State of Ohio
Environmental Protection Agency

Division of Surface Water

Appendices to Biological and Water Quality Study of the Upper Great Miami River and Selected Tributaries 2008

10-Digit Hydrologic Unit Codes 05080001 01, 02, 03, 04, 05, and 06

Auglaize, Mercer, Logan, Shelby, Champaign, and Darke Counties

OHIO EPA Technical Report EAS/2011-1-1

January 1, 2011

John R. Kasich, Governor, State of Ohio

Scott J. Nally, Director

TABLE OF CONTENTS

Appendix A – Water Chemistry Results ..... A-i
Appendix B – Sediment Results ..... B-i
Appendix C – QHEI Attributes and Survey sites under county ditch maintenance ..... C-i
Appendix D – Fish IBI and MIwb Results ..... D-i
Appendix E – Fish Relative Numbers and Species ..... E-i
Appendix F – Macroinvertebrate ICI Scores ..... F-i
Appendix G – Macroinvertebrate Summary Collection Data and Species Lists ..... G-i

Ohio EPA received financial assistance for this work from U.S. EPA and the American Recovery and Reinvestment Act of 2009.

APPENDIX A

Tables A-1 to A-7

Water Column Chemistry,

Volatile and Semivolatile Organic Compounds, Pesticides, PCBs,

Bacteria, and Datasonde® Continuous Monitor Sampling Results

From the Upper Great Miami River Basin, 2008-09

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: **GREAT MIAMI R. 0.1 MI. UPST. LOGAN CO. INDIAN LAKE WWTP** SWDO Map # 1

River Mile: 158.20 Storet ID: H01W13 WAU 05080001-03-02

Latitude/Longitude: 40.4556 /-83.8953 Drainage Area (mi2): 122 County: Logan Ecoregion: ECBP USGS Quad: Russells Point

Date Collected	6/26/2008	7/17/2008	7/31/2008	8/7/2008	8/21/2008	9/25/2008
Time	12:30	9:55	10:45	10:50	10:00	10:40
Temp (C)	22.44	24.80	21.63	22.28	18.80	
D.O. (mg/l)	7.20	5.54	5.43	5.31	7.00	
D.O. (% sat)	83.1	66.9	61.7	61.2	75.3	
pH (fld) SU	7.88	7.70	7.98	7.82	8.05	
Sp Cond (fld)(µmhos/cm)	351.6	451.9	724	871	739.5	
Sp Cond (lab)(µmhos/cm)	366	435	704	666	712	741
BOD5 (mg/l)						
CBOD20 (mg/l)						
COD (mg/l)	22	28	<10	12	14	<10
Ammonia-N (mg/l)	0.177	0.119	0.13	0.121	0.099	<0.050
Nitrate-nitrite-N (mg/l)	1.15	0.41	0.53	0.55	0.48	0.26
Nitrite-N (mg/l)	0.028	<0.020	<0.020	<0.020	<0.020	<0.020
TKN (mg/l)	1.61	0.73	1.03	0.28	0.44	0.21
Orthophosphate (mg/l)	0.055	<0.010	0.02	0.025	0.012	
Phosphorus-T (mg/l)	0.247	0.085	0.071	0.049	0.037	0.035
TSS (mg/l)	165	65	42	74	40	23
TDS (mg/l)	258	294	450	414	470	458
Chloride (mg/l)	12.7	14.7	22.9	22.4	24.8	23.1
Aluminum-T (µg/l)	2960		661		467	
Arsenic-T (µg/l)	3		<2.0		<2.0	
Barium-T (µg/l)	67		98		99	
Cadmium-T (µg/l)	<0.20		<0.20		<0.20	
Calcium-T (mg/l)	47		87		84	
Chromium-T (µg/l)	3.5		<2.0		<2.0	
Copper-T (µg/l)	4.6		<2.0		<2.0	
Iron-T (µg/l)	4110		1240		939	
Lead-T (µg/l)	3.2		<2.0		<2.0	
Magnesium-T (mg/l)	18		36		36	
Manganese-T (µg/l)	132		76		49	
Mercury-T (µg/l)	<0.20		<0.20		<0.20	
Nickel-T (µg/l)	7.2		3.7		3.1	
Potassium-T (mg/l)	4		2		2	
Selenium-T (µg/l)	<2.0		<2.0		<2.0	
Sodium-T (mg/l)	6		12		11	
Strontium-T (µg/l)	828		2570		2780	
Zinc-T (µg/l)	23		<10		51	
Hardness (mg/l CaCO3)	191		365		358	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: **RUSSELS POINT/LOGAN CO. INDIAN LAKE WWTP OUTFALL** SWDO Map # 2

River Mile: 158.05 Storet ID: H01E01 WAU 05080001-03-02

Latitude/Longitude: 40.45613 /-83.8955 Drainage Area (mi2): NA County: Logan Ecoregion: ECBP USGS Quad: Russells Point

Date Collected	6/26/2008	7/17/2008	7/31/2008	8/7/2008	8/21/2008	9/25/2008
Time	12:00	9:15	10:30	10:20	9:45	10:20
Temp (C)	18.29	19.37	19.93	20.03	18.80	19.43
D.O. (mg/l)	7.59	7.21	8.32	8.93	6.53	7.43
D.O. (% sat)	80.9	78.6	92.0	98.8	70.3	81.4
pH (fld) SU	7.48	7.42	7.67	7.64	8.04	7.42
Sp Cond (fld)(µmhos/cm)	799	1629.6	2175	1878	739.5	2355.9
Sp Cond (lab)(µmhos/cm)	833	1570	2030	2060	2180	2520
BOD5 (mg/l)						
CBOD20 (mg/l)						
COD (mg/l)	25	37	19	30	23	17
Ammonia-N (mg/l)	2	0.117	0.102	0.087	0.109	0.093
Nitrate-nitrite-N (mg/l)	6.42	12.5	24.5	24.8	28.8	32.2
Nitrite-N (mg/l)	0.043	0.028	<0.020	<0.020	<0.020	<0.020
TKN (mg/l)	3.93	1.05	1.34	1.25	1.25	1.66
Orthophosphate (mg/l)	0.826	0.956	2.57	2.82	2.65	
Phosphorus-T (mg/l)	1.49	1.01	2.35	2.45	2.62	3.02
TSS (mg/l)	58	<5	<5	<5	<5	<5
TDS (mg/l)	494	1000	1300	1270	1390	1450
Chloride (mg/l)	100	244	403	383	446	483
Aluminum-T (µg/l)	827		<200		<200	
Arsenic-T (µg/l)	2.7		2.8		3.3	
Barium-T (µg/l)	74		62		64	
Cadmium-T (µg/l)	<0.20		<0.20		<0.20	
Calcium-T (mg/l)	62		113		114	
Chromium-T (µg/l)	<2.0		<2.0		<2.0	
Copper-T (µg/l)	14.9		5.9		5.4	
Iron-T (µg/l)	2820		118		118	
Lead-T (µg/l)	<2.0		<2.0		<2.0	
Magnesium-T (mg/l)	21		42		42	
Manganese-T (µg/l)	116		<10		<10	
Mercury-T (µg/l)	<0.20		<0.20		<0.20	
Nickel-T (µg/l)	4.4		3.9		3.4	
Potassium-T (mg/l)	5		11		13	
Selenium-T (µg/l)	<2.0		<2.0		<2.0	
Sodium-T (mg/l)	74		322		287	
Strontium-T (µg/l)	2720		10300		9880	
Zinc-T (µg/l)	53		27		22	
Hardness (mg/l CaCO3)	241		455		458	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: GREAT MIAMI R. AT RUSSELLS POINT @ ST. RT. 235 SWDO Map # 3

River Mile: 157.22 Storet ID: H01P04 WAU 05080001-03-02

Latitude/Longitude: 40.4512 /-83.9071 Drainage Area (mi2): 131 County: Logan Ecoregion: ECBP USGS Quad: Russells Point

Date Collected	6/26/2008	7/17/2008	7/31/2008	8/7/2008	8/21/2008	9/25/2008
Time	10:55	11:30	11:55	11:15	11:00	11:05
Temp (C)	21.13	25.30	22.72	21.56	19.56	
D.O. (mg/l)	7.05	6.79	3.96	6.58	6.30	
D.O. (% sat)	79.3	82.8	46.1	74.7	68.9	
pH (fld) SU	7.63	7.87	7.84	8.08	7.94	
Sp Cond (fld)(µmhos/cm)	316.7	488.9	859	712	1125.9	
Sp Cond (lab)(µmhos/cm)	331	475	842	828	1070	1260
BOD5 (mg/l)		3.2	<2.0	<2.0	<2.0	<2.0
CBOD20 (mg/l)		10	4.9	3.6	<3.0	3.2
COD (mg/l)	16	34	24	30	11 J	<10
Ammonia-N (mg/l)	0.425	0.14	0.16	0.149	0.133	0.096
Nitrate-nitrite-N (mg/l)	1.91	0.62	3.94	4.45	7.35	8.49
Nitrite-N (mg/l)	0.051	<0.020	<0.020	0.023	<0.020	0.031
TKN (mg/l)	1.47	0.71	1.32	0.88	0.72	1.18
Orthophosphate (mg/l)	0.105	0.011	0.339	0.399	0.57	
Phosphorus-T (mg/l)	0.294	0.102	0.473	0.426	0.597	0.918
TSS (mg/l)	220	78	46	39	33	23
TDS (mg/l)	264	338	532	520	666	732
Chloride (mg/l)	13.3	20.8	72.9	77.7	112	138
Aluminum-T (µg/l)	5640		848		550	
Arsenic-T (µg/l)	3.5		2.7		2.2	
Barium-T (µg/l)	88		84		94	
Cadmium-T (µg/l)	<0.20		<0.20		<0.20	
Calcium-T (mg/l)	43		81		92	
Chromium-T (µg/l)	6.2		<2.0		<2.0	
Copper-T (µg/l)	8		2.7		2.6	
Iron-T (µg/l)	7600		1620		1110	
Lead-T (µg/l)	5.9		<2.0		<2.0	
Magnesium-T (mg/l)	17		32		39	
Manganese-T (µg/l)	173		105		53	
Mercury-T (µg/l)	<0.20		<0.20		<0.20	
Nickel-T (µg/l)	11.3		4.3		3.6	
Potassium-T (mg/l)	5		4		5	
Selenium-T (µg/l)	<2.0		<2.0		<2.0	
Sodium-T (mg/l)	6		47		76	
Strontium-T (µg/l)	690		3210		4800	
Zinc-T (µg/l)	36		10		<10	
Hardness (mg/l CaCO3)	177		334		390	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: **GREAT MIAMI R. S OF RUSSELLS POINT @ NOTESTINE RD.** SWDO Map # 4

River Mile: 153.45 Storet ID: H01S03 WAU 05080001-03-06

Latitude/Longitude: 40.4011 /-83.924 Drainage Area (mi2): 246 County: Logan Ecoregion: ECBP USGS Quad: Russells Point

Date Collected	6/26/2008	7/17/2008	7/31/2008	8/7/2008	8/21/2008	9/25/2008
Time	9:30	12:00	1:45	1:50	1:10	1:30
Temp (C)	20.29	24.23	22.64	22.56	19.70	17.49
D.O. (mg/l)	5.96	4.26	3.79	4.83	4.49	6.13
D.O. (% sat)	66.0	50.8	44.0	55.9	49.3	64.2
pH (fld) SU	8.04	7.69	7.79	7.86	7.80	7.68
Sp Cond (fld)(µmhos/cm)	145.7	530.4	813	806	960.4	919.5
Sp Cond (lab)(µmhos/cm)	242	504	792	772	907	992
BOD5 (mg/l)						
CBOD20 (mg/l)						
COD (mg/l)	25	34	64	17	14	11
Ammonia-N (mg/l)	0.286	0.11	0.255	0.201	0.192	0.124
Nitrate-nitrite-N (mg/l)	2.9	0.99	1.92	1.8	3.57	3.9
Nitrite-N (mg/l)	0.055	<0.020	0.047	0.039	0.044	0.058
TKN (mg/l)	0.87	0.57	1.16	0.63	0.66	0.98
Orthophosphate (mg/l)						
Phosphorus-T (mg/l)	0.427	0.122	0.158	0.183	0.189	0.406
TSS (mg/l)	538	66	34	36	28	30
TDS (mg/l)	198	346	532	468	570	588
Chloride (mg/l)	7.7	19.3	48.9	52	74.9	84
Aluminum-T (µg/l)	14300		664		599	
Arsenic-T (µg/l)	3.8		2.5		2.5	
Barium-T (µg/l)	138		87		96	
Cadmium-T (µg/l)	0.27		<0.20		<0.20	
Calcium-T (mg/l)	24		86		94	
Chromium-T (µg/l)	13.4		<2.0		<2.0	
Copper-T (µg/l)	14.3		2.1		<2.0	
Iron-T (µg/l)	17300		1170		996	
Lead-T (µg/l)	12.9		<2.0		<2.0	
Magnesium-T (mg/l)	11		32		37	
Manganese-T (µg/l)	235		122		95	
Mercury-T (µg/l)	<0.20		<0.20		<0.20	
Nickel-T (µg/l)	20.2		4.1		3.6	
Potassium-T (mg/l)	6		3		4	
Selenium-T (µg/l)	<2.0		<2.0		<2.0	
Sodium-T (mg/l)	<5		28		46	
Strontium-T (µg/l)	419		2940		3890	
Zinc-T (µg/l)	78		25		<10	
Hardness (mg/l CaCO3)	105		347		387	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: **GREAT MIAMI R. AT DEGRAFF @ ST. RT. 235** SWDO Map # 5

River Mile: 146.19 Storet ID: H01S20 WAU 05080001-03-06

Latitude/Longitude: 40.3128 /-83.9272 Drainage Area (mi2): 296 County: Logan Ecoregion: ECBP USGS Quad: De Graff

Date Collected	6/26/2008	7/17/2008	7/31/2008	8/7/2008	8/21/2008	9/25/2008
Time	10:40	9:45	10:25	10:45	10:00	10:25
Temp (C)	19.46	23.67	22.51	22.43	20.18	17.33
D.O. (mg/l)	6.34	6.36	5.56	5.56	6.33	5.76
D.O. (% sat)	69.0	75.1	64.3	64.3	70.0	60.1
pH (fld) SU	7.36	7.74	7.87	7.88	7.94	7.85
Sp Cond (fld)(µmhos/cm)	158	496	758	778	846	893
Sp Cond (lab)(µmhos/cm)	153 RC	486	747	772	830	926
BOD5 (mg/l)						
CBOD20 (mg/l)						
COD (mg/l)	16	22	<10	15	11	11
Ammonia-N (mg/l)	0.311	0.064	0.056	0.085	0.05	0.051
Nitrate-nitrite-N (mg/l)	3.09	1.1	1.53	1.84	2.01	1.47
Nitrite-N (mg/l)	0.046	<0.020	0.024	0.02	<0.020	<0.020
TKN (mg/l)	1.32	0.68	0.51	0.38	0.45	0.61
Orthophosphate (mg/l)						
Phosphorus-T (mg/l)	0.544	0.141	0.116	0.138	0.129	0.176
TSS (mg/l)	552	41	31	26	28	30
TDS (mg/l)	200 RC	334	512	476	528	540
Chloride (mg/l)	<5.0	18.5	38.7	49.1	56.9	66.7
Aluminum-T (µg/l)	13500		808		699	
Arsenic-T (µg/l)	3.8		2.4		2.5	
Barium-T (µg/l)	131		95		96	
Cadmium-T (µg/l)	0.28		<0.20		<0.20	
Calcium-T (mg/l)	23		92		88	
Chromium-T (µg/l)	11.4		<2.0		<2.0	
Copper-T (µg/l)	12.8		<2.0		<2.0	
Iron-T (µg/l)	18300		1210		1050	
Lead-T (µg/l)	12.8		<2.0		<2.0	
Magnesium-T (mg/l)	10		34		35	
Manganese-T (µg/l)	250		85		69	
Mercury-T (µg/l)	<0.20		<0.20		<0.20	
Nickel-T (µg/l)	17.8		4.2		3.6	
Potassium-T (mg/l)	6		3		3	
Selenium-T (µg/l)	<2.0		<2.0		<2.0	
Sodium-T (mg/l)	<5		23		33	
Strontium-T (µg/l)	320		2920		3580	
Zinc-T (µg/l)	75		<10		29	
Hardness (mg/l CaCO3)	99		370		364	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: GREAT MIAMI R. AT QUINCY @ ST. RT. 235 SWDO Map # 6

River Mile: 143.20 Storet ID: H01W05 WAU 05080001-04-06

Latitude/Longitude: 40.303 /-83.9694 Drainage Area (mi2): 411 County: Logan Ecoregion: ECBP USGS Quad: De Graff

Date Collected	6/25/2008	7/16/2008	7/30/2008	8/6/2008	8/20/2008	9/24/2008
Time	10:05	10:30	9:50	10:50	11:10	10:35
Temp (C)	19.69	22.42	21.95	22.12	21.13	18.55
D.O. (mg/l)	7.00	6.67	7.90	7.44	8.64	10.16
D.O. (% sat)	76.7	77.0	90.5	85.5	97.3	108.7
pH (fld) SU	8.02	7.90	8.13	8.09	8.27	8.23
Sp Cond (fld)(µmhos/cm)	684.4	474.8	709.7	731.9	775.5	786.2
Sp Cond (lab)(µmhos/cm)	668	457	698 B	712	782	803
BOD5 (mg/l)						
CBOD20 (mg/l)						
COD (mg/l)	18	19	79	15	12	11
Ammonia-N (mg/l)	0.055	0.1	<0.050	0.072	<0.050	<0.050
Nitrate-nitrite-N (mg/l)	2.43	1.57	1.31	1.63	1.57	1 B
Nitrite-N (mg/l)	0.024	<0.020	<0.020	<0.020	<0.020	<0.020
TKN (mg/l)	0.45	0.74	0.47	0.44	0.32	0.49
Orthophosphate (mg/l)	0.054	0.044	0.054	0.109	0.062	0.071
Phosphorus-T (mg/l)	0.102	0.161	0.085	0.123	0.077	0.096
TSS (mg/l)	48	56	31	20	10	13
TDS (mg/l)	426	302	450	458	478	484
Chloride (mg/l)	32.1	17.1	35.4	46.4	48.8	49
Aluminum-T (µg/l)	1060		760		412	
Arsenic-T (µg/l)	<2.0		2.2		2.1	
Barium-T (µg/l)	108		116		120	
Cadmium-T (µg/l)	<0.20		<0.20		<0.20	
Calcium-T (mg/l)	89		87		85	
Chromium-T (µg/l)	<2.0		<2.0		<2.0	
Copper-T (µg/l)	2.6		<2.0		<2.0	
Iron-T (µg/l)	1750		1170		618	
Lead-T (µg/l)	<2.0		<2.0		<2.0	
Magnesium-T (mg/l)	32		34		37	
Manganese-T (µg/l)	72		75		42	
Mercury-T (µg/l)	<0.20		<0.20		<0.20	
Nickel-T (µg/l)	3.9		3.6		2.9	
Potassium-T (mg/l)	3		3		3	
Selenium-T (µg/l)	<2.0		<2.0		<2.0	
Sodium-T (mg/l)	17		20		29	
Strontium-T (µg/l)	1600		1700		2190	
Zinc-T (µg/l)	<10		<10		<10	
Hardness (mg/l CaCO3)	354		357		365	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: QUINCY WWTP 001 OUTFALL TO GREAT MIAMI R. SWDO Map # 7

River Mile: 143.10 Storet ID: H01W04 WAU 05080001-04-06

Latitude/Longitude: 40.30382 /-83.9707 Drainage Area (mi2): NA County: Logan Ecoregion: ECBP USGS Quad: De Graff

Date Collected	6/25/2008	7/16/2008	7/30/2008	8/6/2008	8/20/2008	9/24/2008
Time	9:50	9:50	10:10	10:30	10:55	10:55
Temp (C)	18.11	19.39	20.63	21.16	20.80	19.56
D.O. (mg/l)	7.94	7.32	6.87	7.20	10.09	7.50
D.O. (% sat)	84.3	79.8	76.7	81.3	113.1	82.0
pH (fld) SU	7.55	7.87	7.78	7.79	8.01	7.85
Sp Cond (fld)(µmhos/cm)	1079.7	957.3	1108.6	1214.3	1138.1	1170.3
Sp Cond (lab)(µmhos/cm)	1060	969	1100	1180	1160	1190
BOD5 (mg/l)						
CBOD20 (mg/l)						
COD (mg/l)	30	12	15	10	15	17
Ammonia-N (mg/l)	0.128	0.216	0.116	0.089	0.083	<0.050
Nitrate-nitrite-N (mg/l)	8.86	3.29	3.58	3.53	7.13	5.45 B
Nitrite-N (mg/l)	0.187	0.078	0.05	0.03	0.043	<0.020
TKN (mg/l)	1	0.91	1.37	1.16	0.83	0.94
Orthophosphate (mg/l)	2.01	0.787	0.988 J	1.16	1.45	
Phosphorus-T (mg/l)	1.93	0.863	1.08	1.13	1.3	1.81
TSS (mg/l)	<5	5	<5	<5	<5	<5
TDS (mg/l)	644	568	634	686	692	666
Chloride (mg/l)	115	99.3	128	158	149	148
Aluminum-T (µg/l)	<200		<200		<200	
Arsenic-T (µg/l)	2.5		2.1		3.2	
Barium-T (µg/l)	100		112		97	
Cadmium-T (µg/l)	<0.20		<0.20		<0.20	
Calcium-T (mg/l)	92		91		82	
Chromium-T (µg/l)	<2.0		<2.0		<2.0	
Copper-T (µg/l)	6.1		3.8		4	
Iron-T (µg/l)	56		77		<50	
Lead-T (µg/l)	<2.0		<2.0		<2.0	
Magnesium-T (mg/l)	33		34		33	
Manganese-T (µg/l)	<10		22		<10	
Mercury-T (µg/l)	<0.20		<0.20		<0.20	
Nickel-T (µg/l)	2.2		2.3		2.1	
Potassium-T (mg/l)	7		8		10	
Selenium-T (µg/l)	<2.0		<2.0		<2.0	
Sodium-T (mg/l)	83		95		118	
Strontium-T (µg/l)	1830		2110		2490	
Zinc-T (µg/l)	29		31		25	
Hardness (mg/l CaCO3)	366		367		341	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: GREAT MIAMI R. DST QUINCY WWTP @ RR BRIDGE SWDO Map # 8

River Mile: 142.50 Storet ID: H01S18 WAU 05080001-04-06

Latitude/Longitude: 40.3082 /-83.9742 Drainage Area (mi2): 412 County: Logan Ecoregion: ECBP USGS Quad: De Graff

Date Collected	6/25/2008	7/16/2008	7/30/2008	8/6/2008	8/20/2008	9/24/2008
Time	10:25	11:00	10:25	11:25	11:40	11:00
Temp (C)	19.77	22.49	22.11	23.03	21.20	18.30
D.O. (mg/l)	7.04	6.40	6.92	7.38	8.54	8.79
D.O. (% sat)	77.2	74.0	79.4	86.2	96.3	93.6
pH (fld) SU	8.01	7.94	8.16	8.25	8.36	8.20
Sp Cond (fld)(µmhos/cm)	683.9	476.4	704.6	725.2	777.6	795
Sp Cond (lab)(µmhos/cm)	669	468	702	711	768	810
BOD5 (mg/l)						
CBOD20 (mg/l)						
COD (mg/l)	18	12	12	11 J	<10	14
Ammonia-N (mg/l)	0.052	0.091	<0.050	0.066	<0.050	<0.050
Nitrate-nitrite-N (mg/l)	2.47	1.56	1.32	1.67	1.71	1.1 B
Nitrite-N (mg/l)	0.022	<0.020	<0.020	<0.020	<0.020	<0.020
TKN (mg/l)	0.48	0.56	0.45	0.81	0.31	0.57
Orthophosphate (mg/l)	0.062	0.046	0.059 J	0.115	0.077	0.109
Phosphorus-T (mg/l)	0.097	0.119	0.091	0.175	0.085	0.126
TSS (mg/l)	36	118	24	34	18	8
TDS (mg/l)	418	320	440	448	470	488
Chloride (mg/l)	31.7	17.2	36.5	46.9	49.8	51.1
Aluminum-T (µg/l)	792		545		254	
Arsenic-T (µg/l)	<2.0		2.1		<2.0	
Barium-T (µg/l)	106		114		113	
Cadmium-T (µg/l)	<0.20		<0.20		<0.20	
Calcium-T (mg/l)	89		85		81	
Chromium-T (µg/l)	<2.0		<2.0		<2.0	
Copper-T (µg/l)	2.4		<2.0		<2.0	
Iron-T (µg/l)	1330		902		396	
Lead-T (µg/l)	<2.0		<2.0		<2.0	
Magnesium-T (mg/l)	32		33		36	
Manganese-T (µg/l)	59		61		32	
Mercury-T (µg/l)	<0.20		<0.20		<0.20	
Nickel-T (µg/l)	3.6		3.5		2.7	
Potassium-T (mg/l)	3		3		3	
Selenium-T (µg/l)	<2.0		<2.0		<2.0	
Sodium-T (mg/l)	17		20		29	
Strontium-T (µg/l)	1610		1680		2120	
Zinc-T (µg/l)	<10		<10		<10	
Hardness (mg/l CaCO3)	354		348		351	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: GREAT MIAMI R. DST. QUINCY @ PENCE/BAKER RD. SWDO Map # 9

River Mile: 138.40 Storet ID: 610020 WAU 05080001-04-06

Latitude/Longitude: 40.3351 /-84.0398 Drainage Area (mi2): 429 County: Shelby Ecoregion: ECBP USGS Quad: Port Jefferson

Date Collected	6/25/2008	7/16/2008	7/30/2008	8/6/2008	8/20/2008	9/24/2008
Time	1:50	1:20	12:45	1:30	2:40	12:50
Temp (C)	20.39	23.26	22.79	23.65	22.82	19.27
D.O. (mg/l)	7.17	7.08	7.12	6.20	9.30	11.86
D.O. (% sat)	79.6	83.1	82.9	73.2	108.2	128.8
pH (fld) SU	8.05	8.08	8.19	8.14	8.47	8.43
Sp Cond (fld)(µmhos/cm)	662.3	478.1	703.7	689.1	756.8	766.6
Sp Cond (lab)(µmhos/cm)	650	471	694	692	743	786
BOD5 (mg/l)						
CBOD20 (mg/l)						
COD (mg/l)	24	15	12	<10	<10	<10
Ammonia-N (mg/l)	<0.050	0.086	<0.050	<0.050	<0.050	<0.050
Nitrate-nitrite-N (mg/l)	2.41	1.9	1.32	1.6	1.57	0.73 B
Nitrite-N (mg/l)	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
TKN (mg/l)	<0.20	0.52	0.44	0.23	0.33	0.7
Orthophosphate (mg/l)						
Phosphorus-T (mg/l)	0.096	0.124	0.09	0.107	0.071	0.096
TSS (mg/l)	35	53	20	12	9	21
TDS (mg/l)	404	298	448	432	464	480
Chloride (mg/l)	29.7	16.8	33.6	39	46.6	47.8
Aluminum-T (µg/l)	666		440		231	
Arsenic-T (µg/l)	<2.0		2		2.1	
Barium-T (µg/l)	99		117		112	
Cadmium-T (µg/l)	<0.20		<0.20		<0.20	
Calcium-T (mg/l)	85		88		79	
Chromium-T (µg/l)	<2.0		<2.0		<2.0	
Copper-T (µg/l)	2.7		<2.0		<2.0	
Iron-T (µg/l)	1130		718		364	
Lead-T (µg/l)	<2.0		<2.0		<2.0	
Magnesium-T (mg/l)	30		34		35	
Manganese-T (µg/l)	50		47		28	
Mercury-T (µg/l)	<0.20		<0.20		<0.20	
Nickel-T (µg/l)	3.5		3.2		2.5	
Potassium-T (mg/l)	2		3		3	
Selenium-T (µg/l)	<2.0		<2.0		<2.0	
Sodium-T (mg/l)	14		20		27	
Strontium-T (µg/l)	1470		1760		2090	
Zinc-T (µg/l)	10		<10		<10	
Hardness (mg/l CaCO3)	336		360		341	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: GREAT MIAMI R. AT SIDNEY @ ST. RT. 47 SWDO Map # 10

River Mile: 129.99 Storet ID: H02P12 WAU 05080001-07-03

Latitude/Longitude: 40.2869 /-84.15 Drainage Area (mi2): 541 County: Shelby Ecoregion: ECBP USGS Quad: Sidney

Date Collected	6/25/2008	7/16/2008	7/30/2008	8/6/2008	8/20/2008	9/24/2008
Time	2:20	2:05	1:30	2:10	3:20	1:20
Temp (C)	21.07	23.11	24.17	25.16	24.76	20.52
D.O. (mg/l)	7.74	7.96	7.95	8.53	10.25	12.46
D.O. (% sat)	87.1	93.2	94.9	103.7	123.7	138.7
pH (fld) SU	8.10	8.17	8.12	8.24	8.51	8.51
Sp Cond (fld)(µmhos/cm)	582.7	487.3	714.3	702.9	724.2	698.4
Sp Cond (lab)(µmhos/cm)	559	476	695	675	717	715
BOD5 (mg/l)	2.3	2.2	<2.0	<2.0	<2.0	4.9
CBOD20 (mg/l)	5.6	7	5.3	3.9	4.2	8.6
COD (mg/l)	<10	12	12	11	12	<10
Ammonia-N (mg/l)	0.087	0.065	<0.050	<0.050	<0.050	<0.050
Nitrate-nitrite-N (mg/l)	2.47	2.05	1.28	1.18	0.97	0.18 B
Nitrite-N (mg/l)	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
TKN (mg/l)	<0.20	0.49	0.22	<0.20	0.29	0.91
Orthophosphate (mg/l)	0.06	0.049	0.063 J	0.064	0.044	0.016
Phosphorus-T (mg/l)	0.111	0.091	0.08	0.086	0.058	0.046
TSS (mg/l)	83	40	21	20	17	12
TDS (mg/l)	340	298	428	412	438	430
Chloride (mg/l)	26.2	17.5	35.2	36	44.1	43.9
Aluminum-T (µg/l)	919		640		435	
Arsenic-T (µg/l)	<2.0		2.2		2.1	
Barium-T (µg/l)	90		115		109	
Cadmium-T (µg/l)	<0.20		<0.20		<0.20	
Calcium-T (mg/l)	75		88		76	
Chromium-T (µg/l)	<2.0		<2.0		<2.0	
Copper-T (µg/l)	3.2		2.1		<2.0	
Iron-T (µg/l)	1680		934		623	
Lead-T (µg/l)	4.1		<2.0		<2.0	
Magnesium-T (mg/l)	27		34		34	
Manganese-T (µg/l)	65		53		44	
Mercury-T (µg/l)	<0.20		<0.20		<0.20	
Nickel-T (µg/l)	3.3		3.3		2.8	
Potassium-T (mg/l)	2		3		3	
Selenium-T (µg/l)	<2.0		<2.0		<2.0	
Sodium-T (mg/l)	13		20		24	
Strontium-T (µg/l)	1190		1810		1930	
Zinc-T (µg/l)	13		<10		<10	
Hardness (mg/l CaCO3)	298		360		330	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: **N. FK. GREAT MIAMI R. E OF ROUNDHEAD @ FARM LANE** SWDO Map # 18

River Mile: 10.70 Storet ID: H01S28 WAU 05080001-01-01

Latitude/Longitude: 40.5606 /-83.7772 Drainage Area (mi2): 9 County: Hardin Ecoregion: ECBP USGS Quad: Roundhead

Date Collected	6/25/2008	7/16/2008	7/30/2008	8/6/2008	8/20/2008	9/24/2008
Time	1:00	12:20	2:25	1:10	1:15	1:20
Temp (C)	23.84	23.83	25.39	23.79	20.31	17.19
D.O. (mg/l)	12.27	10.47	6.12	5.54	4.51	6.30
D.O. (% sat)	145.6	124.2	74.7	65.7	50.0	65.5
pH (fld) SU	8.25	7.99	7.89	7.88	7.88	7.87
Sp Cond (fld)(µmhos/cm)	592	629	586	594	616	641
Sp Cond (lab)(µmhos/cm)	572	603	571	583	612	657
BOD5 (mg/l)						
CBOD20 (mg/l)						
COD (mg/l)	39	19	25 J	18	18	20
Ammonia-N (mg/l)	<0.050	<0.050	0.102	<0.050	<0.050	<0.050
Nitrate-nitrite-N (mg/l)	2.7	3.82	0.14	<0.10	<0.10	<0.10
Nitrite-N (mg/l)	0.022	0.037	<0.020	<0.020	<0.020	<0.020
TKN (mg/l)	0.5	0.25	0.77	0.52	0.68	0.56
Orthophosphate (mg/l)					0.016	0.028
Phosphorus-T (mg/l)	0.052	0.054	0.059	0.055	0.037	0.045
TSS (mg/l)	14	11	14	10	14	8
TDS (mg/l)	350	386	356	366	378	400
Chloride (mg/l)	24	22.7	30	30.6	42.7	37.8
Aluminum-T (µg/l)	453		338		425	
Arsenic-T (µg/l)	<2.0		2.8		3.2	
Barium-T (µg/l)	60		65		73	
Cadmium-T (µg/l)	<0.20		<0.20		<0.20	
Calcium-T (mg/l)	74		58		59	
Chromium-T (µg/l)	<2.0		<2.0		<2.0	
Copper-T (µg/l)	2.6		2.3		2.5	
Iron-T (µg/l)	714		519		665	
Lead-T (µg/l)	<2.0		<2.0		<2.0	
Magnesium-T (mg/l)	29		31		34	
Manganese-T (µg/l)	24		133		101	
Mercury-T (µg/l)	<0.20		<0.20		<0.20	
Nickel-T (µg/l)	3.1		4.2		4.7	
Potassium-T (mg/l)	2		4		6	
Selenium-T (µg/l)	<2.0		<2.0		<2.0	
Sodium-T (mg/l)	9		15		22	
Strontium-T (µg/l)	717		860		1260	
Zinc-T (µg/l)	<10		<10		<10	
Hardness (mg/l CaCO3)	304		272		287	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: **N. FK. GREAT MIAMI R. SE OF ROUNDHEAD @ DUNN RD.** SWDO Map # 19

River Mile: 6.31 Storet ID: H01P03 WAU 05080001-01-01

Latitude/Longitude: 40.5239 /-83.7997 Drainage Area (mi2): 14.4 County: Logan Ecoregion: ECBP USGS Quad: Roundhead

Date Collected	6/25/2008	7/16/2008	7/30/2008	8/6/2008	8/20/2008	9/24/2008
Time	12:25	11:40	1:50	12:30	12:40	1:00
Temp (C)	18.94	21.42	20.98	20.68	19.35	17.73
D.O. (mg/l)	10.46	8.94	10.24	8.59	8.94	6.82
D.O. (% sat)	112.8	101.3	115.0	95.9	97.2	71.8
pH (fld) SU	7.87	7.84	7.66	7.71	7.74	7.74
Sp Cond (fld)(µmhos/cm)	590	591	601	554	637	615
Sp Cond (lab)(µmhos/cm)	569	548	556	478	638	629
BOD5 (mg/l)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
CBOD20 (mg/l)	<3.0	4.1	<3.0	4.4	5.7	4.3
COD (mg/l)	<10	<10	12	15	<10	11
Ammonia-N (mg/l)	<0.050	0.137	0.058	<0.050	0.063	0.073
Nitrate-nitrite-N (mg/l)	4.13	4.52	1.75	0.27	2.88	0.63
Nitrite-N (mg/l)	<0.020	<0.020	<0.020	<0.020	0.02	<0.020
TKN (mg/l)	0.23	0.28	0.79	0.3	0.52	0.31
Orthophosphate (mg/l)	0.017	0.072	0.02 J	0.039	<0.010	0.014
Phosphorus-T (mg/l)	0.022	0.068	0.046	0.057	0.017	0.033
TSS (mg/l)	<5	<5	<5	5	18	17
TDS (mg/l)	368	346	350	304	390	392
Chloride (mg/l)	18.8	16.2	21.4	22.9	11.2	10.8
Aluminum-T (µg/l)	<200		<200		258	
Arsenic-T (µg/l)	<2.0		<2.0		<2.0	
Barium-T (µg/l)	50		54		65	
Cadmium-T (µg/l)	<0.20		<0.20		<0.20	
Calcium-T (mg/l)	77		77		100	
Chromium-T (µg/l)	<2.0		<2.0		<2.0	
Copper-T (µg/l)	2.3		<2.0		<2.0	
Iron-T (µg/l)	198		187		334	
Lead-T (µg/l)	<2.0		<2.0		<2.0	
Magnesium-T (mg/l)	26		27		29	
Manganese-T (µg/l)	10		35		52	
Mercury-T (µg/l)	<0.20		<0.20		<0.20	
Nickel-T (µg/l)	2.9		3.6		3.5	
Potassium-T (mg/l)	2		3		2	
Selenium-T (µg/l)	<2.0		<2.0		<2.0	
Sodium-T (mg/l)	7		8		<5	
Strontium-T (µg/l)	499		474		514	
Zinc-T (µg/l)	<10		<10		<10	
Hardness (mg/l CaCO3)	299		303		369	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: **S. FK. GREAT MIAMI R. S OF BELLE CENTER @ ST. RT. 638** SWDO Map # 11

River Mile: 8.00 Storet ID: H01P01 WAU 05080001-01-02

Latitude/Longitude: 40.4958 /-83.7428 Drainage Area (mi2): 12 County: Logan Ecoregion: ECBP USGS Quad: Rushsylvania

Date Collected	6/25/2008	7/16/2008	7/30/2008	8/6/2008	8/20/2008	9/24/2008
Time	2:20	1:40	3:40	2:45	2:20	2:45
Temp (C)	20.91	23.68	25.20	26.53	23.79	22.26
D.O. (mg/l)	12.31	11.95	14.23	13.51	13.56	12.75
D.O. (% sat)	138.1	141.4	173.3	168.4	160.8	146.9
pH (fld) SU	8.31	8.30	8.36	8.37	8.35	8.21
Sp Cond (fld)(µmhos/cm)	809	779	808	782	820	845
Sp Cond (lab)(µmhos/cm)	782	663	786	769	805	862
BOD5 (mg/l)						
CBOD20 (mg/l)						
COD (mg/l)	<10	12	<10	<10	<10	<10
Ammonia-N (mg/l)	<0.050	0.103	<0.050	<0.050	<0.050	<0.050
Nitrate-nitrite-N (mg/l)	1.55	1.46	1.02	1.27	0.95	0.36
Nitrite-N (mg/l)	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
TKN (mg/l)	<0.20	0.28	0.31	0.35	<0.20	0.26
Orthophosphate (mg/l)					<0.010	0.011
Phosphorus-T (mg/l)	0.018	0.051	0.011	0.016	0.011	0.015
TSS (mg/l)	<5	<5	<5	<5	<5	7
TDS (mg/l)	508	486	510	498	530	558
Chloride (mg/l)	16.9	19.8	16.8	16.8	16.1	15.2
Aluminum-T (µg/l)	<200		<200		<200	
Arsenic-T (µg/l)	<2.0		<2.0		<2.0	
Barium-T (µg/l)	61		62		61	
Cadmium-T (µg/l)	<0.20		<0.20		<0.20	
Calcium-T (mg/l)	98		91		87	
Chromium-T (µg/l)	<2.0		<2.0		<2.0	
Copper-T (µg/l)	<2.0		<2.0		<2.0	
Iron-T (µg/l)	160		92		127	
Lead-T (µg/l)	<2.0		<2.0		<2.0	
Magnesium-T (mg/l)	48		52		54	
Manganese-T (µg/l)	17		<10		16	
Mercury-T (µg/l)	<0.20		<0.20		<0.20	
Nickel-T (µg/l)	2.1		2.5		2.1	
Potassium-T (mg/l)	2		3		3	
Selenium-T (µg/l)	<2.0		<2.0		<2.0	
Sodium-T (mg/l)	10		11		11	
Strontium-T (µg/l)	2960		3410		3600	
Zinc-T (µg/l)	<10		<10		<10	
Hardness (mg/l CaCO3)	442		441		440	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: **S. FK. GREAT MIAMI R. AT BELLE CENTER @ CO. RD. 39** SWDO Map # 12

River Mile: 7.23 Storet ID: H01W17 WAU 05080001-01-02

Latitude/Longitude: 40.5015 /-83.7529 Drainage Area (mi2): 19.5 County: Logan Ecoregion: ECBP USGS Quad: Roundhead

Date Collected	6/25/2008	7/16/2008	7/30/2008	8/6/2008	8/20/2008	9/24/2008
Time	1:45	1:00	3:10	2:15	2:00	2:10
Temp (C)	20.66	22.57	23.63	24.52	21.37	19.69
D.O. (mg/l)	10.35	9.84	9.55	8.93	9.17	9.49
D.O. (% sat)	115.6	114.0	112.9	107.4	103.8	104.0
pH (fld) SU	8.11	8.02	8.08	8.01	8.06	7.96
Sp Cond (fld)(µmhos/cm)	831	775	850	829	845	848
Sp Cond (lab)(µmhos/cm)	803	752	848	816	830	870
BOD5 (mg/l)						
CBOD20 (mg/l)						
COD (mg/l)	<10	<10	12	<10	<10	<10
Ammonia-N (mg/l)	<0.050	<0.050	0.058	0.068	<0.050	<0.050
Nitrate-nitrite-N (mg/l)	1.33	1.51	0.69	0.79	0.49	0.2
Nitrite-N (mg/l)	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
TKN (mg/l)	<0.20	0.2	<0.20	0.51	<0.20	0.45
Orthophosphate (mg/l)						
Phosphorus-T (mg/l)	0.015	0.037	0.021	0.028	0.014	0.031
TSS (mg/l)	<5	<5	5	<5	5	5
TDS (mg/l)	524	486	588	548	554	584
Chloride (mg/l)	16.6	16.5	14.5	16	14.7	14.1
Aluminum-T (µg/l)	<200		<200		<200	
Arsenic-T (µg/l)	<2.0		<2.0		<2.0	
Barium-T (µg/l)	67		72		72	
Cadmium-T (µg/l)	<0.20		<0.20		<0.20	
Calcium-T (mg/l)	109		109		108	
Chromium-T (µg/l)	<2.0		<2.0		<2.0	
Copper-T (µg/l)	<2.0		<2.0		<2.0	
Iron-T (µg/l)	242		316		378	
Lead-T (µg/l)	<2.0		<2.0		<2.0	
Magnesium-T (mg/l)	43		45		48	
Manganese-T (µg/l)	36		54		59	
Mercury-T (µg/l)	<0.20		<0.20		<0.20	
Nickel-T (µg/l)	2.4		2.9		2.7	
Potassium-T (mg/l)	2		2		3	
Selenium-T (µg/l)	<2.0		<2.0		<2.0	
Sodium-T (mg/l)	9		10		10	
Strontium-T (µg/l)	3100		3660		3860	
Zinc-T (µg/l)	<10		<10		<10	
Hardness (mg/l CaCO3)	449		457		467	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: **S. FK. GREAT MIAMI R. N OF NEW RICHLAND @ CO. RD. 97** SWDO Map # 13

River Mile: 5.80 Storet ID: H01S12 WAU 05080001-01-02

Latitude/Longitude: 40.4944 /-83.7778 Drainage Area (mi2): 30 County: Logan Ecoregion: ECBP USGS Quad: Huntsville

Date Collected	6/25/2008	7/16/2008	7/30/2008	8/6/2008	8/20/2008	9/24/2008
Time	12:00	11:15	1:25	12:10	12:25	12:30
Temp (C)	19.00	19.76	22.17	21.82	19.22	17.61
D.O. (mg/l)	9.51	8.58	8.99	7.64	9.00	8.84
D.O. (% sat)	102.8	94.1	103.4	87.3	97.7	92.8
pH (fld) SU	8.06	7.93	8.07	8.01	8.12	8.01
Sp Cond (fld)(µmhos/cm)	823	761	842	835	833	834
Sp Cond (lab)(µmhos/cm)	796	742	825	825	819	860
BOD5 (mg/l)						
CBOD20 (mg/l)						
COD (mg/l)	<10	15	<10	16	18	<10
Ammonia-N (mg/l)	<0.050	0.107	<0.050	0.099	<0.050	<0.050
Nitrate-nitrite-N (mg/l)	1.46	1.82	0.59	0.62	0.34	0.16
Nitrite-N (mg/l)	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
TKN (mg/l)	<0.20	0.55	0.25	0.3	<0.20	0.42
Orthophosphate (mg/l)						
Phosphorus-T (mg/l)	0.024	0.047	0.021	0.037	0.023	0.023
TSS (mg/l)	5	8	<5	<5	<5	<5
TDS (mg/l)	526	486	572	542	552	570
Chloride (mg/l)	17	17.5	16.5	17.1	16.2	16.4
Aluminum-T (µg/l)	<200		<200		<200	
Arsenic-T (µg/l)	<2.0		<2.0		<2.0	
Barium-T (µg/l)	71		76		69	
Cadmium-T (µg/l)	<0.20		<0.20		<0.20	
Calcium-T (mg/l)	112		114		102	
Chromium-T (µg/l)	<2.0		<2.0		<2.0	
Copper-T (µg/l)	<2.0		<2.0		<2.0	
Iron-T (µg/l)	468		377		425	
Lead-T (µg/l)	<2.0		<2.0		<2.0	
Magnesium-T (mg/l)	39		42		43	
Manganese-T (µg/l)	43		43		39	
Mercury-T (µg/l)	<0.20		<0.20		<0.20	
Nickel-T (µg/l)	2.9		3.1		2.7	
Potassium-T (mg/l)	2		2		2	
Selenium-T (µg/l)	<2.0		<2.0		<2.0	
Sodium-T (mg/l)	9		11		11	
Strontium-T (µg/l)	3580		4400		4980	
Zinc-T (µg/l)	<10		<10		<10	
Hardness (mg/l CaCO3)	440		458		432	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: **S. FK. GREAT MIAMI R. DST. BELLE CENTER @ CO. RD. 96** SWDO Map # 14

River Mile: 3.95 Storet ID: H01S11 WAU 05080001-01-02

Latitude/Longitude: 40.4839 /-83.8071 Drainage Area (mi2): 47 County: Logan Ecoregion: ECBP USGS Quad: Huntsville

Date Collected	6/25/2008	7/16/2008	7/30/2008	8/6/2008	8/20/2008	9/24/2008
Time	11:15	10:45	12:55	11:45	12:05	12:10
Temp (C)	18.89	19.74	21.85	21.90	19.35	17.25
D.O. (mg/l)	9.13	7.99	8.19	7.75	8.62	6.64
D.O. (% sat)	98.5	87.6	93.6	88.6	93.8	69.3
pH (fld) SU	8.11	7.93	8.08	8.05	8.14	7.91
Sp Cond (fld)(µmhos/cm)	822	769	820	806	819	841
Sp Cond (lab)(µmhos/cm)	791	747	816	805	806	862
BOD5 (mg/l)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
CBOD20 (mg/l)	<3.0	3.8	<3.0	3.8	<3.0	<3.0
COD (mg/l)	<10	<10	<10	<10	12	<10
Ammonia-N (mg/l)	<0.050	<0.050	<0.050	0.085	<0.050	<0.050
Nitrate-nitrite-N (mg/l)	1.15	1.75	0.56	0.58	0.29	0.12
Nitrite-N (mg/l)	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
TKN (mg/l)	<0.20	0.34	0.29	0.24	0.47	0.38
Orthophosphate (mg/l)	0.016	0.043	0.021 J	0.036	0.014	0.022
Phosphorus-T (mg/l)	0.024	0.06	0.031	0.06	0.025	0.039
TSS (mg/l)	<5	7	<5	<5	<5	6
TDS (mg/l)	526	500	556	518	554	566
Chloride (mg/l)	17.7	18.5	17.3	19.1	17.2	17.8
Aluminum-T (µg/l)	<200		<200		<200	
Arsenic-T (µg/l)	<2.0		<2.0		<2.0	
Barium-T (µg/l)	76		78		79	
Cadmium-T (µg/l)	<0.20		<0.20		<0.20	
Calcium-T (mg/l)	112		108		110	
Chromium-T (µg/l)	<2.0		<2.0		<2.0	
Copper-T (µg/l)	<2.0		<2.0		<2.0	
Iron-T (µg/l)	338		257		271	
Lead-T (µg/l)	<2.0		<2.0		<2.0	
Magnesium-T (mg/l)	41		43		45	
Manganese-T (µg/l)	32		36		38	
Mercury-T (µg/l)	<0.20		<0.20		<0.20	
Nickel-T (µg/l)	2.7		2.9		2.7	
Potassium-T (mg/l)	2		3		3	
Selenium-T (µg/l)	<2.0		<2.0		<2.0	
Sodium-T (mg/l)	9		11		10	
Strontium-T (µg/l)	2970		3540		3950	
Zinc-T (µg/l)	<10		<10		<10	
Hardness (mg/l CaCO3)	449		447		460	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: **S. FK. GREAT MIAMI R. NW OF HUNTSVILLE @ CO. RD. 38** SWDO Map # 15

River Mile: 1.74 Storet ID: H01S10 WAU 05080001-01-02

Latitude/Longitude: 40.4744 /-83.8404 Drainage Area (mi2): 51 County: Logan Ecoregion: ECBP USGS Quad: Huntsville

Date Collected	6/25/2008	7/16/2008	7/30/2008	8/6/2008	8/20/2008	9/24/2008
Time	10:45	10:05	12:20	11:15	11:35	11:40
Temp (C)	18.67	20.37	21.61	21.82	19.52	17.70
D.O. (mg/l)	10.10	8.58	9.30	8.79	10.09	9.41
D.O. (% sat)	108.4	95.2	105.8	100.3	110.2	99.1
pH (fld) SU	8.17	8.10	8.18	8.19	8.17	8.04
Sp Cond (fld)(µmhos/cm)	813	749	815	814	815	847
Sp Cond (lab)(µmhos/cm)	789	721	809	811	797	870
BOD5 (mg/l)						
CBOD20 (mg/l)						
COD (mg/l)	<10	11	<10	<10	<10	<10
Ammonia-N (mg/l)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Nitrate-nitrite-N (mg/l)	1.08	1.62	0.42	0.63	0.2	0.2
Nitrite-N (mg/l)	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
TKN (mg/l)	<0.20	0.4	0.29	0.25	<0.20	0.26
Orthophosphate (mg/l)						
Phosphorus-T (mg/l)	0.016	0.052	0.014	0.02	0.015	0.019
TSS (mg/l)	<5	5	5	<5	6	<5
TDS (mg/l)	522	470	532	522	530	574
Chloride (mg/l)	18.2	17.2	17.5	18.8	17.3	17.4
Aluminum-T (µg/l)	<200		<200		<200	
Arsenic-T (µg/l)	<2.0		<2.0		<2.0	
Barium-T (µg/l)	73		77		78	
Cadmium-T (µg/l)	<0.20		<0.20		<0.20	
Calcium-T (mg/l)	106		108		101	
Chromium-T (µg/l)	<2.0		<2.0		<2.0	
Copper-T (µg/l)	<2.0		<2.0		<2.0	
Iron-T (µg/l)	210		194		417	
Lead-T (µg/l)	<2.0		<2.0		<2.0	
Magnesium-T (mg/l)	40		44		45	
Manganese-T (µg/l)	17		20		30	
Mercury-T (µg/l)	<0.20		<0.20		<0.20	
Nickel-T (µg/l)	2.5		3		2.8	
Potassium-T (mg/l)	2		3		3	
Selenium-T (µg/l)	<2.0		<2.0		<2.0	
Sodium-T (mg/l)	10		11		11	
Strontium-T (µg/l)	2990		3720		4280	
Zinc-T (µg/l)	<10		<10		<10	
Hardness (mg/l CaCO3)	429		451		438	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: TRIB. TO S. FK. GMR (7.24) AT BELLE CENTER @ ST. RT. 638 (AKA BELLE CENTER TRIB) SWDO Map # 16

River Mile: 0.55 Storet ID: H01S29 WAU 05080001-01-02

Latitude/Longitude: 40.5035 /-83.7435 Drainage Area (mi2): 7.4 County: Logan Ecoregion: ECBP USGS Quad: Siver Creek

Date Collected	6/25/2008	7/16/2008	7/30/2008	8/6/2008	8/20/2008	9/24/2008
Time	2:00	1:25	3:30	2:40	2:10	2:30
Temp (C)	18.50	19.91	22.07	22.56	21.13	20.39
D.O. (mg/l)	8.64	8.70	7.87	7.79	9.92	8.78
D.O. (% sat)	92.4	95.7	90.4	90.2	111.8	97.5
pH (fld) SU	7.80	7.75	7.88	7.88	7.97	7.82
Sp Cond (fld)(µmhos/cm)	879	803	897	858	862	868
Sp Cond (lab)(µmhos/cm)	852	784	879	846	844	885
BOD5 (mg/l)						
CBOD20 (mg/l)						
COD (mg/l)	<10	22	<10	11	<10	<10
Ammonia-N (mg/l)	<0.050	<0.050	0.07	0.067	<0.050	<0.050
Nitrate-nitrite-N (mg/l)	0.49	1.08	0.24	0.3	0.11	0.1
Nitrite-N (mg/l)	<0.020	0.031	<0.020	<0.020	<0.020	<0.020
TKN (mg/l)	0.26	0.23	0.27	0.3	0.26	0.37
Orthophosphate (mg/l)						
Phosphorus-T (mg/l)	0.021	0.015	0.029	0.037	0.032	0.039
TSS (mg/l)	<5	<5	5	<5	<5	<5
TDS (mg/l)	578	534	662	578	592	626
Chloride (mg/l)	12.8	12	11.9	12.7	12.2	11.7
Aluminum-T (µg/l)	<200		<200		<200	
Arsenic-T (µg/l)	<2.0		<2.0		<2.0	
Barium-T (µg/l)	82		86		80	
Cadmium-T (µg/l)	<0.20		<0.20		<0.20	
Calcium-T (mg/l)	133		137		123	
Chromium-T (µg/l)	<2.0		<2.0		<2.0	
Copper-T (µg/l)	<2.0		<2.0		<2.0	
Iron-T (µg/l)	337		408		466	
Lead-T (µg/l)	<2.0		<2.0		<2.0	
Magnesium-T (mg/l)	36		39		39	
Manganese-T (µg/l)	72		115		107	
Mercury-T (µg/l)	<0.20		<0.20		<0.20	
Nickel-T (µg/l)	2.8		3.6		2.9	
Potassium-T (mg/l)	2		2		2	
Selenium-T (µg/l)	<2.0		<2.0		<2.0	
Sodium-T (mg/l)	7		7		7	
Strontium-T (µg/l)	2930		3480		3660	
Zinc-T (µg/l)	<10		<10		<10	
Hardness (mg/l CaCO3)	480		503		468	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: **LIGGITT DITCH (AKA SLOW DITCH) NEAR BELLE CENTER @ TWP. RD. 49** SWDO Map # 17

River Mile: 0.53 Storet ID: H01S15 WAU 05080001-01-02

Latitude/Longitude: 40.5038 /-83.7677 Drainage Area (mi2): 6.5 County: Logan Ecoregion: ECBP USGS Quad: Roundhead

Date Collected	6/25/2008	7/16/2008	7/30/2008	8/6/2008	8/20/2008	9/24/2008
Time	1:20	12:45	3:00	1:35	1:40	1:50
Temp (C)	21.74	22.04	23.62	24.41	21.82	20.30
D.O. (mg/l)	13.02	10.70	16.18	14.56	13.13	11.80
D.O. (% sat)	148.5	122.7	191.3	174.7	150.0	130.9
pH (fld) SU	8.00	7.81	8.19	8.16	8.13	8.06
Sp Cond (fld)(µmhos/cm)	828	752	842	821	886	858
Sp Cond (lab)(µmhos/cm)	804	729	853	811	869	874
BOD5 (mg/l)						
CBOD20 (mg/l)						
COD (mg/l)	<10	12	<10	13	<10	<10
Ammonia-N (mg/l)	<0.050	0.08	<0.050	<0.050	<0.050	<0.050
Nitrate-nitrite-N (mg/l)	0.94	1.77	0.18	<0.10	<0.10	<0.10
Nitrite-N (mg/l)	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
TKN (mg/l)	0.25	0.58	0.6	0.22	<0.20	<0.20
Orthophosphate (mg/l)					<0.010	0.019
Phosphorus-T (mg/l)	0.022	0.046	0.04	0.016	0.01	0.015
TSS (mg/l)	<5	<5	<5	<5	<5	<5
TDS (mg/l)	528	452	588	544	626	576
Chloride (mg/l)	23.5	19.6	21.3	22.4	25.9	23.6
Aluminum-T (µg/l)	<200		<200		<200	
Arsenic-T (µg/l)	<2.0		<2.0		<2.0	
Barium-T (µg/l)	78		78		77	
Cadmium-T (µg/l)	<0.20		<0.20		<0.20	
Calcium-T (mg/l)	118		117		120	
Chromium-T (µg/l)	<2.0		<2.0		<2.0	
Copper-T (µg/l)	<2.0		<2.0		<2.0	
Iron-T (µg/l)	387		410		135	
Lead-T (µg/l)	<2.0		<2.0		<2.0	
Magnesium-T (mg/l)	35		38		39	
Manganese-T (µg/l)	60		20		<10	
Mercury-T (µg/l)	<0.20		<0.20		<0.20	
Nickel-T (µg/l)	4.2		3.2		2.7	
Potassium-T (mg/l)	2		2		2	
Selenium-T (µg/l)	<2.0		<2.0		<2.0	
Sodium-T (mg/l)	13		14		16	
Strontium-T (µg/l)	4610		5710		7700	
Zinc-T (µg/l)	<10		<10		<10	
Hardness (mg/l CaCO3)	439		449		460	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: **VAN HORN CREEK SE OF NEW HAMPSHIRE @ ST. RT. 366** SWDO Map # 20

River Mile: 0.97 Storet ID: H01P19 WAU 05080001-01-03

Latitude/Longitude: 40.5163 /-83.9268 Drainage Area (mi2): 3 County: Logan Ecoregion: ECBP USGS Quad: Waynesfield

Date Collected	6/26/2008	7/17/2008	7/31/2008	8/7/2008	8/21/2008	9/25/2008
Time	10:50	10:55	10:40	10:50	10:45	11:50
Temp (C)	19.38	21.66	20.41	19.96	17.38	16.87
D.O. (mg/l)	6.89	6.76	6.25	5.45	4.29	2.02
D.O. (% sat)	74.9	76.9	69.5	60.0	44.8	20.9
pH (fld) SU	7.17	7.78	7.70	7.73	7.57	7.64
Sp Cond (fld)(µmhos/cm)	240.7	636.9	795.4	801.5	791.9	844.8
Sp Cond (lab)(µmhos/cm)	245 RC	619	778	809	777	844
BOD5 (mg/l)						
CBOD20 (mg/l)						
COD (mg/l)	28	12	<10	14	11	<10
Ammonia-N (mg/l)	0.905	0.054	0.057	0.071	<0.050	<0.050
Nitrate-nitrite-N (mg/l)	7.49	2.31	<0.10	<0.10	<0.10	<0.10
Nitrite-N (mg/l)	0.13	0.023	<0.020	<0.020	<0.020	<0.020
TKN (mg/l)	1.91	0.65	0.33	0.36	0.49	0.26
Orthophosphate (mg/l)						
Phosphorus-T (mg/l)	0.394	0.078	0.054	0.044	0.044	0.037
TSS (mg/l)	59	13	8	12	11	8
TDS (mg/l)	262 RC	400	492	496	486	520
Chloride (mg/l)	8.9	26.6	37.9	41.2	35.6	33.8
Aluminum-T (µg/l)	5670		245		475	
Arsenic-T (µg/l)	2.7		3.3		3.3	
Barium-T (µg/l)	68		101		105	
Cadmium-T (µg/l)	<0.20		<0.20		<0.20	
Calcium-T (mg/l)	31		100		99	
Chromium-T (µg/l)	5.3		<2.0		<2.0	
Copper-T (µg/l)	9.6		<2.0		<2.0	
Iron-T (µg/l)	6530		634		1080	
Lead-T (µg/l)	5		<2.0		<2.0	
Magnesium-T (mg/l)	10		36		38	
Manganese-T (µg/l)	69		138		152	
Mercury-T (µg/l)	<0.20		<0.20		<0.20	
Nickel-T (µg/l)	10		4.1		3.8	
Potassium-T (mg/l)	5		3		3	
Selenium-T (µg/l)	<2.0		<2.0		<2.0	
Sodium-T (mg/l)	<5		17		15	
Strontium-T (µg/l)	160		1670		1700	
Zinc-T (µg/l)	33		<10		<10	
Hardness (mg/l CaCO3)	119		398		404	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: **MUCHINIPPI CREEK NEAR NEW HAMPSHIRE @ SR 196** SWDO Map # 26

River Mile: 12.98 Storet ID: H01K17 WAU 05080001-02-02

Latitude/Longitude: 40.5607 /-83.9525 Drainage Area (mi2): 6.8 County: Auglaize Ecoregion: ECBP USGS Quad: Waynesfield

Date Collected	6/26/2008	7/17/2008	7/31/2008	8/7/2008	8/21/2008	9/25/2008
Time	11:25	11:35	11:00	11:20	10:55	12:10
Temp (C)	19.57	25.38	24.37	24.91	15.43	16.50
D.O. (mg/l)	5.20	6.52	3.32	4.94	5.76	4.02
D.O. (% sat)	56.7	79.5	39.8	59.8	57.8	41.3
pH (fld) SU	7.13	7.76	7.75	7.88	7.44	7.47
Sp Cond (fld)(µmhos/cm)	455.6	665.7	657	698.5	950.1	915.3
Sp Cond (lab)(µmhos/cm)	419	642	559	714	922	933
BOD5 (mg/l)						
CBOD20 (mg/l)						
COD (mg/l)	16	25	16	16	11	11
Ammonia-N (mg/l)	0.85	0.133	0.341	0.402	0.109	<0.050
Nitrate-nitrite-N (mg/l)	10.4	1.95	0.35	0.35	0.72	0.55
Nitrite-N (mg/l)	0.339	0.044	0.023	0.028	0.026	<0.020
TKN (mg/l)	1.76	0.69	1.01	0.91	0.67	0.65
Orthophosphate (mg/l)						
Phosphorus-T (mg/l)	0.274	0.078	0.174	0.205	0.077	0.132
TSS (mg/l)	48	12	22	19	9	11
TDS (mg/l)	338	418	444	430	566	580
Chloride (mg/l)	13.7	31.8	40.8	38.8	84.5	87.4
Aluminum-T (µg/l)	2850		445		<200	
Arsenic-T (µg/l)	2		5.4		4.2	
Barium-T (µg/l)	84		81		90	
Cadmium-T (µg/l)	<0.20		<0.20		<0.20	
Calcium-T (mg/l)	60		76		94	
Chromium-T (µg/l)	3		<2.0		<2.0	
Copper-T (µg/l)	6.6		2.1		<2.0	
Iron-T (µg/l)	3350		738		328	
Lead-T (µg/l)	2.8		<2.0		<2.0	
Magnesium-T (mg/l)	18		32		36	
Manganese-T (µg/l)	41		119		84	
Mercury-T (µg/l)	<0.20		<0.20		<0.20	
Nickel-T (µg/l)	6.8		4.4		4.2	
Potassium-T (mg/l)	3		2		4	
Selenium-T (µg/l)	<2.0		<2.0		<2.0	
Sodium-T (mg/l)	5		23		44	
Strontium-T (µg/l)	918		2510		2250	
Zinc-T (µg/l)	19		<10		<10	
Hardness (mg/l CaCO3)	224		322		383	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: **MUCHINIPPI CREEK AT NEW HAMPSHIRE, UPST. U.S. RT. 33** SWDO Map # 21

River Mile: 12.50 Storet ID: 201083 WAU 05080001-02-02

Latitude/Longitude: 40.5578 /-83.9592 Drainage Area (mi2): 16 County: Auglaize Ecoregion: ECBP USGS Quad: Waynesfield

Date Collected	6/26/2008	7/17/2008	7/31/2008	8/7/2008	8/21/2008	9/25/2008
Time	11:10	11:25	11:15	11:30	11:05	12:20
Temp (C)	19.31	23.27	22.47	22.25	19.71	17.44
D.O. (mg/l)	5.70	7.53	4.95	4.42	2.89	5.22
D.O. (% sat)	61.9	88.4	57.2	50.9	31.7	54.7
pH (fld) SU	7.11	7.74	7.81	7.79	7.81	8.10
Sp Cond (fld)(µmhos/cm)	374	701.8	794.3	809.2	914.3	1055.5
Sp Cond (lab)(µmhos/cm)	385	673	782	807	855	990
BOD5 (mg/l)						
CBOD20 (mg/l)						
COD (mg/l)	22	12 J	15	18	32	20
Ammonia-N (mg/l)	0.792	0.149	<0.050	0.069	0.077	<0.050
Nitrate-nitrite-N (mg/l)	9.81	2.11	0.24	0.22	0.11	<0.10
Nitrite-N (mg/l)	0.196	0.072	<0.020	0.024	<0.020	<0.020
TKN (mg/l)	1.84	0.75	0.84	0.84	0.89	1.09
Orthophosphate (mg/l)						
Phosphorus-T (mg/l)	0.301	0.165	0.278	0.443	0.38	0.463
TSS (mg/l)	87	<5	6	7	12	31
TDS (mg/l)	322	430	498	470	578	622
Chloride (mg/l)	13.8	31.2	49.8	49.3	60.7	80.8
Aluminum-T (µg/l)	5870		<200		228	
Arsenic-T (µg/l)	2.6		4.9		5.5	
Barium-T (µg/l)	92		86		92	
Cadmium-T (µg/l)	<0.20		<0.20		<0.20	
Calcium-T (mg/l)	50		85		89	
Chromium-T (µg/l)	5.7		<2.0		<2.0	
Copper-T (µg/l)	9		<2.0		2	
Iron-T (µg/l)	7050		207		526	
Lead-T (µg/l)	5.2		<2.0		<2.0	
Magnesium-T (mg/l)	16		34		38	
Manganese-T (µg/l)	83		59		87	
Mercury-T (µg/l)	<0.20		<0.20		<0.20	
Nickel-T (µg/l)	9.3		6		6.9	
Potassium-T (mg/l)	4		4		5	
Selenium-T (µg/l)	<2.0		<2.0		<2.0	
Sodium-T (mg/l)	5		30		39	
Strontium-T (µg/l)	577		3230		4450	
Zinc-T (µg/l)	38		<10		<10	
Hardness (mg/l CaCO3)	191		352		379	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: **MUCHINIPPI CREEK NW OF LAKEVIEW @ CO. RD. 87** SWDO Map # 22

River Mile: 7.40 Storet ID: 201082 WAU 05080001-02-04

Latitude/Longitude: 40.4988 /-83.9792 Drainage Area (mi2): 36 County: Logan Ecoregion: ECBP USGS Quad: Russells Point

Date Collected	6/26/2008	7/17/2008	7/31/2008	8/7/2008	8/21/2008	9/25/2008
Time	12:20	12:30	12:35	12:20	12:05	1:10
Temp (C)	19.37	23.19	23.31	22.93	21.02	17.74
D.O. (mg/l)	5.44	7.23	5.12	4.72	5.82	4.10
D.O. (% sat)	59.1	84.7	60.1	55.1	65.4	43.2
pH (fld) SU	7.20	7.85	7.94	7.96	7.98	7.75
Sp Cond (fld)(µmhos/cm)	346.5	609.1	666.4	680.5	697.3	722.5
Sp Cond (lab)(µmhos/cm)	349	587	662	690	706	729
BOD5 (mg/l)						
CBOD20 (mg/l)						
COD (mg/l)	11	24	10	19	11	<10
Ammonia-N (mg/l)	0.514	<0.050	0.076	0.087	0.069	<0.050
Nitrate-nitrite-N (mg/l)	8.85	1.87	0.32	0.19	<0.10	<0.10
Nitrite-N (mg/l)	0.15	<0.020	<0.020	<0.020	<0.020	<0.020
TKN (mg/l)	1.27	0.57	0.53	0.45	0.5	0.33
Orthophosphate (mg/l)						
Phosphorus-T (mg/l)	0.324	0.091	0.058	0.091	0.077	0.103
TSS (mg/l)	148	9	12	8	22	7
TDS (mg/l)	306	398	460	414	436	446
Chloride (mg/l)	8.8	17.8	25.4	28.9	30	33.8
Aluminum-T (µg/l)	6510		306		512	
Arsenic-T (µg/l)	2.6		2.3		3.1	
Barium-T (µg/l)	90		80		86	
Cadmium-T (µg/l)	0.2		<0.20		<0.20	
Calcium-T (mg/l)	46		82		82	
Chromium-T (µg/l)	6.4		<2.0		<2.0	
Copper-T (µg/l)	8.9		<2.0		<2.0	
Iron-T (µg/l)	8240		542		905	
Lead-T (µg/l)	5.7		<2.0		<2.0	
Magnesium-T (mg/l)	14		30		33	
Manganese-T (µg/l)	106		69		131	
Mercury-T (µg/l)	<0.20		<0.20		<0.20	
Nickel-T (µg/l)	10.6		4.6		4.4	
Potassium-T (mg/l)	4		3		3	
Selenium-T (µg/l)	<2.0		<2.0		<2.0	
Sodium-T (mg/l)	<5		13		16	
Strontium-T (µg/l)	457		1580		2330	
Zinc-T (µg/l)	38		<10		<10	
Hardness (mg/l CaCO3)	173		328		341	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: **MUCHINIPPI CREEK NEAR RUSSELLS POINT @ MYERS RD.** SWDO Map # 23

River Mile: 4.76 Storet ID: H01P05 WAU 05080001-02-04

Latitude/Longitude: 40.4683 /-83.9572 Drainage Area (mi2): 77 County: Logan Ecoregion: ECBP USGS Quad: Russells Point

Date Collected	6/26/2008	7/17/2008	7/31/2008	8/7/2008	8/21/2008	9/25/2008
Time	12:50	1:00	1:15	1:00	12:40	1:35
Temp (C)	19.69	24.28	24.17	22.46	21.17	17.43
D.O. (mg/l)	5.20	6.59	6.38	6.00	7.76	3.71
D.O. (% sat)	56.9	78.8	76.2	69.3	87.5	38.8
pH (fld) SU	7.25	7.99	8.11	8.06	8.25	7.86
Sp Cond (fld)(µmhos/cm)	233.2	610.6	695.9	647.1	699.3	742.8
Sp Cond (lab)(µmhos/cm)	240 RC	590	676	666	698	747
BOD5 (mg/l)						
CBOD20 (mg/l)						
COD (mg/l)	19	22	<10	17	14	14
Ammonia-N (mg/l)	0.489	0.056	0.058	0.08	0.057	<0.050
Nitrate-nitrite-N (mg/l)	6.68	2.14	0.44	0.54	<0.10	<0.10
Nitrite-N (mg/l)	0.076	<0.020	<0.020	<0.020	<0.020	<0.020
TKN (mg/l)	1.46	0.48	0.42	0.4	0.61	0.56
Orthophosphate (mg/l)						
Phosphorus-T (mg/l)	0.4	0.077	0.074	0.103	0.101	0.175
TSS (mg/l)	230	19	6	6	5	11
TDS (mg/l)	266 RC	406	476	394	430	448
Chloride (mg/l)	6.6	18.8	32.2	35.3	40.6	46.5
Aluminum-T (µg/l)	9800		<200		244	
Arsenic-T (µg/l)	3		2.3		3.2	
Barium-T (µg/l)	106		80		78	
Cadmium-T (µg/l)	0.26		<0.20		<0.20	
Calcium-T (mg/l)	32		83		75	
Chromium-T (µg/l)	8.7		<2.0		<2.0	
Copper-T (µg/l)	10.8		<2.0		2	
Iron-T (µg/l)	12600		231		401	
Lead-T (µg/l)	8.9		<2.0		<2.0	
Magnesium-T (mg/l)	12		32		34	
Manganese-T (µg/l)	152		51		61	
Mercury-T (µg/l)	<0.20		<0.20		<0.20	
Nickel-T (µg/l)	13.8		3.9		4	
Potassium-T (mg/l)	5		3		3	
Selenium-T (µg/l)	<2.0		<2.0		<2.0	
Sodium-T (mg/l)	<5		17		23	
Strontium-T (µg/l)	351		2070		2610	
Zinc-T (µg/l)	60		<10		<10	
Hardness (mg/l CaCO3)	129		339		327	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: **MUCHINIPPI CREEK N OF BLOOM CENTER @ ST. RT. 274** SWDO Map # 24

River Mile: 2.37 Storet ID: H01P07 WAU 05080001-02-04

Latitude/Longitude: 40.4392 /-83.9408 Drainage Area (mi2): 85 County: Logan Ecoregion: ECBP USGS Quad: Russells Point

Date Collected	6/26/2008	7/17/2008	7/31/2008	8/7/2008	8/21/2008	9/25/2008
Time	1:05	1:15	2:00	1:30	12:55	1:45
Temp (C)	19.75	24.73	23.38	22.34	19.66	18.69
D.O. (mg/l)	5.23	6.03	4.47	4.25	4.05	3.10
D.O. (% sat)	57.2	72.7	52.6	49.0	44.4	33.3
pH (fld) SU	7.27	7.92	8.01	7.88	7.86	7.83
Sp Cond (fld)(µmhos/cm)	223.1	603.9	683.4	614.6	716.6	717.8
Sp Cond (lab)(µmhos/cm)	205 RC	584	673	608	709	732
BOD5 (mg/l)						
CBOD20 (mg/l)						
COD (mg/l)	16	22	<10	31	14	14
Ammonia-N (mg/l)	0.449	0.067	0.082	0.094	0.113	0.061
Nitrate-nitrite-N (mg/l)	6.21	2.1	0.4	0.54	<0.10	<0.10
Nitrite-N (mg/l)	0.07	<0.020	<0.020	<0.020	<0.020	<0.020
TKN (mg/l)	1.26	0.53	0.57	0.49	0.53	0.79
Orthophosphate (mg/l)						
Phosphorus-T (mg/l)	0.375	0.11	0.114	0.133	0.102	0.194
TSS (mg/l)	228	41	28	46	6	11
TDS (mg/l)	252 RC	400	462	370	448	432
Chloride (mg/l)	6.3	18.1	31.4	34	42.5	42.3
Aluminum-T (µg/l)	10200		864		234	
Arsenic-T (µg/l)	3.1		2.5		3.2	
Barium-T (µg/l)	102		85		80	
Cadmium-T (µg/l)	0.24		<0.20		<0.20	
Calcium-T (mg/l)	28		81		73	
Chromium-T (µg/l)	9.1		<2.0		<2.0	
Copper-T (µg/l)	10.4		3.9		<2.0	
Iron-T (µg/l)	13300		1260		399	
Lead-T (µg/l)	8.8		<2.0		<2.0	
Magnesium-T (mg/l)	10		32		34	
Manganese-T (µg/l)	151		107		101	
Mercury-T (µg/l)	<0.20		<0.20		<0.20	
Nickel-T (µg/l)	13.9		4.4		3.8	
Potassium-T (mg/l)	5		3		3	
Selenium-T (µg/l)	<2.0		<2.0		<2.0	
Sodium-T (mg/l)	<5		17		23	
Strontium-T (µg/l)	333		2040		2690	
Zinc-T (µg/l)	57		<10		<10	
Hardness (mg/l CaCO3)	111		334		322	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: **MUCHINIPPI CREEK E OF BLOOM CENTER @ CO. RD. 60** SWDO Map # 25

River Mile: 0.32 Storet ID: H01P08 WAU 05080001-02-04

Latitude/Longitude: 40.4172 /-83.9253 Drainage Area (mi2): 88 County: Logan Ecoregion: ECBP USGS Quad: Russells Point

