used by bacteria that consume dead organic matter. Nutrient enrichment promotes the growth of nuisance algae that subsequently dies and serves as food for bacteria. Under these conditions, oxygen can be depleted unless it is replenished from the air.

Siltation and Sedimentation

Whenever the natural flow regime is altered to facilitate drainage, increased amounts of sediment are likely to enter streams either by overland transport or increased bank erosion. The removal of vegetated and wooded riparian areas furthers the erosion process. Channelization keeps all but the highest flow events confined within the artificially high banks. As a result, areas that were formerly flood plains and facilitated the removal of sediment from the primary stream channel no longer serve this function. As water levels fall following a rain event, interstitial spaces between larger rocks fill with sand and silt and the diversity of available habitat to support fish and macroinvertebrates is reduced. Silt also can clog the gills of both fish and macroinvertebrates, reduce visibility thereby excluding obligate site feeding fish species, and smother the nests of lithophilic fishes. Lithophilic spawning fish require clean substrates with interstitial voids in which to deposit eggs. Conversely, pioneering species benefit. They are generalists and best suited for exploiting disturbed and less heterogeneous habitats. The net result is a lower diversity of aquatic species compared with a typical warmwater stream with natural habitats.

Sediment also impacts water quality, recreation, and drinking water. Nutrients absorbed to soil particles remain trapped in the watercourse. Likewise, bacteria, pathogens, and pesticides which also attach to suspended or bedload sediments become concentrated in waterways where the channel is functionally isolated from the landscape.

Nutrient Enrichment

The element of greatest concern is phosphorus because it is critical for plant growth and is often the limiting nutrient. The form that can be readily used by plants and therefore can stimulate nuisance algae blooms is orthophosphate (PO_4^{3-}). The amount of phosphorus tied up in the nucleic acids of food and waste is actually quite low. This organic material is eventually converted to orthophosphate by bacteria. The amount of orthophosphate contained in synthetic detergents is a great concern however. It was for this reason that the General Assembly of the State of Ohio enacted a law in 1990 to limit phosphorus content in household laundry detergents sold in the Lake Erie drainage basin to 0.5 % by weight. Inputs of phosphorus originate from both point and nonpoint sources. Most of the phosphorus discharged by point sources is soluble. Another characteristic of point sources is they have a continuous impact and are human in origin, for instance, effluents from municipal sewage treatment plants. The contribution from failed on-site wastewater treatment systems can also be significant, especially if they are concentrated in a small area. Line graphs for phosphorus (Fig. 7) and *E. coli* (Fig. 6) samples taken in Swan Creek closely mimic one another for the middle and lower stretches of the stream. The phosphorus concentration in raw waste water is generally 8-10 mg/l and after secondary treatment is generally 4-6 mg/l. Further removal requires the added cost of chemical addition. The most common methods use the addition of lime or alum to form a precipitate, so most phosphorus (80%) ends up in the sludge.

A characteristic of phosphorus discharged by nonpoint sources is that the impact is intermittent and is most often associated with stormwater runoff. Most of this phosphorus is bound tightly to soil particles and enters streams from erosion, although some comes from tile drainage. Phosphorus input from urban stormwater is more of a concern if combined sewer overflows are involved. Phosphorus load from rural stormwater varies depending on land use and management practices and includes contributions from livestock feedlots and pastures and row crop

agriculture. Crop fertilizer includes granular inorganic types and organic types such as manure or sewage sludge. Pasture land is especially a concern if the livestock have access to the stream. Large feedlots with manure storage lagoons create the potential for overflows and accidental spills. Land management is an issue because erosion is worse on streams without any riparian buffer zone to trap runoff. The impact is worse in streams that are channelized because they no longer have a functioning flood plain and cannot expel sediment during flooding. Oxygen levels must also be considered, because phosphorus is released from sediment at higher rates under anoxic conditions.

There is no numerical phosphorus criterion established in the Ohio Water Quality Standards, but there is a narrative criterion that states phosphorus should be limited to the extent necessary to prevent nuisance growths of algae and weeds (Administrative Code, 3745-1-04, Part E). Phosphorus loadings from large volume point source dischargers in the Lake Erie drainage basin are regulated by the National Pollutant Discharge Elimination System (NPDES). The permit limit is a concentration of 1.0 mg/l in final effluent. Research conducted by the Ohio EPA indicates that a significant correlation exists between phosphorus and the health of aquatic communities (Miltner and Rankin, 1998). It was concluded that biological community performance in headwater and Wadeable streams was highest where phosphorus concentrations were lowest. It was also determined that the lowest phosphorus concentrations were associated with the highest quality habitats, supporting the notion that habitat is a critical component of stream function. The report recommends WWH criteria of 0.08 mg/l in headwater streams (<20 mi² watershed size), 0.10 mg/l in Wadeable streams (>20-200 mi²) and 0.17 mg/l in small rivers (>200-1000 mi²).

Organic Enrichment and Low Dissolved Oxygen

The amount of oxygen soluble in water is low and it decreases as temperature increases. This is one reason why tree shade is so important. The two main sources of oxygen in water are diffusion from the atmosphere and plant photosynthesis. Turbulence at the water surface is critical because it increases surface area and promotes diffusion. Drainage practices such as channelization eliminate turbulence produced by riffles, meanders, and debris snags. Although plant photosynthesis produces oxygen by day, it is consumed by the reverse process of respiration at night. Oxygen is also consumed by bacteria that decay organic matter, so it can be easily depleted unless it is replenished from the air. Sources of organic matter include poorly treated waste water, livestock waste, sewage bypasses, and dead plants and algae. Dissolved oxygen criteria are established in the Ohio Water Quality Standards to protect aquatic life. The minimum and average limits are tiered values and linked to use designations (Administrative Code 3745-1-07, Table 7-1).

Ammonia

Ammonia enters streams as a component of fertilizer and manure run-off and wastewater effluent. Ammonia gas (NH_3) readily dissolves in water to form the compound ammonium hydroxide (NH_4OH). In aquatic ecosystems an equilibrium is established as ammonia shifts from a gas to undissociated ammonium hydroxide to the dissociated ammonium ion (NH_4^{+1}). Under normal conditions (neutral pH 7 and 25°C) almost none of the total ammonia is present as gas, only 0.55% is present as ammonium hydroxide, and the rest is ammonium ion. Alkaline pH shifts the equation toward gaseous ammonia production, so the amount of ammonium hydroxide increases. This is important because while the ammonium ion is almost harmless to aquatic life, ammonium hydroxide is very toxic and can reduce growth and reproduction or cause mortality.

The concentration of ammonia in raw sewage is high, sometimes as much as 20-30 mg/l. Treatment to remove ammonia involves gaseous stripping to the atmosphere, biological nitrification and de-nitrification, and assimilation into plant and animal biomass. The nitrification process requires a long detention time and aerobic conditions like that provided in extended aeration wastewater treatment plants. Under these conditions, bacteria first convert ammonia to nitrite and then to nitrate. Nitrate can then be reduced by bacteria through the de-nitrification process and nitrogen gas and carbon dioxide are produced as by-products.

Ammonia criteria are established in the Ohio Water Quality Standards to protect aquatic life. The maximum and average limits are tiered values based on sample pH and temperature and linked to use designations (Administrative Code 3745-1-07, Tables 7-2 through 7-8).

Metals

Metals can be toxic to aquatic life and hazardous to human health. Although they are naturally occurring elements many are extensively used in manufacturing and are by-products of human activity. Certain metals like copper and zinc are essential in the human diet, but excessive levels are usually detrimental. Lead and mercury are of particular concern because they often trigger fish consumption advisories. Mercury is used in the production of chlorine gas and caustic soda and in the manufacture of batteries and fluorescent light bulbs. In the environment it forms inorganic salts, but bacteria convert these to methyl-mercury and this organic form builds up in the tissues of fish. Extended exposure can damage the brain, kidneys, and developing fetus. The Ohio Department of Health (ODH) issued a statewide fish consumption advisory in 1997 advising women of child bearing age and children six and under not to eat more than one meal per week of any species of fish from waters of the state because of mercury. Lead is used in batteries, pipes, and paints and is emitted from burning fossil fuels. It affects the central nervous system and damages the kidneys and reproductive system. Copper is mined extensively and used to manufacture wire, sheet metal, and pipes. Ingesting large amounts can cause liver and kidney damage. Zinc is a by-product of mining, steel production, and coal burning and used in alloys such as brass and bronze. Ingesting large amounts can cause stomach cramps, nausea, and vomiting.

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Chemical quality of sediment is a concern because many pollutants bind strongly to soil particles and are persistent in the environment. Some of these compounds accumulate in the aquatic food chain and trigger fish consumption advisories, but others are simply a contact hazard because they can cause skin irritation, skin cancer and tumors. The physical and chemical nature of sediment is determined by local geology, land use, and contribution from manmade sources. As some materials enter the water column they are attracted to the surface electrical charges associated with suspended silt and clay particles. Others simply sink to the bottom due to their high specific gravity. Sediment layers form as suspended particles settle, accumulate, and combine with other organic and inorganic materials. Sediment is the most physically, chemically, and biologically reactive at the water interface because this is where it is affected by sunlight, current, wave action, and benthic organisms. Assessment of the chemical nature of this layer can be used to predict ecological impact.

Sediment chemistry results are evaluated by Ohio EPA using a dual approach, first by ranking relative concentrations based on a system developed by Ohio EPA (1996) and then by determining the potential for toxicity based on guidelines developed by MacDonald et al (2000). The Ohio EPA system was derived from samples collected at ecoregional reference sites. Classes are grouped in ranges that are based on the median analytical value (non-elevated) plus 1 (slightly elevated), 2 (elevated), 4 (highly elevated), and 8 (extremely elevated) inter-quartile values. The MacDonald guidelines are consensus based using previously developed values. The system predicts that sediments below the threshold effect concentration (TEC) are absent of toxicity and those greater than the probable effect concentration (PEC) are toxic.

Sediment samples collected by the Ohio EPA are measured for a number of physical and chemical properties. Physical attributes included % particle size distribution (sand $\geq 60 \mu$, silt 5-59 μ , clay $\leq 4 \mu$), % solids, and % organic carbon. Due to the dynamics of flowing water, most natural streams in Central Ohio do not contain a lot of fine grained sediment and samples often consist mostly of sand. Fine grained sediments are deposited in flood plains of natural streams during periods of high flow. This scenario changes if the stream is impounded by a dam or channelized. Chemical attributes included metals, volatile and semi-volatile organic compounds, pesticides, and poly-chlorinated biphenyls (PCBs).

Appendix F-1

Surface Water Chemistry Results, 2009

Station	River or Stream	DA	RM	Date/Time	Temperature	CorrCond	UncorrCond	D.O. Sat	D.O. conc	D.O. chg	pH	pH mv	Alkalinity	Aluminum	Ammonia	Arsenic
V02G07	Battle Run	9.4	0.25	06/24/2009 09:30	18.59			79.5	7.42	42	7.80	-74.9			0.050	
V02G07	Battle Run	9.4	0.25	07/15/2009 09:40	18.11			75.9	7.15	38	8.00	-84.7			0.050	
V02G07	Battle Run	9.4	0.25	08/05/2009 09:50	19.52	948	849	59.7	5.47	47.1	7.92	-82.9			0.050	
V02G07	Battle Run	9.4	0.25	08/19/2009 09:25	22.31			43.7	3.78	44	7.80	-79			0.102	
V02G07	Battle Run	9.4	0.25	09/02/2009 09:30	14.78			62.2	6.28	45	7.82	-82			0.050	
V02G07	Battle Run Median	9.4	0.25		18.59			62.2	6.28		7.82				0.050	
300697	Big Swale	11.6	0.20	06/23/2009 10:15	20.2			42.0	3.80	40	7.38				0.156	
300697	Big Swale	11.6	0.20	09/01/2009 10:00	14.1	619	491	57.6	5.91	44.1	7.15				0.050	
V01S20	Cottonwood Ditch	11.3	4.10	06/22/2009 11:00	19.07			129.8	12.00	47	8.06	-87.9			0.050	
V01S20	Cottonwood Ditch	11.3	4.10	07/13/2009 10:45	20.23			142.3	12.85	46	8.22	-97.1			0.051	
V01S20	Cottonwood Ditch	11.3	4.10	08/03/2009 10:30	19.61			108.5	9.90	53.2	8.00	-87			0.192	
V01S20	Cottonwood Ditch	11.3	4.10	08/17/2009 10:40	24.17			76.3	6.38	48.2	7.76	-77.4			1.870	
V01S20	Cottonwood Ditch	11.3	4.10	08/31/2009 10:20	15.14			44.7	4.46	43	7.63	-71.5			1.910	
V01S20	Cottonwood Ditch	11.3	4.10	09/02/2009 10:26												
V01S20	Cottonwood Ditch Median	11.3	4.10		19.61			108.5	9.90		8.00				0.192	
V01S08	Cottonwood Ditch	19.3	0.68	02/10/2009 09:10	2.04			88.6	12.23	41	7.51	-61.1		4390	0.091	2.7
V01S08	Cottonwood Ditch	19.3	0.68	03/11/2009 09:05	6.69			83.8	10.22	56.2	7.32	-44.3		6120	0.050	2.8
V01S08	Cottonwood Ditch	19.3	0.68	04/08/2009 09:05	4.51			83.8	10.81	45	7.65	-55.5		923	0.050	2.0
V01S08	Cottonwood Ditch	19.3	0.68	05/06/2009 09:15	13.77			93.0	9.60	47	7.78	-67.5		1350	0.072	2.0
V01S08	Cottonwood Ditch	19.3	0.68	05/21/2009 08:20										2370	0.658	2.4
V01S08	Cottonwood Ditch	19.3	0.68	06/08/2009 08:27										1910	0.075	2.0
V01S08	Cottonwood Ditch	19.3	0.68	06/22/2009 10:35	22.36			90.1	7.80	44	7.76	-72.5		1210	0.066	2.0
V01S08	Cottonwood Ditch	19.3	0.68	06/30/2009 11:30												
V01S08	Cottonwood Ditch	19.3	0.68	06/30/2009 12:18												
V01S08	Cottonwood Ditch	19.3	0.68	07/13/2009 10:15	20.85			100.4	8.94	41	7.94	-82.5		1900	0.050	3.8
V01S08	Cottonwood Ditch	19.3	0.68	07/29/2009 09:10	23.92			80.1	6.73	45	7.82	-90.5		1430	0.050	5.5
V01S08	Cottonwood Ditch	19.3	0.68	08/03/2009 10:05	21.2			71.1	6.30	49.2	7.98	-85.7		2090	0.050	5.5
V01S08	Cottonwood Ditch	19.3	0.68	08/17/2009 10:20	25.28	1253		54.7	4.48	46	7.78	-79		706	0.100	6.3
V01S08	Cottonwood Ditch	19.3	0.68	08/31/2009 10:00	17.25	1092		101.1	9.69	49.2	8.39	-111		971	0.050	5.3
V01S08	Cottonwood Ditch	19.3	0.68	09/22/2009 08:50	20.6	1258		13.1	1.17	32.9	7.61	-38		231	0.146	4.5
V01S08	Cottonwood Ditch Median	19.30	0.68		21.20			80.1	6.73		7.82			1430	0.066	4.5
300689	Dunlap Creek	8.9	0.10	06/22/2009 09:50	18.75			93.0	8.65	43	7.67	-67.5			0.050	
300689	Dunlap Creek	8.9	0.10	07/13/2009 09:30	18.25			68.5	6.44	35.9	7.90	-79			0.052	
300689	Dunlap Creek	8.9	0.10	08/03/2009 09:20	18.86			63.9	5.94	47	7.92	-82.5			0.050	
300689	Dunlap Creek	8.9	0.10	08/17/2009 09:40	23.81			46.7	3.94	45	7.94	-86.9			0.113	
300689	Dunlap Creek	8.9	0.10	08/31/2009 09:20	15.28			69.6	6.96	45	8.15	-98.1			0.050	
300689	Dunlap Creek Median	8.90	0.10		18.75			68.5	6.44		7.92				0.050	
300701	Elliot Run	2.5	1.25	06/24/2009 09:05	19.72			75.5	6.90	44	7.67	-75			0.864	
300701	Elliot Run	2.5	1.25	07/15/2009 09:15	18.21			86.5	8.14	44	8.25	-108.9			0.689	
300701	Elliot Run	2.5	1.25	08/05/2009 09:50	19.7	738		69.4	6.32	44	8.11	-102			0.466	
300701	Elliot Run	2.5	1.25	08/19/2009 09:15	22.34			45.4	3.92	43	8.26	-112.2			1.600	
300701	Elliot Run	2.5	1.25	09/02/2009 09:30	14.45	842		102.8	10.18		8.29				0.050	
300701	Elliot Run Median	2.5	1.25		19.70			75.5	6.90		8.25				0.689	
300700	Fulton Creek	12.5	16.30	06/24/2009 09:25	24.62			66.6	5.53	44	7.67	-75.5			0.134	
300700	Fulton Creek	12.5	16.30	07/15/2009 09:30	21.18			79.0	7.01	44	8.22	-107.7			0.050	
300700	Fulton Creek	12.5	16.30	08/05/2009 10:10	21.61	648		42.5	3.75	42	7.98	-95.5			0.050	
300700	Fulton Creek	12.5	16.30	08/19/2009 09:35	24.47			34.5	2.88	42	7.84	-90			0.050	
300700	Fulton Creek	12.5	16.30	09/02/2009 09:55	17.84	605		74.4	6.86		7.74				0.118	
300700	Fulton Creek Median	12.5	16.30		21.61			66.6	5.53		7.84				0.050	
V02S07	Fulton Creek	24.9	10.35	06/24/2009 09:15	21.69			88.4	7.76	45	7.78	-81			0.063	
V02S07	Fulton Creek	24.9	10.35	07/15/2009 09:20											0.050	
V02S07	Fulton Creek	24.9	10.35	08/05/2009 10:00	19.52	760		70.4	6.44	44	7.88	-89.7			0.050	
V02S07	Fulton Creek	24.9	10.35	08/19/2009 09:25	21.82			44.9	3.93	42	7.78	-86.2			0.050	
V02S07	Fulton Creek	24.9	10.35	09/02/2009 09:40	14.72	680		88.2	8.69		8.13				0.050	
V02S07	Fulton Creek	24.9	10.35	09/02/2009 10:40												
V02S07	Fulton Creek Median	24.9	10.35		20.61			79.3	7.10		7.83				0.050	
V02S06	Richwood WWTP	25.2	9.50	06/24/2009 09:40	18			84.4	7.96	44	7.69	-75.9			9.570	
V02S06	Richwood WWTP	25.2	9.50	07/15/2009 09:45	19.23			96.0	8.82	45	7.98	-94.5		200	0.050	2.0
V02S06	Richwood WWTP	25.2	9.50	08/05/2009 10:20	19.72	1314		93.6	8.52	46	7.94	-92.2		200	0.050	2.0
V02S06	Richwood WWTP	25.2	9.50	08/19/2009 10:00	21.73			83.6	7.32	46	7.82	-88.5		200	0.050	2.0
V02S06	Richwood WWTP	25.2	9.50	09/02/2009 10:10	18.63	1174		94.2	8.53		8.01			200	0.804	2.0
V02S06	Fulton Creek Median	25.2	9.50		19.23			93.6	8.52		7.94			200	0.050	2.0
V02S05	Fulton Creek	29	8.70	06/24/2009 09:55	21.03			44.0	3.92	41	7.67	-74.6		200	0.689	2.0
V02S05	Fulton Creek	29	8.70	07/15/2009 09:50	18.44			66.9	6.26	42	7.90	-89.6		200	0.065	4.0
V02S05	Fulton Creek	29	8.70	08/05/2009 10:35	19.77	1045		60.5	5.51	43	7.88	-89.9		200	0.075	3.8
V02S05	Fulton Creek	29	8.70	08/19/2009 10:15	22.69			48.4	4.15	43	7.86	-91.4		200	0.082	4.5
V02S05	Fulton Creek	29	8.70	09/02/2009 10:25	15.03	877		79.0	7.72		8.02			200	0.124	2.6
V02S05	Fulton Creek Median	29	8.70		19.77			60.5	5.51		7.88			200	0.082	3.8
V02S04	Fulton Creek	40	6.44	06/24/2009 08:50	20.64			54.5	4.90	42	7.61	-71.6			0.117	
V02S04	Fulton Creek	40	6.44	07/15/2009 09:00	18.13			55.7	5.25	41	7.88	-88.6			0.050	
V02S04	Fulton Creek	40	6.44	08/05/2009 09:35	19.54	1007		57.0	5.21	43	7.90	-90.7			0.050	
V02S04	Fulton Creek	40	6.44	08/19/2009 09:00	22.37			35.0	3.03	42	7.84	-89.6			0.070	
V02S04	Fulton Creek	40	6.44	09/02/2009 09:20	14.49	813		84.1	8.32		8.12				0.050	
V02S04	Fulton Creek Median	40	6.44		19.54			55.7	5.21		7.88				0.050	
V02S02	Fulton Creek	46.4	1.20	06/24/2009 08:46	21.48			65.5	5.76	43	7.67	-74.6			0.050	
V02S02	Fulton Creek	46.4	1.20	07/15/2009 08:46	19.05			74.3	6.86	43	7.80	-90			0.050	
V02S02	Fulton Creek	46.4	1.20	08/05/2009 09:25	20.3	883		66.3	5.98	43	7.84	-87.5			0.050	

Station	River or Stream	DA	RM	Date/Time	Temperature	CorrCond	UncorrCond	D.O. Sat	D.O. conc	D.O. chg	pH	pH mv	Alkalinity	Aluminum	Ammonia	Arsenic
V02S02	Fulton Creek	46.4	1.20	08/19/2009 08:45	22.82			42.7	3.67	44	7.78	-86.6			0.050	
V02S02	Fulton Creek	46.4	1.20	09/02/2009 09:05	15.26	718		83.6	8.14		8.09				0.050	
V02S02	Fulton Creek Median	46.4	1.20		20.30			66.3	5.98		7.84				0.050	
V06P08	Fulton Creek	46.9	0.22	02/10/2009 12:45	0.25			89.5	12.98	39	7.65	-68.2		1870	0.164	2.0
V06P08	Fulton Creek	46.9	0.22	03/11/2009 12:35	8.17			91.5	10.77	51.2	8.02	-81		1850	0.050	2.0
V06P08	Fulton Creek	46.9	0.22	04/08/2009 12:35	7.48			126.4	15.14	48.2	8.60	-105.4		640	0.050	2.0
V06P08	Fulton Creek	46.9	0.22	05/21/2009 11:58										200	0.050	2.0
V06P08	Fulton Creek	46.9	0.22	05/27/2009 10:05	21.13			102.4	9.07	46	8.11	-96.9		200	0.050	2.4
V06P08	Fulton Creek	46.9	0.22	06/08/2009 12:06										200	0.050	2.6
V06P08	Fulton Creek	46.9	0.22	06/24/2009 08:25	21.32			73.5	6.51	44	7.61	-71.9		200	0.050	2.0
V06P08	Fulton Creek	46.9	0.22	07/15/2009 08:30	18.85			81.4	7.55	45	7.80	-84.5		200	0.050	3.8
V06P08	Fulton Creek	46.9	0.22	07/30/2009 10:30	20.38			98.0	8.82	45	7.82	-90.1		228	0.050	3.9
V06P08	Fulton Creek	46.9	0.22	08/05/2009 09:15	20.23	861		76.0	6.86	45	7.78	-83.5		200	0.050	4.5
V06P08	Fulton Creek	46.9	0.22	08/19/2009 08:30	22			62.2	5.42	45	7.75	-84.5		230	0.050	4.9
V06P08	Fulton Creek	46.9	0.22	09/02/2009 08:50	15.02	758		91.8	8.99		8.24			200	0.050	3.1
V06P08	Fulton Creek	46.9	0.22	09/02/2009 12:15												
V06P08	Fulton Creek	46.9	0.22	09/22/2009 12:15	19.12	702		87.6	8.10	38	7.65	-40.3		200	0.050	3.6
V06P08	Fulton Creek Median	46.9	0.22		20.31			84.5	7.83		7.79			200	0.050	3.4
300698	Goose Creek		0.30	06/25/2009 09:55				65.8	5.90	42	7.73	-71.2		200	0.181	2.0
300698	Goose Creek		0.30	07/16/2009 10:00	18.46			15.1	1.41	32.9	7.03	-34.1		200	0.050	2.1
300698	Goose Creek		0.30	08/06/2009 10:00	16.95			79.5	7.69	49.2	7.26	-50.5		200	0.050	2.0
300698	Goose Creek		0.30	08/20/2009 09:50	21.29			59.2	5.25	45	7.42	-57.3		200	1.326	2.0
300698	Goose Creek		0.30	09/03/2009 09:45	14.27			59.9	6.13	45	7.30	-57.3		337	0.050	2.1
V02P11	Honey Creek	7.3	0.10	06/25/2009 08:45	22.29			75.5	6.55	44	7.48	-64.6			0.081	
V02P11	Honey Creek	7.3	0.10	07/16/2009 08:50	20.6			68.0	6.09	43	7.78	-84.9			0.050	
V02P11	Honey Creek	7.3	0.10	08/06/2009 08:55	18.04	892		75.8	7.15	45	7.82	-85.9			0.050	
V02P11	Honey Creek	7.3	0.10	08/20/2009 08:35	21.22			51.9	4.59	41	7.51	-71.5			0.057	
V02P11	Honey Creek	7.3	0.10	09/03/2009 08:35	14.58	907		84.2	8.37		8.05				0.050	
V02P11	Honey Creek Median	7.3	0.10		20.60			75.5	6.55		7.78				0.050	
V02G05	Kebler Run	14.3	0.87	02/10/2009 12:30	3.52			92.9	12.31	41	7.59	-65.6		2660	0.050	2.0
V02G05	Kebler Run	14.3	0.87	03/11/2009 12:25	6.86			98.5	11.97	53.2	7.98	-78.2		698	0.050	2.0
V02G05	Kebler Run	14.3	0.87	04/08/2009 12:25	7.38			137.3	16.48	50.2	8.35	-92		200	0.050	2.0
V02G05	Kebler Run	14.3	0.87	05/21/2009 11:46	10.81			92.5	10.22	46	7.63	-70.2		200	0.050	2.0
V02G05	Kebler Run	14.3	0.87	06/08/2009 11:51										200	0.050	2.0
V02G05	Kebler Run	14.3	0.87	06/24/2009 10:05	19.26			107.5	9.90	47	7.84	-77.2		200	0.050	2.0
V02G05	Kebler Run	14.3	0.87	07/15/2009 10:20	18.36			107.5	10.09	42	7.88	-78.2		200	0.050	2.0
V02G05	Kebler Run	14.3	0.87	07/30/2009 10:15	19.29			87.5	8.05	43	7.69	-82.5		200	0.050	2.0
V02G05	Kebler Run	14.3	0.87	08/05/2009 10:15	19.76	887	799	90.8	8.27	50.2	8.16	-95.9		200	0.050	2.0
V02G05	Kebler Run	14.3	0.87	08/19/2009 10:05	21.62	807		57.9	5.09	45	7.63	-69.7		200	0.063	2.4
V02G05	Kebler Run	14.3	0.87	09/02/2009 10:10	15.1	717		81.5	8.18	47	7.76	-78.5		200	0.050	2.0
V02G05	Kebler Run	14.3	0.87	09/02/2009 14:15												
V02G05	Kebler Run	14.3	0.87	09/22/2009 12:05	19.37	740		76.5	7.03	36.9	7.84	-50.3		200	0.061	2.0
V02G05	Kebler Run Median	14.3	0.87		19.28			89.2	8.23		7.80			200	0.050	2.0
V02G02	Little Scioto River	12.8	25.59	06/25/2009 08:40	22.61			60.0	5.19	41	7.57	-63			0.105	
V02G02	Little Scioto River	12.8	25.59	07/16/2009 08:45	20.29			46.0	4.15	34.9	7.55	-62.5			0.142	
V02G02	Little Scioto River	12.8	25.59	08/06/2009 08:50	16.79			61.7	5.98	46	7.63	-70.7			0.050	
V02G02	Little Scioto River	12.8	25.59	08/20/2009 08:40	21			46.5	4.15	44	7.63	-68.6			0.050	
V02G02	Little Scioto River	12.8	25.59	09/03/2009 08:25	13.53			62.5	6.48	45	7.50	-66.5			0.050	
V02G02	Little Scioto River Median	12.8	25.59		20.29			60.0	5.19		7.57				0.050	
V02G01	Little Scioto River	33	19.70	06/25/2009 08:55	22.96			74.8	6.40	42	7.84	-78		379	0.050	2.0
V02G01	Little Scioto River	33	19.70	07/16/2009 09:00	20.22			64.8	5.86	36.9	7.80	-76.5		200	0.050	2.7
V02G01	Little Scioto River	33	19.70	08/06/2009 09:00	18.39			65.4	6.13	46	7.82	-81		204	0.050	2.7
V02G01	Little Scioto River	33	19.70	08/20/2009 08:50	22.03			46.4	4.05	44	7.71	-73		360	0.078	3.7
V02G01	Little Scioto River	33	19.70	09/03/2009 08:40	15.43			67.1	6.71	45	7.67	-76.2		297	0.050	2.2
V02G01	Little Scioto River Median	33	19.70		20.22			65.4	6.13		7.80			297	0.050	2.7
V02S01	Little Scioto River	47	11.10	02/10/2009 11:05	0.4			91.5	13.22	40	7.67	-68.6		2430	0.067	2.0
V02S01	Little Scioto River	47	11.10	03/11/2009 10:35	6.92			84.0	10.21	52.2	7.65	-61.5		7540	0.050	3.1
V02S01	Little Scioto River	47	11.10	04/08/2009 10:50	4.4			94.4	12.22	45	8.05	-76		345	0.050	2.0
V02S01	Little Scioto River	47	11.10	05/21/2009 10:35										856	0.050	2.0
V02S01	Little Scioto River	47	11.10	05/27/2009 08:30	19.48			64.9	5.94	42	7.63	-70.9		682	0.050	2.0
V02S01	Little Scioto River	47	11.10	06/08/2009 10:29										1050	0.050	2.0
V02S01	Little Scioto River	47	11.10	06/25/2009 09:25	22.46			78.0	6.73	43	7.73	-72.4		825	0.050	2.0
V02S01	Little Scioto River	47	11.10	07/16/2009 09:35										553	0.050	2.2
V02S01	Little Scioto River	47	11.10	07/30/2009 08:30	20.73			69.5	6.21	43	7.80	-89.5		532	0.050	2.4
V02S01	Little Scioto River	47	11.10	08/06/2009 09:35	18.95			67.1	6.23	47	7.76	-77.1		719	0.054	2.5
V02S01	Little Scioto River	47	11.10	08/20/2009 09:25	21	607		37.0	3.28	43	7.59	-66.7		1080	0.243	2.9
V02S01	Little Scioto River	47	11.10	09/02/2009 16:50												
V02S01	Little Scioto River	47	11.10	09/03/2009 09:15										1050	0.050	2.3
V02S01	Little Scioto River	47	11.10	09/22/2009 10:35	18.64	860		35.4	3.29	32.9	7.67	-40.8		288	0.612	2.0
V02S01	Little Scioto River Median	47	11.10		20.11			66.0	6.08		7.70			772	0.050	2.1
V02S13	Little Scioto River	73	9.24	06/25/2009 10:10	24.1			79.0	6.63	45	7.88	-86.6			0.050	
V02S13	Little Scioto River	73	9.24	07/16/2009 10:10	21.88			79.5	6.96	45	7.92	-92.5			0.050	
V02S13	Little Scioto River	73	9.24	08/06/2009 10:20	20.42	687		70.8	6.36	46	7.88	-89.5			0.050	
V02S13	Little Scioto River	73	9.24	08/20/2009 09:50	23.32			53.2	4.53	42	7.88	-91.1			0.050	
V02S13	Little Scioto River	73	9.24	09/03/2009 09:55	16.23	711		84.5	8.11		7.93				0.050	
V02S13	Little Scioto River Median	73	9.24		21.88			79.0	6.63		7.88				0.050	
300624	Little Scioto River	86	6.50	06/25/2009 09:46	23.29			34.7	2.96	41	7.44	-62.3		946	0.091	2.0

Station	River or Stream	DA	RM	Date/Time	Temperature	CorrCond	UncorrCond	D.O. Sat	D.O. conc	D.O. chg	pH	pH mv	Alkalinity	Aluminum	Ammonia	Arsenic
300624	Little Scioto River	86	6.50	07/16/2009 09:35	21.01			31.2	2.78	39	7.55	-71.6		343	0.263	3.9
300624	Little Scioto River	86	6.50	08/06/2009 09:45	19.97	823		29.2	2.66	43	7.67	-77.6		566	0.167	4.1
300624	Little Scioto River	86	6.50	08/20/2009 09:25	22.19			23.3	2.02	41	7.44	-67.2		485	0.642	2.4
300624	Little Scioto River	86	6.50	09/03/2009 09:20	15.95	784		68.4	6.60		7.66			1060	0.112	2.7
300624	Little Scioto River Median	86	6.50		21.01			31.2	2.78		7.55			566	0.167	2.7
V02S11	Marion WWTP	86	6.39	06/25/2009 09:20	21.23			87.4	7.73	45	7.59	-70.6		200	0.165	2.0
V02S11	Marion WWTP	86	6.39	07/16/2009 09:20	21.48			83.6	7.36	45	7.59	-74.1		200	0.207	2.0
V02S11	Marion WWTP	86	6.39	08/06/2009 09:25	21.93	1128		82.4	7.19	47	7.59	-73.7		200	0.173	2.2
V02S11	Marion WWTP	86	6.39	08/20/2009 09:10	22.45			77.5	6.71	45	7.17	-53.3		200	1.946	2.0
V02S11	Marion WWTP	86	6.39	09/03/2009 09:10	20.77	1151		92.3	8.07		7.62			200	0.153	2.0
V02S11	Marion WWTP Median	86	6.39		21.48			83.6	7.36		7.59			200	0.173	2.0
V02P10	Little Scioto River	86	5.74	06/25/2009 09:10	22.47			55.5	4.78	42	7.59	-70.4		1440	0.194	2.4
V02P10	Little Scioto River	86	5.74	07/16/2009 09:10	21.31			57.5	5.09	42	7.63	-76.6		862	0.276	2.8
V02P10	Little Scioto River	86	5.74	08/06/2009 09:15	20.9	1096		63.2	5.63	46	7.71	-79.9		844	0.227	3.0
V02P10	Little Scioto River	86	5.74	08/20/2009 09:00	22.61			63.5	5.48	45	7.17	-53.3		200	2.880	2.0
V02P10	Little Scioto River	86	5.74	09/03/2009 09:00	18.5	985		76.1	6.96		7.59			892	0.179	2.4
V02P10	Little Scioto River Median	86	5.74		21.31			63.2	5.48		7.59			862	0.227	2.4
V02P07	Little Scioto River	113	0.39	02/10/2009 11:35	1.29			90.0	12.68	41	7.61	-66.2		1820	0.223	2.0
V02P07	Little Scioto River	113	0.39	03/11/2009 11:25	7.55			79.4	9.48	52.2	7.55	-55.8		4190	0.101	2.2
V02P07	Little Scioto River	113	0.39	04/08/2009 11:35	5.96			80.8	10.05	44	7.78	-63		402	0.408	2.0
V02P07	Little Scioto River	113	0.39	05/21/2009 10:00	18.93			56.7	5.26	42	7.59	-68.7		1270	0.172	2.2
V02P07	Little Scioto River	113	0.39	05/27/2009 09:15										1060	0.126	2.7
V02P07	Little Scioto River	113	0.39	06/08/2009 11:05										1320	0.112	2.2
V02P07	Little Scioto River	113	0.39	06/24/2009 09:00	21.37			59.4	5.25	41	7.55	-61.8		895	0.142	2.4
V02P07	Little Scioto River	113	0.39	07/16/2009 08:30	20.75			48.7	4.34	41	7.42	-65.2		281	0.202	3.3
V02P07	Little Scioto River	113	0.39	07/30/2009 09:25	20.18			46.4	4.19	42	7.44	-69.9		525	0.120	3.5
V02P07	Little Scioto River	113	0.39	08/06/2009 08:35	19.14	963		50.4	4.65	44	7.48	-67.5		324	0.144	3.5
V02P07	Little Scioto River	113	0.39	08/20/2009 08:15	22.11			51.0	4.46	43	7.51	-71.5		2670	0.370	3.3
V02P07	Little Scioto River	113	0.39	09/02/2009 16:20												
V02P07	Little Scioto River	113	0.39	09/03/2009 08:15	16.45	855		70.4	6.72		7.65			498	0.095	2.5
V02P07	Little Scioto River	113	0.39	09/22/2009 11:10	19.73	920		42.5	3.88	33.9	7.61	-37.8		200	0.118	2.4
V02P07	Little Scioto River Median	113	0.39		19.96			50.7	4.56		7.53			710	0.134	2.6
300690	McCoy Run	8	0.55	06/22/2009 11:25	19.34			118.5	10.89	46	7.90	-79			0.050	
300690	McCoy Run	8	0.55	07/13/2009 11:10	19.88			94.8	8.63	40	8.27	-100			0.231	
300690	McCoy Run	8	0.55	08/03/2009 10:50	19.04			60.5	5.61	48.2	7.90	-81.9			0.160	
300690	McCoy Run	8	0.55	08/17/2009 11:10	22.62			25.8	2.24	42	7.73	-75.2			1.119	
300690	McCoy Run	8	0.55	08/31/2009 10:45	15.81			74.0	7.32	46	7.92	-86			0.071	
300690	McCoy Run	8	0.55	09/02/2009 13:23												
300690	McCoy Run Median	8	0.55		19.34			74.0	7.32		7.90				0.160	
V01K05	McDonald Creek	2.6	9.17	06/23/2009 09:00	16.88			78.0	7.53	33.9	7.48	-66			0.050	
V01K05	McDonald Creek	2.6	9.17	07/14/2009 08:15	15.19			15.6	1.58	36.9	7.34	-59.5			0.050	
V01K05	McDonald Creek	2.6	9.17	08/04/2009 08:55	18.21	732		42.5	4.01	42	7.40	-63.6			0.118	
V01K05	McDonald Creek	2.6	9.17	08/18/2009 08:25	21.42			11.6	1.01	43	7.40	-64.7			0.141	
V01K05	McDonald Creek	2.6	9.17	09/01/2009 08:20	12.98			44.0	4.63	43	7.40	-66.5			0.050	
V01K05	McDonald Creek Median	2.6	9.17		16.88			42.5	4.01		7.40				0.050	
V01W34	McDonald Creek	6.3	6.82	06/23/2009 09:05	20.1			114.8	10.39	38	7.96	-91.4			0.050	
V01W34	McDonald Creek	6.3	6.82	07/14/2009 08:30	17.03			44.7	4.30	41	7.84	-85.6			0.050	
V01W34	McDonald Creek	6.3	6.82	08/04/2009 09:05	20.37	678		53.0	4.76	43	7.94	-91.7			0.050	
V01W34	McDonald Creek	6.3	6.82	08/18/2009 08:35	22.56			26.1	2.25	43	7.82	-88			0.050	
V01W34	McDonald Creek	6.3	6.82	09/01/2009 08:30	12.36			72.0	7.69	45	7.67	-80			0.050	
V01W34	McDonald Creek	6.3	6.82	09/02/2009 15:37												
V01W34	McDonald Creek	6.3	6.82	09/02/2009 15:48												
V01W34	McDonald Creek Median	6.3	6.82		20.10			53.0	4.76		7.84				0.050	
203089	McDonald Creek	12.3	2.70	06/23/2009 10:00	20.7			75.6	6.76	34.9	7.92	-90		251	0.059	2.0
203089	McDonald Creek	12.3	2.70	07/14/2009 09:30	16.92			53.7	5.19	41	7.84	-86		200	0.050	3.4
203089	McDonald Creek	12.3	2.70	08/04/2009 10:05	19.73	648		59.2	5.40	43	7.96	-93		200	0.052	4.0
203089	McDonald Creek	12.3	2.70	08/18/2009 09:40	22.62			30.2	2.60	42	7.76	-84.7		200	0.145	6.7
203089	McDonald Creek	12.3	2.70	09/01/2009 09:30	14.39			76.6	7.80	46	7.88	-91.1		300	0.113	3.2
203089	McDonald Creek	12.3	2.70	09/01/2009 16:35												
203089	McDonald Creek Median	12.3	2.70		19.73			59.2	5.40		7.88				0.059	
V02S14	N. Rock Swale Ditch	7.3	2.55	06/25/2009 10:15	23.63			118.3	10.00	49.2	7.96	-90.5		200	0.050	5.1
V02S14	N. Rock Swale Ditch	7.3	2.55	07/16/2009 10:15	22			50.0	4.36	42	7.63	-76.6		502	0.413	6.5
V02S14	N. Rock Swale Ditch	7.3	2.55	08/06/2009 10:30	19.64	1303		90.1	8.22	49.2	7.90	-90.2		200	0.133	4.4
V02S14	N. Rock Swale Ditch	7.3	2.55	08/20/2009 10:00	22.07			50.0	4.36	41	7.80	-87.4		200	0.050	7.0
V02S14	N. Rock Swale Ditch	7.3	2.55	09/03/2009 10:00	19.21	473		70.4	6.36		7.96			3800	0.208	6.2
V02S14	N. Rock Swale Ditch Median	7.3	2.55		22			70.4	6.36		7.90			200	0.133	6.2
V02W15	N. Rock Swale Ditch	10	0.55	06/25/2009 09:50	22.72			91.5	7.86	46	7.86	-85.6		200	0.088	3.4
V02W15	N. Rock Swale Ditch	10	0.55	07/16/2009 09:55	20.93			11.8	1.04	39	7.55	-72		210	0.854	5.5
V02W15	N. Rock Swale Ditch	10	0.55	08/06/2009 10:00	17.87	1094		18.7	1.76	43	7.61	-74.7		200	0.260	7.0
V02W15	N. Rock Swale Ditch	10	0.55	08/20/2009 09:40	21.88			38.2	3.33	42	7.51	-71.4		275	0.050	4.1
V02W15	N. Rock Swale Ditch	10	0.55	09/03/2009 09:40	13.94	1179		69.8	7.03		7.73			200	0.061	5.3
V02W15	N. Rock Swale Ditch Median	10	0.55		20.93			38.2	3.33		7.61			200	0.088	5.3
V02G06	Ottawa Creek	8	0.08	06/24/2009 09:50	20.26			93.5	8.44	45	7.96	-84.5			0.050	
V02G06	Ottawa Creek	8	0.08	07/15/2009 10:05	18.42			107.0	10.02	42	8.21	-96.2			0.050	
V02G06	Ottawa Creek	8	0.08	08/05/2009 10:30	18.55	781	685	63.9	5.93	47.1	7.66	-68.3			0.050	
V02G06	Ottawa Creek	8	0.08	08/19/2009 09:55	22.39			87.0	7.53	48.2	8.13	-96.5			0.050	
V02G06	Ottawa Creek	8	0.08	09/02/2009 09:55	14.6			93.3	9.47	48.2	8.14	-98			0.050	

Station	River or Stream	DA	RM	Date/Time	Temperature	CorrCond	UncorrCond	D.O. Sat	D.O. conc	D.O. chg	pH	pH mv	Alkalinity	Aluminum	Ammonia	Arsenic
V02G06	Ottawa Creek Median	8	0.08		18.55			93.3	8.44		8.13				0.050	
V01W28	Panther Creek	7.1	8.91	06/22/2009 10:00	20.45			89.5	8.06	34.9	8.09	-99.4			0.050	
V01W28	Panther Creek	7.1	8.91	07/13/2009 09:45	17.4			73.8	7.05	43	8.02	-94.5			0.062	
V01W28	Panther Creek	7.1	8.91	08/03/2009 09:50	17.32		662	59.5	5.69	42	7.98	-92.4			0.082	
V01W28	Panther Creek	7.1	8.91	08/17/2009 09:50	21.97			41.2	3.59	44	7.80	-87.6			0.198	
V01W28	Panther Creek	7.1	8.91	08/31/2009 12:45											0.053	
V01W28	Panther Creek Median	7.1	8.91		18.925			66.7	6.37		8.00				0.062	
300704	Panther Creek	11	7.80	06/22/2009 09:50	20.2			85.0	7.69	34.9	8.06	-97.5			0.050	
300704	Panther Creek	11	7.80	07/13/2009 09:35	18.07			57.4	5.40	42	7.96	-91			0.086	
300704	Panther Creek	11	7.80	08/03/2009 09:35	18.95		746	55.2	5.11	42	7.94	-90.5			0.050	
300704	Panther Creek	11	7.80	08/17/2009 09:35	22.19			25.3	2.20	43	7.71	-82.7			0.086	
300704	Panther Creek	11	7.80	08/31/2009 12:55											0.056	
300704	Panther Creek Median	11	7.80		19.575			56.3	5.26		7.95				0.056	
V01W30	Panther Creek	22.3	1.80	06/22/2009 08:50	20.69			84.9	7.59	35.9	7.90	-89		365	0.071	2.0
V01W30	Panther Creek	22.3	1.80	07/13/2009 08:40	19			81.0	7.51	45	7.86	-85.9		200	0.050	2.5
V01W30	Panther Creek	22.3	1.80	08/03/2009 08:40	18.23		1316	68.9	6.46	45	7.96	-91.4		200	0.050	7.5
V01W30	Panther Creek	22.3	1.80	08/17/2009 08:40	22.14			34.5	3.00	45	7.61	-77.1		200	0.149	7.9
V01W30	Panther Creek	22.3	1.80	08/31/2009 10:20										200	0.264	3.9
V01W30	Panther Creek Median	22.3	1.80		19.845			75.0	6.99		7.88			200	0.071	3.9
300699	Patton Run	14.4	2.25	06/24/2009 09:15	19.38			83.5	7.67	43	7.75	-72.4			0.073	
300699	Patton Run	14.4	2.25	07/15/2009 09:20	18.23			87.9	8.27	39	7.82	-74.7			0.057	
300699	Patton Run	14.4	2.25	08/05/2009 09:30	18.79		792	75.2	6.99	48.2	7.85	-78.8			0.050	
300699	Patton Run	14.4	2.25	08/19/2009 09:10	19.5			50.5	4.63	44	7.59	-67.2			0.050	
300699	Patton Run	14.4	2.25	09/02/2009 09:15	14.22			86.9	8.89	47	7.84	-82.9			0.050	
300699	Patton Run Median	14.4	2.25		18.79			83.5	7.67		7.82				0.050	
V02G03	Rock Fork	7.6	8.13	06/25/2009 09:10	21.94			79.5	6.94	43	7.63	-66.5			0.050	
V02G03	Rock Fork	7.6	8.13	07/16/2009 09:20	20.51			59.9	5.38	36.9	7.67	-68.9			0.050	
V02G03	Rock Fork	7.6	8.13	08/06/2009 09:15	17.26			35.2	3.36	44	7.46	-61.1			0.050	
V02G03	Rock Fork	7.6	8.13	08/20/2009 09:05	21.62			25.5	2.24	41	7.42	-57.8			0.050	
V02G03	Rock Fork	7.6	8.13	09/03/2009 08:55											0.050	
V02G03	Rock Fork Median	7.6	8.13		21.065			47.6	4.37		7.55				0.050	
V02P09	Rock Fork	23.1	1.10	02/10/2009 11:15	0.03			90.5	13.19	40	7.63	-67.5		4320	0.124	2.2
V02P09	Rock Fork	23.1	1.10	03/11/2009 10:45	6.84			86.6	10.55	52.2	7.67	-62.3		3910	0.058	2.0
V02P09	Rock Fork	23.1	1.10	04/08/2009 10:55	4.73			104.0	13.34	47	8.22	-84.9		200	0.050	2.0
V02P09	Rock Fork	23.1	1.10	05/21/2009 10:46										200	0.050	2.0
V02P09	Rock Fork	23.1	1.10	05/27/2009 08:45	19.79			63.5	5.78	43	7.71	-75.2		293	0.053	2.0
V02P09	Rock Fork	23.1	1.10	06/08/2009 10:37										786	0.050	2.0
V02P09	Rock Fork	23.1	1.10	06/25/2009 09:35	23.03			82.9	7.09	44	7.82	-77.4		572	0.050	2.0
V02P09	Rock Fork	23.1	1.10	07/16/2009 09:45	22.51			87.8	7.59	41	7.98	-85.9		200	0.050	2.1
V02P09	Rock Fork	23.1	1.10	07/30/2009 08:45	20.4			72.9	6.55	42	7.78	-88.1		211	0.050	2.6
V02P09	Rock Fork	23.1	1.10	08/06/2009 09:45	20.25			87.3	7.88	49.2	7.98	-89.5		200	0.050	2.8
V02P09	Rock Fork	23.1	1.10	08/20/2009 09:40	23.23		825	71.3	6.07	47	7.92	-84.5		230	0.050	2.7
V02P09	Rock Fork	23.1	1.10	09/03/2009 09:35	15.68		893	76.8	7.61	47	7.76	-81.1		200	0.050	2.0
V02P09	Rock Fork	23.1	1.10	09/22/2009 10:45	20.77		834	85.0	7.61	38	8.07	-63.5		200	0.050	2.0
V02P09	Rock Fork Median	23.1	1.10		20.59			79.9	7.34		7.87			206	0.050	2.0
300693	Rush Creek	11.8	39.45	06/23/2009 08:45	18.32			55.2	5.17	41	7.50	-58.5		279	0.152	2.4
300693	Rush Creek	11.8	39.45	07/14/2009 08:30	15.27			56.2	5.63	33.9	7.40	-53.8		200	0.105	2.0
300693	Rush Creek	11.8	39.45	08/04/2009 08:35	17.86			57.0	5.40	47	7.53	-64.2		200		2.0
300693	Rush Creek	11.8	39.45	08/18/2009 08:20	20.2		757	45.0	4.07	44	7.51	-63.3		200	0.066	2.0
300693	Rush Creek	11.8	39.45	09/01/2009 08:25	12.55		744	66.8	7.10	44.1	7.50	-65.5		200	0.082	2.0
300693	Rush Creek Median	11.8	39.45		17.86			56.2	5.40		7.50			200	0.094	2.0
300694	Rush Creek	14.8	36.15	06/23/2009 09:10	20.13			86.5	7.82	43	8.14	-93.5		639	0.050	2.2
300694	Rush Creek	14.8	36.15	07/14/2009 08:45	17.11			80.5	7.75	36.9	8.14	-93.9		452	0.050	2.0
300694	Rush Creek	14.8	36.15	08/04/2009 08:50	19.59			77.0	7.05	49.2	8.17	-97.9		359	0.050	2.2
300694	Rush Creek	14.8	36.15	08/18/2009 08:35	22.09			69.9	6.07	46	8.03	-91.4		433	0.050	2.3
300694	Rush Creek	14.8	36.15	09/01/2009 08:50	13.37		903	81.0	8.44	46.1	8.16	-99.6		358	0.050	2.1
300694	Rush Creek Median	14.8	36.15		19.59			80.5	7.75		8.14			433	0.050	2.2
300695	Rush Creek	25.7	26.26	06/23/2009 09:30	20.14			89.0	8.05	44	8.09	-90.7		375	0.050	2.0
300695	Rush Creek	25.7	26.26	07/14/2009 09:15	17.05			78.5	7.57	36.9	8.03	-88.2		240	0.050	2.0
300695	Rush Creek	25.7	26.26	08/04/2009 09:15	19.71		645	70.6	6.45	48.2	7.94	-85.7		313	0.050	2.0
300695	Rush Creek	25.7	26.26	08/18/2009 09:00	22.4			62.7	5.44	45	7.88	-82.9		200	0.050	2.4
300695	Rush Creek	25.7	26.26	09/01/2009 09:15	14.02		651	76.0	7.82	46.1	7.97	-89.9		200	0.063	2.0
300695	Rush Creek Median	25.7	26.26		19.71			76.0	7.57		7.97			240	0.050	2.0
300696	Rush Creek	50	14.50	06/23/2009 09:55	20.84			84.0	7.50	43	8.00			772	0.050	2.0
300696	Rush Creek	50	14.50	07/14/2009 09:40	18.48			77.1	7.21	36.9	8.07			447	0.050	2.0
300696	Rush Creek	50	14.50	08/04/2009 09:40	19.59		626	79.2	7.24	49.2	8.04			1060	0.050	2.4
300696	Rush Creek	50	14.50	08/18/2009 09:25	22.50			60.7	5.23	45	8.09			204	0.050	2.5
300696	Rush Creek	50	14.50	09/01/2009 09:40	14.32		344	74.8	7.65	45.1	7.63			676	0.062	2.3
300696	Rush Creek Median	50	14.50		19.59			77.1	7.24		8.04			676	0.050	2.3
V01S01	Rush Creek	77	5.39	03/11/2009 11:45	7.86			81.4	9.64	52.2	7.82	-70.4		1700	0.050	2.0
V01S01	Rush Creek	77	5.39	04/08/2009 11:50	5.48			94.9	11.94	45	8.18	-82.5		729	0.050	2.0
V01S01	Rush Creek	77	5.39	05/07/2009 09:25	13.05			81.1	8.52	45	7.76	-77.1		700	0.050	2.0
V01S01	Rush Creek	77	5.39	05/21/2009 09:45										619	0.050	2.0
V01S01	Rush Creek	77	5.39	06/08/2009 09:52										892	0.050	2.0
V01S01	Rush Creek	77	5.39	06/23/2009 10:40	21.38			76.5	6.76	43	7.69	-69.1		1180	0.094	2.1
V01S01	Rush Creek	77	5.39	06/30/2009 16:38									241	424	0.050	2.0
V01S01	Rush Creek	77	5.39	06/30/2009 17:00												2.0

Station	River or Stream	DA	RM	Date/Time	Temperature	CorrCond	UncorrCond	D.O. Sat	D.O. conc	D.O. chg	pH	pH mv	Alkalinity	Aluminum	Ammonia	Arsenic
V01S01	Rush Creek	77	5.39	06/30/2009 17:29												
V01S01	Rush Creek	77	5.39	07/14/2009 10:20	18.04			75.4	7.11	38	7.98	-85.4		306	0.050	2.4
V01S01	Rush Creek	77	5.39	07/29/2009 11:10	21.37			71.3	6.30	42	7.88	-93		583	0.050	2.5
V01S01	Rush Creek	77	5.39	08/04/2009 10:20	19.57	607	544	69.7	6.38	48.2	7.78	-76.9		1720	0.050	2.9
V01S01	Rush Creek	77	5.39	08/18/2009 10:20	18.96			67.3	6.23	47	7.76	-77.5		345	0.050	2.7
V01S01	Rush Creek	77	5.39	09/01/2009 10:25	15.73	371	306	74.9	7.43	46.1	7.65	-73.8		1340	0.066	2.3
V01S01	Rush Creek	77	5.39	09/22/2009 11:30	19.09	623		52.0	4.80	33.9	7.80	-47.5		200	0.050	2.1
V01S01	Rush Creek Median	77	5.39		19.03			73.1	6.57		7.77			619	0.050	2.1
V01K04	Rush Creek	105	0.55	06/23/2009 11:00	21.23			75.1	6.65	43	7.63	-65.6		1580	0.116	2.2
V01K04	Rush Creek	105	0.55	07/14/2009 10:40	18.7			75.0	7.00	36.9	7.94	-83.6		262	0.050	3.0
V01K04	Rush Creek	105	0.55	08/04/2009 10:40	20.15	688	625	61.1	5.52	47.1	7.75	-75.5		557	0.050	3.5
V01K04	Rush Creek	105	0.55	08/18/2009 10:35	13.03			18.5	1.94	41	7.09	-41		694	0.086	5.6
V01K04	Rush Creek	105	0.55	09/01/2009 10:45	15.17	367	298	74.3	7.45	45.1	7.67	-74.7		1620	0.074	2.3
V01K04	Rush Creek Median	105	0.55		18.7			74.3	6.65		7.67			694	0.074	3.0
V01W18	Scioto River	18.3	234.39	02/10/2009 08:35	1.29			87.0	12.26	41	7.57	-64.5		3560	0.054	2.0
V01W18	Scioto River	18.3	234.39	03/11/2009 08:45	6.38			87.0	10.71	57.4	7.48	-52.8		3400	0.050	2.0
V01W18	Scioto River	18.3	234.39	04/08/2009 08:30	4.32			85.0	11.05	45	7.73	-59.8		676	0.050	2.0
V01W18	Scioto River	18.3	234.39	05/21/2009 08:00	11.15			89.9	9.85	46	7.67	-61.8		200	0.050	2.0
V01W18	Scioto River	18.3	234.39	06/08/2009 08:00										255	0.050	2.0
V01W18	Scioto River	18.3	234.39	06/22/2009 09:00	20.12			80.5	7.30	41	7.71	-69.7		270	0.050	2.0
V01W18	Scioto River	18.3	234.39	06/30/2009 10:35												
V01W18	Scioto River	18.3	234.39	06/30/2009 10:54												
V01W18	Scioto River	18.3	234.39	07/13/2009 08:40	17.14			60.4	5.80	35.9	7.51	-57.3		200	0.056	2.0
V01W18	Scioto River	18.3	234.39	07/29/2009 08:40	19.5			54.0	4.94	43	7.40	-67.1		200	0.050	2.0
V01W18	Scioto River	18.3	234.39	08/03/2009 08:35	16.38			57.5	5.61	47	7.44	-57.1		200	0.050	2.0
V01W18	Scioto River	18.3	234.39	08/17/2009 08:40	19.62			53.2	4.86	45	7.40	-57.8		200	0.050	2.0
V01W18	Scioto River	18.3	234.39	08/31/2009 08:40	13.11			56.4	5.92	43	7.36	-57.1		200	0.050	2.0
V01W18	Scioto River	18.3	234.39	09/22/2009 08:25	17.29	841		56.0	5.36	36.9	7.46	-29.8		200	0.050	2.0
V01W18	Scioto River Median	18.3	234.39		17.22			57.0	5.71		7.45			200	0.050	2.0
V01W19	Scioto River	28	231.86	06/22/2009 08:40	18.26			83.1	7.82	42	7.75	-71		200	0.050	2.0
V01W19	Scioto River	28	231.86	07/13/2009 08:30	16.38			87.9	8.57	38	7.65	-66		200	0.050	2.0
V01W19	Scioto River	28	231.86	08/03/2009 08:25	16.25			76.5	7.51	49.2	7.76	-74.2		200	0.050	2.0
V01W19	Scioto River	28	231.86	08/17/2009 08:25	20.38			71.6	6.44	47	7.78	-78		200	0.055	2.0
V01W19	Scioto River	28	231.86	08/31/2009 08:30	13.77			78.9	8.14	46	7.82	-80.9		200	0.050	2.0
V01W19	Scioto River Median	28	231.86		16.38			78.9	7.82		7.76			200	0.050	2.0
201834	Scioto River	49	226.30	06/22/2009 09:40	19.3			83.0	7.63	42	7.78	-72.6		958	0.105	2.0
201834	Scioto River	49	226.30	07/13/2009 09:20	17.09			63.7	6.13	34.9	7.92	-79.7		908	0.110	2.0
201834	Scioto River	49	226.30	08/03/2009 09:10	16.96			64.5	6.21	47	8.06	-89.4		603	0.052	2.0
201834	Scioto River	49	226.30	08/17/2009 09:30	22.67			50.7	4.36	45	7.94	-87		971	0.146	2.1
201834	Scioto River	49	226.30	08/31/2009 09:15	13.22			65.3	6.82	44	8.02	-90.5		267	0.072	2.0
201834	Scioto River Median	49	226.30		17.09			64.5	6.21		7.94			908	0.105	2.0
V01P06	Scioto River	62	224.20	06/22/2009 10:00	20.65			81.5	7.30	42	7.78	-73.4		1690	0.073	2.0
V01P06	Scioto River	62	224.20	07/13/2009 09:40	20.4			73.4	6.61	36.9	7.96	-83.2		1620	0.106	2.3
V01P06	Scioto River	62	224.20	08/03/2009 09:30	20.7			61.5	5.51	48.2	8.06	-90		1500	0.050	2.4
V01P06	Scioto River	62	224.20	08/17/2009 09:50	25.4			59.9	4.90	46	8.03	-92		1490	0.087	2.8
V01P06	Scioto River	62	224.20	08/31/2009 09:30	16.88			58.5	5.65	44	7.96	-88.5		837	0.117	2.1
V01P06	Scioto River Median	62	224.20		20.65			61.5	5.65		7.96			1500	0.087	2.3
V01W20	Scioto River	67	223.05	06/22/2009 10:15	21.52			82.0	7.21	43	7.84	-76.1		1690	0.066	2.2
V01W20	Scioto River	67	223.05	07/13/2009 09:55	20.5			78.1	7.01	38	8.03	-87.2		2180	0.107	2.4
V01W20	Scioto River	67	223.05	08/03/2009 09:50	20.1			71.5	6.46	49.2	8.11	-93		2130	0.050	2.7
V01W20	Scioto River	67	223.05	08/17/2009 10:00	24.92			72.1	5.96	47	8.03	-92.4		1720	0.086	3.0
V01W20	Scioto River	67	223.05	08/31/2009 09:40	15.69			67.9	6.73	45	7.96	-88.5		1350	0.086	2.2
V01W20	Scioto River Median	67	223.05		20.5			72.1	6.73		8.03			1720	0.080	2.4
610770	Scioto River	117	216.67	06/22/2009 11:35	22.46			85.4	7.38	43	7.92	-80.6		1290	0.050	2.0
610770	Scioto River	117	216.67	07/13/2009 11:20	20.17			70.1	6.34	36.9	8.02	-86.1		1100	0.053	2.3
610770	Scioto River	117	216.67	08/03/2009 11:05	20.38			66.3	5.96	48.2	8.10	-92.1		1390	0.050	2.5
610770	Scioto River	117	216.67	08/17/2009 11:20	24.3			63.9	5.32	47	8.05	-92.4		1150	0.052	3.0
610770	Scioto River	117	216.67	08/31/2009 10:55	16.22			71.9	7.05	46	8.10	-95.2		637	0.050	2.2
610770	Scioto River Median	117	216.67		20.38			70.1	6.34		8.05			1150	0.050	2.3
V01S05	Scioto River	160	212.47	02/10/2009 09:35	2.11			91.5	12.60	41	7.57	-64.6		3630	0.074	2.4
V01S05	Scioto River	160	212.47	03/11/2009 09:35	7.84			94.0	11.15	55.2	7.51	-53.8		4290	0.050	2.3
V01S05	Scioto River	160	212.47	04/08/2009 09:35	4.57			90.3	11.63	45	7.92	-69.6		1110	0.050	2.0
V01S05	Scioto River	160	212.47	05/06/2009 09:55	13.81			91.4	9.43	47	7.90	-73.5		629	0.079	2.0
V01S05	Scioto River	160	212.47	05/21/2009 08:45										874	0.050	2.0
V01S05	Scioto River	160	212.47	06/08/2009 08:56										1290	0.050	2.0
V01S05	Scioto River	160	212.47	06/22/2009 11:20	21.87			79.3	6.94	34.9	7.90	-89.5		909	0.158	2.0
V01S05	Scioto River	160	212.47	06/30/2009 13:43									230	909	0.060	2.1
V01S05	Scioto River	160	212.47	06/30/2009 14:05												
V01S05	Scioto River	160	212.47	06/30/2009 14:37												
V01S05	Scioto River	160	212.47	07/13/2009 10:45	21.54			84.6	7.44	45	8.15	-102.6		782	0.051	2.3
V01S05	Scioto River	160	212.47	07/29/2009 09:45	23.29			84.4	7.19	43	8.06	-103.4		786	0.050	2.4
V01S05	Scioto River	160	212.47	08/03/2009 10:50	21.87	912		86.1	7.53	46	8.14	-101.6		829	0.050	2.6
V01S05	Scioto River	160	212.47	08/17/2009 10:55	25.39			65.5	5.36	46	8.06	-102		580	0.050	2.8
V01S05	Scioto River	160	212.47	08/31/2009 12:00										414	0.050	2.1
V01S05	Scioto River	160	212.47	09/22/2009 09:20	19.54	861		51.9	4.75	35.9	7.96	-56.3		226	0.050	2.0
V01S05	Scioto River Median	160	212.47		21.87			84.4	7.19		8.06			786	0.050	2.1
610760	Scioto River	170	210.07	06/22/2009 10:35	22.32			79.5	6.88	34.9	7.94	-92.1		415	0.106	2.0

Station	River or Stream	DA	RM	Date/Time	Temperature	CorrCond	UncorrCond	D.O. Sat	D.O. conc	D.O. chg	pH	pH mv	Alkalinity	Aluminum	Ammonia	Arsenic
610760	Scioto River	170	210.07	07/13/2009 10:15	21.57			76.1	6.69	44	8.02	-95.4		236	0.064	2.1
610760	Scioto River	170	210.07	08/03/2009 10:25	21.69	925		103.3	9.06	47	8.17	-103.7		327	0.050	2.6
610760	Scioto River	170	210.07	08/17/2009 10:25	24.65			85.6	7.09	48.2	8.10	-103.5		200	0.082	2.7
610760	Scioto River	170	210.07	08/31/2009 11:10										250	0.077	2.0
610760	Scioto River Median	170	210.07		22.005			82.6	6.99		8.06			250	0.077	2.1
V01W23	Scioto River	178	207.26	06/22/2009 09:20	22.5			74.4	6.42	34.9	7.88	-87.9		495	0.127	2.0
V01W23	Scioto River	178	207.26	07/13/2009 09:05	20.19			63.7	5.75	43	7.86	-86.7		200	0.050	2.4
V01W23	Scioto River	178	207.26	08/03/2009 09:15	19.75	849		60.9	5.55	44	7.86	-86.5		380	0.050	2.9
V01W23	Scioto River	178	207.26	08/17/2009 09:15	23.54			45.7	3.88	45	7.84	-89.7		433	0.124	3.3
V01W23	Scioto River	178	207.26	08/31/2009 11:00										200	0.083	2.2
V01W23	Scioto River Median	178	207.26		21.345			62.3	5.65		7.86			380	0.083	2.4
V01S11	Scioto River	223	203.36	06/22/2009 09:10	21.54			74.3	6.53	34.9	7.82	-85.5		678	0.098	2.0
V01S11	Scioto River	223	203.36	07/13/2009 08:35	19.92			66.5	6.03	43	8.00	-93.5		200	0.063	2.6
V01S11	Scioto River	223	203.36	08/03/2009 08:55	19.52	635		66.9	6.13	44	8.00	-93.7		350	0.050	3.2
V01S11	Scioto River	223	203.36	08/17/2009 08:55	23.75			60.5	5.11	46	8.09	-102.6		331	0.086	3.7
V01S11	Scioto River	223	203.36	08/31/2009 10:35										277	0.054	2.4
V01S11	Scioto River Median	223	203.36		20.73			66.7	6.08		8.00			331	0.063	2.6
V01S23	Scioto River	258	196.12	02/10/2009 10:25	0.05			87.5	12.76	40	7.67	-69.5		2120	0.091	2.0
V01S23	Scioto River	258	196.12	03/11/2009 10:15	7.76			89.4	10.63	53.2	7.67	-62.6		3740	0.050	2.2
V01S23	Scioto River	258	196.12	04/08/2009 10:15	4.84			88.6	11.35	45	7.92	-69.9		1570	0.061	2.0
V01S23	Scioto River	258	196.12	05/07/2009 09:00	13.31			82.3	8.59	46	7.80	-79.4		727	0.050	2.0
V01S23	Scioto River	258	196.12	05/21/2009 09:32										973	0.050	2.0
V01S23	Scioto River	258	196.12	06/08/2009 09:39										1500	0.050	2.0
V01S23	Scioto River	258	196.12	06/23/2009 09:50	23.5			72.4	6.13	34.9	7.86	-86.9		712	0.064	2.0
V01S23	Scioto River	258	196.12	07/14/2009 09:20	21			62.2	5.53	42	7.96	-93.4		716	0.050	3.4
V01S23	Scioto River	258	196.12	07/29/2009 10:40	23.64			56.7	4.80	42	7.82	-90.6		923	0.052	4.0
V01S23	Scioto River	258	196.12	08/04/2009 09:55	22.15	907		59.2	5.15	44	7.90	-90.2		771	0.050	3.7
V01S23	Scioto River	258	196.12	08/18/2009 09:25	24.25			51.5	4.30	44	7.92	-93.2		742	0.050	4.9
V01S23	Scioto River	258	196.12	09/01/2009 09:20	17.03			57.0	5.50	45	7.76	-85.5		1000	0.068	3.2
V01S23	Scioto River	258	196.12	09/02/2009 09:30												
V01S23	Scioto River	258	196.12	09/22/2009 10:05	19.54	765		49.4	4.53	34.9	7.84	-50		402	0.050	2.7
V01S23	Scioto River Median	258	196.12		21.58			58.1	5.33		7.85			757	0.050	3.0
V01W24	Scioto River	262	192.21	06/23/2009 10:20	22.95			73.5	6.30	34.9	7.86	-86.5		1170	0.076	2.0
V01W24	Scioto River	262	192.21	07/14/2009 09:45	20.47			74.0	6.65	44	8.13	-101.5		789	0.050	3.4
V01W24	Scioto River	262	192.21	08/04/2009 10:20	21.75	876		69.5	6.09	44	7.90	-90		1220	0.050	4.3
V01W24	Scioto River	262	192.21	08/18/2009 09:50	23.92			52.5	4.42	44	7.80	-87.1		1070	0.050	5.0
V01W24	Scioto River	262	192.21	09/01/2009 09:50	16.67			69.0	6.69	46	7.78	-86.4		1240	0.076	3.2
V01W24	Scioto River Median	262	192.21		21.75			69.5	6.30		7.86			1170	0.050	3.4
201831	Scioto River	379	186.00	06/23/2009 11:10	22.89			70.8	6.07	43	7.67	-68.6		1440	0.101	2.0
201831	Scioto River	379	186.00	07/14/2009 10:00	20.28			85.6	7.73	45	8.22	-106.4		1060	0.050	3.6
201831	Scioto River	379	186.00	08/04/2009 10:35	21.29	858		60.7	5.38	44	7.94	-91.9		1500	0.050	4.4
201831	Scioto River	379	186.00	08/18/2009 10:10	23.65			49.9	4.21	44	7.90	-92		724	0.050	5.6
201831	Scioto River	379	186.00	09/01/2009 10:00	16.28			63.0	6.17	45	7.76	-84.6		1150	0.068	2.7
201831	Scioto River Median	379	186.00		21.29			63.0	6.07		7.90			1150	0.050	3.6
V01W15	Scioto River	407	179.05	06/24/2009 08:45	23.3			75.4	6.42	43	7.48	-57.8		1270		2.0
V01W15	Scioto River	407	179.05	07/15/2009 09:05	20.38			85.5	7.69	39	7.96	-83.7		1040	0.050	3.7
V01W15	Scioto River	407	179.05	08/05/2009 09:15										972	0.050	4.7
V01W15	Scioto River	407	179.05	08/19/2009 08:45	23.69			50.2	4.23	44	7.94	-86.9		1010	0.050	6.4
V01W15	Scioto River	407	179.05	09/02/2009 08:55	16.37			63.2	6.19	44	7.55	-67.7		1710	0.084	2.8
V01W15	Scioto River Median	407	179.05		21.84			69.3	6.31		7.75			1040	0.050	3.7
601280	Scioto River	567	169.25	02/10/2009 12:10	0.18			89.0	12.94	40	7.73	-71.5		2590	0.154	2.0
601280	Scioto River	567	169.25	03/11/2009 12:15	7.69			77.5	9.23	51.2	7.63	-60		3760	0.073	2.3
601280	Scioto River	567	169.25	04/08/2009 12:15	6.46			88.5	10.88	45	8.00	-73.7		2500	0.268	2.0
601280	Scioto River	567	169.25	05/21/2009 11:28										1000	0.050	2.0
601280	Scioto River	567	169.25	05/27/2009 09:45	21.72			94.3	8.27	46	7.86	-83.6		910	0.050	2.0
601280	Scioto River	567	169.25	06/08/2009 11:33										1110	0.050	2.0
601280	Scioto River	567	169.25	06/24/2009 09:40	23.04			68.6	5.88	43	7.67	-68.7		1680	0.072	2.2
601280	Scioto River	567	169.25	07/15/2009 09:55	20.78			145.1	12.96	47	8.59	-117.6		241	0.050	3.2
601280	Scioto River	567	169.25	07/30/2009 09:55	21.85			92.4	8.07	43	8.01	-100.9		814	0.050	3.7
601280	Scioto River	567	169.25	08/05/2009 10:00	21.16	935	867	66.1	5.86	48.2	7.93	-84		908	0.050	4.2
601280	Scioto River	567	169.25	08/19/2009 09:45	23.78	984		46.7	3.94	44	7.80	-79.1		781	0.134	5.5
601280	Scioto River	567	169.25	09/02/2009 09:40	17.15	488		62.2	5.98	45	7.61	-71		1380	0.065	2.5
601280	Scioto River	567	169.25	09/02/2009 15:20												
601280	Scioto River	567	169.25	09/22/2009 11:55	20.56	821		63.5	5.69	34.9	7.88	-53		755	0.050	2.6
601280	Scioto River Median	567	169.25		21.44			67.4	5.93		7.87			909	0.050	2.6
V01W27	Silver Creek	11.3	2.32	06/22/2009 11:55	20.63			98.5	8.84	45	8.11	-91.2		256	0.050	2.0
V01W27	Silver Creek	11.3	2.32	07/13/2009 11:10	17.71			46.4	4.42	40	7.98	-92.5		1790	0.050	4.4
V01W27	Silver Creek	11.3	2.32	08/03/2009 11:15	18.29	538		61.0	5.73	43	8.19	-104.2		200	0.538	4.8
V01W27	Silver Creek	11.3	2.32	08/17/2009 11:15	22.31			21.3	1.86	45	7.86	-91.4		200	1.700	7.8
V01W27	Silver Creek Median	11.3	2.32													
V01S07	Taylor Creek	12.7	4.43	06/22/2009 10:20	19.42			86.0	7.90	34.9	8.07	-98.4			0.050	
V01S07	Taylor Creek	12.7	4.43	07/13/2009 10:00	17.75			73.4	6.96	43	8.05	-95.7			0.051	
V01S07	Taylor Creek	12.7	4.43	08/03/2009 10:05	18.46	705		70.3	6.57	43	8.06	-97			0.050	
V01S07	Taylor Creek	12.7	4.43	08/17/2009 10:10	22.37			56.0	4.84	45	7.94	-95.5			0.097	
V01S07	Taylor Creek	12.7	4.43	08/31/2009 12:30											0.059	
V01S07	Taylor Creek Median	12.7	4.43		18.94			71.9	6.77		8.06				0.051	
V01P01	Taylor Creek	16.3	0.76	02/10/2009 10:00	3.83			95.5	12.56	42	7.69	-70.9		1470	0.122	2.0