Date Collected	6/26/2008	7/17/2008	7/31/2008	8/7/2008	8/21/2008	9/25/2008
Time	10:10	12:50	1:05	1:00	12:35	12:40
Temp (C)	19.36	23.57	23.70	23.39	20.45	17.50
D.O. (mg/l)	5.87	5.32	3.43	3.76	5.18	2.28
D.O. (% sat)	63.8	62.9	40.6	44.2	57.6	23.8
pH (fld) SU	7.43	7.66	7.84	7.77	7.71	7.21
Sp Cond (fld)(µmhos/cm)	157.4	607.4	690	698	736.5	677.2
Sp Cond (lab)(µmhos/cm)	166 RC	576	667	668	706	727
BOD5 (mg/l)		<2.0	<2.0	<2.0	<2.0	<2.0
CBOD20 (mg/l)		3	4.5	3.4	<3.0	4.2
COD (mg/l)	22	19	12	16 J	20	17
Ammonia-N (mg/l)	0.357	0.07	0.105	0.119	0.113	0.052
Nitrate-nitrite-N (mg/l)	4.6	2.15	0.3	0.76	0.14	<0.10
Nitrite-N (mg/l)	0.068	0.021	<0.020	<0.020	<0.020	<0.020
TKN (mg/l)	1.34	1.09	0.61	0.45	0.73	0.69
Orthophosphate (mg/l)	0.178	0.058	0.104	0.113	0.128	0.167
Phosphorus-T (mg/l)	0.504	0.088	0.141	0.137	0.157	0.258
TSS (mg/l)	440	31	15	17	16	19
TDS (mg/l)	194 RC	392	454	416	458	432
Chloride (mg/l)	5.3	17.5	30.1	42.4	41.3	46.2
Aluminum-T (µg/l)	12000		477		260	
Arsenic-T (µg/l)	3.3		3.1		4	
Barium-T (µg/l)	119		80		79	
Cadmium-T (µg/l)	0.28		<0.20		<0.20	
Calcium-T (mg/l)	22		82		77	
Chromium-T (µg/l)	11.8		<2.0		<2.0	
Copper-T (µg/l)	12.9		2.8		<2.0	
Iron-T (µg/l)	14500		829		522	
Lead-T (µg/l)	11.1		<2.0		<2.0	
Magnesium-T (mg/l)	9		31		33	
Manganese-T (µg/l)	186		156		246	
Mercury-T (µg/l)	<0.20		<0.20		<0.20	
Nickel-T (µg/l)	17.7		4.7		3.8	
Potassium-T (mg/l)	5		3		3	
Selenium-T (µg/l)	<2.0		<2.0		<2.0	
Sodium-T (mg/l)	<5		16		23	
Strontium-T (µg/l)	309		2050		2670	
Zinc-T (µg/l)	68		10		<10	
Hardness (mg/l CaCO3)	92		332		328	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: **WILLOW CREEK SE OF ST. JOHNS, DST WRESTLE CREEK RD, DST TRIB** SWDO Map # 31

River Mile: 3.70 Storet ID: H01K16 WAU 05080001-02-01

Latitude/Longitude: 40.5414 /-84.0302 Drainage Area (mi2): 8.1 County: Auglaize Ecoregion: ECBP USGS Quad: Uniopolis

Date Collected	6/26/2008	7/17/2008	7/31/2008	8/7/2008	8/21/2008	9/25/2008
Time	11:50	11:55	11:55	11:45	11:30	12:35
Temp (C)	19.59	24.04	22.77	21.95	19.70	18.23
D.O. (mg/l)	4.01	6.77	9.35	9.92	9.58	8.57
D.O. (% sat)	43.8	80.6	108.7	113.5	104.9	91.1
pH (fld) SU	7.30	7.66	7.93	7.99	7.96	7.90
Sp Cond (fld)(µmhos/cm)	420.6	512.6	695.7	625	653.4	656.8
Sp Cond (lab)(µmhos/cm)	416	495	684	637	656	666
BOD5 (mg/l)						
CBOD20 (mg/l)						
COD (mg/l)	16	15	<10	23	11	<10
Ammonia-N (mg/l)	0.144	0.053	0.059	0.063	<0.050	<0.050
Nitrate-nitrite-N (mg/l)	7.06	0.74	0.35	0.25	0.14	<0.10
Nitrite-N (mg/l)	0.1	<0.020	<0.020	<0.020	<0.020	<0.020
TKN (mg/l)	1.14	0.38	0.45	<0.20	0.59	<0.20
Orthophosphate (mg/l)					<0.010	<0.010
Phosphorus-T (mg/l)	0.205	0.039	0.023	0.016	0.025	<0.010
TSS (mg/l)	43	26	7	6	5	6
TDS (mg/l)	334	354	492	388	416	418
Chloride (mg/l)	12.4	12.2	24.5	15.9	17.5	13.1
Aluminum-T (µg/l)	3920		<200		<200	
Arsenic-T (µg/l)	2.1		<2.0		<2.0	
Barium-T (µg/l)	78		75		74	
Cadmium-T (µg/l)	<0.20		<0.20		<0.20	
Calcium-T (mg/l)	59		96		89	
Chromium-T (µg/l)	3.7		<2.0		<2.0	
Copper-T (µg/l)	6.2		<2.0		<2.0	
Iron-T (µg/l)	4910		350		391	
Lead-T (µg/l)	3.2		<2.0		<2.0	
Magnesium-T (mg/l)	16		28		27	
Manganese-T (µg/l)	60		99		156	
Mercury-T (µg/l)	<0.20		<0.20		<0.20	
Nickel-T (µg/l)	8.1		3.5		3.1	
Potassium-T (mg/l)	4		3		3	
Selenium-T (µg/l)	<2.0		<2.0		<2.0	
Sodium-T (mg/l)	5		10		6	
Strontium-T (µg/l)	738		1120		1100	
Zinc-T (µg/l)	26		<10		<10	
Hardness (mg/l CaCO3)	213		355		333	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: WILLOW CREEK N OF SANTA FE @ IDLE RD. SWDO Map # 32

River Mile: 0.44 Storet ID: H01K15 WAU 05080001-02-01

Latitude/Longitude: 40.5134 /-83.9902 Drainage Area (mi2): 15.1 County: Logan Ecoregion: ECBP USGS Quad: Waynesfield

Date Collected	6/26/2008	7/17/2008	7/31/2008	8/7/2008	8/21/2008	9/25/2008
Time	12:05	12:20	12:20	12:10	11:55	1:00
Temp (C)	19.35	23.57	25.56	24.75	21.85	17.85
D.O. (mg/l)	4.01	9.06	9.29	11.40	11.15	8.21
D.O. (% sat)	43.6	106.9	113.7	137.6	127.4	86.6
pH (fld) SU	7.10	7.87	8.14	8.26	8.23	8.00
Sp Cond (fld)(µmhos/cm)	380.3	574.8	663.7	649.7	570.2	638.2
Sp Cond (lab)(µmhos/cm)	379	558	657	662	634	648
BOD5 (mg/l)						
CBOD20 (mg/l)						
COD (mg/l)	<10	28	<10	16	11	<10
Ammonia-N (mg/l)	0.269	<0.050	<0.050	0.051	<0.050	<0.050
Nitrate-nitrite-N (mg/l)	7.3	1.45	0.38	0.19	<0.10	<0.10
Nitrite-N (mg/l)	0.084	<0.020	0.02	<0.020	<0.020	<0.020
TKN (mg/l)	1.35	0.34	0.46	0.27	0.38	0.33
Orthophosphate (mg/l)						
Phosphorus-T (mg/l)	0.237	0.042	0.034	0.03	0.028	0.031
TSS (mg/l)	111	16	6	<5	<5	<5
TDS (mg/l)	298	398	470	398	426	398
Chloride (mg/l)	7.8	13.4	18	19.8	17.5	18.5
Aluminum-T (µg/l)	6100		<200		<200	
Arsenic-T (µg/l)	2.4		<2.0		2.4	
Barium-T (µg/l)	92		80		73	
Cadmium-T (µg/l)	<0.20		<0.20		<0.20	
Calcium-T (mg/l)	55		89		85	
Chromium-T (µg/l)	5.2		<2.0		<2.0	
Copper-T (µg/l)	7		<2.0		<2.0	
Iron-T (µg/l)	7680		290		183	
Lead-T (µg/l)	5.1		<2.0		<2.0	
Magnesium-T (mg/l)	16		29		31	
Manganese-T (µg/l)	96		30		66	
Mercury-T (µg/l)	<0.20		<0.20		<0.20	
Nickel-T (µg/l)	9.2		3.7		2.7	
Potassium-T (mg/l)	4		2		2	
Selenium-T (µg/l)	<2.0		<2.0		<2.0	
Sodium-T (mg/l)	<5		7		6	
Strontium-T (µg/l)	431		913		1090	
Zinc-T (µg/l)	35		<10		<10	
Hardness (mg/l CaCO3)	203		342		340	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: **LITTLE MUCHINIPPI CREEK NW OF JACKSON CENTER @ WONES RD.** SWDO Map # 27

River Mile: 6.05 Storet ID: H01K13 WAU 05080001-02-03

Latitude/Longitude: 40.4679 /-84.0689 Drainage Area (mi2): 9.3 County: Shelby Ecoregion: ECBP USGS Quad: Jackson Center

Date Collected	6/26/2008	7/17/2008	7/31/2008	8/7/2008	8/21/2008	9/25/2008
Time	12:20	11:50	12:05	12:35	1:25	12:10
Temp (C)	20.47	21.98	23.98	23.39	23.58	16.09
D.O. (mg/l)	7.25	8.32	13.42	14.03	9.40	8.92
D.O. (% sat)	80.6	95.3	159.6	165.1	110.9	90.7
pH (fld) SU	7.13	7.89	8.42	8.44	8.18	8.62
Sp Cond (fld)(µmhos/cm)	325	616	754	714	620	654
Sp Cond (lab)(µmhos/cm)	322	609	744	707	609	682
BOD5 (mg/l)						
CBOD20 (mg/l)						
COD (mg/l)	16	34	11	25	14	26
Ammonia-N (mg/l)	0.873	0.057	<0.050	0.054	0.064	<0.050
Nitrate-nitrite-N (mg/l)	9.86	3.16	0.48	0.36	<0.10	<0.10
Nitrite-N (mg/l)	0.102	0.041	<0.020	<0.020	<0.020	<0.020
TKN (mg/l)	2.25	0.71	0.57	0.42	0.51	1.14
Orthophosphate (mg/l)					0.016	0.108
Phosphorus-T (mg/l)	0.322	0.072	0.113	0.111	0.117	0.184
TSS (mg/l)	32	8	6	<5	21	12
TDS (mg/l)	282	416	474	428	368	418
Chloride (mg/l)	7.7	23.1	53.5	50.8	47.8	55.3
Aluminum-T (µg/l)	5000		<200		318	
Arsenic-T (µg/l)	2		3.5		5.4	
Barium-T (µg/l)	79		72		65	
Cadmium-T (µg/l)	<0.20		<0.20		<0.20	
Calcium-T (mg/l)	43		87		50	
Chromium-T (µg/l)	4.4		<2.0		<2.0	
Copper-T (µg/l)	7.3		2.5		2.5	
Iron-T (µg/l)	6020		224		562	
Lead-T (µg/l)	3.8		<2.0		<2.0	
Magnesium-T (mg/l)	15		34		34	
Manganese-T (µg/l)	67		23		285	
Mercury-T (µg/l)	<0.20		<0.20		<0.20	
Nickel-T (µg/l)	7.9		4.2		3	
Potassium-T (mg/l)	5		3		2	
Selenium-T (µg/l)	<2.0		<2.0		<2.0	
Sodium-T (mg/l)	<5		29		23	
Strontium-T (µg/l)	385		1670		1990	
Zinc-T (µg/l)	28		<10		<10	
Hardness (mg/l CaCO3)	169		357		265	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: **LITTLE MUCHINIPPI CREEK @ GRAVEL ROAD NEAR MOUTH** SWDO Map # 28

River Mile: 0.62 Storet ID: H01K12 WAU 05080001-02-03

Latitude/Longitude: 40.4842 /-83.9851 Drainage Area (mi2): 35.2 County: Logan Ecoregion: ECBP USGS Quad: Russells Point

Date Collected	6/26/2008	7/17/2008	7/31/2008	8/7/2008	8/21/2008	9/25/2008
Time	12:35	12:40	12:50	12:35	12:20	1:20
Temp (C)	20.30	23.67	26.49	25.12	22.60	22.41
D.O. (mg/l)	4.94	5.51	6.58	5.93	8.71	12.27
D.O. (% sat)	54.7	65.1	82.0	72.0	101.0	141.7
pH (fld) SU	6.95	7.70	7.94	7.89	8.06	8.35
Sp Cond (fld)(µmhos/cm)	189.3	635.4	701.7	654.9	716.4	813.3
Sp Cond (lab)(µmhos/cm)	201 RC	615	711	666	708	816
BOD5 (mg/l)						
CBOD20 (mg/l)						
COD (mg/l)	13	12 J	12	35	14	11
Ammonia-N (mg/l)	0.483	0.138	0.142	0.161	0.09	<0.050
Nitrate-nitrite-N (mg/l)	6.02	2.53	0.99	0.93	0.23	<0.10
Nitrite-N (mg/l)	0.05	0.037	0.038	0.052	<0.020	<0.020
TKN (mg/l)	1.96	0.65	0.8	0.75	0.67	0.89
Orthophosphate (mg/l)						
Phosphorus-T (mg/l)	0.431	0.119	0.121	0.148	0.13	0.208
TSS (mg/l)	262	24	13	<5	<5	<5
TDS (mg/l)	254 RC	402	462	386	422	470
Chloride (mg/l)	6.3	22.9	47.5	46.5	62.8	82.7
Aluminum-T (µg/l)	11300		296		<200	
Arsenic-T (µg/l)	3.2		2.8		3.6	
Barium-T (µg/l)	111		76		71	
Cadmium-T (µg/l)	0.27		<0.20		<0.20	
Calcium-T (mg/l)	25		71		55	
Chromium-T (µg/l)	10.3		<2.0		<2.0	
Copper-T (µg/l)	11.7		2.6		2.6	
Iron-T (µg/l)	14400		379		382	
Lead-T (µg/l)	9.8		<2.0		<2.0	
Magnesium-T (mg/l)	10		32		34	
Manganese-T (µg/l)	161		85		95	
Mercury-T (µg/l)	<0.20		<0.20		<0.20	
Nickel-T (µg/l)	15.2		3.8		3.4	
Potassium-T (mg/l)	5		3		3	
Selenium-T (µg/l)	<2.0		<2.0		<2.0	
Sodium-T (mg/l)	<5		25		38	
Strontium-T (µg/l)	279		2440		3140	
Zinc-T (µg/l)	62		<10		<10	
Hardness (mg/l CaCO3)	104		309		277	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: **JACKSON CENTER CREEK AT JACKSON CENTER, UPST. ST. RT. 274** SWDO Map # 29

River Mile: 2.90 Storet ID: H01K14 WAU 05080001-02-03

Latitude/Longitude: 40.4396 /-84.052 Drainage Area (mi2): 1.1 County: Shelby Ecoregion: ECBP USGS Quad: Jackson Center

Date Collected	6/26/2008	7/17/2008	7/31/2008	8/7/2008	8/21/2008	9/25/2008
Time	1:30	1:15	12:45	1:20	2:05	1:00
Temp (C)	21.56	24.56	23.26	22.33	21.81	20.21
D.O. (mg/l)	8.57	11.28	10.07	11.35	11.75	4.00
D.O. (% sat)	97.2	135.6	118.3	130.9	134.4	44.3
pH (fld) SU	7.21	7.97	7.86	7.90	7.77	7.51
Sp Cond (fld)(µmhos/cm)	344	675	901	819	1375	1151
Sp Cond (lab)(µmhos/cm)	338	662	883	820	1320	1170
BOD5 (mg/l)						
CBOD20 (mg/l)						
COD (mg/l)	16	15	12	19	<10	17
Ammonia-N (mg/l)	0.082	<0.050	0.055	0.06	<0.050	0.072
Nitrate-nitrite-N (mg/l)	8.85	2.07	0.19	0.25	<0.10	0.18
Nitrite-N (mg/l)	0.028	0.046	<0.020	<0.020	<0.020	<0.020
TKN (mg/l)	0.7	0.49	0.68	1.07	0.52	1.06
Orthophosphate (mg/l)	0.148	0.023	0.03	0.051	0.014	0.221
Phosphorus-T (mg/l)	0.217	0.049	0.061	0.117	0.029	0.369
TSS (mg/l)	33	6	16	12	<5	10
TDS (mg/l)	276	414	552	512	784	678
Chloride (mg/l)	11.1	42.9	82.1	76.2	205	135
Aluminum-T (µg/l)	3510		380		<200	
Arsenic-T (µg/l)	<2.0		3.8		<2.0	
Barium-T (µg/l)	62		113		151	
Cadmium-T (µg/l)	<0.20		<0.20		<0.20	
Calcium-T (mg/l)	43		94		114	
Chromium-T (µg/l)	3.2		<2.0		<2.0	
Copper-T (µg/l)	5.3		2.4		2.7	
Iron-T (µg/l)	4310		647		386	
Lead-T (µg/l)	2.8		<2.0		<2.0	
Magnesium-T (mg/l)	15		42		50	
Manganese-T (µg/l)	36		145		145	
Mercury-T (µg/l)	<0.20		<0.20		<0.20	
Nickel-T (µg/l)	6		5		4.3	
Potassium-T (mg/l)	3		4		3	
Selenium-T (µg/l)	<2.0		<2.0		<2.0	
Sodium-T (mg/l)	<5		38		92	
Strontium-T (µg/l)	188		2200		2560	
Zinc-T (µg/l)	17		13		<10	
Hardness (mg/l CaCO3)	169		408		491	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: JACKSON CENTER CREEK DST. JACKSON CENTER WWTP @ LOCK TWO RD. SWDO Map # 30

River Mile: 1.80 Storet ID: H01P10 WAU 05080001-02-03

Latitude/Longitude: 40.454 /-84.0449 Drainage Area (mi2): 3 County: Shelby Ecoregion: ECBP USGS Quad: Jackson Center

Date Collected	6/26/2008	7/17/2008	7/31/2008	8/7/2008	8/21/2008	9/25/2008
Time	12:45	12:05	12:25	1:00	1:40	12:35
Temp (C)	21.27	25.41	29.15	26.95	25.47	23.77
D.O. (mg/l)	6.97	12.51	17.64	18.50	19.31	19.65
D.O. (% sat)	78.6	152.9	230.6	232.6	236.5	233.2
pH (fld) SU	7.26	8.25	8.82	8.89	8.96	8.76
Sp Cond (fld)(µmhos/cm)	330	812	1052	986	1166	1197
Sp Cond (lab)(µmhos/cm)	328	799	1030	1010	1150	1230
BOD5 (mg/l)						
CBOD20 (mg/l)						
COD (mg/l)	22	12	10	28	14 J	<10
Ammonia-N (mg/l)	0.288	0.069	0.05	0.061	0.107	<0.050
Nitrate-nitrite-N (mg/l)	7.86	6.72	11.2	11	13	20
Nitrite-N (mg/l)	0.051	0.046	0.066	0.079	0.214	0.061
TKN (mg/l)	1.48	0.65	1.05	0.89	0.96	1.34
Orthophosphate (mg/l)	0.258	0.57	1.07	1.3	1.38	1.96
Phosphorus-T (mg/l)	0.433	0.59	0.986	1.12	1.29	1.95
TSS (mg/l)	60	<5	6	8	<5	<5
TDS (mg/l)	270	520	656	606	722	724
Chloride (mg/l)	16.2	67.9	118	111	151	149
Aluminum-T (µg/l)	4740		242	<200	<200	
Arsenic-T (µg/l)	2.3		2.7	2.8	2.7	
Barium-T (µg/l)	77		133	130	136	
Cadmium-T (µg/l)	<0.20		<0.20	<0.20	<0.20	
Calcium-T (mg/l)	39		94	91	87	
Chromium-T (µg/l)	4.3		<2.0	<2.0	<2.0	
Copper-T (µg/l)	7.2		10.4	12.7	12.1	
Iron-T (µg/l)	6070		365	303	117	
Lead-T (µg/l)	4		<2.0	<2.0	<2.0	
Magnesium-T (mg/l)	13		37	35	37	
Manganese-T (µg/l)	67		23	14	<10	
Mercury-T (µg/l)	<0.20		<0.20		<0.20	
Nickel-T (µg/l)	7.6		3.8	3.3	3	
Potassium-T (mg/l)	4		6	7	8	
Selenium-T (µg/l)	<2.0		<2.0	<2.0	<2.0	
Sodium-T (mg/l)	8		77	76	101	
Strontium-T (µg/l)	403		2360	2340	2770	
Zinc-T (µg/l)	29		13	11	<10	
Hardness (mg/l CaCO3)	151		387	371	370	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: **CHEROKEE MANS RUN S OF HUNTSVILLE @ ST. RT. 117** SWDO Map # 46

River Mile: 7.56 Storet ID: H01K11 WAU 05080001-03-01

Latitude/Longitude: 40.4143 /-83.8011 Drainage Area (mi2): 8.5 County: Logan Ecoregion: ECBP USGS Quad: Huntsville

Date Collected	6/25/2008	7/16/2008	7/30/2008	8/6/2008	8/20/2008	9/24/2008
Time	9:45	9:25	10:30	10:25	10:55	10:45
Temp (C)	14.92	16.75	16.65	17.34	15.36	14.55
D.O. (mg/l)	8.95	8.83	9.20	8.98	9.45	8.69
D.O. (% sat)	88.7	91.1	94.7	93.7	94.7	85.5
pH (fld) SU	7.91	7.97	8.04	7.96	8.01	7.96
Sp Cond (fld)(µmhos/cm)	667	648	680	651	669	667
Sp Cond (lab)(µmhos/cm)	650	629	670	657	675	691
BOD5 (mg/l)						<2.0
CBOD20 (mg/l)						<3.0
COD (mg/l)	<10	12	<10	<10	12	<10
Ammonia-N (mg/l)	<0.050	0.079	<0.050	<0.050	<0.050	<0.050
Nitrate-nitrite-N (mg/l)	1.4	1.6	1.52	1.43	1.76	1.48
Nitrite-N (mg/l)	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
TKN (mg/l)	<0.20	<0.20	0.27	<0.20	0.22	<0.20
Orthophosphate (mg/l)					<0.010	<0.010
Phosphorus-T (mg/l)	0.018	0.021	0.013	0.01	<0.010	<0.010
TSS (mg/l)	<5	<5	<5	<5	<5	<5
TDS (mg/l)	394	386	400	398	406	414
Chloride (mg/l)	18.7	18.1	18	17.8	17.5	17.6
Aluminum-T (µg/l)	<200		<200		<200	
Arsenic-T (µg/l)	<2.0		<2.0		<2.0	
Barium-T (µg/l)	107		104		115	
Cadmium-T (µg/l)	<0.20		<0.20		<0.20	
Calcium-T (mg/l)	82		75		82	
Chromium-T (µg/l)	<2.0		<2.0		<2.0	
Copper-T (µg/l)	<2.0		<2.0		<2.0	
Iron-T (µg/l)	226		95		121	
Lead-T (µg/l)	<2.0		<2.0		<2.0	
Magnesium-T (mg/l)	35		33		36	
Manganese-T (µg/l)	21		14		13	
Mercury-T (µg/l)	<0.20		<0.20		<0.20	
Nickel-T (µg/l)	<2.0		2		<2.0	
Potassium-T (mg/l)	2		2		2	
Selenium-T (µg/l)	<2.0		<2.0		<2.0	
Sodium-T (mg/l)	9		9		9	
Strontium-T (µg/l)	1740		1810		2120	
Zinc-T (µg/l)	<10		<10		<10	
Hardness (mg/l CaCO3)	349		323		353	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: **CHEROKEE MANS RUN NW OF HUNTSVILLE @ U.S. RT. 33** SWDO Map # 47

River Mile: 3.38 Storet ID: H99Q04 WAU 05080001-03-01

Latitude/Longitude: 40.4513 /-83.8352 Drainage Area (mi2): 14.6 County: Logan Ecoregion: ECBP USGS Quad: Huntsville

Date Collected	6/25/2008	7/16/2008	7/30/2008	8/6/2008	8/20/2008	9/24/2008
Time	10:10	9:45	11:45	10:50	11:15	11:10
Temp (C)	16.84	18.43	19.79	19.86	17.83	16.60
D.O. (mg/l)	9.30	8.59	8.72	8.58	9.39	9.07
D.O. (% sat)	96.1	91.7	95.7	94.3	99.1	93.2
pH (fld) SU	7.90	8.11	8.15	8.10	8.22	7.85
Sp Cond (fld)(µmhos/cm)	724	703	728	695	717	722
Sp Cond (lab)(µmhos/cm)	707	682	695	697	708	739
BOD5 (mg/l)						
CBOD20 (mg/l)						
COD (mg/l)	<10	15	<10	13	<10	<10
Ammonia-N (mg/l)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Nitrate-nitrite-N (mg/l)	1.12	1.37	0.81	0.79	0.6	0.54
Nitrite-N (mg/l)	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
TKN (mg/l)	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Orthophosphate (mg/l)						
Phosphorus-T (mg/l)	0.041	0.024	0.016	0.016	<0.010	0.014
TSS (mg/l)	21	11	7	5	5	8
TDS (mg/l)	436	420	434	428	438	452
Chloride (mg/l)	25.9	24.4	25.4	25.7	25.6	25.2
Aluminum-T (µg/l)	392		<200		<200	
Arsenic-T (µg/l)	<2.0		<2.0		<2.0	
Barium-T (µg/l)	105		110		109	
Cadmium-T (µg/l)	<0.20		<0.20		<0.20	
Calcium-T (mg/l)	96		95		91	
Chromium-T (µg/l)	<2.0		<2.0		<2.0	
Copper-T (µg/l)	<2.0		<2.0		<2.0	
Iron-T (µg/l)	888		415		417	
Lead-T (µg/l)	<2.0		<2.0		<2.0	
Magnesium-T (mg/l)	36		38		39	
Manganese-T (µg/l)	37		28		26	
Mercury-T (µg/l)	<0.20		<0.20		<0.20	
Nickel-T (µg/l)	2.7		2.5		2.4	
Potassium-T (mg/l)	2		2		2	
Selenium-T (µg/l)	<2.0		<2.0		<2.0	
Sodium-T (mg/l)	12		13		13	
Strontium-T (µg/l)	1750		2090		2250	
Zinc-T (µg/l)	<10		<10		<10	
Hardness (mg/l CaCO3)	388		394		388	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: **TRIB. TO GREAT MIAMI R. (157.34) NEAR RUSSELLS POINT** SWDO Map # 33

River Mile: 0.07 Storet ID: H01W16 WAU 05080001-03-02

Latitude/Longitude: 40.454 /-83.9067 Drainage Area (mi2): 7.6 County: Logan Ecoregion: ECBP USGS Quad: Russells Point

Date Collected	7/17/2008	7/31/2008	8/7/2008	8/21/2008	9/25/2008
Time	11:00	11:40	11:45	10:30	11:30
Temp (C)	25.11	24.18	24.52	19.63	
D.O. (mg/l)	4.62	4.90	6.54	5.19	
D.O. (% sat)	56.1	58.5	78.6	56.8	
pH (fld) SU	7.43	7.70	7.94	7.72	
Sp Cond (fld)(µmhos/cm)	554.4	622	549	649.9	
Sp Cond (lab)(µmhos/cm)	533	596	522	625	658
BOD5 (mg/l)					
CBOD20 (mg/l)					
COD (mg/l)	28	24	24 J	20	17
Ammonia-N (mg/l)	0.159	0.272	0.165	0.197	<0.050
Nitrate-nitrite-N (mg/l)	0.64	0.14	0.14	<0.10	<0.10
Nitrite-N (mg/l)	0.022	<0.020	<0.020	<0.020	<0.020
TKN (mg/l)	1.02	1.32	0.58	0.88	0.89
Orthophosphate (mg/l)				0.012	<0.010
Phosphorus-T (mg/l)	0.112	0.11	0.096	0.092	0.068
TSS (mg/l)	87	40	54	127	32
TDS (mg/l)	402	426	332	410	402
Chloride (mg/l)	20.2	22.1	26.5	22.2	26
Aluminum-T (µg/l)		805		1060	
Arsenic-T (µg/l)		3.2		4.1	
Barium-T (µg/l)		75		73	
Cadmium-T (µg/l)		<0.20		<0.20	
Calcium-T (mg/l)		73		68	
Chromium-T (µg/l)		<2.0		<2.0	
Copper-T (µg/l)		2.8		2.9	
Iron-T (µg/l)		1670		2180	
Lead-T (µg/l)		<2.0		<2.0	
Magnesium-T (mg/l)		25		27	
Manganese-T (µg/l)		219		139	
Mercury-T (µg/l)		<0.20		<0.20	
Nickel-T (µg/l)		5.5		4.7	
Potassium-T (mg/l)		3		3	
Selenium-T (µg/l)		<2.0		<2.0	
Sodium-T (mg/l)		15		18	
Strontium-T (µg/l)		2480		3560	
Zinc-T (µg/l)		10		<10	
Hardness (mg/l CaCO3)		285		281	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: **RENNICK CREEK S OF RUSSELLS POINT @ ST. RT. 235** SWDO Map # 34

River Mile: 0.34 Storet ID: H01K02 WAU 05080001-03-02

Latitude/Longitude: 40.4274 /-83.9069 Drainage Area (mi2): 10.3 County: Logan Ecoregion: ECBP USGS Quad: Russells Point

Date Collected	6/26/2008	7/17/2008	7/31/2008	8/7/2008	8/21/2008	9/25/2008
Time	10:40	1:20	12:55	12:50	12:00	12:05
Temp (C)	19.10	19.65	18.39	18.69	16.75	16.54
D.O. (mg/l)	5.78	8.20	8.49	8.07	7.40	6.04
D.O. (% sat)	62.5	89.7	90.6	86.6	76.3	62.0
pH (fld) SU	7.52	7.80	8.02	8.05	8.00	7.87
Sp Cond (fld)(µmhos/cm)	233.8	748.4	775	768	797.1	718.2
Sp Cond (lab)(µmhos/cm)	179 RC	735	750	752	761	776
BOD5 (mg/l)						
CBOD20 (mg/l)						
COD (mg/l)	34	19	41	<10	<10	<10
Ammonia-N (mg/l)	0.308	0.05	0.105	0.075	<0.050	0.084
Nitrate-nitrite-N (mg/l)	4.76	1.28	0.73	0.71	0.65	0.42
Nitrite-N (mg/l)	0.069	<0.020	<0.020	<0.020	<0.020	<0.020
TKN (mg/l)	1.15	0.23	0.91	0.21	0.32	0.46
Orthophosphate (mg/l)						
Phosphorus-T (mg/l)	0.297	0.027	0.035	0.048	0.061	0.048
TSS (mg/l)	310	8	12	17	13	10
TDS (mg/l)	258 RC	498	504	470	534	464
Chloride (mg/l)	<5.0	13.6	14.1	14.7	15.1	14
Aluminum-T (µg/l)	11100		272		330	
Arsenic-T (µg/l)	3.1		<2.0		<2.0	
Barium-T (µg/l)	114		96		99	
Cadmium-T (µg/l)	<0.20		<0.20		<0.20	
Calcium-T (mg/l)	34		103		103	
Chromium-T (µg/l)	9.1		<2.0		<2.0	
Copper-T (µg/l)	9.9		<2.0		<2.0	
Iron-T (µg/l)	13700		547		644	
Lead-T (µg/l)	8.3		<2.0		<2.0	
Magnesium-T (mg/l)	11		36		37	
Manganese-T (µg/l)	206		48		51	
Mercury-T (µg/l)	<0.20		<0.20		<0.20	
Nickel-T (µg/l)	13.9		3		2.8	
Potassium-T (mg/l)	5		2		2	
Selenium-T (µg/l)	<2.0		<2.0		<2.0	
Sodium-T (mg/l)	<5		7		7	
Strontium-T (µg/l)	624		3730		3690	
Zinc-T (µg/l)	50		<10		<10	
Hardness (mg/l CaCO3)	130		405		410	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: **BRANDYWINE CREEK NEAR MOUTH @ NOTESTINE RD. (UPPER CROSSING)** SWDO Map # 45

River Mile: 0.58 Storet ID: H01K10 WAU 05080001-03-06

Latitude/Longitude: 40.4099 /-83.9318 Drainage Area (mi2): 8.8 County: Logan Ecoregion: ECBP USGS Quad: Russells Point

Date Collected	6/26/2008	7/17/2008	7/31/2008	8/7/2008	8/21/2008	9/25/2008
Time	9:45	12:30	1:20	1:30	12:50	1:05
Temp (C)	19.18	25.24	25.99	25.42	23.22	17.18
D.O. (mg/l)	5.11	11.70	5.18	7.41	6.02	6.24
D.O. (% sat)	55.3	142.5	63.9	90.5	70.7	65.0
pH (fld) SU	7.45	7.96	7.81	7.94	7.87	7.66
Sp Cond (fld)(µmhos/cm)	152	663.2	706	724	759.4	705.6
Sp Cond (lab)(µmhos/cm)	164 RC	628	680	689	722	754
BOD5 (mg/l)						
CBOD20 (mg/l)						
COD (mg/l)	19	19	23	10	11	<10
Ammonia-N (mg/l)	0.29	0.058	0.074	0.058	0.066	<0.050
Nitrate-nitrite-N (mg/l)	4.33	1.81	<0.10	<0.10	<0.10	<0.10
Nitrite-N (mg/l)	0.04	0.021	<0.020	<0.020	<0.020	<0.020
TKN (mg/l)	0.97	0.45	0.49	0.37	0.47	0.23
Orthophosphate (mg/l)						
Phosphorus-T (mg/l)	0.509	0.046	0.051	0.022	0.068	0.038
TSS (mg/l)	242	<5	6	<5	76	9
TDS (mg/l)	198 RC	408	438	410	458	454
Chloride (mg/l)	<5.0	20.5	30.6	31.4	25.2	23
Aluminum-T (µg/l)	7420		<200		280	
Arsenic-T (µg/l)	2.7		2.5		2.5	
Barium-T (µg/l)	83		101		126	
Cadmium-T (µg/l)	<0.20		<0.20		<0.20	
Calcium-T (mg/l)	24		71		82	
Chromium-T (µg/l)	8		<2.0		<2.0	
Copper-T (µg/l)	9.5		<2.0		<2.0	
Iron-T (µg/l)	8840		451		572	
Lead-T (µg/l)	6.9		<2.0		<2.0	
Magnesium-T (mg/l)	9		36		42	
Manganese-T (µg/l)	120		78		40	
Mercury-T (µg/l)	<0.20		<0.20		<0.20	
Nickel-T (µg/l)	11.7		3.6		3	
Potassium-T (mg/l)	6		2		3	
Selenium-T (µg/l)	<2.0		<2.0		<2.0	
Sodium-T (mg/l)	<5		16		12	
Strontium-T (µg/l)	282		3490		4040	
Zinc-T (µg/l)	43		<10		<10	
Hardness (mg/l CaCO3)	97		326		378	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: **RUM CREEK S OF JACKSON CENTER @ WILDERMUTH RD.** SWDO Map # 42

River Mile: 8.63 Storet ID: H01K09 WAU 05080001-03-03

Latitude/Longitude: 40.4026 /-84.0257 Drainage Area (mi2): 8.2 County: Shelby Ecoregion: ECBP USGS Quad: Jackson Center

Date Collected	6/26/2008	7/17/2008	7/31/2008	8/7/2008	8/21/2008	9/25/2008
Time	11:55	11:20	11:45	12:10	12:45	11:30
Temp (C)	20.20	20.84	23.17	24.04	21.37	17.83
D.O. (mg/l)	6.93	7.23	5.00	5.98	10.59	3.53
D.O. (% sat)	76.6	81.0	58.5	71.2	119.8	37.2
pH (fld) SU	6.98	7.65	7.79	7.81	8.18	7.68
Sp Cond (fld)(µmhos/cm)	254	630	648	640	587	661
Sp Cond (lab)(µmhos/cm)	163 RC	624	627	636	595	689
BOD5 (mg/l)						
CBOD20 (mg/l)						
COD (mg/l)	19	12	14	17	20	17
Ammonia-N (mg/l)	0.493	0.05	0.104	0.081	<0.050	0.05
Nitrate-nitrite-N (mg/l)	8.51	4.06	0.58	0.97	<0.10	<0.10
Nitrite-N (mg/l)	0.088	0.025	<0.020	0.052	<0.020	<0.020
TKN (mg/l)	1.98	0.28	0.73	0.47	0.63	0.62
Orthophosphate (mg/l)					0.032	0.065
Phosphorus-T (mg/l)	0.357	0.074	0.104	0.042	0.103	0.12
TSS (mg/l)	32	35	67	14	27	20
TDS (mg/l)	270 RC	392	400	374	374	388
Chloride (mg/l)	6.6	27	42.1	34.1	51.1	43.4
Aluminum-T (µg/l)	5480		1960		496	
Arsenic-T (µg/l)	2.1		2.9		4	
Barium-T (µg/l)	72		91		70	
Cadmium-T (µg/l)	0.29		<0.20		<0.20	
Calcium-T (mg/l)	32		68		47	
Chromium-T (µg/l)	5		2.2		<2.0	
Copper-T (µg/l)	7.8		6.2		2	
Iron-T (µg/l)	6550		2870		900	
Lead-T (µg/l)	4.7		2.6		<2.0	
Magnesium-T (mg/l)	11		33		33	
Manganese-T (µg/l)	59		116		59	
Mercury-T (µg/l)	<0.20		<0.20		<0.20	
Nickel-T (µg/l)	8.2		5.8		3.5	
Potassium-T (mg/l)	4		2		3	
Selenium-T (µg/l)	<2.0		<2.0		<2.0	
Sodium-T (mg/l)	<5		19		21	
Strontium-T (µg/l)	121		896		924	
Zinc-T (µg/l)	33		23		<10	
Hardness (mg/l CaCO3)	125		306		253	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: **RUM CREEK SE OF JACKSON CENTER @ MERANDA RD.** SWDO Map # 43

River Mile: 6.58 Storet ID: H01K08 WAU 05080001-03-03

Latitude/Longitude: 40.3906 /-83.9992 Drainage Area (mi2): 15.3 County: Logan Ecoregion: ECBP USGS Quad: Russells Point

Date Collected	6/26/2008	7/17/2008	7/31/2008	8/7/2008	8/21/2008	9/25/2008
Time	11:30	11:00	11:15	11:50	12:30	11:15
Temp (C)	19.80	23.29	23.15	23.65	22.00	16.70
D.O. (mg/l)	7.40	8.93	7.46	8.63	8.29	6.32
D.O. (% sat)	81.1	104.8	87.4	102.1	95.0	65.1
pH (fld) SU	6.95	7.93	7.97	7.94	8.07	7.99
Sp Cond (fld)(µmhos/cm)	202	647	713	690	749	713
Sp Cond (lab)(µmhos/cm)	201 RC	643	705	687	739	744
BOD5 (mg/l)						
CBOD20 (mg/l)						
COD (mg/l)	49	12	<10	21	<10	11
Ammonia-N (mg/l)	0.394	<0.050	0.051	0.211	<0.050	<0.050
Nitrate-nitrite-N (mg/l)	6.13	2.69	<0.10	2.73	<0.10	<0.10
Nitrite-N (mg/l)	0.068	0.021	<0.020	0.171	<0.020	<0.020
TKN (mg/l)	1.53	0.43	0.39	0.6	0.31	0.39
Orthophosphate (mg/l)						
Phosphorus-T (mg/l)	0.384	0.06	0.064	0.156	0.108	0.097
TSS (mg/l)	145	18	248	11	18	8
TDS (mg/l)	254 RC	426	436	420	456	436
Chloride (mg/l)	5.1	23.8	19.6	42.4	10.1	17.9
Aluminum-T (µg/l)	7280		272		768	
Arsenic-T (µg/l)	2.6		4.7		7.1	
Barium-T (µg/l)	82		110		124	
Cadmium-T (µg/l)	0.22		<0.20		<0.20	
Calcium-T (mg/l)	26		85		87	
Chromium-T (µg/l)	6.8		<2.0		<2.0	
Copper-T (µg/l)	8.7		<2.0		<2.0	
Iron-T (µg/l)	9040		435		1220	
Lead-T (µg/l)	6.3		<2.0		<2.0	
Magnesium-T (mg/l)	9		39		43	
Manganese-T (µg/l)	100		65		71	
Mercury-T (µg/l)	<0.20		<0.20		<0.20	
Nickel-T (µg/l)	10.1		3.2		3.1	
Potassium-T (mg/l)	5		2		2	
Selenium-T (µg/l)	<2.0		<2.0		<2.0	
Sodium-T (mg/l)	<5		14		11	
Strontium-T (µg/l)	141		9240		10300	
Zinc-T (µg/l)	38		<10		<10	
Hardness (mg/l CaCO3)	102		373		394	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: RUM CREEK NEAR MOUTH @ CO. RD. 58 SWDO Map # 44

River Mile: 0.79 Storet ID: H01K07 WAU 05080001-03-03

Latitude/Longitude: 40.3766 /-83.9346 Drainage Area (mi2): 27.2 County: Logan Ecoregion: ECBP USGS Quad: Russells Point

Date Collected	6/26/2008	7/17/2008	7/31/2008	8/7/2008	8/21/2008	9/25/2008
Time	11:10	10:35	10:55	11:30	12:10	11:00
Temp (C)	20.10	23.25	23.01	23.06	19.95	15.91
D.O. (mg/l)	6.14	8.15	5.83	7.78	6.56	5.10
D.O. (% sat)	67.7	95.6	68.1	90.9	72.2	51.7
pH (fld) SU	7.14	8.04	8.02	8.09	8.07	7.84
Sp Cond (fld)(µmhos/cm)	145	610	671	653	706	694
Sp Cond (lab)(µmhos/cm)	146 RC	602	666	646	697	715
BOD5 (mg/l)						
CBOD20 (mg/l)						
COD (mg/l)	19	12	<10	16	<10	14
Ammonia-N (mg/l)	0.334	0.053	0.074	0.069	0.06	0.056
Nitrate-nitrite-N (mg/l)	3.96	2.59	<0.10	0.18	<0.10	<0.10
Nitrite-N (mg/l)	0.059	<0.020	<0.020	<0.020	<0.020	<0.020
TKN (mg/l)	1.2	0.38	0.44	0.33	0.36	0.57
Orthophosphate (mg/l)						
Phosphorus-T (mg/l)	0.417	0.066	0.066	0.066	0.052	0.116
TSS (mg/l)	252	7	<5	9	5	5
TDS (mg/l)	230 RC	390	406	380	432	426
Chloride (mg/l)	<5.0	22.9	25.5	22.4	13.9	31.1
Aluminum-T (µg/l)	9950		<200		<200	
Arsenic-T (µg/l)	2.9		3.6		4.1	
Barium-T (µg/l)	99		80		87	
Cadmium-T (µg/l)	0.24		<0.20		<0.20	
Calcium-T (mg/l)	19		75		76	
Chromium-T (µg/l)	9.5		<2.0		<2.0	
Copper-T (µg/l)	10.8		<2.0		<2.0	
Iron-T (µg/l)	13000		255		191	
Lead-T (µg/l)	9.1		<2.0		<2.0	
Magnesium-T (mg/l)	8		37		40	
Manganese-T (µg/l)	150		76		69	
Mercury-T (µg/l)	<0.20		<0.20		<0.20	
Nickel-T (µg/l)	13.4		3.1		2.5	
Potassium-T (mg/l)	6		2		2	
Selenium-T (µg/l)	<2.0		<2.0		<2.0	
Sodium-T (mg/l)	<5		16		14	
Strontium-T (µg/l)	191		5350		7580	
Zinc-T (µg/l)	56		<10		<10	
Hardness (mg/l CaCO3)	80		340		354	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: **BOKENGEHALAS CREEK W OF BELLEFONTAINE, TWP RD. 31** SWDO Map # 35

River Mile: 7.88 Storet ID: H01S23 WAU 05080001-03-05

Latitude/Longitude: 40.3701 /-83.8494 Drainage Area (mi2): 21 County: Logan Ecoregion: ECBP USGS Quad: Bellefontaine

Date Collected	6/25/2008	7/16/2008	7/30/2008	8/6/2008	8/20/2008	9/24/2008
Time	11:45	1:00	11:10	12:50	12:45	1:05
Temp (C)	15.81	18.55		19.56	17.96	16.11
D.O. (mg/l)	10.57	10.02		12.19	9.64	4.88
D.O. (% sat)	106.9	107.2		133.1	102.0	49.7
pH (fld) SU	8.01	8.06		8.23	8.18	7.94
Sp Cond (fld)(µmhos/cm)	687.6	684.5		682	690.3	642.9
Sp Cond (lab)(µmhos/cm)	676	671	696 B	674	674	695
BOD5 (mg/l)						
CBOD20 (mg/l)						
COD (mg/l)	<10	15	<10	37 J	<10	<10
Ammonia-N (mg/l)	<0.050	<0.050	0.05	<0.050	<0.050	<0.050
Nitrate-nitrite-N (mg/l)	2.23	1.91	2.01	1.93	1.69	1.5
Nitrite-N (mg/l)	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
TKN (mg/l)	0.26	<0.20	0.21	<0.20	0.43	0.24
Orthophosphate (mg/l)						
Phosphorus-T (mg/l)	0.011	<0.010	<0.010	0.017	0.062	<0.010
TSS (mg/l)	<5	<5	<5	<5	<5	<5
TDS (mg/l)	434	438	428	416	428	428
Chloride (mg/l)	23.1	21.9	21.6	23.5	22.8	22.1
Aluminum-T (µg/l)	<200		<200		<200	
Arsenic-T (µg/l)	<2.0		<2.0		<2.0	
Barium-T (µg/l)	118		128		114	
Cadmium-T (µg/l)	<0.20		<0.20		<0.20	
Calcium-T (mg/l)	91		93		80	
Chromium-T (µg/l)	<2.0		<2.0		<2.0	
Copper-T (µg/l)	<2.0		<2.0		<2.0	
Iron-T (µg/l)	187		207		162	
Lead-T (µg/l)	<2.0		<2.0		<2.0	
Magnesium-T (mg/l)	33		35		33	
Manganese-T (µg/l)	23		25		18	
Mercury-T (µg/l)	<0.20		<0.20		<0.20	
Nickel-T (µg/l)	2.1		2.3		<2.0	
Potassium-T (mg/l)	2		2		2	
Selenium-T (µg/l)	<2.0		<2.0		<2.0	
Sodium-T (mg/l)	10		11		10	
Strontium-T (µg/l)	1270		1400		1380	
Zinc-T (µg/l)	<10		<10		<10	
Hardness (mg/l CaCO3)	363		376		336	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: **BOKENGEHALAS CREEK UPST DEGRAFF @ TWP. RD. 209** SWDO Map # 36

River Mile: 4.61 Storet ID: H01P15 WAU 05080001-03-05

Latitude/Longitude: 40.3472 /-83.8911 Drainage Area (mi2): 36.3 County: Logan Ecoregion: ECBP USGS Quad: De Graff

Date Collected	6/25/2008	7/16/2008	7/30/2008	8/6/2008	8/20/2008	9/24/2008
Time	12:10	1:15	10:45	1:30	1:01	1:30
Temp (C)	17.59	20.07		21.79	19.35	17.87
D.O. (mg/l)	10.13	9.79		9.86	10.18	9.73
D.O. (% sat)	106.3	108.0		112.6	110.9	102.8
pH (fld) SU	7.98	8.14		8.32	8.40	8.28
Sp Cond (fld)(µmhos/cm)	875.1	846.9		879	1078.5	1014.9
Sp Cond (lab)(µmhos/cm)	864	834	932 B	882	1040	1100
BOD5 (mg/l)						
CBOD20 (mg/l)						
COD (mg/l)	<10	37	12	15	12	<10
Ammonia-N (mg/l)	<0.050	<0.050	0.057	<0.050	<0.050	<0.050
Nitrate-nitrite-N (mg/l)	2.78	2.29	2.68	2.34	2.59	3.12
Nitrite-N (mg/l)	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
TKN (mg/l)	0.55	0.5	1.03	0.75	0.53	0.91
Orthophosphate (mg/l)						
Phosphorus-T (mg/l)	0.171	0.13	0.225	0.223	0.218	0.327
TSS (mg/l)	<5	<5	<5	<5	<5	<5
TDS (mg/l)	544	522	586	526	636	664
Chloride (mg/l)	74.7	69.6	90.4	81.7	125	130
Aluminum-T (µg/l)	<200		<200		<200	
Arsenic-T (µg/l)	<2.0		2		2.2	
Barium-T (µg/l)	124		130		117	
Cadmium-T (µg/l)	<0.20		<0.20		<0.20	
Calcium-T (mg/l)	98		94		86	
Chromium-T (µg/l)	<2.0		<2.0		<2.0	
Copper-T (µg/l)	2.5		2.5		2.5	
Iron-T (µg/l)	246		292		150	
Lead-T (µg/l)	<2.0		2.2		<2.0	
Magnesium-T (mg/l)	35		36		36	
Manganese-T (µg/l)	20		20		14	
Mercury-T (µg/l)	<0.20		<0.20		<0.20	
Nickel-T (µg/l)	3.2		3.9		3.6	
Potassium-T (mg/l)	3		3		4	
Selenium-T (µg/l)	<2.0		<2.0		<2.0	
Sodium-T (mg/l)	43		57		82	
Strontium-T (µg/l)	1350		1450		1560	
Zinc-T (µg/l)	<10		<10		<10	
Hardness (mg/l CaCO3)	389		383		363	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: BOKENGEHALAS CREEK AT DEGRAFF @ MIAMI ST. SWDO Map # 37

River Mile: 1.13 Storet ID: H01K01 WAU 05080001-03-05

Latitude/Longitude: 40.3116 /-83.9121 Drainage Area (mi2): 41 County: Logan Ecoregion: ECBP USGS Quad: De Graff

Date Collected	6/25/2008	7/16/2008	7/30/2008	8/6/2008	8/20/2008	9/24/2008
Time	1:10	1:45	10:20	2:00	9:50	1:50
Temp (C)	18.92	21.57		22.58	18.66	17.71
D.O. (mg/l)	9.78	8.90		9.75	8.90	9.27
D.O. (% sat)	105.5	101.2		113.0	95.5	97.6
pH (fld) SU	8.13	8.06		8.36	8.37	8.32
Sp Cond (fld)(µmhos/cm)	858.6	829.6		784	1039.8	975.8
Sp Cond (lab)(µmhos/cm)	838	814	878 B	777	1020	1060
BOD5 (mg/l)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
CBOD20 (mg/l)	4.1	3.7	4.7	4	<3.0	<3.0
COD (mg/l)	12	11	12	12	<10	<10
Ammonia-N (mg/l)	<0.050	<0.050	0.05	<0.050	<0.050	<0.050
Nitrate-nitrite-N (mg/l)	2.67	2.32	2.44	2.07	2.47	2.79
Nitrite-N (mg/l)	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
TKN (mg/l)	0.46	0.41	0.5	0.72	0.53	0.98
Orthophosphate (mg/l)	0.148	0.109	0.157 J	0.171	0.183	0.253
Phosphorus-T (mg/l)	0.147	0.116	0.163	0.188	0.183	0.248
TSS (mg/l)	6	<5	5	<5	<5	<5
TDS (mg/l)	524	526	544	466	620	628
Chloride (mg/l)	71.6	66.2	78.2	68.5	120	118
Aluminum-T (µg/l)	<200		<200		<200	
Arsenic-T (µg/l)	<2.0		<2.0		2	
Barium-T (µg/l)	115		126		118	
Cadmium-T (µg/l)	<0.20		<0.20		<0.20	
Calcium-T (mg/l)	91		95		88	
Chromium-T (µg/l)	<2.0		<2.0		<2.0	
Copper-T (µg/l)	2.7		2.4		2.9	
Iron-T (µg/l)	226		225		182	
Lead-T (µg/l)	<2.0		<2.0		<2.0	
Magnesium-T (mg/l)	33		36		37	
Manganese-T (µg/l)	16		15		13	
Mercury-T (µg/l)	<0.20		<0.20		<0.20	
Nickel-T (µg/l)	3.4		3.9		3.7	
Potassium-T (mg/l)	3		3		4	
Selenium-T (µg/l)	<2.0		<2.0		<2.0	
Sodium-T (mg/l)	40		47		76	
Strontium-T (µg/l)	1190		1320		1460	
Zinc-T (µg/l)	18		<10		<10	
Hardness (mg/l CaCO3)	363		385		372	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: **BLUE JACKET CREEK AT BELLEFONTAINE @ TROY ST.** SWDO Map # 38

River Mile: 6.31 Storet ID: H01P11 WAU 05080001-03-04

Latitude/Longitude: 40.3503 /-83.7744 Drainage Area (mi2): 3 County: Logan Ecoregion: ECBP USGS Quad: Bellefontaine

Date Collected	6/25/2008	7/16/2008	7/30/2008	8/6/2008	8/20/2008	9/24/2008
Time	11:00	12:00	1:45	10:25	12:00	10:45
Temp (C)	15.38	17.75		17.05	16.64	14.91
D.O. (mg/l)	9.75	8.66		9.13	10.00	10.35
D.O. (% sat)	97.7	91.2		94.8	102.9	102.7
pH (fld) SU	7.91	8.01		8.21	8.12	7.94
Sp Cond (fld)(µmhos/cm)	836.1	817.4		826	835.1	785.1
Sp Cond (lab)(µmhos/cm)	814	804	810 B	825	802	852
BOD5 (mg/l)						
CBOD20 (mg/l)						
COD (mg/l)	<10	<10	<10	<10	<10	<10
Ammonia-N (mg/l)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Nitrate-nitrite-N (mg/l)	1.01	0.89	0.87	0.99	1.1	1.12
Nitrite-N (mg/l)	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
TKN (mg/l)	0.28	<0.20	0.73	0.33	<0.20	0.3
Orthophosphate (mg/l)	<0.010	0.012	<0.010	<0.010	<0.010	
Phosphorus-T (mg/l)	0.01	0.016	0.014	0.013	0.018	0.011
TSS (mg/l)	<5	<5	<5	<5	<5	<5
TDS (mg/l)	512	510	506	498	514	518
Chloride (mg/l)	53	50.6	49.8	50.1	55.3	54.2
Aluminum-T (µg/l)	<200		<200		<200	
Arsenic-T (µg/l)	<2.0		<2.0		<2.0	
Barium-T (µg/l)	137		143		128	
Cadmium-T (µg/l)	<0.20		<0.20		<0.20	
Calcium-T (mg/l)	100		101		89	
Chromium-T (µg/l)	<2.0		<2.0		<2.0	
Copper-T (µg/l)	<2.0		<2.0		<2.0	
Iron-T (µg/l)	93		58		83	
Lead-T (µg/l)	<2.0		<2.0		<2.0	
Magnesium-T (mg/l)	36		38		36	
Manganese-T (µg/l)	18		10		<10	
Mercury-T (µg/l)	<0.20		<0.20		<0.20	
Nickel-T (µg/l)	2		2.3		<2.0	
Potassium-T (mg/l)	2		2		2	
Selenium-T (µg/l)	<2.0		<2.0		<2.0	
Sodium-T (mg/l)	26		27		27	
Strontium-T (µg/l)	800		820		723	
Zinc-T (µg/l)	<10		<10		<10	
Hardness (mg/l CaCO3)	398		409		370	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: **BLUE JACKET CREEK @ CO. RD. 11 (UPSTREAM CROSSING), DST BELLEFONTAINE WWTP** SWDO Map # 39

River Mile: 5.39 Storet ID: H01P12 WAU 05080001-03-04

Latitude/Longitude: 40.3484 /-83.7891 Drainage Area (mi2): 7.8 County: Logan Ecoregion: ECBP USGS Quad: Bellefontaine

Date Collected	6/25/2008	7/16/2008	7/30/2008	8/6/2008	8/20/2008	9/24/2008
Time	9:50	11:30	1:55	12:00	12:15	11:00
Temp (C)	16.86	19.59		21.52	20.42	18.44
D.O. (mg/l)	9.21	9.42		9.42	10.18	8.66
D.O. (% sat)	95.5	103.3		107.3	113.6	92.9
pH (fld) SU	7.87	7.92		8.15	8.22	7.90
Sp Cond (fld)(µmhos/cm)	1756.8	1505.3		1562	1960.9	1911.5
Sp Cond (lab)(µmhos/cm)	1700	1490	1620 B	1540	1850	2060
BOD5 (mg/l)						
CBOD20 (mg/l)						
COD (mg/l)	<10	14	12	12	12	11
Ammonia-N (mg/l)	<0.050	<0.050	0.064	<0.050	0.052	<0.050
Nitrate-nitrite-N (mg/l)	7.18	5.78	7.84	6.8	6.92	11.2
Nitrite-N (mg/l)	<0.020	<0.020	<0.020	<0.020	<0.020	0.025
TKN (mg/l)	0.48	0.59	1.02	0.89	0.53	1.15
Orthophosphate (mg/l)	1.08	0.752	1.35	1.22	1.16	
Phosphorus-T (mg/l)	0.991	0.765	1.27	1.13	1.12	1.83
TSS (mg/l)	<5	<5	9	12	<5	<5
TDS (mg/l)	996	878	950	904	1110	1180
Chloride (mg/l)	341	258	295	266	406	430
Aluminum-T (µg/l)	<200		<200		<200	
Arsenic-T (µg/l)	<2.0		<2.0		2.5	
Barium-T (µg/l)	124		128		118	
Cadmium-T (µg/l)	<0.20		<0.20		<0.20	
Calcium-T (mg/l)	104		108		98	
Chromium-T (µg/l)	<2.0		<2.0		<2.0	
Copper-T (µg/l)	8.3		14.8		7.7	
Iron-T (µg/l)	70		293		85	
Lead-T (µg/l)	<2.0		4.2		2.1	
Magnesium-T (mg/l)	38		42		43	
Manganese-T (µg/l)	<10		14		<10	
Mercury-T (µg/l)	<0.20		<0.20		<0.20	
Nickel-T (µg/l)	3.9		4.8		4.2	
Potassium-T (mg/l)	6		7		8	
Selenium-T (µg/l)	<2.0		<2.0		<2.0	
Sodium-T (mg/l)	207		187		241	
Strontium-T (µg/l)	1040		1220		1410	
Zinc-T (µg/l)	24		17		13	
Hardness (mg/l CaCO3)	416		443		422	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: **BLUE JACKET CREEK DST. BELLEFONTAINE @ TWP. RD. 31** SWDO Map # 40

River Mile: 0.72 Storet ID: H01P14 WAU 05080001-03-04

Latitude/Longitude: 40.3635 /-83.8502 Drainage Area (mi2): 13.7 County: Logan Ecoregion: ECBP USGS Quad: Bellefontaine

Date Collected	6/25/2008	7/16/2008	7/30/2008	8/6/2008	8/20/2008	9/24/2008
Time	11:30	12:50	11:30	12:35	12:30	12:50
Temp (C)	18.27	21.24		22.18	20.15	19.97
D.O. (mg/l)	11.56	10.00		10.69	11.53	11.68
D.O. (% sat)	123.2	113.0		123.0	127.7	128.9
pH (fld) SU	7.97	8.20		8.32	8.49	8.46
Sp Cond (fld)(µmhos/cm)	1125.7	1003.9		1100	1447.6	1390.2
Sp Cond (lab)(µmhos/cm)	988	995	1160 B	1100	1380	1480
BOD5 (mg/l)						
CBOD20 (mg/l)						
COD (mg/l)	12	34	<10	15	<10	<10
Ammonia-N (mg/l)	<0.050	<0.050	0.06	0.057	<0.050	<0.050
Nitrate-nitrite-N (mg/l)	1.58	2.32	3.44	3.05	3.78	5.16
Nitrite-N (mg/l)	<0.020	<0.020	0.02	<0.020	0.03	0.029
TKN (mg/l)	0.73	0.68	0.92	1.03	0.67	1.12
Orthophosphate (mg/l)						
Phosphorus-T (mg/l)	0.416	0.279	0.459	0.448	0.408	0.898
TSS (mg/l)	<5	6	6	5	<5	5
TDS (mg/l)	674	606	716	634	836	886
Chloride (mg/l)	131	109	145	132	251	246
Aluminum-T (µg/l)	<200		<200		<200	
Arsenic-T (µg/l)	<2.0		2.6		3.2	
Barium-T (µg/l)	122		127		119	
Cadmium-T (µg/l)	<0.20		<0.20		<0.20	
Calcium-T (mg/l)	101		99		94	
Chromium-T (µg/l)	<2.0		<2.0		<2.0	
Copper-T (µg/l)	4.3		3.8		4.3	
Iron-T (µg/l)	238		366		235	
Lead-T (µg/l)	2.8		4.2		4.1	
Magnesium-T (mg/l)	37		38		39	
Manganese-T (µg/l)	21		34		29	
Mercury-T (µg/l)	<0.20		<0.20		<0.20	
Nickel-T (µg/l)	4.3		5.1		5.4	
Potassium-T (mg/l)	4		4		5	
Selenium-T (µg/l)	<2.0		<2.0		<2.0	
Sodium-T (mg/l)	86		96		141	
Strontium-T (µg/l)	1350		1470		1590	
Zinc-T (µg/l)	10		13		<10	
Hardness (mg/l CaCO3)	405		404		395	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: **BELLEFONTAINE WWTP OUTFALL TO OPOSSUM RUN** SWDO Map # 41

River Mile: 0.50 Storet ID: H01W07 WAU 05080001-03-04

Latitude/Longitude: 40.35316 /-83.7773 Drainage Area (mi2): NA County: Logan Ecoregion: ECBP USGS Quad: Bellefontaine

Date Collected	6/25/2008	7/16/2008	7/30/2008	8/6/2008	8/20/2008	9/24/2008
Time	10:30	11:00	1:30	10:45	11:45	10:30
Temp (C)	18.33	19.81		21.81	20.97	20.03
D.O. (mg/l)	3.77	5.19		4.73	4.71	4.32
D.O. (% sat)	40.4	57.2		54.3	53.2	47.8
pH (fld) SU	7.52	7.54		7.77	7.69	7.58
Sp Cond (fld)(µmhos/cm)	2488.6	2027.1		2000	2292.5	2187.8
Sp Cond (lab)(µmhos/cm)	2430	2000	2050 B	1980	2230	2340
BOD5 (mg/l)						
CBOD20 (mg/l)						
COD (mg/l)	15	17	12	14	17	14
Ammonia-N (mg/l)	<0.050	0.052	0.063	0.064	0.082	<0.050
Nitrate-nitrite-N (mg/l)	10.2	9.35	10	10.3	9.88	14.6
Nitrite-N (mg/l)	<0.020	<0.020	<0.020	<0.020	0.052	<0.020
TKN (mg/l)	0.78	0.7	1.25	1.12	1.06	1.38
Orthophosphate (mg/l)	1.9	1.33	2.19 J	2.01	1.24	
Phosphorus-T (mg/l)	1.88	1.35	2.7	2.02	1.63	2.49
TSS (mg/l)	<5	<5	<5	<5	<5	<5
TDS (mg/l)	1380	1160	1200	1120	1350	1350
Chloride (mg/l)	552	420	430	389	531	503
Aluminum-T (µg/l)	<200		<200		<200	
Arsenic-T (µg/l)	2.2		2.2		3.1	
Barium-T (µg/l)	124		121		111	
Cadmium-T (µg/l)	<0.20		<0.20		<0.20	
Calcium-T (mg/l)	113		109		102	
Chromium-T (µg/l)	<2.0		<2.0		<2.0	
Copper-T (µg/l)	14.2		10.8		9.8	
Iron-T (µg/l)	<50		<50		<50	
Lead-T (µg/l)	<2.0		<2.0		<2.0	
Magnesium-T (mg/l)	42		43		43	
Manganese-T (µg/l)	<10		<10		<10	
Mercury-T (µg/l)	<0.20		<0.20		<0.20	
Nickel-T (µg/l)	4		4.7		3.9	
Potassium-T (mg/l)	8		10		10	
Selenium-T (µg/l)	<2.0		<2.0		<2.0	
Sodium-T (mg/l)	331		317		326	
Strontium-T (µg/l)	1200		1300		1480	
Zinc-T (µg/l)	33		19		21	
Hardness (mg/l CaCO3)	455		449		432	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: STONY CREEK NEAR DEGRAFF @ ST. RT. 508 SWDO Map # 52

River Mile: 2.45 Storet ID: H01S05 WAU 05080001-04-03

Latitude/Longitude: 40.2875 /-83.8989 Drainage Area (mi2): 35.4 County: Logan Ecoregion: ECBP USGS Quad: De Graff

Date Collected	6/25/2008	7/16/2008	7/30/2008	8/6/2008	8/20/2008	9/24/2008
Time	11:15	11:40	11:10	12:10	12:50	12:05
Temp (C)	17.10	22.85	19.81	21.17	19.74	16.22
D.O. (mg/l)	9.88	8.82	8.47	9.70	11.43	9.94
D.O. (% sat)	102.7	102.7	93.0	109.3	125.3	101.3
pH (fld) SU	8.11	8.11	8.12	8.28	8.44	8.23
Sp Cond (fld)(µmhos/cm)	662.1	539.5	663.4	651.2	648.1	668.5
Sp Cond (lab)(µmhos/cm)	874	596	668	638	636	678
BOD5 (mg/l)						
CBOD20 (mg/l)						
COD (mg/l)	<10	28	17	13	<10	<10
Ammonia-N (mg/l)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Nitrate-nitrite-N (mg/l)	1.68	1.7	1.24	1.06	1.09	1.03 B
Nitrite-N (mg/l)	<0.020	0.023	<0.020	<0.020	<0.020	<0.020
TKN (mg/l)	0.37	0.62	0.27	<0.20	<0.20	<0.20
Orthophosphate (mg/l)						
Phosphorus-T (mg/l)	0.028	0.059	0.013	0.016	0.01	<0.010
TSS (mg/l)	9	31	16	10	<5	7
TDS (mg/l)	434	386	424	400	404	428
Chloride (mg/l)	15.2	13.4	14.6	14	15.8	14.4
Aluminum-T (µg/l)	<200		237		<200	
Arsenic-T (µg/l)	<2.0		<2.0		<2.0	
Barium-T (µg/l)	138		153		138	
Cadmium-T (µg/l)	<0.20		<0.20		<0.20	
Calcium-T (mg/l)	91		92		82	
Chromium-T (µg/l)	<2.0		<2.0		<2.0	
Copper-T (µg/l)	<2.0		<2.0		<2.0	
Iron-T (µg/l)	426		615		314	
Lead-T (µg/l)	<2.0		<2.0		<2.0	
Magnesium-T (mg/l)	35		37		37	
Manganese-T (µg/l)	37		40		21	
Mercury-T (µg/l)	<0.20		<0.20		<0.20	
Nickel-T (µg/l)	2.2		2.5		<2.0	
Potassium-T (mg/l)	2		2		2	
Selenium-T (µg/l)	<2.0		<2.0		<2.0	
Sodium-T (mg/l)	6		7		6	
Strontium-T (µg/l)	1040		1100		1160	
Zinc-T (µg/l)	<10		<10		<10	
Hardness (mg/l CaCO3)	371		382		357	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: **STONY CREEK NEAR DEGRAFF @ TWP. RD. 65-A** SWDO Map # 53

River Mile: 1.58 Storet ID: 600010 WAU 05080001-04-03

Latitude/Longitude: 40.2908 /-83.91 Drainage Area (mi2): 59.1 County: Logan Ecoregion: ECBP USGS Quad: De Graff

Date Collected	6/25/2008	7/16/2008	7/30/2008	8/6/2008	8/20/2008	9/24/2008
Time	11:00	11:25	10:55	11:55	12:35	11:45
Temp (C)	17.16	20.06	19.87	21.16	20.31	16.40
D.O. (mg/l)	9.12	8.30	8.92	9.51	10.37	8.93
D.O. (% sat)	94.9	91.5	98.1	107.2	114.9	91.4
pH (fld) SU	8.04	8.06	8.19	8.25	8.40	8.23
Sp Cond (fld)(µmhos/cm)	655	610.6	643.1	650.7	650.9	667.9
Sp Cond (lab)(µmhos/cm)	646	599	656	635	647	678
BOD5 (mg/l)						
CBOD20 (mg/l)						
COD (mg/l)	<10	31	12	<10	<10	<10
Ammonia-N (mg/l)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Nitrate-nitrite-N (mg/l)	2.14	2.23	1.41	1.26	1.34	1.16 B
Nitrite-N (mg/l)	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
TKN (mg/l)	0.3	0.56	1.78	0.2	<0.20	0.21
Orthophosphate (mg/l)						
Phosphorus-T (mg/l)	0.017	0.324	0.031	0.018	0.013	0.012
TSS (mg/l)	10	31	14	10	7	7
TDS (mg/l)	402	388	416	400	396	416
Chloride (mg/l)	15.2	13.9	14.9	14.7	15.8	14.5
Aluminum-T (µg/l)	208		223		<200	
Arsenic-T (µg/l)	<2.0		<2.0		<2.0	
Barium-T (µg/l)	134		142		143	
Cadmium-T (µg/l)	<0.20		<0.20		<0.20	
Calcium-T (mg/l)	90		87		83	
Chromium-T (µg/l)	<2.0		<2.0		<2.0	
Copper-T (µg/l)	<2.0		<2.0		<2.0	
Iron-T (µg/l)	505		493		314	
Lead-T (µg/l)	<2.0		<2.0		<2.0	
Magnesium-T (mg/l)	34		35		36	
Manganese-T (µg/l)	36		35		27	
Mercury-T (µg/l)	<0.20		<0.20		<0.20	
Nickel-T (µg/l)	2.1		2.5		<2.0	
Potassium-T (mg/l)	2		2		2	
Selenium-T (µg/l)	<2.0		<2.0		<2.0	
Sodium-T (mg/l)	6		7		7	
Strontium-T (µg/l)	1060		1110		1240	
Zinc-T (µg/l)	<10		<10		<10	
Hardness (mg/l CaCO3)	365		361		355	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: **MCKEE CREEK S OF BELLEFONTAINE @ CO. RD. 1 (LUDLOW RD)** SWDO Map # 56

River Mile: 9.50 Storet ID: 201069 WAU 05080001-04-01

Latitude/Longitude: 40.3342 /-83.7444 Drainage Area (mi2): 3 County: Logan Ecoregion: ECBP USGS Quad: Zanesfield

Date Collected	6/25/2008	7/16/2008	7/30/2008	8/6/2008	8/20/2008	9/24/2008
Time	9:30	9:45	2:20	11:05	11:10	11:20
Temp (C)	14.04	15.87		17.54	15.96	15.77
D.O. (mg/l)	9.34	8.58		8.87	9.32	8.29
D.O. (% sat)	90.9	86.8		93.0	94.5	83.8
pH (fld) SU	7.93	7.92		8.08	7.99	7.89
Sp Cond (fld)(µmhos/cm)	673.8	673.3		679	683.2	644.7
Sp Cond (lab)(µmhos/cm)	672	670	662 B	678	669	699
BOD5 (mg/l)						
CBOD20 (mg/l)						
COD (mg/l)	18	11	<10	<10	<10	<10
Ammonia-N (mg/l)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Nitrate-nitrite-N (mg/l)	1.65	1.38	1.5	1.54	1.56	1.19
Nitrite-N (mg/l)	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
TKN (mg/l)	<0.20	<0.20	0.53	<0.20	<0.20	0.3
Orthophosphate (mg/l)						
Phosphorus-T (mg/l)	<0.010	<0.010	<0.010	0.011	0.013	0.017
TSS (mg/l)	<5	<5	<5	<5	<5	<5
TDS (mg/l)	412	398	392	396	406	432
Chloride (mg/l)	31.3	30.8	29.7	29.5	32.4	33.5
Aluminum-T (µg/l)	<200		<200		<200	
Arsenic-T (µg/l)	<2.0		<2.0		<2.0	
Barium-T (µg/l)	127		130		124	
Cadmium-T (µg/l)	<0.20		<0.20		<0.20	
Calcium-T (mg/l)	83		81		74	
Chromium-T (µg/l)	<2.0		<2.0		<2.0	
Copper-T (µg/l)	<2.0		<2.0		<2.0	
Iron-T (µg/l)	200		95		51	
Lead-T (µg/l)	<2.0		<2.0		<2.0	
Magnesium-T (mg/l)	33		34		34	
Manganese-T (µg/l)	13		<10		<10	
Mercury-T (µg/l)	<0.20		<0.20		<0.20	
Nickel-T (µg/l)	<2.0		<2.0		<2.0	
Potassium-T (mg/l)	<2		2		2	
Selenium-T (µg/l)	<2.0		<2.0		<2.0	
Sodium-T (mg/l)	15		15		16	
Strontium-T (µg/l)	428		467		489	
Zinc-T (µg/l)	20		<10		<10	
Hardness (mg/l CaCO3)	343		342		325	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: **MCKEE CREEK S OF BELLEFONTAINE @ TWP. RD. 32** SWDO Map # 57

River Mile: 5.94 Storet ID: H01K06 WAU 05080001-04-01

Latitude/Longitude: 40.2993 /-83.7773 Drainage Area (mi2): 8.7 County: Logan Ecoregion: ECBP USGS Quad: Bellefontaine

Date Collected	6/25/2008	7/16/2008	7/30/2008	8/6/2008	8/20/2008	9/24/2008
Time	9:00	9:20	9:30	2:30	10:45	11:50
Temp (C)	15.33	17.08		21.32	16.77	16.66
D.O. (mg/l)	10.03	9.96		9.64	2.16	9.84
D.O. (% sat)	100.4	103.4		109.0	22.3	101.3
pH (fld) SU	7.98	8.23		8.09	7.95	7.86
Sp Cond (fld)(µmhos/cm)	674.4	673.1		671	688.9	658.9
Sp Cond (lab)(µmhos/cm)	664	663	674 B	664	676	715
BOD5 (mg/l)						
CBOD20 (mg/l)						
COD (mg/l)	<10	15	35	<10	<10	<10
Ammonia-N (mg/l)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Nitrate-nitrite-N (mg/l)	1.39	1.37	1.26	1.2	1.38	1.2
Nitrite-N (mg/l)	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
TKN (mg/l)	0.37	<0.20	<0.20	0.21	<0.20	0.22
Orthophosphate (mg/l)						
Phosphorus-T (mg/l)	0.027	<0.010	<0.010	0.02	0.023	<0.010
TSS (mg/l)	<5	<5	<5	<5	<5	<5
TDS (mg/l)	428	420	418	406	428	430
Chloride (mg/l)	26.1	24.6	24	24.2	25.5	23
Aluminum-T (µg/l)	<200		<200		<200	
Arsenic-T (µg/l)	<2.0		<2.0		<2.0	
Barium-T (µg/l)	160		168		162	
Cadmium-T (µg/l)	<0.20		<0.20		<0.20	
Calcium-T (mg/l)	89		88		81	
Chromium-T (µg/l)	<2.0		<2.0		<2.0	
Copper-T (µg/l)	<2.0		<2.0		<2.0	
Iron-T (µg/l)	195		139		140	
Lead-T (µg/l)	<2.0		<2.0		<2.0	
Magnesium-T (mg/l)	35		36		36	
Manganese-T (µg/l)	16		16		15	
Mercury-T (µg/l)	<0.20		<0.20		<0.20	
Nickel-T (µg/l)	<2.0		<2.0		<2.0	
Potassium-T (mg/l)	<2		2		2	
Selenium-T (µg/l)	<2.0		<2.0		<2.0	
Sodium-T (mg/l)	11		11		11	
Strontium-T (µg/l)	454		478		491	
Zinc-T (µg/l)	<10		<10		<10	
Hardness (mg/l CaCO3)	366		368		351	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: **MCKEE CREEK E OF DEGRAFF @ CO. RD. 31** SWDO Map # 58

River Mile: 0.52 Storet ID: H01S06 WAU 05080001-04-01

Latitude/Longitude: 40.3106 /-83.8556 Drainage Area (mi2): 17.7 County: Logan Ecoregion: ECBP USGS Quad: Bellefontaine

Date Collected	6/25/2008	7/16/2008	7/30/2008	8/6/2008	8/20/2008	9/24/2008
Time	1:30	2:00	9:50	2:20	10:10	12:30
Temp (C)	18.76	20.41		21.73	16.70	17.02
D.O. (mg/l)	10.28	9.89		9.89	9.48	9.17
D.O. (% sat)	110.4	109.8		112.7	97.6	95.1
pH (fld) SU	8.33	8.19		8.38	8.20	8.13
Sp Cond (fld)(µmhos/cm)	646.2	648.8		635	669.4	626.3
Sp Cond (lab)(µmhos/cm)	663	630	661 B	625	660	675
BOD5 (mg/l)						
CBOD20 (mg/l)						
COD (mg/l)	<10	12	<10	10	<10	<10
Ammonia-N (mg/l)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Nitrate-nitrite-N (mg/l)	1.61	1.47	1.36	1.29	1.41	1.07
Nitrite-N (mg/l)	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
TKN (mg/l)	<0.20	<0.20	<0.20	0.23	0.43	0.21
Orthophosphate (mg/l)						
Phosphorus-T (mg/l)	0.011	<0.010	<0.010	0.015	0.013	0.04
TSS (mg/l)	<5	<5	<5	<5	<5	<5
TDS (mg/l)	434	428	432	378	418	420
Chloride (mg/l)	16.6	16.1	15.9	14.6	17.1	15.5
Aluminum-T (µg/l)	<200		<200		<200	
Arsenic-T (µg/l)	<2.0		<2.0		<2.0	
Barium-T (µg/l)	132		149		135	
Cadmium-T (µg/l)	<0.20		<0.20		<0.20	
Calcium-T (mg/l)	84		87		76	
Chromium-T (µg/l)	<2.0		<2.0		<2.0	
Copper-T (µg/l)	<2.0		<2.0		<2.0	
Iron-T (µg/l)	154		175		185	
Lead-T (µg/l)	<2.0		<2.0		<2.0	
Magnesium-T (mg/l)	32		36		35	
Manganese-T (µg/l)	14		13		11	
Mercury-T (µg/l)	<0.20		<0.20		<0.20	
Nickel-T (µg/l)	<2.0		2.2		<2.0	
Potassium-T (mg/l)	<2		2		2	
Selenium-T (µg/l)	<2.0		<2.0		<2.0	
Sodium-T (mg/l)	6		7		7	
Strontium-T (µg/l)	743		844		900	
Zinc-T (µg/l)	<10		<10		<10	
Hardness (mg/l CaCO3)	342		365		334	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: LEE CREEK S OF DEGRAFF @ FRIEND RD. SWDO Map # 54