Station	River or Stream	DA	RM	Date/Time	Temperature	CorrCond	UncorrCond	D.O. Sat	D.O. conc	D.O. chg	pH	pH mv	Alkalinity	Aluminum	Ammonia	Arsenic
V01P01	Taylor Creek	16.3	0.76	03/11/2009 09:45	8.39			93.5	10.94	55.2	7.78	-68		2840	0.051	2.0
V01P01	Taylor Creek	16.3	0.76	04/08/2009 09:45	4.4			91.0	11.77	45	8.07	-77.5		425	0.185	2.0
V01P01	Taylor Creek	16.3	0.76	05/06/2009 10:20	14.27			91.3	9.34	47	7.98	-78.6		200	0.050	2.0
V01P01	Taylor Creek	16.3	0.76	05/21/2009 08:55										200	0.096	2.0
V01P01	Taylor Creek	16.3	0.76	06/08/2009 09:07										200	0.235	2.0
V01P01	Taylor Creek	16.3	0.76	06/22/2009 11:10	21.56			79.9	7.03	34.9	7.92	-90.4		200	1.180	2.0
V01P01	Taylor Creek	16.3	0.76	06/30/2009 15:12									239	200	0.942	2.6
V01P01	Taylor Creek	16.3	0.76	06/30/2009 15:23												
V01P01	Taylor Creek	16.3	0.76	06/30/2009 15:45												
V01P01	Taylor Creek	16.3	0.76	07/13/2009 11:00	18.3			78.5	7.36	44	8.03	-95.7		200	0.120	3.4
V01P01	Taylor Creek	16.3	0.76	07/29/2009 10:00	21.54			24.0	2.10	40	7.65	-80.5		200	0.050	3.9
V01P01	Taylor Creek	16.3	0.76	08/03/2009 11:00	18.95	776		59.7	5.53	43	8.05	-96.6		200	0.119	3.8
V01P01	Taylor Creek	16.3	0.76	08/17/2009 11:05	23.77			30.7	2.58	43	7.76	-85.5		361	0.105	3.6
V01P01	Taylor Creek	16.3	0.76	08/31/2009 11:45										200	0.051	2.2
V01P01	Taylor Creek	16.3	0.76	09/22/2009 09:30	19.92	838		43.4	3.94	33.9	8.10	-64.9		200	0.086	3.2
V01P01	Taylor Creek Median	16.3	0.76		19.92			59.7	5.53		7.98			200	0.105	2.6
300688	Wallace Fork	4.8	0.23	06/22/2009 09:25	19.98			81.8	7.42	42	7.71	-69.5			0.050	
300688	Wallace Fork	4.8	0.23	07/13/2009 09:00	16.43			71.6	7.00	35.9	7.84	-75.9			0.169	
300688	Wallace Fork	4.8	0.23	08/03/2009 08:55	15.89			64.5	6.38	47	7.88	-80.1			0.050	
300688	Wallace Fork	4.8	0.23	08/17/2009 09:05	22.95			31.2	2.69	43	7.76	-76.7			0.088	
300688	Wallace Fork	4.8	0.23	09/02/2009 11:51												
300688	Wallace Fork Median	4.8	0.23		18.205			68.1	6.69		7.80				0.069	
V01W31	Wildcat Creek	4.3	6.72	06/23/2009 09:15	20.86			76.5	6.84	34.9	7.78				0.050	
V01W31	Wildcat Creek	4.3	6.72	07/14/2009 08:45	16.31			70.5	6.90	43	7.73				0.050	
V01W31	Wildcat Creek	4.3	6.72	08/04/2009 09:15	20.01	640		57.4	5.19	43	7.73	-81.5			0.050	
V01W31	Wildcat Creek	4.3	6.72	08/18/2009 08:48	21.14			58.7	5.21	44	7.71				0.050	
V01W31	Wildcat Creek	4.3	6.72	09/01/2009 08:15	13.64			96.1	9.97	47	8.13				0.071	
V01W31	Wildcat Creek Median	4.3	6.72		20.01			70.5	6.84		7.73				0.050	
300692	Wildcat Creek	8.4	4.00	06/23/2009 09:25	20.13			89.3	8.09	35.9	7.90	-88.6			0.050	
300692	Wildcat Creek	8.4	4.00	07/14/2009 08:55	17.96			87.1	8.25	45	8.06	-97.5			0.050	
300692	Wildcat Creek	8.4	4.00	08/04/2009 09:25	19.53	676		66.0	6.05	44	7.82	-85.5			0.050	
300692	Wildcat Creek	8.4	4.00	08/18/2009 09:00	22.47			64.3	5.55	44	7.90	-92.7			0.050	
300692	Wildcat Creek	8.4	4.00	09/01/2009 08:50	14.27			81.5	8.35	46	7.96	-94.6			0.050	
300692	Wildcat Creek Median	8.4	4.00		19.53			81.5	8.09		7.90				0.050	
V01W32	Wildcat Creek	22.2	0.49	06/23/2009 09:35	21.25			81.0	7.17	35.9	7.90	-89.4		743	0.075	2.0
V01W32	Wildcat Creek	22.2	0.49	07/14/2009 09:05	17.69			85.5	8.13	44	7.98	-93.2		281	0.050	2.6
V01W32	Wildcat Creek	22.2	0.49	08/04/2009 09:40	19.85	718		80.4	7.30	45	7.96	-92.6		1250	0.050	3.8
V01W32	Wildcat Creek	22.2	0.49	08/18/2009 09:10	21.94			58.5	5.11	44	7.88	-91.2		319	0.050	4.2
V01W32	Wildcat Creek	22.2	0.49	09/01/2009 09:05	15.22			81.8	8.18	46	7.94	-94.7		642	0.050	4.0
V01W32	Wildcat Creek Median	22.2	0.49		19.85			81.0	7.30		7.94			642	0.050	3.8
300691	Wolf Creek	12	0.51	06/22/2009 09:30	20.44			84.0	7.55	34.9	8.00	-94.2			0.050	
300691	Wolf Creek	12	0.51	07/13/2009 09:15	17.78			26.3	2.50	39	7.61	-72.9			0.163	
300691	Wolf Creek	12	0.51	08/03/2009 09:20	18.3	1054		31.8	2.99	40	7.65	-75.5			0.116	
300691	Wolf Creek	12	0.51	08/17/2009 09:20	22.2			23.2	2.01	43	7.55	-75			0.188	
300691	Wolf Creek	12	0.51	08/31/2009 10:45											0.103	
300691	Wolf Creek Median	12	0.51		19.37			29.1	2.75		7.63				0.116	

Station	River or Stream	DA	RM	Date/Time	Barium	Cadmium	Calcium	Chloride	Chlorophyll_a	Chromium	COD	Conductivity	Copper	E.coli	Hardness, Total	Iron	Lead
V02G07	Battle Run	9.4	0.25	06/24/2009 09:30				37.3			20	709					
V02G07	Battle Run	9.4	0.25	07/15/2009 09:40				54.2			20	817					
V02G07	Battle Run	9.4	0.25	08/05/2009 09:50				74.1			20	912					
V02G07	Battle Run	9.4	0.25	08/19/2009 09:25				65.5			20	871					
V02G07	Battle Run	9.4	0.25	09/02/2009 09:30				55.2			26	782					
V02G07	Battle Run Median	9.4	0.25					55.2			20	817					
300697	Big Swale	11.6	0.20	06/23/2009 10:15				20.4			25	538					
300697	Big Swale	11.6	0.20	09/01/2009 10:00				31.3			37	609					
V01S20	Cottonwood Ditch	11.3	4.10	06/22/2009 11:00				35.8			20	639					
V01S20	Cottonwood Ditch	11.3	4.10	07/13/2009 10:45				87.4			25	1070					
V01S20	Cottonwood Ditch	11.3	4.10	08/03/2009 10:30				114.0			28	1370					
V01S20	Cottonwood Ditch	11.3	4.10	08/17/2009 10:40				118.0			47	1380					
V01S20	Cottonwood Ditch	11.3	4.10	08/31/2009 10:20				114.0			36	1410					
V01S20	Cottonwood Ditch	11.3	4.10	09/02/2009 10:26					17.000								
V01S20	Cottonwood Ditch Median	11.3	4.10					114.0			28	1370					
V01S08	Cottonwood Ditch	19.3	0.68	02/10/2009 09:10	59	0.20	69	17.0		4.5	21	465	7.6	650	238	6700	3.9
V01S08	Cottonwood Ditch	19.3	0.68	03/11/2009 09:05	68	0.28	68	15.3		6.0	27	509	17.7		244	7820	6.8
V01S08	Cottonwood Ditch	19.3	0.68	04/08/2009 09:05	42	0.20	89	24.6		2.0	20	680	2.8		321	1220	2.0
V01S08	Cottonwood Ditch	19.3	0.68	05/06/2009 09:15	56	0.20	116	27.8		2.0	20	798	4.7	220	413	2320	2.0
V01S08	Cottonwood Ditch	19.3	0.68	05/21/2009 08:20	69	0.20	126	31.8		2.8			5.3	90	463	4140	2.5
V01S08	Cottonwood Ditch	19.3	0.68	06/08/2009 08:27	64	0.20	135	25.5		2.3			4.7	360	485	3190	2.0
V01S08	Cottonwood Ditch	19.3	0.68	06/22/2009 10:35	60	0.20	118	25.4		2.0	20	850	3.6	1600	431	1940	2.0
V01S08	Cottonwood Ditch	19.3	0.68	06/30/2009 11:30					12.800								
V01S08	Cottonwood Ditch	19.3	0.68	06/30/2009 12:18					161.000								
V01S08	Cottonwood Ditch	19.3	0.68	07/13/2009 10:15	73	0.20	107	56.5		2.4	27	941	5.2	1200	428	3050	2.2
V01S08	Cottonwood Ditch	19.3	0.68	07/29/2009 09:10	78	0.20	113	78.9		2.2	20	1100	6.0	800	455	2420	2.0
V01S08	Cottonwood Ditch	19.3	0.68	08/03/2009 10:05	81	0.20	109	75.6		3.0	25	1070	6.4	340	437	3680	2.7
V01S08	Cottonwood Ditch	19.3	0.68	08/17/2009 10:20	76	0.20	117	98.0		2.0	27	1230	4.6	610	486	1260	2.0
V01S08	Cottonwood Ditch	19.3	0.68	08/31/2009 10:00	74	0.20	106	86.1		2.0	31	1110	4.7	340	438	1890	2.0
V01S08	Cottonwood Ditch	19.3	0.68	09/22/2009 08:50	68	0.20	121	103.0		2.0	32	1310	3.8	150	504	446	2.0
V01S08	Cottonwood Ditch Median	19.30	0.68		73	0.20	117	75.6		2.2	27	1100	4.7	404	455	2420	2.0
300689	Dunlap Creek	8.9	0.10	06/22/2009 09:50				21.2			20	909					
300689	Dunlap Creek	8.9	0.10	07/13/2009 09:30				16.3			22	700					
300689	Dunlap Creek	8.9	0.10	08/03/2009 09:20				26.0			24	704					
300689	Dunlap Creek	8.9	0.10	08/17/2009 09:40				28.1			38	860					
300689	Dunlap Creek	8.9	0.10	08/31/2009 09:20				27.7			34	855					
300689	Dunlap Creek Median	8.90	0.10					26.0			24	855					
300701	Elliot Run	2.5	1.25	06/24/2009 09:05				36.3			20	625					
300701	Elliot Run	2.5	1.25	07/15/2009 09:15				114.0			24	796					
300701	Elliot Run	2.5	1.25	08/05/2009 09:50				65.6			32	656					
300701	Elliot Run	2.5	1.25	08/19/2009 09:15				479.0			44	2130					
300701	Elliot Run	2.5	1.25	09/02/2009 09:30				128.0			37	838					
300701	Elliot Run Median	2.5	1.25					114.0			32	796					
300700	Fulton Creek	12.5	16.30	06/24/2009 09:25				25.5			22	626					
300700	Fulton Creek	12.5	16.30	07/15/2009 09:30				32.0			20	582					
300700	Fulton Creek	12.5	16.30	08/05/2009 10:10				31.3			33	566					
300700	Fulton Creek	12.5	16.30	08/19/2009 09:35				33.5			34	575					
300700	Fulton Creek	12.5	16.30	09/02/2009 09:55				34.2			36	605					
300700	Fulton Creek Median	12.5	16.30					32.0			33	582					
V02S07	Fulton Creek	24.9	10.35	06/24/2009 09:15				25.6			20	654					
V02S07	Fulton Creek	24.9	10.35	07/15/2009 09:20				31.2			20	830					
V02S07	Fulton Creek	24.9	10.35	08/05/2009 10:00				29.2			20	749					
V02S07	Fulton Creek	24.9	10.35	08/19/2009 09:25				30.1			20	818					
V02S07	Fulton Creek	24.9	10.35	09/02/2009 09:40				29.6			20	678					
V02S07	Fulton Creek	24.9	10.35	09/02/2009 10:40					2.600								
V02S07	Fulton Creek Median	24.9	10.35					29.6			20	749					
V02S06	Richwood WWTP	25.2	9.50	06/24/2009 09:40				135.0			39	1330		44000			
V02S06	Richwood WWTP	25.2	9.50	07/15/2009 09:45	80	0.20	109	155.0		2.0	20	1340	2.5	10	433	50	2.0
V02S06	Richwood WWTP	25.2	9.50	08/05/2009 10:20	77	0.20	107	131.0		2.0	21	1250	3.0	10	420	50	2.0
V02S06	Richwood WWTP	25.2	9.50	08/19/2009 10:00	77	0.20	114	132.0		2.0	22	1280	3.2	10	453	50	2.0
V02S06	Richwood WWTP	25.2	9.50	09/02/2009 10:10	81	0.20	109	114.0		2.0	20	1160	3.0	20	420	67	2.0
V02S06	Fulton Creek Median	25.2	9.50		79	0.20	109	132.0		2.0	21	1280	3.0		427	50	2.0
V02S05	Fulton Creek	29	8.70	06/24/2009 09:55	58	0.20	76	37.1		2.0	20	690	2.0		301	239	2.0
V02S05	Fulton Creek	29	8.70	07/15/2009 09:50	74	0.20	97	85.0		2.0	20	1020	2.0		411	204	2.0
V02S05	Fulton Creek	29	8.70	08/05/2009 10:35	65	0.20	90	77.9		2.0	20	967	2.0		373	124	2.0
V02S05	Fulton Creek	29	8.70	08/19/2009 10:15	71	0.20	104	115.0		2.0	22	1170	2.6		424	167	2.0
V02S05	Fulton Creek	29	8.70	09/02/2009 10:25	64	0.20	95	63.3		2.0	21	874	2.0		394	196	2.0
V02S05	Fulton Creek Median	29	8.70		65	0.20	95	77.9		2.0	20	967	2.0		394	196	2.0
V02S04	Fulton Creek	40	6.44	06/24/2009 08:50							20						
V02S04	Fulton Creek	40	6.44	07/15/2009 09:00				70.7			22	994					
V02S04	Fulton Creek	40	6.44	08/05/2009 09:35				65.5			21	936					
V02S04	Fulton Creek	40	6.44	08/19/2009 09:00				94.0			22	1060					
V02S04	Fulton Creek	40	6.44	09/02/2009 09:20				55.2			20	813					
V02S04	Fulton Creek Median	40	6.44					68.1			21	965					
V02S02	Fulton Creek	46.4	1.20	06/24/2009 08:46				28.4			20	609					
V02S02	Fulton Creek	46.4	1.20	07/15/2009 08:46				56.3			20	857					
V02S02	Fulton Creek	46.4	1.20	08/05/2009 09:25				53.5			21	813					

Station	River or Stream	DA	RM	Date/Time	Barium	Cadmium	Calcium	Chloride	Chlorophyll a	Chromium	COD	Conductivity	Copper	E.coli	Hardness, Total	Iron	Lead
V02S02	Fulton Creek	46.4	1.20	08/19/2009 08:45				62.2			33	865					
V02S02	Fulton Creek	46.4	1.20	09/02/2009 09:05				52.1			21	717					
V02S02	<i>Fulton Creek Median</i>	46.4	1.20					53.5			21	813					
V06P08	Fulton Creek	46.9	0.22	02/10/2009 12:45	33	0.20	29	25.3		2.0	20	296	3.7		114	2410	2.0
V06P08	Fulton Creek	46.9	0.22	03/11/2009 12:35	51	0.20	57	40.7		2.0	20	528	4.0	620	229	2360	2.0
V06P08	Fulton Creek	46.9	0.22	04/08/2009 12:35	44	0.20	63	46.1		2.0	20	600	2.5		256	907	2.0
V06P08	Fulton Creek	46.9	0.22	05/21/2009 11:58	60	0.20	83	41.4		2.0			2.0	80	339	109	2.0
V06P08	Fulton Creek	46.9	0.22	05/27/2009 10:05	71	0.20	88	44.7		2.0	20	764	2.0	70	368	57	2.0
V06P08	Fulton Creek	46.9	0.22	06/08/2009 12:06	64	0.20	81	50.2		2.0			2.0	140	351	66	2.0
V06P08	Fulton Creek	46.9	0.22	06/24/2009 08:25	57	0.20	69	27.5		2.0	20	605	2.0	240	271	272	2.0
V06P08	Fulton Creek	46.9	0.22	07/15/2009 08:30	79	0.20	94	52.1		2.0	20	850	2.0	620	399	208	2.0
V06P08	Fulton Creek	46.9	0.22	07/30/2009 10:30	61	0.20	64	53.8		2.0	24	699	2.0	380	271	327	2.0
V06P08	Fulton Creek	46.9	0.22	08/05/2009 09:15	69	0.20	77	47.6		2.0	22	783	2.0	330	328	250	2.0
V06P08	Fulton Creek	46.9	0.22	08/19/2009 08:30	83	0.20	94	53.3		2.0	24	907	2.0	1200	420	433	2.0
V06P08	Fulton Creek	46.9	0.22	09/02/2009 08:50	64	0.20	83	53.5		2.0	20	752	2.7	150	331	260	2.0
V06P08	Fulton Creek	46.9	0.22	09/02/2009 12:15					1.800								
V06P08	Fulton Creek	46.9	0.22	09/22/2009 12:15	71	0.20	91	51.8		2.0	24	829	2.0	200	371	209	2.0
V06P08	<i>Fulton Creek Median</i>	46.9	0.22		67	0.20	83	51.0		2.0	21	774	2.0	236	345	230	2.0
300698	Goose Creek		0.30	06/25/2009 09:55	47	0.20	108	60.3		2.0	20	880	2.0		406	277	2.0
300698	Goose Creek		0.30	07/16/2009 10:00	54	0.20	112	68.5		2.0	20	920	2.0		432	827	2.0
300698	Goose Creek		0.30	08/06/2009 10:00	57	0.20	105	72.2		2.0	20	885	2.0		398	804	2.0
300698	Goose Creek		0.30	08/20/2009 09:50	33	0.20	46	79.9		2.0	20	506	3.0		156	169	3.6
300698	Goose Creek		0.30	09/03/2009 09:45	55	0.20	103	59.5		2.0	20	818	2.5		377	952	2.0
V02P11	Honey Creek	7.3	0.10	06/25/2009 08:45				55.2			160	751					
V02P11	Honey Creek	7.3	0.10	07/16/2009 08:50				52.5			20	882					
V02P11	Honey Creek	7.3	0.10	08/06/2009 08:55				51.7			20	853					
V02P11	Honey Creek	7.3	0.10	08/20/2009 08:35				32.0			68	471					
V02P11	Honey Creek	7.3	0.10	09/03/2009 08:35				60.7			20	914					
V02P11	<i>Honey Creek Median</i>	7.3	0.10					52.5			20	853					
V02G05	Kebler Run	14.3	0.87	02/10/2009 12:30	60	0.20	50	35.9		2.4	20	410	3.5	250	187	3350	2.0
V02G05	Kebler Run	14.3	0.87	03/11/2009 12:25	59	0.20	75	41.6		2.0	20	632	2.0		294	822	2.0
V02G05	Kebler Run	14.3	0.87	04/08/2009 12:25	61	0.20	83	42.8		2.0	20	691	2.0		327	108	2.0
V02G05	Kebler Run	14.3	0.87	05/21/2009 11:46	71	0.20	95	35.5		2.0			2.0	100	377	117	2.0
V02G05	Kebler Run	14.3	0.87	06/08/2009 11:51	69	0.20	93	38.6		2.0			2.0	120	389	183	2.0
V02G05	Kebler Run	14.3	0.87	06/24/2009 10:05	75	0.20	93	33.3		2.0	20	726	2.0	520	364	138	2.0
V02G05	Kebler Run	14.3	0.87	07/15/2009 10:20	62	0.20	84	31.3		2.0	20	724	2.0	480	370	284	2.0
V02G05	Kebler Run	14.3	0.87	07/30/2009 10:15	60	0.20	82	35.5		2.0	20	735	2.0	600	353	369	2.0
V02G05	Kebler Run	14.3	0.87	08/05/2009 10:15	65	0.20	90	33.8		2.0	20	757	2.0	220	373	280	2.0
V02G05	Kebler Run	14.3	0.87	08/19/2009 10:05	71	0.20	100	27.1		2.0	20	768	2.0	240	427	570	2.0
V02G05	Kebler Run	14.3	0.87	09/02/2009 10:10	65	0.20	87	34.4		2.0	20	679	2.0	130	353	266	2.0
V02G05	Kebler Run	14.3	0.87	09/02/2009 14:15					0.200								
V02G05	Kebler Run	14.3	0.87	09/22/2009 12:05	68	0.20	99	29.8		2.0	20	783	2.0	250	416	384	2.0
V02G05	<i>Kebler Run Median</i>	14.3	0.87		68	0.20	93	33.8		2.0	20	735	2.0	244	373	280	2.0
V02G02	Little Scioto River	12.8	25.59	06/25/2009 08:40				36.3			20	640					
V02G02	Little Scioto River	12.8	25.59	07/16/2009 08:45				46.3			20	626					
V02G02	Little Scioto River	12.8	25.59	08/06/2009 08:50				58.7			20	694					
V02G02	Little Scioto River	12.8	25.59	08/20/2009 08:40				68.4			20	819					
V02G02	Little Scioto River	12.8	25.59	09/03/2009 08:25				54.7			20	648					
V02G02	<i>Little Scioto River Median</i>	12.8	25.59					54.7			20	648					
V02G01	Little Scioto River	33	19.70	06/25/2009 08:55	51	0.20	78	29.8		2.0	20	600	2.0		285	599	2.0
V02G01	Little Scioto River	33	19.70	07/16/2009 09:00	56	0.20	86	50.9		2.0	20	740	2.0		326	388	2.0
V02G01	Little Scioto River	33	19.70	08/06/2009 09:00	44	0.20	54	34.3		2.0	20	482	2.4		192	419	2.0
V02G01	Little Scioto River	33	19.70	08/20/2009 08:50	48	0.20	55	36.6		2.0	21	475	2.4		203	660	2.0
V02G01	Little Scioto River	33	19.70	09/03/2009 08:40	49	0.20	59	43.0		2.0	20	553	3.3		209	544	2.0
V02G01	<i>Little Scioto River Median</i>	33	19.70		49	0.2	59	36.6		2.0	20	553	2.4		209	544	2.0
V02S01	Little Scioto River	47	11.10	02/10/2009 11:05	46	0.20	46	39.8		2.6	20	403	3.6	170	164	3450	2.4
V02S01	Little Scioto River	47	11.10	03/11/2009 10:35	80	0.20	40	26.4		6.4	20	332	10.8		149	10400	8.7
V02S01	Little Scioto River	47	11.10	04/08/2009 10:50	43	0.20	69	57.6		2.0	20	647	2.0		255	555	2.0
V02S01	Little Scioto River	47	11.10	05/21/2009 10:35	59	0.20	83	35.1		2.0			2.2	150	306	1500	2.0
V02S01	Little Scioto River	47	11.10	05/27/2009 08:30	60	0.20	79	36.3		2.0	20	622	2.3	190	292	1210	2.0
V02S01	Little Scioto River	47	11.10	06/08/2009 10:29	56	0.20	76	31.1		2.0			2.3	370	276	1700	2.0
V02S01	Little Scioto River	47	11.10	06/25/2009 09:25	59	0.20	79	27.4		2.0	20	586	2.3	650	284	1350	2.0
V02S01	Little Scioto River	47	11.10	07/16/2009 09:35	64	0.20	79	36.4		2.0	20	630	2.0	870	300	921	2.0
V02S01	Little Scioto River	47	11.10	07/30/2009 08:30	66	0.20	72	50.4		2.0	20	654	2.4	580	274	858	2.0
V02S01	Little Scioto River	47	11.10	08/06/2009 09:35	55	0.20	57	50.0		2.0	20	519	2.7	500	208	1260	2.0
V02S01	Little Scioto River	47	11.10	08/20/2009 09:25	51	0.20	43	69.0		2.0	20	528	10.8	2400	157	1860	2.0
V02S01	Little Scioto River	47	11.10	09/02/2009 16:50					4.700								
V02S01	Little Scioto River	47	11.10	09/03/2009 09:15	59	0.20	58	37.0		2.0	20	517	4.2	1000	207	1860	2.0
V02S01	Little Scioto River	47	11.10	09/22/2009 10:35	68	0.20	68	85.4		2.0	22	772	3.5	160	252	533	2.0
V02S01	<i>Little Scioto River Median</i>	47	11.10		59	0.20	74	36.7		2.0	20	604	2.4	481	275	1305	2.0
V02S13	Little Scioto River	73	9.24	06/25/2009 10:10				30.0			20	619		550			
V02S13	Little Scioto River	73	9.24	07/16/2009 10:10				46.7			20	734		190			
V02S13	Little Scioto River	73	9.24	08/06/2009 10:20				44.7			20	637		80			
V02S13	Little Scioto River	73	9.24	08/20/2009 09:50				54.2			20	773		980			
V02S13	Little Scioto River	73	9.24	09/03/2009 09:55				46.1			20	715		410			
V02S13	<i>Little Scioto River Median</i>	73	9.24					46.1			20	715		320			
300624	Little Scioto River	86	6.50	06/25/2009 09:46	66	0.20	81	29.9		2.0	20	625	2.7	520	305	1560	2.0