River Mile: 3.35 Storet ID: H01K04 WAU 05080001-04-02

Latitude/Longitude: 40.2683 /-83.9267 Drainage Area (mi2): 9.5 County: Logan/Champ Ecoregion: ECBP USGS Quad: De Graff

Date Collected	6/25/2008	7/16/2008	7/30/2008	8/6/2008	8/20/2008	9/24/2008
Time	12:00	12:10	11:35	12:35	1:20	12:00
Temp (C)	17.08	19.29	19.54	20.10	17.88	15.61
D.O. (mg/l)	8.52	8.55	7.74	8.06	8.46	7.29
D.O. (% sat)	88.5	92.8	84.4	89.0	89.3	73.4
pH (fld) SU	7.98	8.06	7.98	8.05	8.21	7.86
Sp Cond (fld)(µmhos/cm)	611.2	617.1	624.7	622.8	608.9	627.9
Sp Cond (lab)(µmhos/cm)	605	605	620	606	610	637
BOD5 (mg/l)						
CBOD20 (mg/l)						
COD (mg/l)	30	<10	<10	13	<10	11
Ammonia-N (mg/l)	<0.050	<0.050	0.052	<0.050	<0.050	<0.050
Nitrate-nitrite-N (mg/l)	4.51	4.69	1.06	0.72	0.13	0.1 B
Nitrite-N (mg/l)	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
TKN (mg/l)	0.35	0.53	<0.20	0.2	<0.20	0.22
Orthophosphate (mg/l)						
Phosphorus-T (mg/l)	0.031	0.84	0.032	0.055	0.028	0.024
TSS (mg/l)	<5	7	5	<5	7	<5
TDS (mg/l)	372	378	370	368	380	380
Chloride (mg/l)	16.8	18	12.9	13.3	6.6	<5.0
Aluminum-T (µg/l)	<200		<200		<200	
Arsenic-T (µg/l)	2.2		3.4		4.7	
Barium-T (µg/l)	106		130		150	
Cadmium-T (µg/l)	<0.20		<0.20		<0.20	
Calcium-T (mg/l)	80		83		76	
Chromium-T (µg/l)	<2.0		<2.0		<2.0	
Copper-T (µg/l)	<2.0		<2.0		<2.0	
Iron-T (µg/l)	463		506		457	
Lead-T (µg/l)	<2.0		<2.0		<2.0	
Magnesium-T (mg/l)	30		32		33	
Manganese-T (µg/l)	25		48		53	
Mercury-T (µg/l)	<0.20		<0.20		<0.20	
Nickel-T (µg/l)	2		2.3		<2.0	
Potassium-T (mg/l)	<2		2		<2	
Selenium-T (µg/l)	<2.0		<2.0		<2.0	
Sodium-T (mg/l)	6		6		6	
Strontium-T (µg/l)	1020		1290		1870	
Zinc-T (µg/l)	<10		<10		<10	
Hardness (mg/l CaCO3)	323		339		326	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: **GRAVES CREEK SE OF DEGRAFF @ TWP. RD. 295** SWDO Map # 55

River Mile: 0.48 Storet ID: H01K05 WAU 05080001-04-02

Latitude/Longitude: 40.2736 /-83.8932 Drainage Area (mi2): 10.9 County: Logan Ecoregion: ECBP USGS Quad: De Graff

Date Collected	6/25/2008	7/16/2008	7/30/2008	8/6/2008	8/20/2008	9/24/2008
Time	11:35	11:55	11:25	12:25	1:10	11:55
Temp (C)	15.93	18.89	17.75	18.52	17.66	14.94
D.O. (mg/l)	9.95	8.00	9.97	9.64	11.33	9.50
D.O. (% sat)	100.8	86.1	105.0	103.2	119.0	94.3
pH (fld) SU	8.15	8.09	8.14	8.17	8.36	8.15
Sp Cond (fld)(µmhos/cm)	659.3	557.8	671.3	666.9	652.9	670.7
Sp Cond (lab)(µmhos/cm)	652	547	669	656	641	685
BOD5 (mg/l)						
CBOD20 (mg/l)						
COD (mg/l)	18	19	<10	<10	<10	<10
Ammonia-N (mg/l)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Nitrate-nitrite-N (mg/l)	2.64	2.52	2.13	2.02	2.15	2.07 B
Nitrite-N (mg/l)	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
TKN (mg/l)	<0.20	0.37	<0.20	<0.20	<0.20	0.3
Orthophosphate (mg/l)						
Phosphorus-T (mg/l)	0.019	0.07	0.01	0.01	0.017	0.021
TSS (mg/l)	5	12	5	<5	<5	8
TDS (mg/l)	408	350	408	404	402	426
Chloride (mg/l)	16.9	13.1	15.5	15.9	16.6	15.5
Aluminum-T (µg/l)	<200		<200		<200	
Arsenic-T (µg/l)	<2.0		<2.0		<2.0	
Barium-T (µg/l)	139		151		151	
Cadmium-T (µg/l)	<0.20		<0.20		<0.20	
Calcium-T (mg/l)	90		91		82	
Chromium-T (µg/l)	<2.0		<2.0		<2.0	
Copper-T (µg/l)	<2.0		<2.0		<2.0	
Iron-T (µg/l)	371		310		263	
Lead-T (µg/l)	<2.0		<2.0		<2.0	
Magnesium-T (mg/l)	34		35		36	
Manganese-T (µg/l)	22		22		18	
Mercury-T (µg/l)	<0.20		<0.20		<0.20	
Nickel-T (µg/l)	<2.0		2.2		<2.0	
Potassium-T (mg/l)	2		2		2	
Selenium-T (µg/l)	<2.0		<2.0		<2.0	
Sodium-T (mg/l)	7		7		8	
Strontium-T (µg/l)	1030		1150		1270	
Zinc-T (µg/l)	<10		<10		<10	
Hardness (mg/l CaCO3)	365		371		353	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: **INDIAN CREEK NW OF QUINCY @ MOUTH** SWDO Map # 51

River Mile: 0.01 Storet ID: H01K03 WAU 05080001-04-04

Latitude/Longitude: 40.3187 /-84.0152 Drainage Area (mi2): 15.9 County: Shelby Ecoregion: ECBP USGS Quad: Port Jefferson

Date Collected	6/25/2008	7/16/2008	7/30/2008	8/6/2008	8/20/2008	9/24/2008
Time	1:00	12:50	12:15	1:15	1:20	11:15
Temp (C)	17.93	20.18	21.09	21.63	19.58	15.36
D.O. (mg/l)	9.36	8.85	8.30	8.66	8.92	7.03
D.O. (% sat)	98.9	97.8	93.4	98.5	97.4	70.3
pH (fld) SU	8.27	8.37	8.24	8.28	8.34	7.93
Sp Cond (fld)(µmhos/cm)	586.5	587.9	423.1	588	550.6	590.6
Sp Cond (lab)(µmhos/cm)	579	577	572	571	550	602
BOD5 (mg/l)						
CBOD20 (mg/l)						
COD (mg/l)	27	<10	12	25 J	<10	<10
Ammonia-N (mg/l)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Nitrate-nitrite-N (mg/l)	5.45	5.37	1.59	1.2	0.54	0.28 B
Nitrite-N (mg/l)	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
TKN (mg/l)	0.34	0.54	0.22	0.3	<0.20	0.23
Orthophosphate (mg/l)						
Phosphorus-T (mg/l)	0.025	0.044	0.016	0.034	0.021	0.014
TSS (mg/l)	<5	6	<5	<5	<5	<5
TDS (mg/l)	354	356	344	350	326	356
Chloride (mg/l)	20.2	18.4	18.4	20.6	17.6	18.4
Aluminum-T (µg/l)	<200		<200		<200	
Arsenic-T (µg/l)	<2.0		<2.0		<2.0	
Barium-T (µg/l)	86		96		95	
Cadmium-T (µg/l)	<0.20		<0.20		<0.20	
Calcium-T (mg/l)	75		72		65	
Chromium-T (µg/l)	<2.0		<2.0		<2.0	
Copper-T (µg/l)	<2.0		<2.0		<2.0	
Iron-T (µg/l)	146		75		73	
Lead-T (µg/l)	<2.0		<2.0		<2.0	
Magnesium-T (mg/l)	29		31		31	
Manganese-T (µg/l)	<10		<10		<10	
Mercury-T (µg/l)	<0.20		<0.20		<0.20	
Nickel-T (µg/l)	<2.0		<2.0		<2.0	
Potassium-T (mg/l)	<2		2		2	
Selenium-T (µg/l)	<2.0		<2.0		<2.0	
Sodium-T (mg/l)	7		8		9	
Strontium-T (µg/l)	496		642		794	
Zinc-T (µg/l)	29		<10		<10	
Hardness (mg/l CaCO3)	307		307		290	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: PLUM CREEK SE OF ANNA @ MERANDA RD. SWDO Map # 48

River Mile: 9.00 Storet ID: H02K11 WAU 05080001-04-05

Latitude/Longitude: 40.3808 /-84.1216 Drainage Area (mi2): 7.8 County: Shelby Ecoregion: ECBP USGS Quad: Jackson Center

Date Collected	6/24/2008	7/15/2008	7/29/2008	8/5/2008	8/19/2008	9/23/2008
Time	10:55	11:15	12:00	10:50	10:55	11:05
Temp (C)	19.45	21.33	23.59	22.68	22.44	17.75
D.O. (mg/l)	15.19	14.00	6.03	3.25	6.78	10.23
D.O. (% sat)	165.4	158.3	71.2	37.8	78.3	107.7
pH (fld) SU	8.22	8.09	7.82	7.78	8.13	8.17
Sp Cond (fld)(µmhos/cm)	601	610	605	564	513	668
Sp Cond (lab)(µmhos/cm)	585	609	587	551	555	671
BOD5 (mg/l)						
CBOD20 (mg/l)						
COD (mg/l)	60	14	24	36	16	23
Ammonia-N (mg/l)	<0.050	<0.050	<0.050	<0.050	<0.050	0.056
Nitrate-nitrite-N (mg/l)	3.01	4.02	<0.10	<0.10	<0.10	<0.10
Nitrite-N (mg/l)	0.052	0.039	<0.020	<0.020	<0.020	<0.020
TKN (mg/l)	0.53	0.42	0.82	0.69	0.99	1.15
Orthophosphate (mg/l)					0.04	0.053
Phosphorus-T (mg/l)	0.081	0.051	0.058	0.077	0.068	0.095
TSS (mg/l)	<5	<5	<5	<5	<5	<5
TDS (mg/l)	372	378	344	334	332	414
Chloride (mg/l)	29.5	23.3	49.9	45.5	63	82.8
Aluminum-T (µg/l)			<200		<200	
Arsenic-T (µg/l)			4		6	
Barium-T (µg/l)			54		46	
Cadmium-T (µg/l)			<0.20		<0.20	
Calcium-T (mg/l)			47		35	
Chromium-T (µg/l)			<2.0		<2.0	
Copper-T (µg/l)			<2.0		<2.0	
Iron-T (µg/l)			327		226	
Lead-T (µg/l)			<2.0		<2.0	
Magnesium-T (mg/l)			31		35	
Manganese-T (µg/l)			78		58	
Mercury-T (µg/l)			<0.20		<0.20	
Nickel-T (µg/l)			2.6		<2.0	
Potassium-T (mg/l)			3		4	
Selenium-T (µg/l)			<2.0		<2.0	
Sodium-T (mg/l)			24		32	
Strontium-T (µg/l)			706		625	
Zinc-T (µg/l)			<10		<10	
Hardness (mg/l CaCO3)			245		232	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: **PLUM CREEK N OF SIDNEY @ FORT LORAMIE-PORT JEFFERSON RD.** SWDO Map # 49

River Mile: 5.22 Storet ID: H02K10 WAU 05080001-04-05

Latitude/Longitude: 40.346 /-84.1634 Drainage Area (mi2): 14.7 County: Shelby Ecoregion: ECBP USGS Quad: Sidney

Date Collected	6/24/2008	7/15/2008	7/29/2008	8/5/2008	8/19/2008	9/23/2008
Time	10:30	10:55	12:00	10:25	10:20	10:40
Temp (C)	18.68	20.59	23.63	22.83	20.48	17.28
D.O. (mg/l)	9.42	8.84	7.40	6.41	6.67	9.30
D.O. (% sat)	101.0	98.6	87.5	74.6	74.2	97.0
pH (fld) SU	7.65	8.02	8.09	8.02	7.92	8.13
Sp Cond (fld)(µmhos/cm)	616	560	571	570	663	678
Sp Cond (lab)(µmhos/cm)	601	553	552	556	617	682
BOD5 (mg/l)						
CBOD20 (mg/l)						
COD (mg/l)	12	31	15	28	13	17
Ammonia-N (mg/l)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Nitrate-nitrite-N (mg/l)	3.35	4.19	<0.10	<0.10	<0.10	<0.10
Nitrite-N (mg/l)	0.03	0.024	<0.020	<0.020	<0.020	<0.020
TKN (mg/l)	0.46	0.57	0.76	0.57	0.91	0.96
Orthophosphate (mg/l)						
Phosphorus-T (mg/l)	0.028	0.067	0.073	0.043	0.046	0.026
TSS (mg/l)	<5	5	10	6	8	5
TDS (mg/l)	374	358	336	336	396	410
Chloride (mg/l)	36.5	22.2	51.2	54.1	70.5	75.6
Aluminum-T (µg/l)			216		<200	
Arsenic-T (µg/l)			3.5		3.8	
Barium-T (µg/l)			55		69	
Cadmium-T (µg/l)			<0.20		<0.20	
Calcium-T (mg/l)			40		44	
Chromium-T (µg/l)			<2.0		<2.0	
Copper-T (µg/l)			2.1		2.1	
Iron-T (µg/l)			570		377	
Lead-T (µg/l)			<2.0		<2.0	
Magnesium-T (mg/l)			31		35	
Manganese-T (µg/l)			89		95	
Mercury-T (µg/l)			<0.20		<0.20	
Nickel-T (µg/l)			3		2.5	
Potassium-T (mg/l)			2		4	
Selenium-T (µg/l)			<2.0		<2.0	
Sodium-T (mg/l)			25		36	
Strontium-T (µg/l)			1200		1730	
Zinc-T (µg/l)			<10		<10	
Hardness (mg/l CaCO3)			228		254	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: PLUM CREEK AT SIDNEY @ CANAL FEEDER RD. SWDO Map # 50

River Mile: 0.13 Storet ID: H02K09 WAU 05080001-04-05

Latitude/Longitude: 40.3095 /-84.1329 Drainage Area (mi2): 29 County: Shelby Ecoregion: ECBP USGS Quad: Sidney

Date Collected	6/25/2008	7/16/2008	7/30/2008	8/6/2008	8/20/2008	9/24/2008
Time	2:10	1:50	1:05	1:55	3:05	1:10
Temp (C)	18.82	22.24	21.15	22.56	20.91	18.12
D.O. (mg/l)	8.72	8.98	9.50	9.26	9.34	9.04
D.O. (% sat)	93.8	103.4	107.1	107.3	104.8	95.9
pH (fld) SU	8.13	8.25	8.25	8.27	8.22	8.05
Sp Cond (fld)(µmhos/cm)	679.4	629.2	699.3	736.9	716.3	702.8
Sp Cond (lab)(µmhos/cm)		608	704	724	698	707
BOD5 (mg/l)						
CBOD20 (mg/l)						
COD (mg/l)	15	<10	<10	16	<10	<10
Ammonia-N (mg/l)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Nitrate-nitrite-N (mg/l)	2.28	2.53	0.46	0.37	0.62	0.62 B
Nitrite-N (mg/l)	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
TKN (mg/l)	0.37	0.59	0.44	0.42	0.25	0.51
Orthophosphate (mg/l)						
Phosphorus-T (mg/l)	0.04	0.519	0.033	0.044	0.021	0.019
TSS (mg/l)	5	<5	<5	<5	11	<5
TDS (mg/l)	412	374	432	446	414	414
Chloride (mg/l)	42.8	33.1	48.5	54.4	42.8	31
Aluminum-T (µg/l)	<200		<200		<200	
Arsenic-T (µg/l)	<2.0		<2.0		<2.0	
Barium-T (µg/l)	68		77		74	
Cadmium-T (µg/l)	<0.20		<0.20		<0.20	
Calcium-T (mg/l)	77		74		70	
Chromium-T (µg/l)	<2.0		<2.0		<2.0	
Copper-T (µg/l)	<2.0		<2.0		<2.0	
Iron-T (µg/l)	330		166		105	
Lead-T (µg/l)	<2.0		<2.0		<2.0	
Magnesium-T (mg/l)	30		34		34	
Manganese-T (µg/l)	16		19		15	
Mercury-T (µg/l)	<0.20		<0.20		<0.20	
Nickel-T (µg/l)	2.1		2.2		<2.0	
Potassium-T (mg/l)	2		2		2	
Selenium-T (µg/l)	<2.0		<2.0		<2.0	
Sodium-T (mg/l)	21		25		21	
Strontium-T (µg/l)	1520		2070		2500	
Zinc-T (µg/l)	<10		<10		<10	
Hardness (mg/l CaCO3)	316		325		315	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: LORAMIE CREEK E OF BOTKINS @ BOTKINS RD. SWDO Map # 59

River Mile: 36.84 Storet ID: H02S28 WAU 05080001-05-01

Latitude/Longitude: 40.4681 /-84.1606 Drainage Area (mi2): 6.8 County: Shelby Ecoregion: ECBP USGS Quad: Botkins

Date Collected	6/24/2008	7/15/2008	7/29/2008	8/5/2008	8/19/2008	9/23/2008
Time	1:00	1:45	12:00	1:15	12:20	12:25
Temp (C)	20.71	22.59	22.03	21.83	19.71	15.43
D.O. (mg/l)	7.14	6.27	4.59	4.95	6.38	5.23
D.O. (% sat)	79.8	72.6	52.6	56.5	69.9	52.4
pH (fld) SU	7.85	7.46	7.90	7.78	8.05	8.19
Sp Cond (fld)(µmhos/cm)	740	389	807	867	881	745
Sp Cond (lab)(µmhos/cm)	715	374	798	853	809	749
BOD5 (mg/l)						
CBOD20 (mg/l)						
COD (mg/l)	17	56	12	23	32	29
Ammonia-N (mg/l)	0.054	0.05	0.143	0.185	0.055	0.068
Nitrate-nitrite-N (mg/l)	4.16	2.3	0.66	0.75	<0.10	0.1
Nitrite-N (mg/l)	0.063	<0.020	0.036	0.036	<0.020	<0.020
TKN (mg/l)	0.37	0.57	1.08	1.57	1.2	1.16
Orthophosphate (mg/l)	0.084	0.281	0.137	0.249	0.202	0.307
Phosphorus-T (mg/l)	0.039	0.328	0.233	0.341	0.311	0.471
TSS (mg/l)	25	32	21	62	31	24
TDS (mg/l)	444	278	484	538	550	460
Chloride (mg/l)	38.5	9.3	50.6	96	87	75.9
Aluminum-T (µg/l)			637		608	
Arsenic-T (µg/l)			3.8		9.8	
Barium-T (µg/l)			73		70	
Cadmium-T (µg/l)			<0.20		<0.20	
Calcium-T (mg/l)			99		93	
Chromium-T (µg/l)			<2.0		<2.0	
Copper-T (µg/l)			2.1		2.5	
Iron-T (µg/l)			913		1110	
Lead-T (µg/l)			<2.0		<2.0	
Magnesium-T (mg/l)			33		32	
Manganese-T (µg/l)			252		295	
Mercury-T (µg/l)			<0.20		<0.20	
Nickel-T (µg/l)			4.2		5.2	
Potassium-T (mg/l)			5		6	
Selenium-T (µg/l)			<2.0		<2.0	
Sodium-T (mg/l)			28		43	
Strontium-T (µg/l)			1050		1010	
Zinc-T (µg/l)			<10		<10	
Hardness (mg/l CaCO3)			383		364	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: **LORAMIE CREEK S OF BOTKINS @ LOCK TWO RD. (DST BOTKINS WWTP)** SWDO Map # 60

River Mile: 34.96 Storet ID: H02W02 WAU 05080001-05-01

Latitude/Longitude: 40.4531 /-84.1872 Drainage Area (mi2): 15.7 County: Shelby Ecoregion: ECBP USGS Quad: Botkins

Date Collected	6/24/2008	7/15/2008	7/29/2008	8/5/2008	8/19/2008	9/23/2008
Time	12:20	12:45	12:00	12:20	11:50	12:05
Temp (C)	21.82	21.92	24.23	22.05	23.08	19.99
D.O. (mg/l)	11.27	6.93	8.67	6.71	14.97	14.43
D.O. (% sat)	128.8	79.2	104.1	77.0	176.3	160.6
pH (fld) SU	8.03	7.70	7.93	7.87	8.13	8.12
Sp Cond (fld)(µmhos/cm)	1004	558	2238	778	2873	3728
Sp Cond (lab)(µmhos/cm)	965	550	2170	804	2380	3720
BOD5 (mg/l)						
CBOD20 (mg/l)						
COD (mg/l)	23	30	15	32	10	81
Ammonia-N (mg/l)	0.073	0.113	0.182	1.11	0.162	0.182
Nitrate-nitrite-N (mg/l)	2.79	2.42	1.96	2.84	1.23	1.53
Nitrite-N (mg/l)	0.045	0.037	0.128	0.143	0.09	0.114
TKN (mg/l)	<0.20	0.9	1.23	3.37	1.26	1.24
Orthophosphate (mg/l)	0.515	0.302	0.822 J	0.537	0.715	1.11
Phosphorus-T (mg/l)	0.552	0.352	0.826	0.582	0.838	1.1
TSS (mg/l)	6	28	9	22	20	7
TDS (mg/l)	616	352	1280	494	1630	2160
Chloride (mg/l)	104	46.3	444	125	658	973
Aluminum-T (µg/l)			<200		<200	
Arsenic-T (µg/l)			4		6.9	
Barium-T (µg/l)			87		84	
Cadmium-T (µg/l)			<0.20		<0.20	
Calcium-T (mg/l)			114		127	
Chromium-T (µg/l)			<2.0		<2.0	
Copper-T (µg/l)			5		7.9	
Iron-T (µg/l)			327		424	
Lead-T (µg/l)			<2.0		<2.0	
Magnesium-T (mg/l)			48		58	
Manganese-T (µg/l)			74		115	
Mercury-T (µg/l)			<0.20		<0.20	
Nickel-T (µg/l)			3.4		3	
Potassium-T (mg/l)			7		8	
Selenium-T (µg/l)			<2.0		<2.0	
Sodium-T (mg/l)			272		549	
Strontium-T (µg/l)			11500		25600	
Zinc-T (µg/l)			<10		13	
Hardness (mg/l CaCO3)			482		556	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: **LORAMIE CREEK SW OF BOTKINS @ HARDIN-WAPAKONETA RD.** SWDO Map # 61

River Mile: 30.42 Storet ID: H02S27 WAU 05080001-05-01

Latitude/Longitude: 40.415 /-84.2436 Drainage Area (mi2): 35 County: Shelby Ecoregion: ECBP USGS Quad: Botkins

Date Collected	6/24/2008	7/15/2008	7/29/2008	8/5/2008	8/19/2008	9/23/2008
Time	11:40	12:00	12:00	11:20	11:20	11:40
Temp (C)	18.94	21.28	21.59	21.86	19.51	16.97
D.O. (mg/l)	7.16	7.16	6.79	5.42	7.59	7.47
D.O. (% sat)	77.3	80.8	77.3	62.0	83.1	77.9
pH (fld) SU	7.91	7.72	7.99	7.91	7.89	7.90
Sp Cond (fld)(µmhos/cm)	826	482	1285	1358	1765	2442
Sp Cond (lab)(µmhos/cm)	802	481	1260	1380	1540	2470
BOD5 (mg/l)						
CBOD20 (mg/l)						
COD (mg/l)	15	20	12	25	15	20
Ammonia-N (mg/l)	<0.050	0.096	0.098	0.105	0.083	<0.050
Nitrate-nitrite-N (mg/l)	2.77	3.04	0.23	0.71	<0.10	0.28
Nitrite-N (mg/l)	0.025	0.033	<0.020	<0.020	<0.020	<0.020
TKN (mg/l)	<0.20	0.71	1.04	1.32	1.14	1.12
Orthophosphate (mg/l)						
Phosphorus-T (mg/l)	<0.010	0.221	0.166	0.291	0.725	0.517
TSS (mg/l)	8	32	<5	11	22	9
TDS (mg/l)	500	308	776	868	1030	1360
Chloride (mg/l)	60.5	26.1	187	225	348	533
Aluminum-T (µg/l)			<200		<200	
Arsenic-T (µg/l)			3.2		5.2	
Barium-T (µg/l)			78		84	
Cadmium-T (µg/l)			<0.20		<0.20	
Calcium-T (mg/l)			90		94	
Chromium-T (µg/l)			<2.0		<2.0	
Copper-T (µg/l)			3.8		5.5	
Iron-T (µg/l)			557		608	
Lead-T (µg/l)			<2.0		<2.0	
Magnesium-T (mg/l)			38		45	
Manganese-T (µg/l)			93		152	
Mercury-T (µg/l)			<0.20		<0.20	
Nickel-T (µg/l)			4.5		4	
Potassium-T (mg/l)			4		6	
Selenium-T (µg/l)			<2.0		<2.0	
Sodium-T (mg/l)			120		282	
Strontium-T (µg/l)			5770		12800	
Zinc-T (µg/l)			<10		<10	
Hardness (mg/l CaCO3)			381		420	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: LORAMIE CREEK DOWNSTREAM LORAMIE LAKE DAM SWDO Map # 62

River Mile: 22.10 Storet ID: H02S06 WAU 05080001-05-03

Latitude/Longitude: 40.3575 /-84.3583 Drainage Area (mi2): 78 County: Shelby Ecoregion: ECBP USGS Quad: Fort Loramie

Date Collected	6/24/2008	7/15/2008	7/29/2008	8/5/2008	8/19/2008	9/23/2008
Time	12:30	12:20	1:15	11:30	10:20	11:45
Temp (C)	28.57	24.57	30.30	22.93	20.30	19.09
D.O. (mg/l)	4.70	6.30	4.25	3.73	4.77	2.68
D.O. (% sat)	60.7	75.7	56.5	43.5	52.8	28.9
pH (fld) SU	7.64	7.89	8.05	7.74	8.00	7.60
Sp Cond (fld)(µmhos/cm)	420	278	297	325	386	472
Sp Cond (lab)(µmhos/cm)	408	281	293 B	326	361	486
BOD5 (mg/l)						
CBOD20 (mg/l)						
COD (mg/l)	25	23	15	33	42	23
Ammonia-N (mg/l)	0.338	0.082	0.269	0.507	0.102	<0.050
Nitrate-nitrite-N (mg/l)	0.91	2.48	0.24	0.24	<0.10	0.13
Nitrite-N (mg/l)	0.167	0.064	0.043	0.051	<0.020	<0.020
TKN (mg/l)	1.33	0.73	1.33	1.49	1.76	1.01
Orthophosphate (mg/l)	0.157	0.124	0.255 J	0.349	0.283	0.041
Phosphorus-T (mg/l)	0.226	0.243	0.352	0.393	0.332	0.221
TSS (mg/l)	5	44	7	7	11	15
TDS (mg/l)	260	204	176	232	244	310
Chloride (mg/l)	23.4	13.7	12.3	13.3	15.6	15.5
Aluminum-T (µg/l)	218		282		247	
Arsenic-T (µg/l)	2.4		8		10.2	
Barium-T (µg/l)	42		31		40	
Cadmium-T (µg/l)	<0.20		<0.20		<0.20	
Calcium-T (mg/l)	47		36		45	
Chromium-T (µg/l)	<2.0		<2.0		<2.0	
Copper-T (µg/l)	2.5		2		<2.0	
Iron-T (µg/l)	320		439		656	
Lead-T (µg/l)	<2.0		<2.0		<2.0	
Magnesium-T (mg/l)	16		11		16	
Manganese-T (µg/l)	80		103		344	
Mercury-T (µg/l)	<0.20		<0.20		<0.20	
Nickel-T (µg/l)	3.1		2.9		3	
Potassium-T (mg/l)	5		5		6	
Selenium-T (µg/l)	<2.0		<2.0		<2.0	
Sodium-T (mg/l)	11		7		11	
Strontium-T (µg/l)	535		389		694	
Zinc-T (µg/l)	<10		<10		<10	
Hardness (mg/l CaCO3)	183		135		178	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: **LAKE LORAMIE WWTP OUTFALL TO LORAMIE CREEK** SWDO Map # 63

River Mile: 21.10 Storet ID: H02E01 WAU 05080001-05-03

Latitude/Longitude: 40.36198 /-84.3691 Drainage Area (mi2): NA County: Shelby Ecoregion: ECBP USGS Quad: Fort Loramie

Date Collected	6/24/2008	7/15/2008	7/29/2008	8/5/2008	8/19/2008	9/23/2008
Time	11:35	11:45	1:00	11:00	10:00	11:10
Temp (C)	19.61	20.19	22.29	22.45	21.48	20.20
D.O. (mg/l)	7.77	8.09	6.30	7.14	7.46	8.13
D.O. (% sat)	85.3	89.5	72.9	82.9	85.0	90.3
pH (fld) SU	7.79	7.63	7.66	7.63	7.77	7.75
Sp Cond (fld)(µmhos/cm)	1713	1132	1884	1997	2057	2118
Sp Cond (lab)(µmhos/cm)	1670	1150	1870 B	1990	1780	2160
BOD5 (mg/l)						
CBOD20 (mg/l)			3.7			
COD (mg/l)	23	14	12	19	14	14
Ammonia-N (mg/l)	6.7	0.513	1.29	0.76	0.562	0.174
Nitrate-nitrite-N (mg/l)	1.94	10.9	27.8	28.5	32.8	34
Nitrite-N (mg/l)	0.306	0.081	0.294	0.3	0.27	0.074
TKN (mg/l)	6.78	1.54	1.24	1.28	1.64	1.32
Orthophosphate (mg/l)	2.09	2.18	3.46 J	4	3.97 PT	
Phosphorus-T (mg/l)	1.95	2.34	3.67	3.7	4.01	3.08
TSS (mg/l)	<5	6	<5	<5	<5	<5
TDS (mg/l)	1030	714	1180	1240	1310	1370
Chloride (mg/l)	193	100	220	240	274	272
Aluminum-T (µg/l)	<200		<200		<200	
Arsenic-T (µg/l)	3.9		4.1		4.7	
Barium-T (µg/l)	20		23		20	
Cadmium-T (µg/l)	<0.20		<0.20		<0.20	
Calcium-T (mg/l)	92		91		100	
Chromium-T (µg/l)	<2.0		<2.0		<2.0	
Copper-T (µg/l)	4.2		4		5.5	
Iron-T (µg/l)	201		101		69	
Lead-T (µg/l)	<2.0		<2.0		<2.0	
Magnesium-T (mg/l)	38		41		47	
Manganese-T (µg/l)	81		24		15	
Mercury-T (µg/l)	<0.20		<0.20		<0.20	
Nickel-T (µg/l)	3.5		4.1		3.5	
Potassium-T (mg/l)	10		12		15	
Selenium-T (µg/l)	<2.0		<2.0		<2.0	
Sodium-T (mg/l)	218		240		381	
Strontium-T (µg/l)	5540		6500		13100	
Zinc-T (µg/l)	13		32		37	
Hardness (mg/l CaCO3)	386		396		443	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: **LORAMIE CREEK AT FORT LORAMIE @ ST. RT. 66** SWDO Map # 64

River Mile: 20.70 Storet ID: H02W44 WAU 05080001-05-03

Latitude/Longitude: 40.3591 /-84.3739 Drainage Area (mi2): 82 County: Shelby Ecoregion: ECBP USGS Quad: Fort Loramie

Date Collected	6/24/2008	7/15/2008	7/29/2008	8/5/2008	8/19/2008	9/23/2008
Time	10:15	10:30	11:45	10:15	9:30	10:55
Temp (C)	20.22	24.25	24.72	23.25	20.63	18.56
D.O. (mg/l)	7.40	6.74	9.64	6.67	7.72	8.49
D.O. (% sat)	82.1	80.5	116.6	78.3	86.5	91.4
pH (fld) SU	8.01	7.84	8.22	7.99	8.11	8.12
Sp Cond (fld)(µmhos/cm)	1522	327	1662	890	2106	2287
Sp Cond (lab)(µmhos/cm)	1480	329	1650 B	877	1780	2320
BOD5 (mg/l)						
CBOD20 (mg/l)						
COD (mg/l)	25	27	12	19	18	23
Ammonia-N (mg/l)	0.822	0.057	0.142	0.287	0.199	<0.050
Nitrate-nitrite-N (mg/l)	11.5	2.22	19.1	3.1	20.9	15.6
Nitrite-N (mg/l)	0.263	0.068	0.166	0.053	0.285	0.09
TKN (mg/l)	2.26	0.66	1.48	1.73	1.7	1.2
Orthophosphate (mg/l)	6.1	0.106	5.55 J	2.86	4.62	3.65
Phosphorus-T (mg/l)	7.23	0.22	6.71	3.62	9.79	4.91
TSS (mg/l)	10	57	12	49	13	5
TDS (mg/l)	1050	228	1110	558	1520	1620
Chloride (mg/l)	57.5	16.8	73.2	57.6	76.2	105
Aluminum-T (µg/l)	351		238		225	
Arsenic-T (µg/l)	5.1		5.7		6	
Barium-T (µg/l)	42		34		27	
Cadmium-T (µg/l)	<0.20		<0.20		<0.20	
Calcium-T (mg/l)	132		111		175	
Chromium-T (µg/l)	<2.0		<2.0		<2.0	
Copper-T (µg/l)	4.6		4.6		5.5	
Iron-T (µg/l)	500		406		381	
Lead-T (µg/l)	<2.0		<2.0		<2.0	
Magnesium-T (mg/l)	44		41		67	
Manganese-T (µg/l)	52		38		22	
Mercury-T (µg/l)	<0.20		<0.20		<0.20	
Nickel-T (µg/l)	4.1		4.4		3.7	
Potassium-T (mg/l)	9		13		16	
Selenium-T (µg/l)	<2.0		<2.0		<2.0	
Sodium-T (mg/l)	151		220		338	
Strontium-T (µg/l)	9910		10200		27600	
Zinc-T (µg/l)	<10		<10		16	
Hardness (mg/l CaCO3)	511		446		713	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: LORAMIE CREEK AT FORT LORAMIE @ SCHLATER RD. SWDO Map # 72

River Mile: 18.82 Storet ID: H02W45 WAU 05080001-06-02

Latitude/Longitude: 40.3358 /-84.3769 Drainage Area (mi2): 148 County: Shelby Ecoregion: ECBP USGS Quad: Osgood

Date Collected	6/24/2008	7/15/2008	7/29/2008	8/5/2008	8/19/2008	9/23/2008
Time	9:45	9:50	9:45	9:10	9:00	10:25
Temp (C)	20.66	23.77	23.81	23.06	21.42	19.02
D.O. (mg/l)	8.31	6.62	4.61	5.32	5.34	9.48
D.O. (% sat)	92.8	78.4	54.8	62.4	60.7	102.9
pH (fld) SU	7.98	7.66	8.08	8.17	8.35	8.54
Sp Cond (fld)(µmhos/cm)	781	369	1718	1770	2160	2429
Sp Cond (lab)(µmhos/cm)	761	373	1720 B	1710	1800	2460
BOD5 (mg/l)						
CBOD20 (mg/l)						
COD (mg/l)	20	23	15	20	18	14
Ammonia-N (mg/l)	0.086	0.109	0.078	0.145	0.132	0.063
Nitrate-nitrite-N (mg/l)	6.01	2.83	8.11	10.1	13.5	10.1
Nitrite-N (mg/l)	0.097	0.076	0.074	0.178	0.169	0.123
TKN (mg/l)	0.65	0.84	1.43	1.62	1.42	1.24
Orthophosphate (mg/l)						
Phosphorus-T (mg/l)	0.547	0.271	1.92	2.46	2.85	2.95
TSS (mg/l)	34	57	53	33	31	116
TDS (mg/l)	522	246	1100	1180	1450	1610
Chloride (mg/l)	49.8	18.3	172	124	156	266
Aluminum-T (µg/l)	979		1350		760	
Arsenic-T (µg/l)	2.5		6.9		7.3	
Barium-T (µg/l)	61		82		56	
Cadmium-T (µg/l)	<0.20		<0.20		0.21	
Calcium-T (mg/l)	83		128		152	
Chromium-T (µg/l)	<2.0		<2.0		<2.0	
Copper-T (µg/l)	4		5.4		7.3	
Iron-T (µg/l)	1420		1970		1180	
Lead-T (µg/l)	<2.0		<2.0		<2.0	
Magnesium-T (mg/l)	31		49		64	
Manganese-T (µg/l)	58		109		75	
Mercury-T (µg/l)	<0.20		<0.20		<0.20	
Nickel-T (µg/l)	4.6		6.3		5	
Potassium-T (mg/l)	4		9		15	
Selenium-T (µg/l)	<2.0		<2.0		<2.0	
Sodium-T (mg/l)	38		185		337	
Strontium-T (µg/l)	1660		9410		19200	
Zinc-T (µg/l)	<10		11		11	
Hardness (mg/l CaCO3)	335		521		643	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: LORAMIE CREEK S OF FORT LORAMIE @ CARDO-ROMAN RD. SWDO Map # 73

River Mile: 16.51 Storet ID: H02S24 WAU 05080001-06-02

Latitude/Longitude: 40.3069 /-84.3836 Drainage Area (mi2): 152 County: Shelby Ecoregion: ECBP USGS Quad: Osgood

Date Collected	6/24/2008	7/15/2008	7/29/2008	8/5/2008	8/19/2008	9/23/2008
Time	8:45	10:00	1:15	10:00	10:05	11:00
Temp (C)	21.48	23.86	28.50	23.39	22.56	19.17
D.O. (mg/l)	5.12	6.28	12.91	6.58	10.41	7.09
D.O. (% sat)	58.1	74.4	166.8	77.7	120.7	77.2
pH (fld) SU	7.87	7.96	9.00	8.44	8.81	8.74
Sp Cond (fld)(µmhos/cm)	580.8	370.1	1094.3	1884.4	1173.2	2082.8
Sp Cond (lab)(µmhos/cm)	572	374	1090	1870	1140	2080
BOD5 (mg/l)	2.4	3.8	12	6.8	6.5	2.8
CBOD20 (mg/l)	5.9	7.4	21	14	13	7
COD (mg/l)	23	20	38 J	29	21	17
Ammonia-N (mg/l)	0.123	0.108	0.062	0.063	0.065	0.084
Nitrate-nitrite-N (mg/l)	3.75	2.9	3	3.79	3.39	4.65 B
Nitrite-N (mg/l)	0.107	0.072	0.035	0.067	0.053	0.118
TKN (mg/l)	0.72	0.66	1.06	0.95	1.13	1.53
Orthophosphate (mg/l)	0.341	0.166	1.05 J	1.05	1.22 PT	1.13
Phosphorus-T (mg/l)	0.448	0.269	2.88	1.16	1.4	1.28
TSS (mg/l)	37	93	47	59	53	29
TDS (mg/l)	378	254	692	1250	828	1420
Chloride (mg/l)	34.9	18.6	79.8	190	88.8	150
Aluminum-T (µg/l)	1040		804		1070	
Arsenic-T (µg/l)	2.5		6.6		8.3	
Barium-T (µg/l)	52		75		65	
Cadmium-T (µg/l)	<0.20		<0.20		<0.20	
Calcium-T (mg/l)	62		90		95	
Chromium-T (µg/l)	<2.0		<2.0		<2.0	
Copper-T (µg/l)	3.8		5		5.4	
Iron-T (µg/l)	1530		1120		1530	
Lead-T (µg/l)	<2.0		<2.0		<2.0	
Magnesium-T (mg/l)	22		35		39	
Manganese-T (µg/l)	59		95		67	
Mercury-T (µg/l)	<0.20		<0.20		<0.20	
Nickel-T (µg/l)	4.5		5.5		4.9	
Potassium-T (mg/l)	5		8		10	
Selenium-T (µg/l)	<2.0		<2.0		<2.0	
Sodium-T (mg/l)	30		110		137	
Strontium-T (µg/l)	1460		4770		7240	
Zinc-T (µg/l)	10		<10		12	
Hardness (mg/l CaCO3)	245		369		398	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: **LORAMIE CREEK AT NEWPORT @ ST. RT. 66** SWDO Map # 74

River Mile: 14.80 Storet ID: 201075 WAU 05080001-06-02

Latitude/Longitude: 40.2931 /-84.371 Drainage Area (mi2): 158 County: Shelby Ecoregion: ECBP USGS Quad: Fort Loramie

Date Collected	6/24/2008	7/15/2008	7/29/2008	8/5/2008	8/19/2008	9/23/2008
Time	9:30	10:30	2:00	11:30	10:40	11:15
Temp (C)	21.63	23.95	28.86	24.15	23.78	21.43
D.O. (mg/l)	5.62	6.16	12.98	5.78	9.65	12.46
D.O. (% sat)	63.9	73.1	168.9	69.1	114.7	141.6
pH (fld) SU	7.87	7.59	8.93	8.50	8.80	9.00
Sp Cond (fld)(µmhos/cm)	573.8	122.3	1216.2	1724.1	1495.1	1745.8
Sp Cond (lab)(µmhos/cm)	567	375	1210	1660	1410	1780
BOD5 (mg/l)						
CBOD20 (mg/l)						
COD (mg/l)	25	23	44	23	21	32
Ammonia-N (mg/l)	0.067	0.109	0.065	0.088	0.068	0.094
Nitrate-nitrite-N (mg/l)	3.79	3.05	2.25	3.11	4.32	0.8 B
Nitrite-N (mg/l)	0.069	0.064	0.031	0.094	0.119	0.037
TKN (mg/l)	0.87	0.87	1.51	0.9	1.25	1.95
Orthophosphate (mg/l)						
Phosphorus-T (mg/l)	0.365	0.265	0.89	0.915	1.07	1.16
TSS (mg/l)	47	87	45	29	25	19
TDS (mg/l)	384	256	780	1090	1090	1130
Chloride (mg/l)	34.2	19.2	111	149	114	212
Aluminum-T (µg/l)	858		435		379	
Arsenic-T (µg/l)	2.5		6.5		9	
Barium-T (µg/l)	50		80		88	
Cadmium-T (µg/l)	<0.20		<0.20		0.22	
Calcium-T (mg/l)	61		97		123	
Chromium-T (µg/l)	<2.0		<2.0		<2.0	
Copper-T (µg/l)	3.6		4.9		6.1	
Iron-T (µg/l)	1300		603		566	
Lead-T (µg/l)	<2.0		<2.0		<2.0	
Magnesium-T (mg/l)	21		37		53	
Manganese-T (µg/l)	55		69		54	
Mercury-T (µg/l)	<0.20		<0.20		<0.20	
Nickel-T (µg/l)	4.5		5.6		5	
Potassium-T (mg/l)	5		8		12	
Selenium-T (µg/l)	<2.0		<2.0		<2.0	
Sodium-T (mg/l)	27		119		193	
Strontium-T (µg/l)	1350		4820		11500	
Zinc-T (µg/l)	<10		<10		15	
Hardness (mg/l CaCO3)	239		395		525	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: LORAMIE CREEK SE OF FORT LORAMIE @ LORAMIE-WASHINGTON RD. SWDO Map # 75

River Mile: 7.67 Storet ID: H02S23 WAU 05080001-06-04

Latitude/Longitude: 40.2628 /-84.3011 Drainage Area (mi2): 205 County: Shelby Ecoregion: ECBP USGS Quad: Fort Loramie

Date Collected	6/24/2008	7/15/2008	7/29/2008	8/5/2008	8/19/2008	9/23/2008
Time	12:00	11:45	10:25	12:50	11:15	12:30
Temp (C)	22.23	24.36	24.26	23.43	22.62	21.60
D.O. (mg/l)	8.10	6.56	8.10	5.53	8.86	10.85
D.O. (% sat)	93.2	78.5	96.9	65.2	102.8	123.5
pH (fld) SU	8.13	7.63	8.24	8.18	8.34	8.35
Sp Cond (fld)(µmhos/cm)	605.4	376.5	772.4	892	1052	1021.5
Sp Cond (lab)(µmhos/cm)	597	381	760	882	1020	1050
BOD5 (mg/l)						
CBOD20 (mg/l)						
COD (mg/l)	20	27	12 J	16	21	<10
Ammonia-N (mg/l)	<0.050	0.075	<0.050	<0.050	<0.050	<0.050
Nitrate-nitrite-N (mg/l)	3.5	2.94	<0.10	0.11	<0.10	0.1 B
Nitrite-N (mg/l)	<0.020	0.054	<0.020	<0.020	<0.020	<0.020
TKN (mg/l)	0.48	0.79	0.61	0.29	0.9	0.53
Orthophosphate (mg/l)						
Phosphorus-T (mg/l)	0.014	0.207	0.281	0.24	0.255	0.209
TSS (mg/l)	13	76	8	15	11	6
TDS (mg/l)	384	260	470	544	710	646
Chloride (mg/l)	34.5	19.1	37.9	43.6	73.2	61
Aluminum-T (µg/l)	463		292		<200	
Arsenic-T (µg/l)	2.4		4.9		6.5	
Barium-T (µg/l)	55		79		91	
Cadmium-T (µg/l)	<0.20		<0.20		<0.20	
Calcium-T (mg/l)	67		85		98	
Chromium-T (µg/l)	<2.0		<2.0		<2.0	
Copper-T (µg/l)	3.1		2.4		2.9	
Iron-T (µg/l)	699		458		312	
Lead-T (µg/l)	<2.0		<2.0		<2.0	
Magnesium-T (mg/l)	25		34		47	
Manganese-T (µg/l)	41		132		105	
Mercury-T (µg/l)	<0.20		<0.20		<0.20	
Nickel-T (µg/l)	3.7		3.8		3.6	
Potassium-T (mg/l)	4		4		6	
Selenium-T (µg/l)	<2.0		<2.0		<2.0	
Sodium-T (mg/l)	24		34		92	
Strontium-T (µg/l)	1820		4040		8010	
Zinc-T (µg/l)	27		<10		<10	
Hardness (mg/l CaCO3)	270		352		438	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: **LORAMIE CREEK NEAR LOCKINGTON @ FESSLER-BUXTON RD.** SWDO Map # 76

River Mile: 1.87 Storet ID: 600320 WAU 05080001-06-04

Latitude/Longitude: 40.2106 /-84.2435 Drainage Area (mi2): 257 County: Shelby Ecoregion: ECBP USGS Quad: Piqua East

Date Collected	6/24/2008	7/15/2008	7/29/2008	8/5/2008	8/19/2008	9/23/2008
Time	1:15	9:00	9:30	9:15	11:45	12:45
Temp (C)	20.88	23.84	21.67	21.33	20.55	19.27
D.O. (mg/l)	7.68	6.81	7.71	6.10	7.41	8.03
D.O. (% sat)	86.1	80.8	87.8	69.0	82.6	87.3
pH (fld) SU	7.92	7.91	8.08	8.00	8.10	8.13
Sp Cond (fld)(µmhos/cm)	622.1	380.4	669.8	751.3	744.5	828.3
Sp Cond (lab)(µmhos/cm)	611	386	670	729	745	842
BOD5 (mg/l)	<2.0	4	2.2	2	<2.0	<2.0
CBOD20 (mg/l)	5.4	8.9	5.9	5.4	4	3.5
COD (mg/l)	20	23	<10	13	<10	<10
Ammonia-N (mg/l)	<0.050	0.067	<0.050	<0.050	<0.050	<0.050
Nitrate-nitrite-N (mg/l)	2.85	2.99	0.13	0.27	0.17	0.33 B
Nitrite-N (mg/l)	<0.020	0.045	<0.020	<0.020	<0.020	<0.020
TKN (mg/l)	0.57	0.78	0.26	0.2	0.65	0.39
Orthophosphate (mg/l)	0.182	0.149	0.128 J	0.131	0.1	
Phosphorus-T (mg/l)	0.268	0.276	0.177	0.201	0.142	0.109
TSS (mg/l)	12	96	16	18	10	<5
TDS (mg/l)	418	264	398	458	498	522
Chloride (mg/l)	39	20.5	34.7	36.9	42.6	38.2
Aluminum-T (µg/l)	421		294		208	
Arsenic-T (µg/l)	2.1		3.3		3.3	
Barium-T (µg/l)	62		73		80	
Cadmium-T (µg/l)	<0.20		<0.20		<0.20	
Calcium-T (mg/l)	72		77		81	
Chromium-T (µg/l)	<2.0		<2.0		<2.0	
Copper-T (µg/l)	2.5		2		<2.0	
Iron-T (µg/l)	581		452		382	
Lead-T (µg/l)	<2.0		<2.0		<2.0	
Magnesium-T (mg/l)	27		30		36	
Manganese-T (µg/l)	43		105		69	
Mercury-T (µg/l)	<0.20		<0.20		<0.20	
Nickel-T (µg/l)	3.3		3.4		2.6	
Potassium-T (mg/l)	4		4		4	
Selenium-T (µg/l)	<2.0		<2.0		<2.0	
Sodium-T (mg/l)	24		25		42	
Strontium-T (µg/l)	1950		2730		4110	
Zinc-T (µg/l)	50		<10		<10	
Hardness (mg/l CaCO3)	291		316		351	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: **MINSTER WWTP OUTFALL TO MIAMI-ERIE CANAL** SWDO Map # 65

River Mile: 1.80 Storet ID: H02E02 WAU 05080001-05-03

Latitude/Longitude: 40.38207 /-84.3837 Drainage Area (mi2): NA County: Auglaize Ecoregion: ECBP USGS Quad: New Bremen

Date Collected	6/24/2008	7/15/2008	7/29/2008	8/5/2008	8/19/2008	9/23/2008
Time	1:00	1:00	1:45	12:00	10:50	12:10
Temp (C)	25.19	25.22	25.09	23.04	22.85	21.77
D.O. (mg/l)	7.68	6.23	7.11	6.66	7.11	7.66
D.O. (% sat)	93.7	76.0	86.7	78.1	83.2	87.7
pH (fld) SU	7.80	7.84	7.92	7.83	7.86	7.90
Sp Cond (fld)(µmhos/cm)	1517	1353	2257	2024	2165	2188
Sp Cond (lab)(µmhos/cm)	1470	1360	2240 B	2030	1800	2200
BOD5 (mg/l)						
CBOD20 (mg/l)			3.7			
COD (mg/l)	33	23	15	25	15	10
Ammonia-N (mg/l)	0.297	0.158	0.216	0.467	0.494	0.217
Nitrate-nitrite-N (mg/l)	24.8	17.6	25.4	15.8	20.1	12.2
Nitrite-N (mg/l)	0.148	0.084	0.14	0.144	0.106	0.137
TKN (mg/l)	3.15	1.61	0.24	1.68	2.61	1.58
Orthophosphate (mg/l)	16.2	14.2	3.62 J	6.38	4.52	
Phosphorus-T (mg/l)	15.8	14.5	14.5	9.28	10.7	4.82
TSS (mg/l)	<5	<5	10	8	5	<5
TDS (mg/l)	984	866	1630	1510	1590	1580
Chloride (mg/l)	75	66.3	65.6	59.7	56.7	69.7
Aluminum-T (µg/l)	<200		<200		<200	
Arsenic-T (µg/l)	4.1		5.5		6.1	
Barium-T (µg/l)	<15		20		20	
Cadmium-T (µg/l)	<0.20		<0.20		<0.20	
Calcium-T (mg/l)	47		178		190	
Chromium-T (µg/l)	<2.0		<2.0		<2.0	
Copper-T (µg/l)	6.3		5.1		4.4	
Iron-T (µg/l)	143		147		128	
Lead-T (µg/l)	<2.0		<2.0		<2.0	
Magnesium-T (mg/l)	15		63		70	
Manganese-T (µg/l)	12		<10		18	
Mercury-T (µg/l)	<0.20		<0.20		<0.20	
Nickel-T (µg/l)	<2.0		4.3		3	
Potassium-T (mg/l)	14		17		15	
Selenium-T (µg/l)	<2.0		<2.0		<2.0	
Sodium-T (mg/l)	276		259		321	
Strontium-T (µg/l)	2540		18200		30200	
Zinc-T (µg/l)	28		16		20	
Hardness (mg/l CaCO3)	179		704		763	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: **MIAMI-ERIE CANAL @ CONFL WITH LORAMIE CREEK** SWDO Map # 66

River Mile: 0.10 Storet ID: H02S14 WAU 05080001-05-03

Latitude/Longitude: 40.3599 /-84.3724 Drainage Area (mi2): 4.3 County: Shelby Ecoregion: ECBP USGS Quad: Fort Loramie

Date Collected	6/24/2008	7/15/2008	7/29/2008	8/5/2008	8/19/2008	9/23/2008
Time	10:40	11:00	12:00	10:25	9:45	11:00
Temp (C)	19.70	21.00	25.58	23.27	20.31	18.19
D.O. (mg/l)	8.84	6.95	10.93	6.59	7.96	9.39
D.O. (% sat)	97.2	78.3	134.4	77.4	88.7	100.3
pH (fld) SU	8.13	7.85	8.31	7.95	8.11	8.10
Sp Cond (fld)(µmhos/cm)	1940	1391	1804	764	2059	2415
Sp Cond (lab)(µmhos/cm)	1880	1420	1760 B	764	1740	2430
BOD5 (mg/l)						
CBOD20 (mg/l)						
COD (mg/l)	23	20	<10	27	27	14
Ammonia-N (mg/l)	0.787	0.116	0.132	0.296	0.169	<0.050
Nitrate-nitrite-N (mg/l)	17	8.61	23.5	2.25	19.7	11.4
Nitrite-N (mg/l)	0.303	0.096	0.136	0.046	0.257	0.061
TKN (mg/l)	2.46	0.87	0.75	1.02	1.7	1.13
Orthophosphate (mg/l)						
Phosphorus-T (mg/l)	10.5	6.34	9.86	3.16	9.87	4.93
TSS (mg/l)	<5	16	11	64	5	<5
TDS (mg/l)	1390	944	1230	486	1490	1810
Chloride (mg/l)	71.2	46.8	68.2	53.9	63.8	79.2
Aluminum-T (µg/l)	<200		<200		<200	
Arsenic-T (µg/l)	5.9		5.6		5.8	
Barium-T (µg/l)	34		19		23	
Cadmium-T (µg/l)	<0.20		<0.20		<0.20	
Calcium-T (mg/l)	170		114		177	
Chromium-T (µg/l)	<2.0		<2.0		<2.0	
Copper-T (µg/l)	5.1		5.7		4.9	
Iron-T (µg/l)	249		203		148	
Lead-T (µg/l)	<2.0		<2.0		<2.0	
Magnesium-T (mg/l)	57		41		66	
Manganese-T (µg/l)	23		14		13	
Mercury-T (µg/l)	<0.20		<0.20		<0.20	
Nickel-T (µg/l)	3.9		3.9		3	
Potassium-T (mg/l)	12		15		15	
Selenium-T (µg/l)	<2.0		<2.0		<2.0	
Sodium-T (mg/l)	227		267		307	
Strontium-T (µg/l)	15100		9820		25800	
Zinc-T (µg/l)	<10		<10		11	
Hardness (mg/l CaCO3)	659		453		714	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: **MILE CREEK NW OF OSGOOD @ GOETTEMOELLER RD.** SWDO Map # 67

River Mile: 9.80 Storet ID: H02K07 WAU 05080001-05-02

Latitude/Longitude: 40.3611 /-84.5348 Drainage Area (mi2): 9.7 County: Mercer Ecoregion: ECBP USGS Quad: North Star

Date Collected	6/24/2008	7/15/2008	7/29/2008	8/5/2008	8/19/2008	9/23/2008
Time	3:15	3:20	4:45	3:35	1:20	2:00
Temp (C)	31.53	32.42	33.44	25.55	28.08	24.42
D.O. (mg/l)	21.71	7.72	17.57	10.52	13.94	11.31
D.O. (% sat)	295.5	106.6	247.1	129.3	179.3	136.5
pH (fld) SU	9.24	8.28	9.58	8.28	8.95	8.24
Sp Cond (fld)(µmhos/cm)	829	822	1216	1743	1954	2586
Sp Cond (lab)(µmhos/cm)	809	821	1170 B	1710	1620	2610
BOD5 (mg/l)						
CBOD20 (mg/l)						
COD (mg/l)	25	20	27	51	20	29
Ammonia-N (mg/l)	<0.050	0.283	0.065	0.077	<0.050	<0.050
Nitrate-nitrite-N (mg/l)	5.68	5.04	0.1	0.28	<0.10	<0.10
Nitrite-N (mg/l)	0.285	0.223	<0.020	0.043	<0.020	<0.020
TKN (mg/l)	1.97	1.52	1.78	1.37	1.32	1.13
Orthophosphate (mg/l)					0.994	1.82
Phosphorus-T (mg/l)	0.139	0.317	0.273	0.24	1.01	1.71
TSS (mg/l)	15	6	<5	11	5	<5
TDS (mg/l)	586	556	798	1130	1300	1860
Chloride (mg/l)	83.9	54.1	137	235	249	326
Aluminum-T (µg/l)	<200		<200		<200	
Arsenic-T (µg/l)	3.2		11.3		17.2	
Barium-T (µg/l)	47		59		81	
Cadmium-T (µg/l)	<0.20		<0.20		<0.20	
Calcium-T (mg/l)	61		75		114	
Chromium-T (µg/l)	<2.0		<2.0		<2.0	
Copper-T (µg/l)	4.7		3.6		4.3	
Iron-T (µg/l)	82		160		182	
Lead-T (µg/l)	<2.0		<2.0		<2.0	
Magnesium-T (mg/l)	39		45		72	
Manganese-T (µg/l)	15		27		98	
Mercury-T (µg/l)	<0.20		<0.20		<0.20	
Nickel-T (µg/l)	3.8		7.1		8.1	
Potassium-T (mg/l)	5		7		17	
Selenium-T (µg/l)	<2.0		<2.0		<2.0	
Sodium-T (mg/l)	57		116		193	
Strontium-T (µg/l)	1110		2510		6430	
Zinc-T (µg/l)	<10		<10		<10	
Hardness (mg/l CaCO3)	313		373		581	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: **MILE CREEK NW OF OSGOOD @ CLUNE-STUCKE RD.** SWDO Map # 68

River Mile: 8.74 Storet ID: H02K06 WAU 05080001-05-02

Latitude/Longitude: 40.3583 /-84.5151 Drainage Area (mi2): 18.5 County: Mercer Ecoregion: ECBP USGS Quad: North Star

Date Collected	6/24/2008	7/15/2008	7/29/2008	8/5/2008	8/19/2008	9/23/2008
Time	3:00	3:10	4:20	3:05	12:55	1:40
Temp (C)	28.10	29.78	36.38	25.84	26.13	25.91
D.O. (mg/l)	21.88	7.65	7.96	17.68	11.89	17.61
D.O. (% sat)	280.6	101.0	117.4	217.9	147.5	218.0
pH (fld) SU	8.97	8.30	8.08	8.75	8.30	8.73
Sp Cond (fld)(µmhos/cm)	758	773	1102	1147	1592	2092
Sp Cond (lab)(µmhos/cm)	737	770	1040 B	1140	1380	2120
BOD5 (mg/l)						
CBOD20 (mg/l)						
COD (mg/l)	20	23	30	34	13	29
Ammonia-N (mg/l)	<0.050	0.072	0.089	0.097	<0.050	<0.050
Nitrate-nitrite-N (mg/l)	6	5.09	<0.10	0.71	<0.10	<0.10
Nitrite-N (mg/l)	0.161	0.113	<0.020	<0.020	<0.020	<0.020
TKN (mg/l)	1.07	0.97	1.76	2.01	1.12	1.32
Orthophosphate (mg/l)					0.135	0.277
Phosphorus-T (mg/l)	0.056	0.331	0.291	0.406	0.225	0.348
TSS (mg/l)	12	5	127	40	12	9
TDS (mg/l)	480	522	684	792	1050	1450
Chloride (mg/l)	66.6	43	108	141	184	243
Aluminum-T (µg/l)	<200		3300		<200	
Arsenic-T (µg/l)	<2.0		11.9		9.8	
Barium-T (µg/l)	47		114		80	
Cadmium-T (µg/l)	<0.20		0.21		<0.20	
Calcium-T (mg/l)	66		88		101	
Chromium-T (µg/l)	<2.0		4		<2.0	
Copper-T (µg/l)	6.2		6.8		3.8	
Iron-T (µg/l)	63		4900		372	
Lead-T (µg/l)	<2.0		3.4		<2.0	
Magnesium-T (mg/l)	37		43		59	
Manganese-T (µg/l)	<10		794		69	
Mercury-T (µg/l)	<0.20		<0.20		<0.20	
Nickel-T (µg/l)	3.3		11		6.1	
Potassium-T (mg/l)	3		8		9	
Selenium-T (µg/l)	<2.0		<2.0		<2.0	
Sodium-T (mg/l)	43		77		148	
Strontium-T (µg/l)	778		1370		3490	
Zinc-T (µg/l)	<10		24		<10	
Hardness (mg/l CaCO3)	317		397		495	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: **MILE CREEK NE OF OSGOOD @ KREMER RD.** SWDO Map # 69

River Mile: 5.97 Storet ID: H02K05 WAU 05080001-05-02

Latitude/Longitude: 40.3582 /-84.4646 Drainage Area (mi2): 34.7 County: Mercer Ecoregion: ECBP USGS Quad: Osgood

Date Collected	6/24/2008	7/15/2008	7/29/2008	8/5/2008	8/19/2008	9/23/2008
Time	2:35	2:50	3:55	2:15	12:20	1:15
Temp (C)	28.19	29.54	32.81	24.78	24.32	22.40
D.O. (mg/l)	16.57	7.87	13.32	7.14	5.26	14.79
D.O. (% sat)	212.9	103.5	185.6	86.5	63.2	172.0
pH (fld) SU	8.69	8.08	8.80	8.07	8.79	8.58
Sp Cond (fld)(µmhos/cm)	838	828	1594	1667	1488	2950
Sp Cond (lab)(µmhos/cm)	815	828	1530 B	1580	1310	3000
BOD5 (mg/l)						
CBOD20 (mg/l)						
COD (mg/l)	23	20	18	38	22	65
Ammonia-N (mg/l)	<0.050	0.116	<0.050	2.13	0.141	<0.050
Nitrate-nitrite-N (mg/l)	5.55	5.2	<0.10	1.52	0.36	<0.10
Nitrite-N (mg/l)	0.129	0.16	<0.020	0.236	<0.020	<0.020
TKN (mg/l)	1.03	1.09	1.57	4.18	1.51	1.91
Orthophosphate (mg/l)					0.485	0.212
Phosphorus-T (mg/l)	0.065	0.733	0.386	1.88	0.647 J	0.408
TSS (mg/l)	13	16	21	44	85	45
TDS (mg/l)	532	518	1070	1020	964	1880
Chloride (mg/l)	73.6	51.1	158	278	221	545
Aluminum-T (µg/l)	245		366		1840	
Arsenic-T (µg/l)	2		8.5		12.6	
Barium-T (µg/l)	54		93		78	
Cadmium-T (µg/l)	<0.20		<0.20		<0.20	
Calcium-T (mg/l)	77		130		93	
Chromium-T (µg/l)	<2.0		<2.0		2	
Copper-T (µg/l)	4.2		4.4		7	
Iron-T (µg/l)	357		603		2940	
Lead-T (µg/l)	<2.0		<2.0		<2.0	
Magnesium-T (mg/l)	37		50		46	
Manganese-T (µg/l)	15		232		133	
Mercury-T (µg/l)	<0.20		<0.20		<0.20	
Nickel-T (µg/l)	4		7.4		8.4	
Potassium-T (mg/l)	3		8		8	
Selenium-T (µg/l)	<2.0		<2.0		<2.0	
Sodium-T (mg/l)	48		134		175	
Strontium-T (µg/l)	917		2620		2590	
Zinc-T (µg/l)	<10		<10		18	
Hardness (mg/l CaCO3)	345		531		422	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: **MILE CREEK W OF FORT LORAMIE @ ST. RT. 705** SWDO Map # 70

River Mile: 0.50 Storet ID: H02P04 WAU 05080001-05-02

Latitude/Longitude: 40.3492 /-84.3869 Drainage Area (mi2): 62.3 County: Shelby Ecoregion: ECBP USGS Quad: Osgood

Date Collected	6/24/2008	7/15/2008	7/29/2008	8/5/2008	8/19/2008	9/23/2008
Time	1:40	1:55	3:05	1:00	11:25	12:35
Temp (C)	20.75	23.14	28.30	24.10	23.48	18.55
D.O. (mg/l)	8.55	3.52	12.23	5.63	3.34	5.48
D.O. (% sat)	95.5	41.2	157.5	67.2	39.5	58.8
pH (fld) SU	7.39	7.42	8.37	7.96	7.86	7.64
Sp Cond (fld)(µmhos/cm)		538	1003	1057	1187	1151
Sp Cond (lab)(µmhos/cm)	797	545	976 B	1050	1060	1160
BOD5 (mg/l)	<2.0	<2.0	12	5.7	4.8	<2.0
CBOD20 (mg/l)	6.9	5.9	27	12	6.8	5.4
COD (mg/l)	15	27	21	33	11	26
Ammonia-N (mg/l)	<0.050	0.365	<0.050	0.207	<0.050	<0.050
Nitrate-nitrite-N (mg/l)	6.49	7.38	0.15	<0.10	<0.10	<0.10
Nitrite-N (mg/l)	0.069	0.171	<0.020	<0.020	<0.020	<0.020
TKN (mg/l)	0.57	1.66	1.88	1.64	1.29	1.05
Orthophosphate (mg/l)	0.08	0.418	0.076 J	0.209	0.154	0.067
Phosphorus-T (mg/l)	0.064	0.412	0.31	0.389	0.307	0.102
TSS (mg/l)	50	15	62	60	45	<5
TDS (mg/l)	522	400	674	734	778	754
Chloride (mg/l)	60.8	21.7	97.9	97.1	117	103
Aluminum-T (µg/l)	1470		855		470	
Arsenic-T (µg/l)	2.2		7.8		10.7	
Barium-T (µg/l)	67		85		111	
Cadmium-T (µg/l)	<0.20		<0.20		<0.20	
Calcium-T (mg/l)	85		83		99	
Chromium-T (µg/l)	<2.0		<2.0		<2.0	
Copper-T (µg/l)	5.1		3.4		3.3	
Iron-T (µg/l)	2080		1360		834	
Lead-T (µg/l)	<2.0		<2.0		<2.0	
Magnesium-T (mg/l)	37		38		46	
Manganese-T (µg/l)	61		462		1490	
Mercury-T (µg/l)	<0.20		<0.20		<0.20	
Nickel-T (µg/l)	5.7		7		5.7	
Potassium-T (mg/l)	3		6		9	
Selenium-T (µg/l)	<2.0		<2.0		<2.0	
Sodium-T (mg/l)	35		64		91	
Strontium-T (µg/l)	1110		1780		3130	
Zinc-T (µg/l)	11		<10		<10	
Hardness (mg/l CaCO3)	365		364		437	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: SPRING CREEK W OF FORT LORAMIE @ BAUMER-BRANDEWIE RD. SWDO Map # 71

River Mile: 0.37 Storet ID: H02K08 WAU 05080001-05-02

Latitude/Longitude: 40.3488 /-84.4155 Drainage Area (mi2): 8.8 County: Shelby Ecoregion: ECBP USGS Quad: Osgood

Date Collected	6/24/2008	7/15/2008	7/29/2008	8/5/2008	8/19/2008	9/23/2008
Time	2:05	2:30	3:30	1:40	11:50	12:45
Temp (C)	24.67	24.54	25.84	23.40	20.77	17.24
D.O. (mg/l)	19.37	7.52	16.36	6.33	6.28	5.61
D.O. (% sat)	233.5	90.4	201.5	74.6	70.3	58.5
pH (fld) SU	8.79	7.84	8.78	7.71	7.71	7.71
Sp Cond (fld)(µmhos/cm)	791	625	944	1304	1121	1251
Sp Cond (lab)(µmhos/cm)	764	637	898 B	1300	1020	1270
BOD5 (mg/l)						
CBOD20 (mg/l)						
COD (mg/l)	20	20	30	28	36	23
Ammonia-N (mg/l)	<0.050	0.051	<0.050	0.077	<0.050	<0.050
Nitrate-nitrite-N (mg/l)	9.46	7.35	<0.10	<0.10	<0.10	0.12
Nitrite-N (mg/l)	0.063	0.057	<0.020	<0.020	<0.020	<0.020
TKN (mg/l)	1.28	0.69	1.52	1.6	1.25	1.24
Orthophosphate (mg/l)						
Phosphorus-T (mg/l)	0.051	0.175	0.188	0.188	0.125	0.173
TSS (mg/l)	6	7	47	19	12	5
TDS (mg/l)	516	414	660	926	736	838
Chloride (mg/l)	61.5	31.1	93.2	125	114	135
Aluminum-T (µg/l)	<200		332		<200	
Arsenic-T (µg/l)	<2.0		6.3		7.7	
Barium-T (µg/l)	50		66		87	
Cadmium-T (µg/l)	<0.20		<0.20		<0.20	
Calcium-T (mg/l)	76		70		81	
Chromium-T (µg/l)	<2.0		<2.0		<2.0	
Copper-T (µg/l)	3.5		3.5		3	
Iron-T (µg/l)	188		892		578	
Lead-T (µg/l)	<2.0		<2.0		<2.0	
Magnesium-T (mg/l)	38		41		48	
Manganese-T (µg/l)	<10		245		662	
Mercury-T (µg/l)	<0.20		<0.20		<0.20	
Nickel-T (µg/l)	3.4		5.5		4.7	
Potassium-T (mg/l)	3		7		10	
Selenium-T (µg/l)	<2.0		<2.0		<2.0	
Sodium-T (mg/l)	33		62		89	
Strontium-T (µg/l)	1060		2360		3000	
Zinc-T (µg/l)	<10		<10		<10	
Hardness (mg/l CaCO3)	346		344		400	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: **NINEMILE CREEK UPST. RUSSIA @ MILLER RD.** SWDO Map # 80

River Mile: 6.38 Storet ID: H02S13 WAU 05080001-06-01

Latitude/Longitude: 40.2375 /-84.4144 Drainage Area (mi2): 3 County: Shelby Ecoregion: ECBP USGS Quad: Versailles

Date Collected	6/24/2008	7/15/2008	7/29/2008	8/5/2008	8/19/2008	9/23/2008
Time	10:15	11:00	12:30	12:10	9:30	10:05
Temp (C)	18.35	19.64	22.59	21.15	18.76	14.33
D.O. (mg/l)	10.81	8.01	5.78	3.88	5.75	4.62
D.O. (% sat)	115.2	87.6	67.0	43.7	61.8	45.4
pH (fld) SU	7.94	7.55	7.46	7.67	7.36	7.67
Sp Cond (fld)(µmhos/cm)	679.1	633.6	970.6	466.4	1047.3	1403.3
Sp Cond (lab)(µmhos/cm)	673	638	968	458	1020	1390
BOD5 (mg/l)						
CBOD20 (mg/l)						
COD (mg/l)	12	11	<10	30	12	117
Ammonia-N (mg/l)	<0.050	<0.050	0.138	0.267	0.119	<0.050
Nitrate-nitrite-N (mg/l)	6.59	5.67	0.16	1	0.55	0.13 B
Nitrite-N (mg/l)	0.108	0.048	<0.020	0.046	<0.020	<0.020
TKN (mg/l)	0.43	0.27	0.94	0.76	0.83	2.04
Orthophosphate (mg/l)						
Phosphorus-T (mg/l)	<0.010	0.036	0.082	0.111	0.063	0.837
TSS (mg/l)	<5	13	192	21	110	328
TDS (mg/l)	420	386	600	292	714	880
Chloride (mg/l)	53.8	22.7	104	44	143	262
Aluminum-T (µg/l)	<200		807		<200	
Arsenic-T (µg/l)	<2.0		4.4		3.2	
Barium-T (µg/l)	52		90		107	
Cadmium-T (µg/l)	<0.20		<0.20		<0.20	
Calcium-T (mg/l)	71		92		115	
Chromium-T (µg/l)	<2.0		<2.0		<2.0	
Copper-T (µg/l)	<2.0		2.6		3.2	
Iron-T (µg/l)	156		1480		444	
Lead-T (µg/l)	<2.0		<2.0		<2.0	
Magnesium-T (mg/l)	33		39		51	
Manganese-T (µg/l)	16		294		365	
Mercury-T (µg/l)	<0.20		<0.20		<0.20	
Nickel-T (µg/l)	2.4		6		4.7	
Potassium-T (mg/l)	<2		4		4	
Selenium-T (µg/l)	<2.0		<2.0		<2.0	
Sodium-T (mg/l)	26		56		140	
Strontium-T (µg/l)	762		1890		3870	
Zinc-T (µg/l)	<10		12		11	
Hardness (mg/l CaCO3)	313		390		497	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: **NINEMILE CREEK @ RANGE LINE RD. (DST RUSSIA WWTP)** SWDO Map # 81

River Mile: 4.18 Storet ID: H02S10 WAU 05080001-06-01

Latitude/Longitude: 40.2364 /-84.3764 Drainage Area (mi2): 11.5 County: Shelby Ecoregion: ECBP USGS Quad: Versailles

Date Collected	6/24/2008	7/15/2008	7/29/2008	8/5/2008	8/19/2008	9/23/2008
Time	11:00	11:15	12:10	12:30	8:55	10:15
Temp (C)	18.45	18.79	20.95	21.56	17.97	16.17
D.O. (mg/l)	6.37	6.84	5.54	4.89	5.73	0.95
D.O. (% sat)	68.1	73.6	62.2	55.6	60.7	9.7
pH (fld) SU	8.01	7.90	8.04	7.99	7.91	7.62
Sp Cond (fld)(µmhos/cm)	809.6	678.2	1071.9	607.9	1072.6	1256.9
Sp Cond (lab)(µmhos/cm)	799	685	1080	606	1050	1240
BOD5 (mg/l)						
CBOD20 (mg/l)						
COD (mg/l)	15	14	<10	31	15	38
Ammonia-N (mg/l)	0.051	0.074	0.082	0.225	0.08	<0.050
Nitrate-nitrite-N (mg/l)	4.74	5	<0.10	0.97	<0.10	<0.10 B
Nitrite-N (mg/l)	0.045	0.036	<0.020	0.055	<0.020	<0.020
TKN (mg/l)	0.62	0.54	0.89	0.73	0.74	1.15
Orthophosphate (mg/l)						
Phosphorus-T (mg/l)	<0.010	0.102	0.073	0.177	0.06	0.224
TSS (mg/l)	<5	8	<5	21	15	7
TDS (mg/l)	500	426	652	372	758	730
Chloride (mg/l)	90.1	39.5	136	94.9	153	176
Aluminum-T (µg/l)	205		<200		<200	
Arsenic-T (µg/l)	<2.0		2.8		2.9	
Barium-T (µg/l)	61		82		94	
Cadmium-T (µg/l)	<0.20		<0.20		<0.20	
Calcium-T (mg/l)	72		85		87	
Chromium-T (µg/l)	<2.0		<2.0		<2.0	
Copper-T (µg/l)	2.8		2.3		3.1	
Iron-T (µg/l)	298		170		268	
Lead-T (µg/l)	<2.0		<2.0		<2.0	
Magnesium-T (mg/l)	36		44		48	
Manganese-T (µg/l)	12		61		288	
Mercury-T (µg/l)	<0.20		<0.20		<0.20	
Nickel-T (µg/l)	2.6		3.7		3.6	
Potassium-T (mg/l)	2		3		4	
Selenium-T (µg/l)	<2.0		<2.0		<2.0	
Sodium-T (mg/l)	48		77		87	
Strontium-T (µg/l)	1920		4430		7090	
Zinc-T (µg/l)	<10		<10		13	
Hardness (mg/l CaCO3)	328		393		415	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: **NINEMILE CREEK NEAR MOUTH @ ROETH RD.** SWDO Map # 82

River Mile: 0.23 Storet ID: H02K03 WAU 05080001-06-01

Latitude/Longitude: 40.2542 /-84.3286 Drainage Area (mi2): 26.6 County: Shelby Ecoregion: ECBP USGS Quad: Fort Loramie

Date Collected	6/24/2008	7/15/2008	7/29/2008	8/5/2008	8/19/2008	9/23/2008
Time	11:15	11:30	11:00	12:45	11:00	11:35
Temp (C)	20.27	20.85	21.02	21.29	18.67	16.75
D.O. (mg/l)	9.43	7.39	7.72	6.52	8.80	8.07
D.O. (% sat)	104.2	82.7	86.8	73.7	94.4	83.3
pH (fld) SU	8.17	7.69	7.82	7.88	7.90	7.98
Sp Cond (fld)(µmhos/cm)		474	754.4	747.9	728.3	832.9
Sp Cond (lab)(µmhos/cm)	742	483	763	736	735	843
BOD5 (mg/l)						
CBOD20 (mg/l)						
COD (mg/l)	20	23	<10	17	15	<10
Ammonia-N (mg/l)	<0.050	0.077	0.064	0.058	0.05	<0.050
Nitrate-nitrite-N (mg/l)	2.52	3.93	0.29	0.19	0.24	0.13 B
Nitrite-N (mg/l)	<0.020	0.029	<0.020	<0.020	<0.020	<0.020
TKN (mg/l)	0.51	0.9	0.43	<0.20	0.44	0.5
Orthophosphate (mg/l)						
Phosphorus-T (mg/l)	0.068	0.148	0.068	0.057	0.052	0.057
TSS (mg/l)	7	17	<5	<5	<5	<5
TDS (mg/l)	482	326	472	446	478	492
Chloride (mg/l)	50.2	19.6	39	36.8	46.4	51.9
Aluminum-T (µg/l)	300		<200		<200	
Arsenic-T (µg/l)	2.7		3.8		3.9	
Barium-T (µg/l)	95		115		129	
Cadmium-T (µg/l)	<0.20		<0.20		<0.20	
Calcium-T (mg/l)	83		86		86	
Chromium-T (µg/l)	<2.0		<2.0		<2.0	
Copper-T (µg/l)	2.2		<2.0		<2.0	
Iron-T (µg/l)	591		247		230	
Lead-T (µg/l)	<2.0		<2.0		<2.0	
Magnesium-T (mg/l)	37		37		40	
Manganese-T (µg/l)	40		58		53	
Mercury-T (µg/l)	<0.20		<0.20		<0.20	
Nickel-T (µg/l)	3		3.2		2.1	
Potassium-T (mg/l)	3		3		3	
Selenium-T (µg/l)	<2.0		<2.0		<2.0	
Sodium-T (mg/l)	30		22		29	
Strontium-T (µg/l)	2480		3150		3920	
Zinc-T (µg/l)	<10		<10		<10	
Hardness (mg/l CaCO3)	360		367		379	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: **TURTLE CREEK N OF HARDIN @ MASON RD.** SWDO Map # 77

River Mile: 8.42 Storet ID: H02K02 WAU 05080001-06-03

Latitude/Longitude: 40.33 /-84.2534 Drainage Area (mi2): 8.4 County: Shelby Ecoregion: ECBP USGS Quad: Fort Loramie

Date Collected	6/24/2008	7/15/2008	7/29/2008	8/5/2008	8/19/2008
Time	10:00	10:30	12:00	10:00	9:55
Temp (C)	19.13	19.83	22.63	22.37	20.37
D.O. (mg/l)	4.71	6.94	10.87	6.75	4.69
D.O. (% sat)	51.0	76.1	126.1	77.8	52.1
pH (fld) SU	7.77	7.78	8.16	8.19	7.84
Sp Cond (fld)(µmhos/cm)	721	534	731	612	724
Sp Cond (lab)(µmhos/cm)	673	531	722	601	672
BOD5 (mg/l)					
CBOD20 (mg/l)					
COD (mg/l)	33	17	15	31	20
Ammonia-N (mg/l)	0.543	0.055	<0.050	<0.050	<0.050
Nitrate-nitrite-N (mg/l)	9.8	7.68	<0.10	<0.10	<0.10
Nitrite-N (mg/l)	1.07	0.06	<0.020	<0.020	<0.020
TKN (mg/l)	2.51	0.88	0.99	0.91	1.11
Orthophosphate (mg/l)					
Phosphorus-T (mg/l)	0.337	0.196	0.053	0.039	0.229
TSS (mg/l)	5	9	5	<5	<5
TDS (mg/l)	486	344	454	384	436
Chloride (mg/l)	55.5	25.1	84.3	79	94
Aluminum-T (µg/l)			<200		<200
Arsenic-T (µg/l)			3.1		8.2
Barium-T (µg/l)			46		35
Cadmium-T (µg/l)			<0.20		<0.20
Calcium-T (mg/l)			56		49
Chromium-T (µg/l)			<2.0		<2.0
Copper-T (µg/l)			3		<2.0
Iron-T (µg/l)			93		89
Lead-T (µg/l)			<2.0		<2.0
Magnesium-T (mg/l)			29		30
Manganese-T (µg/l)			42		421
Mercury-T (µg/l)			<0.20		<0.20
Nickel-T (µg/l)			3.6		3.7
Potassium-T (mg/l)			4		7
Selenium-T (µg/l)			<2.0		<2.0
Sodium-T (mg/l)			45		51
Strontium-T (µg/l)			937		783
Zinc-T (µg/l)			<10		<10
Hardness (mg/l CaCO3)			259		246

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: **TURTLE CREEK N OF HARDIN @ RUSSELL RD.** SWDO Map # 78

River Mile: 5.66 Storet ID: H02K01 WAU 05080001-06-03

Latitude/Longitude: 40.3009 /-84.2551 Drainage Area (mi2): 17.3 County: Shelby Ecoregion: ECBP USGS Quad: Fort Loramie

Date Collected	6/24/2008	7/15/2008	7/29/2008	8/5/2008	8/19/2008	9/23/2008
Time	9:20	9:45	12:00	9:25	9:20	9:55
Temp (C)	17.58	19.41	21.12	22.04	19.31	17.10
D.O. (mg/l)	5.75	7.46	6.10	8.33	7.12	4.25
D.O. (% sat)	60.4	81.2	68.7	95.5	77.4	44.2
pH (fld) SU	7.80	7.85	8.05	8.10	8.14	8.04
Sp Cond (fld)(µmhos/cm)	752	521	736	660	665	637
Sp Cond (lab)(µmhos/cm)	720	476	717	655	622	683
BOD5 (mg/l)						
CBOD20 (mg/l)						
COD (mg/l)	33	27	<10	19	<10	17
Ammonia-N (mg/l)	1.8	<0.050	<0.050	0.076	<0.050	0.114
Nitrate-nitrite-N (mg/l)	11.1	6.28	<0.10	<0.10	<0.10	0.11
Nitrite-N (mg/l)	1.06	0.028	<0.020	<0.020	<0.020	<0.020
TKN (mg/l)	3.56	0.69	0.3	0.35	0.76	0.84
Orthophosphate (mg/l)						
Phosphorus-T (mg/l)	0.018	0.213	0.101	0.134	0.129	0.288
TSS (mg/l)	10	17	15	18	19	13
TDS (mg/l)	496	350	438	396	380	354
Chloride (mg/l)	49.1	21.3	39.9	28.4	26.5	26
Aluminum-T (µg/l)			333		420	
Arsenic-T (µg/l)			2.8		4.5	
Barium-T (µg/l)			63		62	
Cadmium-T (µg/l)			<0.20		<0.20	
Calcium-T (mg/l)			80		68	
Chromium-T (µg/l)			<2.0		<2.0	
Copper-T (µg/l)			2.1		<2.0	
Iron-T (µg/l)			478		668	
Lead-T (µg/l)			<2.0		<2.0	
Magnesium-T (mg/l)			36		34	
Manganese-T (µg/l)			89		218	
Mercury-T (µg/l)			<0.20		<0.20	
Nickel-T (µg/l)			3.7		3.7	
Potassium-T (mg/l)			4		4	
Selenium-T (µg/l)			<2.0		<2.0	
Sodium-T (mg/l)			23		19	
Strontium-T (µg/l)			4560		4440	
Zinc-T (µg/l)			<10		<10	
Hardness (mg/l CaCO3)			348		310	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-1 Upper Great Miami River Watershed Inorganic Water Chemistry Sampling Results (2008)

Site Location: **TURTLE CREEK N OF LOCKINGTON @ STANGEL RD.** SWDO Map # 79

River Mile: 0.43 Storet ID: H02P10 WAU 05080001-06-03

Latitude/Longitude: 40.2358 /-84.2483 Drainage Area (mi2): 35.9 County: Shelby Ecoregion: ECBP USGS Quad: Piqua East

Date Collected	6/24/2008	7/15/2008	7/29/2008	8/5/2008	8/19/2008	9/23/2008
Time	1:45	12:35	9:45	1:10	12:00	1:20
Temp (C)	19.02	20.68	21.04	21.43	19.55	16.04
D.O. (mg/l)	10.33	8.19	6.71	6.49	8.64	10.03
D.O. (% sat)	111.6	91.4	75.4	73.6	94.3	101.9
pH (fld) SU	8.02	7.78	7.99	8.04	8.13	8.05
Sp Cond (fld)(µmhos/cm)	681.7	514.4	679.3	643.1	623.3	674
Sp Cond (lab)(µmhos/cm)	676	520	695	641	631	691
BOD5 (mg/l)						
CBOD20 (mg/l)						
COD (mg/l)	17	20	<10	10	<10	<10
Ammonia-N (mg/l)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Nitrate-nitrite-N (mg/l)	3.08	5.29	0.88	1	1.22	1.2 B
Nitrite-N (mg/l)	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
TKN (mg/l)	0.33	0.75	0.23	<0.20	0.33	<0.20
Orthophosphate (mg/l)						
Phosphorus-T (mg/l)	0.012	0.191	0.024	0.027	0.011	<0.010
TSS (mg/l)	6	14	<5	<5	<5	7
TDS (mg/l)	424	364	422	402	428	398
Chloride (mg/l)	35.1	20.8	28.7	25.5	29.5	19.4
Aluminum-T (µg/l)	<200		<200		<200	
Arsenic-T (µg/l)	<2.0		<2.0		<2.0	
Barium-T (µg/l)	78		88		87	
Cadmium-T (µg/l)	<0.20		<0.20		<0.20	
Calcium-T (mg/l)	82		81		78	
Chromium-T (µg/l)	<2.0		<2.0		<2.0	
Copper-T (µg/l)	2.3		<2.0		<2.0	
Iron-T (µg/l)	303		127		76	
Lead-T (µg/l)	<2.0		<2.0		<2.0	
Magnesium-T (mg/l)	33		36		37	
Manganese-T (µg/l)	19		17		10	
Mercury-T (µg/l)	<0.20		<0.20		<0.20	
Nickel-T (µg/l)	2.7		2.7		<2.0	
Potassium-T (mg/l)	3		3		3	
Selenium-T (µg/l)	<2.0		<2.0		<2.0	
Sodium-T (mg/l)	18		16		15	
Strontium-T (µg/l)	2350		2700		2480	
Zinc-T (µg/l)	16		<10		<10	
Hardness (mg/l CaCO3)	341		351		347	

B - Result estimated, analyte also detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time

RC - Result rejected due to poor correlation with co-analyte (such as TDS vs conductivity)

Appendix Table A-2. Water sampling results (µg/l) for volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), pesticides, and polychlorinated biphenyls (PCBs) from the Upper Great Miami River watershed, 2008. (Values above the detection limit are highlighted.)