Station	River or Stream	DA	RM	Date/Time	Barium	Cadmium	Calcium	Chloride	Chlorophyll a	Chromium	COD	Conductivity	Copper	E.coli	Hardness, Total	Iron	Lead
300624	Little Scioto River	86	6.50	07/16/2009 09:35	70	0.20	89	53.4		2.0	20	840	2.0	610	354	743	2.0
300624	Little Scioto River	86	6.50	08/06/2009 09:45	71	0.20	72	67.1		2.0	22	782	2.7	220	287	1220	2.0
300624	Little Scioto River	86	6.50	08/20/2009 09:25	29	0.20	28	20.8		2.0	25	316	8.0	2400	99	1150	5.8
300624	Little Scioto River	86	6.50	09/03/2009 09:20	64	0.20	67	44.9		2.0	20	633	3.8	870	254	1960	2.2
300624	Little Scioto River Median	86	6.50		66	0.2	72	44.9		2.0	20	633	2.7	650	287	1220	2.0
V02S11	Marion WWTP	86	6.39	06/25/2009 09:20	33	0.20	78	106.0		2.0	33	1120	3.2		289	70	2.0
V02S11	Marion WWTP	86	6.39	07/16/2009 09:20	26	0.20	75	116.0		2.0	35	1190	4.0		278	88	2.0
V02S11	Marion WWTP	86	6.39	08/06/2009 09:25	24	0.20	69	129.0		2.0	44	1140	3.4		271	64	2.0
V02S11	Marion WWTP	86	6.39	08/20/2009 09:10	16	0.20	47	61.6		2.0	43	694	5.1		167	166	2.0
V02S11	Marion WWTP	86	6.39	09/03/2009 09:10	29	0.20	81	112.0		2.0	31	1100	4.6		297	68	2.0
V02S11	Marion WWTP Median	86	6.39		26	0.2	75	112.0		2.0	35	1120	4.0		278	70	2.0
V02P10	Little Scioto River	86	5.74	06/25/2009 09:10	63	0.20	81	56.5		2.0	20	795	4.5	550	301	2540	2.8
V02P10	Little Scioto River	86	5.74	07/16/2009 09:10	46	0.20	78	100.0		2.0	24	1090	4.4	1700	298	1610	2.0
V02P10	Little Scioto River	86	5.74	08/06/2009 09:15	39	0.20	69	119.0		2.0	28	1080	4.6	240	275	1650	2.0
V02P10	Little Scioto River	86	5.74	08/20/2009 09:00	21	0.20	53	71.9		2.0	47	817	5.8	2400	194	440	2.0
V02P10	Little Scioto River	86	5.74	09/03/2009 09:00	46	0.20	76	92.4		2.0	22	986	5.8	1200	280	1750	2.3
V02P10	Little Scioto River Median	86	5.74		46	0.2	76	92.4		2.0	24	986	4.6	916	280	1650	2.0
V02P07	Little Scioto River	113	0.39	02/10/2009 11:35	41	0.20	47	57.1		2.0	20	486	3.4	590	171	2490	2.0
V02P07	Little Scioto River	113	0.39	03/11/2009 11:25	63	0.20	52	46.5		3.8	20	491	6.9		196	5530	4.6
V02P07	Little Scioto River	113	0.39	04/08/2009 11:35	45	0.20	76	87.1		2.0	20	828	2.4		289	713	2.0
V02P07	Little Scioto River	113	0.39	05/21/2009 10:00	63	0.20	91	72.7		2.7			4.6	350	347	2250	3.6
V02P07	Little Scioto River	113	0.39	05/27/2009 09:15	63	0.20	88	65.4		2.3	20	819	4.1	90	335	1960	3.4
V02P07	Little Scioto River	113	0.39	06/08/2009 11:05	59	0.20	77	53.5		2.3			3.8	430	291	2160	3.4
V02P07	Little Scioto River	113	0.39	06/24/2009 09:00	61	0.20	80	52.9		2.0	20	765	3.3	510	299	1520	2.8
V02P07	Little Scioto River	113	0.39	07/16/2009 08:30	50	0.20	77	84.7		2.0	20	979	2.8	520	299	609	2.0
V02P07	Little Scioto River	113	0.39	07/30/2009 09:25	48	0.20	69	93.5		2.0	20	933	3.5	510	271	963	2.0
V02P07	Little Scioto River	113	0.39	08/06/2009 08:35	43	0.20	68	93.6		2.0	25	930	2.9	240	273	681	2.0
V02P07	Little Scioto River	113	0.39	08/20/2009 08:15	53	0.30	34	32.4		6.2	26	363	14.2	2400	126	4940	12.9
V02P07	Little Scioto River	113	0.39	09/02/2009 16:20					1.900								
V02P07	Little Scioto River	113	0.39	09/03/2009 08:15	47	0.20	74	78.2		2.0	26	864	4.4	690	275	942	2.0
V02P07	Little Scioto River	113	0.39	09/22/2009 11:10	45	0.20	78	89.8		2.0	24	1010	3.7	110	298	341	2.0
V02P07	Little Scioto River Median	113	0.39		52	0.20	77	75.5		2.0	22	897	3.8	389	295	1242	2.4
300690	McCoy Run	8	0.55	06/22/2009 11:25				19.2			154	553					
300690	McCoy Run	8	0.55	07/13/2009 11:10				33.8			30	528					
300690	McCoy Run	8	0.55	08/03/2009 10:50				35.7			20	578					
300690	McCoy Run	8	0.55	08/17/2009 11:10				66.3			29	714					
300690	McCoy Run	8	0.55	08/31/2009 10:45				44.8			29	629					
300690	McCoy Run	8	0.55	09/02/2009 13:23					3.500								
300690	McCoy Run Median	8	0.55					35.7			29	578					
V01K05	McDonald Creek	2.6	9.17	06/23/2009 09:00				24.8			161	659					
V01K05	McDonald Creek	2.6	9.17	07/14/2009 08:15				46.4			20	861					
V01K05	McDonald Creek	2.6	9.17	08/04/2009 08:55				133.0			27	1130					
V01K05	McDonald Creek	2.6	9.17	08/18/2009 08:25				66.1			61	1000					
V01K05	McDonald Creek	2.6	9.17	09/01/2009 08:20				41.4			28	480					
V01K05	McDonald Creek Median	2.6	9.17					46.4			28	861					
V01W34	McDonald Creek	6.3	6.82	06/23/2009 09:05				33.6			25	691					
V01W34	McDonald Creek	6.3	6.82	07/14/2009 08:30				39.0			23	685					
V01W34	McDonald Creek	6.3	6.82	08/04/2009 09:05				43.5			29	645					
V01W34	McDonald Creek	6.3	6.82	08/18/2009 08:35				24.2			30	787					
V01W34	McDonald Creek	6.3	6.82	09/01/2009 08:30				40.9			32	516					
V01W34	McDonald Creek	6.3	6.82	09/02/2009 15:37					186.000								
V01W34	McDonald Creek	6.3	6.82	09/02/2009 15:48					12.000								
V01W34	McDonald Creek Median	6.3	6.82					39.0			29	685					
203089	McDonald Creek	12.3	2.70	06/23/2009 10:00	65	0.20	76	28.7		2.0	25	695	2.1	820	322	353	2.0
203089	McDonald Creek	12.3	2.70	07/14/2009 09:30	74	0.20	79	45.8		2.0	20	810	2.0	200	378	279	2.0
203089	McDonald Creek	12.3	2.70	08/04/2009 10:05	49	0.20	48	31.9		2.0	32	567	3.4	160	235	315	2.0
203089	McDonald Creek	12.3	2.70	08/18/2009 09:40	62	0.20	55	37.5		2.0	35	615	2.0	36	269	269	2.0
203089	McDonald Creek	12.3	2.70	09/01/2009 09:30	43	0.20	47	32.8		2.0	34	440	4.1	410	187	629	2.0
203089	McDonald Creek	12.3	2.70	09/01/2009 16:35					2.700								
203089	McDonald Creek Median	12.3	2.70					32.8			32	615		208			
V02S14	N. Rock Swale Ditch	7.3	2.55	06/25/2009 10:15	51	0.20	81	46.6		2.0	20	765	2.0		322	202	2.0
V02S14	N. Rock Swale Ditch	7.3	2.55	07/16/2009 10:15	81	0.20	105	87.6		2.0	20	1330	2.6		423	1320	2.0
V02S14	N. Rock Swale Ditch	7.3	2.55	08/06/2009 10:30	68	0.20	101	110.0		2.0	25	1290	3.4		433	642	2.0
V02S14	N. Rock Swale Ditch	7.3	2.55	08/20/2009 10:00	29	0.20	38	38.2		2.0	21	458	5.6		140	396	2.0
V02S14	N. Rock Swale Ditch	7.3	2.55	09/03/2009 10:00	87	0.20	53	22.7		4.6	20	459	7.4		231	5830	4.6
V02S14	N. Rock Swale Ditch Median	7.3	2.55		68	0.2	81	46.6		2.0	20	765	3.4		322	642	2.0
V02W15	N. Rock Swale Ditch	10	0.55	06/25/2009 09:50	68	0.20	95	58.3		2.0	20	901	2.0		377	279	2.0
V02W15	N. Rock Swale Ditch	10	0.55	07/16/2009 09:55	87	0.20	107	85.2		2.0	20	1260	2.0		432	724	2.0
V02W15	N. Rock Swale Ditch	10	0.55	08/06/2009 10:00	62	0.20	90	92.2		2.0	25	1060	2.1		373	780	2.0
V02W15	N. Rock Swale Ditch	10	0.55	08/20/2009 09:40	51	0.20	62	87.6		2.0	26	861	3.4		250	662	2.0
V02W15	N. Rock Swale Ditch	10	0.55	09/03/2009 09:40	66	0.20	95	98.3		2.0	20	1140	3.9		377	521	2.0
V02W15	N. Rock Swale Ditch Median	10	0.55		66	0.2	95	87.6		2.0	20	1060	2.1		377	662	2.0
V02G06	Ottawa Creek	8	0.08	06/24/2009 09:50				33.7			20	695					
V02G06	Ottawa Creek	8	0.08	07/15/2009 10:05				49.2			20	841					
V02G06	Ottawa Creek	8	0.08	08/05/2009 10:30				50.0			20	854					
V02G06	Ottawa Creek	8	0.08	08/19/2009 09:55				46.2			21	814					
V02G06	Ottawa Creek	8	0.08	09/02/2009 09:55				50.2			20	808					

Station	River or Stream	DA	RM	Date/Time	Barium	Cadmium	Calcium	Chloride	Chlorophyll a	Chromium	COD	Conductivity	Copper	E.coli	Hardness, Total	Iron	Lead
V02G06	Ottawa Creek Median	8	0.08					49.2			20	814					
V01W28	Panther Creek	7.1	8.91	06/22/2009 10:00				30.7			20	640					
V01W28	Panther Creek	7.1	8.91	07/13/2009 09:45				35.4			22	649					
V01W28	Panther Creek	7.1	8.91	08/03/2009 09:50				34.4			20	613					
V01W28	Panther Creek	7.1	8.91	08/17/2009 09:50				45.5			20	703					
V01W28	Panther Creek	7.1	8.91	08/31/2009 12:45				48.3			22	676					
V01W28	Panther Creek Median	7.1	8.91					35.4			20	649					
300704	Panther Creek	11	7.80	06/22/2009 09:50				32.1			155	662					
300704	Panther Creek	11	7.80	07/13/2009 09:35				50.4			20	712					
300704	Panther Creek	11	7.80	08/03/2009 09:35				52.6			20	699					
300704	Panther Creek	11	7.80	08/17/2009 09:35				57.5			36	713					
300704	Panther Creek	11	7.80	08/31/2009 12:55				60.3			20	713					
300704	Panther Creek Median	11	7.80					52.6			20	712					
V01W30	Panther Creek	22.3	1.80	06/22/2009 08:50	59	0.20	72	35.3		2.0	22	656	2.5	520	287	536	2.0
V01W30	Panther Creek	22.3	1.80	07/13/2009 08:40	68	0.20	70	37.9		2.0	21	674	2.0	1000	319	231	2.0
V01W30	Panther Creek	22.3	1.80	08/03/2009 08:40	79	0.20	75	222.0		2.0	31	1310	3.3	38	340	411	2.0
V01W30	Panther Creek	22.3	1.80	08/17/2009 08:40	113	0.20	71	221.0		2.0	36	1210	3.9	20	334	463	2.0
V01W30	Panther Creek	22.3	1.80	08/31/2009 10:20	54	0.20	57	73.1		2.0	31	694	2.9	230	245	399	2.0
V01W30	Panther Creek Median	22.3	1.80		68	0.2	71	73.1		2.0	31	694	2.9	155	319	411	2.0
300699	Patton Run	14.4	2.25	06/24/2009 09:15							20			1800			
300699	Patton Run	14.4	2.25	07/15/2009 09:20				39.6			20	772		240			
300699	Patton Run	14.4	2.25	08/05/2009 09:30				34.1			20	759		120			
300699	Patton Run	14.4	2.25	08/19/2009 09:10				30.8			20	795		380			
300699	Patton Run	14.4	2.25	09/02/2009 09:15				36.4			20	721		400			
300699	Patton Run Median	14.4	2.25					35.3			20	766		380			
V02G03	Rock Fork	7.6	8.13	06/25/2009 09:10				21.2			20	585					
V02G03	Rock Fork	7.6	8.13	07/16/2009 09:20				29.0			20	645					
V02G03	Rock Fork	7.6	8.13	08/06/2009 09:15				33.8			22	635					
V02G03	Rock Fork	7.6	8.13	08/20/2009 09:05				34.5			28	581					
V02G03	Rock Fork	7.6	8.13	09/03/2009 08:55				44.8			20	698					
V02G03	Rock Fork Median	7.6	8.13					33.8			20	635					
V02P09	Rock Fork	23.1	1.10	02/10/2009 11:15	66	0.20	49	35.5		3.8	20	391	5.5	460	180	6480	4.0
V02P09	Rock Fork	23.1	1.10	03/11/2009 10:45	63	0.20	59	42.6		3.3	20	510	5.3		226	5340	3.1
V02P09	Rock Fork	23.1	1.10	04/08/2009 10:55	48	0.20	76	63.7		2.0	20	720	2.0		289	314	2.0
V02P09	Rock Fork	23.1	1.10	05/21/2009 10:46	68	0.20	95	45.4		2.0			2.0	190	377	345	2.0
V02P09	Rock Fork	23.1	1.10	05/27/2009 08:45	67	0.20	84	41.5		2.0	20	704	2.0	120	342	509	2.0
V02P09	Rock Fork	23.1	1.10	06/08/2009 10:37	54	0.20	72	28.7		2.0			2.1	380	270	1200	2.0
V02P09	Rock Fork	23.1	1.10	06/25/2009 09:35	70	0.20	86	34.9		2.0	20	686	2.0	870	338	936	2.0
V02P09	Rock Fork	23.1	1.10	07/16/2009 09:45	78	0.20	89	48.7		2.0	20	816	2.0	580	379	254	2.0
V02P09	Rock Fork	23.1	1.10	07/30/2009 08:45	73	0.20	80	51.9		2.0	20	757	2.0	450	332	354	2.0
V02P09	Rock Fork	23.1	1.10	08/06/2009 09:45	80	0.20	92	54.7		2.0	20	832	2.0	770	390	192	2.0
V02P09	Rock Fork	23.1	1.10	08/20/2009 09:40	84	0.20	88	51.1		2.0	20	778	2.0	2400	376	438	2.0
V02P09	Rock Fork	23.1	1.10	09/03/2009 09:35	73	0.20	107	51.1		2.0	20	883	2.0	330	424	286	2.0
V02P09	Rock Fork	23.1	1.10	09/22/2009 10:45	83	0.20	101	55.4		2.0	20	871	2.0	110	425	182	2.0
V02P09	Rock Fork Median	23.1	1.10		73	0.20	89	49.9		2.0	20	797	2.0	409	377	350	2.0
300693	Rush Creek	11.8	39.45	06/23/2009 08:45	92	0.20	93	16.5		2.0	20	708	2.0		364	1200	2.0
300693	Rush Creek	11.8	39.45	07/14/2009 08:30	107	0.20	101	14.3		2.0	20	719	2.0		396	864	2.0
300693	Rush Creek	11.8	39.45	08/04/2009 08:35	106	0.20	101	14.3		2.0		726	2.0		400	676	2.0
300693	Rush Creek	11.8	39.45	08/18/2009 08:20	109	0.20	103	14.6		2.0	20	725	2.0		401	526	2.0
300693	Rush Creek	11.8	39.45	09/01/2009 08:25	100	0.20	100	15.4		2.0	20	738	2.0		394	721	2.0
300693	Rush Creek Median	11.8	39.45		106	0.2	101	14.6		2.0	20	725	2.0		396	721	2.0
300694	Rush Creek	14.8	36.15	06/23/2009 09:10	84	0.20	95	24.0		2.0	20	773	2.0		390	1310	2.0
300694	Rush Creek	14.8	36.15	07/14/2009 08:45	87	0.20	102	24.9		2.0	20	798	2.0		428	771	2.0
300694	Rush Creek	14.8	36.15	08/04/2009 08:50	76	0.20	91	34.3		2.0	20	847	2.6		396	569	2.0
300694	Rush Creek	14.8	36.15	08/18/2009 08:35	82	0.20	100	42.7		2.0	20	897	2.6		439	816	2.0
300694	Rush Creek	14.8	36.15	09/01/2009 08:50	72	0.20	99	45.2		2.0	20	899	2.7		416	755	2.0
300694	Rush Creek Median	14.8	36.15		82	0.2	99	34.3		2.0	20	847	2.6		416	771	2.0
300695	Rush Creek	25.7	26.26	06/23/2009 09:30	69	0.20	85	25.2		2.0	20	695	2.0		340	577	2.0
300695	Rush Creek	25.7	26.26	07/14/2009 09:15	81	0.20	81	27.9		2.0	26	730	2.0		359	370	2.0
300695	Rush Creek	25.7	26.26	08/04/2009 09:15	78	0.20	71	26.5		2.0	20	659	2.4		313	568	2.0
300695	Rush Creek	25.7	26.26	08/18/2009 09:00	80	0.20	72	30.8		2.0	21	693	2.0		328	317	2.0
300695	Rush Creek	25.7	26.26	09/01/2009 09:15	71	0.20	70	31.4		2.0	29	645	2.6		298	378	2.0
300695	Rush Creek Median	25.7	26.26		78	0.2	72	27.9		2.0	21	693	2.0		328	378	2.0
300696	Rush Creek	50	14.50	06/23/2009 09:55	66	0.20	73	23.1		2.0	20	635	3.0	920	293	1220	2.0
300696	Rush Creek	50	14.50	07/14/2009 09:40	76	0.20	81	31.7		2.0	20	717	2.0	770	346	693	2.0
300696	Rush Creek	50	14.50	08/04/2009 09:40	76	0.20	67	29.9		2.0	20	633	3.7	2400	295	1740	2.0
300696	Rush Creek	50	14.50	08/18/2009 09:25	78	0.20	73	32.3		2.0	24	680	2.4	300	322	372	2.0
300696	Rush Creek	50	14.50	09/01/2009 09:40	40	0.20	39	16.5		2.0	37	340	4.6	400	151	1130	2.0
300696	Rush Creek Median	50	14.50		76	0.2	73	29.9		2.0	20	635	3.0	728	295	1130	2.0
V01S01	Rush Creek	77	5.39	03/11/2009 11:45	57	0.20	64	34.0		2.0	20	555	4.0		255	2430	2.0
V01S01	Rush Creek	77	5.39	04/08/2009 11:50	54	0.20	71	34.9		2.0	20	609	2.8		284	1200	2.0
V01S01	Rush Creek	77	5.39	05/07/2009 09:25	62	0.20	80	23.0		2.0	20	602	3.5	170	303	1290	2.0
V01S01	Rush Creek	77	5.39	05/21/2009 09:45	70	0.20	86	27.5		2.0			2.2	70	342	1120	2.0
V01S01	Rush Creek	77	5.39	06/08/2009 09:52	79	0.20	86	28.9		2.0			2.4	210	351	1500	2.0
V01S01	Rush Creek	77	5.39	06/23/2009 10:40	63	0.20	64	20.4		2.0	22	546	3.4	520	255	1920	2.0
V01S01	Rush Creek	77	5.39	06/30/2009 16:38	73	0.20	86	28.3		2.0			2.0		338	666	2.0
V01S01	Rush Creek	77	5.39	06/30/2009 17:00					2.600								

Station	River or Stream	DA	RM	Date/Time	Barium	Cadmium	Calcium	Chloride	Chlorophyll_a	Chromium	COD	Conductivity	Copper	E.coli	Hardness, Total	Iron	Lead
V01S01	Rush Creek	77	5.39	06/30/2009 17:29					184.000								
V01S01	Rush Creek	77	5.39	07/14/2009 10:20	78	0.20	91	31.5		2.0	20	739	2.0	300	367	487	2.0
V01S01	Rush Creek	77	5.39	07/29/2009 11:10	77	0.20	78	32.2		2.0	20	692	3.0	330	322	897	2.0
V01S01	Rush Creek	77	5.39	08/04/2009 10:20	76	0.20	69	25.9		2.2	20	624	3.5	2400	288	2420	2.0
V01S01	Rush Creek	77	5.39	08/18/2009 10:20	87	0.20	94	26.6		2.0	20	731	2.0	96	379	690	2.0
V01S01	Rush Creek	77	5.39	09/01/2009 10:25	51	0.20	43	17.9		2.0	36	365	4.6	770	165	2250	2.0
V01S01	Rush Creek	77	5.39	09/22/2009 11:30	72	0.20	83	27.8		2.0	27	659	2.0	30	327	302	2.0
V01S01	Rush Creek Median	77	5.39		73	0.20	83	27.5		2.0	20	642	2.4	242	327	1120	2.0
V01K04	Rush Creek	105	0.55	06/23/2009 11:00	65	0.20	62	19.6		2.0	23	530	4.2		245	2490	2.0
V01K04	Rush Creek	105	0.55	07/14/2009 10:40	76	0.20	91	29.5		2.0	20	756	2.0		371	420	2.0
V01K04	Rush Creek	105	0.55	08/04/2009 10:40	74	0.20	78	27.9		2.0	22	681	8.0		322	935	2.0
V01K04	Rush Creek	105	0.55	08/18/2009 10:35	75	0.20	93	27.0		2.0	22	740	2.0		380	1300	2.0
V01K04	Rush Creek	105	0.55	09/01/2009 10:45	51	0.20	42	16.8		2.0	28	355	4.8		163	2600	2.0
V01K04	Rush Creek Median	105	0.55		74	0.2	78	27.0		2.0	22	681	4.2		322	1300	2.0
V01W18	Scioto River	18.3	234.39	02/10/2009 08:35	52	0.20	38	21.4		3.2	20	318	5.3	390	148	4270	3.1
V01W18	Scioto River	18.3	234.39	03/11/2009 08:45	59	0.20	53	24.6		3.0	20	446	6.5		211	3870	3.0
V01W18	Scioto River	18.3	234.39	04/08/2009 08:30	46	0.20	63	23.9		2.0	20	534	2.0		244	766	2.0
V01W18	Scioto River	18.3	234.39	05/21/2009 08:00	64	0.20	85	22.2		2.0			2.0	170	336	352	2.0
V01W18	Scioto River	18.3	234.39	06/08/2009 08:00	69	0.20	84	22.4		2.0			2.0	550	337	470	2.0
V01W18	Scioto River	18.3	234.39	06/22/2009 09:00	67	0.20	84	21.2		2.0	20	666	2.0	1300	333	401	2.0
V01W18	Scioto River	18.3	234.39	06/30/2009 10:35					171.000								
V01W18	Scioto River	18.3	234.39	06/30/2009 10:54					0.500								
V01W18	Scioto River	18.3	234.39	07/13/2009 08:40	104	0.20	109	26.5		2.0	20	809	2.0	210	437	613	2.0
V01W18	Scioto River	18.3	234.39	07/29/2009 08:40	109	0.20	109	38.6		2.0	20	853	2.0	990	433	604	2.0
V01W18	Scioto River	18.3	234.39	08/03/2009 08:35	114	0.20	119	30.7		2.0	20	876	2.0	550	462	569	2.0
V01W18	Scioto River	18.3	234.39	08/17/2009 08:40	123	0.20	129	33.2		2.0	20	908	2.0	1100	499	588	2.0
V01W18	Scioto River	18.3	234.39	08/31/2009 08:40	121	0.20	127	30.9		2.0	20	877	2.0	90	490	711	2.0
V01W18	Scioto River	18.3	234.39	09/22/2009 08:25	121	0.20	126	33.1		2.0	20	904	2.0	320	493	688	2.0
V01W18	Scioto River Median	18.3	234.39		109	0.20	109	30.7		2.0	20	876	2.0	424	437	588	2.0
V01W19	Scioto River	28	231.86	06/22/2009 08:40	77	0.20	107	23.3		2.0	20	777	2.0		403	393	2.0
V01W19	Scioto River	28	231.86	07/13/2009 08:30	93	0.20	130	23.8		2.0	20	881	2.0		489	417	2.0
V01W19	Scioto River	28	231.86	08/03/2009 08:25	98	0.20	130	24.8		2.0	20	898	2.0		489	349	2.0
V01W19	Scioto River	28	231.86	08/17/2009 08:25	100	0.20	133	23.7		2.0	20	885	2.0		497	358	2.0
V01W19	Scioto River	28	231.86	08/31/2009 08:30	95	0.20	135	27.1		2.0	20	903	2.0	430	502	299	2.0
V01W19	Scioto River Median	28	231.86		95	0.2	130	23.8		2.0	20	885	2.0		489	358	2.0
201834	Scioto River	49	226.30	06/22/2009 09:40	85	0.20	115	22.1		2.0	21	819	2.6		427	2560	2.0
201834	Scioto River	49	226.30	07/13/2009 09:20	98	0.20	123	23.7		2.0	30	846	2.6		468	2000	2.0
201834	Scioto River	49	226.30	08/03/2009 09:10	95	0.20	123	27.2		2.0	20	894	3.7		459	1380	2.0
201834	Scioto River	49	226.30	08/17/2009 09:30	104	0.20	126	27.2		2.0	31	891	2.8		488	1950	2.0
201834	Scioto River	49	226.30	08/31/2009 09:15	93	0.20	130	25.7		2.0	25	873	2.0		489	732	2.0
201834	Scioto River Median	49	226.30		95	0.2	123	25.7		2.0	25	873	2.6		468	1950	2.0
V01P06	Scioto River	62	224.20	06/22/2009 10:00	84	0.20	133	21.8		2.0	20	925	3.4		484	3300	2.0
V01P06	Scioto River	62	224.20	07/13/2009 09:40	100	0.20	128	23.9		2.0	24	876	3.3		484	2810	2.0
V01P06	Scioto River	62	224.20	08/03/2009 09:30	103	0.24	126	26.4		2.4	21	879	9.8		475	2550	2.8
V01P06	Scioto River	62	224.20	08/17/2009 09:50	106	0.20	130	26.6		2.0	33	881	3.8		498	2640	2.0
V01P06	Scioto River	62	224.20	08/31/2009 09:30	98	0.20	126	25.2		2.0	29	834	2.5		475	1610	2.0
V01P06	Scioto River Median	62	224.20		100	0.2	128	25.2		2.0	24	879	3.4		484	2640	2.0
V01W20	Scioto River	67	223.05	06/22/2009 10:15	85	0.20	144	20.8		2.2	24	964	3.9		516	3150	2.0
V01W20	Scioto River	67	223.05	07/13/2009 09:55	102	0.20	132	24.6		2.3	24	884	3.6		498	3390	2.0
V01W20	Scioto River	67	223.05	08/03/2009 09:50	101	0.20	125	26.8		2.8	27	879	4.9		473	3510	2.0
V01W20	Scioto River	67	223.05	08/17/2009 10:00	103	0.20	131	26.6		2.1	28	889	4.0		500	2920	2.0
V01W20	Scioto River	67	223.05	08/31/2009 09:40	90	0.20	115	24.2		2.1	25	824	3.4		435	2540	2.0
V01W20	Scioto River Median	67	223.05		101	0.2	131	24.6		2.2	25	884	3.9		498	3150	2.0
610770	Scioto River	117	216.67	06/22/2009 11:35	71	0.20	133	20.0		2.0	22	904	3.3		476	2250	2.0
610770	Scioto River	117	216.67	07/13/2009 11:20	78	0.20	119	26.0		2.0	24	895	3.0		462	1620	2.0
610770	Scioto River	117	216.67	08/03/2009 11:05	83	0.20	114	27.1		2.0	20	881	4.0		441	2160	2.0
610770	Scioto River	117	216.67	08/17/2009 11:20	92	0.20	121	31.1		2.0	27	913	3.4		487	1830	2.0
610770	Scioto River	117	216.67	08/31/2009 10:55	81	0.20	113	34.4		2.0	26	902	2.5		451	1110	2.0
610770	Scioto River Median	117	216.67		81	0.2	119	27.1		2.0	24	902	3.3		462	1830	2.0
V01S05	Scioto River	160	212.47	02/10/2009 09:35	60	0.20	63	20.9		4.0	21	459	6.3	310	231	5790	3.4
V01S05	Scioto River	160	212.47	03/11/2009 09:35	64	0.20	75	19.9		4.6	23	563	10.1		274	5900	4.2
V01S05	Scioto River	160	212.47	04/08/2009 09:35	48	0.20	89	22.9		2.0	26	683	3.3		325	1570	2.0
V01S05	Scioto River	160	212.47	05/06/2009 09:55	60	0.20	116	20.2		2.0	23	770	2.8	150	417	1140	2.0
V01S05	Scioto River	160	212.47	05/21/2009 08:45	68	0.20	118	23.0		2.0			2.5	110	443	1610	2.0
V01S05	Scioto River	160	212.47	06/08/2009 08:56	70	0.20	136	22.5		2.0			3.0	410	492	2040	2.0
V01S05	Scioto River	160	212.47	06/22/2009 11:20	66	0.20	115	22.7		2.0	20	842	2.8	480	419	1560	2.0
V01S05	Scioto River	160	212.47	06/30/2009 13:43	70	0.20	117	24.0		2.0			3.0		440	1460	2.0
V01S05	Scioto River	160	212.47	06/30/2009 14:05					9.100								
V01S05	Scioto River	160	212.47	06/30/2009 14:37					120.000								
V01S05	Scioto River	160	212.47	07/13/2009 10:45	76	0.20	114	30.3		2.0	30	880	3.0	310	458	1220	2.0
V01S05	Scioto River	160	212.47	07/29/2009 09:45	75	0.20	105	31.3		2.0	20	857	3.1	300	423	1220	2.0
V01S05	Scioto River	160	212.47	08/03/2009 10:50	77	0.20	108	29.7		2.0	24	882	3.2	600	430	1320	2.0
V01S05	Scioto River	160	212.47	08/17/2009 10:55	81	0.20	111	29.9		2.0	25	892	3.0	230	458	944	2.0
V01S05	Scioto River	160	212.47	08/31/2009 12:00	68	0.20	97	32.6		2.0	20	832	2.5	660	399	778	2.0
V01S05	Scioto River	160	212.47	09/22/2009 09:20	70	0.20	109	30.7		2.0	27	898	2.6	130	453	440	2.0
V01S05	Scioto River Median	160	212.47		70	0.20	114	29.7		2.0	24	869	3.0	285	440	1220	2.0
610760	Scioto River	170	210.07	06/22/2009 10:35	60	0.20	109	23.6		2.0	24	836	2.3	980	400	618	2.0

Station	River or Stream	DA	RM	Date/Time	Barium	Cadmium	Calcium	Chloride	Chlorophyll a	Chromium	COD	Conductivity	Copper	E.coli	Hardness, Total	Iron	Lead
610760	Scioto River	170	210.07	07/13/2009 10:15	61	0.20	98	37.2		2.0	23	904	3.1	170	414	399	2.0
610760	Scioto River	170	210.07	08/03/2009 10:25	58	0.20	91	42.3		2.0	20	907	4.4	160	388	498	2.0
610760	Scioto River	170	210.07	08/17/2009 10:25	56	0.20	89	45.6		2.0	24	953	4.3	46	408	313	2.0
610760	Scioto River	170	210.07	08/31/2009 11:10	47	0.20	72	39.8		2.0	25	787	4.3		316	431	2.0
610760	Scioto River Median	170	210.07		58	0.2	91	39.8		2.0	24	904	4.3	157	400	431	2.0
V01W23	Scioto River	178	207.26	06/22/2009 09:20	62	0.20	109	24.5		2.0	20	826	2.6	690	400	760	2.0
V01W23	Scioto River	178	207.26	07/13/2009 09:05	61	0.20	95	41.5		2.0	21	904	3.3	160	402	177	2.0
V01W23	Scioto River	178	207.26	08/03/2009 09:15	58	0.20	88	43.2		2.0	23	893	3.5	130	372	577	2.0
V01W23	Scioto River	178	207.26	08/17/2009 09:15	67	0.20	89	50.4		2.0	24	951	4.7	200	403	634	2.0
V01W23	Scioto River	178	207.26	08/31/2009 11:00	44	0.20	67	42.0		2.0	20	755	5.6	50	295	324	2.0
V01W23	Scioto River Median	178	207.26		61	0.2	89	42.0		2.0	21	893	3.5	170	400	577	2.0
V01S11	Scioto River	223	203.36	06/22/2009 09:10	65	0.20	106	25.0		2.0	20	786	2.8	290	392	1070	2.0
V01S11	Scioto River	223	203.36	07/13/2009 08:35	62	0.20	95	37.8		2.0	20	888	2.9	230	406	160	2.0
V01S11	Scioto River	223	203.36	08/03/2009 08:55	54	0.20	74	44.1		2.0	20	789	3.4	650	317	532	2.0
V01S11	Scioto River	223	203.36	08/17/2009 08:55	65	0.20	89	45.6		2.0	22	918	4.3	200	403	470	2.0
V01S11	Scioto River	223	203.36	08/31/2009 10:35	38	0.20	52	42.0		2.0	20	628	4.1	490	229	479	2.0
V01S11	Scioto River Median	223	203.36		62	0.2	89	42.0		2.0	20	789	3.4	335	392	479	2.0
V01S23	Scioto River	258	196.12	02/10/2009 10:25	45	0.20	58	21.4		2.2	21	450	4.2	420	207	3010	2.0
V01S23	Scioto River	258	196.12	03/11/2009 10:15	61	0.20	69	23.1		3.7	21	545	8.7		259	5390	3.5
V01S23	Scioto River	258	196.12	04/08/2009 10:15	50	0.20	79	24.0		2.1	20	616	6.4		292	2150	2.3
V01S23	Scioto River	258	196.12	05/07/2009 09:00	60	0.20	105	23.1		2.0	20	729	3.0	450	390	1280	2.0
V01S23	Scioto River	258	196.12	05/21/2009 09:32	64	0.20	106	26.8		2.0			2.9	90	401	1620	2.0
V01S23	Scioto River	258	196.12	06/08/2009 09:39	70	0.20	125	26.9		2.0			3.6	300	456	2280	2.0
V01S23	Scioto River	258	196.12	06/23/2009 09:50	63	0.20	98	25.1		2.0	20	774	2.4	460	368	1090	2.0
V01S23	Scioto River	258	196.12	07/14/2009 09:20	78	0.20	98	35.7		2.0	26	843	2.1	200	405	1130	2.0
V01S23	Scioto River	258	196.12	07/29/2009 10:40	72	0.20	83	45.9		2.0	20	814	4.0	210	351	1460	2.0
V01S23	Scioto River	258	196.12	08/04/2009 09:55	71	0.20	81	52.0		2.7	24	885	3.8	490	346	1290	2.0
V01S23	Scioto River	258	196.12	08/18/2009 09:25	81	0.20	91	43.5		2.0	26	876	3.8	220	396	1220	2.0
V01S23	Scioto River	258	196.12	09/01/2009 09:20	62	0.20	65	46.0		2.0	23	709	4.3	600	282	1710	2.0
V01S23	Scioto River	258	196.12	09/02/2009 09:30					5.000								
V01S23	Scioto River	258	196.12	09/22/2009 10:05	65	0.20	79	40.0		2.0	21	802	2.6	270	341	665	2.0
V01S23	Scioto River Median	258	196.12		68	0.20	95	37.9		2.0	22	808	3.3	289	379	1285	2.0
V01W24	Scioto River	262	192.21	06/23/2009 10:20	66	0.20	96	26.4		2.0	27	757	2.9	330	363	1860	2.0
V01W24	Scioto River	262	192.21	07/14/2009 09:45	79	0.20	99	48.8		2.0	23	876	2.3	110	408	1230	2.0
V01W24	Scioto River	262	192.21	08/04/2009 10:20	74	0.20	81	50.4		2.0	22	847	4.1	610	346	2040	2.0
V01W24	Scioto River	262	192.21	08/18/2009 09:50	80	0.20	87	42.1		2.0	24	859	3.4	220	378	1750	2.0
V01W24	Scioto River	262	192.21	09/01/2009 09:50	66	0.20	66	43.0		2.0	23	726	4.4	870	288	2110	2.0
V01W24	Scioto River Median	262	192.21		74	0.2	87	43.0		2.0	23	847	3.4	335	363	1860	2.0
201831	Scioto River	379	186.00	06/23/2009 11:10	61	0.20	78	22.9		2.0	22	655	3.7	460	298	2270	2.0
201831	Scioto River	379	186.00	07/14/2009 10:00	84	0.20	102	48.8		2.0	23	863	2.6	81	415	1690	2.0
201831	Scioto River	379	186.00	08/04/2009 10:35	80	0.20	84	41.8		2.3	22	821	14.3	190	350	2390	2.2
201831	Scioto River	379	186.00	08/18/2009 10:10	80	0.20	85	44.8		2.0	26	818	2.8	93	352	1260	2.0
201831	Scioto River	379	186.00	09/01/2009 10:00	54	0.20	47	23.4		2.0	24	456	4.8	610	191	1990	2.1
201831	Scioto River Median	379	186.00		80	0.2	84	41.8		2.0	23	818	3.7	209	350	1990	2.0
V01W15	Scioto River	407	179.05	06/24/2009 08:45	64	0.20	82	22.1		2.0		654	3.7	370	308	1990	2.0
V01W15	Scioto River	407	179.05	07/15/2009 09:05	79	0.20	95	46.9		2.0	28	838	2.6	130	385	1630	2.0
V01W15	Scioto River	407	179.05	08/05/2009 09:15	82	0.20	81	56.5		2.0	34	826	2.3	240	338	1520	2.0
V01W15	Scioto River	407	179.05	08/19/2009 08:45	83	0.20	87	43.8		2.0	20	817	2.4	120	361	1600	2.0
V01W15	Scioto River	407	179.05	09/02/2009 08:55	52	0.20	43	21.2		2.2	24	410	4.6	400	173	2790	2.4
V01W15	Scioto River Median	407	179.05		79	0.2	82	43.8		2.0	26	817	2.6	223	338	1630	2.0
601280	Scioto River	567	169.25	02/10/2009 12:10	42	0.20	38	25.9		2.7	23	337	4.5	430	140	3720	2.4
601280	Scioto River	567	169.25	03/11/2009 12:15	59	0.20	57	28.9		3.7	20	486	6.5		212	5130	3.5
601280	Scioto River	567	169.25	04/08/2009 12:15	57	0.20	68	32.5		3.0	20	571	5.3		260	3700	2.6
601280	Scioto River	567	169.25	05/21/2009 11:28	66	0.20	98	35.0		2.0			2.8	40	364	1650	2.0
601280	Scioto River	567	169.25	05/27/2009 09:45	74	0.20	99	39.7		2.0	20	776	3.3	110	379	1450	2.0
601280	Scioto River	567	169.25	06/08/2009 11:33	63	0.20	93	34.2		2.0			3.1	200	348	1760	2.0
601280	Scioto River	567	169.25	06/24/2009 09:40	66	0.20	75	25.9		2.0	20	614	4.0	400	282	2560	2.6
601280	Scioto River	567	169.25	07/15/2009 09:55	69	0.20	84	68.6		2.0	23	865	2.1	10	333	415	2.0
601280	Scioto River	567	169.25	07/30/2009 09:55	67	0.29	76	53.3		2.0	24	795	4.2	330	305	1220	2.0
601280	Scioto River	567	169.25	08/05/2009 10:00	73	0.20	82	67.7		2.0	22	913	2.6	280	328	1420	2.0
601280	Scioto River	567	169.25	08/19/2009 09:45	74	0.20	84	75.8		2.0	26	938	3.0	10	337	1250	2.0
601280	Scioto River	567	169.25	09/02/2009 09:40	50	0.20	49	31.5		2.0	22	472	4.2	400	188	2340	2.7
601280	Scioto River	567	169.25	09/02/2009 15:20					9.400								
601280	Scioto River	567	169.25	09/22/2009 11:55	67	0.20	83	69.1		2.0	25	869	3.5	150	323	1240	2.0
601280	Scioto River Median	567	169.25		67	0.20	84	46.5		2.0	23	830	3.2	107	331	1435	2.0
V01W27	Silver Creek	11.3	2.32	06/22/2009 11:55	54	0.20	69	20.4		2.0	20	609	2.0	490	279	328	2.0
V01W27	Silver Creek	11.3	2.32	07/13/2009 11:10	68	0.20	57	29.5		2.1	28	529	4.2	340	270	2910	2.3
V01W27	Silver Creek	11.3	2.32	08/03/2009 11:15	42	0.20	47	21.1		2.0	30	528	2.6	2400	208	269	2.0
V01W27	Silver Creek	11.3	2.32	08/17/2009 11:15	49	0.20	44	30.3		2.0	41	639	3.7	41	188	210	2.0
V01W27	Silver Creek Median	11.3	2.32											359			
V01S07	Taylor Creek	12.7	4.43	06/22/2009 10:20				27.7			20	676					
V01S07	Taylor Creek	12.7	4.43	07/13/2009 10:00				21.6			23	699					
V01S07	Taylor Creek	12.7	4.43	08/03/2009 10:05				22.5			20	661					
V01S07	Taylor Creek	12.7	4.43	08/17/2009 10:10				22.9			20	673					
V01S07	Taylor Creek	12.7	4.43	08/31/2009 12:30				18.7			20	575					
V01S07	Taylor Creek Median	12.7	4.43					22.5			20	673					
V01P01	Taylor Creek	16.3	0.76	02/10/2009 10:00	47	0.20	51	35.0		2.0	21	456	3.2	490	197	2060	2.0

Station	River or Stream	DA	RM	Date/Time	Barium	Cadmium	Calcium	Chloride	Chlorophyll a	Chromium	COD	Conductivity	Copper	E.coli	Hardness, Total	Iron	Lead
V01P01	Taylor Creek	16.3	0.76	03/11/2009 09:45	57	0.20	53	32.4		2.8	20	480	5.7		219	3810	2.6
V01P01	Taylor Creek	16.3	0.76	04/08/2009 09:45	43	0.20	65	32.7		2.0	20	598	2.0		265	655	2.0
V01P01	Taylor Creek	16.3	0.76	05/06/2009 10:20	51	0.20	78	25.3		2.0	20	636	2.0	210	310	355	2.0
V01P01	Taylor Creek	16.3	0.76	05/21/2009 08:55	60	0.20	87	25.9		2.0			2.0	340	357	320	2.0
V01P01	Taylor Creek	16.3	0.76	06/08/2009 09:07	57	0.20	79	32.9		2.0			2.0	1400	333	290	2.0
V01P01	Taylor Creek	16.3	0.76	06/22/2009 11:10	60	0.20	80	40.0		2.0	20	761	2.0	1400	332	347	2.0
V01P01	Taylor Creek	16.3	0.76	06/30/2009 15:12	66	0.20	89	49.0		2.0			2.0		387	367	2.0
V01P01	Taylor Creek	16.3	0.76	06/30/2009 15:23					43.700								
V01P01	Taylor Creek	16.3	0.76	06/30/2009 15:45					253.000								
V01P01	Taylor Creek	16.3	0.76	07/13/2009 11:00	57	0.20	91	57.9		2.0	30	997	2.0	550	421	280	2.0
V01P01	Taylor Creek	16.3	0.76	07/29/2009 10:00	51	0.20	88	44.5		2.0	20	959	2.0	1100	397	371	2.0
V01P01	Taylor Creek	16.3	0.76	08/03/2009 11:00	43	0.20	79	37.0		2.0	20	780	2.0	1600	350	153	2.0
V01P01	Taylor Creek	16.3	0.76	08/17/2009 11:05	55	0.20	85	42.7		2.0	20	974	2.4	170	417	635	2.0
V01P01	Taylor Creek	16.3	0.76	08/31/2009 11:45	30	0.20	54	31.2		2.0	20	621	2.0	290	242	145	2.0
V01P01	Taylor Creek	16.3	0.76	09/22/2009 09:30	50	0.20	86	54.1		2.0	24	1030	2.7	10	388	209	2.0
V01P01	Taylor Creek Median	16.3	0.76		55	0.20	86	40.0		2.0	20	870	2.0	382	357	320	2.0
300688	Wallace Fork	4.8	0.23	06/22/2009 09:25				25.7			20	641					
300688	Wallace Fork	4.8	0.23	07/13/2009 09:00				35.1			23	693					
300688	Wallace Fork	4.8	0.23	08/03/2009 08:55				42.0			22	692					
300688	Wallace Fork	4.8	0.23	08/17/2009 09:05				44.9			44	574					
300688	Wallace Fork	4.8	0.23	09/02/2009 11:51					1.800								
300688	Wallace Fork Median	4.8	0.23					38.6			23	687					
V01W31	Wildcat Creek	4.3	6.72	06/23/2009 09:15				21.2			20	578					
V01W31	Wildcat Creek	4.3	6.72	07/14/2009 08:45				30.3			20	595					
V01W31	Wildcat Creek	4.3	6.72	08/04/2009 09:15				40.6			27	593					
V01W31	Wildcat Creek	4.3	6.72	08/18/2009 08:48				43.5			38	608					
V01W31	Wildcat Creek	4.3	6.72	09/01/2009 08:15				41.2			32	538					
V01W31	Wildcat Creek Median	4.3	6.72					40.6			27	593					
300692	Wildcat Creek	8.4	4.00	06/23/2009 09:25				20.3			20	601					
300692	Wildcat Creek	8.4	4.00	07/14/2009 08:55				25.6			20	677					
300692	Wildcat Creek	8.4	4.00	08/04/2009 09:25				28.9			22	626					
300692	Wildcat Creek	8.4	4.00	08/18/2009 09:00				29.5			27	723					
300692	Wildcat Creek	8.4	4.00	09/01/2009 08:50				39.3			25	580					
300692	Wildcat Creek Median	8.4	4.00					28.9			22	626					
V01W32	Wildcat Creek	22.2	0.49	06/23/2009 09:35	60	0.20	71	21.1		2.0	20	637	2.4	1000	297	1230	2.0
V01W32	Wildcat Creek	22.2	0.49	07/14/2009 09:05	68	0.20	78	22.7		2.0	20	740	2.0	420	355	439	2.0
V01W32	Wildcat Creek	22.2	0.49	08/04/2009 09:40	66	0.20	63	23.5		2.0	35	675	3.8	2400	297	2090	2.0
V01W32	Wildcat Creek	22.2	0.49	08/18/2009 09:10	69	0.20	73	25.0		2.0	27	726	2.0	1600	339	578	2.0
V01W32	Wildcat Creek	22.2	0.49	09/01/2009 09:05	53	0.20	53	34.0		2.0	32	570	3.8	1600	235	1320	2.0
V01W32	Wildcat Creek Median	22.2	0.49		66	0.2	71	23.5		2.0	27	675	2.4	1209	297	1230	2.0
300691	Wolf Creek	12	0.51	06/22/2009 09:30				28.5			20	621		720			
300691	Wolf Creek	12	0.51	07/13/2009 09:15				31.7			79	924		140			
300691	Wolf Creek	12	0.51	08/03/2009 09:20				40.6			20	1020		200			
300691	Wolf Creek	12	0.51	08/17/2009 09:20				47.9			20	1100		99			
300691	Wolf Creek	12	0.51	08/31/2009 10:45							20			40			
300691	Wolf Creek Median	12	0.51					36.2			20	972		152			

Station	River or Stream	DA	RM	Date/Time	Magnesium	Manganese	Mercury	Nickel	Nitrate+nitrite	Nitrite	TIN	Orthophosphate	phosphate, diss	Pheophytin a	Potassium	Selenium	Sodium
V02G07	Battle Run	9.4	0.25	06/24/2009 09:30					8.52	0.048	8.568						
V02G07	Battle Run	9.4	0.25	07/15/2009 09:40					0.38	0.020	0.400						
V02G07	Battle Run	9.4	0.25	08/05/2009 09:50					1.27	0.026	1.296						
V02G07	Battle Run	9.4	0.25	08/19/2009 09:25					0.18	0.020	0.200						
V02G07	Battle Run	9.4	0.25	09/02/2009 09:30					0.89	0.020	0.910						
V02G07	Battle Run Median	9.4	0.25						0.89	0.020	0.910						
300697	Big Swale	11.6	0.20	06/23/2009 10:15					2.97	0.100	3.070						
300697	Big Swale	11.6	0.20	09/01/2009 10:00					0.70	0.020	0.720						
V01S20	Cottonwood Ditch	11.3	4.10	06/22/2009 11:00					6.67	0.194	6.864						
V01S20	Cottonwood Ditch	11.3	4.10	07/13/2009 10:45					0.17	0.020	0.190						
V01S20	Cottonwood Ditch	11.3	4.10	08/03/2009 10:30					0.14	0.020	0.160						
V01S20	Cottonwood Ditch	11.3	4.10	08/17/2009 10:40					0.10	0.023	0.123						
V01S20	Cottonwood Ditch	11.3	4.10	08/31/2009 10:20					0.10	0.020	0.120						
V01S20	Cottonwood Ditch	11.3	4.10	09/02/2009 10:26							0.000			13.4			
V01S20	Cottonwood Ditch Median	11.3	4.10						0.14	0.020	0.160						
V01S08	Cottonwood Ditch	19.3	0.68	02/10/2009 09:10	16	96	0.20	9.4	9.09	0.020	9.020				4	2.0	6
V01S08	Cottonwood Ditch	19.3	0.68	03/11/2009 09:05	18	74	0.20	24.0	9.15	0.020	9.170				4	2.0	7
V01S08	Cottonwood Ditch	19.3	0.68	04/08/2009 09:05	24	19	0.20	4.0	9.71	0.020	9.730				2	2.6	10
V01S08	Cottonwood Ditch	19.3	0.68	05/06/2009 09:15	30	61	0.20	6.0	7.72		7.720				3	2.5	14
V01S08	Cottonwood Ditch	19.3	0.68	05/21/2009 08:20	36	116		7.7	6.59	0.105	6.695	0.077			3	2.2	19
V01S08	Cottonwood Ditch	19.3	0.68	06/08/2009 08:27	36	77		7.6	8.23	0.071	8.301		0.071		3	2.0	14
V01S08	Cottonwood Ditch	19.3	0.68	06/22/2009 10:35	33	51	0.20	5.7	9.38	0.090	9.470				2	2.0	14
V01S08	Cottonwood Ditch	19.3	0.68	06/30/2009 11:30							0.000				5.3		
V01S08	Cottonwood Ditch	19.3	0.68	06/30/2009 12:18							0.000			54.4			
V01S08	Cottonwood Ditch	19.3	0.68	07/13/2009 10:15	39	154	0.20	8.3	1.68	0.020	1.700				4	2.0	44
V01S08	Cottonwood Ditch	19.3	0.68	07/29/2009 09:10	42	178	0.20	9.0	2.06	0.020	2.080				6	2.0	63
V01S08	Cottonwood Ditch	19.3	0.68	08/03/2009 10:05	40	226	0.20	9.8	1.72	0.020	1.740				6	2.0	60
V01S08	Cottonwood Ditch	19.3	0.68	08/17/2009 10:20	47	125	0.20	6.4	2.75	0.051	2.801				7	2.0	86
V01S08	Cottonwood Ditch	19.3	0.68	08/31/2009 10:00	42	95	0.20	6.5	1.75	0.024	1.774				8	2.0	72
V01S08	Cottonwood Ditch	19.3	0.68	09/22/2009 08:50	49	172	0.20	5.3	2.63	0.205	2.835				9	2.0	99
V01S08	Cottonwood Ditch Median	19.30	0.68		40	125	0.20	7.6	2.63	0.051	2.080				6	2.0	60
300689	Dunlap Creek	8.9	0.10	06/22/2009 09:50					8.88	0.051	8.911						
300689	Dunlap Creek	8.9	0.10	07/13/2009 09:30					0.49	0.020	0.510						
300689	Dunlap Creek	8.9	0.10	08/03/2009 09:20					0.10	0.020	0.120						
300689	Dunlap Creek	8.9	0.10	08/17/2009 09:40					0.12	0.020	0.140						
300689	Dunlap Creek	8.9	0.10	08/31/2009 09:20					0.15	0.020	0.170						
300689	Dunlap Creek Median	8.90	0.10						0.15	0.020	0.170						
300701	Elliot Run	2.5	1.25	06/24/2009 09:05					8.07	0.380	8.450						
300701	Elliot Run	2.5	1.25	07/15/2009 09:15					3.07	0.218	3.288						
300701	Elliot Run	2.5	1.25	08/05/2009 09:50					6.87	0.480	7.350						
300701	Elliot Run	2.5	1.25	08/19/2009 09:15					1.27	0.253	1.523						
300701	Elliot Run	2.5	1.25	09/02/2009 09:30					1.17	0.053	1.223						
300701	Elliot Run Median	2.5	1.25						3.07	0.253	3.288						
300700	Fulton Creek	12.5	16.30	06/24/2009 09:25					4.85	0.152	5.002						
300700	Fulton Creek	12.5	16.30	07/15/2009 09:30					0.10	0.020	0.120						
300700	Fulton Creek	12.5	16.30	08/05/2009 10:10					0.10	0.020	0.120						
300700	Fulton Creek	12.5	16.30	08/19/2009 09:35					0.10	0.020	0.120						
300700	Fulton Creek	12.5	16.30	09/02/2009 09:55					0.84	0.074	0.914						
300700	Fulton Creek Median	12.5	16.30						0.10	0.020	0.120						
V02S07	Fulton Creek	24.9	10.35	06/24/2009 09:15					7.97	0.167	8.137						
V02S07	Fulton Creek	24.9	10.35	07/15/2009 09:20					0.10	0.020	0.120						
V02S07	Fulton Creek	24.9	10.35	08/05/2009 10:00					0.10	0.020	0.120						
V02S07	Fulton Creek	24.9	10.35	08/19/2009 09:25					0.97	0.020	0.990						
V02S07	Fulton Creek	24.9	10.35	09/02/2009 09:40					0.10	0.020	0.120						
V02S07	Fulton Creek	24.9	10.35	09/02/2009 10:40							0.000			3.4			
V02S07	Fulton Creek Median	24.9	10.35						0.10	0.020	0.120						
V02S06	Richwood WWTP	25.2	9.50	06/24/2009 09:40					0.20	0.109	0.309						
V02S06	Richwood WWTP	25.2	9.50	07/15/2009 09:45	39	10	0.20	2.4	3.80	0.020	3.820				9	2.0	100
V02S06	Richwood WWTP	25.2	9.50	08/05/2009 10:20	37	17	0.20	2.1	2.82	0.020	2.840				8	2.0	94
V02S06	Richwood WWTP	25.2	9.50	08/19/2009 10:00	41	14	0.20	2.2	2.46	0.020	2.480				10	2.0	103
V02S06	Richwood WWTP	25.2	9.50	09/02/2009 10:10	36	55	0.20	2.4	0.83	0.475	1.305				7	2.0	80
V02S06	Fulton Creek Median	25.2	9.50		38	16	0.20	2.3	2.46	0.020	2.480				9	2.0	97
V02S05	Fulton Creek	29	8.70	06/24/2009 09:55	27	37	0.20	2.6	8.17	0.271	6.441				4	2.0	19
V02S05	Fulton Creek	29	8.70	07/15/2009 09:50	41	120	0.20	2.7	0.64	0.042	0.682				6	2.0	53
V02S05	Fulton Creek	29	8.70	08/05/2009 10:35	36	95	0.20	2.2	0.75	0.038	0.788				5	2.0	54
V02S05	Fulton Creek	29	8.70	08/19/2009 10:15	40	153	0.20	2.5	0.64	0.038	0.678				8	2.0	84
V02S05	Fulton Creek	29	8.70	09/02/2009 10:25	38	55	0.20	2.3	0.46	0.075	0.535				5	2.0	40
V02S05	Fulton Creek Median	29	8.70		38	95	0.20	2.5	0.64	0.042	0.682				5	2.0	53
V02S04	Fulton Creek	40	6.44	06/24/2009 08:50					6.01		6.010						
V02S04	Fulton Creek	40	6.44	07/15/2009 09:00					0.34	0.020	0.360						
V02S04	Fulton Creek	40	6.44	08/05/2009 09:35					0.31	0.020	0.330						
V02S04	Fulton Creek	40	6.44	08/19/2009 09:00					0.17	0.020	0.190						
V02S04	Fulton Creek	40	6.44	09/02/2009 09:20					0.38	0.020	0.400						
V02S04	Fulton Creek Median	40	6.44						0.34	0.020	0.360						
V02S02	Fulton Creek	46.4	1.20	06/24/2009 08:46					8.51	0.122	6.632						
V02S02	Fulton Creek	46.4	1.20	07/15/2009 08:46					0.15	0.020	0.170						
V02S02	Fulton Creek	46.4	1.20	08/05/2009 09:25					0.11	0.020	0.130						

Station	River or Stream	DA	RM	Date/Time	Magnesium	Manganese	Mercury	Nickel	Nitrate+nitrite	Nitrite	TIN	Orthophosphate	phosphate, diss	Pheophytin a	Potassium	Selenium	Sodium
V02S02	Fulton Creek	46.4	1.20	08/19/2009 08:45					0.10	0.020	0.120						
V02S02	Fulton Creek	46.4	1.20	09/02/2009 09:05					0.70	0.020	0.720						
V02S02	<i>Fulton Creek Median</i>	46.4	1.20						0.15	0.020	0.170						
V06P08	Fulton Creek	46.9	0.22	02/10/2009 12:45	10	38	0.20	3.6	6.33	0.030	6.360				4	2.0	9
V06P08	Fulton Creek	46.9	0.22	03/11/2009 12:35	21	20	0.20	4.1	6.82	0.028	6.848				4	2.0	17
V06P08	Fulton Creek	46.9	0.22	04/08/2009 12:35	24	11	0.20	2.5	6.25	0.024	6.274				3	2.0	19
V06P08	Fulton Creek	46.9	0.22	05/21/2009 11:58	32	10		2.3	1.28	0.020	1.300	0.013			2	2.0	20
V06P08	Fulton Creek	46.9	0.22	05/27/2009 10:05	36	10	0.20	2.5	0.15	0.020	0.170				3	2.0	24
V06P08	Fulton Creek	46.9	0.22	06/08/2009 12:06	36	17		2.6	0.12	0.020	0.140		0.091		2	2.0	28
V06P08	Fulton Creek	46.9	0.22	06/24/2009 08:25	24	10	0.20	2.6	6.48	0.108	6.589				4	2.0	13
V06P08	Fulton Creek	46.9	0.22	07/15/2009 08:30	40	31	0.20	2.8	0.59	0.020	0.610				3	2.0	30
V06P08	Fulton Creek	46.9	0.22	07/30/2009 10:30	27	30	0.20	2.9	0.33	0.020	0.350				4	2.0	32
V06P08	Fulton Creek	46.9	0.22	08/05/2009 09:15	33	35	0.20	2.4	0.18	0.020	0.200				4	2.0	31
V06P08	Fulton Creek	46.9	0.22	08/19/2009 08:30	45	112	0.20	2.8	0.33	0.020	0.350				4	2.0	38
V06P08	Fulton Creek	46.9	0.22	09/02/2009 08:50	30	17	0.20	2.6	0.63	0.020	0.650				4	2.0	32
V06P08	Fulton Creek	46.9	0.22	09/02/2009 12:15							0.000			3.2			
V06P08	Fulton Creek	46.9	0.22	09/22/2009 12:15	35	26	0.20	3.0	0.18	0.020	0.200				5	2.0	32
V06P08	<i>Fulton Creek Median</i>	46.9	0.22		34	22	0.20	2.6	0.33	0.020	0.350				4	2.0	31
300698	Goose Creek		0.30	06/25/2009 09:55	33	143	0.20	4.4	0.67	0.071	0.741				2	2.0	37
300698	Goose Creek		0.30	07/16/2009 10:00	37	1200	0.20	6.1	0.75	0.020	0.770				3	2.0	35
300698	Goose Creek		0.30	08/06/2009 10:00	33	358	0.20	5.6	0.88	0.028	0.908				2	2.0	39
300698	Goose Creek		0.30	08/20/2009 09:50	10	28	0.20	4.4	1.28	0.053	1.333				4	2.0	30
300698	Goose Creek		0.30	09/03/2009 09:45	29	255	0.20	6.3	0.10	0.020	0.120				2	2.0	36
V02P11	Honey Creek	7.3	0.10	06/25/2009 08:45					2.76	0.068	2.828						
V02P11	Honey Creek	7.3	0.10	07/16/2009 08:50					0.38	0.023	0.403						
V02P11	Honey Creek	7.3	0.10	08/06/2009 08:55					0.24	0.020	0.260						
V02P11	Honey Creek	7.3	0.10	08/20/2009 08:35					3.31	0.842	4.152						
V02P11	Honey Creek	7.3	0.10	09/03/2009 08:35					0.28	0.020	0.300						
V02P11	<i>Honey Creek Median</i>	7.3	0.10						0.38	0.023	0.403						
V02G05	Kebler Run	14.3	0.87	02/10/2009 12:30	15	42	0.20	4.0	9.33	0.022	9.352				3	2.0	9
V02G05	Kebler Run	14.3	0.87	03/11/2009 12:25	26	12	0.20	2.3	8.24	0.020	8.260				2	2.0	11
V02G05	Kebler Run	14.3	0.87	04/08/2009 12:25	29	10	0.20	2.0	7.83	0.022	7.852				2	2.1	11
V02G05	Kebler Run	14.3	0.87	05/21/2009 11:46	34	17		2.3	4.80	0.043	4.843	0.010			2	2.0	11
V02G05	Kebler Run	14.3	0.87	06/08/2009 11:51	38	31		2.4	1.06	0.031	1.091		0.010		2	2.0	14
V02G05	Kebler Run	14.3	0.87	06/24/2009 10:05	32	17	0.20	2.2	6.56	0.042	6.602				2	2.0	10
V02G05	Kebler Run	14.3	0.87	07/15/2009 10:20	39	36	0.20	2.2	0.42	0.020	0.440				2	2.0	10
V02G05	Kebler Run	14.3	0.87	07/30/2009 10:15	36	44	0.20	2.6	0.29	0.020	0.310				3	2.0	13
V02G05	Kebler Run	14.3	0.87	08/05/2009 10:15	36	49	0.20	2.0	0.31	0.020	0.330				3	2.0	13
V02G05	Kebler Run	14.3	0.87	08/19/2009 10:05	43	148	0.20	2.4	0.38	0.020	0.400				3	2.0	10
V02G05	Kebler Run	14.3	0.87	09/02/2009 10:10	33	32	0.20	2.2	0.33	0.020	0.350				2	2.0	12
V02G05	Kebler Run	14.3	0.87	09/02/2009 14:15							0.000			3.5			
V02G05	Kebler Run	14.3	0.87	09/22/2009 12:05	41	45	0.20	2.8	0.31	0.020	0.330				2	2.0	10
V02G05	<i>Kebler Run Median</i>	14.3	0.87		36	36	0.20	2.3	0.38	0.020	0.375				2	2.0	11
V02G02	Little Scioto River	12.8	25.59	06/25/2009 08:40					2.30	0.071	2.371						
V02G02	Little Scioto River	12.8	25.59	07/16/2009 08:45					0.13	0.028	0.158						
V02G02	Little Scioto River	12.8	25.59	08/06/2009 08:50					0.17	0.020	0.190						
V02G02	Little Scioto River	12.8	25.59	08/20/2009 08:40					0.13	0.020	0.150						
V02G02	Little Scioto River	12.8	25.59	09/03/2009 08:25					0.18	0.020	0.200						
V02G02	<i>Little Scioto River Median</i>	12.8	25.59						0.17	0.020	0.190						
V02G01	Little Scioto River	33	19.70	06/25/2009 08:55	22	28	0.20	2.9	5.32	0.024	5.344				2	2.0	12
V02G01	Little Scioto River	33	19.70	07/16/2009 09:00	27	105	0.20	3.3	0.14	0.020	0.160				2	2.0	26
V02G01	Little Scioto River	33	19.70	08/06/2009 09:00	14	61	0.20	2.7	0.94	0.020	0.960				6	2.0	23
V02G01	Little Scioto River	33	19.70	08/20/2009 08:50	16	226	0.20	3.4	0.10	0.020	0.120				4	2.0	23
V02G01	Little Scioto River	33	19.70	09/03/2009 08:40	15	41	0.20	3.4	3.38	0.020	3.400				7	2.0	24
V02G01	<i>Little Scioto River Median</i>	33	19.70		16	61	0.2	3.3	0.94	0.020	0.960				4	2.0	23
V02S01	Little Scioto River	47	11.10	02/10/2009 11:05	12	56	0.20	4.7	6.96	0.020	6.980				2	2.0	15
V02S01	Little Scioto River	47	11.10	03/11/2009 10:35	12	92	0.20	11.8	6.89	0.020	6.910				4	2.0	10
V02S01	Little Scioto River	47	11.10	04/08/2009 10:50	20	23	0.20	2.3	4.20	0.022	4.222				2	2.0	25
V02S01	Little Scioto River	47	11.10	05/21/2009 10:35	24	65		3.3	4.44	0.023	4.463	0.011			2	2.0	15
V02S01	Little Scioto River	47	11.10	05/27/2009 08:30	23	74	0.20	3.2	2.25	0.052	2.302				2	2.0	15
V02S01	Little Scioto River	47	11.10	06/08/2009 10:29	21	53		3.6	6.56	0.044	6.604				2	2.0	13
V02S01	Little Scioto River	47	11.10	06/25/2009 09:25	21	50	0.20	3.4	5.36	0.027	5.387				2	2.0	12
V02S01	Little Scioto River	47	11.10	07/16/2009 09:35	25	86	0.20	2.9	0.13	0.020	0.150				2	2.0	17
V02S01	Little Scioto River	47	11.10	07/30/2009 08:30	23	64	0.20	3.6		0.020	0.020				3	2.0	29
V02S01	Little Scioto River	47	11.10	08/06/2009 09:35	16	61	0.20	3.2	0.45	0.020	0.470				4	2.0	23
V02S01	Little Scioto River	47	11.10	08/20/2009 09:25	12	145	0.20	3.8	1.34	0.052	1.392				3	2.0	46
V02S01	Little Scioto River	47	11.10	09/02/2009 16:50							0.000			3.4			
V02S01	Little Scioto River	47	11.10	09/03/2009 09:15	15	73	0.20	4.4	3.18	0.020	3.200				5	2.0	21
V02S01	Little Scioto River	47	11.10	09/22/2009 10:35	20	138	0.20	3.2	1.90	0.062	1.962				6	2.0	60
V02S01	<i>Little Scioto River Median</i>	47	11.10		21	69	0.20	3.4	2.25	0.025	1.962				3	2.0	19
V02S13	Little Scioto River	73	9.24	06/25/2009 10:10					4.43	0.021	4.451						
V02S13	Little Scioto River	73	9.24	07/16/2009 10:10					0.17	0.020	0.190						
V02S13	Little Scioto River	73	9.24	08/06/2009 10:20					0.35	0.020	0.370						
V02S13	Little Scioto River	73	9.24	08/20/2009 09:50					0.29	0.020	0.310						
V02S13	Little Scioto River	73	9.24	09/03/2009 09:55					1.27	0.020	1.290						
V02S13	<i>Little Scioto River Median</i>	73	9.24						0.35	0.020	0.370						
300624	Little Scioto River	86	6.50	06/25/2009 09:46	25	63	0.20	4.0	4.91	0.033	4.943				2	2.0	14

Station	River or Stream	DA	RM	Date/Time	Magnesium	Manganese	Mercury	Nickel	Nitrate+nitrite	Nitrite	TIN	Orthophosphate	phosphate, diss	Pheophytin a	Potassium	Selenium	Sodium
300624	Little Scioto River	86	6.50	07/16/2009 09:35	32	166	0.20	3.6	0.23	0.020	0.250				3	2.0	39
300624	Little Scioto River	86	6.50	08/06/2009 09:45	26	122	0.20	4.2	1.01	0.039	1.049				5	2.0	51
300624	Little Scioto River	86	6.50	08/20/2009 09:25	7	107	0.20	3.3	0.61	0.039	0.649				6	2.0	25
300624	Little Scioto River	86	6.50	09/03/2009 09:20	21	109	0.20	4.9	1.56	0.020	1.580				5	2.0	30
300624	Little Scioto River Median	86	6.50		25	109	0.2	4.0	1.01	0.033	1.049				5	2.0	30
V02S11	Marion WWTP	86	6.39	06/25/2009 09:20	23	12	0.20	14.5	3.34	0.054	3.394				24	2.0	110
V02S11	Marion WWTP	86	6.39	07/16/2009 09:20	22	12	0.20	8.2	4.77	0.105	4.875				16	2.0	137
V02S11	Marion WWTP	86	6.39	08/06/2009 09:25	24	10	0.20	12.7	5.19	0.100	5.290				15	2.0	127
V02S11	Marion WWTP	86	6.39	08/20/2009 09:10	12	103	0.20	7.4	1.08	0.135	1.215				9	2.0	69
V02S11	Marion WWTP	86	6.39	09/03/2009 09:10	23	10	0.20	10.4	3.64	0.036	3.676				21	2.0	123
V02S11	Marion WWTP Median	86	6.39		23	12	0.2	10.4	3.64	0.100	3.676				16	2.0	123
V02P10	Little Scioto River	86	5.74	06/25/2009 09:10	24	88	0.20	8.7	4.37	0.052	4.422				9	2.0	47
V02P10	Little Scioto River	86	5.74	07/16/2009 09:10	25	86	0.20	8.0	3.18	0.071	3.251				13	2.0	109
V02P10	Little Scioto River	86	5.74	08/06/2009 09:15	25	63	0.20	11.4	3.68	0.080	3.760				12	2.0	114
V02P10	Little Scioto River	86	5.74	08/20/2009 09:00	15	113	0.20	9.5	1.00	0.135	1.135				13	2.0	87
V02P10	Little Scioto River	86	5.74	09/03/2009 09:00	22	70	0.20	9.5	2.53	0.025	2.555				15	2.0	89
V02P10	Little Scioto River Median	86	5.74		24	86	0.2	9.5	3.18	0.071	3.251				13	2.0	89
V02P07	Little Scioto River	113	0.39	02/10/2009 11:35	13	49	0.20	4.5	5.74	0.025	5.765				4	2.0	26
V02P07	Little Scioto River	113	0.39	03/11/2009 11:25	16	61	0.20	8.3	5.84	0.024	5.864				4	2.0	24
V02P07	Little Scioto River	113	0.39	04/08/2009 11:35	24	34	0.20	3.7	3.46	0.057	3.517				7	2.0	50
V02P07	Little Scioto River	113	0.39	05/21/2009 10:00	29	122		6.6	3.21	0.084	3.294	0.414			8	2.0	52
V02P07	Little Scioto River	113	0.39	05/27/2009 09:15	28	98	0.20	5.6	3.59	0.072	3.662				5	2.0	46
V02P07	Little Scioto River	113	0.39	06/08/2009 11:05	24	68		5.9	6.43	0.071	6.501		0.499		5	2.0	39
V02P07	Little Scioto River	113	0.39	06/24/2009 09:00	24	68	0.20	6.2	5.50	0.105	5.605				6	2.0	40
V02P07	Little Scioto River	113	0.39	07/16/2009 08:30	26	72	0.20	6.0	5.70	0.138	5.838				10	2.0	87
V02P07	Little Scioto River	113	0.39	07/30/2009 09:25	24	69	0.20	7.7	3.42	0.065	3.485				7	2.0	83
V02P07	Little Scioto River	113	0.39	08/06/2009 08:35	25	67	0.20	6.9	4.26	0.083	4.343				9	2.0	87
V02P07	Little Scioto River	113	0.39	08/20/2009 08:15	10	177	0.20	8.2	1.60	0.112	1.712				4	2.0	27
V02P07	Little Scioto River	113	0.39	09/02/2009 16:20							0.000			2.1			
V02P07	Little Scioto River	113	0.39	09/03/2009 08:15	22	56	0.20	6.9	2.40	0.029	2.429				9	2.0	71
V02P07	Little Scioto River	113	0.39	09/22/2009 11:10	25	51	0.20	8.4	3.29	0.061	3.351				9	2.0	91
V02P07	Little Scioto River Median	113	0.39		25	69	0.20	6.8	3.51	0.078	3.485				8	2.0	62
300690	McCoy Run	8	0.55	06/22/2009 11:25					6.47	0.045	6.515						
300690	McCoy Run	8	0.55	07/13/2009 11:10					0.10	0.020	0.120						
300690	McCoy Run	8	0.55	08/03/2009 10:50					0.10	0.020	0.120						
300690	McCoy Run	8	0.55	08/17/2009 11:10					0.10	0.020	0.120						
300690	McCoy Run	8	0.55	08/31/2009 10:45					0.10	0.020	0.120						
300690	McCoy Run	8	0.55	09/02/2009 13:23							0.000			3.3			
300690	McCoy Run Median	8	0.55						0.10	0.020	0.120						
V01K05	McDonald Creek	2.6	9.17	06/23/2009 09:00					6.90	0.080	6.980						
V01K05	McDonald Creek	2.6	9.17	07/14/2009 08:15					3.61	0.273	3.883						
V01K05	McDonald Creek	2.6	9.17	08/04/2009 08:55					4.08	0.342	4.422						
V01K05	McDonald Creek	2.6	9.17	08/18/2009 08:25					0.10	0.020	0.120						
V01K05	McDonald Creek	2.6	9.17	09/01/2009 08:20					0.78	0.020	0.800						
V01K05	McDonald Creek Median	2.6	9.17						3.61	0.080	3.883						
V01W34	McDonald Creek	6.3	6.82	06/23/2009 09:05					8.06	0.195	8.256						
V01W34	McDonald Creek	6.3	6.82	07/14/2009 08:30					0.10	0.020	0.120						
V01W34	McDonald Creek	6.3	6.82	08/04/2009 09:05					0.10	0.020	0.120						
V01W34	McDonald Creek	6.3	6.82	08/18/2009 08:35					0.10	0.020	0.120						
V01W34	McDonald Creek	6.3	6.82	09/01/2009 08:30					0.58	0.040	0.620						
V01W34	McDonald Creek	6.3	6.82	09/02/2009 15:37							0.000			41.1			
V01W34	McDonald Creek	6.3	6.82	09/02/2009 15:48							0.000			5.5			
V01W34	McDonald Creek Median	6.3	6.82						0.10	0.020	0.120						
203089	McDonald Creek	12.3	2.70	06/23/2009 10:00	32	18	0.20	3.2	8.33	0.165	8.495				5	2.0	14
203089	McDonald Creek	12.3	2.70	07/14/2009 09:30	44	91	0.20	3.6	0.10	0.020	0.120				5	2.0	35
203089	McDonald Creek	12.3	2.70	08/04/2009 10:05	28	139	0.20	4.2	0.10	0.020	0.120				7	2.0	22
203089	McDonald Creek	12.3	2.70	08/18/2009 09:40	32	594	0.20	4.3	0.10	0.020	0.120				7	2.0	26
203089	McDonald Creek	12.3	2.70	09/01/2009 09:30	17	55	0.20	3.6	1.08	0.041	1.121				7	2.0	12
203089	McDonald Creek	12.3	2.70	09/01/2009 16:35							0.000			5.4			
203089	McDonald Creek Median	12.3	2.70						0.10	0.020	0.120						
V02S14	N. Rock Swale Ditch	7.3	2.55	06/25/2009 10:15	29	115	0.20	3.2	2.89	0.030	2.920				3	2.0	41
V02S14	N. Rock Swale Ditch	7.3	2.55	07/16/2009 10:15	39	515	0.20	4.7	0.13	0.020	0.150				7	2.0	125
V02S14	N. Rock Swale Ditch	7.3	2.55	08/06/2009 10:30	44	136	0.20	4.3	0.40	0.020	0.420				9	2.0	121
V02S14	N. Rock Swale Ditch	7.3	2.55	08/20/2009 10:00	11	36	0.20	2.4	0.29	0.020	0.310				3	2.0	41
V02S14	N. Rock Swale Ditch	7.3	2.55	09/03/2009 10:00	24	237	0.20	11.3	0.10	0.020	0.120				4	2.0	18
V02S14	N. Rock Swale Ditch Median	7.3	2.55		29	136	0.2	4.3	0.29	0.020	0.310				4	2.0	41
V02W15	N. Rock Swale Ditch	10	0.55	06/25/2009 09:50	34	37	0.20	3.3	2.78	0.133	2.913				3	2.0	49
V02W15	N. Rock Swale Ditch	10	0.55	07/16/2009 09:55	40	479	0.20	3.7	0.10	0.020	0.120				7	2.0	113
V02W15	N. Rock Swale Ditch	10	0.55	08/06/2009 10:00	36	244	0.20	4.3	0.10	0.020	0.120				5	2.0	93
V02W15	N. Rock Swale Ditch	10	0.55	08/20/2009 09:40	23	195	0.20	3.6	0.32	0.020	0.340				7	2.0	76
V02W15	N. Rock Swale Ditch	10	0.55	09/03/2009 09:40	34	112	0.20	5.3	0.30	0.036	0.336				7	2.0	110
V02W15	N. Rock Swale Ditch Median	10	0.55		34	195	0.2	3.7	0.30	0.020	0.336				7	2.0	93
V02G06	Ottawa Creek	8	0.08	06/24/2009 09:50					4.97	0.041	5.011						
V02G06	Ottawa Creek	8	0.08	07/15/2009 10:05					0.14	0.020	0.160						
V02G06	Ottawa Creek	8	0.08	08/05/2009 10:30					0.12	0.020	0.140						
V02G06	Ottawa Creek	8	0.08	08/19/2009 09:55					0.14	0.020	0.160						
V02G06	Ottawa Creek	8	0.08	09/02/2009 09:55					0.13	0.020	0.150						