Stream	Great Miami R	Great Miami R	Indian Lake WWTP	Indian Lake WWTP	Great Miami R	Great Miami R	Great Miami R	Great Miami R	Great Miami R
River Mile	158.2	158.2	158.05 *a*	158.05 *a*	157.22	157.22	146.19	146.19	143.2
Date Sampled	07/17/08	08/07/08	07/17/08	08/07/08	07/17/08	08/07/08	07/17/08	08/07/08	07/16/08
Semivolatile Organic Compounds (USEPA Method 625)									
Acenaphthene	<5.2	<5.1	<5.2	<5.2	<5.2	<5.2	<5.3	<5.2	<5.4
Acenaphthylene	<5.2	<5.1	<5.2	<5.2	<5.2	<5.2	<5.3	<5.2	<5.4
Anthracene	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
Benzo[a]anthracene	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
Benzo[a]pyrene	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
Benzo[b]fluoranthene	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
Benzo[g,h,i]perylene	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
Benzo[k]fluoranthene	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
bis(2-Chloroethoxy)methane	<5.2	<5.1	<5.2	<5.2	<5.2	<5.2	<5.3	<5.2	<5.4
bis(2-Chloroethyl)ether	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
bis(2-Chloroisopropyl)ether	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
bis(2-Ethylhexyl)phthalate	<10.4	<10.3	<10.4	<10.3	<10.3	<10.4	<10.5	<10.5	<10.7
4-Bromophenyl-phenylether	<5.2	<5.1	<5.2	<5.2	<5.2	<5.2	<5.3	<5.2	<5.4
Butylbenzylphthalate	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
4-Chloro-3-methylphenol	<10.4	<10.3	<10.4	<10.3	<10.3	<10.4	<10.5	<10.5	<10.7
2-Chloronaphthalene	<5.2	<5.1	<5.2	<5.2	<5.2	<5.2	<5.3	<5.2	<5.4
2-Chlorophenol	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
4-Chlorophenyl-phenylether	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
Chrysene	<2.1 UJ	<2.1	<2.1 UJ	<2.1	<2.1 UJ	<2.1	<2.1 UJ	<2.1	<2.1 UJ
Di-n-butylphthalate	<5.2	<5.1	<5.2	<5.2	<5.2	<5.2	<5.3	<5.2	<5.4
Di-n-octylphthalate	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
Dibenz[a,h]anthracene	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
1,3-Dichlorobenzene	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
1,4-Dichlorobenzene	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
1,2-Dichlorobenzene	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
2,4-Dichlorophenol	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
Diethylphthalate	<5.2	10.3	<5.2	<5.2	<5.2	<5.2	<5.3	<5.2	<5.4
2,4-Dimethylphenol	<10.4	<10.3	<10.4	<10.3	<10.3	<10.4	<10.5	<10.5	<10.7
Dimethylphthalate	<5.2	<5.1	<5.2	<5.2	<5.2	<5.2	<5.3	<5.2	<5.4
4,6-Dinitro-2-methylphenol	<5.2	<5.1	<5.2	<5.2	<5.2	<5.2	<5.3	<5.2	<5.4
2,4-Dinitrophenol	<20.8	<20.5	<20.7	<20.6	<20.6	<20.8	<21.1	<20.9	<21.4
2,6-Dinitrotoluene	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
2,4-Dinitrotoluene	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
Fluoranthene	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
Fluorene	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
Hexachlorobenzene	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
Hexachlorobutadiene	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
Hexachlorocyclopentadiene	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
Hexachloroethane	<5.2	<5.1	<5.2	<5.2	<5.2	<5.2	<5.3	<5.2	<5.4
Indeno[1,2,3-cd]pyrene	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
Isophorone	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
N-Nitroso-di-n-propylamine	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1 UJ
N-Nitrosodiphenylamine	<5.2	<5.1	<5.2	<5.2	<5.2	<5.2	<5.3	<5.2	<5.4
Naphthalene	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
Nitrobenzene	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
2-Nitrophenol	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
4-Nitrophenol	<20.8	<20.5	<20.7	<20.6	<20.6	<20.8	<21.1	<20.9	<21.4
Pentachlorophenol	<10.4	<10.3	<10.4	<10.3	<10.3	<10.4	<10.5	<10.5	<10.7
Phenanthrene	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
Phenol	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
Pyrene	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
1,2,4-Trichlorobenzene	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
2,4,6-Trichlorophenol	<5.2	<5.1	<5.2	<5.2	<5.2	<5.2	<5.3	<5.2	<5.4

Appendix Table A-2. Continued.

Stream	Great Miami R	Q-DeGraff WWTP	Q-DeGraff WWTP	Great Miami R	Great Miami R	North Fk GMR	North Fk GMR	South Fk GMR	South Fk GMR
River Mile	143.2	143.1 *b*	143.1 *b*	129.99	129.99	6.31	6.31	3.95	3.95
Date Sampled	08/06/08	07/16/08	08/06/08	07/16/08	08/06/08	07/16/08	08/06/08	07/16/08	08/06/08
Semivolatile Organic Compounds (USEPA Method 625)									
Acenaphthene	<5.3	<5.2	<5.5	<5.2	<5.3	<5.2	<5.3	<5.1	<5.3
Acenaphthylene	<5.3	<5.2	<5.5	<5.2	<5.3	<5.2	<5.3	<5.1	<5.3
Anthracene	<2.1	<2.1	<2.2	<2.1	<2.1	<2.1	<2.1	<2.0	<2.1
Benzo[a]anthracene	<2.1	<2.1	<2.2	<2.1	<2.1	<2.1	<2.1	<2.0	<2.1
Benzo[a]pyrene	<2.1	<2.1	<2.2	<2.1	<2.1	<2.1	<2.1	<2.0	<2.1
Benzo[b]fluoranthene	<2.1	<2.1	<2.2	<2.1	<2.1	<2.1	<2.1	<2.0	<2.1
Benzo[g,h,i]perylene	<2.1	<2.1	<2.2	<2.1	<2.1	<2.1	<2.1	<2.0	<2.1
Benzo[k]fluoranthene	<2.1	<2.1	<2.2	<2.1	<2.1	<2.1	<2.1	<2.0	<2.1
bis(2-Chloroethoxy)methane	<5.3	<5.2	<5.5	<5.2	<5.3	<5.2	<5.3	<5.1	<5.3
bis(2-Chloroethyl)ether	<2.1	<2.1	<2.2	<2.1	<2.1	<2.1	<2.1	<2.0	<2.1
bis(2-Chloroisopropyl)ether	<2.1	<2.1	<2.2	<2.1	<2.1	<2.1	<2.1	<2.0	<2.1
bis(2-Ethylhexyl)phthalate	<10.5	<10.4	<11.0	<10.4	33.1	<10.4	<10.5	<10.2	<10.5
4-Bromophenyl-phenylether	<5.3	<5.2	<5.5	<5.2	<5.3	<5.2	<5.3	<5.1	<5.3
Butylbenzylphthalate	<2.1	<2.1	<2.2	<2.1	<2.1	<2.1	<2.1	<2.0	<2.1
4-Chloro-3-methylphenol	<10.5	<10.4 UJ	<11.0	<10.4	<10.5	<10.4	<10.5	<10.2	<10.5
2-Chloronaphthalene	<5.3	<5.2	<5.5	<5.2	<5.3	<5.2	<5.3	<5.1	<5.3
2-Chlorophenol	<2.1	<2.1	<2.2	<2.1	<2.1	<2.1	<2.1	<2.0	<2.1
4-Chlorophenyl-phenylether	<2.1	<2.1	<2.2	<2.1	<2.1	<2.1	<2.1	<2.0	<2.1
Chrysene	<2.1	<2.1	<2.2	<2.1 UJ	<2.1	<2.1 UJ	<2.1	<2.0 UJ	<2.1
Di-n-butylphthalate	<5.3	<5.2	<5.5	<5.2	<5.3	<5.2	<5.3	<5.1	<5.3
Di-n-octylphthalate	<2.1	<2.1	<2.2	<2.1	<2.1	<2.1	<2.1	<2.0	<2.1
Dibenz[a,h]anthracene	<2.1	<2.1	<2.2	<2.1	<2.1	<2.1	<2.1	<2.0	<2.1
1,3-Dichlorobenzene	<2.1	<2.1	<2.2	<2.1	<2.1	<2.1	<2.1	<2.0	<2.1
1,4-Dichlorobenzene	<2.1	<2.1	<2.2	<2.1	<2.1	<2.1	<2.1	<2.0	<2.1
1,2-Dichlorobenzene	<2.1	<2.1	<2.2	<2.1	<2.1	<2.1	<2.1	<2.0	<2.1
2,4-Dichlorophenol	<2.1	<2.1	<2.2	<2.1	<2.1	<2.1	<2.1	<2.0	<2.1
Diethylphthalate	<5.3	<5.2 UJ	<5.5	<5.2	<5.3	<5.2	<5.3	<5.1	<5.3
2,4-Dimethylphenol	<10.5	<10.4	<11.0	<10.4	<10.5	<10.4	<10.5	<10.2	<10.5
Dimethylphthalate	<5.3	<5.2	<5.5	<5.2	<5.3	<5.2	<5.3	<5.1	<5.3
4,6-Dinitro-2-methylphenol	<5.3	<5.2	<5.5	<5.2	<5.3	<5.2	<5.3	<5.1	<5.3
2,4-Dinitrophenol	<21.1	<20.8	<22.0	<20.7	<21.1	<20.8	<21.1	<20.4	<21.1
2,6-Dinitrotoluene	<2.1	<2.1	<2.2	<2.1	<2.1	<2.1	<2.1	<2.0	<2.1
2,4-Dinitrotoluene	<2.1	<2.1	<2.2	<2.1	<2.1	<2.1	<2.1	<2.0	<2.1
Fluoranthene	<2.1	<2.1	<2.2	<2.1	<2.1	<2.1	<2.1	<2.0	<2.1
Fluorene	<2.1	<2.1	<2.2	<2.1	<2.1	<2.1	<2.1	<2.0	<2.1
Hexachlorobenzene	<2.1	<2.1	<2.2	<2.1	<2.1	<2.1	<2.1	<2.0	<2.1
Hexachlorobutadiene	<2.1	<2.1	<2.2	<2.1	<2.1	<2.1	<2.1	<2.0	<2.1
Hexachlorocyclopentadiene	<2.1	<2.1	<2.2	<2.1	<2.1	<2.1	<2.1	<2.0	<2.1
Hexachloroethane	<5.3	<5.2	<5.5	<5.2	<5.3	<5.2	<5.3	<5.1	<5.3
Indeno[1,2,3-cd]pyrene	<2.1	<2.1	<2.2	<2.1	<2.1	<2.1	<2.1	<2.0	<2.1
Isophorone	<2.1	<2.1	<2.2	<2.1	<2.1	<2.1	<2.1	<2.0	<2.1
N-Nitroso-di-n-propylamine	<2.1	<2.1	<2.2	<2.1 UJ	<2.1	<2.1 UJ	<2.1	<2.0 UJ	<2.1
N-Nitrosodiphenylamine	<5.3	<5.2	<5.5	<5.2	<5.3	<5.2	<5.3	<5.1	<5.3
Naphthalene	<2.1	<2.1	<2.2	<2.1	<2.1	<2.1	<2.1	<2.0	<2.1
Nitrobenzene	<2.1	<2.1	<2.2	<2.1	<2.1	<2.1	<2.1	<2.0	<2.1
2-Nitrophenol	<2.1	<2.1	<2.2	<2.1	<2.1	<2.1	<2.1	<2.0	<2.1
4-Nitrophenol	<21.1	<20.8	<22.0	<20.7	<21.1	<20.8	<21.1	<20.4	<21.1
Pentachlorophenol	<10.5	<10.4	<11.0	<10.4	<10.5	<10.4	<10.5	<10.2	<10.5
Phenanthrene	<2.1	<2.1	<2.2	<2.1	<2.1	<2.1	<2.1	<2.0	<2.1
Phenol	<2.1	<2.1	<2.2	<2.1	<2.1	<2.1	<2.1	<2.0	<2.1
Pyrene	<2.1	<2.1	<2.2	<2.1	<2.1	<2.1	<2.1	<2.0	<2.1
1,2,4-Trichlorobenzene	<2.1	<2.1	<2.2	<2.1	<2.1	<2.1	<2.1	<2.0	<2.1
2,4,6-Trichlorophenol	<5.3	<5.2 UJ	<5.5	<5.2	<5.3	<5.2	<5.3	<5.1	<5.3

Appendix Table A-2. Continued.

Stream	Van Horn Creek	Van Horn Creek	Muchinippi Creek	Muchinippi Creek	Bokengehala Creek	Bokengehala Creek	Blue Jacket Creek	Blue Jacket Creek	Bellef'taine WWTP
River Mile	0.97	0.97	0.32	0.32	7.88	1.13	5.39	5.39	0.5 *c*
Date Sampled	07/17/08	08/07/08	07/17/08	08/07/08	08/06/08	07/16/08	07/16/08	08/06/08	07/16/08
Semivolatile Organic Compounds (USEPA Method 625)									
Acenaphthene	<5.3	<5.2	<5.1	<5.2	<5.3	<5.1	<5.1	<5.2	<5.1
Acenaphthylene	<5.3	<5.2	<5.1	<5.2	<5.3	<5.1	<5.1	<5.2	<5.1
Anthracene	<2.1	<2.1	<2.1	<2.1	<2.1	<2.0	<2.0	<2.1	<2.0
Benzo[a]anthracene	<2.1	<2.1	<2.1	<2.1	<2.1	<2.0	<2.0	<2.1	<2.0
Benzo[a]pyrene	<2.1	<2.1	<2.1	<2.1	<2.1	<2.0	<2.0	<2.1	<2.0
Benzo[b]fluoranthene	<2.1	<2.1	<2.1	<2.1	<2.1	<2.0	<2.0	<2.1	<2.0
Benzo[g,h,i]perylene	<2.1	<2.1	<2.1	<2.1	<2.1	<2.0	<2.0	<2.1	<2.0
Benzo[k]fluoranthene	<2.1	<2.1	<2.1	<2.1	<2.1	<2.0	<2.0	<2.1	<2.0
bis(2-Chloroethoxy)methane	<5.3	<5.2	<5.1	<5.2	<5.3	<5.1	<5.1	<5.2	<5.1
bis(2-Chloroethyl)ether	<2.1	<2.1	<2.1	<2.1	<2.1	<2.0	<2.0	<2.1	<2.0
bis(2-Chloroisopropyl)ether	<2.1	<2.1	<2.1	<2.1	<2.1	<2.0	<2.0	<2.1	<2.0
bis(2-Ethylhexyl)phthalate	<10.5	<10.4	<10.3	<10.4	<10.5	<10.2 UJ	<10.2	<10.5	<10.2
4-Bromophenyl-phenylether	<5.3	<5.2	<5.1	<5.2	<5.3	<5.1	<5.1	<5.2	<5.1
Butylbenzylphthalate	<2.1	<2.1	<2.1	<2.1	<2.1	<2.0	<2.0	<2.1	<2.0
4-Chloro-3-methylphenol	<10.5	<10.4	<10.3	<10.4	<10.5	<10.2	<10.2	<10.5	<10.2
2-Chloronaphthalene	<5.3	<5.2	<5.1	<5.2	<5.3	<5.1	<5.1	<5.2	<5.1
2-Chlorophenol	<2.1	<2.1	<2.1	<2.1	<2.1	<2.0	<2.0	<2.1	<2.0
4-Chlorophenyl-phenylether	<2.1	<2.1	<2.1	<2.1	<2.1	<2.0	<2.0	<2.1	<2.0
Chrysene	<2.1 UJ	<2.1	<2.1 UJ	<2.1	<2.1	<2.0	<2.0 UJ	<2.1	<2.0 UJ
Di-n-butylphthalate	<5.3	<5.2	<5.1	<5.2	<5.3	<5.1	<5.1	<5.2	<5.1
Di-n-octylphthalate	<2.1	<2.1	<2.1	<2.1	<2.1	<2.0	<2.0	<2.1	<2.0
Dibenz[a,h]anthracene	<2.1	<2.1	<2.1	<2.1	<2.1	<2.0	<2.0	<2.1	<2.0
1,3-Dichlorobenzene	<2.1	<2.1	<2.1	<2.1	<2.1	<2.0	<2.0	<2.1	<2.0
1,4-Dichlorobenzene	<2.1	<2.1	<2.1	<2.1	<2.1	<2.0	<2.0	<2.1	<2.0
1,2-Dichlorobenzene	<2.1	<2.1	<2.1	<2.1	<2.1	<2.0	<2.0	<2.1	<2.0
2,4-Dichlorophenol	<2.1	<2.1	<2.1	<2.1	<2.1	<2.0	<2.0	<2.1	<2.0
Diethylphthalate	<5.3	<5.2	<5.1	<5.2	<5.3	6 J	<5.1	<5.2	<5.1
2,4-Dimethylphenol	<10.5	<10.4	<10.3	<10.4	<10.5	<10.2	<10.2	<10.5	<10.2
Dimethylphthalate	<5.3	<5.2	<5.1	<5.2	<5.3	<5.1	<5.1	<5.2	<5.1
4,6-Dinitro-2-methylphenol	<5.3	<5.2	<5.1	<5.2	<5.3	<5.1	<5.1	<5.2	<5.1
2,4-Dinitrophenol	<21.1	<20.8	<20.5	<20.7	<21.1	<20.4	<20.4	<20.9	<20.4
2,6-Dinitrotoluene	<2.1	<2.1	<2.1	<2.1	<2.1	<2.0	<2.0	<2.1	<2.0
2,4-Dinitrotoluene	<2.1	<2.1	<2.1	<2.1	<2.1	<2.0	<2.0	<2.1	<2.0
Fluoranthene	<2.1	<2.1	<2.1	<2.1	<2.1	<2.0	<2.0	<2.1	<2.0
Fluorene	<2.1	<2.1	<2.1	<2.1	<2.1	<2.0	<2.0	<2.1	<2.0
Hexachlorobenzene	<2.1	<2.1	<2.1	<2.1	<2.1	<2.0	<2.0	<2.1	<2.0
Hexachlorobutadiene	<2.1	<2.1	<2.1	<2.1	<2.1	<2.0	<2.0	<2.1	<2.0
Hexachlorocyclopentadiene	<2.1	<2.1	<2.1	<2.1	<2.1	<2.0	<2.0	<2.1	<2.0
Hexachloroethane	<5.3	<5.2	<5.1	<5.2	<5.3	<5.1	<5.1	<5.2	<5.1
Indeno[1,2,3-cd]pyrene	<2.1	<2.1	<2.1	<2.1	<2.1	<2.0	<2.0	<2.1	<2.0
Isophorone	<2.1	<2.1	<2.1	<2.1	<2.1	<2.0	<2.0	<2.1	<2.0
N-Nitroso-di-n-propylamine	<2.1	<2.1	<2.1	<2.1	<2.1	<2.0	<2.0 UJ	<2.1	<2.0 UJ
N-Nitrosodiphenylamine	<5.3	<5.2	<5.1	<5.2	<5.3	<5.1	<5.1	<5.2	<5.1
Naphthalene	<2.1	<2.1	<2.1	<2.1	<2.1	<2.0	<2.0	<2.1	<2.0
Nitrobenzene	<2.1	<2.1	<2.1	<2.1	<2.1	<2.0	<2.0	<2.1	<2.0
2-Nitrophenol	<2.1	<2.1	<2.1	<2.1	<2.1	<2.0	<2.0	<2.1	<2.0
4-Nitrophenol	<21.1	<20.8	<20.5	<20.7	<21.1	<20.4	<20.4	<20.9	<20.4
Pentachlorophenol	<10.5	<10.4	<10.3	<10.4	<10.5	<10.2	<10.2	<10.5	<10.2
Phenanthrene	<2.1	<2.1	<2.1	<2.1	<2.1	<2.0	<2.0	<2.1	<2.0
Phenol	<2.1	<2.1	<2.1	<2.1	<2.1	<2.0	<2.0	<2.1	<2.0
Pyrene	<2.1	<2.1	<2.1	<2.1	<2.1	<2.0	<2.0	<2.1	<2.0
1,2,4-Trichlorobenzene	<2.1	<2.1	<2.1	<2.1	<2.1	<2.0	<2.0	<2.1	<2.0
2,4,6-Trichlorophenol	<5.3	<5.2	<5.1	<5.2	<5.3	<5.1	<5.1	<5.2	<5.1

Appendix Table A-2. Continued.

Stream	Loramie Creek	Loramie Creek	Loramie Creek	Loramie Creek	L. Loramie WWTP	L. Loramie WWTP	Loramie Creek	Loramie Creek	Loramie Creek
River Mile	34.96	34.96	30.42	30.42	21.1 *d*	21.1 *d*	18.82	16.51	16.51
Date Sampled	07/15/08	08/05/08	07/15/08	08/05/08	07/15/08	08/05/08	08/05/08	07/15/08	08/05/08
Semivolatile Organic Compounds (USEPA Method 625)									
Acenaphthene	<5.3	<5.5	<5.4	<5.2	<5.3	<5.2	<5.2	<5.2	<5.2
Acenaphthylene	<5.3	<5.5	<5.4	<5.2	<5.3	<5.2	<5.2	<5.2	<5.2
Anthracene	<2.1	<2.2	<2.2	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
Benzo[a]anthracene	<2.1	<2.2	<2.2	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
Benzo[a]pyrene	<2.1	<2.2	<2.2	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
Benzo[b]fluoranthene	<2.1	<2.2	<2.2	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
Benzo[g,h,i]perylene	<2.1	<2.2	<2.2	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
Benzo[k]fluoranthene	<2.1	<2.2	<2.2	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
bis(2-Chloroethoxy)methane	<5.3	<5.5	<5.4	<5.2	<5.3	<5.2	<5.2	<5.2	<5.2
bis(2-Chloroethyl)ether	<2.1	<2.2	<2.2	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
bis(2-Chloroisopropyl)ether	<2.1	<2.2	<2.2	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
bis(2-Ethylhexyl)phthalate	<10.5	<11.0	<10.8	<10.5	<10.5	<10.4	<10.4	<10.4	<10.4
4-Bromophenyl-phenylether	<5.3	<5.5	<5.4	<5.2	<5.3	<5.2	<5.2	<5.2	<5.2
Butylbenzylphthalate	<2.1	<2.2	<2.2	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
4-Chloro-3-methylphenol	<10.5	<11.0	<10.8	<10.5	<10.5	<10.4	<10.4	<10.4	<10.4
2-Chloronaphthalene	<5.3	<5.5	<5.4	<5.2	<5.3	<5.2	<5.2	<5.2	<5.2
2-Chlorophenol	<2.1	<2.2	<2.2	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
4-Chlorophenyl-phenylether	<2.1	<2.2	<2.2	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
Chrysene	<2.1	<2.2	<2.2 UJ	<2.1	<2.1 UJ	<2.1	<2.1	<2.1 UJ	<2.1
Di-n-butylphthalate	<5.3	<5.5	<5.4	<5.2	<5.3	<5.2	<5.2	<5.2	<5.2
Di-n-octylphthalate	<2.1	<2.2	<2.2	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
Dibenz[a,h]anthracene	<2.1	<2.2	<2.2	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
1,3-Dichlorobenzene	<2.1	<2.2	<2.2	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
1,4-Dichlorobenzene	<2.1	<2.2	<2.2	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
1,2-Dichlorobenzene	<2.1	<2.2	<2.2	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
2,4-Dichlorophenol	<2.1	<2.2	<2.2	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
Diethylphthalate	<5.3	<5.5	<5.4	<5.2	<5.3	<5.2	<5.2	<5.2	<5.2
2,4-Dimethylphenol	<10.5	<11.0	<10.8	<10.5	<10.5	<10.4	<10.4	<10.4	<10.4
Dimethylphthalate	<5.3	<5.5	<5.4	<5.2	<5.3	<5.2	<5.2	<5.2	<5.2
4,6-Dinitro-2-methylphenol	<5.3	<5.5	<5.4	<5.2	<5.3	<5.2	<5.2	<5.2	<5.2
2,4-Dinitrophenol	<21.1	<22.0	<21.5	<20.9	<21.1	<20.8	<20.8	<20.8	<20.8
2,6-Dinitrotoluene	<2.1	<2.2	<2.2	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
2,4-Dinitrotoluene	<2.1	<2.2	<2.2	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
Fluoranthene	<2.1	<2.2	<2.2	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
Fluorene	<2.1	<2.2	<2.2	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
Hexachlorobenzene	<2.1	<2.2	<2.2	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
Hexachlorobutadiene	<2.1	<2.2	<2.2	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
Hexachlorocyclopentadiene	<2.1	<2.2	<2.2	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
Hexachloroethane	<5.3	<5.5	<5.4	<5.2	<5.3	<5.2	<5.2	<5.2	<5.2
Indeno[1,2,3-cd]pyrene	<2.1	<2.2	<2.2	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
Isophorone	<2.1	<2.2	<2.2	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
N-Nitroso-di-n-propylamine	<2.1	<2.2	<2.2	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
N-Nitrosodiphenylamine	<5.3	<5.5	<5.4	<5.2	<5.3	<5.2	<5.2	<5.2	<5.2
Naphthalene	<2.1	<2.2	<2.2	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
Nitrobenzene	<2.1	<2.2	<2.2	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
2-Nitrophenol	<2.1	<2.2	<2.2	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
4-Nitrophenol	<21.1	<22.0	<21.5	<20.9	<21.1	<20.8	<20.8	<20.8	<20.8
Pentachlorophenol	<10.5	<11.0	<10.8	<10.5	<10.5	<10.4	<10.4	<10.4	<10.4
Phenanthrene	<2.1	<2.2	<2.2	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
Phenol	<2.1	<2.2	<2.2	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
Pyrene	<2.1	<2.2	<2.2	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
1,2,4-Trichlorobenzene	<2.1	<2.2	<2.2	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
2,4,6-Trichlorophenol	<5.3	<5.5	<5.4	<5.2	<5.3	<5.2	<5.2	<5.2	<5.2

Appendix Table A-2. Continued.

Stream	Loramie Creek	Loramie Creek	Minster WWTP	Miami Erie Canal	Miami Erie Canal	Mile Creek	Mile Creek
River Mile	1.87	1.87	1.8 *e*	0.1	0.1	0.5	0.5
Date Sampled	07/15/08	08/05/08	08/05/08	07/15/08	08/05/08	07/15/08	08/05/08
Semivolatile Organic Compounds (USEPA Method 625)							
Acenaphthene	<5.2	<5.2	<5.2	<5.3	<5.3	<5.2	<5.2
Acenaphthylene	<5.2	<5.2	<5.2	<5.3	<5.3	<5.2	<5.2
Anthracene	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
Benzo[a]anthracene	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
Benzo[a]pyrene	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
Benzo[b]fluoranthene	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
Benzo[g,h,i]perylene	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
Benzo[k]fluoranthene	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
bis(2-Chloroethoxy)methane	<5.2	<5.2	<5.2	<5.3	<5.3	<5.2	<5.2
bis(2-Chloroethyl)ether	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
bis(2-Chloroisopropyl)ether	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
bis(2-Ethylhexyl)phthalate	<10.4 PT	<10.4	<10.4	<10.5	<10.5	<10.4	<10.4
4-Bromophenyl-phenylether	<5.2	<5.2	<5.2	<5.3	<5.3	<5.2	<5.2
Butylbenzylphthalate	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
4-Chloro-3-methylphenol	<10.4	<10.4	<10.4	<10.5	<10.5	<10.4	<10.4
2-Chloronaphthalene	<5.2	<5.2	<5.2	<5.3	<5.3	<5.2	<5.2
2-Chlorophenol	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
4-Chlorophenyl-phenylether	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
Chrysene	<2.1 UJ	<2.1	<2.1	<2.1 UJ	<2.1	<2.1 UJ	<2.1
Di-n-butylphthalate	<5.2	<5.2	<5.2	<5.3	<5.3	<5.2	<5.2
Di-n-octylphthalate	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
Dibenz[a,h]anthracene	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
1,3-Dichlorobenzene	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
1,4-Dichlorobenzene	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
1,2-Dichlorobenzene	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
2,4-Dichlorophenol	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
Diethylphthalate	<5.2	<5.2	<5.2	<5.3	<5.3	<5.2	<5.2
2,4-Dimethylphenol	<10.4	<10.4	<10.4	<10.5	<10.5	<10.4	<10.4
Dimethylphthalate	<5.2	<5.2	<5.2	<5.3	<5.3	<5.2	<5.2
4,6-Dinitro-2-methylphenol	<5.2	<5.2	<5.2	<5.3	<5.3	<5.2	<5.2
2,4-Dinitrophenol	<20.8	<20.8	<20.8	<21.1	<21.1	<20.8	<20.8
2,6-Dinitrotoluene	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
2,4-Dinitrotoluene	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
Fluoranthene	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
Fluorene	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
Hexachlorobenzene	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
Hexachlorobutadiene	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
Hexachlorocyclopentadiene	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
Hexachloroethane	<5.2	<5.2	<5.2	<5.3	<5.3	<5.2	<5.2
Indeno[1,2,3-cd]pyrene	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
Isophorone	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
N-Nitroso-di-n-propylamine	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
N-Nitrosodiphenylamine	<5.2	<5.2	<5.2	<5.3	<5.3	<5.2	<5.2
Naphthalene	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
Nitrobenzene	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
2-Nitrophenol	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
4-Nitrophenol	<20.8	<20.8	<20.8	<21.1	<21.1	<20.8	<20.8
Pentachlorophenol	<10.4	<10.4	<10.4	<10.5	<10.5	<10.4	<10.4
Phenanthrene	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
Phenol	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
Pyrene	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
1,2,4-Trichlorobenzene	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
2,4,6-Trichlorophenol	<5.2	<5.2	<5.2	<5.3	<5.3	<5.2	<5.2

Appendix Table A-2. Continued.

Stream	Great Miami R	Great Miami R	Indian Lake WWTP	Indian Lake WWTP	Great Miami R	Great Miami R	Great Miami R	Great Miami R	Great Miami R
River Mile	158.2	158.2	158.05 *a*	158.05 *a*	157.22	157.22	146.19	146.19	143.2
Date Sampled	07/17/08	08/07/08	07/17/08	08/07/08	07/17/08	08/07/08	07/17/08	08/07/08	07/16/08
Volatile Organic Compounds (USEPA Method 624)									
Benzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromobenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromochloromethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	<0.50	<0.50	3.13	8.21	<0.50	<0.50	<0.50	<0.50	<0.50
Bromoform	<0.50	<0.50	<0.50	0.56	<0.50	<0.50	<0.50	<0.50	<0.50
Bromomethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50 UJ	<0.50
n-Butylbenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
sec-Butylbenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
tert-Butylbenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon tetrachloride	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chlorobenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chloroethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50 UJ	<0.50
Chloroform	<0.50	<0.50	3.94	5.63	<0.50	0.6	<0.50	<0.50	<0.50
Chloromethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50 UJ	<0.50
2-Chlorotoluene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
4-Chlorotoluene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dibromochloromethane	<0.50	<0.50	1	4.57	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dibromo-3-chloropropane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dibromoethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dibromomethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichlorobenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,3-Dichlorobenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50 UJ	<0.50
1,1-Dichloroethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichloroethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
cis-1,2-Dichloroethene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
trans-1,2-Dichloroethene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichloropropane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,3-Dichloropropane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
2,2-Dichloropropane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloropropene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
cis-1,3-Dichloropropene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
trans-1,3-Dichloropropene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Ethylbenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Hexachlorobutadiene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Isopropylbenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
4-Isopropyltoluene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene chloride	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Naphthalene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
n-Propylbenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Styrene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1,2-Tetrachloroethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Toluene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2,3-Trichlorobenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2,4-Trichlorobenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1-Trichloroethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichlorofluoromethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50 UJ	<0.50
1,2,3-Trichloropropane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2,4-Trimethylbenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,3,5-Trimethylbenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Vinyl chloride	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50 UJ	<0.50
o-Xylene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Total m&p-xylenes	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

Appendix Table A-2. Continued.

Stream	Great Miami R	Q-DeGraff WWTP	Q-DeGraff WWTP	Great Miami R	Great Miami R	North Fk GMR	North Fk GMR	South Fk GMR	South Fk GMR
River Mile	143.2	143.1 *b*	143.1 *b*	129.99	129.99	6.31	6.31	3.95	3.95
Date Sampled	08/06/08	07/16/08	08/06/08	07/16/08	08/06/08	07/16/08	08/06/08	07/16/08	08/06/08
Volatile Organic Compounds (USEPA Method 624)									
Benzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromobenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromochloromethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromoform	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromomethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
n-Butylbenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
sec-Butylbenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
tert-Butylbenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon tetrachloride	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chlorobenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chloroethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chloroform	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chloromethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
2-Chlorotoluene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
4-Chlorotoluene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dibromochloromethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dibromo-3-chloropropane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dibromoethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dibromomethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichlorobenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,3-Dichlorobenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichloroethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
cis-1,2-Dichloroethene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
trans-1,2-Dichloroethene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichloropropane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,3-Dichloropropane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
2,2-Dichloropropane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloropropene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
cis-1,3-Dichloropropene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
trans-1,3-Dichloropropene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Ethylbenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Hexachlorobutadiene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Isopropylbenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
4-Isopropyltoluene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene chloride	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Naphthalene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
n-Propylbenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Styrene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1,2-Tetrachloroethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Toluene	<0.50	<0.50	<0.50	<0.50	2.1	<0.50	<0.50	<0.50	<0.50
1,2,3-Trichlorobenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2,4-Trichlorobenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1-Trichloroethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichlorofluoromethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2,3-Trichloropropane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2,4-Trimethylbenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,3,5-Trimethylbenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Vinyl chloride	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
o-Xylene	<0.50	<0.50	<0.50	<0.50	0.52	<0.50	<0.50	<0.50	<0.50
Total m&p-xylenes	<0.50	<0.50	<0.50	<0.50	1.18	<0.50	<0.50	<0.50	<0.50

Appendix Table A-2. Continued.

Stream	Van Horn Creek	Van Horn Creek	Muchinippi Creek	Muchinippi Creek	Bokengehala Creek	Bokengehala Creek	Blue Jacket Creek	Blue Jacket Creek	Bellef'taine WWTP
River Mile	0.97	0.97	0.32	0.32	1.13	1.13	5.39	5.39	0.5 *c*
Date Sampled	07/17/08	08/07/08	07/17/08	08/07/08	07/16/08	08/06/08	07/16/08	08/06/08	07/16/08
Volatile Organic Compounds (USEPA Method 624)									
Benzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromobenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromochloromethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	2.18
Bromoform	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromomethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
n-Butylbenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
sec-Butylbenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
tert-Butylbenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon tetrachloride	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chlorobenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chloroethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chloroform	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.64	0.58	2.6
Chloromethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
2-Chlorotoluene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
4-Chlorotoluene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dibromochloromethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.82
1,2-Dibromo-3-chloropropane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dibromoethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dibromomethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichlorobenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,3-Dichlorobenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichloroethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
cis-1,2-Dichloroethene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
trans-1,2-Dichloroethene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichloropropane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,3-Dichloropropane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
2,2-Dichloropropane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloropropene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
cis-1,3-Dichloropropene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
trans-1,3-Dichloropropene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Ethylbenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Hexachlorobutadiene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Isopropylbenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
4-Isopropyltoluene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene chloride	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Naphthalene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
n-Propylbenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Styrene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1,2-Tetrachloroethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Toluene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2,3-Trichlorobenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2,4-Trichlorobenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1-Trichloroethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichlorofluoromethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2,3-Trichloropropane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2,4-Trimethylbenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,3,5-Trimethylbenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Vinyl chloride	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
o-Xylene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Total m&p-xylenes	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

Appendix Table A-2. Continued.

Stream	Bellef'taine WWTP	Loramie Creek	Loramie Creek	Loramie Creek	Loramie Creek	L. Loramie WWTP	L. Loramie WWTP	Loramie Creek	Loramie Creek
River Mile	0.5 *c*	34.96	34.96	30.42	30.42	21.1 *d*	21.1 *d*	18.82	18.82
Date Sampled	08/06/08	07/15/08	08/05/08	07/15/08	08/05/08	07/15/08	08/05/08	07/15/08	08/05/08
Volatile Organic Compounds (USEPA Method 624)									
Benzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromobenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromochloromethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	1.26	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromoform	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromomethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
n-Butylbenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
sec-Butylbenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
tert-Butylbenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon tetrachloride	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chlorobenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chloroethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chloroform	1.73	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chloromethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
2-Chlorotoluene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
4-Chlorotoluene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dibromochloromethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dibromo-3-chloropropane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dibromoethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dibromomethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichlorobenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,3-Dichlorobenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichloroethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
cis-1,2-Dichloroethene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
trans-1,2-Dichloroethene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichloropropane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,3-Dichloropropane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
2,2-Dichloropropane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloropropene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
cis-1,3-Dichloropropene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
trans-1,3-Dichloropropene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Ethylbenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Hexachlorobutadiene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Isopropylbenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
4-Isopropyltoluene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene chloride	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Naphthalene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
n-Propylbenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Styrene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1,2-Tetrachloroethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Toluene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2,3-Trichlorobenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2,4-Trichlorobenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1-Trichloroethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichlorofluoromethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2,3-Trichloropropane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2,4-Trimethylbenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,3,5-Trimethylbenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Vinyl chloride	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
o-Xylene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Total m&p-xylenes	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

Appendix Table A-2. Continued.

Stream	Loramie Creek	Loramie Creek	Loramie Creek	Loramie Creek	Minster WWTP	Minster WWTP	Miami Erie Canal	Miami Erie Canal	Mile Creek
River Mile	16.51	16.51	1.87	1.87	1.8 *e*	1.8 *e*	0.1	0.1	0.5
Date Sampled	07/15/08	08/05/08	07/15/08	08/05/08	07/15/08	08/05/08	07/15/08	08/05/08	07/15/08
Volatile Organic Compounds (USEPA Method 624)									
Benzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromobenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromochloromethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromoform	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromomethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
n-Butylbenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
sec-Butylbenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
tert-Butylbenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon tetrachloride	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chlorobenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chloroethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chloroform	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chloromethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
2-Chlorotoluene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
4-Chlorotoluene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dibromochloromethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dibromo-3-chloropropane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dibromoethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dibromomethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichlorobenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,3-Dichlorobenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichloroethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
cis-1,2-Dichloroethene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
trans-1,2-Dichloroethene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichloropropane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,3-Dichloropropane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
2,2-Dichloropropane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloropropene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
cis-1,3-Dichloropropene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
trans-1,3-Dichloropropene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Ethylbenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Hexachlorobutadiene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Isopropylbenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
4-Isopropyltoluene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene chloride	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Naphthalene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
n-Propylbenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Styrene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1,2-Tetrachloroethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Toluene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2,3-Trichlorobenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2,4-Trichlorobenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1-Trichloroethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichlorofluoromethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2,3-Trichloropropane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2,4-Trimethylbenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,3,5-Trimethylbenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Vinyl chloride	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
o-Xylene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Total m&p-xylenes	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

Appendix Table A-2. Continued.

Stream River Mile Date Sampled	Mile Creek 0.5 08/05/08
Volatile Organic Compounds (USEPA	
Benzene	<0.50
Bromobenzene	<0.50
Bromochloromethane	<0.50
Bromodichloromethane	<0.50
Bromoform	<0.50
Bromomethane	<0.50
n-Butylbenzene	<0.50
sec-Butylbenzene	<0.50
tert-Butylbenzene	<0.50
Carbon tetrachloride	<0.50
Chlorobenzene	<0.50
Chloroethane	<0.50
Chloroform	<0.50
Chloromethane	<0.50
2-Chlorotoluene	<0.50
4-Chlorotoluene	<0.50
Dibromochloromethane	<0.50
1,2-Dibromo-3-chloropropane	<0.50
1,2-Dibromoethane	<0.50
Dibromomethane	<0.50
1,2-Dichlorobenzene	<0.50
1,3-Dichlorobenzene	<0.50
1,4-Dichlorobenzene	<0.50
Dichlorodifluoromethane	<0.50
1,1-Dichloroethane	<0.50
1,2-Dichloroethane	<0.50
1,1-Dichloroethene	<0.50
cis-1,2-Dichloroethene	<0.50
trans-1,2-Dichloroethene	<0.50
1,2-Dichloropropane	<0.50
1,3-Dichloropropane	<0.50
2,2-Dichloropropane	<0.50
1,1-Dichloropropene	<0.50
cis-1,3-Dichloropropene	<0.50
trans-1,3-Dichloropropene	<0.50
Ethylbenzene	<0.50
Hexachlorobutadiene	<0.50
Isopropylbenzene	<0.50
4-Isopropyltoluene	<0.50
Methylene chloride	<0.50
Naphthalene	<0.50
n-Propylbenzene	<0.50
Styrene	<0.50
1,1,1,2-Tetrachloroethane	<0.50
1,1,2,2-Tetrachloroethane	<0.50
Tetrachloroethene	<0.50
Toluene	<0.50
1,2,3-Trichlorobenzene	<0.50
1,2,4-Trichlorobenzene	<0.50
1,1,1-Trichloroethane	<0.50
1,1,2-Trichloroethane	<0.50
Trichloroethene	<0.50
Trichlorofluoromethane	<0.50
1,2,3-Trichloropropane	<0.50
1,2,4-Trimethylbenzene	<0.50
1,3,5-Trimethylbenzene	<0.50
Vinyl chloride	<0.50
o-Xylene	<0.50
Total m&p-xylenes	<0.50

Appendix Table A-2. Continued.

Stream	Great Miami R	Great Miami R	Indian Lake WWTP	Indian Lake WWTP	Great Miami R	Great Miami R	Great Miami R	Great Miami R	Great Miami R
River Mile	158.2	158.2	158.05 *a*	158.05 *a*	157.22	157.22	146.19	146.19	143.2
Date Sampled	07/17/08	08/07/08	07/17/08	08/07/08	07/17/08	08/07/08	07/17/08	08/07/08	07/16/08
Pesticides (USEPA Method 608)									
Aldrin	<0.0021	<0.0020	<0.0020	<0.0020	<0.0020	<0.0021	<0.0021	<0.0020	<0.0021
a-BHC	0.0025	<0.0020	0.0042	<0.0020	0.0028	<0.0021	0.0029	<0.0020	<0.0021
b-BHC	<0.0021	<0.0020	<0.0020	0.0047	<0.0020	<0.0021	<0.0021	<0.0020	<0.0021
d-BHC	<0.0021	<0.0020	<0.0020	<0.0020	<0.0020	<0.0021	0.0036	0.0037	0.0027
y-BHC	<0.0021	<0.0020	0.0062	0.011	<0.0020	<0.0021	<0.0021	<0.0020	<0.0021
4,4'-DDD	<0.0062	<0.0060	<0.0061	<0.0060	<0.0061	<0.0062	<0.0064	<0.0061	<0.0063
4,4'-DDE	<0.0021	<0.0020	<0.0020	<0.0020	<0.0020	<0.0021	<0.0021	<0.0020	<0.0021
4,4'-DDT	<0.0062	<0.0060	<0.0061	<0.0060	<0.0061	<0.0062	<0.0064	<0.0061	<0.0063
Dieldrin	<0.0021	<0.0020	0.0037	<0.0020	<0.0020	<0.0021	0.0021	<0.0020	<0.0021
Endosulfan I	<0.0021	<0.0020	<0.0020	<0.0020	<0.0020	<0.0021	<0.0021	<0.0020	<0.0021
Endosulfan II	<0.0021	<0.0020	<0.0020	<0.0020	<0.0020	<0.0021	<0.0021	<0.0020	<0.0021
Endosulfan sulfate	<0.021	<0.020	<0.020	<0.020	<0.020	<0.021	<0.021	<0.020	<0.021
Endrin	<0.0021	<0.0020	0.022	0.0081	<0.0020	<0.0021	<0.0021	<0.0020	<0.0021
Endrin aldehyde	<0.0062	<0.0060	<0.0061	<0.0060	<0.0061	<0.0062	<0.0064	<0.0061	<0.0063
Heptachlor	<0.0021	<0.0020	<0.0020	<0.0020	<0.0020	<0.0021	<0.0021	<0.0020	<0.0021
Heptachlor epoxide	<0.0021	<0.0020	<0.0020	<0.0020	<0.0020	<0.0021	<0.0021	<0.0020	<0.0021
Methoxychlor	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.011	<0.010	<0.011
Mirex	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.011	<0.010	<0.011
Hexachlorobenzene	<0.0021	<0.0020	<0.0020	<0.0020	<0.0020	<0.0021	<0.0021	<0.0020	<0.0021
Chlordane	<0.21	<0.20	<0.20	<0.20	<0.20	<0.21	<0.21	<0.20	<0.21
Toxaphene	<0.21	<0.20	<0.20	<0.20	<0.20	<0.21	<0.21	<0.20	<0.21
Pesticides (USEPA Method 525.2)									
Cyanazine	<0.20	<0.21	<0.20	<0.21	<0.20	<0.21	<0.20 UJ	<0.21	<0.20 UJ
Acetochlor	0.33 J	0.4	<0.20	<0.21	0.33 J	<0.21	0.32	0.22	0.45
Alachlor	<0.20 UJ	<0.21	<0.20	<0.21	<0.20 UJ	<0.21	<0.20	<0.21	<0.21
Atrazine	1.35 J	0.5	0.22	<0.21	1.25 J	0.61	0.99	0.35	0.95
Benzo[a]pyrene	<0.51 UJ	<0.53	<0.51	<0.52	<0.51 UJ	<0.52	<0.51	<0.52	<0.51
bis(2-Ethylhexyl)adipate	<0.51 UJ	<0.53	<0.51	<0.52	<0.51 UJ	<0.52	<0.51	<0.52	<0.51
bis(2-Ethylhexyl)phthalate	0.67 B J	0.68 B	0.65 B	0.74 B	0.59 B J	0.85 B	0.54 B	0.54 B	0.78 B
Butachlor	<0.20 UJ	<0.21	<0.20	<0.21	<0.20 UJ	<0.21	<0.20	<0.21	<0.21
Metolachlor	0.41 J	<0.21	<0.20	<0.21	0.38 J	0.21	0.36	<0.21	0.44
Metribuzin	<0.20 UJ	<0.21	<0.20	<0.21	<0.20 UJ	<0.21	<0.20	<0.21	<0.21
Pentachlorophenol	<5.05 UJ	<5.26 R	<5.10	10.2 R	<5.05 UJ	<5.24 R	<5.10	<5.21 R	<5.13
Propachlor	<0.20 UJ	<0.21	<0.20	<0.21	<0.20 UJ	<0.21	<0.20	<0.21	<0.21
Simazine	<0.20 UJ	<0.21	<0.20	<0.21	0.28 J	<0.21	0.25	<0.21	<0.21
Pesticides (USEPA Method 531.1)									
Aldicarb	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aldicarb sulfone	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aldicarb sulfoxide	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbaryl	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbofuran	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
3-Hydroxycarbofuran	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methiocarb	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methomyl	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Oxamyl	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Propoxur	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Pesticides (USEPA Method 547)									
Glyphosate	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Pesticides (USEPA Method 515.1)									
Dalapon	<0.21	<0.20	<0.20	<0.20	no sample	<0.20	<0.21	<0.22	<0.21
Dicamba	<0.21	<0.20 UJ	<0.20	<0.20 UJ	no sample	<0.20 UJ	<0.21	<0.22	<0.21
Dinoseb	<0.21	<0.20	<0.20	<0.20	no sample	<0.20	<0.21	<0.22	<0.21
Acifluorfen	<0.21	<0.20 UJ	<0.20	<0.20 UJ	no sample	<0.20 UJ	<0.21	<0.22	<0.21
2,4-D	<0.21	<0.20	<0.20	<0.20	no sample	<0.20	<0.21	1.71 J	<0.21
2,4,5-TP	<0.21	<0.20	<0.20	<0.20	no sample	<0.20	<0.21	<0.22	<0.21
Pentachlorophenol	<0.10	<0.10	<0.10	<0.10	no sample	<0.10	<0.10	<0.11	<0.11
Picloram	<0.21	<0.20	<0.20	<0.20	no sample	<0.20	<0.21	<0.22	<0.21

Appendix Table A-2. Continued.

Stream	Great Miami R	Q-DeGraff WWTP	Q-DeGraff WWTP	Great Miami R	Great Miami R	North Fk GMR	North Fk GMR	South Fk GMR	South Fk GMR
River Mile	143.2	143.1 *b*	143.1 *b*	129.99	129.99	6.31	6.31	3.95	3.95
Date Sampled	08/06/08	07/16/08	08/06/08	07/16/08	08/06/08	07/16/08	08/06/08	07/16/08	08/06/08
Pesticides (USEPA Method 608)									
Aldrin	<0.0022	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021
a-BHC	<0.0022	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021
b-BHC	<0.0022	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021
d-BHC	0.0037	<0.0021	<0.0021	0.0022	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021
y-BHC	<0.0022	<0.0021	0.0029	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021
4,4'-DDD	<0.0065	<0.0063	<0.0064	<0.0063	<0.0063	<0.0064	<0.0062	<0.0064	<0.0062
4,4'-DDE	<0.0022	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021
4,4'-DDT	<0.0065	<0.0063	<0.0064	<0.0063	<0.0063	<0.0064	<0.0062	<0.0064	<0.0062
Dieldrin	<0.0022	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021
Endosulfan I	<0.0022	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021
Endosulfan II	<0.0022	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021
Endosulfan sulfate	<0.022	<0.021	<0.021	<0.021	<0.021	<0.021	<0.021	<0.021	<0.021
Endrin	<0.0022	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021
Endrin aldehyde	<0.0065	<0.0063	<0.0064	<0.0063	<0.0063	<0.0064	<0.0062	<0.0064	<0.0062
Heptachlor	<0.0022	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021
Heptachlor epoxide	<0.0022	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021
Methoxychlor	<0.011	<0.010	<0.011	<0.011	<0.010	<0.011	<0.010	<0.011	<0.010
Mirex	<0.011	<0.010	<0.011	<0.011	<0.010	<0.011	<0.010	<0.011	<0.010
Hexachlorobenzene	<0.0022	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021
Chlordane	<0.22	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
Toxaphene	<0.22	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
Pesticides (USEPA Method 525.2)									
Cyanazine	<0.21	<0.21	<0.21	<0.20	<0.21	<0.20	<0.21	<0.21	<0.21
Acetochlor	<0.21	<0.21 UJ	<0.21	0.38	<0.21	0.46	0.29	0.35	<0.21
Alachlor	<0.21	<0.21 UJ	<0.21	<0.21	<0.21	<0.21	<0.21	<0.20	<0.21
Atrazine	0.31	<0.21 UJ	<0.21	0.83	0.26	0.79	1.13	0.54	0.29
Benzo[a]pyrene	<0.51	<0.52 UJ	<0.52	<0.52	<0.52	<0.52	<0.54	<0.51	<0.52
bis(2-Ethylhexyl)adipate	<0.51	<0.52 UJ	<0.52	<0.52	<0.52	<0.52	<0.54	<0.51	<0.52
bis(2-Ethylhexyl)phthalate	0.65	0.73 B J	0.63	0.97 B	<0.52	1.01 B	1 B	0.92 B	0.74 B
Butachlor	<0.21	<0.21 UJ	<0.21	<0.21	<0.21	<0.21	<0.21	<0.20	<0.21
Metolachlor	<0.21	<0.21 UJ	<0.21	0.42	<0.21	<0.21	<0.21	0.35	<0.21
Metribuzin	<0.21	<0.21 UJ	<0.21	<0.21	<0.21	<0.21	<0.21	<0.20	<0.21
Pentachlorophenol	<5.13 R	<5.18 UJ	<5.21 R	<5.15	<5.24 R	<5.21	<5.35 R	<5.05	<5.21 R
Propachlor	<0.21	<0.21 UJ	<0.21	<0.21	<0.21	<0.21	<0.21	<0.20	<0.21
Simazine	0.31	<0.21 UJ	<0.21	<0.21	0.4	0.31	0.34	<0.20	<0.21
Pesticides (USEPA Method 531.1)									
Aldicarb	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aldicarb sulfone	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aldicarb sulfoxide	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbaryl	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbofuran	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
3-Hydroxycarbofuran	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methiocarb	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methomyl	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Oxamyl	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Propoxur	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Pesticides (USEPA Method 547)									
Glyphosate	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Pesticides (USEPA Method 515.1)									
Dalapon	<0.21	<0.21	<0.21	<0.21	<0.22	<0.21	<0.21	<0.21	<0.20
Dicamba	<0.21 UJ	<0.21	<0.21 UJ	<0.21	<0.22 UJ	<0.21	<0.21 UJ	<0.21	<0.20 UJ
Dinoseb	<0.21	<0.21	<0.21	<0.21	<0.22	<0.21	<0.21	<0.21	<0.20
Acifluorfen	<0.21 UJ	<0.21	<0.21 UJ	<0.21	<0.22 UJ	<0.21	<0.21 UJ	<0.21	<0.20 UJ
2,4-D	6.23 UJ	<0.21	<0.21 UJ	<0.21	<0.22 UJ	<0.21	<0.21 UJ	<0.21	<0.20 UJ
2,4,5-TP	<0.21	<0.21	<0.21	<0.21	<0.22	<0.21	<0.21	<0.21	<0.20
Pentachlorophenol	<0.10 UJ	<0.11	<0.11 UJ	<0.10	<0.11 UJ	<0.11	<0.11 UJ	<0.10	<0.10 UJ
Picloram	<0.21	<0.21	<0.21	<0.21	<0.22	<0.21	<0.21	<0.21	<0.20

Appendix Table A-2. Continued.

Stream	Van Horn Creek	Van Horn Creek	Muchinippi Creek	Muchinippi Creek	Bokengehala Creek	Bokengehala Creek	Blue Jacket Creek	Blue Jacket Creek	Bellef'taine WWTP
River Mile	0.97	0.97	0.32	0.32	1.13	1.13	5.39	5.39	0.5 *c*
Date Sampled	07/17/08	08/07/08	07/17/08	08/07/08	7/16/08	8/6/08	7/16/08	8/6/08	7/16/08
Pesticides (USEPA Method 608)									
Aldrin	<0.0021	<0.0021	<0.0020	<0.0021	<0.0021	<0.0021	<0.0020	<0.0021	<0.0021
a-BHC	<0.0021	<0.0021	<0.0020	<0.0021	<0.0021	<0.0021	<0.0020	<0.0021	<0.0021
b-BHC	<0.0021	<0.0021	<0.0020	<0.0021	<0.0021	<0.0021	<0.0020	<0.0021	<0.0021
d-BHC	<0.0021	0.004	<0.0020	0.0049	<0.0021	0.0035	<0.0020	0.0042	<0.0021
y-BHC	<0.0021	<0.0021	<0.0020	<0.0021	<0.0021	<0.0021	<0.0020	0.0021	0.0022
4,4'-DDD	<0.0063	<0.0064	<0.0061	<0.0063	<0.0063	<0.0062	<0.0061	<0.0062	<0.0062
4,4'-DDE	<0.0021	<0.0021	<0.0020	<0.0021	<0.0021	<0.0021	<0.0020	<0.0021	<0.0021
4,4'-DDT	<0.0063	<0.0064	<0.0061	<0.0063	<0.0063	<0.0062	<0.0061	<0.0062	<0.0062
Dieldrin	0.0023	<0.0021	<0.0020	<0.0021	<0.0021	<0.0021	<0.0020	<0.0021	<0.0021
Endosulfan I	<0.0021	<0.0021	<0.0020	<0.0021	<0.0021	<0.0021	<0.0020	<0.0021	<0.0021
Endosulfan II	<0.0021	<0.0021	<0.0020	<0.0021	<0.0021	<0.0021	<0.0020	<0.0021	<0.0021
Endosulfan sulfate	<0.021	<0.021	<0.020	<0.021	<0.021	<0.021	<0.020	<0.021	<0.021
Endrin	<0.0021	<0.0021	<0.0020	<0.0021	<0.0021	<0.0021	<0.0020	<0.0021	<0.0021
Endrin aldehyde	<0.0063	<0.0064	<0.0061	<0.0063	<0.0063	<0.0062	<0.0061	<0.0062	<0.0062
Heptachlor	<0.0021	<0.0021	<0.0020	<0.0021	<0.0021	<0.0021	<0.0020	<0.0021	<0.0021
Heptachlor epoxide	<0.0021	<0.0021	<0.0020	<0.0021	<0.0021	<0.0021	<0.0020	<0.0021	<0.0021
Methoxychlor	<0.010	<0.011	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Mirex	<0.010	<0.011	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Hexachlorobenzene	<0.0021	<0.0021	<0.0020	<0.0021	<0.0021	<0.0021	<0.0020	<0.0021	<0.0021
Chlordane	<0.21	<0.21	<0.20	<0.21	<0.21	<0.21	<0.20	<0.21	<0.21
Toxaphene	<0.21	<0.21	<0.20	<0.21	<0.21	<0.21	<0.20	<0.21	<0.21
Pesticides (USEPA Method 525.2)									
Cyanazine	<0.21	<0.21	<0.20	<0.21	<0.20	<0.21	<0.20	<0.21	<0.20
Acetochlor	0.27	<0.21	0.36	0.28	<0.20	<0.20	<0.20	<0.20	<0.20
Alachlor	<0.21	<0.21	<0.21	<0.21	<0.20	<0.20	<0.20	<0.20	<0.20
Atrazine	0.63	0.3	0.45	0.68	<0.20	<0.20	<0.20	<0.20	<0.20
Benzo[a]pyrene	<0.52	<0.52	<0.51	<0.52	<0.51	<0.51	<0.51	<0.51	<0.51
bis(2-Ethylhexyl)adipate	0.56	<0.52	<0.51	<0.52	<0.51	<0.51	<0.51	<0.51	<0.51
bis(2-Ethylhexyl)phthalate	0.72 B	0.59 B	0.75 B	0.56 B	0.87 B	0.88	0.93 B	0.79	0.94 B
Butachlor	<0.21	<0.21	<0.21	<0.21	<0.20	<0.20	<0.20	<0.20	<0.20
Metolachlor	0.5	0.24	0.27	2.73	0.24	<0.20	<0.20	<0.20	<0.20
Metribuzin	<0.21	<0.21	<0.21	<0.21	<0.20	<0.20	<0.20	<0.20	<0.20
Pentachlorophenol	<5.21	<5.24 R	<5.13	<5.24 R	<5.08	<5.10 R	<5.05	<5.10 R	<5.05
Propachlor	<0.21	<0.21	<0.21	<0.21	<0.20	<0.20	<0.20	<0.20	<0.20
Simazine	<0.21	<0.21	<0.21	<0.21	<0.20	0.98	<0.20	<0.20	<0.20
Pesticides (USEPA Method 531.1)									
Aldicarb	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aldicarb sulfone	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aldicarb sulfoxide	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbaryl	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbofuran	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
3-Hydroxycarbofuran	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methiocarb	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methomyl	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Oxamyl	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Propoxur	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Pesticides (USEPA Method 547)									
Glyphosate	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Pesticides (USEPA Method 515.1)									
Dalapon	<0.21	<0.21	<0.20	<0.20	<0.20	<0.21 UJ	<0.20	<0.20	<0.20
Dicamba	<0.21	<0.21 UJ	<0.20	<0.20 UJ	<0.20	<0.21 UJ	<0.20	<0.20 UJ	<0.20
Dinoseb	<0.21	<0.21	<0.20	<0.20	<0.20	<0.21 UJ	<0.20	<0.20	<0.20
Acifluorfen	<0.21	<0.21 UJ	<0.20	<0.20 UJ	<0.20	<0.21 UJ	<0.20	<0.20 UJ	<0.20
2,4-D	<0.21	<0.21	<0.20	4.66	<0.20	<0.21 UJ	<0.20	<0.20 UJ	<0.20
2,4,5-TP	<0.21	<0.21	<0.20	<0.20	<0.20	<0.21 UJ	<0.20	<0.20	<0.20
Pentachlorophenol	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10 UJ	<0.10	<0.10 UJ	<0.10
Picloram	<0.21	<0.21	<0.20	<0.20	<0.20	<0.21 UJ	<0.20	<0.20	<0.20

Appendix Table A-2. Continued.

Stream	Bellef'taine WWTP	Loramie Creek	Loramie Creek	Loramie Creek	Loramie Creek	L. Loramie WWTP	L. Loramie WWTP	Loramie Creek	Loramie Creek
River Mile	0.5 *c*	34.96	34.96	30.42	30.42	21.1 *d*	21.1 *d*	18.82	18.82
Date Sampled	8/6/08	7/15/08	8/5/08	7/15/08	8/5/08	7/15/08	8/5/08	07/15/08	8/5/08
Pesticides (USEPA Method 608)									
Aldrin	<0.0021	<0.0020	<0.0021	<0.0022	<0.0022	<0.0020	<0.0021	no sample	<0.0021
a-BHC	<0.0021	<0.0020	0.0023	<0.0022	<0.0022	<0.0020	<0.0021	no sample	0.0035
b-BHC	<0.0021	<0.0020	<0.0021	<0.0022	<0.0022	<0.0020	<0.0021	no sample	<0.0021
d-BHC	<0.0021	0.002	<0.0021	<0.0022	0.0038	<0.0020	<0.0021	no sample	<0.0021
y-BHC	0.004	<0.0020	<0.0021	<0.0022	<0.0022	<0.0020	0.0052	no sample	0.0035
4,4'-DDD	<0.0062	<0.0061	<0.0063	<0.0065	<0.0066	<0.0061	<0.0062	no sample	<0.0063
4,4'-DDE	<0.0021	<0.0020	<0.0021	<0.0022	<0.0022	<0.0020	<0.0021	no sample	<0.0021
4,4'-DDT	<0.0062	<0.0061	<0.0063	<0.0065	<0.0066	<0.0061	<0.0062	no sample	<0.0063
Dieldrin	<0.0021	<0.0020	<0.0021	0.0027	<0.0022	<0.0020	<0.0021	no sample	<0.0021
Endosulfan I	<0.0021	<0.0020	<0.0021	<0.0022	<0.0022	<0.0020	<0.0021	no sample	0.0024
Endosulfan II	<0.0021	<0.0020	<0.0021	<0.0022	<0.0022	<0.0020	<0.0021	no sample	<0.0021
Endosulfan sulfate	<0.021	<0.020	<0.021	<0.022	<0.022	<0.020	<0.021	no sample	<0.021
Endrin	<0.0021	<0.0020	<0.0021	<0.0022	<0.0022	<0.0020	<0.0021	no sample	<0.0021
Endrin aldehyde	<0.0062	<0.0061	<0.0063	<0.0065	<0.0066	<0.0061	<0.0062	no sample	<0.0063
Heptachlor	<0.0021	<0.0020	<0.0021	<0.0022	<0.0022	<0.0020	<0.0021	no sample	<0.0021
Heptachlor epoxide	<0.0021	<0.0020	<0.0021	<0.0022	<0.0022	<0.0020	<0.0021	no sample	<0.0021
Methoxychlor	<0.010	<0.010	<0.010	<0.011	<0.011	<0.010	<0.010	no sample	<0.011
Mirex	<0.010	<0.010	<0.010	<0.011	<0.011	<0.010	<0.010	no sample	<0.011
Hexachlorobenzene	<0.0021	<0.0020	<0.0021	<0.0022	<0.0022	<0.0020	<0.0021	no sample	<0.0021
Chlordane	<0.21	<0.20	<0.21	<0.22	<0.22	<0.20	<0.21	no sample	<0.21
Toxaphene	<0.21	<0.20	<0.21	<0.22	<0.22	<0.20	<0.21	no sample	<0.21
Pesticides (USEPA Method 525.2)									
Cyanazine	<0.21	<0.20	<0.21 UJ	<0.21	<0.21	<0.21	<0.21	<0.20	<0.21
Acetochlor	<0.20	<0.21	0.57 J	0.33	<0.28	<0.20	<0.21	0.51	<0.21
Alachlor	<0.20	<0.21	<0.21	<0.21	<0.28	<0.20	<0.21	<0.20	<0.21
Atrazine	<0.20	0.63	1.63	0.8	0.58	0.39	<0.21	2.11	<0.21
Benzo[a]pyrene	<0.51	<0.52	<0.52	<0.51	<0.70	<0.51	<0.52	<0.51	<0.52
bis(2-Ethylhexyl)adipate	<0.51	<0.52	<0.52	<0.51	<0.70	<0.51	<0.52	<0.51	<0.52
bis(2-Ethylhexyl)phthalate	0.64	1.04	0.66	1.17 J	<0.70	1.38 J	0.73	1.03 J	0.59
Butachlor	<0.20	<0.21	<0.21	<0.21	<0.28	<0.20	<0.21	<0.20	<0.21
Metolachlor	<0.20	0.39	0.31	0.47	0.31	0.29	<0.21	0.88	<0.21
Metribuzin	<0.20	<0.21	<0.21	<0.21	<0.28	<0.20	<0.21	<0.20	<0.21
Pentachlorophenol	<5.10 R	<5.18	<5.18	<5.13	<7.04	<5.10	<5.21	<5.10	12.3 R
Propachlor	<0.20	<0.21	<0.21	<0.21	<0.28	<0.20	<0.21	<0.20	<0.21
Simazine	<0.20	<0.21	<0.21	<0.21	<0.28	<0.20	<0.21	<0.20	<0.21
Pesticides (USEPA Method 531.1)									
Aldicarb	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aldicarb sulfone	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aldicarb sulfoxide	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbaryl	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbofuran	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
3-Hydroxycarbofuran	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methiocarb	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methomyl	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Oxamyl	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Propoxur	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Pesticides (USEPA Method 547)									
Glyphosate	<5.0	<5.0	95.4	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Pesticides (USEPA Method 515.1)									
Dalapon	<0.20	<0.21	<0.21	<0.21	<0.21	<0.20	<0.21	<0.21	<0.21
Dicamba	<0.20 UJ	<0.21	<0.21	<0.21	<0.21	<0.20	<0.21	<0.21	<0.21 UJ
Dinoseb	<0.20	<0.21	<0.21	<0.21	<0.21	<0.20 UJ	<0.21	<0.21	<0.21
Acifluorfen	<0.20 UJ	<0.21 UJ	<0.21 UJ	<0.21 UJ	<0.21 UJ	<0.20	<0.21 UJ	<0.21 UJ	<0.21 UJ
2,4-D	<0.20 UJ	<0.21	6.61 UJ	<0.21	<0.21	<0.20	<0.21	<0.21	<0.21
2,4,5-TP	<0.20	<0.21	<0.21	<0.21	<0.21	<0.20	<0.21	<0.21	<0.21
Pentachlorophenol	<0.10 UJ	<0.10	0.16 UJ	<0.11	<0.11	<0.10 UJ	<0.11	<0.10	<0.10
Picloram	<0.20	<0.21	<0.21 UJ	<0.21	<0.21	<0.20	<0.21	<0.21	<0.21

Appendix Table A-2. Continued.