Station	River or Stream	DA	RM	Date/Time	Magnesium	Manganese	Mercury	Nickel	Nitrate+nitrite	Nitrite	TIN	Orthophosphate	phosphate, diss	Pheophytin a	Potassium	Selenium	Sodium
V02G06	Ottawa Creek Median	8	0.08						0.14	0.020	0.160						
V01W28	Panther Creek	7.1	8.91	06/22/2009 10:00					5.99	0.090	9.990						
V01W28	Panther Creek	7.1	8.91	07/13/2009 09:45					0.38	0.020	0.400						
V01W28	Panther Creek	7.1	8.91	08/03/2009 09:50					0.36	0.020	0.380						
V01W28	Panther Creek	7.1	8.91	08/17/2009 09:50					0.10	0.020	0.120						
V01W28	Panther Creek	7.1	8.91	08/31/2009 12:45					0.38	0.020	0.400						
V01W28	Panther Creek Median	7.1	8.91						0.38	0.020	0.400						
300704	Panther Creek	11	7.80	06/22/2009 09:50					9.19	0.075	9.195						
300704	Panther Creek	11	7.80	07/13/2009 09:35					0.22	0.020	0.240						
300704	Panther Creek	11	7.80	08/03/2009 09:35					0.20	0.020	0.220						
300704	Panther Creek	11	7.80	08/17/2009 09:35					0.10	0.020	0.120						
300704	Panther Creek	11	7.80	08/31/2009 12:55					0.56	0.020	0.580						
300704	Panther Creek Median	11	7.80						0.22	0.020	0.240						
V01W30	Panther Creek	22.3	1.80	06/22/2009 08:50	26	21	0.20	2.8	12.10	0.233	12.333				3	2.0	16
V01W30	Panther Creek	22.3	1.80	07/13/2009 08:40	35	92		3.5	0.19	0.020	0.210				4	2.0	25
V01W30	Panther Creek	22.3	1.80	08/03/2009 08:40	37	194	0.20	3.9	0.10	0.020	0.120				7	2.0	134
V01W30	Panther Creek	22.3	1.80	08/17/2009 08:40	38	1880	0.20	4.3	0.10	0.020	0.120				8	2.0	139
V01W30	Panther Creek	22.3	1.80	08/31/2009 10:20	25	45	0.20	3.4	0.93	0.050	0.980				7	2.0	46
V01W30	Panther Creek Median	22.3	1.80		35	92	0.2	3.5	0.19	0.020	0.210				7	2.0	46
300699	Patton Run	14.4	2.25	06/24/2009 09:15					5.39		5.390						
300699	Patton Run	14.4	2.25	07/15/2009 09:20					0.19	0.020	0.210						
300699	Patton Run	14.4	2.25	08/05/2009 09:30					0.10	0.020	0.120						
300699	Patton Run	14.4	2.25	08/19/2009 09:10					0.10	0.020	0.120						
300699	Patton Run	14.4	2.25	09/02/2009 09:15					0.16	0.020	0.180						
300699	Patton Run Median	14.4	2.25						0.16	0.020	0.180						
V02G03	Rock Fork	7.6	8.13	06/25/2009 09:10					5.99	0.065	6.055						
V02G03	Rock Fork	7.6	8.13	07/16/2009 09:20					0.25	0.020	0.270						
V02G03	Rock Fork	7.6	8.13	08/06/2009 09:15					0.10	0.020	0.120						
V02G03	Rock Fork	7.6	8.13	08/20/2009 09:05					0.10	0.020	0.120						
V02G03	Rock Fork	7.6	8.13	09/03/2009 08:55					0.10	0.020	0.120						
V02G03	Rock Fork Median	7.6	8.13						0.10	0.020	0.120						
V02P09	Rock Fork	23.1	1.10	02/10/2009 11:15	14	114	0.20	8.4	5.94	0.020	5.960				3	2.0	14
V02P09	Rock Fork	23.1	1.10	03/11/2009 10:45	19	45	0.20	7.5	6.72	0.020	6.740				3	2.0	20
V02P09	Rock Fork	23.1	1.10	04/08/2009 10:55	24	16	0.20	3.6	4.25	0.020	4.270				2	2.0	29
V02P09	Rock Fork	23.1	1.10	05/21/2009 10:46	34	24		5.0	2.80	0.061	2.861	0.014			2	2.0	20
V02P09	Rock Fork	23.1	1.10	05/27/2009 08:45	32	39	0.20	4.8	1.61	0.065	1.675				2	2.0	20
V02P09	Rock Fork	23.1	1.10	06/08/2009 10:37	22	28		3.8	6.58	0.044	6.624		0.053		2	2.0	13
V02P09	Rock Fork	23.1	1.10	06/25/2009 09:35	30	37	0.20	4.7	2.78	0.020	2.800				2	2.0	17
V02P09	Rock Fork	23.1	1.10	07/16/2009 09:45	38	62	0.20	4.0	0.11	0.020	0.130				2	2.0	25
V02P09	Rock Fork	23.1	1.10	07/30/2009 08:45	32	50	0.20	5.0	0.22	0.020	0.240				3	2.0	30
V02P09	Rock Fork	23.1	1.10	08/06/2009 09:45	39	46	0.20	4.3	0.12	0.020	0.140				3	2.0	28
V02P09	Rock Fork	23.1	1.10	08/20/2009 09:40	38	56	0.20	4.0	0.34	0.020	0.360				3	2.0	25
V02P09	Rock Fork	23.1	1.10	09/03/2009 09:35	38	29	0.20	5.6	0.59	0.020	0.610				3	2.0	23
V02P09	Rock Fork	23.1	1.10	09/22/2009 10:45	42	25	0.20	4.6	0.35	0.020	0.370				3	2.0	28
V02P09	Rock Fork Median	23.1	1.10		36	38	0.20	4.7	0.47	0.020	0.490				3	2.0	24
300693	Rush Creek	11.8	39.45	06/23/2009 08:45	32	138	0.20	2.9	0.38	0.027	0.407				2	2.0	7
300693	Rush Creek	11.8	39.45	07/14/2009 08:30	35	165	0.20	2.5	0.20	0.020	0.220				2	2.0	6
300693	Rush Creek	11.8	39.45	08/04/2009 08:35	36	131	0.20	2.2		0.020	0.020				2	2.0	6
300693	Rush Creek	11.8	39.45	08/18/2009 08:20	35	204	0.20	2.2	0.24	0.020	0.260				2	2.0	5
300693	Rush Creek	11.8	39.45	09/01/2009 08:25	35	91	0.20	2.2	0.16	0.020	0.180				2	2.0	6
300693	Rush Creek Median	11.8	39.45		35	138	0.2	2.2	0.22	0.020	0.220				2	2.0	6
300694	Rush Creek	14.8	36.15	06/23/2009 09:10	37	58	0.20	4.2	0.80	0.020	0.820				3	2.0	15
300694	Rush Creek	14.8	36.15	07/14/2009 08:45	42	36	0.20	3.6	0.84	0.020	0.860				3	2.0	16
300694	Rush Creek	14.8	36.15	08/04/2009 08:50	41	28	0.20	3.6	1.33	0.020	1.350				3	2.0	24
300694	Rush Creek	14.8	36.15	08/18/2009 08:35	46	42	0.20	3.6	2.18	0.020	2.200				4	2.0	31
300694	Rush Creek	14.8	36.15	09/01/2009 08:50	41	33	0.20	3.6	1.42	0.020	1.440				3	2.0	31
300694	Rush Creek Median	14.8	36.15		41	36	0.2	3.6	1.33	0.020	1.350				3	2.0	24
300695	Rush Creek	25.7	26.26	06/23/2009 09:30	31	26	0.20	3.0	5.85	0.025	5.875				3	2.0	12
300695	Rush Creek	25.7	26.26	07/14/2009 09:15	38	72	0.20	3.6	0.28	0.020	0.300				3	2.0	19
300695	Rush Creek	25.7	26.26	08/04/2009 09:15	33	91	0.20	4.0	0.10	0.020	0.120				4	2.0	19
300695	Rush Creek	25.7	26.26	08/18/2009 09:00	36	96	0.20	3.7	0.12	0.020	0.140				4	2.0	22
300695	Rush Creek	25.7	26.26	09/01/2009 09:15	30	69	0.20	3.9	0.23	0.020	0.250				4	2.0	21
300695	Rush Creek Median	25.7	26.26		33	72	0.2	3.7	0.23	0.020	0.250				4	2.0	19
300696	Rush Creek	50	14.50	06/23/2009 09:55	27	40	0.20	3.8	9.66	0.117	9.777				3	2.0	11
300696	Rush Creek	50	14.50	07/14/2009 09:40	35	55	0.20	3.5	0.10	0.020	0.120				3	2.0	17
300696	Rush Creek	50	14.50	08/04/2009 09:40	31	85	0.20	5.1	0.24	0.020	0.260				4	2.0	20
300696	Rush Creek	50	14.50	08/18/2009 09:25	34	189	0.20	3.5	0.10	0.020	0.120				4	2.0	21
300696	Rush Creek	50	14.50	09/01/2009 09:40	13	39	0.20	3.8	1.18	0.020	1.200				4	2.0	9
300696	Rush Creek Median	50	14.50		31	55	0.2	3.8	0.24	0.020	0.260				4	2.0	17
V01S01	Rush Creek	77	5.39	03/11/2009 11:45	23	41	0.20	4.2	5.15	0.021	5.171				3	2.0	15
V01S01	Rush Creek	77	5.39	04/08/2009 11:50	26	31	0.20	3.2	4.86	0.021	4.881				3	2.0	14
V01S01	Rush Creek	77	5.39	05/07/2009 09:25	25	57	0.20	4.1	2.65		2.650				3	2.0	11
V01S01	Rush Creek	77	5.39	05/21/2009 09:45	31	51		3.6	4.97	0.020	4.990	0.016			2	2.0	13
V01S01	Rush Creek	77	5.39	06/08/2009 09:52	33	71		4.2	1.83	0.020	1.850		0.037		3	2.0	16
V01S01	Rush Creek	77	5.39	06/23/2009 10:40	23	59	0.20	4.2	8.67	0.231	8.901				4	2.0	9
V01S01	Rush Creek	77	5.39	06/30/2009 16:38	30	48		3.5	1.35	0.020	1.370		0.051		3	2.0	14
V01S01	Rush Creek	77	5.39	06/30/2009 17:00							0.000			3.1			

Station	River or Stream	DA	RM	Date/Time	Magnesium	Manganese	Mercury	Nickel	Nitrate+nitrite	Nitrite	TIN	Orthophosphate	phosphate, diss	Pheophytin_a	Potassium	Selenium	Sodium
V01S01	Rush Creek	77	5.39	06/30/2009 17:29							0.000			48.3			
V01S01	Rush Creek	77	5.39	07/14/2009 10:20	34	104	0.20	3.2	0.10	0.020	0.120				3	2.0	17
V01S01	Rush Creek	77	5.39	07/29/2009 11:10	31	107	0.20	3.8	0.39	0.020	0.410				3	2.0	18
V01S01	Rush Creek	77	5.39	08/04/2009 10:20	28	132	0.20	4.7	0.99	0.020	1.010				4	2.0	16
V01S01	Rush Creek	77	5.39	08/18/2009 10:20	35	317	0.20	3.0	0.28	0.020	0.300				3	2.0	17
V01S01	Rush Creek	77	5.39	09/01/2009 10:25	14	85	0.20	4.8	1.56	0.020	1.580				4	2.0	9
V01S01	Rush Creek	77	5.39	09/22/2009 11:30	29	127	0.20	3.0	0.14	0.020	0.160				4	2.0	16
V01S01	Rush Creek Median	77	5.39		30	85	0.20	3.8	1.35	0.020	1.010				3	2.0	16
V01K04	Rush Creek	105	0.55	06/23/2009 11:00	22	77	0.20	5.0	8.91	0.361	9.271				4	2.0	9
V01K04	Rush Creek	105	0.55	07/14/2009 10:40	35	108	0.20	3.0	0.10	0.020	0.120				3	2.0	17
V01K04	Rush Creek	105	0.55	08/04/2009 10:40	31	169	0.20	6.5	0.13	0.020	0.150				4	2.0	18
V01K04	Rush Creek	105	0.55	08/18/2009 10:35	36	535	0.20	3.9	0.10	0.020	0.120				4	2.0	19
V01K04	Rush Creek	105	0.55	09/01/2009 10:45	14	90	0.20	5.0	1.63	0.020	1.650				5	2.0	9
V01K04	Rush Creek Median	105	0.55		31	108	0.2	5.0	0.13	0.020	0.150				4	2.0	17
V01W18	Scioto River	18.3	234.39	02/10/2009 08:35	13	61	0.20	5.8	8.13	0.020	8.150				3	2.0	7
V01W18	Scioto River	18.3	234.39	03/11/2009 08:45	19	35	0.20	7.1	8.61	0.020	8.630				3	2.9	10
V01W18	Scioto River	18.3	234.39	04/08/2009 08:30	21	14	0.20	2.5	9.28	0.020	9.300				2	3.6	7
V01W18	Scioto River	18.3	234.39	05/21/2009 08:00	30	38		2.3	6.99	0.031	7.011	0.010			2	2.1	9
V01W18	Scioto River	18.3	234.39	06/08/2009 08:00	31	41		2.9	5.01	0.045	5.055		0.010		2	2.0	10
V01W18	Scioto River	18.3	234.39	06/22/2009 09:00	30	42	0.20	2.8	5.61	0.035	5.645				2	2.0	9
V01W18	Scioto River	18.3	234.39	06/30/2009 10:35							0.000			61.4			
V01W18	Scioto River	18.3	234.39	06/30/2009 10:54							0.000			6.3			
V01W18	Scioto River	18.3	234.39	07/13/2009 08:40	40	292	0.20	3.4	0.10	0.020	0.120				2	2.0	12
V01W18	Scioto River	18.3	234.39	07/29/2009 08:40	39	251	0.20	2.9	0.10	0.025	0.125				2	2.0	17
V01W18	Scioto River	18.3	234.39	08/03/2009 08:35	40	191	0.20	2.9	0.10	0.020	0.120				2	2.0	12
V01W18	Scioto River	18.3	234.39	08/17/2009 08:40	43	276	0.20	2.9	0.10	0.020	0.120				2	2.0	13
V01W18	Scioto River	18.3	234.39	08/31/2009 08:40	42	138	0.20	2.5	0.45	0.020	0.470				2	2.0	12
V01W18	Scioto River	18.3	234.39	09/22/2009 08:25	42	184	0.20	3.1	0.10	0.020	0.120				3	2.0	12
V01W18	Scioto River Median	18.3	234.39		40	184	0.20	2.9	0.10	0.020	0.120				2	2.0	12
V01W19	Scioto River	28	231.86	06/22/2009 08:40	33	32	0.20	2.8	3.91	0.030	3.940				2	2.0	11
V01W19	Scioto River	28	231.86	07/13/2009 08:30	40	64	0.20	3.4	0.29	0.020	0.310				3	2.0	12
V01W19	Scioto River	28	231.86	08/03/2009 08:25	40	56	0.20	2.6	0.20	0.020	0.220				3	2.0	12
V01W19	Scioto River	28	231.86	08/17/2009 08:25	40	60	0.20	2.9	0.23	0.020	0.250				3	2.0	12
V01W19	Scioto River	28	231.86	08/31/2009 08:30	40	36	0.20	2.4	0.16	0.020	0.180				3	2.0	13
V01W19	Scioto River Median	28	231.86		40	56	0.2	2.8	0.23	0.020	0.250				3	2.0	12
201834	Scioto River	49	226.30	06/22/2009 09:40	34	124	0.20	5.9	4.90	0.069	4.969				2	2.0	11
201834	Scioto River	49	226.30	07/13/2009 09:20	39	197	0.20	5.8	0.56	0.025	0.585				4	2.0	14
201834	Scioto River	49	226.30	08/03/2009 09:10	37	153	0.20	5.6	0.45	0.020	0.470				4	2.0	14
201834	Scioto River	49	226.30	08/17/2009 09:30	41	308	0.20	5.7	0.29	0.020	0.310				3	2.0	16
201834	Scioto River	49	226.30	08/31/2009 09:15	40	109	0.20	3.8	0.35	0.020	0.370				3	2.0	15
201834	Scioto River Median	49	226.30		39	153	0.2	5.7	0.45	0.020	0.470				3	2.0	14
V01P06	Scioto River	62	224.20	06/22/2009 10:00	37	133	0.20	6.9	6.04	0.060	6.100				2	2.0	11
V01P06	Scioto River	62	224.20	07/13/2009 09:40	40	222	0.20	7.2	0.47	0.024	0.494				3	2.0	15
V01P06	Scioto River	62	224.20	08/03/2009 09:30	39	217	0.20	11.8	0.58	0.020	0.600				3	2.0	15
V01P06	Scioto River	62	224.20	08/17/2009 09:50	42	264	0.20	7.4	0.15	0.020	0.170				3	2.0	16
V01P06	Scioto River	62	224.20	08/31/2009 09:30	39	169	0.20	5.6	0.45	0.020	0.470				4	2.0	15
V01P06	Scioto River Median	62	224.20		39	217	0.2	7.2	0.47	0.020	0.494				3	2.0	15
V01W20	Scioto River	67	223.05	06/22/2009 10:15	38	128	0.20	8.0	8.91	0.060	6.970				2	2.0	11
V01W20	Scioto River	67	223.05	07/13/2009 09:55	41	244	0.20	8.0	1.06	0.020	1.080				3	2.0	15
V01W20	Scioto River	67	223.05	08/03/2009 09:50	39	227	0.20	8.7	0.36	0.020	0.380				3	2.0	16
V01W20	Scioto River	67	223.05	08/17/2009 10:00	42	269	0.20	8.2	0.10	0.020	0.120				3	2.0	16
V01W20	Scioto River	67	223.05	08/31/2009 09:40	36	176	0.20	7.0	0.46	0.020	0.480				4	2.0	14
V01W20	Scioto River Median	67	223.05		39	227	0.2	8.0	0.46	0.020	0.480				3	2.0	15
610770	Scioto River	117	216.67	06/22/2009 11:35	35	69	0.20	6.3	9.43	0.063	9.493				2	2.0	11
610770	Scioto River	117	216.67	07/13/2009 11:20	40	212	0.20	6.4	0.27	0.020	0.290				3	2.0	20
610770	Scioto River	117	216.67	08/03/2009 11:05	38	179	0.20	7.0	0.13	0.020	0.150				3	2.0	21
610770	Scioto River	117	216.67	08/17/2009 11:20	45	227	0.20	6.6	0.10	0.020	0.120				4	2.0	27
610770	Scioto River	117	216.67	08/31/2009 10:55	41	358	0.20	5.4	0.10	0.020	0.120				4	2.0	26
610770	Scioto River Median	117	216.67		40	212	0.2	6.4	0.13	0.020	0.150				3	2.0	21
V01S05	Scioto River	160	212.47	02/10/2009 09:35	18	112	0.20	8.4	8.02	0.022	8.042				4	2.3	7
V01S05	Scioto River	160	212.47	03/11/2009 09:35	21	75	0.20	14.0	8.39	0.020	8.320				4	2.0	8
V01S05	Scioto River	160	212.47	04/08/2009 09:35	25	34	0.20	4.7	9.12	0.020	9.140				2	2.4	9
V01S05	Scioto River	160	212.47	05/06/2009 09:55	31	39	0.20	4.9	7.08		7.080				2	2.0	10
V01S05	Scioto River	160	212.47	05/21/2009 08:45	36	56		4.5	4.90	0.035	4.935	0.019			2	2.0	12
V01S05	Scioto River	160	212.47	06/08/2009 08:56	37	55		5.9	6.31	0.038	6.348		0.026		2	2.0	12
V01S05	Scioto River	160	212.47	06/22/2009 11:20	32	46	0.20	5.2	9.41	0.128	9.538				3	2.0	11
V01S05	Scioto River	160	212.47	06/30/2009 13:43	36	73		5.9	2.28	0.026	2.306		0.040		2	2.0	14
V01S05	Scioto River	160	212.47	06/30/2009 14:05							0.000			5.2			
V01S05	Scioto River	160	212.47	06/30/2009 14:37							0.000			47.6			
V01S05	Scioto River	160	212.47	07/13/2009 10:45	42	110		5.3	0.13	0.020	0.150				3	2.0	27
V01S05	Scioto River	160	212.47	07/29/2009 09:45	39	115	0.20	4.9	0.18	0.020	0.200				3	2.0	25
V01S05	Scioto River	160	212.47	08/03/2009 10:50	39	173	0.20	5.8	0.10	0.020	0.120				3	2.0	23
V01S05	Scioto River	160	212.47	08/17/2009 10:55	44	269	0.20	5.3	0.10	0.020	0.120				3	2.0	27
V01S05	Scioto River	160	212.47	08/31/2009 12:00	38	88	0.20	4.6	0.10	0.020	0.120				3	2.0	27
V01S05	Scioto River	160	212.47	09/22/2009 09:20	44	128	0.20	4.5	0.10	0.020	0.120				4	2.0	26
V01S05	Scioto River Median	160	212.47		38	88	0.20	5.2	0.18	0.020	0.150				3	2.0	23
610760	Scioto River	170	210.07	06/22/2009 10:35	31	27	0.20	4.4	8.84	0.134	8.974				3	2.0	13

Station	River or Stream	DA	RM	Date/Time	Magnesium	Manganese	Mercury	Nickel	Nitrate+nitrite	Nitrite	TIN	Orthophosphate	phosphate, diss	Pheophytin a	Potassium	Selenium	Sodium
610760	Scioto River	170	210.07	07/13/2009 10:15	41	78		4.2	2.48	0.020	2.500				4	2.0	38
610760	Scioto River	170	210.07	08/03/2009 10:25	39	119	0.20	4.3	3.39	0.023	3.413				4	2.0	42
610760	Scioto River	170	210.07	08/17/2009 10:25	45	91	0.20	3.9	5.80	0.021	5.821				5	2.0	54
610760	Scioto River	170	210.07	08/31/2009 11:10	33	110	0.20	3.6	2.14	0.020	2.160				4	2.0	41
610760	Scioto River Median	170	210.07		39	91	0.2	4.2	3.39	0.021	3.413				4	2.0	41
V01W23	Scioto River	178	207.26	06/22/2009 09:20	31	31	0.20	4.5	10.40	0.167	10.567				3	2.0	13
V01W23	Scioto River	178	207.26	07/13/2009 09:05	40	62		4.3	0.10	0.024	0.124				4	2.0	41
V01W23	Scioto River	178	207.26	08/03/2009 09:15	37	132	0.20	4.4	1.62	0.020	1.640				4	2.0	41
V01W23	Scioto River	178	207.26	08/17/2009 09:15	44	161	0.20	4.9	3.38	0.039	3.419				5	2.0	58
V01W23	Scioto River	178	207.26	08/31/2009 11:00	31	63	0.20	3.2	2.38	0.020	2.400				4	2.0	43
V01W23	Scioto River Median	178	207.26		37	63	0.2	4.4	2.38	0.024	2.400				4	2.0	41
V01S11	Scioto River	223	203.36	06/22/2009 09:10	31	32	0.20	4.3	10.50	0.173	10.673				3	2.0	14
V01S11	Scioto River	223	203.36	07/13/2009 08:35	41	57		4.2	1.31	0.020	1.330				4	2.0	39
V01S11	Scioto River	223	203.36	08/03/2009 08:55	32	84	0.20	4.1	1.32	0.020	1.340				4	2.0	41
V01S11	Scioto River	223	203.36	08/17/2009 08:55	44	97	0.20	4.9	1.39	0.020	1.410				5	2.0	52
V01S11	Scioto River	223	203.36	08/31/2009 10:35	24	39	0.20	3.1	2.13	0.020	2.150				4	2.0	36
V01S11	Scioto River Median	223	203.36		32	57	0.2	4.2	1.39	0.020	1.410				4	2.0	39
V01S23	Scioto River	258	196.12	02/10/2009 10:25	15	58	0.20	5.4	7.68	0.027	7.707				4	2.0	8
V01S23	Scioto River	258	196.12	03/11/2009 10:15	21	71	0.20	7.7	8.16	0.020	8.180				4	2.0	9
V01S23	Scioto River	258	196.12	04/08/2009 10:15	23	40	0.20	5.7	9.07	0.023	9.093				3	2.1	10
V01S23	Scioto River	258	196.12	05/07/2009 09:00	31	53	0.20	4.7	6.00		6.000				3	2.0	12
V01S23	Scioto River	258	196.12	05/21/2009 09:32	33	70		4.7	1.42	0.020	1.440	0.054			3	2.0	15
V01S23	Scioto River	258	196.12	06/08/2009 09:39	35	72		6.2	7.62	0.033	7.653		0.081		3	2.0	16
V01S23	Scioto River	258	196.12	06/23/2009 09:50	30	45	0.20	4.2	9.18	0.126	9.306				3	2.0	14
V01S23	Scioto River	258	196.12	07/14/2009 09:20	39	244	0.20	5.1	0.29	0.020	0.310				4	2.0	31
V01S23	Scioto River	258	196.12	07/29/2009 10:40	35	206	0.20	5.8	1.49	0.020	1.510				4	2.0	38
V01S23	Scioto River	258	196.12	08/04/2009 09:55	35	191	0.20	5.6	0.72	0.020	0.740				4	2.0	44
V01S23	Scioto River	258	196.12	08/18/2009 09:25	41	278	0.20	5.6	0.19	0.020	0.210				5	2.0	46
V01S23	Scioto River	258	196.12	09/01/2009 09:20	29	131	0.20	5.4	2.61	0.037	2.647				6	2.0	41
V01S23	Scioto River	258	196.12	09/02/2009 09:30							0.000			7.5			
V01S23	Scioto River	258	196.12	09/22/2009 10:05	35	169	0.20	4.8	0.27	0.020	0.290				5	2.0	39
V01S23	Scioto River Median	258	196.12		35	150	0.20	5.3	1.46	0.020	1.440				4	2.0	35
V01W24	Scioto River	262	192.21	06/23/2009 10:20	30	66	0.20	4.6	9.02	0.160	9.180				3	2.0	14
V01W24	Scioto River	262	192.21	07/14/2009 09:45	39	234	0.20	5.5	0.10	0.020	0.120				4	2.0	38
V01W24	Scioto River	262	192.21	08/04/2009 10:20	35	197	0.20	6.1	0.25	0.020	0.270				4	2.0	40
V01W24	Scioto River	262	192.21	08/18/2009 09:50	39	248	0.20	6.0	0.10	0.020	0.120				4	2.0	43
V01W24	Scioto River	262	192.21	09/01/2009 09:50	30	141	0.20	6.0	2.70	0.043	2.743				6	2.0	38
V01W24	Scioto River Median	262	192.21		35	197	0.2	6.0	0.25	0.020	0.270				4	2.0	38
201831	Scioto River	379	186.00	06/23/2009 11:10	25	74	0.20	4.6	9.94	0.207	10.147				4	2.0	11
201831	Scioto River	379	186.00	07/14/2009 10:00	39	261	0.20	5.7	0.95	0.020	0.970				4	2.0	36
201831	Scioto River	379	186.00	08/04/2009 10:35	34	235	0.20	9.6	0.13	0.020	0.150				4	2.0	35
201831	Scioto River	379	186.00	08/18/2009 10:10	34	448	0.20	5.1	0.10	0.020	0.120				4	2.0	39
201831	Scioto River	379	186.00	09/01/2009 10:00	18	136	0.20	5.0	1.60	0.027	1.627				5	2.0	16
201831	Scioto River Median	379	186.00		34	235	0.2	5.1	0.95	0.020	0.970				4	2.0	35
V01W15	Scioto River	407	179.05	06/24/2009 08:45	25	69	0.20	5.1		0.136	0.136				4	2.0	11
V01W15	Scioto River	407	179.05	07/15/2009 09:05	36	364	0.20	5.4	0.10	0.020	0.120				3	2.0	31
V01W15	Scioto River	407	179.05	08/05/2009 09:15	33	356	0.20	4.8	0.10	0.020	0.120				4	2.0	44
V01W15	Scioto River	407	179.05	08/19/2009 08:45	35	335	0.20	5.0	0.10	0.020	0.120				4	2.0	39
V01W15	Scioto River	407	179.05	09/02/2009 08:55	16	139	0.20	6.0	2.10	0.026	2.126				5	2.0	13
V01W15	Scioto River Median	407	179.05		33	335	0.2	5.1	0.10	0.020	0.120				4	2.0	31
601280	Scioto River	567	169.25	02/10/2009 12:10	11	72	0.20	5.1	5.49	0.026	5.516				5	2.0	10
601280	Scioto River	567	169.25	03/11/2009 12:15	17	55	0.20	7.1	7.27	0.029	7.299				4	2.0	13
601280	Scioto River	567	169.25	04/08/2009 12:15	22	70	0.20	5.6	7.03	0.026	7.056				4	2.0	14
601280	Scioto River	567	169.25	05/21/2009 11:28	29	71		4.6	5.17	0.020	5.190	0.109			3	2.0	19
601280	Scioto River	567	169.25	05/27/2009 09:45	32	90	0.20	4.5	2.41	0.021	2.431				4	2.0	23
601280	Scioto River	567	169.25	06/08/2009 11:33	28	57		5.3	7.42	0.034	7.454		0.130		4	2.0	19
601280	Scioto River	567	169.25	06/24/2009 09:40	23	94	0.20	5.5	9.11	0.136	9.246				4	2.0	14
601280	Scioto River	567	169.25	07/15/2009 09:55	30	186	0.20	5.4	0.14	0.020	0.160				6	2.0	49
601280	Scioto River	567	169.25	07/30/2009 09:55	28	211	0.20	7.2	0.21	0.020	0.230				5	2.0	43
601280	Scioto River	567	169.25	08/05/2009 10:00	30	179	0.20	6.9	0.39	0.020	0.410				6	2.0	61
601280	Scioto River	567	169.25	08/19/2009 09:45	31	215	0.20	6.8	0.76	0.020	0.780				7	2.0	72
601280	Scioto River	567	169.25	09/02/2009 09:40	16	123	0.20	5.2	1.91	0.020	1.930				5	2.0	20
601280	Scioto River	567	169.25	09/02/2009 15:20							0.000			7.9			
601280	Scioto River	567	169.25	09/22/2009 11:55	28	149	0.20	6.0	0.78	0.020	0.800				6	2.0	55
601280	Scioto River Median	567	169.25		29	136	0.20	5.5	1.35	0.020	0.800				5	2.0	33
V01W27	Silver Creek	11.3	2.32	06/22/2009 11:55	26	17	0.20	2.9	10.50	0.208	10.708				3	2.0	8
V01W27	Silver Creek	11.3	2.32	07/13/2009 11:10	31	554		6.9	0.10	0.020	0.120				6	2.0	15
V01W27	Silver Creek	11.3	2.32	08/03/2009 11:15	22	103	0.20	3.9	0.81	0.108	0.918				6	2.0	26
V01W27	Silver Creek	11.3	2.32	08/17/2009 11:15	19	466	0.20	5.7	0.62	0.132	0.752				8	2.0	71
V01W27	Silver Creek Median	11.3	2.32														
V01S07	Taylor Creek	12.7	4.43	06/22/2009 10:20					7.59	0.044	7.634						
V01S07	Taylor Creek	12.7	4.43	07/13/2009 10:00					0.40	0.020	0.420						
V01S07	Taylor Creek	12.7	4.43	08/03/2009 10:05					0.10	0.020	0.120						
V01S07	Taylor Creek	12.7	4.43	08/17/2009 10:10					0.10	0.020	0.120						
V01S07	Taylor Creek	12.7	4.43	08/31/2009 12:30					0.10	0.020	0.120						
V01S07	Taylor Creek Median	12.7	4.43						0.10	0.020	0.120						
V01P01	Taylor Creek	16.3	0.76	02/10/2009 10:00	17	39	0.20	3.4	6.14	0.036	6.175				4	2.0	12

Station	River or Stream	DA	RM	Date/Time	Magnesium	Manganese	Mercury	Nickel	Nitrate+nitrite	Nitrite	TIN	Orthophosphate	phosphate, diss	Pheophytin a	Potassium	Selenium	Sodium
V01P01	Taylor Creek	16.3	0.76	03/11/2009 09:45	21	57	0.20	5.6	5.44	0.020	5.460				4	2.0	14
V01P01	Taylor Creek	16.3	0.76	04/08/2009 09:45	25	31	0.20	2.2	4.82	0.029	4.849				2	2.0	14
V01P01	Taylor Creek	16.3	0.76	05/06/2009 10:20	28	40	0.20	2.5	2.75		2.750				2	2.0	13
V01P01	Taylor Creek	16.3	0.76	05/21/2009 08:55	34	52		2.4	2.15	0.068	2.218	0.026			2	2.0	14
V01P01	Taylor Creek	16.3	0.76	06/08/2009 09:07	33	47		2.7	2.35	0.135	2.485		0.063		3	2.0	16
V01P01	Taylor Creek	16.3	0.76	06/22/2009 11:10	32	39	0.20	2.5	5.58	0.296	6.876				3	2.0	25
V01P01	Taylor Creek	16.3	0.76	06/30/2009 15:12	40	69		2.8	1.48	0.476	1.956		0.134		3	2.0	45
V01P01	Taylor Creek	16.3	0.76	06/30/2009 15:23							0.000			18.8			
V01P01	Taylor Creek	16.3	0.76	06/30/2009 15:45							0.000			108.0			
V01P01	Taylor Creek	16.3	0.76	07/13/2009 11:00	47	109		2.6	0.25	0.048	0.299				3	2.0	61
V01P01	Taylor Creek	16.3	0.76	07/29/2009 10:00	43	1170	0.20	2.3	1.56	0.020	1.580				3	2.0	47
V01P01	Taylor Creek	16.3	0.76	08/03/2009 11:00	37	84	0.20	2.3	0.10	0.051	0.151				3	2.0	33
V01P01	Taylor Creek	16.3	0.76	08/17/2009 11:05	49	87	0.20	2.9	0.10	0.020	0.120				2	2.0	62
V01P01	Taylor Creek	16.3	0.76	08/31/2009 11:45	26	29	0.20	2.0	0.10	0.020	0.120				3	2.0	32
V01P01	Taylor Creek	16.3	0.76	09/22/2009 09:30	42	117	0.20	3.0	0.12	0.020	0.140				3	2.0	80
V01P01	Taylor Creek Median	16.3	0.76		37	69	0.20	2.5	1.48	0.050	0.299				3	2.0	33
300688	Wallace Fork	4.8	0.23	06/22/2009 09:25					2.88	0.036	2.916						
300688	Wallace Fork	4.8	0.23	07/13/2009 09:00					0.16	0.020	0.180						
300688	Wallace Fork	4.8	0.23	08/03/2009 08:55					0.11	0.020	0.130						
300688	Wallace Fork	4.8	0.23	08/17/2009 09:05					0.10	0.020	0.120						
300688	Wallace Fork	4.8	0.23	09/02/2009 11:51							0.000			7.5			
300688	Wallace Fork Median	4.8	0.23						0.14	0.020	0.130						
V01W31	Wildcat Creek	4.3	6.72	06/23/2009 09:15					13.10	0.261	13.361						
V01W31	Wildcat Creek	4.3	6.72	07/14/2009 08:45					2.52	0.020	2.540						
V01W31	Wildcat Creek	4.3	6.72	08/04/2009 09:15					0.22	0.020	0.240						
V01W31	Wildcat Creek	4.3	6.72	08/18/2009 08:48					0.16	0.020	0.180						
V01W31	Wildcat Creek	4.3	6.72	09/01/2009 08:15					0.45	0.026	0.476						
V01W31	Wildcat Creek Median	4.3	6.72						0.45	0.020	0.476						
300692	Wildcat Creek	8.4	4.00	06/23/2009 09:25					21.20	0.130	21.330						
300692	Wildcat Creek	8.4	4.00	07/14/2009 08:55					1.60	0.020	1.620						
300692	Wildcat Creek	8.4	4.00	08/04/2009 09:25					0.12	0.020	0.140						
300692	Wildcat Creek	8.4	4.00	08/18/2009 09:00					0.15	0.020	0.170						
300692	Wildcat Creek	8.4	4.00	09/01/2009 08:50					1.04	0.020	1.060						
300692	Wildcat Creek Median	8.4	4.00						1.04	0.020	1.060						
V01W32	Wildcat Creek	22.2	0.49	06/23/2009 09:35	29	48	0.20	3.6	10.00	0.100	10.108				3	2.0	12
V01W32	Wildcat Creek	22.2	0.49	07/14/2009 09:05	39	62	0.20	3.1	0.46	0.020	0.480				4	2.0	22
V01W32	Wildcat Creek	22.2	0.49	08/04/2009 09:40	34	108	0.20	6.3	0.60	0.020	0.620				5	2.0	23
V01W32	Wildcat Creek	22.2	0.49	08/18/2009 09:10	38	134	0.20	3.2	0.19	0.020	0.210				6	2.0	26
V01W32	Wildcat Creek	22.2	0.49	09/01/2009 09:05	25	77	0.20	4.6	0.76	0.020	0.780				8	2.0	23
V01W32	Wildcat Creek Median	22.2	0.49		34	77	0.2	3.6	0.60	0.020	0.620				5	2.0	23
300691	Wolf Creek	12	0.51	06/22/2009 09:30					16.00	0.215	16.215						
300691	Wolf Creek	12	0.51	07/13/2009 09:15					0.13	0.020	0.150						
300691	Wolf Creek	12	0.51	08/03/2009 09:20					0.11	0.020	0.130						
300691	Wolf Creek	12	0.51	08/17/2009 09:20					0.10	0.020	0.120						
300691	Wolf Creek	12	0.51	08/31/2009 10:45					0.10		0.100						
300691	Wolf Creek Median	12	0.51						0.11	0.020	0.130						

Station	River or Stream	DA	RM	Date/Time	Strontium	TKN	TDS	phosphorous, dis	total Phosphoru	TSS	Zinc
V02G07	Battle Run	9.4	0.25	06/24/2009 09:30		0.62	458		0.077	5	
V02G07	Battle Run	9.4	0.25	07/15/2009 09:40		0.46	482		0.175	5	
V02G07	Battle Run	9.4	0.25	08/05/2009 09:50		0.74	558		0.251	5	
V02G07	Battle Run	9.4	0.25	08/19/2009 09:25		0.68	556		0.286	5	
V02G07	Battle Run	9.4	0.25	09/02/2009 09:30		0.81	516		0.202	5	
V02G07	Battle Run Median	9.4	0.25			0.68	516		0.202	5	
300697	Big Swale	11.6	0.20	06/23/2009 10:15		1.12	362		0.137	11	
300697	Big Swale	11.6	0.20	09/01/2009 10:00		0.87	400		0.114	6	
V01S20	Cottonwood Ditch	11.3	4.10	06/22/2009 11:00		0.60	400		0.212	14	
V01S20	Cottonwood Ditch	11.3	4.10	07/13/2009 10:45		0.99	678		1.399	5	
V01S20	Cottonwood Ditch	11.3	4.10	08/03/2009 10:30		1.55	910		1.570	5	
V01S20	Cottonwood Ditch	11.3	4.10	08/17/2009 10:40		3.29	906		2.960	11	
V01S20	Cottonwood Ditch	11.3	4.10	08/31/2009 10:20		3.52	938		2.650	5	
V01S20	Cottonwood Ditch	11.3	4.10	09/02/2009 10:26							
V01S20	Cottonwood Ditch Median	11.3	4.10			1.55	906		1.570	5	
V01S08	Cottonwood Ditch	19.3	0.68	02/10/2009 09:10	840	1.30	392		0.217	164	24
V01S08	Cottonwood Ditch	19.3	0.68	03/11/2009 09:05	987	1.26	422		0.237	133	30
V01S08	Cottonwood Ditch	19.3	0.68	04/08/2009 09:05	1570	0.68	456		0.080	15	10
V01S08	Cottonwood Ditch	19.3	0.68	05/06/2009 09:15	2370	0.87	548		0.129	72	11
V01S08	Cottonwood Ditch	19.3	0.68	05/21/2009 08:20	3370	1.34	590		0.140	129	19
V01S08	Cottonwood Ditch	19.3	0.68	06/08/2009 08:27	2950	1.12	644		0.123	96	10
V01S08	Cottonwood Ditch	19.3	0.68	06/22/2009 10:35	3050	0.97	612		0.145	48	10
V01S08	Cottonwood Ditch	19.3	0.68	06/30/2009 11:30							
V01S08	Cottonwood Ditch	19.3	0.68	06/30/2009 12:18							
V01S08	Cottonwood Ditch	19.3	0.68	07/13/2009 10:15	7690	0.76	674		0.348	98	13
V01S08	Cottonwood Ditch	19.3	0.68	07/29/2009 09:10	9440	0.87	736		0.620	72	12
V01S08	Cottonwood Ditch	19.3	0.68	08/03/2009 10:05	11200	1.33	720		0.533	108	18
V01S08	Cottonwood Ditch	19.3	0.68	08/17/2009 10:20	15600	1.11	860		0.418	35	10
V01S08	Cottonwood Ditch	19.3	0.68	08/31/2009 10:00	12700	0.91	728		0.300	58	10
V01S08	Cottonwood Ditch	19.3	0.68	09/22/2009 08:50	17800	1.53	870		0.458	9	10
V01S08	Cottonwood Ditch Median	19.30	0.68		9440	1.11	720		0.348	72	10
300689	Dunlap Creek	8.9	0.10	06/22/2009 09:50		0.86	646		0.051	34	
300689	Dunlap Creek	8.9	0.10	07/13/2009 09:30		0.57	474		0.038	17	
300689	Dunlap Creek	8.9	0.10	08/03/2009 09:20		0.79	452		0.076	67	
300689	Dunlap Creek	8.9	0.10	08/17/2009 09:40		0.77	654		0.063	57	
300689	Dunlap Creek	8.9	0.10	08/31/2009 09:20		0.94	622		0.061	45	
300689	Dunlap Creek Median	8.90	0.10			0.79	622		0.061	45	
300701	Elliot Run	2.5	1.25	06/24/2009 09:05		1.73	402		0.064	5	
300701	Elliot Run	2.5	1.25	07/15/2009 09:15		1.83	474		0.078	5	
300701	Elliot Run	2.5	1.25	08/05/2009 09:50		1.95	402		0.029	5	
300701	Elliot Run	2.5	1.25	08/19/2009 09:15		3.32	1170		0.240	5	
300701	Elliot Run	2.5	1.25	09/02/2009 09:30		1.37	514		0.024	5	
300701	Elliot Run Median	2.5	1.25			1.83	474		0.064	5	
300700	Fulton Creek	12.5	16.30	06/24/2009 09:25		1.02	410		0.091	43	
300700	Fulton Creek	12.5	16.30	07/15/2009 09:30		0.46	400		0.077	40	
300700	Fulton Creek	12.5	16.30	08/05/2009 10:10		0.68	348		0.144	33	
300700	Fulton Creek	12.5	16.30	08/19/2009 09:35		1.19	380		0.245	59	
300700	Fulton Creek	12.5	16.30	09/02/2009 09:55		0.89	418		0.085	58	
300700	Fulton Creek Median	12.5	16.30			0.89	400		0.091	43	
V02S07	Fulton Creek	24.9	10.35	06/24/2009 09:15		0.89	454		0.088	9	
V02S07	Fulton Creek	24.9	10.35	07/15/2009 09:20		0.30	580		0.097	7	
V02S07	Fulton Creek	24.9	10.35	08/05/2009 10:00		0.55	466		0.102	7	
V02S07	Fulton Creek	24.9	10.35	08/19/2009 09:25		0.52	536		0.126	5	
V02S07	Fulton Creek	24.9	10.35	09/02/2009 09:40		0.69	448		0.087	5	
V02S07	Fulton Creek	24.9	10.35	09/02/2009 10:40							
V02S07	Fulton Creek Median	24.9	10.35			0.55	466		0.097	7	
V02S06	Richwood WWTP	25.2	9.50	06/24/2009 09:40		11.10	818		0.933	18	
V02S06	Richwood WWTP	25.2	9.50	07/15/2009 09:45	16300	0.95	834		1.880	5	23
V02S06	Richwood WWTP	25.2	9.50	08/05/2009 10:20	20800	0.87	820		2.520	5	25
V02S06	Richwood WWTP	25.2	9.50	08/19/2009 10:00	20200	0.94	846		2.150	5	25
V02S06	Richwood WWTP	25.2	9.50	09/02/2009 10:10	12900	1.72	754		0.271	5	17
V02S06	Fulton Creek Median	25.2	9.50		18250	0.95	820		1.880	5	24
V02S05	Fulton Creek	29	8.70	06/24/2009 09:55	3300	1.54	448		0.189	5	10
V02S05	Fulton Creek	29	8.70	07/15/2009 09:50	10500	0.68	652		0.746	5	10
V02S05	Fulton Creek	29	8.70	08/05/2009 10:35	13500	2.29	614		0.844	5	10
V02S05	Fulton Creek	29	8.70	08/19/2009 10:15	14500	0.89	754		1.190	5	10
V02S05	Fulton Creek	29	8.70	09/02/2009 10:25	8450	0.87	570		0.331	5	10
V02S05	Fulton Creek Median	29	8.70		10500	0.89	614		0.746	5	10
V02S04	Fulton Creek	40	6.44	06/24/2009 08:50		0.92			0.147		
V02S04	Fulton Creek	40	6.44	07/15/2009 09:00		0.55	650		0.438	19	
V02S04	Fulton Creek	40	6.44	08/05/2009 09:35		0.42	606		0.564	9	
V02S04	Fulton Creek	40	6.44	08/19/2009 09:00		0.77	688		0.581	18	
V02S04	Fulton Creek	40	6.44	09/02/2009 09:20		0.71	536		0.318	6	
V02S04	Fulton Creek Median	40	6.44			0.71	628		0.438	14	
V02S02	Fulton Creek	46.4	1.20	06/24/2009 08:46		0.79	412		0.198	5	
V02S02	Fulton Creek	46.4	1.20	07/15/2009 08:46		0.50	580		0.254	7	
V02S02	Fulton Creek	46.4	1.20	08/05/2009 09:25		0.52	516		0.343	9	

Station	River or Stream	DA	RM	Date/Time	Strontium	TKN	TDS	phosphorous, dis	total Phosphoru	TSS	Zinc
V02S02	Fulton Creek	46.4	1.20	08/19/2009 08:45		0.83	570		0.351	14	
V02S02	Fulton Creek	46.4	1.20	09/02/2009 09:05		0.70	468		0.244	5	
V02S02	<i>Fulton Creek Median</i>	46.4	1.20			0.70	516		0.254	7	
V06P08	Fulton Creek	46.9	0.22	02/10/2009 12:45	771	1.60	226		0.240	32	10
V06P08	Fulton Creek	46.9	0.22	03/11/2009 12:35	2470	0.93	372		0.222	10	10
V06P08	Fulton Creek	46.9	0.22	04/08/2009 12:35	2720	0.59	394		0.073	5	10
V06P08	Fulton Creek	46.9	0.22	05/21/2009 11:58	7540	0.23	494		0.026	5	10
V06P08	Fulton Creek	46.9	0.22	05/27/2009 10:05	6100	0.62	528		0.071	5	10
V06P08	Fulton Creek	46.9	0.22	06/08/2009 12:06	7080	0.53	512		0.097	17	10
V06P08	Fulton Creek	46.9	0.22	06/24/2009 08:25	3600	0.97	452		0.200	5	10
V06P08	Fulton Creek	46.9	0.22	07/15/2009 08:30	8410	0.55	544		0.192	5	10
V06P08	Fulton Creek	46.9	0.22	07/30/2009 10:30	7530	0.55	478		0.193	8	10
V06P08	Fulton Creek	46.9	0.22	08/05/2009 09:15	10300	1.95	506		0.197	6	10
V06P08	Fulton Creek	46.9	0.22	08/19/2009 08:30	12300	0.79	642		0.322	8	10
V06P08	Fulton Creek	46.9	0.22	09/02/2009 08:50	8580	0.77	498		0.229	5	10
V06P08	Fulton Creek	46.9	0.22	09/02/2009 12:15							
V06P08	Fulton Creek	46.9	0.22	09/22/2009 12:15	10500	0.50	540		0.236	5	10
V06P08	<i>Fulton Creek Median</i>	46.9	0.22		7975	0.59	509		0.195	5	10
300698	Goose Creek		0.30	06/25/2009 09:55	219	0.60	544		0.396	5	29
300698	Goose Creek		0.30	07/16/2009 10:00	175	0.67	558		0.465	5	100
300698	Goose Creek		0.30	08/06/2009 10:00	138	0.47	540		0.473	6	205
300698	Goose Creek		0.30	08/20/2009 09:50	224	1.93	328		0.298	5	1140
300698	Goose Creek		0.30	09/03/2009 09:45	248	0.20	538		0.289	7	308
V02P11	Honey Creek	7.3	0.10	06/25/2009 08:45		0.65	472		0.119	8	
V02P11	Honey Creek	7.3	0.10	07/16/2009 08:50		0.90	578		0.126	19	
V02P11	Honey Creek	7.3	0.10	08/06/2009 08:55		0.37	538		0.111	5	
V02P11	Honey Creek	7.3	0.10	08/20/2009 08:35		4.71	348		0.332	52	
V02P11	Honey Creek	7.3	0.10	09/03/2009 08:35		0.47	604		0.118	5	
V02P11	<i>Honey Creek Median</i>	7.3	0.10			0.65	538		0.119	8	
V02G05	Kebler Run	14.3	0.87	02/10/2009 12:30	560	1.24	320		0.190	42	12
V02G05	Kebler Run	14.3	0.87	03/11/2009 12:25	1480	0.58	400		0.032	5	10
V02G05	Kebler Run	14.3	0.87	04/08/2009 12:25	1640	0.27	430		0.083	5	10
V02G05	Kebler Run	14.3	0.87	05/21/2009 11:46	2350	0.26	458		0.048	5	10
V02G05	Kebler Run	14.3	0.87	06/08/2009 11:51	3090	0.41	482		0.012	5	10
V02G05	Kebler Run	14.3	0.87	06/24/2009 10:05	1970	0.31	452		0.020	5	10
V02G05	Kebler Run	14.3	0.87	07/15/2009 10:20	3490	0.28	430		0.017	5	10
V02G05	Kebler Run	14.3	0.87	07/30/2009 10:15	3300	0.54	498		0.076	5	10
V02G05	Kebler Run	14.3	0.87	08/05/2009 10:15	3700	0.23	472		0.029	5	10
V02G05	Kebler Run	14.3	0.87	08/19/2009 10:05	4830	0.46	514		0.045	11	10
V02G05	Kebler Run	14.3	0.87	09/02/2009 10:10	2640	0.33	454		0.017	5	10
V02G05	Kebler Run	14.3	0.87	09/02/2009 14:15							
V02G05	Kebler Run	14.3	0.87	09/22/2009 12:05	4110	0.30	524		0.030	5	10
V02G05	<i>Kebler Run Median</i>	14.3	0.87		3300	0.31	472		0.029	5	10
V02G02	Little Scioto River	12.8	25.59	06/25/2009 08:40		1.64	400		0.055	27	
V02G02	Little Scioto River	12.8	25.59	07/16/2009 08:45		1.04	418		0.121	5	
V02G02	Little Scioto River	12.8	25.59	08/06/2009 08:50		0.50	442		0.073	5	
V02G02	Little Scioto River	12.8	25.59	08/20/2009 08:40		0.69	564		0.114	11	
V02G02	Little Scioto River	12.8	25.59	09/03/2009 08:25		0.40	424		0.030	5	
V02G02	<i>Little Scioto River Median</i>	12.8	25.59			0.69	424		0.073	5	
V02G01	Little Scioto River	33	19.70	06/25/2009 08:55	1160	0.51	366		0.052	18	10
V02G01	Little Scioto River	33	19.70	07/16/2009 09:00	1770	0.84	448		0.069	8	10
V02G01	Little Scioto River	33	19.70	08/06/2009 09:00	1400	0.45	308		0.065	7	10
V02G01	Little Scioto River	33	19.70	08/20/2009 08:50	1250	0.77	284		0.067	15	10
V02G01	Little Scioto River	33	19.70	09/03/2009 08:40	1190	0.80	366		0.076	8	10
V02G01	<i>Little Scioto River Median</i>	33	19.70		1250	0.77	366		0.067	8	10
V02S01	Little Scioto River	47	11.10	02/10/2009 11:05	401	0.98	296		0.123	60	13
V02S01	Little Scioto River	47	11.10	03/11/2009 10:35	345	0.86	324		0.202	124	39
V02S01	Little Scioto River	47	11.10	04/08/2009 10:50	1170	0.40	396		0.039	5	10
V02S01	Little Scioto River	47	11.10	05/21/2009 10:35	1280	0.29	376		0.020	37	10
V02S01	Little Scioto River	47	11.10	05/27/2009 08:30	1560	0.67	400		0.039	36	10
V02S01	Little Scioto River	47	11.10	06/08/2009 10:29	952	1.09	376		0.051	44	35
V02S01	Little Scioto River	47	11.10	06/25/2009 09:25	1130	0.57	366		0.052	35	10
V02S01	Little Scioto River	47	11.10	07/16/2009 09:35	1880	0.58	392		0.049	23	10
V02S01	Little Scioto River	47	11.10	07/30/2009 08:30	2000	0.54	452		0.048	21	10
V02S01	Little Scioto River	47	11.10	08/06/2009 09:35	3610	0.44	332		0.066	22	10
V02S01	Little Scioto River	47	11.10	08/20/2009 09:25	3080	0.65	324		0.165	55	17
V02S01	Little Scioto River	47	11.10	09/02/2009 16:50							
V02S01	Little Scioto River	47	11.10	09/03/2009 09:15	1420	0.72	348		0.076	35	10
V02S01	Little Scioto River	47	11.10	09/22/2009 10:35	3520	1.33	460		0.191	9	10
V02S01	<i>Little Scioto River Median</i>	47	11.10		1720	0.62	376		0.052	35	10
V02S13	Little Scioto River	73	9.24	06/25/2009 10:10		0.55	392		0.068	34	
V02S13	Little Scioto River	73	9.24	07/16/2009 10:10		0.46	494		0.042	8	
V02S13	Little Scioto River	73	9.24	08/06/2009 10:20		0.43	406		0.058	12	
V02S13	Little Scioto River	73	9.24	08/20/2009 09:50		0.49	488		0.066	12	
V02S13	Little Scioto River	73	9.24	09/03/2009 09:55		0.58	474		0.064	16	
V02S13	<i>Little Scioto River Median</i>	73	9.24			0.49	474		0.064	12	
300624	Little Scioto River	86	6.50	06/25/2009 09:46	1090	0.57	386		0.090	42	10

Station	River or Stream	DA	RM	Date/Time	Strontium	TKN	TDS	phosphorous, dis	total Phosphoru	TSS	Zinc
300624	Little Scioto River	86	6.50	07/16/2009 09:35	2000	0.79	562		0.271	20	10
300624	Little Scioto River	86	6.50	08/06/2009 09:45		1.34	498		0.243	27	10
300624	Little Scioto River	86	6.50	08/20/2009 09:25	935	1.14	186		0.338	44	45
300624	Little Scioto River	86	6.50	09/03/2009 09:20	1340	1.22	436		0.124	39	10
300624	Little Scioto River Median	86	6.50		1340	1.14	436		0.243	39	10
V02S11	Marion WWTP	86	6.39	06/25/2009 09:20	3170	1.84	696		1.339	5	48
V02S11	Marion WWTP	86	6.39	07/16/2009 09:20	3610	2.92	744		1.826	5	33
V02S11	Marion WWTP	86	6.39	08/06/2009 09:25	3070	1.54	700		1.908	5	34
V02S11	Marion WWTP	86	6.39	08/20/2009 09:10	2090	3.52	416		1.876	8	22
V02S11	Marion WWTP	86	6.39	09/03/2009 09:10	3400	1.79	710		2.326	5	27
V02S11	Marion WWTP Median	86	6.39		3170	1.84	700		1.870	5	33
V02P10	Little Scioto River	86	5.74	06/25/2009 09:10	1810	0.92	494		0.504	79	29
V02P10	Little Scioto River	86	5.74	07/16/2009 09:10	3050	1.71	668		1.510	50	26
V02P10	Little Scioto River	86	5.74	08/06/2009 09:15	2890	1.53	662		1.610	48	31
V02P10	Little Scioto River	86	5.74	08/20/2009 09:00	2630	4.80	490		2.750	16	32
V02P10	Little Scioto River	86	5.74	09/03/2009 09:00	2630	1.36	606		0.988	36	23
V02P10	Little Scioto River Median	86	5.74		2630	1.53	606		1.510	48	29
V02P07	Little Scioto River	113	0.39	02/10/2009 11:35	573	1.29	330		0.224	36	13
V02P07	Little Scioto River	113	0.39	03/11/2009 11:25	598	1.06	368		0.453	69	24
V02P07	Little Scioto River	113	0.39	04/08/2009 11:35	1540	0.77	492		1.408	9	12
V02P07	Little Scioto River	113	0.39	05/21/2009 10:00	2700	0.75	574		0.526	67	25
V02P07	Little Scioto River	113	0.39	05/27/2009 09:15	2910	0.88	520		0.690	58	22
V02P07	Little Scioto River	113	0.39	06/08/2009 11:05	2010	0.89	468		0.527	57	18
V02P07	Little Scioto River	113	0.39	06/24/2009 09:00	2200	0.94	508		0.507	46	10
V02P07	Little Scioto River	113	0.39	07/16/2009 08:30	3810	1.27	608		1.520	12	14
V02P07	Little Scioto River	113	0.39	07/30/2009 09:25	3780	1.10	592		1.220	26	15
V02P07	Little Scioto River	113	0.39	08/06/2009 08:35	3820	1.02	578		1.370	14	11
V02P07	Little Scioto River	113	0.39	08/20/2009 08:15	1440	1.24	234		0.528	156	66
V02P07	Little Scioto River	113	0.39	09/02/2009 16:20							
V02P07	Little Scioto River	113	0.39	09/03/2009 08:15	3110	0.92	536		1.050	19	10
V02P07	Little Scioto River	113	0.39	09/22/2009 11:10	3930	1.16	612		0.821	6	14
V02P07	Little Scioto River Median	113	0.39		3010	0.98	555		0.756	36	15
300690	McCoy Run	8	0.55	06/22/2009 11:25		0.24	348		0.025	5	
300690	McCoy Run	8	0.55	07/13/2009 11:10		0.91	360		0.078	6	
300690	McCoy Run	8	0.55	08/03/2009 10:50		0.75	344		0.076	5	
300690	McCoy Run	8	0.55	08/17/2009 11:10		1.78	420		0.152	26	
300690	McCoy Run	8	0.55	08/31/2009 10:45		0.62	386		0.022	8	
300690	McCoy Run	8	0.55	09/02/2009 13:23							
300690	McCoy Run Median	8	0.55			0.75	360		0.076	6	
V01K05	McDonald Creek	2.6	9.17	06/23/2009 09:00		0.64	424		0.066	5	
V01K05	McDonald Creek	2.6	9.17	07/14/2009 08:15		1.07	518		0.238	58	
V01K05	McDonald Creek	2.6	9.17	08/04/2009 08:55		1.41	670		0.502	5	
V01K05	McDonald Creek	2.6	9.17	08/18/2009 08:25		2.04	624		1.440	66	
V01K05	McDonald Creek	2.6	9.17	09/01/2009 08:20		0.98	338		0.198	5	
V01K05	McDonald Creek Median	2.6	9.17			1.07	518		0.238	5	
V01W34	McDonald Creek	6.3	6.82	06/23/2009 09:05		0.85	460		0.093	5	
V01W34	McDonald Creek	6.3	6.82	07/14/2009 08:30		1.03	468		0.017	5	
V01W34	McDonald Creek	6.3	6.82	08/04/2009 09:05		1.37	416		0.093	5	
V01W34	McDonald Creek	6.3	6.82	08/18/2009 08:35		0.92	528		0.045	5	
V01W34	McDonald Creek	6.3	6.82	09/01/2009 08:30		1.24	358		0.168	5	
V01W34	McDonald Creek	6.3	6.82	09/02/2009 15:37							
V01W34	McDonald Creek	6.3	6.82	09/02/2009 15:48							
V01W34	McDonald Creek Median	6.3	6.82			1.03	460		0.093	5	
203089	McDonald Creek	12.3	2.70	06/23/2009 10:00	2490	0.92	484		0.085	5	10
203089	McDonald Creek	12.3	2.70	07/14/2009 09:30	5620	0.71	588		0.078	5	10
203089	McDonald Creek	12.3	2.70	08/04/2009 10:05	4090	1.16	354		0.112	5	10
203089	McDonald Creek	12.3	2.70	08/18/2009 09:40	4160	1.14	414		0.152	5	10
203089	McDonald Creek	12.3	2.70	09/01/2009 09:30	1910	1.27	310		0.264	5	10
203089	McDonald Creek	12.3	2.70	09/01/2009 16:35							
203089	McDonald Creek Median	12.3	2.70			1.14	414		0.112	5	
V02S14	N. Rock Swale Ditch	7.3	2.55	06/25/2009 10:15	1790	0.77	480		0.213	5	10
V02S14	N. Rock Swale Ditch	7.3	2.55	07/16/2009 10:15	5900	1.50	862		0.758	28	13
V02S14	N. Rock Swale Ditch	7.3	2.55	08/06/2009 10:30	6410	0.79	854		0.678	13	10
V02S14	N. Rock Swale Ditch	7.3	2.55	08/20/2009 10:00	1620	0.58	286		0.432	8	10
V02S14	N. Rock Swale Ditch	7.3	2.55	09/03/2009 10:00	763	0.76	310		0.184	219	38
V02S14	N. Rock Swale Ditch Median	7.3	2.55		1790	0.77	480		0.432	13	10
V02W15	N. Rock Swale Ditch	10	0.55	06/25/2009 09:50	3110	0.71	568		0.223	5	10
V02W15	N. Rock Swale Ditch	10	0.55	07/16/2009 09:55	4900	1.65	808		0.917	14	10
V02W15	N. Rock Swale Ditch	10	0.55	08/06/2009 10:00	3580	1.24	670		0.755	10	10
V02W15	N. Rock Swale Ditch	10	0.55	08/20/2009 09:40	3410	0.81	542		0.373	12	13
V02W15	N. Rock Swale Ditch	10	0.55	09/03/2009 09:40	4590	1.45	778		0.496	5	11
V02W15	N. Rock Swale Ditch Median	10	0.55		3580	1.24	670		0.496	10	10
V02G06	Ottawa Creek	8	0.08	06/24/2009 09:50		0.45	460		0.056	5	
V02G06	Ottawa Creek	8	0.08	07/15/2009 10:05		0.35	534		0.057	5	
V02G06	Ottawa Creek	8	0.08	08/05/2009 10:30		0.35	552		0.099	5	
V02G06	Ottawa Creek	8	0.08	08/19/2009 09:55		0.49	552		0.108	5	
V02G06	Ottawa Creek	8	0.08	09/02/2009 09:55		0.45	536		0.039	5	