Stream	Loramie Creek	Loramie Creek	Loramie Creek	Loramie Creek	Minster WWTP	Minster WWTP	Miami Erie Canal	Miami Erie Canal	Mile Creek
River Mile	16.51	16.51	1.87	1.87	1.8 *e*	1.8 *e*	0.1	0.1	0.5
Date Sampled	7/15/08	8/5/08	7/15/08	8/5/08	07/15/08	8/5/08	7/15/08	08/05/08	7/15/08
Pesticides (USEPA Method 608)									
Aldrin	<0.0020	<0.0021	<0.0020	<0.0021	no sample	<0.0021	<0.0021	<0.0021	<0.0021
a-BHC	0.0025	0.0027	0.0029	<0.0021	no sample	<0.0021	<0.0021	<0.0021	<0.0021
b-BHC	<0.0020	<0.0021	<0.0020	<0.0021	no sample	<0.0021	<0.0021	<0.0021	<0.0021
d-BHC	0.0029	0.005	0.0024	<0.0021	no sample	<0.0021	0.0034	<0.0021	<0.0021
y-BHC	<0.0020	<0.0021	<0.0020	<0.0021	no sample	0.0029	<0.0021	<0.0021	<0.0021
4,4'-DDD	<0.0060	<0.0062	<0.0060	<0.0062	no sample	<0.0062	<0.0062	<0.0062	<0.0063
4,4'-DDE	<0.0020	<0.0021	<0.0020	<0.0021	no sample	<0.0021	<0.0021	<0.0021	<0.0021
4,4'-DDT	<0.0060	<0.0062	<0.0060	<0.0062	no sample	<0.0062	<0.0062	<0.0062	<0.0063
Dieldrin	<0.0020	<0.0021	<0.0020	<0.0021	no sample	<0.0021	<0.0021	<0.0021	0.0044
Endosulfan I	<0.0020	<0.0021	<0.0020	<0.0021	no sample	<0.0021	<0.0021	<0.0021	<0.0021
Endosulfan II	<0.0020	<0.0021	<0.0020	<0.0021	no sample	<0.0021	<0.0021	<0.0021	<0.0021
Endosulfan sulfate	<0.020	<0.021	<0.020	<0.021	no sample	<0.021	<0.021	<0.021	<0.021
Endrin	<0.0020	<0.0021	<0.0020	<0.0021	no sample	<0.0021	<0.0021	<0.0021	<0.0021
Endrin aldehyde	<0.0060	<0.0062	<0.0060	<0.0062	no sample	<0.0062	<0.0062	<0.0062	<0.0063
Heptachlor	<0.0020	<0.0021	<0.0020	<0.0021	no sample	<0.0021	<0.0021	<0.0021	<0.0021
Heptachlor epoxide	<0.0020	<0.0021	<0.0020	<0.0021	no sample	<0.0021	<0.0021	<0.0021	<0.0021
Methoxychlor	<0.010	<0.010	<0.010	<0.010	no sample	<0.010	<0.010	<0.010	<0.011
Mirex	<0.010	<0.010	<0.010	<0.010	no sample	<0.010	<0.010	<0.010	<0.011
Hexachlorobenzene	<0.0020	<0.0021	<0.0020	<0.0021	no sample	<0.0021	<0.0021	<0.0021	<0.0021
Chlordane	<0.20	<0.21	<0.20	<0.21	no sample	<0.21	<0.21	<0.21	<0.21
Toxaphene	<0.20	<0.21	<0.20	<0.21	no sample	<0.21	<0.21	<0.21	<0.21
Pesticides (USEPA Method 525.2)									
Cyanazine	<0.20	<0.20	<0.20 UJ	<0.20	<0.20	<0.21	<0.21	<0.21	<0.21
Acetochlor	0.62	<0.20	0.53	<0.20	<0.21	<0.21	<0.20	<0.20	0.52
Alachlor	<0.21	<0.20	<0.21	<0.20	<0.21	<0.21	<0.20	<0.20	<0.21
Atrazine	2.21	0.45	2.38	0.5	<0.21	<0.21	<0.20	<0.20	0.49
Benzo[a]pyrene	<0.51	<0.51	<0.53	<0.51	<0.52	<0.52	<0.51	<0.51	<0.52
bis(2-Ethylhexyl)adipate	<0.51	<0.51	<0.53	<0.51	<0.52	<0.52	<0.51	<0.51	<0.52
bis(2-Ethylhexyl)phthalate	<0.51	0.65	0.96 J	0.67	1.04 J	0.74	0.92 J	0.54	1.41 J
Butachlor	<0.21	<0.20	<0.21	<0.20	<0.21	<0.21	<0.20	<0.20	<0.21
Metolachlor	0.89	0.24	0.94	0.21	<0.21	<0.21	<0.20	<0.20	0.44
Metribuzin	<0.21	<0.20	<0.21	<0.20	<0.21	<0.21	<0.20	<0.20	<0.21
Pentachlorophenol	<5.13	<5.10	<5.26	<5.10	<5.15	<5.18	<5.10	<5.10	<5.21
Propachlor	<0.21	<0.20	<0.21	<0.20	<0.21	<0.21	<0.20	<0.20	<0.21
Simazine	<0.21	<0.20	<0.21	<0.20	<0.21	<0.21	<0.20	<0.20	<0.21
Pesticides (USEPA Method 531.1)									
Aldicarb	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aldicarb sulfone	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aldicarb sulfoxide	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbaryl	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbofuran	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
3-Hydroxycarbofuran	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methiocarb	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methomyl	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Oxamyl	<0.50	<0.50	<0.50	<0.50	0.5	<0.50	<0.50	<0.50	<0.50
Propoxur	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Pesticides (USEPA Method 547)									
Glyphosate	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Pesticides (USEPA Method 515.1)									
Dalapon	<0.20	<0.20	<0.21	<0.20	<0.20	<0.21	<0.21	<0.21	<0.21
Dicamba	<0.20	<0.20	<0.21	<0.20	<0.20	<0.21	<0.21	<0.21	<0.21
Dinoseb	<0.20	<0.20	<0.21	<0.20	<0.20	<0.21	<0.21	<0.21	<0.21
Acifluorfen	<0.20 UJ	<0.20 UJ	<0.21 UJ	<0.20 UJ	<0.20	<0.21 UJ	<0.21 UJ	<0.21 UJ	<0.21 UJ
2,4-D	<0.20	<0.20	<0.21	<0.20	<0.20	<0.21	0.28	<0.21	<0.21
2,4,5-TP	<0.20	<0.20	<0.21	<0.20	<0.20	<0.21	<0.21	<0.21	<0.21
Pentachlorophenol	<0.10	<0.10	<0.10	<0.10	<0.10	<0.11	<0.10	<0.10	<0.10
Picloram	<0.20	<0.20	<0.21	<0.20	<0.20	<0.21	<0.21	<0.21	<0.21

Appendix Table A-2. Continued.

Stream River Mile Date Sampled	Mile Creek 0.5 8/5/08
Pesticides (USEPA Method 608)	
Aldrin	<0.0021
a-BHC	0.0021
b-BHC	<0.0021
d-BHC	<0.0021
y-BHC	<0.0021
4,4'-DDD	<0.0063
4,4'-DDE	<0.0021
4,4'-DDT	<0.0063
Dieldrin	<0.0021
Endosulfan I	<0.0021
Endosulfan II	<0.0021
Endosulfan sulfate	<0.021
Endrin	<0.0021
Endrin aldehyde	<0.0063
Heptachlor	<0.0021
Heptachlor epoxide	<0.0021
Methoxychlor	<0.010
Mirex	<0.010
Hexachlorobenzene	<0.0021
Chlordane	<0.21
Toxaphene	<0.21
Pesticides (USEPA Method 525.2)	
Cyanazine	<0.20
Acetochlor	<0.20
Alachlor	<0.20
Atrazine	0.46
Benzo[a]pyrene	<0.51
bis(2-Ethylhexyl)adipate	<0.51
bis(2-Ethylhexyl)phthalate	0.85
Butachlor	<0.20
Metolachlor	<0.20
Metribuzin	<0.20
Pentachlorophenol	<5.10
Propachlor	<0.20
Simazine	<0.20
Pesticides (USEPA Method 531.1)	
Aldicarb	<0.50
Aldicarb sulfone	<0.50
Aldicarb sulfoxide	<0.50
Carbaryl	<0.50
Carbofuran	<0.50
3-Hydroxycarbofuran	<0.50
Methiocarb	<0.50
Methomyl	<0.50
Oxamyl	<0.50
Propoxur	<0.50
Pesticides (USEPA Method 547)	
Glyphosate	<5.0
Pesticides (USEPA Method 515.1)	
Dalapon	<0.21
Dicamba	<0.21
Dinoseb	<0.21
Acifluorfen	<0.21 UJ
2,4-D	<0.21
2,4,5-TP	<0.21
Pentachlorophenol	<0.10
Picloram	<0.21

Appendix Table A-2. Continued.

Stream	Great Miami R	Great Miami R	Indian Lake WWTP	Indian Lake WWTP	Great Miami R	Great Miami R	Great Miami R	Great Miami R	Great Miami R
River Mile	158.2	158.2	158.05 *a*	158.05 *a*	157.22	157.22	146.19	146.19	143.2
Date Sampled	7/17/08	8/7/08	7/17/08	8/7/08	7/17/08	8/7/08	7/17/08	8/7/08	7/16/08
PCBs (USEPA Method 608)									
PCB-1016	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.11	<0.10	<0.11
PCB-1221	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.11	<0.10	<0.11
PCB-1232	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.11	<0.10	<0.11
PCB-1242	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.11	<0.10	<0.11
PCB-1248	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.11	<0.10	<0.11
PCB-1254	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.11	<0.10	<0.11
PCB-1260	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.11	<0.10	<0.11
Stream	**Great Miami R**	**Q-DeGraff WWTP**	**Q-DeGraff WWTP**	**Great Miami R**	**Great Miami R**	**North Fk GMR**	**North Fk GMR**	**South Fk GMR**	**South Fk GMR**
River Mile	**143.2**	**143.1 *b***	**143.1 *b***	**129.99**	**129.99**	**6.31**	**6.31**	**3.95**	**3.95**
Date Sampled	**8/6/08**	**7/16/08**	**8/6/08**	**7/16/08**	**8/6/08**	**7/16/08**	**8/6/08**	**7/16/08**	**8/6/08**
PCB-1016	<0.11	<0.10	<0.11	<0.11	<0.11	<0.11	<0.10	<0.11	<0.10
PCB-1221	<0.11	<0.10	<0.11	<0.11	<0.11	<0.11	<0.10	<0.11	<0.10
PCB-1232	<0.11	<0.10	<0.11	<0.11	<0.11	<0.11	<0.10	<0.11	<0.10
PCB-1242	<0.11	<0.10	<0.11	<0.11	<0.11	<0.11	<0.10	<0.11	<0.10
PCB-1248	<0.11	<0.10	<0.11	<0.11	<0.11	<0.11	<0.10	<0.11	<0.10
PCB-1254	<0.11	<0.10	<0.11	<0.11	<0.11	<0.11	<0.10	<0.11	<0.10
PCB-1260	<0.11	<0.10	<0.11	<0.11	<0.11	<0.11	<0.10	<0.11	<0.10
Stream	**Van Horn Creek**	**Van Horn Creek**	**Muchinippi Creek**	**Muchinippi Creek**	**Bokengehala Creek**	**Bokengehala Creek**	**Blue Jacket Creek**	**Blue Jacket Creek**	**Bellef'taine WWTP**
River Mile	**0.97**	**0.97**	**0.32**	**0.32**	**1.13**	**1.13**	**5.39**	**5.39**	**0.5 *c***
Date Sampled	**7/17/08**	**8/7/08**	**7/17/08**	**8/7/08**	**7/16/08**	**8/6/08**	**7/16/08**	**8/6/08**	**7/16/08**
PCB-1016	<0.11	<0.11	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
PCB-1221	<0.11	<0.11	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
PCB-1232	<0.11	<0.11	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
PCB-1242	<0.11	<0.11	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
PCB-1248	<0.11	<0.11	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
PCB-1254	<0.11	<0.11	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
PCB-1260	<0.11	<0.11	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Stream	**Bellef'taine WWTP**	**Loramie Creek**	**Loramie Creek**	**Loramie Creek**	**Loramie Creek**	**L. Loramie WWTP**	**L. Loramie WWTP**	**Loramie Creek**	**Loramie Creek**
River Mile	**0.5 *c***	**34.96**	**34.96**	**30.42**	**30.42**	**21.1 *d***	**21.1 *d***	**18.82**	**16.51**
Date Sampled	**8/6/08**	**7/15/08**	**8/5/08**	**7/15/08**	**8/5/08**	**7/15/08**	**8/5/08**	**8/5/08**	**7/15/08**
PCB-1016	<0.10	<0.10	<0.10	<0.11	<0.11	<0.10	<0.10	<0.11	<0.10
PCB-1221	<0.10	<0.10	<0.10	<0.11	<0.11	<0.10	<0.10	<0.11	<0.10
PCB-1232	<0.10	<0.10	<0.10	<0.11	<0.11	<0.10	<0.10	<0.11	<0.10
PCB-1242	<0.10	<0.10	<0.10	<0.11	<0.11	<0.10	<0.10	<0.11	<0.10
PCB-1248	<0.10	<0.10	<0.10	<0.11	<0.11	<0.10	<0.10	<0.11	<0.10
PCB-1254	<0.10	<0.10	<0.10	<0.11	<0.11	<0.10	<0.10	<0.11	<0.10
PCB-1260	<0.10	<0.10	<0.10	<0.11	<0.11	<0.10	<0.10	<0.11	<0.10
Stream	**Loramie Creek**	**Loramie Creek**	**Loramie Creek**	**Minster WWTP**	**Miami Erie Canal**	**Miami Erie Canal**	**Mile Creek**	**Mile Creek**	
River Mile	**16.51**	**1.87**	**1.87**	**1.8 *e***	**0.1**	**0.1**	**0.5**	**0.5**	
Date Sampled	**08/05/08**	**7/15/08**	**8/5/08**	**08/05/08**	**7/15/08**	**8/5/08**	**7/15/08**	**8/5/08**	
PCB-1016	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.11	<0.11	
PCB-1221	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.11	<0.11	
PCB-1232	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.11	<0.11	
PCB-1242	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.11	<0.11	
PCB-1248	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.11	<0.11	
PCB-1254	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.11	<0.11	
PCB-1260	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.11	<0.11	

< Less than the method detection limit (MDL value reported with the less than symbol).
J The analyte was positively identified, the associated numerical value is estimated.
UJ Estimated due to poor QC recovery / poor surrogate recovery / or poor matrix spike recovery
B Detected in laboratory blanks
PT Result is estimated because the sample was not analyzed within the required holding time.
R The analyte result is unusable because quality control criteria was not met.
a Indian Lake WWTP effluent discharges to Great Miami River at RM 158.05
b Quincy-Degraff WWTP effluent discharges to Great Miami River at RM 143.1
c Bellefontaine WWTP effluent discharges to Opossum Run at RM 0.5
d Lake Loramie WWTP effluent discharges to Loramie Creek at RM 21.1
e Minster WWTP effluent discharges to the Miami Erie Canal at RM 1.8

Appendix Table A-3 Upper Great Miami River Watershed Bacteria Sampling Results (2008)

Station ID	SWDO Map #	Location	River Mile	WAU 05080001-	Date	E. coli (#/100 ml)
H01W13	# 1	GREAT MIAMI R. 0.1 MI. UPST. LOGAN CO. INDIAN LAKE WWTP	158.2	03 - 02	9/3/2008	130 JL
				-	9/4/2008	570
				-	9/9/2008	4700
				-	9/10/2008	870 JL
				-	9/11/2008	210
H01P04	# 3	GREAT MIAMI R. AT RUSSELS POINT @ ST. RT. 235	157.22	03 - 02	9/3/2008	80 JL
				-	9/4/2008	260
				-	9/9/2008	1700 JL
				-	9/10/2008	760
				-	9/11/2008	290
H01S20	# 5	GREAT MIAMI R. AT DEGRAFF @ ST. RT. 235	146.19	03 - 06	9/3/2008	100 JL
				-	9/4/2008	100 JL
				-	9/9/2008	1200 JL
				-	9/10/2008	3800
				-	9/11/2008	330
H01W05	# 6	GREAT MIAMI R. AT QUINCY @ ST. RT. 235	143.2	04 - 06	9/3/2008	30 JL
				-	9/4/2008	70 JL
				-	9/9/2008	270
				-	9/10/2008	400
				-	9/11/2008	140 JL
H01S18	# 8	GREAT MIAMI R. DST QUINCY @ RR BRIDGE	142.5	04 - 06	9/3/2008	10 JL
				-	9/4/2008	20 JL
				-	9/9/2008	350
				-	9/10/2008	350
				-	9/11/2008	140 JL
H02P12	# 10	GREAT MIAMI R. AT SIDNEY @ ST. RT. 47	129.99	07 - 03	9/3/2008	60 JL
				-	9/4/2008	10 JL
				-	9/10/2008	1400 JL
				-	9/11/2008	260

J - Estimated due to high count of background bacteria JL - Estimated; computed using a colony count that is not within the acceptable counting range.

Appendix Table A-3 Upper Great Miami River Watershed Bacteria Sampling Results (2008)

Station ID	SWDO Map #	Location	River Mile	WAU 05080001-	Date	E. coli (#/100 ml)
H01P03	# 19	N. FK. GREAT MIAMI R. SE OF ROUNDHEAD @ DUNN RD.	6.31	01 - 01	9/3/2008	270
				-	9/4/2008	530
				-	9/9/2008	950 JL
				-	9/10/2008	1000 JL
				-	9/11/2008	320
H01S11	# 14	S. FK. GREAT MIAMI R. DST. BELLE CENTER @ CO. RD. 96	3.95	01 - 02	9/3/2008	660
				-	9/4/2008	850 JL
				-	9/9/2008	43000
				-	9/10/2008	1100 JL
				-	9/11/2008	790 JL
201083	# 21	MUCHINIPPI CREEK AT NEW HAMPSHIRE, UPST. U.S. RT. 33	12.5	02 - 02	9/3/2008	660
				-	9/4/2008	850 JL
				-	9/9/2008	28000
				-	9/10/2008	690
				-	9/11/2008	810 JL
H01P08	# 25	MUCHINIPPI CREEK E OF BLOOM CENTER @ CO. RD. 60	0.32	02 - 04	9/3/2008	20 JL
				-	9/4/2008	30 JL
				-	9/9/2008	800
				-	9/10/2008	540
				-	9/11/2008	60 JL
H01K15	# 32	WILLOW CREEK N OF SANTA FE @ IDLE RD.	0.44	02 - 01	9/3/2008	90 JL
				-	9/4/2008	200
				-	9/9/2008	230
				-	9/10/2008	120 JL
				-	9/11/2008	100 JL
H01K12	# 28	L. MUCHINIPPI CREEK @ GRAVEL ROAD NEAR MOUTH	0.62	02 - 03	9/3/2008	80 JL
				-	9/4/2008	100 JL
				-	9/9/2008	670
				-	9/10/2008	80 JL
				-	9/11/2008	20 JL

J - Estimated due to high count of background bacteria JL - Estimated; computed using a colony count that is not within the acceptable counting range.

Appendix Table A-3 Upper Great Miami River Watershed Bacteria Sampling Results (2008)

Station ID	SWDO Map #	Location	River Mile	WAU 05080001-	Date	E. coli (#/100 ml)
H01P10	# 30	JACKSON CENTER CREEK DST. JACKSON CENTER WWTP @ LOCK TWO RD.	1.8	02 - 03	9/3/2008	80 JL
				-	9/4/2008	140 J,JL
				-	9/9/2008	2300
				-	9/10/2008	430
				-	9/11/2008	320
H01K07	# 44	RUM CREEK NEAR MOUTH @ CO. RD. 58	0.79	03 - 03	9/3/2008	70 JL
				-	9/4/2008	60 JL
				-	9/9/2008	3900
				-	9/11/2008	200
H01S23	# 35	BOKENGEHALAS CREEK W OF BELLEFONTAINE, TWP RD. 31	7.88	03 - 05	9/3/2008	260
				-	9/4/2008	170 JL
				-	9/9/2008	1300 JL
				-	9/10/2008	210
				-	9/11/2008	90 JL
H01K01	# 37	BOKENGEHALAS CREEK AT DEGRAFF @ MIAMI ST.	1.13	03 - 05	9/3/2008	380
				-	9/4/2008	530
				-	9/9/2008	2800
				-	9/10/2008	800 JL
				-	9/11/2008	390
H01P12	# 39	BLUE JACKET CREEK @ CO. RD. 11 (UPSTREAM CROSSING), DST WWTP	5.39	03 - 04	9/3/2008	320
				-	9/4/2008	170 JL
				-	9/9/2008	1700 JL
				-	9/10/2008	270
				-	9/11/2008	240
600010	# 53	STONY CREEK NEAR DEGRAFF @ TWP. RD. 65-A	1.58	04 - 03	9/3/2008	230
				-	9/4/2008	1900 JL
				-	9/9/2008	3400
				-	9/10/2008	320
				-	9/11/2008	330

J - Estimated due to high count of background bacteria JL - Estimated; computed using a colony count that is not within the acceptable counting range.

Appendix Table A-3 Upper Great Miami River Watershed Bacteria Sampling Results (2008)

Station ID	SWDO Map #	Location	River Mile	WAU 05080001-	Date	E. coli (#/100 ml)
H01S06	# 58	MCKEES CREEK E OF DEGRAFF @ CO. RD. 31	0.52	04 - 01	9/3/2008	550
				-	9/4/2008	690
				-	9/9/2008	1700 JL
				-	9/10/2008	420
				-	9/11/2008	500
H01K05	# 55	GRAVES CREEK SE OF DEGRAFF @ TWP. RD. 295	0.48	04 - 02	9/3/2008	410
				-	9/4/2008	2500
				-	9/9/2008	2700
				-	9/10/2008	600
				-	9/11/2008	720
H01K03	# 51	INDIAN CREEK NW OF QUINCY @ MOUTH	0.01	04 - 04	9/3/2008	280
				-	9/4/2008	370
				-	9/9/2008	3900
				-	9/10/2008	780
				-	9/11/2008	470
H02K09	# 50	PLUM CREEK AT SIDNEY @ CANAL FEEDER RD.	0.13	04 - 05	9/3/2008	140 JL
				-	9/4/2008	290
				-	9/9/2008	3100
				-	9/10/2008	760
				-	9/11/2008	220
H02S28	# 59	LORAMIE CREEK E OF BOTKINS @ BOTKINS RD.	36.84	05 - 01	9/3/2008	10 JL
				-	9/4/2008	80 JL
				-	9/9/2008	660
				-	9/10/2008	120 JL
				-	9/11/2008	10 JL
H02W02	# 60	LORAMIE CREEK S OF BOTKINS @ LOCK TWO RD. (DST WWTP)	34.96	05 - 01	9/3/2008	3400
				-	9/4/2008	4800
				-	9/9/2008	11000 J,JL
				-	9/10/2008	4500
				-	9/11/2008	4800

J - Estimated due to high count of background bacteria JL - Estimated; computed using a colony count that is not within the acceptable counting range.

Appendix Table A-3 Upper Great Miami River Watershed Bacteria Sampling Results (2008)

Station ID	SWDO Map #	Location	River Mile	WAU 05080001-	Date	E. coli (#/100 ml)
H02S27	# 61	LORAMIE CREEK SW OF BOTKINS @ HARDIN-WAPAKONETA RD.	30.42	05 - 01	9/3/2008	90 JL
				-	9/4/2008	120 JL
				-	9/9/2008	5600
				-	9/10/2008	970 JL
				-	9/11/2008	240
H02S06	# 62	LORAMIE CREEK @ LORAMIE LAKE DAM	22.1	05 - 03	9/3/2008	860 JL
				-	9/4/2008	910 JL
				-	9/9/2008	1600 JL
				-	9/10/2008	260
				-	9/11/2008	390
H02W44	# 64	LORAMIE CREEK AT FORT LORAMIE @ ST. RT. 66	20.7	05 - 03	9/3/2008	470
				-	9/4/2008	340
				-	9/9/2008	3700
				-	9/10/2008	390
				-	9/11/2008	250
H02W45	# 72	LORAMIE CREEK AT FORT LORAMIE @ SCHLATER RD.	18.82	06 - 02	9/3/2008	110 JL
				-	9/4/2008	50 JL
				-	9/9/2008	2900
				-	9/10/2008	420
				-	9/11/2008	190 JL
H02S24	# 73	LORAMIE CREEK S OF FORT LORAMIE @ CARDO-ROMAN RD.	16.51	06 - 02	9/3/2008	<10
				-	9/4/2008	220
				-	9/9/2008	300
				-	9/10/2008	330
				-	9/11/2008	<10
600320	# 76	LORAMIE CREEK NEAR LOCKINGTON @ FESSLER-BUXTON RD.	1.87	06 - 04	9/4/2008	20 JL
				-	9/9/2008	2200
				-	9/10/2008	680
				-	9/11/2008	260

J - Estimated due to high count of background bacteria JL - Estimated; computed using a colony count that is not within the acceptable counting range.

Appendix Table A-3 Upper Great Miami River Watershed Bacteria Sampling Results (2008)

Station ID	SWDO Map #	Location	River Mile	WAU 05080001-	Date	E. coli (#/100 ml)
H02S14	# 66	MIAMI-ERIE CANAL @ CONFL WITH LORAMIE CREEK	0.01	05- 03	9/3/2008	240
				-	9/4/2008	400
				-	9/9/2008	3300
				-	9/10/2008	370
				-	9/11/2008	260
H02K05	# 69	MILE CREEK NE OF OSGOOD @ KREMER RD.	5.97	05- 02	9/3/2008	410 J
				-	9/4/2008	260 J
				-	9/9/2008	4900
				-	9/10/2008	430
				-	9/11/2008	310
H02P04	# 70	MILE CREEK W OF FORT LORAMIE @ ST. RT. 705	0.5	05- 02	9/3/2008	60 JL
				-	9/4/2008	30 JL
				-	9/9/2008	260
				-	9/10/2008	130 JL
				-	9/11/2008	40 JL
H02K08	# 71	SPRING CREEK W OF FORT LORAMIE @ BAUMER-BRANDEWIE RD.	0.37	05- 02	9/3/2008	<10
				-	9/4/2008	<10
				-	9/9/2008	2000
				-	9/10/2008	640
				-	9/11/2008	180 JL
H02S10	# 81	NINEMILE CREEK @ RANGE LINE RD. (DST RUSSIA WWTP)	4.18	06- 01	9/3/2008	140 JL
				-	9/4/2008	110 JL
				-	9/9/2008	8800 JL
				-	9/10/2008	970 JL
				-	9/11/2008	440
H02K03	# 82	NINEMILE CREEK NEAR MOUTH @ ROETH RD.	0.23	06- 01	9/3/2008	140 JL
				-	9/4/2008	120 JL
				-	9/9/2008	5300
				-	9/10/2008	230
				-	9/11/2008	50 JL

J - Estimated due to high count of background bacteria JL - Estimated; computed using a colony count that is not within the acceptable counting range.

Appendix Table A-3 Upper Great Miami River Watershed Bacteria Sampling Results (2008)

Station ID	SWDO Map #	Location	River Mile	WAU 05080001-	Date	E. coli (#/100 ml)
H02P10	# 79	TURTLE CREEK N OF LOCKINGTON @ STANGEL RD.	0.43	06 - 03	9/3/2008	40 JL
				-	9/4/2008	90 JL
				-	9/10/2008	370
				-	9/11/2008	40 JL

J - Estimated due to high count of background bacteria JL - Estimated; computed using a colony count that is not within the acceptable counting range.

Appendix Table A-4 Upper Great Miami River Watershed Bacteria Sampling Results (2009)

Station ID	SWDO Map #	Location	River Mile	WAU 05080001-	Date	E. coli (#/100 ml)
H01P04	# 3	GREAT MIAMI R. AT RUSSELS POINT @ ST. RT. 235	157.22	03 - 02	8/26/2009	579
H02P12	# 10	GREAT MIAMI R. AT SIDNEY @ ST. RT. 47	129.99	07 - 03	6/4/2009	470
				-	7/8/2009	50 JL
				-	7/23/2009	400 J,JL
				-	8/3/2009	50 JL
				-	8/19/2009	90 JL
				-	8/27/2009	1300
				-	8/31/2009	1300 JL
				-	9/24/2009	250
				-	10/1/2009	60 JL
				-	10/7/2009	340
				-	10/22/2009	40 JL
				-	10/23/2009	2420
H01P03	# 19	N. FK. GREAT MIAMI R. SE OF ROUNDHEAD @ DUNN RD.	6.31	01 - 01	7/15/2009	1990
				-	8/26/2009	72.7
H01S11	# 14	S. FK. GREAT MIAMI R. DST. BELLE CENTER @ CO. RD. 96	3.95	01 - 02	7/15/2009	1050
				-	8/26/2009	1730
H01P08	# 25	MUCHINIPPI CREEK E OF BLOOM CENTER @ CO. RD. 60	0.32	02 - 04	8/26/2009	178
H01K01	# 37	BOKENGEHALAS CREEK AT DEGRAFF @ MIAMI ST.	1.13	03 - 05	7/15/2009	687
				-	8/26/2009	649
H02S24	# 73	LORAMIE CREEK S OF FORT LORAMIE @ CARDO-ROMAN RD.	16.51	06 - 02	7/15/2009	2920
				-	8/3/2009	60 JL
				-	8/19/2009	100 J,JL
				-	8/26/2009	172
				-	8/31/2009	110 JL
				-	9/24/2009	20 JL
				-	10/1/2009	60 JL
				-	10/7/2009	200 J,JL
				-	10/22/2009	< 10
				-	10/28/2009	1120

J - Estimated due to high count of background bacteria JL - Estimated; computed using a colony count that is not within the acceptable counting range.

Appendix Table A-4 Upper Great Miami River Watershed Bacteria Sampling Results (2009)

Station ID	SWDO Map #	Location	River Mile	WAU 05080001-	Date	E. coli (#/100 ml)
600320	# 76	LORAMIE CREEK NEAR LOCKINGTON @ FESSLER-BUXTON RD.	1.87	06 - 04	7/15/2009	921
				-	8/3/2009	180 JL
				-	8/19/2009	90 JL
				-	8/26/2009	130
				-	8/31/2009	250
				-	9/24/2009	100 JL
				-	10/1/2009	70 JL
				-	10/7/2009	80 JL
				-	10/22/2009	10 JL
				-	10/28/2009	1410
H02P04	# 70	MILE CREEK W OF FORT LORAMIE @ ST. RT. 705	0.5	05 - 02	8/26/2009	1050

J - Estimated due to high count of background bacteria JL - Estimated; computed using a colony count that is not within the acceptable counting range.

Appendix Table A-5. Summary of data recorded with datasonde continuous monitors in the Upper Great Miami River study area during 2008 and 2009.

Stream	River Mile	Station ID	#Records	Temperature (C)				pH (SU)				Sp Conductivity (mS/cm)				Dissolved Oxygen (mg/l)			
				Min	Ave	Max	Range	Min	Ave	Max	Range	Min	Ave	Max	Range	Min	Ave	Max	Range
Dates sampled: Sept 3-5, 2008																			
Great Miami River	158.2	H01W13	48	20.83	22.12	23.21	2.38	7.93	8.03	8.07	0.14	0.719	0.728	0.735	0.016	4.87	5.46	5.75	0.88
Great Miami River	157.27	H01P04	47	20.87	21.99	23.42	2.55	7.71	7.75	7.77	0.06	1.059	1.145	1.190	0.131	5.04	5.30	5.68	0.64
Great Miami River	156.36	610100	47	20.73	22.03	23.34	2.61	7.76	7.82	7.85	0.09	1.101	1.145	1.181	0.080	4.48	4.65	4.79	0.31
Great Miami River	142.5	H01S18	44	21.64	23.07	25.19	3.55	8.02	8.14	8.24	0.22	0.752	0.760	0.768	0.016	6.48	7.80	10.03	3.55
Great Miami River	138.39	610020	50	21.91	23.22	25.10	3.19	8.18	8.24	8.35	0.17	0.739	0.752	0.760	0.021	6.07	7.10	9.14	3.07
Great Miami River	129.99	H02P12	49	22.92	24.11	26.29	3.37	8.03	8.13	8.28	0.25	0.692	0.751	0.783	0.091	7.12	7.86	10.13	3.01
North Fork Great Miami River	6.31	H01P03	50	20.88	22.45	23.91	3.03	7.68	7.80	7.91	0.23	0.560	0.569	0.570	0.010	3.86	6.01	8.04	4.18
South Fork Great Miami River	3.95	H01S11	50	20.51	21.99	23.68	3.17	7.84	7.97	8.05	0.21	0.821	0.831	0.837	0.016	4.34	6.45	8.64	4.30
Muchinippi Creek	12.5	201083	50	20.93	24.33	27.70	6.77	8.03	8.23	8.48	0.45	0.880	0.919	1.040	0.160	3.27	6.31	8.59	5.32
Muchinippi Creek	0.32	H01P08	50	21.28	22.51	23.56	2.28	7.49	7.57	7.63	0.14	0.710	0.724	0.731	0.021	2.04	2.49	3.44	1.40
Little Muchinippi Creek	0.62	H01K12	49	20.40	23.19	28.84	8.44	7.59	7.93	8.76	1.17	0.310	0.310	0.310	0.000	1.94	6.80	19.24	17.30
Bokengehalas Creek	1.13	H01K01	48	20.98	22.61	24.62	3.64	8.26	8.45	8.60	0.34	0.955	0.969	0.980	0.025	6.88	8.10	10.58	3.70
Blue Jacket Creek	5.5	H01P12	47	19.98	21.50	24.00	4.02	7.87	7.99	8.17	0.30	1.610	1.879	1.960	0.350	5.81	7.20	9.84	4.03
Stony Creek	1.58	600010	47	18.74	21.53	25.94	7.20	8.06	8.22	8.41	0.35	0.600	0.617	0.640	0.040	6.67	8.38	12.14	5.47
Loramie Creek	30.42	H02S27	45	20.99	22.62	25.10	4.11	7.97	8.03	8.09	0.12	2.300	2.410	2.460	0.160	4.92	6.48	8.38	3.46
Loramie Creek	22.1	H02S06	45	23.04	24.17	25.30	2.26	7.46	7.58	7.78	0.32	0.430	0.430	0.430	0.000				
Loramie Creek	20.7	H02W44	45	21.21	23.92	28.60	7.39	7.31	7.39	7.50	0.19	2.110	2.200	2.260	0.150	5.72	7.41	11.13	5.41
Loramie Creek	16.51	H02S24	46	23.08	24.75	26.15	3.07	8.47	8.81	9.02	0.55	2.090	2.226	2.310	0.220	5.84	11.51	23.63	17.79
Loramie Creek	1.87	600320	48	20.79	21.83	23.22	2.43	7.57	7.66	7.76	0.19	0.853	0.864	0.877	0.024	4.64	6.15	8.42	3.78
Miami-Erie Canal	0.1	H02S14	45	21.11	23.70	27.82	6.71	7.45	7.53	7.69	0.24	1.510	1.704	1.980	0.470	5.00	7.32	12.15	7.15
Mile Creek	0.5	H02P04	46	22.76	25.58	29.19	6.43	7.50	7.70	7.92	0.42	1.490	1.508	1.580	0.090	3.33	5.89	8.71	5.38
Dates sampled: June 23-25, 2009																			
Great Miami River	159.5	600000	55	24.87	28.55	33.10	8.23	7.64	8.26	8.79	1.15	0.339	0.357	0.370	0.031	2.14	6.10	9.34	7.20
Great Miami River	158.1	H01W13	52	22.68	25.46	28.26	5.58					0.472	0.568	0.653	0.181	4.56	5.63	7.30	2.74
Great Miami River	157.3	H01P04	53	23.24	24.68	25.60	2.36	7.64	7.76	7.92	0.28	0.589	0.693	0.844	0.255	4.52	5.80	6.82	2.30
Great Miami River	153.5	H01S03	49	22.86	23.54	24.38	1.52	7.70	7.72	7.75	0.05	0.639	0.679	0.722	0.083	3.80	4.16	4.59	0.79
Great Miami River	148.6	H01S02	48	21.97	23.84	25.22	3.25	7.66	7.76	7.89	0.23	0.596	0.668	0.722	0.126				
Great Miami River	146.7	H01S20	54	22.86	24.25	25.84	2.98	7.74	7.85	8.01	0.27	0.558	0.613	0.667	0.109	5.21	6.56	8.28	3.07
Muchinippi Creek	0.32	H01P08	49	23.54	25.15	26.36	2.82	7.50	7.55	7.60	0.10	0.620	0.627	0.636	0.016	3.12	3.72	4.50	1.38
Cherokee Mans Run	0.01		54	20.80	23.27	25.39	4.59	8.05	8.10	8.16	0.11	0.659	0.723	0.732	0.073				
Brandywine Creek	0.58	H01K10	49	21.93	25.98	29.90	7.97	7.42	7.74	8.17	0.75	0.485	0.524	0.577	0.092	2.35	7.12	13.51	11.16
Rum Creek	0.79	H01K07	49	22.33	25.15	27.85	5.52	7.68	7.84	8.03	0.35	0.586	0.590	0.602	0.016	4.42	6.72	9.90	5.48
Blue Jacket Creek	6.31	H01P11	49	15.24	18.29	21.64	6.40	7.84	7.91	8.03	0.19	0.766	0.781	0.791	0.025	7.80	8.58	9.72	1.92
Blue Jacket Creek	5.39	H01P12	51	19.13	21.73	25.43	6.30	7.95	8.15	8.48	0.53	1.630	1.738	1.840	0.210	5.32	7.93	12.41	7.09

Appendix Table A-5. Continued

Stream	River Mile	Station ID	#Records	Temperature (C)				pH (SU)				Sp Conductivity (mS/cm)				Dissolved Oxygen (mg/l)			
				Min	Ave	Max	Range	Min	Ave	Max	Range	Min	Ave	Max	Range	Min	Ave	Max	Range
Dates sampled: July 7-9, 2009																			
Loramie Creek	22.1	H02S06	48	20.87	23.44	26.72	5.85	7.37	7.60	8.25	0.88	0.533	0.547	0.556	0.023	0.08	3.16	13.79	13.71
Loramie Creek	20.8		37	20.67	23.89	26.62	5.95	7.92	8.23	8.53	0.61	2.040	2.188	2.350	0.310	4.39	10.17	16.36	11.97
Loramie Creek	19.83	300712	44	20.32	23.40	28.16	7.84	8.15	8.51	8.90	0.75	1.870	2.298	2.690	0.820	3.01	11.84	23.60	20.59
Loramie Creek	19.1		47	21.10	24.79	29.72	8.62	8.50	8.76	8.98	0.48	1.252	1.576	1.850	0.598	6.51	14.95	25.10	18.59
Loramie Creek	16.51	H02S24	49	22.42	23.69	24.66	2.24	8.30	8.69	9.11	0.81	0.948	1.008	1.082	0.134	16.94	22.36	28.33	11.39
Loramie Creek	14.8	201075	50	22.87	25.59	28.25	5.38	8.41	8.81	9.06	0.65	1.032	1.081	1.129	0.097	5.77	12.65	19.34	13.57
Loramie Creek	7.67	H02S23	48	20.90	24.76	30.08	9.18	7.86	8.40	8.89	1.03	0.771	0.806	0.829	0.058	4.78	11.38	21.02	16.24
Loramie Creek	1.87	600320	48	20.04	21.72	24.27	4.23	7.83	8.29	8.68	0.85	0.620	0.646	0.670	0.050				
Miami-Erie Canal	0.1	H02S14	48	19.89	23.00	26.30	6.41	7.91	8.25	8.65	0.74	1.840	2.037	2.330	0.490	3.38	10.15	20.47	17.09
Mile Creek	0.5	H02P04	48	21.86	25.10	30.14	8.28	7.94	8.50	9.03	1.09	0.668	0.745	0.790	0.122	9.55	18.65	26.93	17.38
Ninemile Creek	0.23	H02K03	48	18.63	20.23	22.19	3.56	7.56	7.63	7.74	0.18	0.727	0.743	0.834	0.107	6.26	7.56	9.45	3.19

Appendix Table A - 6. Hourly data recorded with datasonde continuous monitors in the Upper Great Miami River study area in 2008.

GREAT MIAMI RIVER UPSTREAM INDIAN LAKE WWTP

River Mile: 158.2
Storet: H01W13
Flow Regime: Low Stable
Local Rainfall: Light-Discrete Span
Local Substrate: Sand/Silt
Local Depth (ft) 1
Local Velocity (ft/s): 0-0.1

Date	Time	Temp C	pH (SU)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Dissolved Oxygen (% sat)
9/3/2008	16:00	22.29	8.06	0.732	5.72	67.55
9/3/2008	17:00	22.59	8.05	0.732	5.64	66.99
9/3/2008	18:00	22.90	8.05	0.732	5.60	66.91
9/3/2008	19:00	23.16	8.05	0.732	5.68	68.21
9/3/2008	20:00	23.21	8.06	0.731	5.74	68.99
9/3/2008	21:00	23.15	8.06	0.731	5.73	68.79
9/3/2008	22:00	23.03	8.06	0.730	5.71	68.40
9/3/2008	23:00	22.88	8.07	0.730	5.75	68.68
9/4/2008	0:00	22.77	8.06	0.730	5.75	68.53
9/4/2008	1:00	22.64	8.06	0.730	5.68	67.53
9/4/2008	2:00	22.55	8.06	0.730	5.67	67.30
9/4/2008	3:00	22.48	8.06	0.729	5.54	65.67
9/4/2008	4:00	22.37	8.06	0.729	5.54	65.53
9/4/2008	5:00	22.23	8.06	0.729	5.56	65.59
9/4/2008	6:00	22.09	8.06	0.729	5.60	65.88
9/4/2008	7:00	21.91	8.06	0.729	5.63	66.00
9/4/2008	8:00	21.74	8.06	0.730	5.62	65.67
9/4/2008	9:00	21.62	8.04	0.730	5.60	65.28
9/4/2008	10:00	21.63	8.03	0.732	5.57	64.95
9/4/2008	11:00	21.77	8.03	0.734	5.57	65.12
9/4/2008	12:00	22.05	8.03	0.735	5.59	65.71
9/4/2008	13:00	22.19	8.04	0.735	5.59	65.89
9/4/2008	14:00	22.40	8.04	0.735	5.58	66.04
9/4/2008	15:00	22.49	8.04	0.734	5.55	65.80
9/4/2008	16:00	22.56	8.04	0.733	5.48	65.05
9/4/2008	17:00	22.60	8.03	0.731	5.49	65.22
9/4/2008	18:00	22.65	8.03	0.730	5.46	64.93
9/4/2008	19:00	22.69	8.03	0.730	5.45	64.86
9/4/2008	20:00	22.69	8.03	0.729	5.45	64.86
9/4/2008	21:00	22.63	8.03	0.728	5.45	64.78
9/4/2008	22:00	22.54	8.03	0.727	5.51	65.39
9/4/2008	23:00	22.42	8.03	0.726	5.42	64.17
9/5/2008	0:00	22.31	8.02	0.726	5.41	63.92
9/5/2008	1:00	22.16	8.02	0.725	5.34	62.91
9/5/2008	2:00	22.03	8.02	0.724	5.42	63.69
9/5/2008	3:00	21.90	8.02	0.721	5.56	65.17
9/5/2008	4:00	21.78	8.02	0.723	5.49	64.20
9/5/2008	5:00	21.69	8.01	0.720	5.40	63.04
9/5/2008	6:00	21.55	8.00	0.720	5.37	62.52
9/5/2008	7:00	21.40	8.00	0.721	5.29	61.40
9/5/2008	8:00	21.30	7.99	0.721	5.21	60.36
9/5/2008	9:00	21.20	7.95	0.722	5.02	58.04
9/5/2008	10:00	21.11	7.96	0.722	5.01	57.83
9/5/2008	11:00	21.03	7.96	0.720	5.04	58.08
9/5/2008	12:00	20.97	7.96	0.719	5.01	57.67
9/5/2008	13:00	20.90	7.95	0.719	4.96	57.01
9/5/2008	14:00	20.84	7.94	0.719	4.87	55.91
9/5/2008	15:00	20.83	7.93	0.720	4.89	56.13

Appendix Table A - 6. Continued.

GREAT MIAMI RIVER @ SR 235 (RUSSELLS POINT)

River Mile: 157.27
Storet: H01P04
Flow Regime: Low Stable
Local Rainfall: Light-Discrete Span
Local Substrate: Sand/Silt
Local Depth (ft) 1
Local Velocity (ft/s): 0.25-0.75

Date	Time	Temp C	pH (SU)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Dissolved Oxygen (% sat)
9/3/2008	16:00	23.42	7.75	1.100	5.68	68.54
9/3/2008	17:00	23.41	7.77	1.096	5.63	67.93
9/3/2008	18:00	23.36	7.77	1.102	5.58	67.26
9/3/2008	19:00	23.19	7.77	1.120	5.52	66.32
9/3/2008	20:00	22.97	7.77	1.140	5.44	65.09
9/3/2008	21:00	22.84	7.76	1.162	5.34	63.73
9/3/2008	22:00	22.72	7.76	1.180	5.30	63.11
9/3/2008	23:00	22.61	7.76	1.189	5.29	62.86
9/4/2008	0:00	22.45	7.76	1.190	5.27	62.43
9/4/2008	1:00	22.29	7.76	1.190	5.27	62.24
9/4/2008	2:00	22.13	7.76	1.190	5.20	61.22
9/4/2008	3:00	21.97	7.75	1.187	5.15	60.45
9/4/2008	4:00	21.82	7.75	1.186	5.11	59.80
9/4/2008	5:00	21.69	7.74	1.188	5.06	59.07
9/4/2008	6:00	21.53	7.74	1.188	5.08	59.12
9/4/2008	7:00	21.41	7.74	1.186	5.05	58.63
9/4/2008	8:00	21.32	7.73	1.185	5.04	58.41
9/4/2008	9:00	21.34	7.73	1.187	5.08	58.90
9/4/2008	10:00	21.62	7.73	1.188	5.20	60.62
9/4/2008	11:00	22.02	7.74	1.187	5.36	62.97
9/4/2008	12:00	22.47	7.75	1.181	5.57	66.01
9/4/2008	13:00	22.59	7.75	1.161	5.57	66.16
9/4/2008	14:00	22.71	7.76	1.137	5.59	66.55
9/4/2008	15:00	22.68	7.77	1.115	5.56	66.16
9/4/2008	16:00	22.53	7.77	1.102	5.53	65.61
9/4/2008	17:00	22.43	7.77	1.094	5.47	64.77
9/4/2008	18:00	22.38	7.77	1.095	5.37	63.53
9/4/2008	19:00	22.38	7.76	1.106	5.32	62.94
9/4/2008	20:00	22.39	7.76	1.125	5.27	62.36
9/4/2008	21:00	22.32	7.76	1.145	5.26	62.16
9/4/2008	22:00	22.22	7.75	1.156	5.24	61.80
9/4/2008	23:00	22.09	7.75	1.164	5.22	61.41
9/5/2008	0:00	21.98	7.75	1.167	5.19	60.93
9/5/2008	1:00	21.81	7.75	1.165	5.20	60.84
9/5/2008	2:00	21.63	7.75	1.166	5.26	61.33
9/5/2008	3:00	21.47	7.77	1.155	5.44	63.23
9/5/2008	4:00	21.36	7.75	1.147	5.32	61.70
9/5/2008	5:00	21.23	7.75	1.150	5.32	61.55
9/5/2008	6:00	21.13	7.74	1.106	5.47	63.16
9/5/2008	7:00	21.02	7.74	1.136	5.30	61.06
9/5/2008	8:00	20.98	7.72	1.130	5.19	59.75
9/5/2008	9:00	20.92	7.72	1.134	5.18	59.57
9/5/2008	10:00	20.90	7.71	1.116	5.10	58.62
9/5/2008	11:00	20.87	7.71	1.095	5.09	58.47
9/5/2008	12:00	20.88	7.71	1.090	5.09	58.48
9/5/2008	13:00	20.89	7.71	1.077	5.16	59.30
9/5/2008	14:00	20.94	7.71	1.059	5.14	59.13

Appendix Table A - 6. Continued.

GREAT MIAMI RIVER @ SR 274

River Mile: 156.36
Storet: 610100
Flow Regime: Low Stable
Local Rainfall: Light-Discrete Span
Local Substrate: Sand/Silt
Local Depth (ft) 1.2
Local Velocity (ft/s): 0.25-0.75

Date	Time	Temp C	pH (SU)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Dissolved Oxygen (% sat)
9/3/2008	16:00	22.67	7.76	1.177	4.70	55.91
9/3/2008	17:00	22.90	7.79	1.178	4.69	56.04
9/3/2008	18:00	23.07	7.80	1.172	4.67	55.98
9/3/2008	19:00	23.23	7.81	1.160	4.66	56.03
9/3/2008	20:00	23.30	7.81	1.144	4.65	55.99
9/3/2008	21:00	23.34	7.82	1.128	4.64	55.91
9/3/2008	22:00	23.31	7.83	1.115	4.62	55.64
9/3/2008	23:00	23.21	7.83	1.106	4.66	56.01
9/4/2008	0:00	23.07	7.84	1.101	4.69	56.22
9/4/2008	1:00	22.87	7.84	1.103	4.70	56.13
9/4/2008	2:00	22.65	7.84	1.110	4.68	55.65
9/4/2008	3:00	22.41	7.85	1.123	4.70	55.63
9/4/2008	4:00	22.19	7.85	1.138	4.69	55.28
9/4/2008	5:00	21.99	7.84	1.152	4.69	55.07
9/4/2008	6:00	21.79	7.84	1.165	4.73	55.32
9/4/2008	7:00	21.61	7.84	1.174	4.72	55.01
9/4/2008	8:00	21.43	7.84	1.178	4.70	54.59
9/4/2008	9:00	21.35	7.83	1.180	4.68	54.27
9/4/2008	10:00	21.44	7.83	1.180	4.66	54.13
9/4/2008	11:00	21.60	7.83	1.180	4.67	54.42
9/4/2008	12:00	21.69	7.82	1.180	4.65	54.28
9/4/2008	13:00	21.81	7.82	1.180	4.65	54.41
9/4/2008	14:00	21.96	7.82	1.180	4.60	53.98
9/4/2008	15:00	22.03	7.81	1.179	4.52	53.11
9/4/2008	16:00	22.16	7.81	1.180	4.49	52.89
9/4/2008	17:00	22.29	7.80	1.180	4.48	52.91
9/4/2008	18:00	22.44	7.80	1.181	4.51	53.42
9/4/2008	19:00	22.58	7.81	1.178	4.56	54.15
9/4/2008	20:00	22.67	7.81	1.167	4.61	54.84
9/4/2008	21:00	22.67	7.82	1.152	4.66	55.44
9/4/2008	22:00	22.59	7.83	1.134	4.69	55.71
9/4/2008	23:00	22.44	7.84	1.119	4.73	56.02
9/5/2008	0:00	22.25	7.84	1.109	4.71	55.58
9/5/2008	1:00	22.04	7.84	1.104	4.74	55.71
9/5/2008	2:00	21.89	7.84	1.106	4.70	55.08
9/5/2008	3:00	21.72	7.85	1.112	4.79	55.95
9/5/2008	4:00	21.54	7.84	1.124	4.79	55.75
9/5/2008	5:00	21.41	7.84	1.137	4.71	54.68
9/5/2008	6:00	21.27	7.83	1.138	4.72	54.65
9/5/2008	7:00	21.07	7.83	1.140	4.77	55.01
9/5/2008	8:00	21.00	7.83	1.142	4.70	54.13
9/5/2008	9:00	20.90	7.82	1.144	4.63	53.22
9/5/2008	10:00	20.81	7.81	1.156	4.57	52.44
9/5/2008	11:00	20.74	7.80	1.140	4.59	52.59
9/5/2008	12:00	20.73	7.80	1.105	4.58	52.47
9/5/2008	13:00	20.73	7.79	1.105	4.51	51.67
9/5/2008	14:00	20.75	7.78	1.101	4.48	51.34

Appendix Table A - 6. Continued.

GREAT MIAMI RIVER DST QUINCY WWTP

River Mile: 142.5
Storet: H01S18
Flow Regime: Low Stable
Local Rainfall: Light-Discrete Span
Local Substrate: Gravel/Sand
Local Depth (ft) 2
Local Velocity (ft/s): 0.25-0.75

Date	Time	Temp C	pH (SU)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Dissolved Oxygen (% sat)
9/3/2008	15:00	24.92	8.19	0.752	10.03	124.49
9/3/2008	16:00	25.19	8.23	0.752	9.99	124.61
9/3/2008	17:00	25.09	8.24	0.753	9.94	123.76
9/3/2008	18:00	24.72	8.24	0.755	9.62	118.96
9/3/2008	19:00	24.68	8.24	0.756	9.19	113.56
9/3/2008	20:00	24.18	8.21	0.758	8.70	106.50
9/3/2008	21:00	24.03	8.19	0.760	8.17	99.73
9/3/2008	22:00	23.65	8.17	0.762	7.86	95.26
9/3/2008	23:00	23.57	8.15	0.762	7.68	92.94
9/4/2008	0:00	23.48	8.16	0.760	7.67	92.66
9/4/2008	1:00	23.36	8.15	0.760	7.51	90.52
9/4/2008	2:00	23.10	8.13	0.759	7.35	88.16
9/4/2008	3:00	22.86	8.11	0.758	7.26	86.68
9/4/2008	4:00	22.60	8.11	0.758	7.23	85.89
9/4/2008	5:00	22.36	8.10	0.758	7.22	85.38
9/4/2008	6:00	22.21	8.09	0.759	7.12	83.96
9/4/2008	7:00	22.07	8.08	0.760	7.06	83.02
9/4/2008	8:00	21.95	8.08	0.761	7.03	82.48
9/4/2008	9:00	21.98	8.08	0.763	7.16	84.05
9/4/2008	10:00	22.22	8.10	0.764	7.61	89.75
9/4/2008	11:00	22.64	8.13	0.762	8.14	96.78
9/4/2008	12:00	23.36	8.18	0.760	8.87	106.92
9/4/2008	13:00	23.80	8.20	0.759	9.22	112.06
9/4/2008	14:00	24.07	8.21	0.759	9.21	112.51
9/4/2008	15:00	23.98	8.21	0.759	9.00	109.76
9/4/2008	16:00	23.67	8.19	0.757	8.67	105.12
9/4/2008	17:00	23.35	8.18	0.758	8.46	101.96
9/4/2008	18:00	23.06	8.16	0.760	8.17	97.92
9/4/2008	19:00	22.94	8.14	0.762	7.94	94.95
9/4/2008	20:00	22.91	8.13	0.763	7.54	90.11
9/4/2008	21:00	22.87	8.12	0.766	7.28	86.94
9/4/2008	22:00	22.95	8.12	0.768	7.19	85.99
9/4/2008	23:00	23.00	8.12	0.768	7.17	85.84
9/5/2008	0:00	22.96	8.12	0.767	7.13	85.29
9/5/2008	1:00	22.83	8.11	0.766	7.06	84.25
9/5/2008	2:00	22.71	8.11	0.765	7.04	83.81
9/5/2008	3:00	22.60	8.12	0.764	7.07	83.99
9/5/2008	4:00	22.45	8.11	0.762	6.94	82.21
9/5/2008	5:00	22.17	8.08	0.761	6.81	80.24
9/5/2008	6:00	21.95	8.05	0.756	6.70	78.61
9/5/2008	7:00	21.76	8.03	0.757	6.55	76.57
9/5/2008	8:00	21.67	8.02	0.759	6.48	75.61
9/5/2008	9:00	21.64	8.02	0.759	6.49	75.69
9/5/2008	10:00	21.65	8.03	0.759	6.56	76.52

Appendix Table A - 6. Continued.

GREAT MIAMI RIVER @ PENCE/BAKER RD

River Mile: 138.39
Storet: 610020
Flow Regime: Low Stable
Local Rainfall: Light-Discrete Span
Local Substrate: Gravel/Silt
Local Depth (ft) 2
Local Velocity (ft/s): 0.1-0.25

Date	Time	Temp C	pH (SU)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Dissolved Oxygen (% sat)
9/3/2008	16:00	25.05	8.27	0.742	9.14	113.72
9/3/2008	17:00	25.09	8.30	0.744	8.87	110.44
9/3/2008	18:00	25.10	8.30	0.746	8.56	106.60
9/3/2008	19:00	24.94	8.28	0.747	8.16	101.32
9/3/2008	20:00	24.64	8.26	0.749	7.70	95.07
9/3/2008	21:00	24.28	8.24	0.750	7.26	89.04
9/3/2008	22:00	23.95	8.22	0.752	6.91	84.22
9/3/2008	23:00	23.63	8.20	0.753	6.68	80.93
9/4/2008	0:00	23.36	8.19	0.754	6.54	78.83
9/4/2008	1:00	23.14	8.18	0.755	6.44	77.30
9/4/2008	2:00	22.98	8.18	0.755	6.41	76.71
9/4/2008	3:00	22.84	8.18	0.756	6.34	75.67
9/4/2008	4:00	22.77	8.18	0.756	6.43	76.64
9/4/2008	5:00	22.68	8.19	0.756	6.38	75.91
9/4/2008	6:00	22.61	8.19	0.755	6.32	75.10
9/4/2008	7:00	22.52	8.20	0.755	6.31	74.85
9/4/2008	8:00	22.45	8.20	0.755	6.31	74.75
9/4/2008	9:00	22.46	8.21	0.755	6.44	76.30
9/4/2008	10:00	22.75	8.23	0.755	6.85	81.61
9/4/2008	11:00	23.33	8.26	0.755	7.56	91.07
9/4/2008	12:00	24.03	8.30	0.755	8.30	101.32
9/4/2008	13:00	24.33	8.33	0.754	8.79	107.91
9/4/2008	14:00	24.49	8.35	0.754	9.05	111.43
9/4/2008	15:00	24.58	8.34	0.755	9.08	111.99
9/4/2008	16:00	24.60	8.35	0.755	8.93	110.18
9/4/2008	17:00	24.53	8.34	0.755	8.41	103.63
9/4/2008	18:00	24.38	8.31	0.756	7.97	97.93
9/4/2008	19:00	24.21	8.29	0.757	7.58	92.84
9/4/2008	20:00	23.96	8.27	0.758	7.16	87.29
9/4/2008	21:00	23.69	8.24	0.759	6.83	82.84
9/4/2008	22:00	23.42	8.23	0.759	6.61	79.77
9/4/2008	23:00	23.25	8.21	0.760	6.47	77.83
9/5/2008	0:00	23.02	8.21	0.759	6.45	77.25
9/5/2008	1:00	22.80	8.20	0.760	6.39	76.21
9/5/2008	2:00	22.66	8.20	0.760	6.39	76.00
9/5/2008	3:00	22.51	8.21	0.752	6.56	77.80
9/5/2008	4:00	22.38	8.21	0.751	6.48	76.66
9/5/2008	5:00	22.29	8.20	0.752	6.41	75.70
9/5/2008	6:00	22.16	8.21	0.744	6.52	76.81
9/5/2008	7:00	22.08	8.21	0.741	6.45	75.86
9/5/2008	8:00	22.01	8.21	0.739	6.40	75.17
9/5/2008	9:00	21.98	8.20	0.742	6.31	74.07
9/5/2008	10:00	21.94	8.19	0.742	6.28	73.67
9/5/2008	11:00	21.91	8.19	0.742	6.28	73.62
9/5/2008	12:00	21.96	8.20	0.743	6.45	75.69
9/5/2008	13:00	22.09	8.21	0.746	6.86	80.70
9/5/2008	14:00	22.12	8.23	0.746	7.05	82.99
9/5/2008	15:00	22.25	8.24	0.746	7.39	87.21
9/5/2008	16:00	22.44	8.26	0.748	6.07	71.89
9/5/2008	17:00	22.47	8.26	0.748	7.71	91.37

Appendix Table A - 6. Continued.

GREAT MIAMI RIVER @ SR 47 (E. NORTH ST)

River Mile: 129.99
Storet: H02P12
Flow Regime: Low Stable
Local Rainfall: Light-Discrete Span
Local Substrate: Sand/Silt
Local Depth (ft) 1.5
Local Velocity (ft/s): 0.1-0.25

Date	Time	Temp C	pH (SU)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Dissolved Oxygen (% sat)
9/3/2008	16:00	26.29	8.23	0.768	10.13	128.93
9/3/2008	17:00	25.97	8.28	0.772	9.39	118.82
9/3/2008	18:00	25.93	8.28	0.778	9.07	114.69
9/3/2008	19:00	25.85	8.27	0.779	8.70	109.85
9/3/2008	20:00	25.45	8.25	0.780	8.33	104.41
9/3/2008	21:00	25.09	8.23	0.781	8.02	99.85
9/3/2008	22:00	24.76	8.22	0.782	7.86	97.27
9/3/2008	23:00	24.54	8.21	0.783	7.72	95.14
9/4/2008	0:00	24.42	8.20	0.783	7.59	93.33
9/4/2008	1:00	24.29	8.17	0.778	7.44	91.26
9/4/2008	2:00	24.16	8.16	0.776	7.37	90.19
9/4/2008	3:00	24.10	8.16	0.775	7.32	89.47
9/4/2008	4:00	24.05	8.15	0.775	7.28	88.90
9/4/2008	5:00	23.96	8.14	0.773	7.26	88.51
9/4/2008	6:00	23.81	8.13	0.773	7.23	87.89
9/4/2008	7:00	23.66	8.11	0.773	7.23	87.64
9/4/2008	8:00	23.53	8.10	0.773	7.28	88.03
9/4/2008	9:00	23.52	8.11	0.772	7.54	91.16
9/4/2008	10:00	23.76	8.13	0.770	8.19	99.47
9/4/2008	11:00	24.11	8.15	0.770	8.71	106.48
9/4/2008	12:00	24.49	8.17	0.766	9.16	112.78
9/4/2008	13:00	24.61	8.18	0.765	9.24	114.02
9/4/2008	14:00	24.69	8.18	0.765	8.94	110.49
9/4/2008	15:00	24.73	8.18	0.765	8.77	108.47
9/4/2008	16:00	24.73	8.17	0.764	8.57	105.99
9/4/2008	17:00	24.69	8.16	0.763	8.33	102.95
9/4/2008	18:00	24.60	8.14	0.762	8.09	99.81
9/4/2008	19:00	24.55	8.14	0.761	7.84	96.64
9/4/2008	20:00	24.44	8.12	0.759	7.61	93.61
9/4/2008	21:00	24.31	8.11	0.758	7.44	91.30
9/4/2008	22:00	24.20	8.11	0.757	7.41	90.74
9/4/2008	23:00	24.18	8.11	0.754	7.45	91.20
9/5/2008	0:00	24.02	8.11	0.750	7.38	90.07
9/5/2008	1:00	23.82	8.11	0.749	7.29	88.64
9/5/2008	2:00	23.69	8.10	0.747	7.25	87.94
9/5/2008	3:00	23.50	8.10	0.736	7.32	88.47
9/5/2008	4:00	23.25	8.08	0.696	7.22	86.85
9/5/2008	5:00	23.26	8.08	0.720	7.19	86.50
9/5/2008	6:00	23.17	8.07	0.716	7.16	85.99
9/5/2008	7:00	23.08	8.05	0.714	7.12	85.37
9/5/2008	8:00	22.97	8.05	0.694	7.17	85.79
9/5/2008	9:00	22.99	8.04	0.705	7.16	85.70
9/5/2008	10:00	22.97	8.03	0.708	7.16	85.67
9/5/2008	11:00	22.92	8.04	0.698	7.25	86.66
9/5/2008	12:00	23.04	8.04	0.692	7.67	91.89
9/5/2008	13:00	23.15	8.03	0.701	7.80	93.64
9/5/2008	14:00	23.24	8.05	0.706	7.91	95.13
9/5/2008	15:00	23.39	8.07	0.709	8.16	98.41
9/5/2008	16:00	23.49	8.08	0.708	8.30	100.29

Appendix Table A - 6. Continued.

NORTH FORK GREAT MIAMI RIVER @ DUNN RD

River Mile: 6.31
Storet: H01P03
Flow Regime: Low Stable
Local Rainfall: Light-Discrete Span
Local Substrate: Gravel/Silt
Local Depth (ft) 1.5
Local Velocity (ft/s): 0-0.1

Date	Time	Temp C	pH (SU)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Dissolved Oxygen (% sat)
9/3/2008	11:00	21.21	7.69	0.570	4.95	57.25
9/3/2008	12:00	21.51	7.71	0.570	4.93	57.35
9/3/2008	13:00	22.20	7.77	0.570	6.26	73.80
9/3/2008	14:00	22.70	7.79	0.570	6.70	79.75
9/3/2008	15:00	23.33	7.85	0.570	7.30	87.94
9/3/2008	16:00	23.29	7.87	0.570	7.83	94.26
9/3/2008	17:00	23.73	7.89	0.570	7.99	96.99
9/3/2008	18:00	23.69	7.89	0.570	8.04	97.52
9/3/2008	19:00	23.78	7.91	0.570	7.78	94.53
9/3/2008	20:00	23.91	7.91	0.570	7.75	94.39
9/3/2008	21:00	23.84	7.87	0.570	7.38	89.77
9/3/2008	22:00	23.75	7.90	0.570	7.07	85.85
9/3/2008	23:00	23.48	7.91	0.570	6.95	83.96
9/4/2008	0:00	23.23	7.89	0.570	6.77	81.40
9/4/2008	1:00	23.03	7.85	0.570	6.61	79.18
9/4/2008	2:00	22.82	7.82	0.570	6.24	74.45
9/4/2008	3:00	22.63	7.83	0.570	6.05	71.92
9/4/2008	4:00	22.39	7.80	0.570	5.78	68.39
9/4/2008	5:00	22.19	7.80	0.570	5.65	66.60
9/4/2008	6:00	21.94	7.78	0.570	5.25	61.58
9/4/2008	7:00	21.74	7.76	0.570	4.96	57.96
9/4/2008	8:00	21.54	7.75	0.570	4.85	56.45
9/4/2008	9:00	21.52	7.74	0.570	4.65	54.10
9/4/2008	10:00	21.65	7.73	0.570	4.59	53.54
9/4/2008	11:00	21.86	7.72	0.570	4.75	55.63
9/4/2008	12:00	22.28	7.74	0.570	5.55	65.53
9/4/2008	13:00	22.93	7.83	0.570	6.88	82.25
9/4/2008	14:00	23.21	7.85	0.570	7.32	87.98
9/4/2008	15:00	23.26	7.86	0.570	7.39	88.91
9/4/2008	16:00	23.32	7.87	0.570	7.32	88.17
9/4/2008	17:00	23.40	7.87	0.570	7.11	85.77
9/4/2008	18:00	23.23	7.84	0.570	6.66	80.08
9/4/2008	19:00	23.22	7.79	0.570	6.16	74.05
9/4/2008	20:00	23.20	7.76	0.570	5.61	67.42
9/4/2008	21:00	23.21	7.85	0.570	6.94	83.42
9/4/2008	22:00	22.99	7.86	0.570	6.69	80.07
9/4/2008	23:00	22.69	7.84	0.570	6.21	73.90
9/5/2008	0:00	22.45	7.82	0.570	5.78	68.47
9/5/2008	1:00	22.22	7.80	0.570	5.61	66.16
9/5/2008	2:00	21.90	7.79	0.570	5.46	64.00
9/5/2008	3:00	21.79	7.77	0.570	5.20	60.82
9/5/2008	4:00	21.54	7.77	0.570	5.35	62.27
9/5/2008	5:00	21.41	7.74	0.570	5.06	58.75
9/5/2008	6:00	21.25	7.73	0.560	5.10	59.03
9/5/2008	7:00	21.12	7.73	0.560	4.87	56.22
9/5/2008	8:00	21.01	7.72	0.560	4.66	53.68
9/5/2008	9:00	20.97	7.71	0.560	4.37	50.30
9/5/2008	10:00	20.94	7.70	0.560	4.19	48.20
9/5/2008	11:00	20.88	7.70	0.560	4.30	49.41
9/5/2008	12:00	20.89	7.68	0.560	3.86	44.36

Appendix Table A - 6. Continued.

SOUTH FORK GREAT MIAMI RIVER @ CR 96

River Mile: 3.95
Storet: H01S11
Flow Regime: Low Stable
Local Rainfall: Light-Discrete Span
Local Substrate: Gravel/Sand
Local Depth (ft) 2
Local Velocity (ft/s): 0.75-1.25

Date	Time	Temp C	pH (SU)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Dissolved Oxygen (% sat)
9/3/2008	11:00	21.01	7.98	0.834	6.52	75.11
9/3/2008	12:00	21.42	8.01	0.834	6.92	80.36
9/3/2008	13:00	21.93	8.02	0.833	7.38	86.55
9/3/2008	14:00	22.78	8.04	0.831	8.06	96.09
9/3/2008	15:00	23.26	8.05	0.831	8.64	103.95
9/3/2008	16:00	23.44	8.04	0.830	8.58	103.58
9/3/2008	17:00	23.68	8.04	0.830	8.59	104.17
9/3/2008	18:00	23.61	8.04	0.831	8.20	99.31
9/3/2008	19:00	23.55	8.03	0.832	7.80	94.36
9/3/2008	20:00	23.36	8.01	0.832	7.24	87.27
9/3/2008	21:00	23.15	7.99	0.833	6.78	81.40
9/3/2008	22:00	22.95	7.98	0.833	6.46	77.26
9/3/2008	23:00	22.70	7.98	0.833	6.24	74.28
9/4/2008	0:00	22.51	7.97	0.833	6.06	71.87
9/4/2008	1:00	22.32	7.96	0.834	5.95	70.31
9/4/2008	2:00	22.14	7.96	0.834	5.85	68.89
9/4/2008	3:00	21.97	7.96	0.836	5.73	67.25
9/4/2008	4:00	21.78	7.95	0.837	5.69	66.54
9/4/2008	5:00	21.58	7.95	0.837	5.65	65.81
9/4/2008	6:00	21.36	7.95	0.837	5.66	65.65
9/4/2008	7:00	21.17	7.95	0.837	5.64	65.17
9/4/2008	8:00	20.97	7.95	0.836	5.68	65.38
9/4/2008	9:00	20.88	7.96	0.835	5.84	67.10
9/4/2008	10:00	20.94	7.98	0.834	6.11	70.29
9/4/2008	11:00	21.23	7.98	0.833	6.56	75.89
9/4/2008	12:00	21.57	7.97	0.832	7.08	82.46
9/4/2008	13:00	21.96	7.99	0.831	7.64	89.65
9/4/2008	14:00	22.41	8.01	0.829	8.17	96.71
9/4/2008	15:00	22.60	8.03	0.829	8.37	99.44
9/4/2008	16:00	22.69	8.02	0.828	8.18	97.35
9/4/2008	17:00	22.74	8.03	0.829	7.92	94.34
9/4/2008	18:00	22.72	8.00	0.830	7.47	88.95
9/4/2008	19:00	22.70	7.99	0.830	7.06	84.04
9/4/2008	20:00	22.65	7.96	0.831	6.67	79.32
9/4/2008	21:00	22.55	7.97	0.831	6.42	76.20
9/4/2008	22:00	22.43	7.96	0.830	6.21	73.54
9/4/2008	23:00	22.26	7.96	0.829	6.10	72.00
9/5/2008	0:00	22.10	7.94	0.829	5.97	70.25
9/5/2008	1:00	21.89	7.95	0.828	5.76	67.50
9/5/2008	2:00	21.69	7.94	0.828	5.71	66.66
9/5/2008	3:00	21.48	7.94	0.828	5.77	67.08
9/5/2008	4:00	21.29	7.94	0.825	5.64	65.33
9/5/2008	5:00	21.15	7.92	0.826	5.22	60.30
9/5/2008	6:00	20.99	7.89	0.825	4.82	55.50
9/5/2008	7:00	20.84	7.85	0.826	4.37	50.17
9/5/2008	8:00	20.72	7.85	0.826	4.34	49.71
9/5/2008	9:00	20.63	7.84	0.826	4.41	50.42
9/5/2008	10:00	20.54	7.86	0.824	4.79	54.67
9/5/2008	11:00	20.51	7.88	0.821	4.99	56.92
9/5/2008	12:00	20.53	7.92	0.823	5.36	61.16

Appendix Table A - 6. Continued.

MUCHINIPPI CREEK @ US 33

River Mile: 12.5
Storet: 201083
Flow Regime: Low Stable
Local Rainfall: Light-Discrete Span
Local Substrate: Sand
Local Depth (ft) 1
Local Velocity (ft/s): 0-0.1

Date	Time	Temp C	pH (SU)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Dissolved Oxygen (% sat)
9/3/2008	12:00	24.24	8.07	0.900	5.27	64.59
9/3/2008	13:00	25.17	8.09	0.900	6.15	76.69
9/3/2008	14:00	26.32	8.14	0.900	7.14	90.93
9/3/2008	15:00	27.01	8.16	0.900	7.94	102.39
9/3/2008	16:00	27.29	8.17	0.900	7.82	101.35
9/3/2008	17:00	27.66	8.20	0.900	8.55	111.54
9/3/2008	18:00	27.70	8.21	0.910	8.59	112.15
9/3/2008	19:00	27.59	8.21	0.910	8.57	111.67
9/3/2008	20:00	27.33	8.21	0.910	8.22	106.61
9/3/2008	21:00	26.92	8.23	0.910	8.39	108.01
9/3/2008	22:00	26.45	8.24	0.930	8.38	106.97
9/3/2008	23:00	26.05	8.26	0.930	8.23	104.29
9/4/2008	0:00	25.71	8.26	0.920	7.93	99.87
9/4/2008	1:00	25.48	8.31	0.940	8.10	101.58
9/4/2008	2:00	25.22	8.41	0.910	8.32	103.84
9/4/2008	3:00	24.85	8.45	0.900	7.82	96.93
9/4/2008	4:00	24.40	8.44	0.910	6.98	85.80
9/4/2008	5:00	23.97	8.42	0.910	6.04	73.65
9/4/2008	6:00	23.52	8.36	0.900	5.06	61.18
9/4/2008	7:00	23.14	8.26	0.890	3.89	46.69
9/4/2008	8:00	22.83	8.18	0.890	3.27	39.02
9/4/2008	9:00	22.74	8.14	0.880	3.30	39.31
9/4/2008	10:00	23.05	8.14	1.040	3.94	47.21
9/4/2008	11:00	23.46	8.13	0.950	4.36	52.65
9/4/2008	12:00	24.10	8.14	0.940	5.30	64.78
9/4/2008	13:00	24.46	8.16	0.950	5.90	72.60
9/4/2008	14:00	25.28	8.22	0.920	6.80	84.96
9/4/2008	15:00	25.46	8.22	0.910	6.92	86.75
9/4/2008	16:00	25.49	8.22	0.910	7.00	87.80
9/4/2008	17:00	25.52	8.22	0.920	7.05	88.48
9/4/2008	18:00	25.52	8.21	0.920	6.93	86.97
9/4/2008	19:00	25.41	8.20	0.930	6.87	86.04
9/4/2008	20:00	25.26	8.20	0.930	6.72	83.93
9/4/2008	21:00	25.02	8.20	0.940	6.75	83.93
9/4/2008	22:00	24.69	8.25	0.940	7.02	86.76
9/4/2008	23:00	24.48	8.29	0.980	7.15	88.02
9/5/2008	0:00	24.13	8.38	0.950	7.72	94.42
9/5/2008	1:00	23.51	8.43	0.940	7.53	91.02
9/5/2008	2:00	23.19	8.48	0.920	7.27	87.35
9/5/2008	3:00	22.66	8.47	0.900	6.61	78.62
9/5/2008	4:00	22.29	8.40	0.930	5.60	66.13
9/5/2008	5:00	22.00	8.36	0.910	5.04	59.19
9/5/2008	6:00	21.67	8.28	0.930	4.62	53.91
9/5/2008	7:00	21.38	8.22	0.900	4.27	49.55
9/5/2008	8:00	21.23	8.16	0.890	3.97	45.93
9/5/2008	9:00	21.10	8.11	0.900	3.81	43.97
9/5/2008	10:00	20.97	8.06	0.900	3.70	42.59
9/5/2008	11:00	20.93	8.03	0.940	3.77	43.36
9/5/2008	12:00	21.03	8.04	0.910	4.09	47.13
9/5/2008	13:00	21.41	8.05	0.910	4.59	53.29

Appendix Table A - 6. Continued.