Station	River or Stream	DA	RM	Date/Time	Strontium	TKN	TDS	phosphorous, dis	total Phosphoru	TSS	Zinc
V02G06	Ottawa Creek Median	8	0.08			0.45	536		0.057	5	
V01W28	Panther Creek	7.1	8.91	06/22/2009 10:00		0.70	400		0.052	9	
V01W28	Panther Creek	7.1	8.91	07/13/2009 09:45		0.63	452		0.196	5	
V01W28	Panther Creek	7.1	8.91	08/03/2009 09:50		0.73	374		0.072	5	
V01W28	Panther Creek	7.1	8.91	08/17/2009 09:50		0.86	426		0.066	5	
V01W28	Panther Creek	7.1	8.91	08/31/2009 12:45		0.44	408		0.050	5	
V01W28	Panther Creek Median	7.1	8.91			0.70	408		0.066	5	
300704	Panther Creek	11	7.80	06/22/2009 09:50		0.64	422		0.078	10	
300704	Panther Creek	11	7.80	07/13/2009 09:35		0.72	478		0.287	22	
300704	Panther Creek	11	7.80	08/03/2009 09:35		0.57	432		0.121	14	
300704	Panther Creek	11	7.80	08/17/2009 09:35		0.84	442		0.168	12	
300704	Panther Creek	11	7.80	08/31/2009 12:55		0.63	446		0.104	9	
300704	Panther Creek Median	11	7.80			0.64	442		0.121	12	
V01W30	Panther Creek	22.3	1.80	06/22/2009 08:50	1640	1.32	394		0.097	20	10
V01W30	Panther Creek	22.3	1.80	07/13/2009 08:40	4330	0.54	454		0.073	7	10
V01W30	Panther Creek	22.3	1.80	08/03/2009 08:40	8620	1.58	778		0.268	19	10
V01W30	Panther Creek	22.3	1.80	08/17/2009 08:40	6360	1.23	774		0.159	25	10
V01W30	Panther Creek	22.3	1.80	08/31/2009 10:20	3860	0.85	436		0.190	9	10
V01W30	Panther Creek Median	22.3	1.80		4330	1.23	454		0.159	19	10
300699	Patton Run	14.4	2.25	06/24/2009 09:15		0.57			0.075		
300699	Patton Run	14.4	2.25	07/15/2009 09:20		0.52	480		0.103	19	
300699	Patton Run	14.4	2.25	08/05/2009 09:30		0.25	480		0.082	9	
300699	Patton Run	14.4	2.25	08/19/2009 09:10		0.39	528		0.076	13	
300699	Patton Run	14.4	2.25	09/02/2009 09:15		0.49	484		0.049	5	
300699	Patton Run Median	14.4	2.25			0.49	482		0.076	11	
V02G03	Rock Fork	7.6	8.13	06/25/2009 09:10		0.59	366		0.024	5	
V02G03	Rock Fork	7.6	8.13	07/16/2009 09:20		0.95	394		0.020	6	
V02G03	Rock Fork	7.6	8.13	08/06/2009 09:15		0.89	420		0.010	9	
V02G03	Rock Fork	7.6	8.13	08/20/2009 09:05		0.96	402		0.206	12	
V02G03	Rock Fork	7.6	8.13	09/03/2009 08:55		0.43	498		0.010	17	
V02G03	Rock Fork Median	7.6	8.13			0.89	402		0.020	9	
V02P09	Rock Fork	23.1	1.10	02/10/2009 11:15	267	0.98	302		0.184	134	24
V02P09	Rock Fork	23.1	1.10	03/11/2009 10:45	380	0.84	378		0.124	31	18
V02P09	Rock Fork	23.1	1.10	04/08/2009 10:55	655	0.32	434		0.042	5	10
V02P09	Rock Fork	23.1	1.10	05/21/2009 10:46	901	0.33	520		0.030	11	10
V02P09	Rock Fork	23.1	1.10	05/27/2009 08:45	955	0.65	446		0.060	17	10
V02P09	Rock Fork	23.1	1.10	06/08/2009 10:37	520	0.80	370		0.073	37	10
V02P09	Rock Fork	23.1	1.10	06/25/2009 09:35	837	0.44	422		0.069	29	10
V02P09	Rock Fork	23.1	1.10	07/16/2009 09:45	1340	0.64	574		0.023	5	10
V02P09	Rock Fork	23.1	1.10	07/30/2009 08:45	1140	0.64	534		0.068	6	10
V02P09	Rock Fork	23.1	1.10	08/06/2009 09:45	1490	0.36	560		0.037	5	10
V02P09	Rock Fork	23.1	1.10	08/20/2009 09:40	1310	0.45	500		0.064	15	10
V02P09	Rock Fork	23.1	1.10	09/03/2009 09:35	980	0.31	596		0.031	6	10
V02P09	Rock Fork	23.1	1.10	09/22/2009 10:45	1570	0.35	632		0.029	5	10
V02P09	Rock Fork Median	23.1	1.10		1060	0.45	527		0.049	9	10
300693	Rush Creek	11.8	39.45	06/23/2009 08:45	2560	0.75	488		0.047	18	10
300693	Rush Creek	11.8	39.45	07/14/2009 08:30	2810	0.64	460		0.026	7	10
300693	Rush Creek	11.8	39.45	08/04/2009 08:35	3270		458			5	10
300693	Rush Creek	11.8	39.45	08/18/2009 08:20	2960	0.37	504		0.025	5	10
300693	Rush Creek	11.8	39.45	09/01/2009 08:25	3070	0.60	454		0.022	5	10
300693	Rush Creek Median	11.8	39.45		2960	0.62	460		0.026	5	10
300694	Rush Creek	14.8	36.15	06/23/2009 09:10	4040	1.21	554		0.070	39	10
300694	Rush Creek	14.8	36.15	07/14/2009 08:45	4770	0.46	576		0.057	16	10
300694	Rush Creek	14.8	36.15	08/04/2009 08:50	7070	0.44	566		0.134	12	10
300694	Rush Creek	14.8	36.15	08/18/2009 08:35	9240	0.34	656		0.121	23	10
300694	Rush Creek	14.8	36.15	09/01/2009 08:50	5520	0.50	584		0.166	20	10
300694	Rush Creek Median	14.8	36.15		5520	0.46	576		0.121	20	10
300695	Rush Creek	25.7	26.26	06/23/2009 09:30	2400	0.62	456		0.039	19	10
300695	Rush Creek	25.7	26.26	07/14/2009 09:15	3970	0.55	518		0.023	6	10
300695	Rush Creek	25.7	26.26	08/04/2009 09:15	3700	0.53	410		0.030	12	10
300695	Rush Creek	25.7	26.26	08/18/2009 09:00	3880	0.60	466		0.040	7	10
300695	Rush Creek	25.7	26.26	09/01/2009 09:15	3320	0.61	404		0.032	6	10
300695	Rush Creek Median	25.7	26.26		3700	0.60	456		0.032	7	10
300696	Rush Creek	50	14.50	06/23/2009 09:55	1880	0.88	426		0.081	31	10
300696	Rush Creek	50	14.50	07/14/2009 09:40	3990	0.58	478		0.037	20	10
300696	Rush Creek	50	14.50	08/04/2009 09:40	3590	0.50	406		0.099	39	10
300696	Rush Creek	50	14.50	08/18/2009 09:25	3900	0.58	460		0.048	13	10
300696	Rush Creek	50	14.50	09/01/2009 09:40	1030	1.07	242		0.223	11	10
300696	Rush Creek Median	50	14.50		3590	0.58	426		0.081	20	10
V01S01	Rush Creek	77	5.39	03/11/2009 11:45	1570	0.78	356		0.095	29	10
V01S01	Rush Creek	77	5.39	04/08/2009 11:50	1790	0.67	392		0.060	11	10
V01S01	Rush Creek	77	5.39	05/07/2009 09:25	2080	0.62	390		0.077	32	10
V01S01	Rush Creek	77	5.39	05/21/2009 09:45	3040	0.30	456		0.030	26	10
V01S01	Rush Creek	77	5.39	06/08/2009 09:52	3610	0.76	454		0.062	34	10
V01S01	Rush Creek	77	5.39	06/23/2009 10:40	1810	1.15	388		0.121	49	10
V01S01	Rush Creek	77	5.39	06/30/2009 16:38	3640	0.44	472		0.071	16	10
V01S01	Rush Creek	77	5.39	06/30/2009 17:00							

Station	River or Stream	DA	RM	Date/Time	Strontium	TKN	TDS	phosphorous, dis	total Phosphoru	TSS	Zinc
V01S01	Rush Creek	77	5.39	06/30/2009 17:29							
V01S01	Rush Creek	77	5.39	07/14/2009 10:20	5900	0.53	486		0.058	9	10
V01S01	Rush Creek	77	5.39	07/29/2009 11:10	4950	0.38	446		0.084	21	10
V01S01	Rush Creek	77	5.39	08/04/2009 10:20	4510	0.57	404		0.121	70	10
V01S01	Rush Creek	77	5.39	08/18/2009 10:20	8690	0.37	494		0.058	29	10
V01S01	Rush Creek	77	5.39	09/01/2009 10:25	1610	0.87	260		0.163	35	10
V01S01	Rush Creek	77	5.39	09/22/2009 11:30	6760	0.49	408		0.082	5	10
V01S01	Rush Creek Median	77	5.39		3640	0.53	446		0.077	29	10
V01K04	Rush Creek	105	0.55	06/23/2009 11:00	1850	2.09	394		0.128	73	10
V01K04	Rush Creek	105	0.55	07/14/2009 10:40	6190	0.56	508		0.104	8	10
V01K04	Rush Creek	105	0.55	08/04/2009 10:40	8030	0.53	432		0.129	18	10
V01K04	Rush Creek	105	0.55	08/18/2009 10:35	13500	0.57	466		0.156	35	10
V01K04	Rush Creek	105	0.55	09/01/2009 10:45	1560	0.90	256		0.163	41	10
V01K04	Rush Creek Median	105	0.55		6190	0.57	432		0.129	35	10
V01W18	Scioto River	18.3	234.39	02/10/2009 08:35	258	1.15	282		0.196	87	18
V01W18	Scioto River	18.3	234.39	03/11/2009 08:45	454	0.98	324		0.110	21	14
V01W18	Scioto River	18.3	234.39	04/08/2009 08:30	525	0.35	320		0.054	8	14
V01W18	Scioto River	18.3	234.39	05/21/2009 08:00	1000	0.27	434		0.010	7	10
V01W18	Scioto River	18.3	234.39	06/08/2009 08:00	1090	0.42	420		0.010	8	10
V01W18	Scioto River	18.3	234.39	06/22/2009 09:00	1020	0.55	426		0.021	10	10
V01W18	Scioto River	18.3	234.39	06/30/2009 10:35							
V01W18	Scioto River	18.3	234.39	06/30/2009 10:54							
V01W18	Scioto River	18.3	234.39	07/13/2009 08:40	1430	0.35	516		0.363	5	10
V01W18	Scioto River	18.3	234.39	07/29/2009 08:40	1560	0.28	554		0.026	5	10
V01W18	Scioto River	18.3	234.39	08/03/2009 08:35	1440	0.24	666		0.010	5	10
V01W18	Scioto River	18.3	234.39	08/17/2009 08:40	1390	0.41	636		0.010	5	10
V01W18	Scioto River	18.3	234.39	08/31/2009 08:40	1290	0.34	634		0.010	5	10
V01W18	Scioto River	18.3	234.39	09/22/2009 08:25	1190	0.33	578		0.010	5	10
V01W18	Scioto River Median	18.3	234.39		1290	0.34	554		0.010	5	10
V01W19	Scioto River	28	231.86	06/22/2009 08:40	1450	0.57	508		0.029	7	10
V01W19	Scioto River	28	231.86	07/13/2009 08:30	2010	0.65	598		0.019	5	10
V01W19	Scioto River	28	231.86	08/03/2009 08:25	2080	0.28	684		0.018	5	10
V01W19	Scioto River	28	231.86	08/17/2009 08:25	2000	0.41	676		0.030	6	10
V01W19	Scioto River	28	231.86	08/31/2009 08:30	1980	0.23	620		0.010	5	10
V01W19	Scioto River Median	28	231.86		2000	0.41	620		0.019	5	10
201834	Scioto River	49	226.30	06/22/2009 09:40	2540	1.02	556		0.061	58	10
201834	Scioto River	49	226.30	07/13/2009 09:20	3400	0.88	640		0.074	46	10
201834	Scioto River	49	226.30	08/03/2009 09:10	3270	0.60	680		0.039	34	10
201834	Scioto River	49	226.30	08/17/2009 09:30	3630	0.66	684		0.045	51	10
201834	Scioto River	49	226.30	08/31/2009 09:15	3590	0.62	626		0.016	11	10
201834	Scioto River Median	49	226.30		3400	0.66	640		0.045	46	10
V01P06	Scioto River	62	224.20	06/22/2009 10:00	3140	0.73	672		0.065	89	12
V01P06	Scioto River	62	224.20	07/13/2009 09:40	3630	0.50	668		0.183	77	14
V01P06	Scioto River	62	224.20	08/03/2009 09:30	3590	0.53	650		0.060	70	12
V01P06	Scioto River	62	224.20	08/17/2009 09:50	3790	0.75	678		0.090	115	10
V01P06	Scioto River	62	224.20	08/31/2009 09:30	3480	0.70	638		0.045	28	10
V01P06	Scioto River Median	62	224.20		3590	0.70	668		0.065	77	12
V01W20	Scioto River	67	223.05	06/22/2009 10:15	3300	1.20	706		0.078	97	10
V01W20	Scioto River	67	223.05	07/13/2009 09:55	3830	0.56	686		0.448	93	17
V01W20	Scioto River	67	223.05	08/03/2009 09:50	3740	0.90	656		0.137	119	13
V01W20	Scioto River	67	223.05	08/17/2009 10:00	3990	0.60	686		0.068	94	10
V01W20	Scioto River	67	223.05	08/31/2009 09:40	3440	0.59	612		0.055	60	10
V01W20	Scioto River Median	67	223.05		3740	0.60	686		0.078	94	10
610770	Scioto River	117	216.67	06/22/2009 11:35	3340	0.97	656		0.076	64	10
610770	Scioto River	117	216.67	07/13/2009 11:20	6390	0.58	684		0.074	42	10
610770	Scioto River	117	216.67	08/03/2009 11:05	7630	0.63	628		0.257	64	10
610770	Scioto River	117	216.67	08/17/2009 11:20	10700	0.55	680		0.068	57	10
610770	Scioto River	117	216.67	08/31/2009 10:55	8810	0.46	626		0.037	29	10
610770	Scioto River Median	117	216.67		7630	0.58	656		0.074	57	10
V01S05	Scioto River	160	212.47	02/10/2009 09:35	870	1.21	354		0.238	145	19
V01S05	Scioto River	160	212.47	03/11/2009 09:35	1180	1.27	424		0.163	101	21
V01S05	Scioto River	160	212.47	04/08/2009 09:35	1590	0.76	460		0.027	23	10
V01S05	Scioto River	160	212.47	05/06/2009 09:55	2460	0.81	544		0.051	22	10
V01S05	Scioto River	160	212.47	05/21/2009 08:45	3530	0.55	560		0.048	42	10
V01S05	Scioto River	160	212.47	06/08/2009 08:56	3590	1.07	656		0.063	54	10
V01S05	Scioto River	160	212.47	06/22/2009 11:20	3250	1.15	582		0.078	38	10
V01S05	Scioto River	160	212.47	06/30/2009 13:43	4610	0.70	578		0.078	42	10
V01S05	Scioto River	160	212.47	06/30/2009 14:05							
V01S05	Scioto River	160	212.47	06/30/2009 14:37							
V01S05	Scioto River	160	212.47	07/13/2009 10:45	9050	0.81	632		0.095	30	12
V01S05	Scioto River	160	212.47	07/29/2009 09:45	8220	0.48	596		0.321	35	10
V01S05	Scioto River	160	212.47	08/03/2009 10:50	10600	0.51	612		0.078	33	10
V01S05	Scioto River	160	212.47	08/17/2009 10:55	12800	0.58	644		0.059	32	10
V01S05	Scioto River	160	212.47	08/31/2009 12:00	10100	0.39	578		0.026	19	10
V01S05	Scioto River	160	212.47	09/22/2009 09:20	10000	0.50	604		0.045	11	10
V01S05	Scioto River Median	160	212.47		8220	0.58	596		0.063	33	10
610760	Scioto River	170	210.07	06/22/2009 10:35	3090	0.91	572		0.086	16	10

Station	River or Stream	DA	RM	Date/Time	Strontium	TKN	TDS	phosphorous, dis	total Phosphoru	TSS	Zinc
610760	Scioto River	170	210.07	07/13/2009 10:15	8260	1.76	626		0.551	7	11
610760	Scioto River	170	210.07	08/03/2009 10:25	10600	0.64	608		0.595	11	10
610760	Scioto River	170	210.07	08/17/2009 10:25	10700	0.92	668		0.640	9	10
610760	Scioto River	170	210.07	08/31/2009 11:10	7160	0.48	512		0.358	11	10
610760	Scioto River Median	170	210.07		8260	0.91	608		0.551	11	10
V01W23	Scioto River	178	207.26	06/22/2009 09:20	3110	1.15	574		0.093	19	10
V01W23	Scioto River	178	207.26	07/13/2009 09:05	7450	0.84	616		0.457	5	10
V01W23	Scioto River	178	207.26	08/03/2009 09:15	9720	0.64	590		0.361	14	10
V01W23	Scioto River	178	207.26	08/17/2009 09:15	12300	0.84	632		0.465	20	10
V01W23	Scioto River	178	207.26	08/31/2009 11:00	6590	0.70	476		0.433	5	10
V01W23	Scioto River Median	178	207.26		7450	0.84	590		0.431	14	10
V01S11	Scioto River	223	203.36	06/22/2009 09:10	3030	1.68	540		0.133	26	10
V01S11	Scioto River	223	203.36	07/13/2009 08:35	7400	0.73	618		0.296	5	10
V01S11	Scioto River	223	203.36	08/03/2009 08:55	8130	0.75	514		0.313	11	10
V01S11	Scioto River	223	203.36	08/17/2009 08:55	11700	0.70	620		0.311	12	10
V01S11	Scioto River	223	203.36	08/31/2009 10:35	4650	0.48	398		0.333	9	10
V01S11	Scioto River Median	223	203.36		7400	0.73	540		0.311	11	10
V01S23	Scioto River	258	196.12	02/10/2009 10:25	903	1.19	342		0.221	58	10
V01S23	Scioto River	258	196.12	03/11/2009 10:15	1200	1.20	384		0.170	107	19
V01S23	Scioto River	258	196.12	04/08/2009 10:15	1450	0.80	414		0.102	33	11
V01S23	Scioto River	258	196.12	05/07/2009 09:00	2560	1.12	508		0.098	34	10
V01S23	Scioto River	258	196.12	05/21/2009 09:32	3220	0.48	530		0.086	44	10
V01S23	Scioto River	258	196.12	06/08/2009 09:39	3520	0.86	644		0.103	51	10
V01S23	Scioto River	258	196.12	06/23/2009 09:50	2910	1.05	534		0.115	26	10
V01S23	Scioto River	258	196.12	07/14/2009 09:20	6530	0.81	598		0.172	30	10
V01S23	Scioto River	258	196.12	07/29/2009 10:40	6320	0.63	526		0.255	39	11
V01S23	Scioto River	258	196.12	08/04/2009 09:55	7600	0.52	576		0.267	43	10
V01S23	Scioto River	258	196.12	08/18/2009 09:25	9970	0.61	596		0.244	38	10
V01S23	Scioto River	258	196.12	09/01/2009 09:20	5300	0.87	456		0.300	48	10
V01S23	Scioto River	258	196.12	09/02/2009 09:30							
V01S23	Scioto River	258	196.12	09/22/2009 10:05	7010	0.79	502		0.203	16	10
V01S23	Scioto River Median	258	196.12		5810	0.80	532		0.188	39	10
V01W24	Scioto River	262	192.21	06/23/2009 10:20	2800	1.16	534		0.120	46	10
V01W24	Scioto River	262	192.21	07/14/2009 09:45	7410	0.89	620		0.162	32	10
V01W24	Scioto River	262	192.21	08/04/2009 10:20	7910	0.70	554		0.264	72	10
V01W24	Scioto River	262	192.21	08/18/2009 09:50	7980	0.59	578		0.250	58	10
V01W24	Scioto River	262	192.21	09/01/2009 09:50	5300	0.92	476		0.282	57	11
V01W24	Scioto River Median	262	192.21		7410	0.89	554		0.250	57	10
201831	Scioto River	379	186.00	06/23/2009 11:10	2160	1.13	480		0.140	62	13
201831	Scioto River	379	186.00	07/14/2009 10:00	5720	0.90	606		0.540	51	10
201831	Scioto River	379	186.00	08/04/2009 10:35	7730	0.61	542		0.235	74	10
201831	Scioto River	379	186.00	08/18/2009 10:10	6550	0.78	546		0.237	49	10
201831	Scioto River	379	186.00	09/01/2009 10:00	2540	1.48	326		0.218	72	10
201831	Scioto River Median	379	186.00		5720	0.90	542		0.235	62	10
V01W15	Scioto River	407	179.05	06/24/2009 08:45	2180		454			60	10
V01W15	Scioto River	407	179.05	07/15/2009 09:05	4950	0.80	582		0.217	51	10
V01W15	Scioto River	407	179.05	08/05/2009 09:15	7250	1.09	508		0.231	48	10
V01W15	Scioto River	407	179.05	08/19/2009 08:45	8600	0.59	546		0.198	36	10
V01W15	Scioto River	407	179.05	09/02/2009 08:55	2150	1.00	292		0.183	82	15
V01W15	Scioto River Median	407	179.05		4950	0.90	508		0.208	51	10
601280	Scioto River	567	169.25	02/10/2009 12:10	689	1.36	268		0.297	70	15
601280	Scioto River	567	169.25	03/11/2009 12:15	987	1.07	362		0.199	54	22
601280	Scioto River	567	169.25	04/08/2009 12:15	1520	0.87	406		0.350	62	20
601280	Scioto River	567	169.25	05/21/2009 11:28	3050	0.45	518		0.169	44	12
601280	Scioto River	567	169.25	05/27/2009 09:45	3970	0.73	510		0.165	44	13
601280	Scioto River	567	169.25	06/08/2009 11:33	2860	0.78	512		0.160	49	11
601280	Scioto River	567	169.25	06/24/2009 09:40	2230	0.86	420		0.191	89	10
601280	Scioto River	567	169.25	07/15/2009 09:55	5350	0.87	546		0.278	24	10
601280	Scioto River	567	169.25	07/30/2009 09:55	4970	0.62	516		0.360	46	10
601280	Scioto River	567	169.25	08/05/2009 10:00	7390	0.83	554		0.505	40	11
601280	Scioto River	567	169.25	08/19/2009 09:45	7370	0.80	602		0.571	34	10
601280	Scioto River	567	169.25	09/02/2009 09:40	2540	0.74	314		0.335	52	15
601280	Scioto River	567	169.25	09/02/2009 15:20							
601280	Scioto River	567	169.25	09/22/2009 11:55	5530	0.66	530		0.312	25	10
601280	Scioto River Median	567	169.25		4470	0.76	517		0.295	44	11
V01W27	Silver Creek	11.3	2.32	06/22/2009 11:55	1360	1.10	396		0.086	6	10
V01W27	Silver Creek	11.3	2.32	07/13/2009 11:10	1630	0.85	358		0.181	129	21
V01W27	Silver Creek	11.3	2.32	08/03/2009 11:15	1250	1.46	316		0.365	7	10
V01W27	Silver Creek	11.3	2.32	08/17/2009 11:15	1160	2.52	392		0.486	7	10
V01W27	Silver Creek Median	11.3	2.32								
V01S07	Taylor Creek	12.7	4.43	06/22/2009 10:20		0.64	434		0.045	14	
V01S07	Taylor Creek	12.7	4.43	07/13/2009 10:00		0.41	470		0.053	5	
V01S07	Taylor Creek	12.7	4.43	08/03/2009 10:05		0.20	436		0.040	5	
V01S07	Taylor Creek	12.7	4.43	08/17/2009 10:10		0.46	470		0.039	5	
V01S07	Taylor Creek	12.7	4.43	08/31/2009 12:30		0.22	376		0.025	5	
V01S07	Taylor Creek Median	12.7	4.43			0.41	436		0.040	5	
V01P01	Taylor Creek	16.3	0.76	02/10/2009 10:00	1030	1.15	376		0.237	34	10

Station	River or Stream	DA	RM	Date/Time	Strontium	TKN	TDS	phosphorous, dis	total Phosphoru	TSS	Zinc
V01P01	Taylor Creek	16.3	0.76	03/11/2009 09:45	1240	0.96	320		0.173	55	16
V01P01	Taylor Creek	16.3	0.76	04/08/2009 09:45	2410	0.54	368		0.076	6	10
V01P01	Taylor Creek	16.3	0.76	05/06/2009 10:20	3710	0.42	418		0.046	5	10
V01P01	Taylor Creek	16.3	0.76	05/21/2009 08:55	6640	0.37	490		0.034	5	10
V01P01	Taylor Creek	16.3	0.76	06/08/2009 09:07	3820	0.93	438		0.082	9	10
V01P01	Taylor Creek	16.3	0.76	06/22/2009 11:10	5270	2.88	474		0.203	7	10
V01P01	Taylor Creek	16.3	0.76	06/30/2009 15:12	8880	1.78	590		0.226	7	10
V01P01	Taylor Creek	16.3	0.76	06/30/2009 15:23							
V01P01	Taylor Creek	16.3	0.76	06/30/2009 15:45							
V01P01	Taylor Creek	16.3	0.76	07/13/2009 11:00	13400	1.69	660		0.596	9	10
V01P01	Taylor Creek	16.3	0.76	07/29/2009 10:00	15300	0.36	624		0.014	6	10
V01P01	Taylor Creek	16.3	0.76	08/03/2009 11:00	13500	0.77	480		0.280	5	10
V01P01	Taylor Creek	16.3	0.76	08/17/2009 11:05	24700	0.56	654		0.123	15	10
V01P01	Taylor Creek	16.3	0.76	08/31/2009 11:45	8260	0.32	374		0.062	5	10
V01P01	Taylor Creek	16.3	0.76	09/22/2009 09:30	16700	0.74	646		0.270	7	10
V01P01	Taylor Creek Median	16.3	0.76		8880	0.74	490		0.123	7	10
300688	Wallace Fork	4.8	0.23	06/22/2009 09:25		0.53	410		0.010	5	
300688	Wallace Fork	4.8	0.23	07/13/2009 09:00			472		0.066	42	
300688	Wallace Fork	4.8	0.23	08/03/2009 08:55		0.72	446		0.110	28	
300688	Wallace Fork	4.8	0.23	08/17/2009 09:05		1.08	406		0.091	53	
300688	Wallace Fork	4.8	0.23	09/02/2009 11:51							
300688	Wallace Fork Median	4.8	0.23			0.72	428		0.079	35	
V01W31	Wildcat Creek	4.3	6.72	06/23/2009 09:15		1.17	400		0.084	8	
V01W31	Wildcat Creek	4.3	6.72	07/14/2009 08:45		0.97	400		0.088	5	
V01W31	Wildcat Creek	4.3	6.72	08/04/2009 09:15		0.90	368		0.174	7	
V01W31	Wildcat Creek	4.3	6.72	08/18/2009 08:48		0.77	404		0.254	145	
V01W31	Wildcat Creek	4.3	6.72	09/01/2009 08:15		1.57	336		0.193	21	
V01W31	Wildcat Creek Median	4.3	6.72			0.97	400		0.174	8	
300692	Wildcat Creek	8.4	4.00	06/23/2009 09:25		1.16	410		0.082	23	
300692	Wildcat Creek	8.4	4.00	07/14/2009 08:55		0.87	480		0.038	10	
300692	Wildcat Creek	8.4	4.00	08/04/2009 09:25		0.63	390		0.071	22	
300692	Wildcat Creek	8.4	4.00	08/18/2009 09:00		0.63	480		0.064	27	
300692	Wildcat Creek	8.4	4.00	09/01/2009 08:50		1.36	386		0.151	8	
300692	Wildcat Creek Median	8.4	4.00			0.87	410		0.071	22	
V01W32	Wildcat Creek	22.2	0.49	06/23/2009 09:35	2730	1.18	416		0.115	32	10
V01W32	Wildcat Creek	22.2	0.49	07/14/2009 09:05	8740	0.60	512		0.080	9	10
V01W32	Wildcat Creek	22.2	0.49	08/04/2009 09:40	9920	0.58	444		0.115	44	10
V01W32	Wildcat Creek	22.2	0.49	08/18/2009 09:10	10700	0.73	488		0.111	12	10
V01W32	Wildcat Creek	22.2	0.49	09/01/2009 09:05	3450	1.23	376		0.193	21	10
V01W32	Wildcat Creek Median	22.2	0.49		8740	0.73	444		0.115	21	10
300691	Wolf Creek	12	0.51	06/22/2009 09:30		0.88	400		0.064	5	
300691	Wolf Creek	12	0.51	07/13/2009 09:15		0.61	616		0.438	17	
300691	Wolf Creek	12	0.51	08/03/2009 09:20		0.42	680		0.076	5	
300691	Wolf Creek	12	0.51	08/17/2009 09:20		0.60	738		0.080	5	
300691	Wolf Creek	12	0.51	08/31/2009 10:45		1.55			0.071		
300691	Wolf Creek Median	12	0.51			0.61	648		0.076	5	

Appendix G-1

Durez Corporation - Chronology of Events and Remediation Plan

Durez Corporation - Chronology of Events and Remediation Plan

On July 29, 2009, Ohio EPA's Central Office field staff discovered a fish kill and black colored water in Taylor Creek downstream of the Durez Corporation outfall. The incident was reported to DERR for investigation. The investigation revealed black colored material on the stream bottom and whitish gray scum on the water surface downstream of the outfall. The water was clear upstream of the outfall. Low dissolved oxygen levels were analyzed downstream of the outfall. DERR issued an NOV to Durez and requested that they investigate and stop the discharge of the black particulate and water containing low dissolved oxygen. A similar fish kill was reported downstream of the Durez outfall in June, however upon investigation high water conditions in Taylor Creek prevented DERR from determining the source. During both incidents Durez indicated that the discharge from their WWTP was in compliance with NPDES permit limits.

On July 30, 2009, DSW (Tom Poffenbarger) conducted a follow-up inspection. The same type conditions were observed in Taylor Creek. Durez Corporation officials were unable to identify the cause of the maltreated water in the outfall at Taylor Creek. They stated that they had not discharged any process wastewater since July 24, 2009, only non-contact cooling water from their heat exchangers was being discharged, and the discharge was clear and meeting NPDES permit limits at the discharge monitoring point (approximately ½ mile from Taylor Creek). The water in Taylor Creek was very stagnant, several dead fish were observed downstream of the Durez Outfall, several dead fish, and one live but very distressed fish were also observed in the clear, but stagnant water upstream of the outfall.

On August 3, 2009, DSW conducted another follow-up inspection of the discharge from Durez outfall to Taylor Creek. The discharge from the outfall was clear. However, orange/rust colored residuals were observed on the creek bottom. Durez stated that the orange colored water at the discharge point at Taylor Creek was probably non-contact cooling water rust. They indicated that it was a temporary condition based on restarting of the flow of well water that had been shut off from July 30th until August 3rd. An NOV was issued to Durez on August 5, 2009 for both incidents. *Durez has hinted that they believe that the fish kills and low dissolved oxygen levels in Taylor Creek were due to flow restrictions caused by a beaver dam that was located near County Road 155. This beaver dam was removed from the creek at the beginning of September 2009.*

In response to fish kills in Taylor Creek in June and July, DSW conducted sediment sampling on August 17, 2009. Sampling results indicated elevated levels of copper, strontium and zinc downstream of the discharge. Thirteen priority pollutants were detected in the downstream sample. Of these 5 of 6 PAHs (polycyclic aromatic hydrocarbons) were detected at levels above the Consensus Based Sediment Quality Guidelines PEC (probable effect concentration). In addition, Toluene and 3&4 methylphenol were present in high enough concentrations to have been the probable cause of the recent fish kills. DSW sent an NOV to Durez Corporation on September 4, 2009, documenting these sampling results and requesting that they develop a sampling plan to determine the extent of contamination in Taylor Creek and to provide remediation.

On November 18, 2009, we were notified by Ohio Department of Natural Resources (ODNR) of cloudy water with scum on the surface in Taylor Creek at County Road 155, downstream of the Durez Corporation outfall. ODNR traced these conditions to a location just downstream of the Durez outfall. Conditions upstream of the outfall were clear. On November 19, 2009, we informed Durez of the conditions observed in the stream. We asked if they were aware of

anything unusual occurring at the Durez plant which would cause the changes in Taylor Creek. They indicated that they had been bypassing the activated carbon towers in the wastewater treatment system. On November 18, 2009, the towers were put back on line. The discoloration of the discharge was observed. Therefore, the towers were taken back off line. Subsequently, the discharge cleared up. Durez suspected that the activated carbon in the towers is spent and needs to be replaced. They stated that they do not plan to use the towers until the problem is resolved.

On November 30, 2009, Durez Corporation reported that an equipment malfunction in their wastewater treatment plant occurred, during a period that the plant was not staffed, between Saturday afternoon and Sunday morning (November 28-29). The equipment malfunction allowed solids from the wastewater treatment system to discharge into Taylor Creek, covering the streambed for approximately 700 feet downstream of their outfall. On December 1st, DSW conducted an inspection at the facility. A 3-6 inch blanket of solids was observed on the bottom of Taylor Creek. Discharge from the treatment system was being diverted to onsite containment until all equipment is returned to operation. The facility hired an environmental contractor to remove solids from the stream, which was performed on December 2-3, 2009.

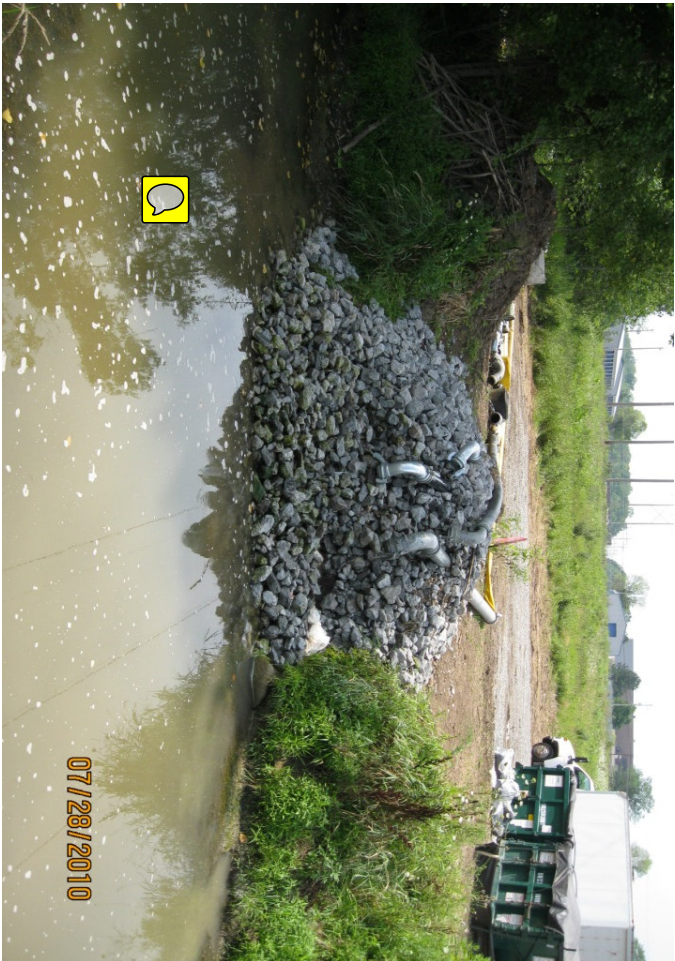
On December 4, 2009, after the clean-up from the November 28-29 incident was finished, Durez resumed discharge from their wastewater treatment system. Solids remaining in their discharge tile were flushed into Taylor Creek. The discharge was stopped again. Solids were removed from the Creek and the outfall tile was cleaned on December 5, 2009.

On December 4, 2009, DSW met with Durez to discuss results of their sediment sampling and remediation plan prepared to respond to the fish kill incidents that occurred in Taylor Creek in June and July 2009. The sample results indicate elevated levels of pollutants in the sediment at their outfall to a point 1050 feet downstream of their outfall. The pollutant levels generally decreased with the depth of the sediment sample and with the distance downstream of the outfall. Their remediation plan will consist of removal of sediment to a depth of 16 inches from the outfall to a point 1050 feet downstream of the outfall. Sediment will be removed to a depth of 24 inches at their outfall and at a point 500 feet downstream of the outfall (these locations contained higher concentrations of pollutants at a depth of 12 inches). The stream will be backfilled in segments after the contaminated sediment is removed.

Mobilization and site preparation activities began on July 12, 2010. All removal activities and confirmatory sampling were completed on September 17, 2010. The report indicates that 202 loads (5,050 cubic yards with a weight of 4,347 tons) of sediment were removed from Taylor Creek and disposed as non-hazardous waste at the Cherokee Run Landfill in Bellefontaine, Ohio. The length of excavation in Taylor Creek was from 10 feet upstream of the Durez outfall to 1400 feet downstream of the outfall. Sediment in the creek bed was removed to depths ranging from 16 to 48 inches. All confirmatory sample results collected from the streambed prior to backfill met the Acceptance Criteria proposed in the December 10, 2009, Taylor Creek Sampling Results and Removal Plan.











08/19/2018