MUCHINIPPI CREEK @ CR 60

River Mile: 0.32
Storet: H01P08
Flow Regime: Low Stable
Local Rainfall: Light-Discrete Span
Local Substrate: Silt
Local Depth (ft) 0.7
Local Velocity (ft/s): 0.25-0.75

Date	Time	Temp C	pH (SU)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Dissolved Oxygen (% sat)
9/3/2008	13:00	22.32	7.49	0.728	2.08	24.58
9/3/2008	14:00	22.50	7.53	0.729	2.10	24.90
9/3/2008	15:00	22.56	7.54	0.729	2.08	24.69
9/3/2008	16:00	22.82	7.54	0.730	2.13	25.41
9/3/2008	17:00	23.41	7.56	0.731	2.34	28.23
9/3/2008	18:00	23.56	7.56	0.731	2.35	28.43
9/3/2008	19:00	23.53	7.55	0.731	2.19	26.48
9/3/2008	20:00	23.55	7.55	0.730	2.19	26.49
9/3/2008	21:00	23.53	7.56	0.730	2.26	27.33
9/3/2008	22:00	23.47	7.56	0.730	2.26	27.30
9/3/2008	23:00	23.35	7.55	0.730	2.18	26.27
9/4/2008	0:00	23.24	7.56	0.730	2.26	27.18
9/4/2008	1:00	23.17	7.56	0.730	2.30	27.62
9/4/2008	2:00	23.06	7.56	0.729	2.29	27.45
9/4/2008	3:00	22.97	7.57	0.729	2.34	28.00
9/4/2008	4:00	22.87	7.57	0.729	2.33	27.82
9/4/2008	5:00	22.75	7.57	0.728	2.30	27.40
9/4/2008	6:00	22.60	7.56	0.728	2.24	26.61
9/4/2008	7:00	22.42	7.57	0.728	2.23	26.40
9/4/2008	8:00	22.25	7.56	0.727	2.22	26.20
9/4/2008	9:00	22.13	7.56	0.727	2.19	25.78
9/4/2008	10:00	22.11	7.56	0.726	2.12	24.95
9/4/2008	11:00	22.16	7.55	0.726	2.04	24.03
9/4/2008	12:00	22.38	7.55	0.726	2.08	24.61
9/4/2008	13:00	22.48	7.56	0.725	2.18	25.84
9/4/2008	14:00	22.58	7.57	0.726	2.41	28.62
9/4/2008	15:00	22.59	7.58	0.725	2.57	30.53
9/4/2008	16:00	22.64	7.59	0.724	2.74	32.58
9/4/2008	17:00	22.69	7.59	0.724	2.67	31.78
9/4/2008	18:00	22.74	7.58	0.724	2.54	30.26
9/4/2008	19:00	22.81	7.57	0.723	2.41	28.75
9/4/2008	20:00	22.91	7.56	0.723	2.30	27.49
9/4/2008	21:00	22.95	7.56	0.723	2.24	26.79
9/4/2008	22:00	22.93	7.55	0.722	2.18	26.06
9/4/2008	23:00	22.87	7.56	0.722	2.21	26.39
9/5/2008	0:00	22.75	7.56	0.721	2.25	26.81
9/5/2008	1:00	22.58	7.57	0.720	2.31	27.43
9/5/2008	2:00	22.43	7.57	0.720	2.43	28.78
9/5/2008	3:00	22.22	7.59	0.718	2.75	32.43
9/5/2008	4:00	22.00	7.61	0.718	3.02	35.47
9/5/2008	5:00	21.84	7.62	0.718	3.19	37.35
9/5/2008	6:00	21.68	7.63	0.715	3.41	39.80
9/5/2008	7:00	21.56	7.63	0.715	3.43	39.94
9/5/2008	8:00	21.47	7.63	0.714	3.44	39.99
9/5/2008	9:00	21.40	7.63	0.714	3.37	39.12
9/5/2008	10:00	21.34	7.63	0.713	3.37	39.07
9/5/2008	11:00	21.30	7.63	0.711	3.30	38.23
9/5/2008	12:00	21.28	7.62	0.710	3.17	36.71
9/5/2008	13:00	21.31	7.61	0.710	2.92	33.83
9/5/2008	14:00	21.31	7.59	0.711	2.64	30.59

Appendix Table A - 6. Continued.

LITTLE MUCHINIPPI CREEK @ GRAVEL RD

River Mile: 0.62
Storet: H01K12
Flow Regime: Low Stable
Local Rainfall: Light-Discrete Span
Local Substrate: Silt
Local Depth (ft) 0.4
Local Velocity (ft/s): 0-0.1

Date	Time	Temp C	pH (SU)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Dissolved Oxygen (% sat)
9/3/2008	13:00	27.28	8.64	0.310	17.46	226.24
9/3/2008	14:00	28.39	8.74		19.24	254.28
9/3/2008	15:00	28.42	8.70		18.11	239.48
9/3/2008	16:00	28.84	8.76		19.05	253.78
9/3/2008	17:00	28.46	8.69		17.33	229.32
9/3/2008	18:00	27.54	8.50		13.90	180.95
9/3/2008	19:00	26.43	8.15		9.07	115.74
9/3/2008	20:00	25.49	7.87		5.78	72.50
9/3/2008	21:00	24.52	7.71		3.72	45.83
9/3/2008	22:00	23.73	7.66		2.98	36.17
9/3/2008	23:00	23.21	7.63		2.46	29.57
9/4/2008	0:00	22.85	7.61		2.19	26.14
9/4/2008	1:00	22.58	7.61		2.02	23.99
9/4/2008	2:00	22.36	7.60		2.00	23.65
9/4/2008	3:00	22.17	7.60		1.99	23.45
9/4/2008	4:00	21.96	7.60		2.00	23.47
9/4/2008	5:00	21.76	7.60		1.98	23.14
9/4/2008	6:00	21.51	7.59		1.94	22.57
9/4/2008	7:00	21.33	7.59		1.97	22.84
9/4/2008	8:00	21.20	7.61		2.34	27.06
9/4/2008	9:00	21.45	7.70		4.35	50.54
9/4/2008	10:00	22.39	7.98		8.80	104.13
9/4/2008	11:00	23.22	8.21		11.55	138.85
9/4/2008	12:00	24.46	8.51		15.57	191.60
9/4/2008	13:00	25.02	8.58		15.67	194.85
9/4/2008	14:00	25.36	8.69		16.51	206.59
9/4/2008	15:00	24.85	8.50		13.03	161.51
9/4/2008	16:00	24.50	8.34		11.22	138.17
9/4/2008	17:00	24.25	8.21		9.68	118.65
9/4/2008	18:00	23.99	8.01		7.63	93.07
9/4/2008	19:00	23.76	7.87		5.96	72.39
9/4/2008	20:00	23.43	7.75		4.13	49.85
9/4/2008	21:00	22.97	7.64		3.15	37.69
9/4/2008	22:00	22.60	7.66		2.80	33.26
9/4/2008	23:00	22.29	7.65		2.61	30.82
9/5/2008	0:00	22.01	7.66		2.65	31.13
9/5/2008	1:00	21.47	7.65		2.93	34.06
9/5/2008	2:00	21.21	7.66		2.84	32.84
9/5/2008	3:00	21.01	7.70		3.61	41.59
9/5/2008	4:00	20.80	7.69		3.39	38.89
9/5/2008	5:00	20.72	7.69		3.31	37.91
9/5/2008	6:00	20.55	7.69		3.43	39.16
9/5/2008	7:00	20.47	7.68		3.14	35.79
9/5/2008	8:00	20.40	7.69		3.26	37.10
9/5/2008	9:00	20.46	7.70		3.78	43.07
9/5/2008	10:00	20.42	7.66		3.51	39.97
9/5/2008	11:00	20.54	7.69		4.08	46.57
9/5/2008	12:00	20.76	7.80		5.86	67.17
9/5/2008	13:00	21.04	7.91		7.44	85.76

Appendix Table A - 6. Continued.

BOKENGEHALAS CREEK @ MIAMI ST (DEGRAFF)

River Mile: 1.13
Storet: H01K01
Flow Regime: Low Stable
Local Rainfall: Light-Discrete Span
Local Substrate: Gravel
Local Depth (ft) 1
Local Velocity (ft/s): 0.25-0.75

Date	Time	Temp C	pH (SU)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Dissolved Oxygen (% sat)
9/3/2008	11:00	20.98	8.26	0.955	8.00	92.10
9/3/2008	12:00	20.99	8.37	0.960	8.44	97.19
9/3/2008	13:00	21.51	8.43	0.962	9.09	105.74
9/3/2008	14:00	22.10	8.48	0.963	9.73	114.49
9/3/2008	15:00	22.85	8.54	0.964	10.31	123.07
9/3/2008	16:00	23.55	8.57	0.963	10.58	127.99
9/3/2008	17:00	24.09	8.59	0.962	10.46	127.83
9/3/2008	18:00	24.52	8.60	0.961	10.25	126.28
9/3/2008	19:00	24.62	8.58	0.960	9.70	119.72
9/3/2008	20:00	24.61	8.56	0.961	8.99	110.94
9/3/2008	21:00	24.57	8.54	0.964	8.37	103.21
9/3/2008	22:00	24.42	8.51	0.967	7.83	96.28
9/3/2008	23:00	24.16	8.48	0.970	7.45	91.17
9/4/2008	0:00	23.82	8.45	0.973	7.12	86.57
9/4/2008	1:00	23.52	8.42	0.974	6.97	84.27
9/4/2008	2:00	23.24	8.41	0.975	6.91	83.10
9/4/2008	3:00	22.95	8.41	0.975	6.93	82.88
9/4/2008	4:00	22.66	8.40	0.976	6.94	82.54
9/4/2008	5:00	22.38	8.39	0.978	6.97	82.46
9/4/2008	6:00	22.08	8.38	0.980	7.00	82.33
9/4/2008	7:00	21.79	8.37	0.980	7.02	82.11
9/4/2008	8:00	21.52	8.36	0.979	7.07	82.26
9/4/2008	9:00	21.36	8.36	0.977	7.21	83.63
9/4/2008	10:00	21.35	8.36	0.973	7.50	86.97
9/4/2008	11:00	21.47	8.39	0.970	7.95	92.41
9/4/2008	12:00	21.78	8.43	0.966	8.63	100.92
9/4/2008	13:00	22.15	8.47	0.965	9.25	108.95
9/4/2008	14:00	22.53	8.52	0.965	9.81	116.39
9/4/2008	15:00	22.88	8.56	0.966	10.06	120.16
9/4/2008	16:00	23.15	8.58	0.968	10.02	120.30
9/4/2008	17:00	23.33	8.58	0.972	9.72	117.10
9/4/2008	18:00	23.41	8.57	0.974	9.30	112.21
9/4/2008	19:00	23.39	8.55	0.975	8.82	106.37
9/4/2008	20:00	23.32	8.53	0.975	8.33	100.33
9/4/2008	21:00	23.19	8.50	0.976	7.88	94.68
9/4/2008	22:00	23.07	8.48	0.976	7.55	90.51
9/4/2008	23:00	22.93	8.45	0.975	7.31	87.39
9/5/2008	0:00	22.73	8.43	0.973	7.17	85.39
9/5/2008	1:00	22.50	8.42	0.971	7.09	84.07
9/5/2008	2:00	22.27	8.41	0.969	7.05	83.23
9/5/2008	3:00	22.09	8.40	0.969	7.04	82.82
9/5/2008	4:00	21.88	8.39	0.967	7.00	82.02
9/5/2008	5:00	21.69	8.38	0.968	6.97	81.36
9/5/2008	6:00	21.50	8.37	0.967	6.98	81.18
9/5/2008	7:00	21.31	8.36	0.968	6.93	80.30
9/5/2008	8:00	21.18	8.36	0.967	6.96	80.44
9/5/2008	9:00	21.09	8.35	0.965	6.88	79.38
9/5/2008	10:00	21.01	8.35	0.962	7.02	80.87

Appendix Table A - 6. Continued.

BLUE JACKET CREEK @ CR 11 (DST BELLEFONTAINE WWTP)

River Mile: 5.5
Storet: H01P12
Flow Regime: Low Stable
Local Rainfall: Light-Discrete Span
Local Substrate: Sand
Local Depth (ft) 0.8
Local Velocity (ft/s): 0.25-0.75

Date	Time	Temp C	pH (SU)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Dissolved Oxygen (% sat)
9/3/2008	11:00	21.17	8.04	1.840	8.74	101.00
9/3/2008	12:00	21.97	8.10	1.850	9.23	108.33
9/3/2008	13:00	22.82	8.14	1.870	9.63	114.89
9/3/2008	14:00	23.47	8.16	1.890	9.84	118.86
9/3/2008	15:00	23.82	8.16	1.880	9.66	117.46
9/3/2008	16:00	24.00	8.16	1.910	9.65	117.73
9/3/2008	17:00	23.57	8.11	1.920	8.99	108.79
9/3/2008	18:00	23.28	8.09	1.910	8.47	101.94
9/3/2008	19:00	22.73	8.01	1.910	7.29	86.82
9/3/2008	20:00	22.29	7.94	1.920	6.48	76.53
9/3/2008	21:00	21.93	7.91	1.930	6.14	72.01
9/3/2008	22:00	21.63	7.90	1.940	5.96	69.49
9/3/2008	23:00	21.39	7.90	1.940	6.04	70.10
9/4/2008	0:00	21.24	7.90	1.940	6.07	70.24
9/4/2008	1:00	21.09	7.89	1.930	5.96	68.76
9/4/2008	2:00	20.92	7.89	1.910	5.94	68.30
9/4/2008	3:00	20.71	7.88	1.890	5.92	67.79
9/4/2008	4:00	20.49	7.87	1.840	5.81	66.25
9/4/2008	5:00	20.39	7.88	1.820	5.88	66.91
9/4/2008	6:00	20.28	7.88	1.810	5.91	67.11
9/4/2008	7:00	20.21	7.88	1.800	5.91	67.01
9/4/2008	8:00	20.21	7.90	1.800	6.24	70.75
9/4/2008	9:00	20.53	7.99	1.810	7.34	83.76
9/4/2008	10:00	20.95	8.03	1.850	8.09	93.08
9/4/2008	11:00	21.43	8.08	1.860	8.95	103.95
9/4/2008	12:00	22.17	8.15	1.870	9.66	113.82
9/4/2008	13:00	22.52	8.17	1.900	9.68	114.82
9/4/2008	14:00	22.71	8.17	1.910	9.43	112.27
9/4/2008	15:00	22.74	8.15	1.930	9.17	109.23
9/4/2008	16:00	22.53	8.10	1.930	8.46	100.37
9/4/2008	17:00	22.40	8.07	1.930	8.13	96.22
9/4/2008	18:00	22.16	8.01	1.940	7.23	85.17
9/4/2008	19:00	21.97	7.96	1.930	6.54	76.76
9/4/2008	20:00	21.77	7.93	1.940	6.14	71.79
9/4/2008	21:00	21.50	7.91	1.940	6.00	69.78
9/4/2008	22:00	21.29	7.91	1.960	6.02	69.73
9/4/2008	23:00	21.08	7.90	1.960	5.99	69.10
9/5/2008	0:00	20.92	7.91	1.950	5.99	68.88
9/5/2008	1:00	20.77	7.90	1.930	6.03	69.14
9/5/2008	2:00	20.52	7.89	1.910	5.95	67.88
9/5/2008	3:00	20.33	7.89	1.890	5.91	67.17
9/5/2008	4:00	20.21	7.87	1.860	5.85	66.33
9/5/2008	5:00	20.16	7.88	1.840	5.89	66.72
9/5/2008	6:00	20.21	7.93	1.820	6.22	70.53
9/5/2008	7:00	19.98	7.93	1.730	6.25	70.54
9/5/2008	8:00	20.04	7.99	1.660	6.68	75.49
9/5/2008	9:00	19.99	8.00	1.610	6.90	77.90

Appendix Table A - 6. Continued.

STONY CREEK @ TR 65A

River Mile: 1.58
Storet: 600010
Flow Regime: Low Stable
Local Rainfall: Light-Discrete Span
Local Substrate: Sand/Silt
Local Depth (ft) 1.8
Local Velocity (ft/s): 0.25-0.75

Date	Time	Temp C	pH (SU)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Dissolved Oxygen (% sat)
9/3/2008	12:00	20.58	8.24	0.640	10.90	124.50
9/3/2008	13:00	21.99	8.32	0.640	11.51	135.15
9/3/2008	14:00	23.29	8.36	0.630	12.08	145.42
9/3/2008	15:00	24.36	8.37	0.620	12.14	149.11
9/3/2008	16:00	25.16	8.35	0.610	11.91	148.48
9/3/2008	17:00	25.72	8.31	0.610	11.46	144.35
9/3/2008	18:00	25.94	8.25	0.600	10.72	135.58
9/3/2008	19:00	25.80	8.20	0.600	9.96	125.64
9/3/2008	20:00	25.21	8.14	0.610	8.90	111.06
9/3/2008	21:00	24.53	8.10	0.610	8.02	98.82
9/3/2008	22:00	23.82	8.07	0.610	7.34	89.25
9/3/2008	23:00	23.14	8.06	0.620	6.97	83.66
9/4/2008	0:00	22.52	8.06	0.620	6.69	79.36
9/4/2008	1:00	21.93	8.06	0.630	6.72	78.81
9/4/2008	2:00	21.37	8.08	0.630	6.72	77.96
9/4/2008	3:00	20.83	8.09	0.630	6.71	77.02
9/4/2008	4:00	20.35	8.11	0.630	6.84	77.77
9/4/2008	5:00	19.92	8.13	0.630	6.89	77.67
9/4/2008	6:00	19.50	8.15	0.630	6.96	77.81
9/4/2008	7:00	19.12	8.17	0.630	7.17	79.54
9/4/2008	8:00	18.82	8.19	0.630	7.25	79.94
9/4/2008	9:00	18.74	8.21	0.630	7.49	82.46
9/4/2008	10:00	18.98	8.26	0.630	8.09	89.50
9/4/2008	11:00	19.71	8.32	0.630	9.09	102.05
9/4/2008	12:00	20.81	8.36	0.630	9.98	114.51
9/4/2008	13:00	21.79	8.39	0.620	10.62	124.21
9/4/2008	14:00	22.30	8.40	0.610	10.89	128.63
9/4/2008	15:00	22.62	8.41	0.610	11.01	130.85
9/4/2008	16:00	22.71	8.40	0.600	10.53	125.36
9/4/2008	17:00	22.77	8.36	0.600	10.10	120.38
9/4/2008	18:00	22.72	8.32	0.600	9.38	111.69
9/4/2008	19:00	22.54	8.28	0.600	8.67	102.88
9/4/2008	20:00	22.24	8.24	0.600	8.09	95.45
9/4/2008	21:00	21.81	8.20	0.610	7.49	87.64
9/4/2008	22:00	21.39	8.18	0.610	7.09	82.28
9/4/2008	23:00	21.04	8.17	0.610	6.82	78.61
9/5/2008	0:00	20.72	8.16	0.620	6.83	78.23
9/5/2008	1:00	20.42	8.16	0.620	6.67	75.95
9/5/2008	2:00	20.10	8.16	0.620	6.77	76.60
9/5/2008	3:00	19.86	8.17	0.620	6.76	76.12
9/5/2008	4:00	19.65	8.19	0.620	6.86	76.92
9/5/2008	5:00	19.50	8.19	0.620	6.74	75.35
9/5/2008	6:00	19.33	8.19	0.610	6.78	75.54
9/5/2008	7:00	19.18	8.19	0.610	6.70	74.42
9/5/2008	8:00	19.06	8.20	0.610	6.79	75.24
9/5/2008	9:00	19.02	8.21	0.610	6.80	75.29
9/5/2008	10:00	19.01	8.21	0.610	6.98	77.26

Appendix Table A - 6. Continued.

LORAMIE CREEK @ HARDIN-WAPAKONETA RD

River Mile: 30.42
Storet: H02S27
Flow Regime: Low Stable
Local Rainfall: Light-Discrete Span
Local Substrate: Sand/Silt
Local Depth (ft) 1.5
Local Velocity (ft/s): 0-0.1

Date	Time	Temp C	pH (SU)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Dissolved Oxygen (% sat)
9/3/2008	18:00	25.10	7.99	2.300	8.38	104.36
9/3/2008	19:00	24.51	8.00	2.300	8.27	101.86
9/3/2008	20:00	24.47	8.03	2.310	8.24	101.42
9/3/2008	21:00	24.43	8.07	2.310	8.19	100.73
9/3/2008	22:00	24.08	8.01	2.300	7.67	93.72
9/3/2008	23:00	23.86	8.02	2.310	7.41	90.17
9/4/2008	0:00	23.63	7.99	2.300	7.11	86.14
9/4/2008	1:00	23.36	8.02	2.330	7.09	85.46
9/4/2008	2:00	23.13	8.02	2.350	6.85	82.21
9/4/2008	3:00	22.93	8.01	2.350	6.73	80.46
9/4/2008	4:00	22.75	8.01	2.360	6.51	77.56
9/4/2008	5:00	22.60	8.02	2.370	6.52	77.46
9/4/2008	6:00	22.38	8.02	2.380	6.30	74.53
9/4/2008	7:00	22.17	8.01	2.380	5.98	70.46
9/4/2008	8:00	21.98	8.00	2.390	5.82	68.32
9/4/2008	9:00	21.91	7.99	2.400	5.71	66.94
9/4/2008	10:00	21.94	7.97	2.410	5.51	64.63
9/4/2008	11:00	22.14	7.98	2.430	5.58	65.71
9/4/2008	12:00	22.36	7.97	2.440	5.62	66.46
9/4/2008	13:00	22.77	8.00	2.450	6.13	73.06
9/4/2008	14:00	22.96	8.00	2.440	6.56	78.47
9/4/2008	15:00	23.29	8.03	2.450	6.91	83.18
9/4/2008	16:00	23.49	8.07	2.460	7.53	90.99
9/4/2008	17:00	23.39	8.06	2.440	7.35	88.65
9/4/2008	18:00	23.39	8.05	2.450	7.23	87.20
9/4/2008	19:00	23.39	8.07	2.450	7.12	85.87
9/4/2008	20:00	23.34	8.08	2.460	7.10	85.55
9/4/2008	21:00	23.19	8.07	2.450	7.01	84.22
9/4/2008	22:00	23.00	8.06	2.440	6.96	83.32
9/4/2008	23:00	22.86	8.08	2.450	6.91	82.50
9/5/2008	0:00	22.62	8.08	2.450	6.73	79.99
9/5/2008	1:00	22.36	8.09	2.450	6.58	77.81
9/5/2008	2:00	22.14	8.09	2.450	6.46	76.07
9/5/2008	3:00	21.97	8.06	2.440	6.07	71.24
9/5/2008	4:00	21.77	8.08	2.450	6.29	73.54
9/5/2008	5:00	21.63	8.05	2.440	5.77	67.28
9/5/2008	6:00	21.45	8.07	2.450	5.86	68.09
9/5/2008	7:00	21.33	8.06	2.450	5.60	64.91
9/5/2008	8:00	21.21	8.06	2.450	5.62	64.99
9/5/2008	9:00	21.14	8.06	2.460	5.28	60.98
9/5/2008	10:00	21.10	8.04	2.460	5.17	59.66
9/5/2008	11:00	21.03	8.03	2.460	5.00	57.62
9/5/2008	12:00	20.99	8.01	2.460	4.92	56.65
9/5/2008	13:00	21.04	8.00	2.450	4.93	56.82
9/5/2008	14:00	21.19	8.01	2.460	5.24	60.58

Appendix Table A - 6. Continued.

LORAMIE CREEK DST LORAMIE LAKE DAM

River Mile: 22.1
Storet: H02S06
Flow Regime: Low Stable
Local Rainfall: Light-Discrete Span
Local Substrate: Gravel
Local Depth (ft) 2
Local Velocity (ft/s): 0

Date	Time	Temp C	pH (SU)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Dissolved Oxygen (% sat)
9/3/2008	18:00	25.07	7.62	0.430		
9/3/2008	19:00	25.21	7.63	0.430		
9/3/2008	20:00	25.30	7.63	0.430		
9/3/2008	21:00	25.29	7.66	0.430		
9/3/2008	22:00	25.18	7.65	0.430		
9/3/2008	23:00	25.04	7.61	0.430		
9/4/2008	0:00	24.86	7.60	0.430		
9/4/2008	1:00	24.68	7.58	0.430		
9/4/2008	2:00	24.53	7.56	0.430		
9/4/2008	3:00	24.37	7.54	0.430		
9/4/2008	4:00	24.21	7.53	0.430		
9/4/2008	5:00	24.04	7.51	0.430		
9/4/2008	6:00	23.89	7.50	0.430		
9/4/2008	7:00	23.74	7.48	0.430		
9/4/2008	8:00	23.57	7.47	0.430		
9/4/2008	9:00	23.56	7.47	0.430		
9/4/2008	10:00	23.64	7.46	0.430		
9/4/2008	11:00	23.69	7.47	0.430		
9/4/2008	12:00	23.84	7.51	0.430		
9/4/2008	13:00	24.01	7.56	0.430		
9/4/2008	14:00	24.33	7.65	0.430		
9/4/2008	15:00	24.53	7.68	0.430		
9/4/2008	16:00	24.67	7.72	0.430		
9/4/2008	17:00	24.73	7.71	0.430		
9/4/2008	18:00	24.82	7.72	0.430		
9/4/2008	19:00	24.83	7.71	0.430		
9/4/2008	20:00	24.91	7.78	0.430		
9/4/2008	21:00	24.82	7.76	0.430		
9/4/2008	22:00	24.74	7.72	0.430		
9/4/2008	23:00	24.58	7.68	0.430		
9/5/2008	0:00	24.41	7.67	0.430		
9/5/2008	1:00	24.26	7.63	0.430		
9/5/2008	2:00	24.09	7.60	0.430		
9/5/2008	3:00	23.93	7.58	0.430		
9/5/2008	4:00	23.78	7.56	0.430		
9/5/2008	5:00	23.59	7.54	0.430		
9/5/2008	6:00	23.45	7.52	0.430		
9/5/2008	7:00	23.34	7.51	0.430		
9/5/2008	8:00	23.23	7.49	0.430		
9/5/2008	9:00	23.17	7.48	0.430		
9/5/2008	10:00	23.10	7.47	0.430		
9/5/2008	11:00	23.04	7.47	0.430		
9/5/2008	12:00	23.05	7.51	0.430		
9/5/2008	13:00	23.20	7.55	0.430		
9/5/2008	14:00	23.29	7.56	0.430		

Appendix Table A - 6. Continued.

LORAMIE CREEK @ SR 66

River Mile: 20.7
Storet: H02W44
Flow Regime: Low Stable
Local Rainfall: Light-Discrete Span
Local Substrate: Gravel
Local Depth (ft) 1
Local Velocity (ft/s): 0.25-0.75

Date	Time	Temp C	pH (SU)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Dissolved Oxygen (% sat)
9/3/2008	17:00	28.60	7.50	2.150	11.13	147.65
9/3/2008	18:00	28.38	7.50	2.140	10.76	142.18
9/3/2008	19:00	27.77	7.49	2.150	9.87	129.02
9/3/2008	20:00	27.34	7.48	2.150	8.94	115.97
9/3/2008	21:00	26.78	7.45	2.150	7.95	102.09
9/3/2008	22:00	26.35	7.43	2.160	7.50	95.56
9/3/2008	23:00	25.86	7.42	2.150	7.20	90.92
9/4/2008	0:00	25.37	7.40	2.150	6.87	85.98
9/4/2008	1:00	24.88	7.38	2.140	6.60	81.86
9/4/2008	2:00	24.34	7.36	2.130	6.25	76.74
9/4/2008	3:00	23.84	7.34	2.120	6.10	74.20
9/4/2008	4:00	23.40	7.33	2.110	5.96	71.89
9/4/2008	5:00	23.01	7.32	2.110	5.81	69.57
9/4/2008	6:00	22.69	7.31	2.110	5.76	68.55
9/4/2008	7:00	22.38	7.31	2.120	5.77	68.26
9/4/2008	8:00	22.14	7.31	2.120	5.86	69.01
9/4/2008	9:00	22.25	7.32	2.140	6.57	77.53
9/4/2008	10:00	22.54	7.34	2.170	7.39	87.69
9/4/2008	11:00	23.08	7.36	2.210	8.21	98.44
9/4/2008	12:00	23.95	7.39	2.250	9.26	112.87
9/4/2008	13:00	24.60	7.41	2.260	9.96	122.89
9/4/2008	14:00	24.93	7.43	2.260	10.15	126.00
9/4/2008	15:00	24.98	7.45	2.250	10.01	124.38
9/4/2008	16:00	25.18	7.47	2.230	9.89	123.34
9/4/2008	17:00	25.30	7.47	2.220	9.64	120.49
9/4/2008	18:00	25.44	7.48	2.210	9.38	117.54
9/4/2008	19:00	25.31	7.46	2.220	8.63	107.89
9/4/2008	20:00	25.11	7.44	2.220	7.78	96.90
9/4/2008	21:00	24.79	7.43	2.230	7.30	90.39
9/4/2008	22:00	24.46	7.41	2.230	6.83	84.05
9/4/2008	23:00	24.04	7.40	2.230	6.49	79.24
9/5/2008	0:00	23.55	7.39	2.240	6.26	75.73
9/5/2008	1:00	23.15	7.38	2.240	6.07	72.87
9/5/2008	2:00	22.80	7.36	2.240	5.99	71.44
9/5/2008	3:00	22.38	7.36	2.240	5.85	69.21
9/5/2008	4:00	22.10	7.35	2.250	5.77	67.89
9/5/2008	5:00	21.84	7.34	2.250	5.77	67.55
9/5/2008	6:00	21.61	7.33	2.260	5.72	66.67
9/5/2008	7:00	21.44	7.33	2.260	5.79	67.26
9/5/2008	8:00	21.32	7.33	2.260	5.86	67.91
9/5/2008	9:00	21.22	7.33	2.260	5.95	68.82
9/5/2008	10:00	21.21	7.33	2.260	6.25	72.28
9/5/2008	11:00	21.34	7.35	2.260	6.89	79.88
9/5/2008	12:00	21.52	7.38	2.260	7.39	85.98
9/5/2008	13:00	22.00	7.41	2.250	8.25	96.89

Appendix Table A - 6. Continued.

LORAMIE CREEK @ CARDO-ROMAN RD

River Mile: 16.51
Storet: H02S24
Flow Regime: Low Stable
Local Rainfall: Light-Discrete Span
Local Substrate: Sand/Silt
Local Depth (ft) 2.4
Local Velocity (ft/s): 0-0.1

Date	Time	Temp C	pH (SU)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Dissolved Oxygen (% sat)
9/3/2008	15:00	25.32	8.99	2.100	21.11	263.95
9/3/2008	16:00	25.18	8.99	2.100	21.76	271.38
9/3/2008	17:00	25.87	9.02	2.100	23.63	298.46
9/3/2008	18:00	26.15	9.00	2.090	21.36	271.18
9/3/2008	19:00	26.02	8.98	2.100	20.51	259.77
9/3/2008	20:00	25.78	8.92	2.100	16.65	209.96
9/3/2008	21:00	25.86	8.88	2.120	13.67	172.63
9/3/2008	22:00	25.70	8.89	2.150	14.14	178.04
9/3/2008	23:00	25.48	8.88	2.140	13.06	163.78
9/4/2008	0:00	25.40	8.88	2.160	12.60	157.78
9/4/2008	1:00	25.25	8.87	2.170	11.72	146.35
9/4/2008	2:00	25.11	8.85	2.180	10.89	135.64
9/4/2008	3:00	24.96	8.85	2.190	10.57	131.29
9/4/2008	4:00	24.83	8.84	2.220	9.45	117.09
9/4/2008	5:00	24.73	8.83	2.240	8.53	105.50
9/4/2008	6:00	24.61	8.81	2.250	7.36	90.82
9/4/2008	7:00	24.50	8.79	2.270	6.19	76.23
9/4/2008	8:00	24.35	8.79	2.290	6.50	79.82
9/4/2008	9:00	24.29	8.81	2.300	7.21	88.44
9/4/2008	10:00	24.42	8.82	2.310	8.35	102.68
9/4/2008	11:00	24.55	8.81	2.310	9.71	119.69
9/4/2008	12:00	24.65	8.81	2.310	13.35	164.87
9/4/2008	13:00	24.83	8.81	2.300	13.50	167.28
9/4/2008	14:00	25.16	8.81	2.300	12.21	152.22
9/4/2008	15:00	25.30	8.81	2.300	13.28	165.99
9/4/2008	16:00	25.37	8.82	2.300	13.56	169.71
9/4/2008	17:00	25.45	8.84	2.300	13.55	169.83
9/4/2008	18:00	25.48	8.85	2.300	14.21	178.20
9/4/2008	19:00	25.45	8.83	2.300	14.18	177.73
9/4/2008	20:00	25.42	8.84	2.300	13.03	163.22
9/4/2008	21:00	25.33	8.81	2.290	12.35	154.45
9/4/2008	22:00	25.18	8.82	2.290	11.28	140.68
9/4/2008	23:00	24.98	8.81	2.290	10.03	124.63
9/5/2008	0:00	24.73	8.81	2.280	9.12	112.80
9/5/2008	1:00	24.54	8.81	2.280	8.82	108.70
9/5/2008	2:00	24.41	8.83	2.280	8.94	109.91
9/5/2008	3:00	24.15	8.81	2.250	8.30	101.55
9/5/2008	4:00	23.86	8.77	2.240	8.64	105.13
9/5/2008	5:00	23.73	8.72	2.230	8.37	101.60
9/5/2008	6:00	23.44	8.70	2.220	7.71	93.08
9/5/2008	7:00	23.29	8.66	2.220	6.96	83.78
9/5/2008	8:00	23.17	8.62	2.210	6.20	74.46
9/5/2008	9:00	23.09	8.55	2.200	6.28	75.31
9/5/2008	10:00	23.08	8.51	2.200	5.84	70.02
9/5/2008	11:00	23.12	8.47	2.160	6.67	80.03
9/5/2008	12:00	23.10	8.48	2.160	8.15	97.75

Appendix Table A - 6. Continued.

LORAMIE CREEK @ FESSLER-BUXTON RD

River Mile: 1.87
Storet: 600320
Flow Regime: Low Stable
Local Rainfall: Light-Discrete Span
Local Substrate: Sand/Silt
Local Depth (ft) 3.5
Local Velocity (ft/s): 0-0.1

Date	Time	Temp C	pH (SU)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Dissolved Oxygen (% sat)
9/3/2008	18:00	22.75	7.72	0.872	8.42	100.32
9/3/2008	19:00	22.90	7.72	0.871	8.28	98.94
9/3/2008	20:00	22.98	7.70	0.870	8.32	99.56
9/3/2008	21:00	23.01	7.72	0.861	7.90	94.59
9/3/2008	22:00	23.15	7.70	0.861	7.89	94.73
9/3/2008	23:00	23.22	7.76	0.856	7.39	88.84
9/4/2008	0:00	23.00	7.76	0.854	7.31	87.51
9/4/2008	1:00	22.79	7.73	0.853	7.04	83.94
9/4/2008	2:00	22.57	7.70	0.853	6.30	74.80
9/4/2008	3:00	22.34	7.70	0.855	6.23	73.65
9/4/2008	4:00	22.11	7.68	0.856	5.86	68.97
9/4/2008	5:00	21.91	7.67	0.857	5.57	65.30
9/4/2008	6:00	21.72	7.66	0.858	5.39	62.96
9/4/2008	7:00	21.52	7.65	0.861	5.24	60.97
9/4/2008	8:00	21.41	7.64	0.865	5.15	59.79
9/4/2008	9:00	21.32	7.65	0.872	5.36	62.12
9/4/2008	10:00	21.40	7.65	0.876	5.59	64.89
9/4/2008	11:00	21.50	7.64	0.877	5.71	66.41
9/4/2008	12:00	21.59	7.66	0.876	5.95	69.32
9/4/2008	13:00	21.69	7.65	0.875	6.18	72.14
9/4/2008	14:00	21.81	7.65	0.877	6.34	74.18
9/4/2008	15:00	21.95	7.66	0.877	6.54	76.73
9/4/2008	16:00	22.05	7.65	0.877	6.57	77.23
9/4/2008	17:00	22.14	7.66	0.877	6.74	79.37
9/4/2008	18:00	22.24	7.65	0.873	6.89	81.29
9/4/2008	19:00	22.29	7.65	0.870	6.90	81.49
9/4/2008	20:00	22.27	7.68	0.866	7.16	84.53
9/4/2008	21:00	22.25	7.69	0.862	7.18	84.73
9/4/2008	22:00	22.21	7.69	0.862	7.04	83.01
9/4/2008	23:00	22.11	7.69	0.863	6.62	77.91
9/5/2008	0:00	22.04	7.71	0.864	6.47	76.04
9/5/2008	1:00	21.90	7.72	0.863	6.37	74.66
9/5/2008	2:00	21.74	7.69	0.863	6.05	70.69
9/5/2008	3:00	21.54	7.68	0.856	5.85	68.09
9/5/2008	4:00	21.41	7.66	0.858	5.52	64.09
9/5/2008	5:00	21.32	7.65	0.858	5.36	62.12
9/5/2008	6:00	21.14	7.64	0.859	5.28	60.98
9/5/2008	7:00	21.08	7.63	0.858	5.04	58.14
9/5/2008	8:00	20.96	7.64	0.857	5.25	60.42
9/5/2008	9:00	20.91	7.61	0.860	4.87	55.99
9/5/2008	10:00	20.85	7.60	0.863	4.80	55.12
9/5/2008	11:00	20.79	7.60	0.864	4.93	56.55
9/5/2008	12:00	20.81	7.58	0.864	4.64	53.24
9/5/2008	13:00	20.87	7.59	0.861	5.06	58.13
9/5/2008	14:00	20.97	7.59	0.861	5.09	58.59
9/5/2008	15:00	21.02	7.58	0.860	5.18	59.68
9/5/2008	16:00	21.08	7.59	0.862	5.20	59.98
9/5/2008	17:00	21.13	7.57	0.863	4.98	57.50

Appendix Table A - 6. Continued.

MIAMI ERIE CANAL NEAR MOUTH

River Mile: 0.1
Storet: H02S14
Flow Regime: Low Stable
Local Rainfall: Light-Discrete Span
Local Substrate: Gravel
Local Depth (ft) 0.6
Local Velocity (ft/s): 0.25-0.75

Date	Time	Temp C	pH (SU)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Dissolved Oxygen (% sat)
9/3/2008	17:00	27.82	7.68	1.980	12.15	158.96
9/3/2008	18:00	27.61	7.69	1.740	11.28	147.03
9/3/2008	19:00	27.40	7.67	1.580	9.86	128.04
9/3/2008	20:00	27.19	7.65	1.560	8.37	108.28
9/3/2008	21:00	26.65	7.61	1.510	7.31	93.65
9/3/2008	22:00	26.16	7.60	1.540	6.70	85.08
9/3/2008	23:00	25.58	7.57	1.570	6.12	76.89
9/4/2008	0:00	24.97	7.54	1.580	5.66	70.31
9/4/2008	1:00	24.38	7.52	1.610	5.37	65.98
9/4/2008	2:00	23.83	7.50	1.630	5.16	62.75
9/4/2008	3:00	23.35	7.48	1.640	5.05	60.86
9/4/2008	4:00	22.94	7.47	1.670	5.00	59.79
9/4/2008	5:00	22.58	7.46	1.690	5.00	59.38
9/4/2008	6:00	22.29	7.45	1.710	5.03	59.40
9/4/2008	7:00	22.02	7.45	1.730	5.06	59.45
9/4/2008	8:00	21.85	7.45	1.750	5.34	62.53
9/4/2008	9:00	22.02	7.46	1.780	6.47	76.01
9/4/2008	10:00	22.39	7.48	1.810	7.59	89.81
9/4/2008	11:00	22.89	7.50	1.840	8.85	105.73
9/4/2008	12:00	23.78	7.52	1.830	10.56	128.30
9/4/2008	13:00	24.46	7.55	1.800	11.60	142.75
9/4/2008	14:00	24.63	7.57	1.740	11.67	144.06
9/4/2008	15:00	24.81	7.59	1.690	11.11	137.61
9/4/2008	16:00	25.17	7.61	1.610	11.37	141.77
9/4/2008	17:00	25.36	7.62	1.560	10.93	136.77
9/4/2008	18:00	25.47	7.63	1.540	10.40	130.40
9/4/2008	19:00	25.29	7.61	1.540	8.87	110.85
9/4/2008	20:00	25.09	7.59	1.550	7.93	98.73
9/4/2008	21:00	24.80	7.57	1.580	7.17	88.79
9/4/2008	22:00	24.35	7.55	1.620	6.54	80.31
9/4/2008	23:00	23.82	7.54	1.640	6.03	73.32
9/5/2008	0:00	23.46	7.51	1.670	5.61	67.75
9/5/2008	1:00	23.08	7.50	1.700	5.38	64.50
9/5/2008	2:00	22.59	7.49	1.730	5.28	62.72
9/5/2008	3:00	22.14	7.48	1.750	5.24	61.70
9/5/2008	4:00	21.90	7.47	1.770	5.19	60.83
9/5/2008	5:00	21.62	7.46	1.790	5.22	60.85
9/5/2008	6:00	21.39	7.45	1.810	5.28	61.28
9/5/2008	7:00	21.22	7.45	1.820	5.38	62.23
9/5/2008	8:00	21.16	7.46	1.830	5.51	63.66
9/5/2008	9:00	21.11	7.46	1.840	5.55	64.06
9/5/2008	10:00	21.14	7.46	1.840	5.98	69.06
9/5/2008	11:00	21.31	7.47	1.850	7.02	81.34
9/5/2008	12:00	21.45	7.48	1.840	7.83	90.98
9/5/2008	13:00	21.97	7.51	1.810	9.29	109.04

Appendix Table A - 6. Continued.

MILE CREEK @ SR 705

River Mile: 0.5
Storet: H02P04
Flow Regime: Low Stable
Local Rainfall: Light-Discrete Span
Local Substrate: Gravel/Sand
Local Depth (ft) 1.5
Local Velocity (ft/s): 0-0.1

Date	Time	Temp C	pH (SU)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Dissolved Oxygen (% sat)
9/3/2008	16:00	27.96	7.74	1.490	7.43	97.45
9/3/2008	17:00	28.59	7.79	1.580	7.93	105.18
9/3/2008	18:00	29.12	7.82	1.550	8.57	114.73
9/3/2008	19:00	29.19	7.82	1.530	8.35	111.92
9/3/2008	20:00	29.16	7.78	1.560	7.59	101.68
9/3/2008	21:00	28.95	7.92	1.500	8.71	116.26
9/3/2008	22:00	27.97	7.88	1.500	7.80	102.32
9/3/2008	23:00	27.48	7.86	1.510	7.41	96.36
9/4/2008	0:00	27.07	7.83	1.510	6.93	89.46
9/4/2008	1:00	26.70	7.81	1.510	6.69	85.79
9/4/2008	2:00	26.34	7.74	1.500	5.74	73.12
9/4/2008	3:00	25.87	7.71	1.500	5.24	66.19
9/4/2008	4:00	25.44	7.70	1.510	5.20	65.16
9/4/2008	5:00	25.04	7.64	1.510	4.30	53.49
9/4/2008	6:00	24.65	7.63	1.510	4.48	55.33
9/4/2008	7:00	24.45	7.62	1.510	4.39	54.01
9/4/2008	8:00	24.19	7.61	1.500	4.12	50.44
9/4/2008	9:00	24.15	7.59	1.510	3.95	48.33
9/4/2008	10:00	24.33	7.59	1.510	4.09	50.21
9/4/2008	11:00	24.69	7.62	1.500	4.65	57.47
9/4/2008	12:00	25.29	7.65	1.500	5.22	65.23
9/4/2008	13:00	25.95	7.71	1.500	6.49	82.09
9/4/2008	14:00	26.38	7.74	1.500	7.03	89.62
9/4/2008	15:00	26.55	7.80	1.510	7.65	97.83
9/4/2008	16:00	26.66	7.85	1.510	8.27	105.97
9/4/2008	17:00	26.67	7.88	1.510	8.41	107.78
9/4/2008	18:00	26.73	7.89	1.500	8.35	107.13
9/4/2008	19:00	26.65	7.88	1.500	8.22	105.31
9/4/2008	20:00	26.53	7.85	1.500	7.75	99.07
9/4/2008	21:00	26.35	7.83	1.510	7.49	95.44
9/4/2008	22:00	26.06	7.80	1.520	7.00	88.72
9/4/2008	23:00	25.78	7.73	1.500	6.08	76.67
9/5/2008	0:00	25.34	7.69	1.500	5.59	69.92
9/5/2008	1:00	25.00	7.66	1.500	5.38	66.87
9/5/2008	2:00	24.59	7.60	1.500	4.62	56.99
9/5/2008	3:00	24.02	7.62	1.500	4.55	55.53
9/5/2008	4:00	23.88	7.57	1.510	4.36	53.07
9/5/2008	5:00	23.48	7.57	1.510	4.25	51.34
9/5/2008	6:00	23.30	7.56	1.500	4.04	48.64
9/5/2008	7:00	23.14	7.53	1.510	3.79	45.49
9/5/2008	8:00	22.92	7.52	1.500	3.61	43.15
9/5/2008	9:00	22.82	7.50	1.500	3.45	41.16
9/5/2008	10:00	22.76	7.50	1.500	3.33	39.68
9/5/2008	11:00	22.76	7.51	1.500	3.62	43.14
9/5/2008	12:00	22.78	7.53	1.490	4.04	48.16
9/5/2008	13:00	23.11	7.61	1.500	5.00	59.98

Appendix Table A - 7. Hourly data recorded with datasonde continuous monitors in the Upper Great Miami River study area in 2009.

GREAT MIAMI RIVER @ US 33 (LAKEVIEW)

River Mile: 159.5
Storet: 600000
Flow Regime: Low Stable
Local Rainfall: None

Local Substrate: Gravel/Sand
Local Depth (ft) 1
Local Velocity (ft/s): 0.25-0.75

Date	Time	Temp C	pH (SU)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Dissolved Oxygen (% sat)
6/23/2009	10:00	25.2	8.05	0.368	6.16	76.85
6/23/2009	11:00	25.76	8.18	0.364	7.12	89.75
6/23/2009	12:00	27.16	8.46	0.356	8.29	107.19
6/23/2009	13:00	28.59	8.65	0.353	9.13	121.09
6/23/2009	14:00	29.57	8.71	0.352	9.34	126.02
6/23/2009	15:00	30.09	8.76	0.356	9.15	124.58
6/23/2009	16:00	30.6	8.78	0.354	9.11	125.13
6/23/2009	17:00	30.72	8.78	0.351	8.73	120.16
6/23/2009	18:00	30.38	8.79	0.35	8.42	115.21
6/23/2009	19:00	29.94	8.78	0.348	8.19	111.22
6/23/2009	20:00	29.47	8.71	0.348	7.72	103.98
6/23/2009	21:00	28.98	8.62	0.349	7.2	96.15
6/23/2009	22:00	28.5	8.5	0.352	6.48	85.81
6/23/2009	23:00	27.94	8.31	0.357	5.6	73.42
6/24/2009	0:00	27.4	8.14	0.362	4.95	64.28
6/24/2009	1:00	26.91	8.01	0.364	4.36	56.12
6/24/2009	2:00	26.46	7.91	0.367	3.86	49.28
6/24/2009	3:00	26.04	7.82	0.368	3.54	44.85
6/24/2009	4:00	25.67	7.77	0.369	3.39	42.66
6/24/2009	5:00	25.36	7.74	0.37	3.38	42.29
6/24/2009	6:00	25.13	7.72	0.369	3.34	41.62
6/24/2009	7:00	24.92	7.71	0.37	3.41	42.32
6/24/2009	8:00	24.87	7.72	0.369	3.7	45.88
6/24/2009	9:00	25.14	7.74	0.37	4.23	52.72
6/24/2009	10:00	25.58	7.8	0.368	4.83	60.68
6/24/2009	11:00	26.2	7.95	0.363	5.91	75.10
6/24/2009	12:00	28.07	8.42	0.351	7.89	103.69
6/24/2009	13:00	29.75	8.65	0.347	8.72	118.03
6/24/2009	14:00	31.16	8.71	0.344	8.75	121.34
6/24/2009	15:00	32.44	8.73	0.345	8.69	123.14
6/24/2009	16:00	33.1	8.74	0.345	8.44	120.93
6/24/2009	17:00	32.96	8.73	0.345	8.15	116.50
6/24/2009	18:00	32.61	8.67	0.344	7.44	105.73
6/24/2009	19:00	32	8.65	0.343	7.13	100.29
6/24/2009	20:00	31.29	8.63	0.344	6.95	96.59
6/24/2009	21:00	30.65	8.54	0.346	6.33	87.02
6/24/2009	22:00	29.99	8.38	0.349	5.57	75.71
6/24/2009	23:00	29.41	8.19	0.351	4.87	65.53
6/25/2009	0:00	28.95	8.01	0.355	4.23	56.46
6/25/2009	1:00	28.5	7.89	0.358	3.7	49.00
6/25/2009	2:00	28.04	7.78	0.359	3.14	41.24
6/25/2009	3:00	27.71	7.74	0.363	2.76	36.04
6/25/2009	4:00	27.33	7.69	0.365	2.61	33.85
6/25/2009	5:00	27.04	7.66	0.366	2.47	31.87
6/25/2009	6:00	26.74	7.65	0.366	2.14	27.46
6/25/2009	7:00	26.49	7.64	0.369	2.56	32.70
6/25/2009	8:00	26.39	7.64	0.369	3.03	38.64
6/25/2009	9:00	26.53	7.67	0.369	3.61	46.15
6/25/2009	10:00	26.87	7.87	0.366	5.58	71.77
6/25/2009	11:00	28.21	8.49	0.36	8.1	106.71
6/25/2009	12:00	29.16	8.59	0.357	8.4	112.53
6/25/2009	13:00	30.62	8.73	0.349	8.81	121.05
6/25/2009	14:00	31.23	8.74	0.345	8.68	120.51
6/25/2009	15:00	31.93	8.75	0.341	8.58	120.55
6/25/2009	16:00	32.45	8.74	0.339	8.68	123.02

Appendix Table A- 7. Continued.

GREAT MIAMI RIVER UPSTREAM INDIAN LAKE WWTP

River Mile: 158.1
Storet: H01W13
Flow Regime: Low Stable
Local Rainfall: None

Local Substrate: Gravel/Sand
Local Depth (ft) 2.75
Local Velocity (ft/s): 0.1-0.25

Date	Time	Temp C	pH (SU)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Dissolved Oxygen (% sat)
6/23/2009	12:00	22.68		0.63	5.78	68.77
6/23/2009	13:00	22.88		0.636	5.93	70.83
6/23/2009	14:00	23.17		0.638	6.11	73.38
6/23/2009	15:00	23.83		0.633	6.42	78.08
6/23/2009	16:00	24.72		0.617	6.8	84.09
6/23/2009	17:00	25.69		0.57	7.22	90.89
6/23/2009	18:00	26.5		0.534	7.3	93.27
6/23/2009	19:00	27.18		0.499	6.98	90.28
6/23/2009	20:00	27.51		0.496	6.63	86.26
6/23/2009	21:00	27.63		0.493	6.41	83.58
6/23/2009	22:00	27.55		0.481	6.18	80.47
6/23/2009	23:00	27.29		0.473	5.91	76.59
6/24/2009	0:00	26.92		0.472	5.66	72.87
6/24/2009	1:00	26.49		0.479	5.45	69.62
6/24/2009	2:00	26.01		0.489	5.29	66.99
6/24/2009	3:00	25.57		0.499	5.12	64.31
6/24/2009	4:00	25.15		0.508	5	62.32
6/24/2009	5:00	24.73		0.519	4.89	60.48
6/24/2009	6:00	24.33		0.532	4.81	59.05
6/24/2009	7:00	23.88		0.553	4.82	58.67
6/24/2009	8:00	23.48		0.578	4.93	59.56
6/24/2009	9:00	23.21		0.604	5.1	61.30
6/24/2009	10:00	23.09		0.623	5.21	62.48
6/24/2009	11:00	23.08		0.636	5.37	64.39
6/24/2009	12:00	23.22		0.644	5.52	66.36
6/24/2009	13:00	23.42		0.649	5.69	68.66
6/24/2009	14:00	23.74		0.651	5.91	71.75
6/24/2009	15:00	24.32		0.652	6.2	76.10
6/24/2009	16:00	24.91		0.645	6.39	79.30
6/24/2009	17:00	25.59		0.613	6.59	82.81
6/24/2009	18:00	26.5		0.566	6.79	86.75
6/24/2009	19:00	27.09		0.548	6.6	85.23
6/24/2009	20:00	27.55		0.535	6.3	82.03
6/24/2009	21:00	28.08		0.519	5.99	78.73
6/24/2009	22:00	28.26		0.514	5.76	75.95
6/24/2009	23:00	27.97		0.524	5.6	73.46
6/25/2009	0:00	27.65		0.526	5.38	70.18
6/25/2009	1:00	27.34		0.525	5.17	67.06
6/25/2009	2:00	27.03		0.523	4.98	64.24
6/25/2009	3:00	26.72		0.522	4.87	62.47
6/25/2009	4:00	26.42		0.524	4.71	60.09
6/25/2009	5:00	26.07		0.531	4.62	58.57
6/25/2009	6:00	25.71		0.543	4.56	57.43
6/25/2009	7:00	25.31		0.56	4.56	57.01
6/25/2009	8:00	24.93		0.582	4.62	57.35
6/25/2009	9:00	24.67		0.607	4.75	58.68
6/25/2009	10:00	24.5		0.627	4.84	59.60
6/25/2009	11:00	24.45		0.644	4.99	61.39
6/25/2009	12:00	24.52		0.65	5.15	63.45
6/25/2009	13:00	24.66		0.651	5.4	66.70
6/25/2009	14:00	25		0.653	5.66	70.35
6/25/2009	15:00	25.48		0.641	5.88	73.74

Appendix Table A- 7. Continued.

GREAT MIAMI RIVER @ SR 235 (RUSSELLS POINT)

River Mile: 157.3
Storet: H01P04
Flow Regime: Low Stable
Local Rainfall: None
Local Substrate: Gravel/Sand
Local Depth (ft) 1
Local Velocity (ft/s): 0.25-0.75

Date	Time	Temp C	pH (SU)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Dissolved Oxygen (% sat)
6/23/2009	11:00	23.24	7.66	0.759	5.6	67.35
6/23/2009	12:00	23.47	7.7	0.765	5.87	70.90
6/23/2009	13:00	23.81	7.73	0.772	6.18	75.13
6/23/2009	14:00	24.18	7.76	0.778	6.52	79.81
6/23/2009	15:00	24.23	7.78	0.796	6.71	82.22
6/23/2009	16:00	24.15	7.79	0.825	6.77	82.83
6/23/2009	17:00	24.19	7.81	0.844	6.82	83.50
6/23/2009	18:00	24.06	7.83	0.819	6.8	83.06
6/23/2009	19:00	23.82	7.84	0.792	6.68	81.22
6/23/2009	20:00	23.77	7.84	0.753	6.57	79.81
6/23/2009	21:00	24.07	7.86	0.715	6.63	80.99
6/23/2009	22:00	24.52	7.89	0.674	6.63	81.68
6/23/2009	23:00	24.98	7.91	0.64	6.49	80.64
6/24/2009	0:00	25.41	7.92	0.612	6.36	79.66
6/24/2009	1:00	25.57	7.92	0.597	6.32	79.39
6/24/2009	2:00	25.51	7.9	0.592	6.18	77.54
6/24/2009	3:00	25.34	7.87	0.589	5.76	72.05
6/24/2009	4:00	25.08	7.84	0.59	5.44	67.72
6/24/2009	5:00	24.79	7.8	0.596	5.2	64.38
6/24/2009	6:00	24.51	7.77	0.604	5.02	61.83
6/24/2009	7:00	24.22	7.74	0.617	4.9	60.03
6/24/2009	8:00	23.99	7.72	0.635	4.9	59.77
6/24/2009	9:00	23.88	7.7	0.656	5	60.86
6/24/2009	10:00	23.91	7.69	0.675	5.11	62.24
6/24/2009	11:00	24.05	7.69	0.687	5.32	64.97
6/24/2009	12:00	24.31	7.7	0.694	5.62	68.97
6/24/2009	13:00	24.62	7.71	0.696	5.99	73.93
6/24/2009	14:00	24.9	7.74	0.7	6.35	78.78
6/24/2009	15:00	24.82	7.74	0.713	6.42	79.53
6/24/2009	16:00	24.85	7.76	0.736	6.61	81.93
6/24/2009	17:00	24.84	7.76	0.759	6.66	82.54
6/24/2009	18:00	24.74	7.77	0.767	6.54	80.90
6/24/2009	19:00	24.54	7.77	0.763	6.41	79.00
6/24/2009	20:00	24.36	7.77	0.754	6.38	78.36
6/24/2009	21:00	24.29	7.77	0.745	6.2	76.05
6/24/2009	22:00	24.34	7.77	0.728	6.03	74.04
6/24/2009	23:00	24.67	7.78	0.702	6.03	74.50
6/25/2009	0:00	25.04	7.79	0.681	6	74.64
6/25/2009	1:00	25.27	7.78	0.667	5.92	73.95
6/25/2009	2:00	25.42	7.77	0.654	5.71	71.53
6/25/2009	3:00	25.52	7.75	0.641	5.35	67.14
6/25/2009	4:00	25.53	7.73	0.628	4.99	62.64
6/25/2009	5:00	25.44	7.71	0.627	4.83	60.53
6/25/2009	6:00	25.25	7.69	0.631	4.65	58.07
6/25/2009	7:00	25.03	7.67	0.641	4.54	56.46
6/25/2009	8:00	24.85	7.66	0.655	4.52	56.03
6/25/2009	9:00	24.79	7.65	0.67	4.59	56.83
6/25/2009	10:00	24.85	7.64	0.681	4.67	57.89
6/25/2009	11:00	25.1	7.65	0.688	4.84	60.27
6/25/2009	12:00	25.39	7.65	0.691	5.1	63.85
6/25/2009	13:00	25.53	7.67	0.692	5.31	66.65
6/25/2009	14:00	25.6	7.69	0.676	5.58	70.13
6/25/2009	15:00	25.53	7.7	0.684	5.77	72.43

Appendix Table A- 7. Continued.

GREAT MIAMI RIVER @ CR 13 (NOTESTINE RD)

River Mile: 153.5
Storet: H01S03
Flow Regime: Low Stable
Local Rainfall: None
Local Substrate: Silt
Local Depth (ft) 2.5
Local Velocity (ft/s): 0-0.1

Date	Time	Temp C	pH (SU)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Dissolved Oxygen (% sat)
6/23/2009	12:00	22.86	7.73	0.642	4.36	52.06
6/23/2009	13:00	23.09	7.75	0.639	4.45	53.36
6/23/2009	14:00	23.29	7.75	0.641	4.55	54.77
6/23/2009	15:00	23.39	7.75	0.647	4.59	55.36
6/23/2009	16:00	23.47	7.75	0.656	4.57	55.20
6/23/2009	17:00	23.53	7.75	0.663	4.58	55.38
6/23/2009	18:00	23.5	7.75	0.671	4.54	54.87
6/23/2009	19:00	23.48	7.74	0.676	4.44	53.64
6/23/2009	20:00	23.48	7.73	0.679	4.34	52.43
6/23/2009	21:00	23.47	7.73	0.68	4.24	51.21
6/23/2009	22:00	23.42	7.73	0.681	4.18	50.44
6/23/2009	23:00	23.33	7.72	0.68	4.12	49.63
6/24/2009	0:00	23.24	7.72	0.679	4.09	49.19
6/24/2009	1:00	23.17	7.72	0.679	4.07	48.88
6/24/2009	2:00	23.22	7.72	0.679	4.1	49.29
6/24/2009	3:00	23.29	7.72	0.68	4.11	49.48
6/24/2009	4:00	23.29	7.72	0.682	4.12	49.60
6/24/2009	5:00	23.19	7.71	0.684	4.09	49.14
6/24/2009	6:00	23.07	7.7	0.686	4.04	48.43
6/24/2009	7:00	22.95	7.7	0.687	4.04	48.32
6/24/2009	8:00	22.89	7.7	0.691	4.06	48.50
6/24/2009	9:00	22.89	7.7	0.695	4.1	48.98
6/24/2009	10:00	22.95	7.7	0.699	4.11	49.16
6/24/2009	11:00	23.05	7.71	0.705	4.15	49.73
6/24/2009	12:00	23.22	7.71	0.712	4.22	50.73
6/24/2009	13:00	23.46	7.72	0.718	4.35	52.53
6/24/2009	14:00	23.69	7.73	0.722	4.48	54.34
6/24/2009	15:00	23.83	7.74	0.722	4.47	54.36
6/24/2009	16:00	23.85	7.74	0.721	4.49	54.62
6/24/2009	17:00	23.87	7.74	0.718	4.41	53.67
6/24/2009	18:00	23.85	7.74	0.713	4.33	52.68
6/24/2009	19:00	23.83	7.74	0.707	4.24	51.56
6/24/2009	20:00	23.81	7.73	0.699	4.16	50.57
6/24/2009	21:00	23.79	7.73	0.691	4.08	49.58
6/24/2009	22:00	23.77	7.73	0.682	4.04	49.08
6/24/2009	23:00	23.75	7.73	0.674	3.99	48.45
6/25/2009	0:00	23.74	7.73	0.666	3.93	47.71
6/25/2009	1:00	23.73	7.73	0.66	3.89	47.22
6/25/2009	2:00	23.75	7.73	0.654	3.89	47.24
6/25/2009	3:00	23.83	7.73	0.648	3.89	47.31
6/25/2009	4:00	23.93	7.73	0.646	3.89	47.40
6/25/2009	5:00	23.99	7.72	0.644	3.87	47.21
6/25/2009	6:00	23.99	7.72	0.646	3.84	46.84
6/25/2009	7:00	23.94	7.71	0.65	3.8	46.31
6/25/2009	8:00	23.93	7.71	0.658	3.81	46.42
6/25/2009	9:00	23.98	7.71	0.666	3.88	47.32
6/25/2009	10:00	24.07	7.71	0.674	3.9	47.64
6/25/2009	11:00	24.18	7.7	0.681	3.88	47.50
6/25/2009	12:00	24.38	7.71	0.688	3.99	49.03

Appendix Table A- 7. Continued.

GREAT MIAMI RIVER @ SR 47 NEAR LOGANSVILLE

River Mile: 148.6
Storet: H01S02
Flow Regime: Low Stable
Local Rainfall: None
Local Substrate: Gravel/Silt
Local Depth (ft) 2
Local Velocity (ft/s): 0.1-0.25

Date	Time	Temp C	pH (SU)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Dissolved Oxygen (% sat)
6/23/2009	11:00	22.4	7.75	0.596	5.78	68.40
6/23/2009	12:00	22.82	7.77	0.599	6.46	77.07
6/23/2009	13:00	23.27	7.79	0.602		
6/23/2009	14:00	23.79	7.82	0.605	6.85	83.24
6/23/2009	15:00	24.21	7.84	0.608	7.35	90.03
6/23/2009	16:00	24.64	7.87	0.61	7.52	92.85
6/23/2009	17:00	24.96	7.89	0.614	7.79	96.76
6/23/2009	18:00	25.13	7.89	0.618	7.55	94.07
6/23/2009	19:00	25.09	7.88	0.623	7.46	92.88
6/23/2009	20:00	25	7.86	0.628	7.22	89.74
6/23/2009	21:00	24.85	7.83	0.634		
6/23/2009	22:00	24.65	7.81	0.64	6.59	81.38
6/23/2009	23:00	24.4	7.79	0.647	6.15	75.60
6/24/2009	0:00	24.11	7.77	0.653	5.96	72.86
6/24/2009	1:00	23.83	7.74	0.659	5.63	68.47
6/24/2009	2:00	23.55	7.73	0.663	5.47	66.17
6/24/2009	3:00	23.27	7.71	0.665	5.3	63.78
6/24/2009	4:00	22.98	7.7	0.665	5.16	61.75
6/24/2009	5:00	22.7	7.69	0.664	5.16	61.42
6/24/2009	6:00	22.43	7.69	0.662	5.02	59.44
6/24/2009	7:00	22.19	7.68	0.662	5.04	59.41
6/24/2009	8:00	22.02	7.68	0.663	5.14	60.39
6/24/2009	9:00	21.97	7.68	0.666	5.19	60.92
6/24/2009	10:00	22.15	7.7	0.671	5.56	65.49
6/24/2009	11:00	22.5	7.72	0.676	5.98	70.91
6/24/2009	12:00	22.94	7.74	0.681		
6/24/2009	13:00	23.42	7.76	0.685	5.97	72.04
6/24/2009	14:00	23.79	7.78	0.688	6.89	83.73
6/24/2009	15:00	24.33	7.81	0.69	7.35	90.23
6/24/2009	16:00	24.65	7.82	0.691	7.55	93.24
6/24/2009	17:00	25.01	7.84	0.691	7.91	98.34
6/24/2009	18:00	25.22	7.86	0.692	7.93	98.97
6/24/2009	19:00	25.21	7.85	0.692	7.55	94.21
6/24/2009	20:00	25.14	7.83	0.693	7.09	88.36
6/24/2009	21:00	25.06	7.81	0.694	6.93	86.24
6/24/2009	22:00	24.92	7.79	0.694	6.64	82.41
6/24/2009	23:00	24.74	7.77	0.695		
6/25/2009	0:00	24.56	7.75	0.696	5.67	69.90
6/25/2009	1:00	24.39	7.73	0.697	5.83	71.65
6/25/2009	2:00	24.21	7.72	0.699	5.6	68.59
6/25/2009	3:00	24.04	7.7	0.701	5.42	66.18
6/25/2009	4:00	23.86	7.68	0.703	5.28	64.25
6/25/2009	5:00	23.67	7.67	0.706	5.15	62.44
6/25/2009	6:00	23.46	7.66	0.71	5.07	61.23
6/25/2009	7:00	23.27	7.66	0.714	5.01	60.29
6/25/2009	8:00	23.12	7.66	0.718	5.02	60.23
6/25/2009	9:00	23.08	7.66	0.72	5.13	61.51
6/25/2009	10:00	23.25	7.68	0.722	5.46	65.68

Appendix Table A- 7. Continued.

GREAT MIAMI RIVER @ SR 235 (DEGRAFF)

River Mile: 146.7
Storet: H01S20
Flow Regime: Normal Declining
Local Rainfall: None
Local Substrate: Gravel
Local Depth (ft) 3.5
Local Velocity (ft/s): 0.25-0.75

Date	Time	Temp C	pH (SU)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Dissolved Oxygen (% sat)
6/23/2009	11:00	22.86	7.92	0.562	5.58	66.62
6/23/2009	12:00	23.16		0.56	6.02	72.29
6/23/2009	13:00	23.5	7.94	0.558	6.45	77.95
6/23/2009	14:00	23.93	7.96	0.558	7	85.29
6/23/2009	15:00	24.35	7.98	0.559	7.41	91.00
6/23/2009	16:00	24.4	8	0.559	7.64	93.91
6/23/2009	17:00	24.4	8.01	0.56	7.84	96.37
6/23/2009	18:00	24.41	7.99	0.561	7.8	95.90
6/23/2009	19:00	24.39	7.97	0.562	7.75	95.25
6/23/2009	20:00	24.36	7.95	0.565	7.6	93.35
6/23/2009	21:00	24.36	7.93	0.567	7.39	90.77
6/23/2009	22:00	24.33	7.92	0.569	7.18	88.14
6/23/2009	23:00	24.27	7.89	0.571	6.99	85.71
6/24/2009	0:00	24.18	7.88	0.572	6.81	83.36
6/24/2009	1:00	24.09	7.86	0.575	6.62	80.90
6/24/2009	2:00	23.99	7.85	0.577	6.43	78.43
6/24/2009	3:00	23.89	7.84	0.579	6.24	75.97
6/24/2009	4:00	23.8	7.82	0.581	6.06	73.66
6/24/2009	5:00	23.69	7.81	0.585	5.85	70.96
6/24/2009	6:00	23.57	7.79	0.589	5.63	68.13
6/24/2009	7:00	23.43	7.78	0.593	5.43	65.54
6/24/2009	8:00	23.3	7.77	0.598	5.28	63.57
6/24/2009	9:00	23.22	7.77	0.603	5.21	62.63
6/24/2009	10:00	23.19	7.76	0.608	5.23	62.84
6/24/2009	11:00	23.31	7.76	0.612	5.41	65.15
6/24/2009	12:00	23.58	7.78	0.619	5.78	69.96
6/24/2009	13:00	24.03	7.8	0.623	6.26	76.42
6/24/2009	14:00	24.44	7.82	0.626	6.72	82.66
6/24/2009	15:00	24.75	7.85	0.628	7.1	87.84
6/24/2009	16:00	24.85	7.87	0.629	7.49	92.84
6/24/2009	17:00	24.77	7.87	0.629	7.57	93.69
6/24/2009	18:00	24.76	7.88	0.63	7.68	95.04
6/24/2009	19:00	24.79	7.88	0.632	7.62	94.35
6/24/2009	20:00	24.76	7.86	0.634	7.44	92.07
6/24/2009	21:00	24.75	7.85	0.636	7.26	89.82
6/24/2009	22:00	24.74	7.84	0.639	7.07	87.46
6/24/2009	23:00	24.72	7.83	0.642	6.95	85.94
6/25/2009	0:00	24.69	7.83	0.645	6.81	84.16
6/25/2009	1:00	24.63	7.82	0.647	6.61	81.60
6/25/2009	2:00	24.57	7.81	0.65	6.49	80.03
6/25/2009	3:00	24.51	7.8	0.652	6.27	77.23
6/25/2009	4:00	24.45	7.8	0.653	6.15	75.67
6/25/2009	5:00	24.37	7.79	0.654	5.97	73.34
6/25/2009	6:00	24.28	7.78	0.656	5.73	70.28
6/25/2009	7:00	24.17	7.76	0.657	5.52	67.56
6/25/2009	8:00	24.08	7.76	0.657	5.34	65.25
6/25/2009	9:00	24.03	7.75	0.658	5.24	63.97
6/25/2009	10:00	24.03	7.74	0.659	5.26	64.21
6/25/2009	11:00	24.17	7.74	0.659	5.38	65.85
6/25/2009	12:00	24.51	7.77	0.66	5.89	72.55
6/25/2009	13:00	25	7.8	0.662	6.52	81.04
6/25/2009	14:00	25.43	7.83	0.663	7.17	89.83
6/25/2009	15:00	25.67	7.86	0.665	7.78	97.91
6/25/2009	16:00	25.84	7.89	0.667	8.28	104.53

Appendix Table A- 7. Continued.

MUCHINIPPI CREEK @ CR 60

River Mile: 0.32
Storet: H01P08
Flow Regime: Low Stable
Local Rainfall: None
Local Substrate: Silt
Local Depth (ft) 4.2
Local Velocity (ft/s): 0-0.1

Date	Time	Temp C	pH (SU)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Dissolved Oxygen (% sat)
6/23/2009	13:00	24.45	7.52	0.629	4.45	54.75
6/23/2009	14:00	25.07	7.55	0.629	4.5	56.01
6/23/2009	15:00	25.3	7.57	0.629	4.44	55.50
6/23/2009	16:00	25.45	7.58	0.629	4.34	54.40
6/23/2009	17:00	25.55	7.58	0.628	4.32	54.25
6/23/2009	18:00	25.7	7.58	0.627	4.22	53.14
6/23/2009	19:00	25.82	7.58	0.626	4.1	51.74
6/23/2009	20:00	25.8	7.56	0.626	4.01	50.58
6/23/2009	21:00	25.6	7.55	0.625	3.85	48.39
6/23/2009	22:00	25.3	7.54	0.623	3.73	46.62
6/23/2009	23:00	25.05	7.54	0.623	3.52	43.79
6/24/2009	0:00	24.88	7.53	0.622	3.51	43.53
6/24/2009	1:00	24.79	7.56	0.621	3.71	45.94
6/24/2009	2:00	24.74	7.56	0.62	3.7	45.77
6/24/2009	3:00	24.71	7.56	0.62	3.62	44.76
6/24/2009	4:00	24.61	7.56	0.62	4	49.36
6/24/2009	5:00	24.47	7.56	0.62	3.9	48.00
6/24/2009	6:00	24.26	7.55	0.62	3.75	45.97
6/24/2009	7:00	23.96	7.54	0.621	3.63	44.25
6/24/2009	8:00	23.72	7.54	0.621	3.62	43.93
6/24/2009	9:00	23.56	7.52	0.622	3.58	43.32
6/24/2009	10:00	23.54	7.55	0.622	3.55	42.94
6/24/2009	11:00	23.67	7.56	0.625	3.69	44.74
6/24/2009	12:00	24.09	7.57	0.627	3.84	46.93
6/24/2009	13:00	24.75	7.58	0.629	3.88	48.01
6/24/2009	14:00	25.45	7.59	0.631	3.98	49.88
6/24/2009	15:00	25.8	7.6	0.632	3.94	49.70
6/24/2009	16:00	25.97	7.6	0.633	3.87	48.97
6/24/2009	17:00	26.04	7.59	0.634	3.77	47.77
6/24/2009	18:00	26.22	7.6	0.635	3.76	47.80
6/24/2009	19:00	26.32	7.59	0.635	3.59	45.72
6/24/2009	20:00	26.36	7.59	0.636	3.5	44.60
6/24/2009	21:00	26.3	7.56	0.636	3.43	43.66
6/24/2009	22:00	26.09	7.55	0.636	3.74	47.43
6/24/2009	23:00	25.88	7.54	0.635	3.68	46.49
6/25/2009	0:00	25.74	7.55	0.634	3.55	44.73
6/25/2009	1:00	25.62	7.55	0.633	3.69	46.39
6/25/2009	2:00	25.54	7.57	0.632	3.76	47.20
6/25/2009	3:00	25.5	7.56	0.631	3.61	45.29
6/25/2009	4:00	25.44	7.56	0.63	3.55	44.49
6/25/2009	5:00	25.37	7.54	0.629	3.55	44.43
6/25/2009	6:00	25.25	7.52	0.629	3.23	40.34
6/25/2009	7:00	25.07	7.51	0.627	3.34	41.57
6/25/2009	8:00	24.85	7.51	0.626	3.16	39.17
6/25/2009	9:00	24.67	7.5	0.625	3.2	39.53
6/25/2009	10:00	24.6	7.5	0.625	3.12	38.49
6/25/2009	11:00	24.64	7.5	0.625	3.16	39.02
6/25/2009	12:00	24.96	7.54	0.625	3.35	41.61
6/25/2009	13:00	25.63	7.56	0.625	3.52	44.27

Appendix Table A- 7. Continued.

CHEROKEE MANS RUN NEAR MOUTH

River Mile: 0.01
Storet:
Flow Regime: Low Stable
Local Rainfall: None

Local Substrate: Gravel/Sand
Local Depth (ft) 2
Local Velocity (ft/s): 0.75-1.25

Date	Time	Temp C	pH (SU)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Dissolved Oxygen (% sat)
6/23/2009	10:40	20.8	8.11	0.725		
6/23/2009	11:40	21.33	8.14	0.726		
6/23/2009	12:40	22.05	8.15	0.727		
6/23/2009	13:40	22.75	8.16	0.729		
6/23/2009	14:40	23.3	8.16	0.73		
6/23/2009	15:40	23.7	8.16	0.73		
6/23/2009	16:40	24.04	8.16	0.728		
6/23/2009	17:40	24.25	8.16	0.727		
6/23/2009	18:40	24.38	8.15	0.726		
6/23/2009	19:40	24.42	8.14	0.725		
6/23/2009	20:40	24.3	8.13	0.724		
6/23/2009	21:40	24.01	8.12	0.723		
6/23/2009	22:40	23.67	8.11	0.721		
6/24/2009	23:40	23.33	8.1	0.726		
6/24/2009	0:40	23.03	8.09	0.725		
6/24/2009	1:40	22.76	8.09	0.725		
6/24/2009	2:40	22.47	8.09	0.725		
6/24/2009	3:40	22.17	8.08	0.726		
6/24/2009	4:40	21.86	8.08	0.726		
6/24/2009	5:40	21.56	8.08	0.672		
6/24/2009	6:40	21.29	8.08	0.727		
6/24/2009	7:40	21.09	8.07	0.727		
6/24/2009	8:40	21.03	8.08	0.727		
6/24/2009	9:40	21.11	8.08	0.659		
6/24/2009	10:40	21.36	8.09	0.728		
6/24/2009	11:40	21.91	8.1	0.713		
6/24/2009	12:40	22.63	8.11	0.73		
6/24/2009	13:40	23.32	8.11	0.731		
6/24/2009	14:40	23.93	8.12	0.728		
6/24/2009	15:40	24.36	8.12	0.727		
6/24/2009	16:40	24.71	8.12	0.73		
6/24/2009	17:40	24.92	8.12	0.729		
6/24/2009	18:40	25.06	8.11	0.661		
6/24/2009	19:40	25.11	8.1	0.726		
6/24/2009	20:40	24.99	8.1	0.726		
6/24/2009	21:40	24.75	8.09	0.726		
6/24/2009	22:40	24.46	8.08	0.725		
6/25/2009	23:40	24.19	8.07	0.725		
6/25/2009	0:40	23.99	8.06	0.724		
6/25/2009	1:40	23.81	8.06	0.724		
6/25/2009	2:40	23.6	8.06	0.724		
6/25/2009	3:40	23.39	8.06	0.724		
6/25/2009	4:40	23.17	8.05	0.725		
6/25/2009	5:40	22.93	8.05	0.725		
6/25/2009	6:40	22.69	8.05	0.725		
6/25/2009	7:40	22.52	8.05	0.725		
6/25/2009	8:40	22.47	8.06	0.726		
6/25/2009	9:40	22.53	8.06	0.726		
6/25/2009	10:40	22.74	8.07	0.727		
6/25/2009	11:40	23.29	8.07	0.726		
6/25/2009	12:40	24.02	8.08	0.727		
6/25/2009	13:40	24.67	8.08	0.727		
6/25/2009	14:40	25.03	8.1	0.732		
6/25/2009	15:40	25.39	8.1	0.731		

Appendix Table A- 7. Continued.

BRANDYWINE CREEK @ NOTESTINE RD

River Mile: 0.58
Storet: H01K10
Flow Regime: Low Stable
Local Rainfall: None
Local Substrate: Silt
Local Depth (ft) 1
Local Velocity (ft/s): 0.1-0.25

Date	Time	Temp C	pH (SU)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Dissolved Oxygen (% sat)
6/23/2009	12:00	23.7	7.76	0.565	8.14	98.75
6/23/2009	13:00	24.78	7.85	0.559	9.54	118.10
6/23/2009	14:00	26.08	7.95	0.552	10.95	138.84
6/23/2009	15:00	27.37	8.07	0.544	12.17	157.95
6/23/2009	16:00	28.29	8.12	0.539	12.73	167.95
6/23/2009	17:00	28.81	8.16	0.533	12.72	169.36
6/23/2009	18:00	29	8.17	0.526	12.51	167.12
6/23/2009	19:00	28.81	8.15	0.522	11.63	154.85
6/23/2009	20:00	28.26	8.09	0.519	10.4	137.14
6/23/2009	21:00	27.57	7.95	0.516	8.49	110.58
6/23/2009	22:00	26.96	7.81	0.51	6.87	88.51
6/23/2009	23:00	26.3	7.69	0.504	5.73	72.94
6/24/2009	0:00	25.67	7.62	0.5	5.04	63.43
6/24/2009	1:00	25.15	7.57	0.494	4.64	57.84
6/24/2009	2:00	24.66	7.53	0.489	4.27	52.74
6/24/2009	3:00	24.19	7.49	0.485	3.93	48.12
6/24/2009	4:00	23.71	7.47	0.485	3.59	43.56
6/24/2009	5:00	23.24	7.46	0.489	3.19	38.36
6/24/2009	6:00	22.75	7.44	0.497	2.87	34.19
6/24/2009	7:00	22.26	7.44	0.507	2.69	31.75
6/24/2009	8:00	21.93	7.44	0.52	2.76	32.37
6/24/2009	9:00	22.04	7.48	0.535	3.48	40.90
6/24/2009	10:00	22.83	7.57	0.549	5.14	61.33
6/24/2009	11:00	23.77	7.66	0.567	6.73	81.75
6/24/2009	12:00	24.66	7.75	0.577	8.38	103.51
6/24/2009	13:00	25.92	7.86	0.577	10.12	127.94
6/24/2009	14:00	27.39	7.98	0.571	11.87	154.11
6/24/2009	15:00	28.48	8.08	0.561	13.1	173.41
6/24/2009	16:00	29.14	8.14	0.553	13.51	180.93
6/24/2009	17:00	29.51	8.15	0.545	13.37	180.21
6/24/2009	18:00	29.62	8.14	0.538	12.47	168.40
6/24/2009	19:00	29.9	8.15	0.53	12.25	166.24
6/24/2009	20:00	29.41	8.08	0.526	10.71	144.11
6/24/2009	21:00	28.6	7.92	0.523	8.32	110.37
6/24/2009	22:00	27.89	7.76	0.519	6.52	85.41
6/24/2009	23:00	27.26	7.66	0.512	5.37	69.56
6/25/2009	0:00	26.66	7.58	0.509	4.55	58.30
6/25/2009	1:00	26.34	7.53	0.503	4.16	53.00
6/25/2009	2:00	26.01	7.5	0.496	3.88	49.13
6/25/2009	3:00	25.66	7.47	0.491	3.47	43.66
6/25/2009	4:00	25.27	7.45	0.488	3.2	39.98
6/25/2009	5:00	24.85	7.44	0.491	2.85	35.33
6/25/2009	6:00	24.42	7.43	0.496	2.52	30.99
6/25/2009	7:00	24.04	7.42	0.503	2.35	28.69
6/25/2009	8:00	23.69	7.43	0.514	2.44	29.60
6/25/2009	9:00	23.78	7.46	0.526	3.19	38.76
6/25/2009	10:00	24.5	7.55	0.538	4.83	59.48
6/25/2009	11:00	25.45	7.64	0.549	6.7	83.98
6/25/2009	12:00	26.35	7.74	0.557	8.47	107.92

Appendix Table A- 7. Continued.

RUM CREEK @ CR 58

River Mile: 0.79
Storet: H01K07
Flow Regime: Low Stable
Local Rainfall: None
Local Substrate: Gravel
Local Depth (ft) 1.1
Local Velocity (ft/s): 0.1-0.25

Date	Time	Temp C	pH (SU)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Dissolved Oxygen (% sat)
6/23/2009	11:00	22.42	7.78	0.602	6.25	74.00
6/23/2009	12:00	23.36	7.85	0.601	7.06	85.10
6/23/2009	13:00	24.55	7.91	0.599	7.95	98.00
6/23/2009	14:00	25.82	7.96	0.596	8.98	113.32
6/23/2009	15:00	26.78	7.97	0.593	9.43	121.10
6/23/2009	16:00	27.22	8	0.592	9.66	125.04
6/23/2009	17:00	27.72	8.02	0.589	9.9	129.30
6/23/2009	18:00	27.74	8.03	0.587	9.6	125.42
6/23/2009	19:00	27.24	8.01	0.586	9.07	117.44
6/23/2009	20:00	26.62	7.99	0.586	8.23	105.38
6/23/2009	21:00	26.09	7.95	0.587	7.44	94.35
6/23/2009	22:00	25.62	7.9	0.588	6.66	83.74
6/23/2009	23:00	25.24	7.86	0.588	6.11	76.29
6/24/2009	0:00	24.89	7.83	0.588	5.72	70.95
6/24/2009	1:00	24.52	7.81	0.588	5.38	66.28
6/24/2009	2:00	24.2	7.78	0.587	5.16	63.19
6/24/2009	3:00	23.9	7.77	0.587	5.04	61.37
6/24/2009	4:00	23.57	7.75	0.587	4.9	59.30
6/24/2009	5:00	23.23	7.73	0.588	4.83	58.08
6/24/2009	6:00	22.87	7.72	0.589	4.78	57.08
6/24/2009	7:00	22.54	7.7	0.59	4.73	56.13
6/24/2009	8:00	22.33	7.7	0.591	4.86	57.44
6/24/2009	9:00	22.34	7.71	0.592	5.14	60.76
6/24/2009	10:00	22.61	7.74	0.593	5.57	66.19
6/24/2009	11:00	23.18	7.79	0.594	6.28	75.44
6/24/2009	12:00	24.12	7.84	0.594	7.17	87.67
6/24/2009	13:00	25.42	7.9	0.593	8.2	102.72
6/24/2009	14:00	26.49	7.94	0.591	9.18	117.27
6/24/2009	15:00	27.33	7.98	0.589	9.75	126.45
6/24/2009	16:00	27.74	7.99	0.589	9.88	129.08
6/24/2009	17:00	27.69	7.99	0.588	9.9	129.23
6/24/2009	18:00	27.85	7.99	0.59	9.61	125.80
6/24/2009	19:00	27.58	7.98	0.591	9.08	118.29
6/24/2009	20:00	27.13	7.96	0.592	8.37	108.16
6/24/2009	21:00	26.67	7.93	0.593	7.51	96.25
6/24/2009	22:00	26.27	7.88	0.593	6.69	85.12
6/24/2009	23:00	25.98	7.85	0.593	6.15	77.84
6/25/2009	0:00	25.73	7.82	0.593	5.72	72.06
6/25/2009	1:00	25.49	7.79	0.592	5.29	66.35
6/25/2009	2:00	25.23	7.77	0.59	5	62.42
6/25/2009	3:00	24.99	7.74	0.589	4.84	60.15
6/25/2009	4:00	24.75	7.73	0.588	4.67	57.78
6/25/2009	5:00	24.51	7.71	0.587	4.52	55.67
6/25/2009	6:00	24.25	7.7	0.586	4.43	54.30
6/25/2009	7:00	23.98	7.68	0.586	4.42	53.90
6/25/2009	8:00	23.82	7.68	0.586	4.46	54.23
6/25/2009	9:00	23.86	7.69	0.586	4.75	57.80
6/25/2009	10:00	24.07	7.71	0.587	5.11	62.43
6/25/2009	11:00	24.66	7.76	0.586	5.88	72.63

Appendix Table A- 7. Continued.

BLUE JACKET CREEK @ TROY ST (TR 216)

River Mile: 6.31
Storet: H01P11
Flow Regime: Normal Declining
Local Rainfall: None
Local Substrate: Gravel
Local Depth (ft) 0.5
Local Velocity (ft/s): 0.25-0.75

Date	Time	Temp C	pH (SU)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Dissolved Oxygen (% sat)
6/23/2009	13:00	19.62	7.96	0.786	9.51	106.57
6/23/2009	14:00	20.62	7.99	0.783	9.31	106.43
6/23/2009	15:00	21.25	7.99	0.775	9.27	107.29
6/23/2009	16:00	21.43	7.98	0.774	9.00	104.53
6/23/2009	17:00	21.26	7.96	0.773	8.50	98.40
6/23/2009	18:00	21.01	7.94	0.774	8.30	95.61
6/23/2009	19:00	20.62	7.92	0.776	8.08	92.37
6/23/2009	20:00	19.96	7.90	0.780	7.95	89.70
6/23/2009	21:00	19.18	7.88	0.779	7.87	87.42
6/23/2009	22:00	18.51	7.87	0.784	7.87	86.24
6/23/2009	23:00	17.93	7.86	0.787	7.96	86.19
6/24/2009	0:00	17.39	7.86	0.789	8.07	86.41
6/24/2009	1:00	16.89	7.85	0.790	8.16	86.47
6/24/2009	2:00	16.45	7.86	0.791	8.27	86.83
6/24/2009	3:00	16.10	7.86	0.790	8.35	87.02
6/24/2009	4:00	15.81	7.86	0.789	8.41	87.11
6/24/2009	5:00	15.56	7.86	0.789	8.48	87.37
6/24/2009	6:00	15.37	7.86	0.789	8.51	87.32
6/24/2009	7:00	15.24	7.87	0.788	8.61	88.10
6/24/2009	8:00	15.25	7.87	0.788	8.71	89.15
6/24/2009	9:00	15.53	7.90	0.787	9.01	92.77
6/24/2009	10:00	15.96	7.93	0.786	9.10	94.56
6/24/2009	11:00	16.88	7.97	0.784	9.36	99.17
6/24/2009	12:00	18.21	8.01	0.781	9.62	104.77
6/24/2009	13:00	19.73	8.03	0.777	9.72	109.16
6/24/2009	14:00	20.77	8.03	0.773	9.57	109.72
6/24/2009	15:00	21.25	8.01	0.770	9.28	107.40
6/24/2009	16:00	21.64	8.01	0.767	9.25	107.87
6/24/2009	17:00	21.43	7.98	0.766	8.66	100.58
6/24/2009	18:00	21.31	7.95	0.769	8.42	97.57
6/24/2009	19:00	20.93	7.93	0.770	8.17	93.97
6/24/2009	20:00	20.34	7.90	0.773	7.89	89.69
6/24/2009	21:00	19.62	7.87	0.777	7.80	87.41
6/24/2009	22:00	18.97	7.86	0.780	7.81	86.38
6/24/2009	23:00	18.44	7.85	0.783	7.84	85.78
6/25/2009	0:00	17.93	7.85	0.785	7.92	85.76
6/25/2009	1:00	17.48	7.84	0.787	8.04	86.25
6/25/2009	2:00	17.11	7.85	0.787	8.11	86.34
6/25/2009	3:00	16.81	7.85	0.786	8.15	86.22
6/25/2009	4:00	16.53	7.85	0.786	8.20	86.24
6/25/2009	5:00	16.30	7.85	0.786	8.25	86.35
6/25/2009	6:00	16.09	7.86	0.785	8.32	86.69
6/25/2009	7:00	15.92	7.86	0.784	8.40	87.21
6/25/2009	8:00	15.89	7.87	0.784	8.54	88.61
6/25/2009	9:00	16.15	7.90	0.783	8.84	92.23
6/25/2009	10:00	16.66	7.94	0.782	8.96	94.49
6/25/2009	11:00	17.53	7.98	0.780	9.24	99.23
6/25/2009	12:00	18.87	8.01	0.776	9.49	104.75
6/25/2009	13:00	20.27	8.03	0.772	9.46	107.39

Appendix Table A- 7. Continued.

BLUE JACKET CREEK @ CR 11

River Mile: 5.39
Storet: H01P12
Flow Regime: Normal Declining
Local Rainfall: None

Local Substrate: Gravel
Local Depth (ft) 1.6
Local Velocity (ft/s): 0.75-1.25

Date	Time	Temp C	pH (SU)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Dissolved Oxygen (% sat)
6/23/2009	13:00	22.78	8.39	1.670	11.58	138.05
6/23/2009	14:00	23.75	8.45	1.670	12.20	148.14
6/23/2009	15:00	23.92	8.42	1.670	11.19	136.32
6/23/2009	16:00	24.14	8.43	1.680	11.29	138.10
6/23/2009	17:00	23.88	8.37	1.690	10.25	124.77
6/23/2009	18:00	23.27	8.27	1.690	8.68	104.45
6/23/2009	19:00	22.50	8.15	1.690	7.25	85.97
6/23/2009	20:00	21.87	8.07	1.700	6.36	74.50
6/23/2009	21:00	21.43	8.01	1.710	5.83	67.71
6/23/2009	22:00	21.05	7.97	1.720	5.50	63.41
6/23/2009	23:00	20.73	7.96	1.720	5.49	62.89
6/24/2009	0:00	20.46	7.95	1.720	5.52	62.90
6/24/2009	1:00	20.23	7.95	1.720	5.55	62.96
6/24/2009	2:00	20.02	7.95	1.700	5.54	62.58
6/24/2009	3:00	19.81	7.95	1.680	5.52	62.09
6/24/2009	4:00	19.59	7.96	1.660	5.55	62.16
6/24/2009	5:00	19.39	7.96	1.640	5.59	62.35
6/24/2009	6:00	19.22	7.97	1.630	5.72	63.59
6/24/2009	7:00	19.13	7.99	1.640	6.11	67.80
6/24/2009	8:00	19.27	8.05	1.630	6.98	77.67
6/24/2009	9:00	19.65	8.13	1.650	8.17	91.61
6/24/2009	10:00	20.31	8.20	1.690	9.15	103.96
6/24/2009	11:00	21.12	8.28	1.710	10.19	117.64
6/24/2009	12:00	22.11	8.35	1.710	10.90	128.28
6/24/2009	13:00	23.24	8.43	1.730	12.00	144.32
6/24/2009	14:00	24.12	8.48	1.740	12.41	151.75
6/24/2009	15:00	24.14	8.43	1.760	11.13	136.15
6/24/2009	16:00	24.43	8.45	1.770	11.47	141.07
6/24/2009	17:00	23.71	8.34	1.790	9.70	117.70
6/24/2009	18:00	23.35	8.27	1.800	8.98	108.22
6/24/2009	19:00	22.86	8.17	1.820	7.58	90.50
6/24/2009	20:00	22.30	8.07	1.820	6.33	74.77
6/24/2009	21:00	21.84	8.00	1.840	5.77	67.55
6/24/2009	22:00	21.48	7.96	1.840	5.39	62.66
6/24/2009	23:00	21.23	7.95	1.840	5.34	61.78
6/25/2009	0:00	21.08	7.95	1.840	5.39	62.18
6/25/2009	1:00	20.97	7.95	1.830	5.35	61.58
6/25/2009	2:00	20.85	7.95	1.820	5.32	61.09
6/25/2009	3:00	20.75	7.96	1.800	5.43	62.23
6/25/2009	4:00	20.58	7.95	1.790	5.32	60.77
6/25/2009	5:00	20.39	7.96	1.760	5.35	60.88
6/25/2009	6:00	20.22	7.97	1.730	5.45	61.81
6/25/2009	7:00	20.10	7.99	1.730	5.84	66.07
6/25/2009	8:00	20.17	8.04	1.720	6.72	76.14
6/25/2009	9:00	20.53	8.13	1.730	7.93	90.49
6/25/2009	10:00	21.12	8.20	1.760	8.94	103.21
6/25/2009	11:00	21.99	8.27	1.780	9.94	116.71
6/25/2009	12:00	23.03	8.36	1.790	10.95	131.16
6/25/2009	13:00	24.11	8.42	1.800	11.55	141.20
6/25/2009	14:00	24.66	8.41	1.820	10.89	134.51
6/25/2009	15:00	25.43	8.46	1.820	11.81	147.97

Appendix Table A- 7. Continued.

LORAMIE CREEK DST LORAMIE LAKE DAM

River Mile: 22.1
Storet: H02S06
Flow Regime: Low Stable
Local Rainfall: None

Local Substrate: Gravel/Sand
Local Depth (ft) 0.8
Local Velocity (ft/s): 0-0.1

Date	Time	Temp C	pH (SU)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Dissolved Oxygen (% sat)
7/7/2009	12:00	24.46	7.88	0.533	8.66	106.57
7/7/2009	13:00	25.28	8.14	0.537	11.34	141.69
7/7/2009	14:00	25.81	8.25	0.537	13.78	173.86
7/7/2009	15:00	26.39	8.21	0.537	13.79	175.84
7/7/2009	16:00	26.72	8.17	0.535	11.98	153.67
7/7/2009	17:00	26.11	8.03	0.537	10.31	130.80
7/7/2009	18:00	25.67	7.99	0.538	8.19	103.07
7/7/2009	19:00	25.13	7.87	0.538	5.71	71.15
7/7/2009	20:00	24.70	7.77	0.541	5.87	72.56
7/7/2009	21:00	24.26	7.65	0.541	3.36	41.19
7/7/2009	22:00	23.95	7.53	0.544	3.22	39.25
7/7/2009	23:00	23.61	7.47	0.545	1.79	21.68
7/8/2009	0:00	22.91	7.40	0.543	0.83	9.92
7/8/2009	1:00	22.64	7.40	0.544	0.50	5.94
7/8/2009	2:00	22.44	7.43	0.545	0.90	10.66
7/8/2009	3:00	22.00	7.40	0.546	0.37	4.35
7/8/2009	4:00	21.83	7.39	0.546	0.26	3.04
7/8/2009	5:00	21.56	7.39	0.546	0.25	2.91
7/8/2009	6:00	21.22	7.38	0.546	0.61	7.06
7/8/2009	7:00	20.93	7.38	0.547	0.49	5.64
7/8/2009	8:00	20.87	7.37	0.547	0.81	9.31
7/8/2009	9:00	20.98	7.43	0.546	1.45	16.69
7/8/2009	10:00	21.82	7.51	0.547	3.62	42.36
7/8/2009	11:00	23.21	7.57	0.547	4.51	54.21
7/8/2009	12:00	23.63	7.59	0.548	3.84	46.52
7/8/2009	13:00	24.55	7.78	0.548	5.49	67.67
7/8/2009	14:00	25.19	7.87	0.547	5.90	73.60
7/8/2009	15:00	25.78	7.77	0.549	4.51	56.87
7/8/2009	16:00	25.82	7.61	0.550	3.33	42.02
7/8/2009	17:00	25.82	7.65	0.550	2.44	30.79
7/8/2009	18:00	25.38	7.86	0.550	3.60	45.06
7/8/2009	19:00	25.18	7.78	0.549	3.17	39.53
7/8/2009	20:00	24.96	7.63	0.551	1.40	17.39
7/8/2009	21:00	24.59	7.53	0.551	1.22	15.05
7/8/2009	22:00	24.21	7.50	0.553	0.67	8.21
7/8/2009	23:00	23.76	7.47	0.551	0.49	5.95
7/9/2009	0:00	23.31	7.45	0.553	0.67	8.07
7/9/2009	1:00	22.95	7.44	0.552	0.33	3.95
7/9/2009	2:00	22.59	7.40	0.553	0.16	1.90
7/9/2009	3:00	22.26	7.40	0.554	0.15	1.77
7/9/2009	4:00	21.92	7.40	0.555	0.14	1.64
7/9/2009	5:00	21.71	7.40	0.555	0.20	2.34
7/9/2009	6:00	21.40	7.41	0.555	0.18	2.09
7/9/2009	7:00	21.15	7.41	0.556	0.08	0.92
7/9/2009	8:00	21.00	7.40	0.554	0.12	1.38
7/9/2009	9:00	21.02	7.40	0.554	0.28	3.23
7/9/2009	10:00	21.10	7.43	0.555	0.36	4.15
7/9/2009	11:00	21.33	7.44	0.554	0.50	5.80

Appendix Table A- 7. Continued.

LORAMIE CREEK UPSTREAM MIAMI ERIE CANAL (DST WWTP)

River Mile: 20.8
Storet:
Flow Regime: Low Stable
Local Rainfall: None

Local Substrate: Gravel/Sand
Local Depth (ft) 2
Local Velocity (ft/s): 0-0.1

Date	Time	Temp C	pH (SU)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Dissolved Oxygen (% sat)
7/7/2009	13:00	23.35	8.07	2.180	9.55	115.09
7/7/2009	14:00	25.00	8.34	2.220	14.22	176.75
7/7/2009	15:00	25.73	8.36	2.220	15.95	200.94
7/7/2009	16:00	26.40	8.40	2.190	16.36	208.65
7/7/2009	17:00	26.62	8.44	2.200	16.30	208.71
7/7/2009	18:00	26.59	8.45	2.220	15.82	202.46
7/7/2009	19:00	26.42	8.46	2.240	15.14	193.16
7/7/2009	20:00	25.61	8.44	2.270	14.01	176.12
7/7/2009	21:00	24.98	8.38	2.300	12.11	150.47
7/7/2009	22:00	24.31	8.30	2.340	9.74	119.52
7/7/2009	23:00	24.13	8.26	2.350	8.97	109.70
7/8/2009	0:00	24.08	8.25	2.340	8.49	103.74
7/8/2009	1:00	23.71	8.20	2.310	7.56	91.73
7/8/2009	2:00	23.17	8.14	2.290	6.82	81.91
7/8/2009	3:00	22.72	8.08	2.280	6.13	72.99
7/8/2009	4:00	22.33	8.03	2.280	5.58	65.95
7/8/2009	5:00	21.99	7.99	2.270	5.17	60.70
7/8/2009	6:00	21.65	7.95	2.250	4.76	55.52
7/8/2009	7:00	21.12	7.93	2.220	4.45	51.37
7/8/2009	8:00	20.84	7.92	2.190	4.39	50.40
7/8/2009	9:00	20.67	7.93	2.170	4.76	54.47
7/8/2009	10:00	20.78	7.94	2.150	5.58	63.99
7/8/2009	11:00	21.17	7.96	2.140	6.14	70.95
7/8/2009	12:00	21.49	8.01	2.100	7.20	83.72
7/8/2009	13:00	22.24	8.05	2.110	8.71	102.76
7/8/2009	14:00	23.06	8.16	2.060	11.19	134.11
7/8/2009	15:00	23.95	8.25	2.080	13.23	161.26
7/8/2009	16:00	24.88	8.32	2.060	13.69	169.79
7/8/2009	17:00	25.83	8.39	2.050	14.68	185.28
7/8/2009	18:00	25.93	8.40	2.040	14.74	186.38
7/8/2009	19:00	26.00	8.51	2.070	14.79	187.25
7/8/2009	20:00	25.49	8.53	2.090	13.65	171.21
7/8/2009	21:00	25.03	8.49	2.110	12.11	150.61
7/8/2009	22:00	24.63	8.44	2.130	10.51	129.74
7/8/2009	23:00	24.27	8.36	2.140	8.85	108.52
7/9/2009	0:00	23.98	8.30	2.150	7.99	97.44
7/9/2009	1:00	23.69	8.23	2.150	6.83	82.84

Appendix Table A- 7. Continued.

LORAMIE CREEK @ SR 705

River Mile: 19.83
Storet: 300712
Flow Regime: Low Stable
Local Rainfall: None

Local Substrate: Gravel/Silt
Local Depth (ft) 0.75
Local Velocity (ft/s): 0.1-0.25

Date	Time	Temp C	pH (SU)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Dissolved Oxygen (% sat)
7/7/2009	18:00	28.16	8.86	1.870	22.20	292.21
7/7/2009	19:00	27.55	8.88	1.900	21.71	282.68
7/7/2009	20:00	26.96	8.88	1.930	19.85	255.73
7/7/2009	21:00	26.70	8.89	1.940	18.72	240.05
7/7/2009	22:00	26.18	8.87	1.980	17.50	222.29
7/7/2009	23:00	25.31	8.80	1.990	14.92	186.52
7/8/2009	0:00	24.45	8.72	2.010	12.22	150.35
7/8/2009	1:00	23.57	8.61	2.050	9.51	115.09
7/8/2009	2:00	22.84	8.51	2.090	7.25	86.53
7/8/2009	3:00	22.26	8.41	2.140	5.70	67.28
7/8/2009	4:00	21.77	8.33	2.240	4.62	54.02
7/8/2009	5:00	21.30	8.26	2.410	3.85	44.60
7/8/2009	6:00	20.80	8.20	2.580	3.34	38.32
7/8/2009	7:00	20.44	8.16	2.670	3.24	36.91
7/8/2009	8:00	20.32	8.15	2.690	3.74	42.50
7/8/2009	9:00	20.44	8.15	2.610	4.60	52.40
7/8/2009	10:00	20.75	8.18	2.520	6.08	69.68
7/8/2009	11:00	21.24	8.22	2.440	8.27	95.70
7/8/2009	12:00	21.23	8.27	2.400	10.37	119.97
7/8/2009	13:00	22.36	8.37	2.430	14.85	175.61
7/8/2009	14:00	23.60	8.47	2.460	18.91	228.97
7/8/2009	15:00	25.14	8.57	2.490	22.01	274.29
7/8/2009	16:00	26.49	8.63	2.510	23.28	297.38
7/8/2009	17:00	26.51	8.69	2.580	23.57	301.20
7/8/2009	18:00	26.78	8.73	2.620	23.60	303.06
7/8/2009	19:00	26.15	8.78	2.670	22.81	289.58
7/8/2009	20:00	25.91	8.82	2.620	21.84	276.06
7/8/2009	21:00	25.66	8.87	2.510	20.33	255.80
7/8/2009	22:00	25.58	8.90	2.480	18.99	238.59
7/8/2009	23:00	25.12	8.89	2.500	17.24	214.77
7/9/2009	0:00	24.47	8.82	2.510	14.30	176.01
7/9/2009	1:00	23.80	8.73	2.460	11.47	139.41
7/9/2009	2:00	23.21	8.64	2.320	8.94	107.45
7/9/2009	3:00	22.64	8.54	2.220	6.52	77.52
7/9/2009	4:00	22.09	8.45	2.190	5.38	63.29
7/9/2009	5:00	21.61	8.36	2.180	4.19	48.84
7/9/2009	6:00	21.27	8.28	2.130	3.41	39.48
7/9/2009	7:00	21.01	8.22	2.130	3.01	34.67
7/9/2009	8:00	20.81	8.19	2.120	3.16	36.26
7/9/2009	9:00	20.74	8.17	2.120	3.62	41.48
7/9/2009	10:00	20.75	8.17	2.110	4.34	49.74
7/9/2009	11:00	20.93	8.20	2.090	5.99	68.89
7/9/2009	12:00	21.55	8.27	2.090	8.75	101.86
7/9/2009	13:00	23.03	8.37	2.090	12.68	151.89

Appendix Table A- 7. Continued.

LORAMIE CREEK UPSTREAM UNNAMED TRIB (SCHLATER RD)

River Mile: 19.1
Storet:
Flow Regime: Normal Stable
Local Rainfall: None

Local Substrate: Gravel/Silt
Local Depth (ft) 1.2
Local Velocity (ft/s): 0.1-0.25

Date	Time	Temp C	pH (SU)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Dissolved Oxygen (% sat)
7/7/2009	16:00	28.99	8.82	1.510	21.29	284.37
7/7/2009	17:00	29.47	8.91	1.450	23.22	312.76
7/7/2009	18:00	29.72	8.98	1.399	23.55	318.59
7/7/2009	19:00	29.00	8.98	1.341	22.93	306.33
7/7/2009	20:00	28.04	8.96	1.309	21.44	281.61
7/7/2009	21:00	27.39	8.96	1.273	20.04	260.18
7/7/2009	22:00	26.64	8.93	1.265	18.38	235.43
7/7/2009	23:00	26.01	8.92	1.258	17.02	215.53
7/8/2009	0:00	25.36	8.89	1.252	15.48	193.70
7/8/2009	1:00	24.61	8.84	1.280	13.60	167.83
7/8/2009	2:00	23.82	8.79	1.339	11.50	139.83
7/8/2009	3:00	23.24	8.74	1.378	10.00	120.26
7/8/2009	4:00	22.79	8.68	1.424	8.88	105.88
7/8/2009	5:00	22.31	8.68	1.480	8.05	95.11
7/8/2009	6:00	21.82	8.60	1.500	7.21	84.38
7/8/2009	7:00	21.34	8.56	1.520	6.66	77.22
7/8/2009	8:00	21.10	8.52	1.530	6.61	76.28
7/8/2009	9:00	21.10	8.51	1.550	7.26	83.78
7/8/2009	10:00	21.65	8.50	1.570	8.64	100.78
7/8/2009	11:00	22.09	8.54	1.590	10.66	125.41
7/8/2009	12:00	23.05	8.67	1.620	13.73	164.53
7/8/2009	13:00	23.99	8.67	1.680	16.93	206.51
7/8/2009	14:00	25.41	8.73	1.700	20.64	258.51
7/8/2009	15:00	26.49	8.78	1.750	22.93	292.91
7/8/2009	16:00	27.68	8.84	1.760	24.59	320.92
7/8/2009	17:00	27.91	8.88	1.720	24.54	321.58
7/8/2009	18:00	28.35	8.91	1.710	25.10	331.50
7/8/2009	19:00	28.02	8.92	1.680	24.51	321.82
7/8/2009	20:00	27.61	8.95	1.640	24.15	314.78
7/8/2009	21:00	27.12	8.96	1.620	22.89	295.75
7/8/2009	22:00	26.70	8.95	1.610	21.13	270.95
7/8/2009	23:00	26.17	8.94	1.580	19.17	243.46
7/9/2009	0:00	25.63	8.91	1.540	17.13	215.41
7/9/2009	1:00	25.01	8.88	1.540	15.19	188.85
7/9/2009	2:00	24.46	8.82	1.580	13.29	163.54
7/9/2009	3:00	23.84	8.74	1.670	11.07	134.65
7/9/2009	4:00	23.22	8.69	1.750	9.39	112.88
7/9/2009	5:00	22.77	8.68	1.820	8.34	99.40
7/9/2009	6:00	22.34	8.63	1.840	7.40	87.48
7/9/2009	7:00	21.99	8.60	1.850	6.85	80.43
7/9/2009	8:00	21.78	8.59	1.840	6.51	76.13
7/9/2009	9:00	21.72	8.57	1.810	6.60	77.09
7/9/2009	10:00	21.76	8.55	1.770	7.02	82.06
7/9/2009	11:00	21.96	8.56	1.730	8.21	96.34
7/9/2009	12:00	22.75	8.60	1.700	10.57	125.94
7/9/2009	13:00	24.73	8.71	1.670	14.39	177.97
7/9/2009	14:00	26.31	8.79	1.660	17.94	228.42

Appendix Table A- 7. Continued.

LORAMIE CREEK @ CARDO- ROMAN RD

River Mile: 16.51
Storet: H02S24
Flow Regime: Normal Stable
Local Rainfall: None
Local Substrate: Gravel
Local Depth (ft) 2.3
Local Velocity (ft/s): 0.1-0.25

Date	Time	Temp C	pH (SU)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Dissolved Oxygen (% sat)
7/7/2009	14:00	23.53	9.06	1.077	25.15	304.13
7/7/2009	15:00	23.76	9.10	1.049	27.02	328.16
7/7/2009	16:00	24.05	9.11	1.046	27.47	335.46
7/7/2009	17:00	24.20	9.11	1.057	28.09	343.99
7/7/2009	18:00	24.36	9.11	1.039	28.19	346.25
7/7/2009	19:00	24.25	9.07	1.049	28.08	344.19
7/7/2009	20:00	24.38	9.07	1.060	28.33	348.10
7/7/2009	21:00	24.27	9.01	1.052	26.65	326.79
7/7/2009	22:00	24.35	8.98	1.050	26.43	324.57
7/7/2009	23:00	24.36	8.92	1.056	25.07	307.93
7/8/2009	0:00	24.44	8.88	1.045	24.79	304.95
7/8/2009	1:00	24.44	8.76	1.042	22.98	282.68
7/8/2009	2:00	24.30	8.68	0.991	23.39	286.97
7/8/2009	3:00	23.99	8.62	0.977	22.87	278.97
7/8/2009	4:00	23.74	8.54	0.977	22.26	270.25
7/8/2009	5:00	23.47	8.48	0.961	21.30	257.28
7/8/2009	6:00	23.06	8.48	0.958	20.79	249.17
7/8/2009	7:00	22.77	8.39	0.972	18.90	225.27
7/8/2009	8:00	22.48	8.41	0.972	19.07	226.04
7/8/2009	9:00	22.42	8.46	0.972	18.86	223.29
7/8/2009	10:00	22.52	8.48	0.974	17.98	213.28
7/8/2009	11:00	22.56	8.43	0.976	17.75	210.71
7/8/2009	12:00	22.71	8.48	0.975	18.78	223.58
7/8/2009	13:00	22.91	8.54	0.973	19.86	237.35
7/8/2009	14:00	23.20	8.67	0.972	21.78	261.73
7/8/2009	15:00	23.58	8.86	0.964	25.04	303.09
7/8/2009	16:00	23.91	8.94	0.954	26.28	320.08
7/8/2009	17:00	24.08	8.92	0.948	26.36	322.08
7/8/2009	18:00	24.09	8.92	0.965	25.52	311.88
7/8/2009	19:00	24.14	8.89	0.953	25.40	310.70
7/8/2009	20:00	24.22	8.86	0.985	24.38	298.67
7/8/2009	21:00	24.36	8.83	0.987	23.93	293.93
7/8/2009	22:00	24.48	8.76	0.991	23.24	286.09
7/8/2009	23:00	24.57	8.72	0.988	22.63	279.05
7/9/2009	0:00	24.66	8.78	1.004	22.85	282.24
7/9/2009	1:00	24.59	8.75	0.999	22.57	278.42
7/9/2009	2:00	24.35	8.68	1.002	21.54	264.52
7/9/2009	3:00	24.14	8.59	1.003	19.72	241.22
7/9/2009	4:00	23.92	8.55	1.004	20.09	244.73
7/9/2009	5:00	23.66	8.42	1.006	19.33	234.33
7/9/2009	6:00	23.38	8.42	1.013	18.77	226.33
7/9/2009	7:00	23.14	8.38	1.021	18.34	220.14
7/9/2009	8:00	22.95	8.36	1.030	17.53	209.66
7/9/2009	9:00	22.78	8.38	1.034	17.67	210.65
7/9/2009	10:00	22.72	8.35	1.028	16.94	201.72
7/9/2009	11:00	22.75	8.30	1.033	17.02	202.78
7/9/2009	12:00	22.95	8.36	1.042	17.27	206.55
7/9/2009	13:00	23.27	8.50	1.069	20.16	242.59
7/9/2009	14:00	23.51	8.55	1.082	21.34	257.96

Appendix Table A- 7. Continued.

LORAMIE CREEK @ SR 66 (NEWPORT)

River Mile: 14.8
Storet: 201075
Flow Regime: Normal Stable
Local Rainfall: None
Local Substrate: Gravel
Local Depth (ft) 1
Local Velocity (ft/s): 0.25-0.75

Date	Time	Temp C	pH (SU)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Dissolved Oxygen (% sat)
7/7/2009	14:00	27.10	8.96	1.120	16.51	213.24
7/7/2009	15:00	27.66	9.00	1.129	18.11	236.27
7/7/2009	16:00	28.16	9.04	1.121	19.05	250.75
7/7/2009	17:00	28.25	9.06	1.104	19.12	252.07
7/7/2009	18:00	27.96	9.06	1.104	18.50	242.65
7/7/2009	19:00	27.64	9.04	1.104	17.73	231.23
7/7/2009	20:00	27.41	9.03	1.091	16.72	217.16
7/7/2009	21:00	27.32	9.01	1.080	16.03	207.86
7/7/2009	22:00	27.02	8.94	1.083	14.91	192.30
7/7/2009	23:00	26.60	8.88	1.073	14.12	180.73
7/8/2009	0:00	26.18	8.83	1.077	12.98	164.88
7/8/2009	1:00	25.65	8.80	1.095	11.89	149.58
7/8/2009	2:00	25.17	8.77	1.095	10.97	136.79
7/8/2009	3:00	24.79	8.72	1.097	10.19	126.17
7/8/2009	4:00	24.45	8.67	1.095	9.30	114.42
7/8/2009	5:00	24.10	8.65	1.099	8.40	102.67
7/8/2009	6:00	23.61	8.60	1.101	7.65	92.65
7/8/2009	7:00	23.10	8.58	1.102	7.15	85.76
7/8/2009	8:00	22.87	8.61	1.103	7.61	90.88
7/8/2009	9:00	22.96	8.65	1.102	8.96	107.18
7/8/2009	10:00	23.17	8.71	1.096	10.47	125.75
7/8/2009	11:00	23.99	8.79	1.092	12.66	154.43
7/8/2009	12:00	24.27	8.84	1.089	13.89	170.32
7/8/2009	13:00	25.27	8.89	1.052	15.56	194.38
7/8/2009	14:00	25.96	8.93	1.070	16.76	212.04
7/8/2009	15:00	27.12	9.00	1.080	17.83	230.37
7/8/2009	16:00	27.67	9.00	1.069	18.76	244.79
7/8/2009	17:00	28.02	9.06	1.071	19.34	253.94
7/8/2009	18:00	28.02	9.03	1.074	18.64	244.74
7/8/2009	19:00	27.68	9.04	1.076	17.25	225.13
7/8/2009	20:00	27.60	9.00	1.078	16.31	212.55
7/8/2009	21:00	27.36	9.00	1.063	15.24	197.76
7/8/2009	22:00	26.94	8.94	1.068	13.75	177.08
7/8/2009	23:00	26.34	8.90	1.056	12.79	162.94
7/9/2009	0:00	25.76	8.83	1.054	11.59	146.10
7/9/2009	1:00	25.33	8.77	1.071	10.40	130.06
7/9/2009	2:00	24.97	8.70	1.070	9.54	118.52
7/9/2009	3:00	24.64	8.69	1.073	8.54	105.44
7/9/2009	4:00	24.30	8.64	1.077	7.72	94.72
7/9/2009	5:00	23.99	8.52	1.071	7.08	86.36
7/9/2009	6:00	23.67	8.49	1.085	6.54	79.30
7/9/2009	7:00	23.42	8.41	1.085	5.77	69.63
7/9/2009	8:00	23.20	8.46	1.082	5.91	71.02
7/9/2009	9:00	23.16	8.52	1.078	6.72	80.69
7/9/2009	10:00	23.19	8.57	1.073	7.47	89.75
7/9/2009	11:00	23.35	8.62	1.067	8.54	102.92
7/9/2009	12:00	24.12	8.75	1.059	10.96	134.02
7/9/2009	13:00	25.82	8.82	1.054	13.13	165.69
7/9/2009	14:00	26.65	8.82	1.032	13.61	174.36
7/9/2009	15:00	26.72	8.81	1.034	13.69	175.61

Appendix Table A- 7. Continued.

LORAMIE CREEK @ LORAMIE WASHINGTON RD

River Mile: 7.67
Storet: H02S23
Flow Regime: Normal Stable
Local Rainfall: None

Local Substrate: Gravel
Local Depth (ft) 0.8
Local Velocity (ft/s): 0.25-0.75

Date	Time	Temp C	pH (SU)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Dissolved Oxygen (% sat)
7/7/2009	12:00	23.18	8.41	0.808	12.28	147.51
7/7/2009	13:00	25.04	8.60	0.806	15.47	192.43
7/7/2009	14:00	26.86	8.73	0.802	18.15	233.41
7/7/2009	15:00	28.65	8.81	0.792	20.01	265.68
7/7/2009	16:00	29.39	8.86	0.791	20.51	275.87
7/7/2009	17:00	29.91	8.86	0.785	20.54	278.79
7/7/2009	18:00	30.01	8.89	0.780	20.56	279.54
7/7/2009	19:00	29.30	8.86	0.780	19.50	261.88
7/7/2009	20:00	27.95	8.79	0.787	16.96	222.41
7/7/2009	21:00	26.68	8.70	0.797	13.08	167.66
7/7/2009	22:00	25.71	8.57	0.808	9.96	125.43
7/7/2009	23:00	24.83	8.46	0.815	8.30	102.84
7/8/2009	0:00	24.10	8.36	0.820	7.15	87.40
7/8/2009	1:00	23.48	8.27	0.824	6.39	77.20
7/8/2009	2:00	22.84	8.18	0.827	5.90	70.42
7/8/2009	3:00	22.38	8.11	0.828	5.61	66.37
7/8/2009	4:00	22.05	8.04	0.829	5.41	63.60
7/8/2009	5:00	21.78	7.98	0.828	5.28	61.74
7/8/2009	6:00	21.48	7.93	0.826	5.21	60.57
7/8/2009	7:00	21.07	7.91	0.822	5.26	60.66
7/8/2009	8:00	20.90	7.94	0.820	5.97	68.62
7/8/2009	9:00	20.95	8.05	0.818	7.46	85.83
7/8/2009	10:00	21.37	8.21	0.816	9.51	110.32
7/8/2009	11:00	21.86	8.36	0.813	11.62	136.09
7/8/2009	12:00	22.67	8.52	0.806	14.01	166.67
7/8/2009	13:00	24.46	8.70	0.805	17.21	211.78
7/8/2009	14:00	25.93	8.78	0.797	18.80	237.72
7/8/2009	15:00	27.99	8.85	0.788	20.91	274.40
7/8/2009	16:00	29.45	8.86	0.781	21.02	283.03
7/8/2009	17:00	30.08	8.83	0.776	20.83	283.55
7/8/2009	18:00	29.81	8.80	0.773	19.67	266.51
7/8/2009	19:00	29.52	8.76	0.771	18.62	251.02
7/8/2009	20:00	28.21	8.70	0.779	15.47	203.81
7/8/2009	21:00	27.18	8.64	0.787	12.80	165.56
7/8/2009	22:00	26.06	8.56	0.796	9.97	126.37
7/8/2009	23:00	25.03	8.46	0.804	8.17	101.61
7/9/2009	0:00	24.33	8.37	0.809	7.13	87.53
7/9/2009	1:00	23.78	8.26	0.812	6.26	76.06
7/9/2009	2:00	23.31	8.16	0.815	5.68	68.40
7/9/2009	3:00	22.87	8.08	0.814	5.34	63.77
7/9/2009	4:00	22.49	8.01	0.819	5.17	61.29
7/9/2009	5:00	22.19	7.95	0.816	4.99	58.82
7/9/2009	6:00	21.92	7.91	0.819	4.88	57.22
7/9/2009	7:00	21.72	7.86	0.818	4.78	55.83
7/9/2009	8:00	21.57	7.88	0.821	5.16	60.09
7/9/2009	9:00	21.66	7.95	0.820	6.27	73.15
7/9/2009	10:00	21.92	8.06	0.818	7.72	90.52
7/9/2009	11:00	22.38	8.19	0.817	9.30	110.02

Appendix Table A- 7. Continued.

LORAMIE CREEK @ FESSLER BUXTON RD

River Mile: 1.87
Storet: 600320
Flow Regime: Normal Stable
Local Rainfall: None

Local Substrate: Gravel
Local Depth (ft) 1.2
Local Velocity (ft/s): 0.75-1.25

Date	Time	Temp C	pH (SU)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Dissolved Oxygen (% sat)
7/7/2009	11:00	20.14	8.07	0.620	8.41	95.23
7/7/2009	12:00	21.25	8.33	0.620	10.54	121.99
7/7/2009	13:00	22.20	8.47	0.620	12.23	144.18
7/7/2009	14:00	23.31	8.55	0.620	13.43	161.73
7/7/2009	15:00	23.79	8.62	0.620	14.39	174.87
7/7/2009	16:00	24.27	8.66	0.620	14.99	183.81
7/7/2009	17:00	24.19	8.68	0.620	15.34	187.82
7/7/2009	18:00	23.81	8.66	0.620	14.83	180.28
7/7/2009	19:00	23.39	8.64	0.630	14.12	170.30
7/7/2009	20:00	22.88	8.61	0.630	13.23	158.02
7/7/2009	21:00	22.42	8.57	0.630	12.43	147.16
7/7/2009	22:00	22.14	8.52	0.630		
7/7/2009	23:00	21.95	8.47	0.640		
7/8/2009	0:00	21.78	8.41	0.640		
7/8/2009	1:00	21.56	8.37	0.640		
7/8/2009	2:00	21.34	8.33	0.640		
7/8/2009	3:00	21.13	8.25	0.640		
7/8/2009	4:00	20.95	8.15	0.640		
7/8/2009	5:00	20.79	8.08	0.650		
7/8/2009	6:00	20.58	8.01	0.650		
7/8/2009	7:00	20.34	7.95	0.650		
7/8/2009	8:00	20.16	7.92	0.650		
7/8/2009	9:00	20.14	7.92	0.650		
7/8/2009	10:00	20.15	7.96	0.650		
7/8/2009	11:00	20.32	8.05	0.650		
7/8/2009	12:00	20.75	8.19	0.650		
7/8/2009	13:00	21.68	8.32	0.650		
7/8/2009	14:00	22.52	8.41	0.650		
7/8/2009	15:00	23.35	8.47	0.650		
7/8/2009	16:00	23.89	8.50	0.640		
7/8/2009	17:00	23.91	8.52	0.650		
7/8/2009	18:00	23.70	8.51	0.650		
7/8/2009	19:00	23.47	8.52	0.650		
7/8/2009	20:00	22.89	8.50	0.650		
7/8/2009	21:00	22.34	8.47	0.650		
7/8/2009	22:00	21.94	8.44	0.660		
7/8/2009	23:00	21.65	8.38	0.660		
7/9/2009	0:00	21.39	8.33	0.660		
7/9/2009	1:00	21.13	8.27	0.660		
7/9/2009	2:00	20.88	8.20	0.660		
7/9/2009	3:00	20.70	8.11	0.670		
7/9/2009	4:00	20.56	8.05	0.670		
7/9/2009	5:00	20.42	7.97	0.670		
7/9/2009	6:00	20.28	7.92	0.670		
7/9/2009	7:00	20.15	7.86	0.670		
7/9/2009	8:00	20.06	7.85	0.670		
7/9/2009	9:00	20.04	7.83	0.670		
7/9/2009	10:00	20.07	7.84	0.670		

Appendix Table A- 7. Continued.

MIAMI ERIE CANAL NEAR MOUTH

River Mile: 0.1
Storet: H02S14
Flow Regime: Low Stable
Local Rainfall: None

Local Substrate: Gravel/Sand
Local Depth (ft) 0.3
Local Velocity (ft/s): 0.25-0.75

Date	Time	Temp C	pH (SU)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Dissolved Oxygen (% sat)
7/7/2009	13:00	24.15	8.40	2.070	18.78	229.77
7/7/2009	14:00	25.17	8.48	2.050	19.91	248.26
7/7/2009	15:00	25.92	8.51	2.070	20.15	254.74
7/7/2009	16:00	26.23	8.53	2.080	19.68	250.21
7/7/2009	17:00	26.15	8.53	2.080	18.39	233.47
7/7/2009	18:00	25.77	8.51	2.090	16.63	209.66
7/7/2009	19:00	25.08	8.47	2.100	14.12	175.77
7/7/2009	20:00	24.28	8.41	2.100	11.73	143.86
7/7/2009	21:00	23.94	8.35	2.110	9.75	118.82
7/7/2009	22:00	23.98	8.30	2.100	8.52	103.91
7/7/2009	23:00	23.83	8.25	2.080	7.21	87.68
7/8/2009	0:00	23.41	8.17	2.070	5.79	69.86
7/8/2009	1:00	22.85	8.10	2.070	4.80	57.30
7/8/2009	2:00	22.36	8.04	2.070	4.15	49.08
7/8/2009	3:00	21.94	8.00	2.050	3.76	44.11
7/8/2009	4:00	21.54	7.97	2.020	3.61	42.02
7/8/2009	5:00	21.15	7.94	1.980	3.48	40.20
7/8/2009	6:00	20.58	7.92	1.940	3.38	38.61
7/8/2009	7:00	20.07	7.91	1.900	3.75	42.40
7/8/2009	8:00	19.89	7.94	1.880	4.87	54.87
7/8/2009	9:00	19.97	8.01	1.860	7.07	79.78
7/8/2009	10:00	20.11	8.09	1.860	9.15	103.54
7/8/2009	11:00	21.02	8.23	1.870	12.91	148.74
7/8/2009	12:00	21.50	8.32	1.880	14.86	172.83
7/8/2009	13:00	22.57	8.45	1.880	18.03	214.08
7/8/2009	14:00	23.95	8.55	1.890	19.72	240.36
7/8/2009	15:00	25.40	8.62	1.880	20.47	256.33
7/8/2009	16:00	26.30	8.65	1.860	20.35	259.06
7/8/2009	17:00	26.03	8.64	1.840	18.76	237.65
7/8/2009	18:00	25.34	8.60	1.860	15.95	199.51
7/8/2009	19:00	25.02	8.58	1.880	14.42	179.31
7/8/2009	20:00	24.70	8.51	1.890	12.10	149.57
7/8/2009	21:00	24.26	8.43	1.920	9.57	117.33
7/8/2009	22:00	24.11	8.36	1.930	7.86	96.09
7/8/2009	23:00	23.90	8.30	1.940	6.83	83.17
7/9/2009	0:00	23.58	8.21	1.950	5.74	69.48
7/9/2009	1:00	23.27	8.13	1.970	4.87	58.60
7/9/2009	2:00	22.91	8.06	2.020	4.25	50.79
7/9/2009	3:00	22.56	8.02	2.090	3.93	46.65
7/9/2009	4:00	22.15	8.00	2.160	3.77	44.40
7/9/2009	5:00	21.69	7.98	2.230	3.68	42.96
7/9/2009	6:00	21.26	7.96	2.280	3.61	41.79
7/9/2009	7:00	20.85	7.96	2.310	3.77	43.29
7/9/2009	8:00	20.57	7.98	2.320	4.72	53.90
7/9/2009	9:00	20.43	8.02	2.330	6.27	71.41
7/9/2009	10:00	20.43	8.06	2.330	7.82	89.06
7/9/2009	11:00	20.63	8.13	2.330	10.20	116.62
7/9/2009	12:00	21.41	8.23	2.320	14.00	162.54

Appendix Table A- 7. Continued.

MILE CREEK @ SR 705

River Mile: 0.5
Storet: H02P04
Flow Regime: Low Stable
Local Rainfall: None
Local Substrate: Gravel/Silt
Local Depth (ft) 2
Local Velocity (ft/s): 0.25-0.75

Date	Time	Temp C	pH (SU)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Dissolved Oxygen (% sat)
7/7/2009	14:00	27.37	8.86	0.758	21.85	283.58
7/7/2009	15:00	28.53	8.88	0.723	23.54	311.89
7/7/2009	16:00	29.59	8.94	0.706	24.11	325.43
7/7/2009	17:00	30.03	8.95	0.668	24.35	331.18
7/7/2009	18:00	30.14	9.02	0.691	24.76	337.40
7/7/2009	19:00	29.52	9.01	0.685	23.84	321.39
7/7/2009	20:00	28.62	9.03	0.677	24.02	318.75
7/7/2009	21:00	27.79	8.93	0.687	23.13	302.46
7/7/2009	22:00	27.02	8.85	0.711	22.82	294.32
7/7/2009	23:00	26.18	8.71	0.708	21.25	269.93
7/8/2009	0:00	25.33	8.57	0.715	19.75	246.99
7/8/2009	1:00	24.87	8.47	0.714	18.54	229.90
7/8/2009	2:00	24.16	8.36	0.718	16.91	206.93
7/8/2009	3:00	23.61	8.33	0.758	15.65	189.54
7/8/2009	4:00	23.26	8.25	0.764	14.74	177.34
7/8/2009	5:00	23.03	8.20	0.764	14.59	174.76
7/8/2009	6:00	22.55	8.05	0.772	13.48	159.99
7/8/2009	7:00	22.11	7.94	0.777	13.00	152.99
7/8/2009	8:00	21.87	8.00	0.779	13.63	159.67
7/8/2009	9:00	21.86	8.14	0.783	14.80	173.34
7/8/2009	10:00	22.30	8.32	0.784	15.99	188.87
7/8/2009	11:00	22.65	8.41	0.779	15.33	182.30
7/8/2009	12:00	23.34	8.53	0.772	17.98	216.64
7/8/2009	13:00	24.19	8.77	0.762	21.46	262.75
7/8/2009	14:00	25.11	8.91	0.750	23.55	293.32
7/8/2009	15:00	26.04	8.96	0.736	25.85	327.52
7/8/2009	16:00	26.74	8.80	0.758	26.38	338.51
7/8/2009	17:00	27.06	8.74	0.722	26.93	347.57
7/8/2009	18:00	27.96	8.69	0.734	24.65	323.31
7/8/2009	19:00	28.58	8.59	0.706	24.86	329.67
7/8/2009	20:00	28.24	8.51	0.745	22.21	292.76
7/8/2009	21:00	27.57	8.65	0.710	24.30	316.51
7/8/2009	22:00	26.81	8.70	0.740	23.44	301.17
7/8/2009	23:00	26.00	8.64	0.759	21.42	271.19
7/9/2009	0:00	25.43	8.33	0.764	20.09	251.71
7/9/2009	1:00	24.84	8.23	0.762	17.99	222.95
7/9/2009	2:00	24.34	8.24	0.757	17.04	209.22
7/9/2009	3:00	23.83	8.26	0.759	15.17	184.49
7/9/2009	4:00	23.38	8.16	0.761	14.55	175.45
7/9/2009	5:00	23.02	8.11	0.757	13.25	158.68
7/9/2009	6:00	22.66	8.05	0.754	11.21	133.33
7/9/2009	7:00	22.35	8.03	0.754	11.30	133.60
7/9/2009	8:00	22.10	7.98	0.761	9.55	112.37
7/9/2009	9:00	21.99	8.03	0.761	9.82	115.30
7/9/2009	10:00	21.98	8.23	0.788	11.39	133.71
7/9/2009	11:00	22.13	8.37	0.790	11.04	129.98
7/9/2009	12:00	22.85	8.55	0.785	13.02	155.42
7/9/2009	13:00	23.75	8.74	0.779	16.81	204.12

Appendix Table A- 7. Continued.

NINEMILE CREEK @ ROETH RD

River Mile: 0.23
Storet: H02K03
Flow Regime: Normal Stable
Local Rainfall: None
Local Substrate: Cobble
Local Depth (ft) 0.5
Local Velocity (ft/s): 0.75-1.25

Date	Time	Temp C	pH (SU)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Dissolved Oxygen (% sat)
7/7/2009	13:00	19.73	7.63	0.733	7.74	86.93
7/7/2009	14:00	20.34	7.65	0.732	8.16	92.76
7/7/2009	15:00	20.84	7.67	0.731	8.38	96.21
7/7/2009	16:00	21.35	7.68	0.729	8.65	100.31
7/7/2009	17:00	21.69	7.68	0.728	8.78	102.49
7/7/2009	18:00	22.03	7.69	0.727	8.87	104.23
7/7/2009	19:00	22.19	7.67	0.727	8.77	103.37
7/7/2009	20:00	22.13	7.65	0.727	8.54	100.54
7/7/2009	21:00	21.85	7.63	0.730	8.12	95.08
7/7/2009	22:00	21.46	7.61	0.731	7.75	90.07
7/7/2009	23:00	21.06	7.59	0.733	7.39	85.21
7/8/2009	0:00	20.69	7.58	0.735	7.05	80.70
7/8/2009	1:00	20.32	7.58	0.737	6.79	77.16
7/8/2009	2:00	19.97	7.56	0.739	6.57	74.14
7/8/2009	3:00	19.70	7.56	0.740	6.43	72.17
7/8/2009	4:00	19.44	7.57	0.741	6.34	70.79
7/8/2009	5:00	19.23	7.57	0.742	6.30	70.05
7/8/2009	6:00	18.98	7.56	0.743	6.26	69.25
7/8/2009	7:00	18.75	7.56	0.746	6.27	69.04
7/8/2009	8:00	18.63	7.57	0.745	6.40	70.30
7/8/2009	9:00	18.63	7.61	0.746	6.56	72.06
7/8/2009	10:00	18.65	7.61	0.746	6.85	75.27
7/8/2009	11:00	18.84	7.63	0.746	7.22	79.65
7/8/2009	12:00	19.00	7.67	0.746	7.60	84.11
7/8/2009	13:00	19.42	7.70	0.745	8.13	90.74
7/8/2009	14:00	19.85	7.72	0.744	8.62	97.04
7/8/2009	15:00	20.45	7.73	0.743	9.05	103.11
7/8/2009	16:00	20.95	7.74	0.741	9.30	107.00
7/8/2009	17:00	21.36	7.74	0.739	9.45	109.61
7/8/2009	18:00	21.69	7.73	0.738	9.44	110.20
7/8/2009	19:00	21.91	7.73	0.737	9.41	110.32
7/8/2009	20:00	21.88	7.70	0.738	9.07	106.27
7/8/2009	21:00	21.63	7.67	0.739	8.69	101.32
7/8/2009	22:00	21.28	7.65	0.741	8.27	95.77
7/8/2009	23:00	20.96	7.63	0.742	7.87	90.57
7/9/2009	0:00	20.64	7.62	0.744	7.48	85.54
7/9/2009	1:00	20.34	7.61	0.745	7.15	81.28
7/9/2009	2:00	20.07	7.61	0.746	6.89	77.91
7/9/2009	3:00	19.86	7.60	0.747	6.68	75.22
7/9/2009	4:00	19.65	7.58	0.748	6.53	73.22
7/9/2009	5:00	19.47	7.57	0.749	6.42	71.73
7/9/2009	6:00	19.30	7.57	0.750	6.36	70.81
7/9/2009	7:00	19.15	7.57	0.751	6.35	70.49
7/9/2009	8:00	19.05	7.59	0.751	6.40	70.90
7/9/2009	9:00	19.03	7.59	0.751	6.51	72.09
7/9/2009	10:00	19.08	7.61	0.752	6.78	75.16
7/9/2009	11:00	19.16	7.62	0.753	6.96	77.28
7/9/2009	12:00	19.53	7.63	0.834	7.49	83.78

APPENDIX B

Tables B-1 to B-9

Sediment Metals, Nutrients,

Volatile and Semivolatile Organic Compounds, and Pesticides,

From the Upper Great Miami River Basin, 2008

Table B-1. Concentrations (mg/kg unless otherwise noted) of metals and nutrients in sediment samples collected in the mainstem of Great Miami River (WAU 05080001) during 2008. Parameter concentrations were evaluated based on Ohio EPA sediment metal reference sites (2003), MacDonald (2000) Sediment Quality Guidelines (SQG) and Persuad (1993). Values digressing from guidelines are highlighted.

Parameter	Great Miami River Mainstem River Mile (Eastern Corn Belt Plains))						***Reference***	
	[1]158.2 (ECBP)	[3]157.22 (ECBP)		[6]143.2 (ECBP)	[8]142.5 (ECBP)	[10]129.99 (ECBP)	**Ohio SRV** ECBP	**MacDonald** TEC -PEC
Al-T [O]	7410	9820		5100	2190	5240	39000	*
As-T [OM]	8.40	9.36		6.39	3.76	5.71	18	9.79-33
Ba-T [O]	70.4	96.0		91.1	50.3	76.5	240	*
Ca-T [O]	80000	62100		42300	67200	56900	120000	*
Cd-T [OM]	0.362	0.330		0.416	0.161	0.302	0.9	0.99-4.98
Cr-T [OM]	10.5	11.7		9.26	4.22	8.59	40	43.4-111
Cu-T [OM]	21.8	16.0		317+■	6.13	10.5	34	31.6-149
Fe-T [O]	16800	19600		13200	7350	10600	33000	*
Hg-T [OM]	<0.049	0.032		0.047	<0.03	<0.043	0.12	0.18-1.06
K-T [O]	<1470	1750		<1100	<1210	<1180	11000	*
Mg-T [O]	26100	21100		13600	21400	14000	35000	*
Mn-T [O]	315	512		292	278	641	780	*
Na-T *	<3690	<2600		<2760	<3030	<2940	*	*
Ni-T [OM]	18.5	18.5		15.2	7.83	12.1	42	22.7-48.6
Pb-T [OM]	11.1	12.7		23.4	7.89	11.7	47	35.8-128
Se-T [O]	<1.47	<1.04		<1.10	<1.21	<1.18	2.3	*
Sr-T [O]	187	210		146	133	194	390	*
Zn-T [OM]	69.1	75.8		91.7	32.4	50.4	160	121-459
							Ohio	**Persuad**
NH_3-N [P]	140 L	64		1900 L	35	94	*	100
TOC(%) [P]	5.6%	4.3%		4.6%	4.7%	3.9%	*	10.0%
pH (SU) *	7.3	7.7		7.5	7.8	7.9	*	*
P-T [P]	430	553		121	949	423	*	2000
%FGM [O]	28%	35%		32%	5%	24%	30.0%	*

↘ Below the goal of 30% Fine Grain Material in sample
%FGM Percent Fine Grain Material in sediment sample (<60 micron or >30 seconds settling time)
NA Compound not analyzed. * Not evaluated in guideline
[O] Ohio EPA (2003) [M] MacDonald (2000) [P] Persuad (1993)
? Detection limit is greater than guideline

Ohio Sediment Reference Values (SRV) Guidelines (2003)
+ above reference value for ecoregion

Ontario Sediment Guidelines (Persuad 1993)
L > Open Water Disposal Guidelines; equivalent to the Lowest Effect Level (LEL)-applicable to NH_3-N only.
▲ > severe effect level (disturbance in benthic community can be expected)

MacDonald (2000) Sediment Quality Guidelines (SQG)
**>** TEC (Threshold effect concentration) and ≤ PEC (Probable effect concentration) Adverse effects frequently occur
■ > PEC (Probable effect concentration) -- Adverse effects usually or always occur

Table B-2. Concentrations (mg/kg unless otherwise noted) of metals and nutrients in sediment samples collected in South Fork Great Miami River, Liggit Ditch, North Fork Great Miami River, and Van Horn Creek, during 2008. Parameter concentrations were evaluated based on Ohio EPA sediment metal reference sites (2003), MacDonald (2000) Sediment Quality Guidelines (SQG) and Persuad (1993). Values digressing from guidelines are highlighted.

Parameter	Great Miami River Tributaries (Eastern Corn Belt Plains)						***Reference***	
	[11]S.Fk. GMR 8.00	[14]S.Fk. GMR 3.95	[17]Liggit Ditch 0.53	[18]N.Fk. GMR 10.7	[19]N.Fk. GMR 6.31	[20]Van Horn Ck. 0.97		
							Ohio SRV ECBP	**MacDonald** TEC -PEC
Al-T [O]	5800	5700	7570	7170	10100	6970	39000	*
As-T [OM]	7.18	5.07	7.09	11.3	6.74	24.8+	18	9.79-33
Ba-T [O]	61.4	46.1	65.2	81.7	80.1	146	240	*
Ca-T [O]	93600	70900	71000	73200	28200	84500	120000	*
Cd-T [OM]	0.288	0.209	0.398	0.550	0.450	0.673	0.9	0.99-4.98
Cr-T [OM]	7.99	8.41	9.83	10.3	12.0	10.7	40	43.4-111
Cu-T [OM]	10.8	9.00	21.2	17.4	14.7	17.3	34	31.6-149
Fe-T [O]	12600	12400	17000	20100	18000	23700	33000	*
Hg-T [OM]	<0.029	<0.021	0.044	<0.025	0.032	<0.05	0.12	0.18-1.06
K-T [O]	<1240	1080	1350	1420	1640	<1410	11000	*
Mg-T [O]	20600	21600	21300	17400	12800	24800	35000	*
Mn-T [O]	303	267	230	610	380	2810+	780	*
Na-T *	<3100	<2110	<2690	<3240	<2320	<3520	*	*
Ni-T [OM]	13.6	12.3	15.7	22.7	18.5	24.3	42	22.7-48.6
Pb-T [OM]	7.99	8.20	10.5	13.2	14.0	12.9	47	35.8-128
Se-T [O]	<1.24	<0.85	<1.07	<1.30	<0.93	<1.41	2.3	*
Sr-T [O]	499+	213	311	162	54	176	390	*
Zn-T [OM]	55.5	54.4	70.7	66.3	72.2	90.2	160	121-459
							Ohio	**Persuad**
NH_3-N [P]	41	510 L	47	27	94	78	*	100
TOC(%) [P]	4.6%	3.6%	4.3%	4.0%	3.0%	5.1%	*	10.0%
pH (SU) *	7.7	7.7	7.5	7.7	7.6	7.9	*	*
P-T [P]	367	320	731	497	678	889	*	2000
%FGM [O]	44%	26%	23%	47%	100%	35%	30.0%	*

↘ Below the goal of 30% Fine Grain Material in sample
%FGM Percent Fine Grain Material in sediment sample (<60 micron or >30 seconds settling time)
NA Compound not analyzed. * Not evaluated in guideline
[O] Ohio EPA (2003) [M] MacDonald (2000) [P] Persuad (1993)
? Detection limit is greater than guideline

Ohio Sediment Reference Values (SRV) Guidelines (2003)

\+ above reference value for ecoregion

Ontario Sediment Guidelines (Persuad 1993)

L > Open Water Disposal Guidelines; equivalent to the Lowest Effect Level (LEL)-applicable to NH_3-N only.
▲ > severe effect level (disturbance in benthic community can be expected)

MacDonald (2000) Sediment Quality Guidelines (SQG)

**>** TEC (Threshold effect concentration) and ≤ PEC (Probable effect concentration) Adverse effects frequently occur
■ > PEC (Probable effect concentration) -- Adverse effects usually or always occur

Table B-3. Concentrations (mg/kg unless otherwise noted) of metals and nutrients in sediment samples collected in Muchinippi Creek, Little Muchinippi Creek, and Jackson Center Creek, during 2008. Parameter concentrations were evaluated based on Ohio EPA sediment metal reference sites (2003), MacDonald (2000) Sediment Quality Guidelines (SQG) and Persuad (1993). Values digressing from guidelines are highlighted.

Parameter	Stream River Mile (Eastern Corn Belt Plains)					***Reference***	
	[24]Muchinippi Creek 2.37	[25]Muchinippi Creek 0.32	[27]L.Muchinippi Creek 6.05	[29]Jackson Center Ck. 2.9	[30]Jackson Center Ck. 1.8		
						Ohio SRV ECBP	**MacDonald** TEC -PEC
Al-T [O]	7210	7930	9070	10700	9170	39000	*
As-T [OM]	7.20	5.35	6.82	7.67	5.35	18	9.79-33
Ba-T [O]	75.8	89.2	92.8	107	120	240	*
Ca-T [O]	50200	32500	56100	25900	61000	120000	*
Cd-T [OM]	0.375	0.505	0.462	0.489	0.456	0.9	0.99-4.98
Cr-T [OM]	9.90	9.96	11.5	13.3	12.3	40	43.4-111
Cu-T [OM]	13.2	16.7	17.8	24.3	24.8	34	31.6-149
Fe-T [O]	17000	18900	18800	20400	16600	33000	*
Hg-T [OM]	<0.034	0.049	0.039	0.051	0.040	0.12	0.18-1.06
K-T [O]	1140	<2650	1700	1720	1650	11000	*
Mg-T [O]	19500	15100	20100	12300	26700	35000	*
Mn-T [O]	314	385	396	317	355	780	*
Na-T *	<2290	<2650	<3930	<3490	<2920	*	*
Ni-T [OM]	16.7	17.4	20.8	22.9	16.7	42	22.7-48.6
Pb-T [OM]	12.6	12.0	11.6	16.6	18.1	47	35.8-128
Se-T [O]	0.99	<1.06	<1.57	<1.40	<1.17	2.3	*
Sr-T [O]	161	147	206	116	204	390	*
Zn-T [OM]	69.5	74.2	77.5	104	110	160	121-459
						Ohio	**Persuad**
NH_3-N [P]	49	100 L	20	45	43	*	100
TOC(%) [P]	4.1%	4.6%	4.6%	3.3%	3.9%	*	10.0%
pH (SU) *	7.8	7.6	7.4	7.3	7.6	*	*
P-T [P]	260	683	620	494	1570	*	2000
%FGM [O]	27%	35%	100%	100%	44%	30.0%	*

↘ Below the goal of 30% Fine Grain Material in sample
%FGM Percent Fine Grain Material in sediment sample (<60 micron or >30 seconds settling time)
NA Compound not analyzed. * Not evaluated in guideline
[O] Ohio EPA (2003) [M] MacDonald (2000) [P] Persuad (1993)
? Detection limit is greater than guideline

Ohio Sediment Reference Values (SRV) Guidelines (2003)

\+ above reference value for ecoregion

Ontario Sediment Guidelines (Persuad 1993)

L > Open Water Disposal Guidelines; equivalent to the Lowest Effect Level (LEL)-applicable to NH_3-N only.
▲ > severe effect level (disturbance in benthic community can be expected)

MacDonald (2000) Sediment Quality Guidelines (SQG)

**>** TEC (Threshold effect concentration) and ≤ PEC (Probable effect concentration) Adverse effects frequently occur
■ > PEC (Probable effect concentration) -- Adverse effects usually or always occur

Table B-4. Concentrations (mg/kg unless otherwise noted) of metals and nutrients in sediment samples collected in Willow Creek,Tributary to Great Miami River (157.34, and Bokengehalas Creek, during 2008. Parameter concentrations were evaluated based on Ohio EPA sediment metal reference sites (2003), MacDonald (2000) Sediment Quality Guidelines (SQG) and Persuad (1993). Values digressing from guidelines are highlighted.

Parameter	Stream River Mile (Eastern Corn Belt Plains)					***Reference***	
	[31]Willow Creek 3.7	[33]Trib to GMR157.34 0.07	Bokengehalas Creek 12.24	[35]Bokengehalas Creek 7.88	[37]Bokengehalas Creek 1.13		
						Ohio SRV ECBP	**MacDonald** TEC -PEC
Al-T [O]	7890	10000	2860	8140	8630	39000	*
As-T [OM]	6.63	8.28	5.66	19.9+	7.91	18	9.79-33
Ba-T [O]	88.1	84.5	62.5	143	138	240	*
Ca-T [O]	71100	61800	143000	104000	94000	120000	*
Cd-T [OM]	0.505	0.460	0.237	0.476	0.492	0.9	0.99-4.98
Cr-T [OM]	10.3	12.3	7.37	12.2	12.5	40	43.4-111
Cu-T [OM]	20.1	17.4	11.8	21.9	27.0	34	31.6-149
Fe-T [O]	17900	20500	8550	28800	17800	33000	*
Hg-T [OM]	<0.031	0.050	0.030	0.050	0.079	0.12	0.18-1.06
K-T [O]	<1540	1670	<1240	<1470	1370	11000	*
Mg-T [O]	17900	22000	56500+	27200	29400	35000	*
Mn-T [O]	383	376	273	477	522	780	*
Na-T *	<3850	<3000	<3100	<3680	<3020	*	*
Ni-T [OM]	20.2	20.7	10.1	16.9	20.2	42	22.7-48.6
Pb-T [OM]	11.6	12.6	16.4	21.8	51.8 +	47	35.8-128
Se-T [O]	<1.54	<1.20	<1.24	<1.47	1.45	2.3	*
Sr-T [O]	305	235	156	559+	289	390	*
Zn-T [OM]	77.7	81.1	51.9	86.1	81.5	160	121-459
						Ohio	**Persuad**
NH_3-N [P]	140 L	69	47	100 L	370 L	*	100
TOC(%) [P]	5.1%	4.4%	5.9%	6.7%	6.1%	*	10.0%
pH (SU) *	7.4	7.5	8.0	7.6	7.7	*	*
P-T [P]	703	949	59	666	876	*	2000
%FGM [O]	45%	41%	22%	48%	50%	30.0%	*

↘ Below the goal of 30% Fine Grain Material in sample
%FGM Percent Fine Grain Material in sediment sample (<60 micron or >30 seconds settling time)
NA Compound not analyzed. * Not evaluated
[O] Ohio EPA (2003) [M] MacDonald (2000) [P] Persuad (1993)
? Detection limit is greater than guideline

Ohio Sediment Reference Values (SRV) Guidelines (2003)
+ above reference value for ecoregion

Ontario Sediment Guidelines (Persuad 1993)
L > Open Water Disposal Guidelines; equivalent to the Lowest Effect Level (LEL)-applicable to NH_3-N only.
▲ > severe effect level (disturbance in benthic community can be expected)

MacDonald (2000) Sediment Quality Guidelines (SQG)
**>** TEC (Threshold effect concentration) and ≤ PEC (Probable effect concentration) Adverse effects frequently occur
■ > PEC (Probable effect concentration) -- Adverse effects usually or always occur

Table B-5 Concentrations (mg/kg unless otherwise noted) of metals and nutrients in sediment samples collected in Blue Jacket Creek, Cherokee Mans Run, and Plum Creek during 2008. Parameter concentrations were evaluated based on Ohio EPA sediment metal reference sites (2003), MacDonald (2000) Sediment Quality Guidelines (SQG) and Persuad (1993). Values digressing from guidelines are highlighted.

Parameter	Stream River Mile (Eastern Corn Belt Plains)					***Reference***	
	[38]Blue Jacket Ck 6.31	[39]Blue Jacket Ck 5.39	[46]Cherokee Mans Run 7.56	[47]Cherokee Mans Run 3.5	[48]Plum Creek 9.0		
						Ohio SRV ECBP	**MacDonald** TEC -PEC
Al-T [O]	6950	4310	5810	3510	4700	39000	*
As-T [OM]	6.17	7.27	6.63	6.74	6.36	18	9.79-33
Ba-T [O]	137	97.0	72.3	49.7	48.2	240	*
Ca-T [O]	47200	89400	60500	101000	108000	120000	*
Cd-T [OM]	0.321	0.739	0.327	0.196	0.310	0.9	0.99-4.98
Cr-T [OM]	10.9	20.8	7.92	5.17	6.59	40	43.4-111
Cu-T [OM]	14.8	112+	12.3	9.35	10.1	34	31.6-149
Fe-T [O]	15200	12100	13400	11100	12600	33000	*
Hg-T [OM]	<0.033	0.288+	0.036	<0.026	<0.028	0.12	0.18-1.06
K-T [O]	<1110	<1270	<1040	<1040	<1140	11000	*
Mg-T [O]	20000	36800+	21900	30500	36800+	35000	*
Mn-T [O]	322	252	280	212	383	780	*
Na-T *	<2780	<3190	<2590	<2610	<2840	*	*
Ni-T [OM]	14.8	84.1+■	12.9	10.6	12.0	42	22.7-48.6
Pb-T [OM]	16.2	720+■	11.4	6.69	8.12	47	35.8-128
Se-T [O]	<1.11	<1.27	<1.04	<1.04	<1.14	2.3	*
Sr-T [O]	70	113	165	182	108	390	*
Zn-T [OM]	67.4	177+	52.4	38.3	49.6	160	121-459
						Ohio	**Persuad**
NH_3-N [P]	47	85	29	23	70	*	100
TOC(%) [P]	4.0%	6.6%	4.0%	4.4%	4.8%	*	10.0%
pH (SU) *	7.8	7.8	7.9	7.8	7.7	*	*
P-T [P]	671	1080	477	502	552	*	2000
%FGM [O]	50%	100%	45%	13%	40%	30.0%	*

↘ Below the goal of 30% Fine Grain Material in sample
%FGM Percent Fine Grain Material in sediment sample (<60 micron or >30 seconds settling time)
NA Compound not analyzed. * Not evaluated by guideline
[O] Ohio EPA (2003) [M] MacDonald (2000) [P] Persuad (1993)
? Detection limit is greater than guideline

Ohio Sediment Reference Values (SRV) Guidelines (2003)

\+ above reference value for ecoregion

Ontario Sediment Guidelines (Persuad 1993)

L > Open Water Disposal Guidelines; equivalent to the Lowest Effect Level (LEL)-applicable to NH_3-N only.
▲ > severe effect level (disturbance in benthic community can be expected)

MacDonald (2000) Sediment Quality Guidelines (SQG)

**>** TEC (Threshold effect concentration) and ≤ PEC (Probable effect concentration) Adverse effects frequently occur
■ > PEC (Probable effect concentration) -- Adverse effects usually or always occur

Table B-6. Concentrations (mg/kg unless otherwise noted) of metals and nutrients in sediment samples collected in McKees Creek and Loramie Creek during 2008. Parameter concentrations were evaluated based on Ohio EPA sediment metal reference sites (2003), MacDonald (2000) Sediment Quality Guidelines (SQG) and Persuad (1993). Values digressing from guidelines are highlighted.

Parameter	Stream River Mile (Eastern Corn Belt Plains)					*Reference*	
	[56]McKees Creek 9.5	[58]McKees Creek 0.52	[59]Loramie Creek 36.84	[60]Loramie Creek 34.96	[61]Loramie Creek 30.42		
						Ohio SRV ECBP	**MacDonald** TEC -PEC
Al-T [O]	7440	6080	12400	6420	3670	39000	*
As-T [OM]	20.5+	17.8	7.91	4.76	6.15	18	9.79-33
Ba-T [O]	201	112	88.5	52.3	26.0	240	*
Ca-T [O]	76800	103000	35100	50700	44700	120000	*
Cd-T [OM]	0.956+	0.345	0.491	0.423	0.331	0.9	0.99-4.98
Cr-T [OM]	19.7	8.80	13.5	9.49	10.4	40	43.4-111
Cu-T [OM]	87.3+	17.9	22.1	16.8	8.92	34	31.6-149
Fe-T [O]	32800	23200	22100	13600	9430	33000	*
Hg-T [OM]	<0.114	<0.036	<0.044	0.056	0.030	0.12	0.18-1.06
K-T [O]	<3620	<1440	1720	<1290	<684	11000	*
Mg-T [O]	23600	32700	14400	19100	16300	35000	*
Mn-T [O]	938+	416	409	235	148	780	*
Na-T *	<9060	<3610	<2460	<3230	<1710	*	*
Ni-T [OM]	24.8	21.3	23.8	15.0	13.4	42	22.7-48.6
Pb-T [OM]	73.2+	12.6	14.2	11.6	6.43	47	35.8-128
Se-T [O]	<3.62	<1.44	<0.98	<1.29	<0.68	2.3	*
Sr-T [O]	134	204	68	853+	174	390	*
Zn-T [OM]	196+	69.3	99.8	70.5	35.9	160	121-459
						Ohio	**Persuad**
NH_3-N [P]	170 L	2000 L	42	60	41	*	100
TOC(%) [P]	11%▲	4.2%	3.1%	3.8%	3.9%	*	10.0%
pH (SU) *	7.4	7.7	7.5	7.8	7.9	*	*
P-T [P]	874	397	745	850	414	*	2000
%FGM [O]	33%	100%	44%	30%	11%	30.0%	*

↘ Below the goal of 30% Fine Grain Material in sample
%FGM Percent Fine Grain Material in sediment sample (<60 micron or >30 seconds settling time)
NA Compound not analyzed. * Not evaluated by guideline
[O] Ohio EPA (2003) [M] MacDonald (2000) [P] Persuad (1993)
? Detection limit is greater than guideline

Ohio Sediment Reference Values (SRV) Guidelines (2003)

\+ above reference value for ecoregion

Ontario Sediment Guidelines (Persuad 1993)

L > Open Water Disposal Guidelines; equivalent to the Lowest Effect Level (LEL)-applicable to NH_3-N only.
▲ > severe effect level (disturbance in benthic community can be expected)

MacDonald (2000) Sediment Quality Guidelines (SQG)

**>** TEC (Threshold effect concentration) and ≤ PEC (Probable effect concentration) Adverse effects frequently occur
■ > PEC (Probable effect concentration) -- Adverse effects usually or always occur

Table B-7. Concentrations (mg/kg unless otherwise noted) of metals and nutrients in sediment samples collected in the Loramie Creek and Miami Erie Canal during 2008. Parameter concentrations were evaluated based on Ohio EPA sediment metal reference sites (2003), MacDonald (2000) Sediment Quality Guidelines (SQG) and Persuad (1993). Values digressing from guidelines are highlighted.

Parameter	Stream River Mile (Eastern Corn Belt Plains)						***Reference***	
	Loramie Creek 62 22.1	Loramie Creek 64 20.7	Loramie Creek 72 18.82	Loramie Creek 73 16.51	Loramie Creek 76 1.87	Miami-Erie Can 66 0.1		
							Ohio SRV ECBP	**MacDonald** TEC -PEC
Al-T O	6100	4260	7700	6370	2480	11900	39000	*
As-T OM	8.87	4.72	9.12	4.93	3.10	13.0	18	9.79-33
Ba-T O	52.6	41.5	58.8	46.8	18.2	86.0	240	*
Ca-T O	71900	57500	17800	23700	37600	38400	120000	*
Cd-T OM	0.464	0.208	0.308	0.432	0.132	0.919+	0.9	0.99-4.98
Cr-T OM	9.35	7.07	10.3	9.30	4.91	14.8	40	43.4-111
Cu-T OM	14.6	12.4	18.3	14.4	9.44	23.8	34	31.6-149
Fe-T O	14900	11200	17700	13000	6790	28400	33000	*
Hg-T OM	0.037	<0.033	0.025	0.035	<0.023	0.059	0.12	0.18-1.06
K-T O	1470	<1110	1270	1070	<954	1990	11000	*
Mg-T O	24400	18400	5710	10300	15600	14900	35000	*
Mn-T O	333	282	552	231	134	1020+	780	*
Na-T *	<3410	<2760	<2490	<2350	<2380	<2980	*	*
Ni-T OM	17.6	11.9	15.8	13.9	6.96	24.7	42	22.7-48.6
Pb-T OM	11.5	8.84	15.6	14.0	6.25	19.0	47	35.8-128
Se-T O	<1.36	<1.11	<1.00	<0.94	<0.95	<1.19	2.3	*
Sr-T O	146	738+	444+	337	86	359	390	*
Zn-T OM	53.6	54.5	58.8	65.1	23.1	140	160	121-459
							Ohio	**Persuad**
NH_3-N P	29	36	73	35	14	340 L	*	100
TOC(%) P	4.3%	3.5%	2.0%	2.7%	2.8%	2.3%	*	10.0%
pH (SU) *	7.9	8.1	8.5	8.0	7.8	8.5	*	*
P-T P	955	2260▲	1550	1040	326	1450	*	2000
%FGM O	100%	9%↘	28%↘	23%↘	7%↘	100%	30.0%	*

↘ Below the goal of 30% Fine Grain Material in sample
%FGM Percent Fine Grain Material in sediment sample (<60 micron or >30 seconds settling time)
NA Compound not analyzed. * Not evaluated by guideline
O Ohio EPA (2003) M MacDonald (2000) P Persuad (1993)
? Detection limit is greater than guideline

Ohio Sediment Reference Values (SRV) Guidelines (2003)
\+ above reference value for ecoregion

Ontario Sediment Guidelines (Persuad 1993)
L > Open Water Disposal Guidelines; equivalent to the Lowest Effect Level (LEL)-applicable to NH_3-N only.
▲ > severe effect level (disturbance in benthic community can be expected)

MacDonald (2000) Sediment Quality Guidelines (SQG)
**>** TEC (Threshold effect concentration) and ≤ PEC (Probable effect concentration) Adverse effects frequently occur
■ > PEC (Probable effect concentration) -- Adverse effects usually or always occur

Table B-8. Concentrations (mg/kg unless otherwise noted) of metals and nutrients in sediment samples collected in Mile Creek, and Nine Mile Creek during 2008. Parameter concentrations were evaluated based on Ohio EPA sediment metal reference sites (2003), MacDonald (2000) Sediment Quality Guidelines (SQG) and Persuad (1993). Values digressing from guidelines are highlighted.

Parameter	Stream River Mile (Eastern Corn Belt Plains)						***Reference***	
	[67]Mile Creek 9.8	[68]Mile Creek 8.74	[69]Mile Creek 5.97	[70]Mile Creek 0.5	[80] 9 Mile Creek 6.38	[81] 9 Mile Creek 4.18		
							Ohio SRV ECBP	**MacDonald** TEC -PEC
Al-T [O]	8470	9420	10100	8790	12600	5510	39000	*
As-T [OM]	10.1	10.1	7.87	8.94	8.3	6.50	18	9.79-33
Ba-T [O]	81.0	80.8	75.6	92.5	81.6	54.0	240	*
Ca-T [O]	47600	48600	55400	53400	63000	51800	120000	*
Cd-T [OM]	0.561	0.518	0.473	0.498	0.400	0.346	0.9	0.99-4.98
Cr-T [OM]	12.2	11.9	13.0	12.6	12.8	8.67	40	43.4-111
Cu-T [OM]	18.7	23.2	17.6	18.0	19.4	11.9	34	31.6-149
Fe-T [O]	18900	22800	55400+	20200	19900	13600	33000	*
Hg-T [OM]	<0.05	<0.038	<0.032	0.028	<0.029	<0.034	0.12	0.18-1.06
K-T [O]	1900	1830	2180	1550	2300	<942	11000	*
Mg-T [O]	14200	13900	17200	18100	23100	14000	35000	*
Mn-T [O]	653	430	406	506	306	377	780	*
Na-T *	<3730	<3350	<2690	<2690	<2100	<2360	*	*
Ni-T [OM]	23.1	23.1	20.8	20.1	26.0	15.5	42	22.7-48.6
Pb-T [OM]	11.3	14.1	11.9	13.1	9.82	12.7	47	35.8-128
Se-T [O]	<1.49	<1.34	<1.08	<1.08	<0.84	<0.94	2.3	*
Sr-T [O]	273	298	175	212	130	232	390	*
Zn-T [OM]	80.9	94.0	86.3	84.3	82.4	49.4	160	121-459
							Ohio	**Persuad**
NH_3-N [P]	46	48	76	79	36	56	*	100
TOC(%) [P]	3.8%	3.6%	3.9%	3.9%	4.1%	3.6%	*	10.0%
pH (SU) *	7.7	7.5	7.6	7.4	7.6	7.6	*	*
P-T [P]	796	721	382	888	356	451	*	2000
%FGM [O]	36%	44%	100%	44%	100%	22%↘	30.0%	*

↘ Below the goal of 30% Fine Grain Material in sample
%FGM Percent Fine Grain Material in sediment sample (<60 micron or >30 seconds settling time)
NA Compound not analyzed. * Not evaluated by guideline
[O] Ohio EPA (2003) [M] MacDonald (2000) [P] Persuad (1993)
? Detection limit is greater than guideline

Ohio Sediment Reference Values (SRV) Guidelines (2003)
\+ above reference value for ecoregion

Ontario Sediment Guidelines (Persuad 1993)
L > Open Water Disposal Guidelines; equivalent to the Lowest Effect Level (LEL)-applicable to NH_3-N only.
▲ > severe effect level (disturbance in benthic community can be expected)

MacDonald (2000) Sediment Quality Guidelines (SQG)
**>** TEC (Threshold effect concentration) and ≤ PEC (Probable effect concentration) Adverse effects frequently occur
■ > PEC (Probable effect concentration) -- Adverse effects usually or always occur

Table B-9. Concentrations of organic compounds (priority pollutant scan) detected in stream sediments in the upper Great Miami River watershed (WAU 05080001) in 2008. Individual compounds were evaluated by the MacDonald (2000) Sediment Quality Guidelines (SQG).

Stream / Rivermile Location	**Analysis Performed**	**Compound Detected**	**Result** mg/kg unless noted
Great Miami River / RM 158.2 Upstream Indian Lake WWTP WAU 0508001-03-02 Tot. Organic Carbon (TOC)=5.6% Fine Grain Material (FGM) = 28 %	1) BNA 2) Pesticides 3) PCBs		BDL BDL BDL
Great Miami River / RM 157.22 SR 235 WAU 0508001-03-02 TOC = 4.3% FGM = 35%	1) BNA 2) Pesticides 3) PCBs		BDL BDL BDL
Great Miami River / RM 143.2 SR235 Quincy WAU 0508001-04-06 TOC = 4.6 % FGM = 32 %	1) BNA 2) Pesticides 3) PCBs	Fluoranthene Pyrene	0.80 **#** 0.70 **#** BDL BDL
Great Miami River / RM 142.5 Downstream Quincy WWTP WAU 0508001-04-06 TOC = 4.7 % FGM = 5.0%	1) BNA 2) Pesticides 3) PCBs		BDL BDL BDL
Great Miami River / RM 129.9 Upstream Simpson Creek WAU 0508001-07-06 TOC = 3.9% FGM = 34%	1) BNA 2) Pesticides 3) PCBs		BDL BDL BDL
South Fork Great Miami River RM 8.00 SR638 WAU 0508001-01-02 TOC = 4.6% FGM = 44%	1) BNA 2) Pesticides 3) PCBs		BDL BDL BDL
South Fork Great Miami River RM 3.95 CR 96 WAU 0508001-01-02 TOC = 3.6% FGM = 26%	1) BNA 2) Pesticides 3) PCBs		BDL BDL BDL
Ligitt Ditch (*aka Slow Ditch)* RM 0.53 TR 49 WAU 0508001-01-02 TOC = 4.3% FGM = 23%	1) BNA 2) Pesticides 3) PCBs		BDL BDL BDL
North Fork Great Miami River RM 10.7 Farm lane WAU 0508001-01-01 TOC = 4.0% FGM = 47%	1) BNA 2) Pesticides 3) PCBs		BDL BDL BDL
North Fork Great Miami River RM 6.31 Dunn Road WAU 0508001-01-01 TOC = 3.0% FGM = 100.0 %	1) BNA 2) Pesticides 3) PCBs		BDL BDL BDL
Van Horn Creek / RM 0.97 SR 366 WAU 0508001-01-03 TOC = 5.1% FGM = 35%	1) BNA 2) Pesticides 3) PCBs		BDL BDL BDL

Stream / Rivermile Location	**Analysis Performed**	**Compound Detected**	**Result** mg/kg unless noted
Muchinippi Creek / RM 2.37 SR 274 WAU 0508001-02-02 TOC = 4.1% FGM = 37%	1) BNA 2) Pesticides 3) PCBs		BDL BDL BDL
Muchinippi Creek / RM 0.32 SR 60 WAU 0508001-02-04 TOC = 4.6% FGM = 35%	1) BNA 2) Pesticides 3) PCBs	Methoxychlor	BDL 11.6 µg/Kg * BDL
Little Muchinippi Creek RM 6.05 Wones Road WAU 0508001-02-03 TOC = 4.6% FGM = 100.0%	1) BNA 2) Pesticides 3) PCBs		BDL BDL BDL
Jackson Center Creek RM 2.9 ust. SR 274 WAU 0508001-02-03 TOC = 3.3% FGM = 100.0%	1) BNA 2) Pesticides 3) PCBs	Pyrene Fluoranthene Bis(2-Ethylhexyl)phthalate	0.99**#** 1.23**#** 0.83 BDL BDL
Jackson Center Creek RM 1.8 Lock Two Road WAU 0508001-02-03 TOC = 3.9% FGM = 44%	1) BNA 2) Pesticides 3) PCBs	Fluoranthene Bis(2-Ethylhexyl)phthalate	0.74 **#** 0.98 * BDL BDL
Willow Creek / RM 3.7 Wrestle Creek Road WAU 0508001-02-01 TOC = 5.1% FGM = 45%	1) BNA 2) Pesticides 3) PCBs		BDL BDL BDL
Tributary to GMR / RM 0.07 Off SR 235 WAU 0508001-03-02 TOC = 4.4% FGM = 41**%**	1) BNA 2) Pesticides 3) PCBs		BDL BDL BDL
Bokengahalas Creek RM 12.24 CR 13 WAU 0508001-03-05 TOC = 5.9% FGM = 22%	1) BNA 2) Pesticides 3) PCBs	Fluoranthene	0.67 # BDL BDL
Bokengahalas Creek / RM 7.88 Twp Rd 31 ust Blue Jacket Ck. WAU 0508001-03-05 TOC = 6.7% FGM = 48%	1) BNA 2) Pesticides 3) PCBs		BDL BDL BDL
Bokengahalas Creek / RM 1.13 Miami St. Degraff. WAU 0508001-03-05 TOC = 6.1% FGM = 50%	1) BNA 2) Pesticides 3) PCBs	Benz(a) anthracene Benzo[a]pyrene Benzo[b]fluoranthene Benzo[g,h,i]perylene Benzo[k]fluoranthene Chrysene Fluoranthene Indeno[1,2,3-cd]pyrene Phenanthrene Pyrene **Total PAH**	1.52 ■ 2.24 ■ 1.24 * 1.40 * 1.20 # 1.63 ■ 1.62 ■ 1.24 # 1.37 ■ 3.10 ■ **16.56 #** BDL BDL

Stream / Rivermile Location	**Analysis Performed**	**Compound Detected**	**Result** mg/kg unless noted
Blue Jacket Creek / RM 6.31 Twp Rd 216 (Troy St) WAU 0508001-03-04 TOC = 4.0% FGM = 50%	1) BNA 2) Pesticides 3) PCBs		BDL BDL BDL
Blue Jacket Creek / RM 5.39 CR11 dst. Bellefountaine WWTP WAU 0508001-03-04 TOC = 6.6% FGM = 100.0%	1) BNA	Benz(a) anthracene Benzo[a]pyrene Benzo[b]fluoranthene Benzo[g,h,i]perylene Benzo[k]fluoranthene Chrysene Fluoranthene Indeno[1,2,3-cd]pyrene Phenanthrene Pyrene **Total PAH**	2.19 ■ 2.11 ■ 2.04 * 1.49 * 1.44 * 2.26 ■ 3.87 ■ 1.57 * 1.80 ■ 3.61 ■ **22.38 #**
	2) Pesticides	4,4' -DDD Dieldrin Mirex Alpha -Chlordane Gamma- Chlordane	8.7 µg/Kg **#** 8.9 µg/Kg **#** 26.0 µg/Kg * 21.0 µg/Kg ■ 18.5 µg/Kg ■
	3) PCBs	PCB-1242 PCB-1254 **Total PCBs**	90.1 µg/Kg 285 µg/Kg **375.1** µg/Kg **#**
Cherokee Mans Run RM 7.56 Upstream US 117 WAU 0508001-03-01 TOC = 4.0% FGM = 45%	1) BNA 2) Pesticides 3) PCBs		BDL BDL BDL
Cherokee Mans Run RM 3.5 Upstream US 33 WAU 0508001-03-01 TOC = 4.4% FGM = 13%	1) BNA	Benz(a) anthracene Fluoranthene Phenanthrene Pyrene	0.56 **#** 1.30 **#** 1.47 ■ 0.97 **#**
	2) Pesticides	4,4'-DDT	8.7 µg/Kg **#**
	3) PCBs		BDL
Plum Creek / RM 9.0 Miranda Road WAU 0508001-04-05 TOC = 4.8% FGM = 40%	1) BNA 2) Pesticides 3) PCBs		BDL BDL BDL
McKeesCreek / RM 9.5 County Road Ludlow Creek Rd. WAU 0508001-04-01 TOC = 11% FGM = 33%	1) BNA	Benz(a) anthracene Benzo[a]pyrene Benzo[b]fluoranthene Benzo[k]fluoranthene Chrysene Fluoranthene Indeno[1,2,3-cd]pyrene Phenanthrene Pyrene **Total PAHs**	3.33 ■ 3.65 ■ 3.86 * 3.94 * 4.62 ■ 10.1 ■ 2.58* 5.69 ■ 7.91 ■ **45.68** ■
	2) Pesticides 3) PCBs		BDL BDL
McKeesCreek / RM 0.52 County Road 31 WAU 0508001-04-01 TOC = 4.2% FGM = 100.0%	1) BNA 2) Pesticides 3) PCBs		BDL BDL BDL

Stream / Rivermile Location	**Analysis Performed**	**Compound Detected**	**Result** mg/kg unless noted
Loramie Creek / RM 38.84 Bodkins Road WAU 0508001-05-01 TOC = 3.1% FGM = 44%	1) BNA 2) Pesticides 3) PCBs	Pentachlorophenol	1.71 * BDL BDL
Loramie Creek / RM 34.96 Lock #2 Road WAU 0508001-05-01 TOC = 3.8% FGM = 30.0%	1) BNA 2) Pesticides 3) PCBs	3&4 Methylphenol	1.00 * BDL BDL
Loramie Creek / RM 30.42 Loramie Ck-Wapak Hardin Rd. WAU 0508001-05-01 TOC = 3.9% FGM = 11%	1) BNA 2) Pesticides 3) PCBs		BDL BDL BDL
Loramie Creek / RM 22.1 Dst Lake Loramie Dam WAU 0508001-05-03 TOC = 4.3% FGM = 100.0%	1) BNA 2) Pesticides 3) PCBs		BDL BDL BDL
Loramie Creek / RM 20.7 SR 66 WAU 0508001-05-03 TOC = 3.5% FGM = 9%	1) BNA 2) Pesticides 3) PCBs	3&4 Methylphenol	0.74 * BDL BDL
Miami Erie Canal /RM 0.1 Near mouth WAU 0508001-05-03 TOC = 2.3% FGM = 100%	1) BNA 2) Pesticides 3) PCBs		BDL BDL BDL
Mile Creek / RM 9.8 Goettlemoeller Road WAU 0508001-05-02 TOC = 3.8% FGM = 36%	1) BNA 2) Pesticides 3) PCBs		BDL BDL BDL
Mile Creek / RM 8.74 Clune Stucke Rd. WAU 0508001-05-02 TOC = 3.6% FGM = 44%	1) BNA 2) Pesticides 3) PCBs		BDL BDL BDL
Mile Creek / RM 5.97 Kremer Road WAU 0508001-05-02 TOC = 3.9% FGM = 100.0%	1) BNA 2) Pesticides 3) PCBs		BDL BDL BDL
Mile Creek / RM 0.5 SR 705 WAU 0508001-05-02 TOC = 3.9% FGM = 44%	1) BNA 2) Pesticides 3) PCBs		BDL BDL BDL
Loramie Creek / RM 18.82 Schlater Rd. WAU 0508001-06-02 TOC = 2.0% FGM = 28%	1) BNA 2) Pesticides 3) PCBs		BDL BDL BDL
Loramie Creek / RM 16.51 Cardo Roman Rd. WAU 0508001-06-02 TOC = 2.7% FGM = 23%	1) BNA 2) Pesticides 3) PCBs		BDL BDL BDL

Stream / Rivermile Location	**Analysis Performed**	**Compound Detected**	**Result** mg/kg unless noted
Loramie Creek / RM 1.87 Fessler Buxton Road WAU 0508001-06-04 TOC = 2.8% FGM = 7.0%	1) BNA 2) Pesticides 3) PCBs		BDL BDL BDL
Nine Mile Creek / RM 6.38 Miller Road WAU 0508001-06-01 TOC = 4.1% FGM = 100.0%	1) BNA 2) Pesticides 3) PCBs		BDL BDL BDL
Nine Mile Creek / RM 4.18 Miller Road WAU 0508001-06-01 TOC = 3.6% FGM = 22.0%	1) BNA 2) Pesticides 3) PCBs	3&4 Methylphenol Pentachlorophenol	0.70 * 1.32 * BDL BDL

* Not evaluated in guidelines
BDL Below Detection Limit
TOC Total Organic Carbon
1) Base Neutral & Acid Extractables (BNA) U.S. EPA Method 8270
2) Pesticides U.S. EPA Methods 8082A
3) Polychlorinated biphenyls (PCBs) U.S. EPA Method 8082A

Percent Fine Grain Material in sediment sample (<60 micron or >30 seconds settling time)

MacDonald (2000) Sediment Quality Guidelines (SQG)

\+ **≤** TEC (Threshold effect concentration)
Harmful effects are unlikely to be observed
**>**TEC and ≤ PEC (Probable effect concentration)
Adverse effects frequently occur
■ > PEC (Probable effect concentration)
Adverse effects usually or always occur

APPENDIX C

Table C-1 to C-2

Qualitative Habitat Evaluation Index (QHEI) scores and physical attributes for fish sampling sites in the upper Great Miami River watershed, 2008

and

A list of highlighted upper Great Miami River survey sites that are currently under County ditch maintenance.

Appendix Table C-1. Qualitative Habitat Evaluation Index (QHEI) scores and physical attributes for fish sampling sites in the upper Great Miami River watershed, 2008.

Key QHEI Components

WWH Attributes | MWH Attributes (*High Influence* | *Moderate Influence*)

River Mile	QHEI	Gradient (ft/mile)	No Channelization or Recovered	Boulder/Cobble/Gravel Substrates	Silt Free Substrates	Good/Excellent Substrates	Moderate/High Sinuosity	Extensive/Moderate Cover	Fast Current/Eddies	Low-Normal Overall Embeddedness	Max Depth > 40 cm	Low-Normal Riffle Embeddedness	**Total WWH Attributes**	Channelized or No Recovery	Silt/Muck Substrates	No Sinuosity	Sparse/No Cover	Max Depth < 40 cm (WD, HW)	**Total HL MWH Attributes**	Recovering Channel	Heavy/Moderate Silt Cover	Sand Substrates (Boat)	Hardpan 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	**Total ML MWH Attributes**	**(MWH HL+1)/(MWH+1) Ratio**	**(MWH ML+1)/(MWH+1) Ratio**
(14-001) Great Miami River																																		
Year: 2008																																		
158.9	**72.5**	0.77	■	■		■	■	■	■		■		7						0		•							•	•		3	0.13	0.50
157.2	**44.5**	0.77						■			■		2	♦	♦			♦	3	•	•		•	•		•		•	•	•	7	1.33	3.67
153.5	**43.5**	0.77						■			■		2	♦	♦			♦	3		•		•	•		•		•	•	•	6	1.33	3.33
146.2	**76.0**	1.21		■		■	■	■	■		■	■	7						0	•	•		•					•			4	0.13	0.63
143.2	**79.0**	2.82	■	■		■		■	■		■	■	7						0		•		•	•				•			4	0.13	0.63
142.5	**74.5**	2.82	■	■		■	■	■			■		6						0		•		•					•	•	•	5	0.14	0.86
138.4	**73.0**	2.07		■		■		■			■	■	5				♦		1	•	•		•	•		•		•	•	•	7	0.33	1.50
130.0	**78.0**	12.34		■		■	■	■	■		■	■	7				♦		1	•	•			•				•		•	5	0.25	0.88
110.1	**76.0**	2.37	■	■		■	■		■		■	■	7				♦		1	•	•		•	•		•		•	•	•	7	0.25	1.13
98.5	**89.5**	1.81	■	■		■	■	■	■		■	■	8						0		•							•	•		3	0.11	0.44
(14-063) Plum Creek																																		
Year: 2008																																		
9.0	**53.0**	5.68		■				■			■	■	4	♦			♦		2	•	•		•					•	•	•	6	0.60	1.80
5.2	**62.5**	18.52		■		■	■	■	■				5				♦	♦	2	•	•								•	•	4	0.50	1.17
0.1	**84.5**	14.71	■	■		■	■	■	■	■	■	■	9						0												0	0.10	0.10
(14-069) Indian Creek																																		
Year: 2008																																		
0.1	**88.5**	11.11	■	■		■	■	■	■	■	■	■	9						0												0	0.10	0.10
(14-072) Stony Creek																																		
Year: 2008																																		
2.4	**45.0**	5.24	■					■	■		■		4		♦				1		•		•	•				•		•	5	0.40	1.40
1.6	**51.5**	3.83	■					■			■		3		♦				1		•		•	•		•		•	•	•	6	0.50	2.00
(14-073) Lee Creek																																		
Year: 2008																																		
3.4	**97.5**	7.75	■	■	■	■	■	■	■	■	■	■	10						0												0	0.09	0.09
(14-074) Graves Creek																																		
Year: 2008																																		
0.5	**78.0**	8.33	■	■		■	■	■	■	■	■	■	9						0	•									•		2	0.10	0.30
(14-075) McKee Creek																																		
Year: 2008																																		
9.5	**75.0**	66.67	■	■		■	■	■	■	■	■	■	9						0											•	1	0.10	0.20

Appendix Table C-1. Qualitative Habitat Evaluation Index (QHEI) scores and physical attributes for fish sampling sites in the upper Great Miami River watershed, 2008.

River Mile	QHEI	Gradient (ft/mile)	WWH Attributes: No Channelization or Recovered	Boulder/Cobble/Gravel Substrates	Silt Free Substrates	Good/Excellent Substrates	Moderate/High Sinuosity	Extensive/Moderate Cover	Fast Current/Eddies	Low-Normal Overall Embeddedness	Max Depth > 40 cm	Low-Normal Riffle Embeddedness	Total WWH Attributes	MWH Attributes: High Influence: Channelized or No Recovery	Silt/Muck Substrates	No Sinuosity	Sparse/No Cover	Max Depth < 40 cm (WD, HW)	Total HL MWH Attributes	MWH Attributes: Moderate Influence: Recovering Channel	Heavy/Moderate Silt Cover	Sand Substrates (Boat)	Hardpan 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	Total ML MWH Attributes	(MWH HL+1)/(MWH+1) Ratio	(MWH ML+1)/(MWH+1) Ratio
(14-075) McKee Creek																																	
Year: 2008																																	
5.9	**72.0**	23.81	■	■		■	■	■	■	■	■	■	9						0		●	●					●				3	0.10	0.40
0.6	**88.5**	18.18	■	■	■	■	■	■	■	■	■	■	10						0												0	0.09	0.09
(14-076) Bokengehalas Creek																																	
Year: 2008																																	
12.3	**68.5**	19.61		■		■		■	■	■		■	6			♦		♦	2	●		●										2	0.43	0.71
8.0	**69.0**	6.25		■				■	■			■	4	♦					1	●	●			●	●				●	●		6	0.40	1.60
4.6	**89.0**	16.95	■	■		■	■	■	■	■	■	■	9						0													0	0.10	0.10
1.2	**88.5**	4.41	■	■		■	■	■	■	■	■	■	9						0													0	0.10	0.10
(14-077) Bluejacket Creek																																	
Year: 2008																																	
6.3	**70.0**	31.25	■	■		■	■	■		■		■	7					♦	1								●					1	0.25	0.38
5.5	**84.5**	50.00	■	■		■	■	■	■	■	■	■	9						0													0	0.10	0.10
0.7	**69.5**	12.50	■	■		■		■	■	■	■	■	8				♦		1	●		●										2	0.22	0.44
(14-078) Rum Creek																																	
Year: 2008																																	
8.6	**31.5**	4.35								■	■		2	♦			♦	♦	3		●		●		●		●		●		●	6	1.33	3.33
6.6	**41.5**	5.88		■							■		2	♦			♦	♦	3	●	●	●	●		●		●		●	●		8	1.33	4.00
0.8	**59.0**	5.43	■	■			■	■			■	■	6						0		●		●	●			●		●			5	0.14	0.86
(14-083) Brandywine Creek																																	
Year: 2008																																	
0.6	**46.5**	8.33								■	■		2	♦			♦	♦	3	●		●	●				●			●		5	1.33	3.00
(14-084) Cherokee Mans Run																																	
Year: 2008																																	
7.6	**82.5**	22.22	■	■		■	■	■	■	■	■	■	9						0		●								●			2	0.10	0.30
3.5	**68.0**	14.49		■		■	■	■	■		■	■	7				♦		1	●	●		●						●			4	0.25	0.75
(14-092) Trib. to Great Miami R. (RM 157.34)																																	
Year: 2008																																	
0.1	**17.5**	3.70									■		1	♦	♦		♦	♦	4		●		●		●		●		●		●	6	2.50	5.50
(14-199) Rennick Creek																																	
Year: 2008																																	
0.3	**50.0**	6.94		■							■		2	♦			♦	♦	3	●	●		●	●				●	●	●		7	1.33	3.67

Appendix Table C-1. Qualitative Habitat Evaluation Index (QHEI) scores and physical attributes for fish sampling sites in the upper Great Miami River watershed, 2008.

River Mile	QHEI	Gradient (ft/mile)	Total WWH Attributes	Total HL MWH Attributes	Total ML MWH Attributes	(MWH HL+1)/(WWH+1) Ratio	(MWH ML+1)/(WWH+1) Ratio
(14-600) Loramie Creek							
Year: 2008							
36.9	**41.0**	4.95	2	2	6	1.00	3.00
35.0	**47.5**	3.13	2	2	6	1.00	3.00
30.4	**39.5**	1.00	2	3	7	1.33	3.67
22.1	**71.5**	1.87	9	0	3	0.10	0.40
20.7	**52.0**	1.87	4	2	6	0.60	1.80
19.3	**50.5**	1.87	2	2	7	1.00	3.33
18.9	**33.5**	1.87	1	3	7	2.00	5.50
14.8	**86.0**	2.16	9	0	0	0.10	0.10
7.5	**57.0**	2.37	4	1	6	0.40	1.60
1.8	**92.0**	5.46	9	0	1	0.10	0.20
(14-603) Turtle Creek							
Year: 2008							
8.5	**53.5**	5.95	5	1	4	0.33	1.00
5.7	**78.5**	9.90	7	0	2	0.13	0.38
0.5	**72.5**	17.54	6	0	5	0.14	0.86
(14-606) Ninemile Creek							
Year: 2008							
6.4	**30.5**	5.10	2	3	6	1.33	3.33
4.2	**60.5**	6.85	6	2	5	0.43	1.14
0.2	**80.5**	6.77	9	0	0	0.10	0.10
(14-609) Mile Creek							
Year: 2008							
9.8	**33.5**	1.60	1	4	6	2.50	5.50
8.8	**28.0**	1.60	0	5	6	6.00	*.**
6.0	**26.5**	1.01	1	3	7	2.00	5.50
0.5	**38.5**	1.01	1	2	7	1.50	5.00
(14-615) Spring Creek							
Year: 2008							
0.4	**38.5**	0.97	3	1	6	0.50	2.00
(14-700) Muchinippi Creek							
Year: 2008							

Appendix Table C-1. Qualitative Habitat Evaluation Index (QHEI) scores and physical attributes for fish sampling sites in the upper Great Miami River watershed, 2008.

River Mile	QHEI	Gradient (ft/mile)	Total WWH Attributes	Total HL MWH Attributes	Total ML MWH Attributes	(MWH HL+1)/(MWH+1) Ratio	(MWH ML+1)/(MWH+1) Ratio
(14-700) Muchinippi Creek							
Year: 2008							
13.0	**37.0**	4.86	2	3	5	1.33	3.00
12.5	**32.0**	4.90	1	4	5	2.50	5.00
7.4	**76.5**	3.94	8	0	3	0.11	0.44
4.8	**43.0**	1.71	3	1	7	0.50	2.25
2.4	**47.0**	3.14	3	2	6	0.75	2.25
(14-703) Little Muchinippi Creek							
Year: 2008							
6.1	**41.0**	3.16	3	3	5	1.00	2.25
0.7	**56.0**	3.09	3	1	6	0.50	2.00
(14-705) Jackson Center Creek							
Year: 2008							
2.9	**33.5**	12.50	1	4	6	2.50	5.50
1.8	**31.0**	3.82	0	4	6	5.00	*.**
(14-706) Willow Creek							
Year: 2008							
3.7	**37.0**	3.36	2	3	6	1.33	3.33
0.5	**37.5**	3.03	2	3	5	1.33	3.00
(14-800) South Fork Great Miami River							
Year: 2008							
8.0	**76.5**	11.90	8	1	3	0.22	0.56
7.3	**76.5**	8.70	9	0	1	0.10	0.20
5.8	**59.0**	6.85	5	1	6	0.33	1.33
4.0	**76.0**	4.42	9	0	4	0.10	0.50
1.8	**83.0**	6.85	9	0	0	0.10	0.10
(14-801) Liggitt Ditch							
Year: 2008							
0.5	**27.5**	4.35	0	5	5	6.00	*.**
(14-802) North Fork Great Miami River							
Year: 2008							
10.7	**38.5**	4.72	3	3	5	1.00	2.25
6.4	**64.0**	9.35	4	1	6	0.40	1.60

Appendix Table C-1. Qualitative Habitat Evaluation Index (QHEI) scores and physical attributes for fish sampling sites in the upper Great Miami River watershed, 2008.

River Mile	QHEI	Gradient (ft/mile)	WWH Attributes: No Channelization or Recovered	Boulder/Cobble/Gravel Substrates	Silt Free Substrates	Good/Excellent Substrates	Moderate/High Sinuosity	Extensive/Moderate Cover	Fast Current/Eddies	Low-Normal Overall Embeddedness	Max Depth > 40 cm	Low-Normal Riffle Embeddedness	Total WWH Attributes	MWH Attributes (High Influence): Channelized or No Recovery	Silt/Muck Substrates	No Sinuosity	Sparse/No Cover	Max Depth < 40 cm (WD, HW)	Total HL MWH Attributes	MWH Attributes (Moderate Influence): Recovering Channel	Heavy/Moderate Silt Cover	Sand Substrates (Boat)	Hardpan 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	Total ML MWH Attributes	(MWH HL+1)/(WWH+1) Ratio	(MWH ML+1)/(WWH+1) Ratio
(14-804) Van Horn Creek																																	
Year: 2008																																	
1.0	**60.5**	9.80	■				■			■	■	■	5	♦		♦			2	•	•		•			•		•	•		5	0.50	1.33
(14-805) Trib. to S. Fk. Great Miami R. (RM 7.24)																																	
Year: 2008																																	
0.5	**44.0**	3.98						■	■		■		3	♦	♦		♦	♦	4		•		•				•		•	•		4	1.25	2.25
(14-806) Trib. to S. Fk. Great Miami R. (RM 5.27)																																	
Year: 2008																																	
0.5	**65.0**	3.98	■	■		■	■	■			■		6						0		•						•	•	•	•		4	0.14	0.71
(14-999) Miami-Erie Canal																																	
Year: 2008																																	
0.1	**48.5**	2.22		■					■			■	3	♦			♦	♦	4		•		•						•			3	1.25	2.00

Appendix Table C-2. A llist of highlighted upper Great Miami River survey sites that are currently under County ditch maintenance.

Yellow = Logan Co. | Tan = Auglaize Co. | Blue = Mercer Co. | Green = Shelby Co.

RM	Location	Mi^2	Latitude	Longitude	Sampling	Storet #	Type
Great Miami River (14-001-000)							
HUC 05080001 030							
158.9	Ust Indian Lake WWTP	122	40.4631	-83.8875	F,M, C	H01W13	**H**
158.14	Logan Co Indian Lake SSD	NA	40.45613	-83.8955	E	H01W14	**Effluent**
157.22	St. Rt. 235	131	40.4512	-83.9071	F,M, C, D	H01P04	**G, H, Sent.**
156.36	St. Rt. 274	133	40.4395	-83.9103	D	610100	**H**
153.1	CR 13	246	40.3967	-83.9282	F,M, C	H01503	**G, H**
146.3	St. Rt. 235	296	40.3158	-83.9275	F,M, C	H01520	**H**
HUC 05080001 040							
143.2	Dst. Quincy Dam @ St. Rt. 235	411	40.3028	-83.9692	F,M, C	H01W05	**G, H**
143.1	Quincy-DeGraff WWTP	NA	40.30382	-83.9707	E	H01W04	**Effluent**
142.5	Dst. Quincy WWTP, adj. CR 73	412	40.3087	-83.9774	F,M, C, D	H01518	**H**
138.2	Ust. Port Jefferson @ Baker Rd.	429	40.3372	-84.0417	F,M, C, D	610020	**H**
HUC 05080001 070							
129.99	SR 47 (E North St) in Sidney	541	40.2869	-84.15	F, M, C, D	H02P12	**H, Sent.**
HUC 05080001 010							
North Fork Great Miami River (14-802-000)							
10.7	Farm lane, 1 mi. dst. Madory Rd.	9	40.5606	-83.7772	f, M, C, S	H01528	**G, RR**
6.31	Dunn Rd.	14.4	40.5239	-83.7997	f, m, C, D	H01P03	**G, Sent.**
South Fork Great Miami River (14-800-000)							
8	St. Rt. 638	12	40.4958	-83.7428	f, M, C, S	H01P01	**RR**
7.23	Co. Rd. 39	19.5	40.5015	-83.7529	f, m, C	H01W17	**G**
5.8	Co. Rd. 97	30	40.4944	-83.7778	F,M, C	H01512	**G, H**
3.95	Co. Rd. 96	47	40.4802	-83.8106	C, F,M, C, S	H01S11	**RR, Sent.**
1.74	Co. Rd. 38	51	40.4744	-83.8404	F,M, C, D	H01S10	**H**
Trib. to S. Fk. Great Miami R. (7.24) (14-800-002)							
0.01	Co. Rd. 39	7.4	40.5035	-83.7435	f, m, C	H01514	**G**
Liggit Ditch (14-800-003)							
0.53	Twp. Rd. 49	6.5	40.5038	-83.7677	f, M, C, S	H01515	**MR**
Van Horn Creek (14-804-000)							
0.97	St. Rt. 366	3	40.5163	-83.9268	f, m, c	H01P19	**H**

HUC 05080001 020							
Muchinippi Creek (14-700-000)							
12.5	Upst. U.S. Rt. 33	16	40.5578	-83.9592	f, m, C	201083	**G**
7.4	Co. Rd. 87	36	40.4994	-83.9806	F,M, C	201082	**G, H**
4.76	Myers Rd.	77	40.4683	-83.9572	F,M, C	H01P05	**G**
2.37	St. Rt. 274	85	40.4392	-83.9408	F,M, C, S	H01P07	**MR**
0.32	Co. Rd. 60, @ mouth	88	40.4172	-83.9253	C	H01P08	**Sent.**
Willow Creek (14-706-000)							
3.7	Dst. Wrestle Creek Rd. & dst. trib.	8.1	40.5414	-84.0302	f, m, C	H01K16	**G**
0.44	Idle Rd.	15.1	40.5134	-83.9902	f, m, C	H01K15	**G**
Trib. to Muchinippi Creek (12.66) (14-700-001)							
0.32	St. Rt. 196	6.8	40.5607	-83.9525	f, m, C, D	H01K17	**G, Sent.**
Little Muchinippi Creek (14-703-000)							
6.05	Wones Rd.	9.3	40.4679	-84.0689	f, m, C	H01K13	**G**
0.62	near mouth	35.2	40.4842	-83.9851	F,M, C, D	H01K12	**G**
Jackson Center Creek (14-705-000)							
2.9	Upst. 274 & Jackson Center	1.1	40.4396	-84.052	m,C	H01K14	**Ambient**
1.8	Lock Two Rd, dst. Jck.Ctr. WWTP	3	40.454	-84.0449	f, m, C	H01P1D	**H**

HUC 05080001 030							
Cherokee Mans Run (14-084-000)							
7.56	St. Rt. 117	8.5	40.4143	-83.8011	f, m, C	H01K11	**G**
3.5	U.S. Rt. 33	14.6	40.4389	-83.8289	f, M, C, S	H99Q04	**G, RR**
Trib. to Great Miami R. (157.34) (14-001-021)							
0.07	At mouth off SR 235	7.6	40.454	-83.9067	f, m, C	H01W16	**G**
Rum Creek (14-078-000)							
8.63	Wildermuth Rd.	8.2	40.4026	-84.0257	f, m, C	H01K09	**G**
6.58	Meranda Rd.	15.3	40.3906	-83.9992	f, m, C	H01K08	**G**
0.79	Co. Rd. 58	27.2	40.3766	-83.9346	F,M, C	H01K07	**G**
Rennick Creek (14-001-022)							
0.34	St. Rt. 235	10.3	40.4274	-80.9069	f, m, C	H01K02	**G**
Brandywine Creek (14-083-000)							
0.58	Notestine Rd. (upper crossing)	8.8	40.4099	-83.9318	f, m, C	H01K10	**G**
Bokengehalas Creek (14-076-000)							
12.24	CR 13, ust. spill				F, M		
8.1	Twp. Rd. 31, ust Blue Jacket Cr.	21	40.37	-83.8475	F,M, C	H01523	**G, H**
4.61	Twp. Rd. 209	36.3	40.3472	-83.8911	F,M, C	H01P15	**G, H**

1.13	Miami St. in DeGraff	41	40.31161	-83.912129	F, M, C, D	H01K01	**Sent.**
		Blue Jacket Creek (14-077-000)					
6.31	At Bellefontaine	3	40.3503	-83.8289	f,m,c	H01P11	**H**
5.5	CR 11, Bellfont. WWTP	7.8	40.34896	83.787544	f, m, C, D	H01P12	**G, H**
0.72	Twp. Rd. 31	13.7	40.3635	-83.8502	f, m, C	H01P14	**G, H**
		Possum Run (14-085-000)					
0.5	Bellefontaine WWTP	NA	40.35316	-83.7773	E	H01W07	**Effluent**
		HUC 05080001 040					
		McKees Creek (14-075-000)					
9.5	St. Rt. 245	3	40.3342	-83.7444	f, m, C	201069	**H**
5.94	Twp. Rd. 32	8.7	40.2993	-83.7773	f, m, C	H01K06	**G**
0.52	Co. Rd. 31	17.7	40.3106	-83.8556	f, M, C, S	H01506	**G, RR**
		Lee Creek (14-073-000)					
3.35	Friend Rd.	9.5	40.2683	-83.9267	f, m, C	H01K04	**G**
		Graves Creek (14-074-000)					
0.48	Twp. Rd. 295	10.9	40.2736	-83.8932	f, m, C	H01K05	**G**
		Stony Creek (14-072-000)					
2.45	Dst. St. Rt. 508 and trib.	35.4	40.2875	-83.8989	F,M, C	H01505	**G, H**
1.58	Twp. Rd. 65A	59.1	40.2908	-83.91	F,M, C, D	600010	**G**
		Indian Creek (14-069-000)					
0.01	At mouth (access?)	15.9	40.3187	-84.0152	f, m, C	H01K03	**G**
		Plum Creek (14-063-000)					
9	Meranda Rd.	7.8	40.3808	-84.1216	f, m, C	H02K11	**G**
5.22	Fort Loramie-Swanders Rd.	14.7	40.346	-84.1634	f, m, C	H02K10	**G**
0.13	Canal Feeder Rd.	29	40.3095	-84.1329	F,M, C	H02K09	**G**
		HUC 05080001 050					
		Loramie Creek (14-600-000)					
36.84	Botkins Rd.	6.8	40.4681	-84.1606	f, m, C	H08528	**G, H**
34.96	Lock Two Rd.	15.7	40.4531	-84.1872	f, m, C	H02W02	**G, H**
30.42	Hardin-Wapakoneta Rd.	35	40.415	-84.2436	F,M, C, D	H02527	**G, H**
22.1	@ Loramie Lake Dam	78	40.3575	-84.3583	D, F, M, C	H02S06	**H**
21.1	Lake Loramie SSD WWTP	NA	40.36198	-84.3691	E	H02E01	**Effluent**
20.7	St. Rt. 66	82	40.3591	-84.3739	F,M, C, D, E	H02W44	**G, H**
		Miami-Erie Canal (14-600-002)					
1.8	Minster WWTP	NA	40.38207	-84.3837	E	H02E02	**Effluent**

0.1	At mouth	4.3	40.3599	-84.3724	f, M, C, S, D	H02S14	**MR**
			Mile Creek (14-609-000)				
9.8	Goettemoeller Rd.	9.7	40.3611	-84.5348	f, m, C	H02K67	**G**
8.74	Clune Rd.	18.5	40.3583	-84.5151	f, m, C	H02K66	**G**
5.97	Kremer Rd.	34.7	40.3582	-84.4646	F,M, C	H02K05	**G**
0.5	St. Rt. 705	62.3	40.3492	-84.3869	F,M, C, D	H02P04	**G, Sent.**
			Spring Creek (14-609-001)				
0.37	Baumer-Brandewie Rd.	8.8	40.3414	-84.4253	f, m, C	H02K08	**G**
			HUC 05080001 060				
			Loramie Creek (14-600-000)				
18.82	Schlater Rd., Dst. WWTP (19.25)	148	40.3358	-84.3769	F,M, C	H02W45	**G**
16.51	Cardo-Roman Rd	152	40.3069	-84.3836	C, D	H02S24	**H, Sent.**
14.8	At Newport, SR 66	158	40.2931	-84.3725	F,M, C	201675	**H**
7.5	Loramie Washington Rd	205	40.2619	-84.2983	F,M, C	H02523	**H**
1.87	Fessler-Buxton Rd	257	40.2106	-84.2435	F, M, C, D	600320	**H, Sent.**
			Ninemile Creek (14-606-000)				
6.38	Miller Rd.	3	40.2375	-84.4144	f, M, C, S	H02513	**RR**
4.18	Range Line Rd.	11.5	40.2364	-84.3764	f, M, C, S	H02510	**G, RR**
0.23	Roeth Rd.	26.6	40.2542	-84.3286	F,M, C	H02K03	**G**
			Turtle Creek (14-603-000)				
ust 9.54	ust. SR 705				no sampling		
8.42	Mason Rd.	8.4	40.33	-84.2534	f, m, C	H02K02	**G**
5.66	Russell Rd.	17.3	40.3009	-84.2551	f, m, C	H02K01	**G**
0.43	Stangel Rd.	35.9	40.2358	-84.2483	F,M, C	H02P10	**G**

APPENDIX D

IBI Metric Scores for Headwater, Wading and Boat Method Sites in the Upper Great Miami River Basin, 2008

Preliminary IBI results from the Upper GMR survey, sampled in 2008.

River Mile	Type	Date	Drainage area (sq mi)	Number of: Total species	Sunfish species	Sucker species	Intolerant species	Percent of Individuals: Rnd-bodied suckers	Simple Lithophils	Tolerant fishes	Omni-vores	Top carnivores	Insect-ivores	DELT anomalies	Rel.No. minus tolerants /(1.0 km)		IBI	Modified Iwb
Great Miami River - (14-001)																		
Year: 2008																		
157.20	A	07/21/2008	131	17(3)	4(5)	5(3)	0(1)	10(1)	12(1)	32(1)	33(1)	21(5)	37(3)	1.2(3)	222(3)		30	7.0
153.50	A	07/21/2008	247	11(3)	3(3)	3(3)	0(1)	64(5)	64(5)	22(3)	16(5)	4(1)	76(5)	4.0(1)	118(1)	*	36	6.8
153.50	A	08/18/2008	247	19(3)	2(3)	6(5)	0(1)	37(3)	44(3)	27(3)	25(3)	7(3)	61(5)	0.0(5)	244(3)		40	8.7
146.20	A	07/23/2008	296	23(5)	6(5)	5(3)	0(1)	27(3)	28(3)	21(3)	13(5)	10(5)	73(5)	1.0(3)	334(3)		44	8.7
146.20	A	09/02/2008	296	30(5)	5(5)	6(5)	2(3)	36(3)	42(3)	27(3)	22(3)	13(5)	59(5)	0.5(5)	278(3)		48	9.2
143.20	A	07/22/2008	405	24(5)	4(5)	6(5)	4(5)	57(5)	62(5)	5(5)	5(5)	12(5)	76(5)	0.4(5)	514(5)		60	9.8
143.20	A	08/26/2008	405	28(5)	6(5)	6(5)	4(5)	61(5)	68(5)	2(5)	2(5)	10(3)	86(5)	0.0(5)	713(5)		58	9.8
142.50	A	07/22/2008	406	19(3)	2(3)	5(3)	4(5)	65(5)	73(5)	3(5)	4(5)	11(5)	82(5)	0.0(5)	467(5)		54	9.6
142.50	A	08/28/2008	406	23(5)	2(3)	5(3)	5(5)	66(5)	79(5)	2(5)	3(5)	5(3)	91(5)	0.0(5)	814(5)		54	10.2
138.40	A	07/22/2008	429	24(5)	3(3)	5(3)	4(5)	49(5)	61(5)	7(5)	6(5)	10(5)	81(5)	0.3(5)	560(5)		56	9.9
138.40	A	09/04/2008	429	25(5)	3(3)	6(5)	5(5)	59(5)	68(5)	4(5)	4(5)	9(3)	85(5)	0.0(5)	694(5)		56	9.6
130.00	A	07/22/2008	541	26(5)	4(5)	5(3)	5(5)	45(5)	59(5)	4(5)	4(5)	16(5)	74(5)	0.6(3)	662(5)		56	10.2
130.00	A	09/02/2008	541	24(5)	3(3)	5(3)	4(5)	46(5)	56(5)	3(5)	5(5)	19(5)	71(5)	0.3(5)	648(5)		56	10.3

♦ - IBI is low end adjusted.

* - < 200 Total individuals in sample

** - < 50 Total individuals in sample

River Mile	Type	Date	Drainage area (sq mi)	Number of: Total species	Sunfish species	Sucker species	Intolerant species	Darter species	Percent of Individuals: Simple Lithophils	Tolerant fishes	Omni-vores	Top carnivores	Insect-ivores	DELT anomalies	Rel.No. minus tolerants /(0.3km)		IBI	Modified Iwb
Great Miami River - (14001)																		
Year: 2008																		
158.90	D	07/29/2008	118	32(5)	8(5)	5(5)	1(1)	5(3)	13(1)	13(5)	34(3)	3.5(3)	31(3)	0.0(5)	1713(5)		44	10.6
158.90	D	08/21/2008	118	32(5)	6(5)	6(5)	1(1)	5(3)	15(1)	14(5)	43(1)	6.6(5)	35(3)	0.0(5)	1335(5)		44	10.6
157.20	D	09/02/2008	131	31(5)	6(5)	5(5)	1(1)	5(3)	21(3)	25(3)	14(5)	18.3(5)	61(5)	0.4(5)	282(3)		48	8.6
Plum Creek - (14063)																		
Year: 2008																		
0.10	E	07/22/2008	29	22(5)	2(3)	2(3)	1(1)	5(5)	31(3)	42(3)	39(1)	2.5(3)	39(3)	0.0(5)	650(3)		38	8.1
0.10	E	09/02/2008	29	21(5)	4(5)	2(3)	0(1)	5(5)	16(1)	39(3)	36(1)	0.7(1)	35(3)	0.0(5)	1026(5)		38	8.5
Stony Creek - (14072)																		
Year: 2008																		
2.50	D	07/21/2008	35	28(5)	3(3)	5(5)	4(5)	7(5)	55(5)	16(5)	14(5)	1.9(3)	82(5)	0.0(5)	933(5)		56	9.7
2.50	D	08/25/2008	35	26(5)	3(3)	3(3)	3(3)	7(5)	50(5)	29(3)	27(3)	0.6(1)	69(5)	0.0(5)	1226(5)		46	9.5
1.60	D	07/21/2008	59	21(5)	3(3)	6(5)	0(1)	4(3)	49(5)	18(5)	19(3)	8.9(5)	70(5)	0.0(5)	111(1)	*	46	7.9
1.60	D	09/02/2008	59	22(5)	4(5)	5(5)	2(1)	6(5)	75(5)	13(5)	11(5)	4.0(3)	84(5)	0.0(5)	200(1)		50	7.9
Bokengehalas Creek - (14076)																		
Year: 2008																		
8.10	E	07/16/2008	20	17(5)	2(3)	1(1)	1(1)	5(5)	30(3)	66(1)	18(5)	2.0(3)	36(3)	0.0(5)	172(1)		36	6.3
8.10	E	08/04/2008	20	13(3)	1(1)	2(3)	0(1)	5(5)	19(3)	68(1)	15(5)	0.4(1)	36(3)	0.0(5)	166(1)		32	5.6
4.60	E	07/16/2008	36	21(5)	2(3)	2(3)	5(5)	5(5)	51(5)	32(3)	18(5)	1.7(3)	53(3)	0.0(5)	497(3)		48	8.8
4.60	D	08/27/2008	36	24(5)	3(3)	3(3)	5(5)	5(5)	50(5)	37(3)	16(5)	1.0(3)	51(3)	0.0(5)	471(3)		48	8.3
1.10	D	07/16/2008	40	19(3)	2(3)	2(3)	4(3)	5(5)	64(5)	7(5)	1(5)	4.9(3)	81(5)	0.0(5)	258(3)		48	8.0
1.10	D	08/27/2008	40	23(5)	2(3)	5(5)	4(3)	5(5)	66(5)	14(5)	11(5)	2.6(3)	77(5)	0.0(5)	648(3)		52	9.5
Rum Creek - (14078)																		
Year: 2008																		

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: Total species	Sunfish species	Sucker species	Intolerant species	Darter species	Percent of Individuals: Simple Lithophils	Tolerant fishes	Omni-vores	Top carnivores	Insect-ivores	DELT anomalies	Rel.No. minus tolerants /(0.3km)	IBI	Modified Iwb
0.80	D	07/16/2008	27	19(5)	3(3)	3(5)	1(1)	6(5)	35(3)	34(3)	31(3)	4.3(3)	63(5)	0.0(5)	528(3)	44	7.6
0.80	D	08/27/2008	27	18(5)	4(5)	2(3)	0(1)	6(5)	27(3)	32(3)	27(3)	5.4(5)	67(5)	0.0(5)	285(3)	46	7.5
Loramie Creek - (14600)																	
Year: 2008																	
30.40	D	07/07/2008	35	9(1)	3(3)	1(1)	0(1)	0(1)	8(1)	32(3)	19(3)	6.5(5)	69(5)	0.0(5)	141(1)	30	6.8
30.40	D	09/04/2008	35	13(3)	5(5)	1(1)	0(1)	0(1)	0(1)	4(5)	85(1)	1.7(3)	12(1)	0.0(5)	909(5)	32	7.4
22.10	D	07/07/2008	77	23(5)	6(5)	3(3)	0(1)	1(1)	5(1)	29(3)	9(5)	4.0(3)	81(5)	0.0(5)	824(5)	42	9.4
22.10	D	08/21/2008	77	22(5)	5(5)	6(5)	0(1)	0(1)	2(1)	17(5)	15(5)	2.0(3)	70(5)	0.9(3)	1149(5)	44	9.6
20.70	D	07/07/2008	82	21(3)	6(5)	4(5)	1(1)	1(1)	2(1)	62(1)	9(5)	1.0(3)	83(5)	0.0(5)	392(3)	38	7.7
20.70	D	08/23/2008	82	16(3)	5(5)	4(5)	0(1)	1(1)	8(1)	33(3)	16(5)	2.2(3)	63(5)	0.0(5)	462(3)	40	8.6
19.30	D	09/04/2008	147	18(3)	4(5)	3(3)	0(1)	1(1)	8(1)	34(3)	6(5)	1.2(3)	88(5)	0.0(5)	402(3)	38	8.5
18.80	D	07/08/2008	148	17(3)	5(5)	4(3)	0(1)	1(1)	7(1)	47(1)	28(3)	1.6(3)	62(5)	0.0(5)	194(1)	32	8.0
18.80	D	09/02/2008	148	18(3)	6(5)	3(3)	0(1)	0(1)	7(1)	33(3)	22(3)	4.4(3)	69(5)	0.0(5)	225(3)	36	7.8
14.80	D	07/08/2008	157	21(3)	3(3)	4(3)	1(1)	2(1)	31(3)	47(1)	20(3)	1.9(3)	70(5)	0.0(5)	663(3)	34	9.1
14.80	D	08/26/2008	157	26(5)	6(5)	3(3)	0(1)	2(1)	23(3)	64(1)	24(3)	1.4(3)	71(5)	0.0(5)	869(5)	40	9.0
7.50	D	07/22/2008	205	24(5)	6(5)	4(3)	2(1)	2(1)	28(3)	51(1)	19(3)	4.1(3)	72(5)	0.0(5)	288(3)	38	9.0
7.50	D	08/23/2008	205	18(3)	6(5)	4(3)	0(1)	2(1)	23(3)	43(1)	5(5)	4.5(3)	79(5)	0.0(5)	546(3)	38	9.6
1.90	D	07/29/2008	257	35(5)	7(5)	5(5)	5(3)	7(5)	45(5)	25(3)	19(3)	4.2(3)	70(5)	0.0(5)	1002(5)	52	10.3
1.90	D	08/26/2008	257	27(5)	5(5)	5(5)	4(3)	5(3)	52(5)	14(5)	10(5)	6.8(5)	76(5)	0.0(5)	665(3)	54	10.2
Turtle Creek - (14603)																	
Year: 2008																	
0.40	D	07/22/2008	35	22(5)	4(5)	3(3)	1(1)	4(3)	56(5)	37(3)	24(3)	4.5(3)	63(5)	0.0(5)	374(3)	44	8.6
0.40	D	08/26/2008	35	25(5)	4(5)	3(3)	3(3)	6(5)	40(5)	37(3)	22(3)	5.2(5)	63(5)	0.0(5)	420(3)	50	9.2
Ninemile Creek - (14606)																	
Year: 2008																	

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: Total species	Sunfish species	Sucker species	Intolerant species	Darter species	Percent of Individuals: Simple Lithophils	Tolerant fishes	Omni-vores	Top carnivores	Insect-ivores	DELT anomalies	Rel.No. minus tolerants /(0.3km)		IBI	Modified Iwb
0.20	D	07/08/2008	26	22(5)	5(5)	2(3)	0(1)	4(5)	31(3)	44(3)	21(3)	5.3(5)	62(5)	0.0(5)	633(3)		46	9.3
0.20	D	08/26/2008	26	19(5)	3(3)	3(5)	0(1)	4(5)	23(3)	45(3)	20(3)	6.0(5)	51(3)	0.0(5)	335(3)		44	8.7
Mile Creek - (14609)																		
Year: 2008																		
6.00	E	07/28/2008	34	18(3)	3(3)	2(3)	0(1)	0(1)	1(1)	73(1)	50(1)	0.0(1)	49(3)	0.0(5)	684(3)		26	8.0
6.00	E	09/04/2008	34	19(5)	4(5)	2(3)	0(1)	0(1)	5(1)	44(3)	35(1)	0.3(1)	64(5)	0.6(3)	1662(5)		34	9.1
0.50	D	07/28/2008	62	16(3)	5(5)	4(5)	0(1)	0(1)	2(1)	68(1)	14(5)	0.0(1)	84(5)	0.0(5)	209(3)		36	6.5
0.50	D	08/20/2008	62	19(3)	5(5)	2(3)	0(1)	0(1)	1(1)	47(1)	27(3)	0.2(1)	69(5)	0.2(3)	843(5)		32	8.7
Muchinippi Creek - (14700)																		
Year: 2008																		
7.40	E	07/23/2008	36	20(5)	2(3)	3(3)	3(3)	4(3)	65(5)	18(5)	9(5)	5.7(5)	77(5)	0.0(5)	776(5)		52	8.8
7.40	E	08/20/2008	36	23(5)	3(3)	3(3)	3(3)	5(5)	35(3)	56(1)	16(5)	2.1(3)	40(3)	0.0(5)	638(3)		42	8.5
4.80	D	07/23/2008	77	25(5)	4(5)	3(3)	3(3)	5(5)	57(5)	29(3)	14(5)	2.8(3)	71(5)	0.0(5)	785(5)		52	8.5
4.80	D	08/19/2008	77	23(5)	5(5)	3(3)	1(1)	6(5)	21(3)	71(1)	55(1)	2.7(3)	29(3)	0.0(5)	453(3)		38	7.9
2.40	D	07/23/2008	85	17(3)	4(5)	2(3)	0(1)	0(1)	14(1)	27(3)	7(5)	9.2(5)	82(5)	0.0(5)	108(1)	*	38	7.0
2.40	D	08/19/2008	85	14(3)	3(3)	3(3)	0(1)	1(1)	17(1)	38(3)	18(5)	2.7(3)	77(5)	0.0(5)	138(1)		34	6.2
L. Muchinippi Creek - (14703)																		
Year: 2008																		
0.60	E	07/23/2008	35	19(5)	3(3)	2(3)	1(1)	5(5)	34(3)	54(1)	38(1)	0.8(1)	45(3)	0.0(5)	830(5)		36	8.1
0.60	E	08/20/2008	35	14(3)	2(3)	0(1)	1(1)	5(5)	15(1)	64(1)	57(1)	0.2(1)	37(3)	0.0(5)	930(5)		30	7.3
S. Fk. Great Miami R - (14800)																		
Year: 2008																		
5.80	D	07/22/2008	29	24(5)	3(3)	3(3)	0(1)	5(5)	47(5)	50(1)	27(3)	1.3(3)	44(3)	0.0(5)	452(3)		40	8.6
5.80	D	08/19/2008	29	26(5)	3(3)	4(5)	0(1)	5(5)	23(3)	43(3)	23(3)	1.2(3)	43(3)	0.0(5)	1487(5)		44	9.8
4.00	D	07/18/2008	47	19(3)	2(3)	2(3)	0(1)	5(5)	44(5)	11(5)	1(5)	0.7(1)	66(5)	0.0(5)	1118(5)		46	8.7

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: Total species	Sunfish species	Sucker species	Intolerant species	Darter species	Percent of Individuals: Simple Lithophils	Tolerant fishes	Omni-vores	Top carnivores	Insect-ivores	DELT anomalies	Rel.No. minus tolerants /(0.3km)	IBI	Modified Iwb
4.00	D	08/18/2008	47	23(5)	3(3)	2(3)	1(1)	6(5)	37(5)	21(5)	8(5)	0.3(1)	42(3)	0.0(5)	1589(5)	46	9.1
1.80	D	07/21/2008	51	17(3)	3(3)	2(3)	0(1)	4(3)	49(5)	18(5)	15(5)	3.3(3)	76(5)	0.0(5)	482(3)	44	7.6
1.80	D	08/18/2008	51	23(5)	2(3)	3(3)	0(1)	5(5)	50(5)	16(5)	23(3)	2.5(3)	70(5)	0.0(5)	768(5)	48	8.7

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.

Preliminary IBI results from the Upper GMR survey, sampled in 2008.

River Mile	Type	Date	Drainage area (sq mi)	Number of: Total species	Minnow species	Headwater species	Sensitive species	Darter & Sculpin species	Simple Lithophils	Percent of Individuals: Tolerant fishes	Omni-vores	Pioneering fishes	Insect-ivores	DELT anomalies	Rel.No. minus tolerants /(0.3km)	IBI
Plum Creek - (14-063)																
Year: 2008																
9.00	E	08/20/2008	7.8	17(5)	6(5)	2(3)	4(3)	5(5)	7(5)	89(1)	68(1)	87(1)	9(1)	0.0(5)	940(5)	40
5.20	E	08/13/2008	14.7	19(5)	7(5)	2(3)	3(3)	5(5)	6(3)	70(1)	63(1)	71(1)	22(1)	0.0(5)	1964(5)	38
Indian Creek - (14-069)																
Year: 2008																
0.10	E	08/14/2008	15.9	20(5)	9(5)	2(3)	5(3)	3(3)	6(3)	29(5)	24(3)	28(5)	38(3)	0.0(5)	1116(5)	48
Lee Creek - (14-073)																
Year: 2008																
3.40	E	08/11/2008	9.5	13(3)	3(1)	3(3)	3(3)	5(5)	6(5)	34(5)	2(5)	19(5)	65(5)	0.0(5)	622(3)	48
Graves Creek - (14-074)																
Year: 2008																
0.50	E	07/16/2008	10.9	15(5)	5(3)	3(3)	4(3)	7(5)	8(5)	47(3)	11(5)	18(5)	36(3)	0.0(5)	384(3)	48
McKees Creek - (14-075)																
Year: 2008																
9.50	E	07/09/2008	3.0	9(3)	4(3)	4(5)	1(1)	3(5)	5(5)	39(3)	1(5)	17(5)	39(5)	0.0(5)	526(5)	50
5.90	E	07/10/2008	8.7	15(5)	4(3)	4(5)	4(3)	5(5)	7(5)	60(1)	4(5)	41(3)	36(3)	0.0(5)	310(3)	46
0.50	E	07/10/2008	17.7	11(3)	6(3)	2(3)	4(3)	3(3)	7(5)	22(5)	10(5)	10(5)	53(5)	0.0(5)	480(3)	48
Bokengehalas Creek - (14-076)																
Year: 2008																
12.20	E	08/04/2008	4.8	9(3)	3(3)	3(3)	1(1)	4(5)	3(3)	40(3)	0(5)	8(5)	55(5)	0.0(5)	858(5)	46
Blue Jacket Creek - (14-077)																
Year: 2008																
6.30	E	07/09/2008	2.9	8(3)	3(3)	2(3)	0(1)	2(3)	2(3)	51(3)	0(5)	33(3)	16(3)	0.0(5)	360(5)	40
5.50	E	07/09/2008	3.9	9(3)	4(3)	2(3)	2(3)	3(5)	4(3)	47(3)	2(5)	16(5)	8(1)	0.0(5)	1150(5)	44
0.70	E	07/10/2008	13.6	19(5)	7(5)	2(3)	6(5)	5(5)	8(5)	19(5)	4(5)	16(5)	23(3)	0.0(5)	1906(5)	56
Rum Creek - (14-078)																
Year: 2008																

♦ - IBI is low end adjusted.

* - < 200 Total individuals in sample

** - < 50 Total individuals in sample

● - One or more species excluded from IBI calculation.

Preliminary IBI results from the Upper GMR survey, sampled in 2008.

River Mile	Type	Date	Drainage area (sq mi)	Number of: Total species	Minnow species	Headwater species	Sensitive species	Darter & Sculpin species	Simple Lithophils	Percent of Individuals: Tolerant fishes	Omni-vores	Pioneering fishes	Insect-ivores	DELT anomalies	Rel.No. minus tolerants /(0.3km)	IBI
8.60	E	07/16/2008	8.2	10(3)	3(1)	0(1)	1(1)	0(1)	2(1)	83(1)	17(3)	76(1)	83(5)	0.0(5)	108(1)	24
6.60	E	07/16/2008	15.3	14(3)	6(3)	1(1)	4(3)	4(3)	3(1)	52(3)	49(1)	71(1)	50(5)	0.0(5)	388(3)	32
Brandywine Creek - (14-083)																
Year: 2008																
0.60	E	07/16/2008	8.8	23(5)	7(5)	2(3)	4(3)	6(5)	5(3)	33(5)	29(1)	33(3)	63(5)	0.0(5)	1011(5)	48
Cherokee Mans Run - (14-084)																
Year: 2008																
7.60	E	07/14/2008	8.5	13(3)	5(3)	3(3)	3(3)	3(3)	7(5)	21(5)	2(5)	20(5)	70(5)	0.0(5)	470(3)	48
3.50	E	07/15/2008	14.6	15(3)	7(5)	3(3)	4(3)	4(3)	7(5)	38(3)	13(5)	24(5)	29(3)	0.0(5)	1108(5)	48
GMR trib. 157.34 - (14-092)																
Year: 2008																
0.10	D	08/13/2008	7.6	20(5)	1(1)	0(1)	1(1)	0(1)	2(1)	21(5)	65(1)	4(5)	23(3)	0.0(5)	1386(5)	34
Rennick Creek - (14-199)																
Year: 2008																
0.30	E	07/16/2008	10.3	12(3)	2(1)	1(1)	0(1)	2(3)	2(1)	70(1)	31(1)	46(3)	55(5)	0.0(5)	44(1) *	26
Loramie Creek - (14-600)																
Year: 2008																
36.80	E	08/12/2008	6.8	12(3)	4(3)	0(1)	0(1)	1(1)	1(1)	57(1)	38(1)	42(3)	29(3)	0.0(5)	386(3)	26
35.00	E	08/12/2008	15.9	13(3)	4(3)	0(1)	0(1)	0(1)	1(1)	47(3)	29(3)	21(5)	63(5)	0.0(5)	222(3)	34
Turtle Creek - (14-603)																
Year: 2008																
8.40	E	08/11/2008	8.4	13(3)	6(3)	0(1)	0(1)	1(1)	2(1)	62(1)	36(1)	61(1)	34(3)	0.0(5)	160(1)	22
5.70	E	08/11/2008	17.3	21(5)	8(5)	2(3)	5(3)	6(5)	9(5)	43(3)	12(5)	32(3)	41(3)	0.0(5)	536(3)	48
Ninemile Creek - (14-606)																
Year: 2008																
6.40	E	07/30/2008	3.0	5(3)	3(3)	0(1)	0(1)	1(1)	0(1)	58(1)	46(1)	33(3)	42(5)	0.0(5)	146(3)	28
4.20	E	07/30/2008	11.5	12(3)	5(3)	0(1)	3(3)	2(3)	5(3)	74(1)	25(3)	54(3)	15(1)	0.0(5)	68(1)	30
Mile Creek - (14-609)																

♦ - IBI is low end adjusted.

* - < 200 Total individuals in sample

** - < 50 Total individuals in sample

● - One or more species excluded from IBI calculation.

Preliminary IBI results from the Upper GMR survey, sampled in 2008.

River Mile	Type	Date	Drainage area (sq mi)	Number of: Total species	Minnow species	Headwater species	Sensitive species	Darter & Sculpin species	Simple Lithophils	Percent of Individuals: Tolerant fishes	Omni-vores	Pioneering fishes	Insect-ivores	DELT anomalies	Rel.No. minus tolerants /(0.3km)	IBI
Year: 2008																
9.80	E	07/30/2008	9.7	6(1)	4(3)	0(1)	1(1)	0(1)	0(1)	29(5)	22(3)	27(5)	72(5)	0.0(5)	496(3)	34
8.70	E	07/30/2008	18.5	14(3)	6(3)	0(1)	2(1)	3(3)	3(1)	69(1)	68(1)	58(1)	32(3)	0.0(5)	554(3)	26
Spring Creek - (14-615)																
Year: 2008																
0.40	E	07/30/2008	8.8	16(5)	6(3)	0(1)	3(3)	2(3)	5(3)	88(1)	59(1)	78(1)	33(3)	0.0(5)	428(3)	32
Muchinippi Creek - (14-700)																
Year: 2008																
12.50	E	07/02/2008	16.0	13(3)	5(3)	1(1)	1(1)	0(1)	2(1)	34(3)	14(5)	24(5)	75(5)	0.0(5)	314(3)	36
L. Muchinippi Creek - (14-703)																
Year: 2008																
6.10	E	08/12/2008	9.3	17(5)	6(3)	0(1)	2(1)	4(5)	5(3)	49(3)	31(1)	53(3)	43(5)	0.0(5)	2574(5)	40
Jackson Center Creek - (14-705)																
Year: 2008																
2.90	E	07/17/2008	1.1	9(5)	3(3)	0(1)	0(1)	2(5)	2(3)	76(1)	56(1)	82(1)	29(5)	0.0(5)	150(5)	36
1.80	E	07/17/2008	3.4	9(3)	4(3)	0(1)	1(1)	1(1)	1(1)	54(3)	26(1)	52(3)	50(5)	0.0(5)	498(5)	32
Willow Creek - (14-706)																
Year: 2008																
3.70	E	07/17/2008	8.1	9(3)	4(3)	0(1)	0(1)	0(1)	2(1)	23(5)	16(3)	10(5)	73(5)	0.0(5)	280(3)	36
0.40	E	08/05/2008	15.1	15(3)	5(3)	1(1)	4(3)	4(3)	5(3)	37(3)	33(1)	29(5)	63(5)	0.0(5)	676(3)	38
Muchinippi trib 12.6 - (14-708)																
Year: 2008																
0.30	E	07/02/2008	6.8	18(5)	8(5)	0(1)	4(3)	2(3)	5(3)	39(3)	25(3)	33(3)	58(5)	0.0(5)	628(3)	42
S. Fk. Great Miami R - (14-800)																
Year: 2008																
8.00	E	07/15/2008	11.6	22(5)	8(5)	3(3)	5(3)	7(5)	8(5)	23(5)	6(5)	28(5)	35(3)	0.0(5)	1138(5)	54
7.20	D	08/05/2008	19.5	21(5)	6(3)	3(3)	6(3)	7(5)	8(5)	24(5)	7(5)	22(5)	46(3)	0.0(5)	1400(5)	52
7.20	D	09/04/2008	19.5	21(5)	6(3)	2(3)	6(3)	6(5)	8(5)	31(3)	17(5)	28(5)	30(3)	0.0(5)	1472(5)	50

♦ - IBI is low end adjusted.

* - < 200 Total individuals in sample

** - < 50 Total individuals in sample

● - One or more species excluded from IBI calculation.

Preliminary IBI results from the Upper GMR survey, sampled in 2008.

River Mile	Type	Date	Drainage area (sq mi)	Number of: Total species	Minnow species	Headwater species	Sensitive species	Darter & Sculpin species	Simple Lithophils	Percent of Individuals: Tolerant fishes	Omni-vores	Pioneering fishes	Insect-ivores	DELT anomalies	Rel.No. minus tolerants /(0.3km)	IBI
Liggitt Ditch - (14-801)																
Year: 2008																
0.50	E	07/01/2008	6.5	16(5)	6(5)	2(3)	2(1)	5(5)	6(5)	49(3)	23(3)	60(1)	35(3)	0.0(5)	1024(5)	44
N. Fk. Great Miami R - (14-802)																
Year: 2008																
10.70	E	07/02/2008	9.0	18(5)	8(5)	0(1)	3(3)	4(5)	6(5)	83(1)	51(1)	79(1)	19(1)	0.0(5)	328(3)	36
6.30	E	08/05/2008	14.4	16(5)	6(3)	0(1)	2(1)	3(3)	4(3)	53(3)	36(1)	55(3)	31(3)	0.0(5)	1140(5)	36
Van Horn Creek - (14-804)																
Year: 2008																
1.00	E	07/01/2008	2.8	15(5)	6(5)	1(1)	1(1)	1(1)	3(3)	66(1)	28(1)	41(3)	25(3)	0.0(5)	492(5)	34
S. Fk. GMR trib 7.24 - (14-805)																
Year: 2008																
0.50	E	07/15/2008	7.2	16(5)	6(5)	2(3)	2(1)	5(5)	6(5)	32(5)	4(5)	30(3)	49(5)	0.0(5)	562(3)	50
S. Fk. GMR trib 5.27 - (14-806)																
Year: 2008																
0.50	E	07/31/2008	11.4	21(5)	6(3)	3(3)	5(3)	7(5)	9(5)	26(5)	9(5)	25(5)	32(3)	0.0(5)	2094(5)	52
Miami-Erie Canal - (14-999)																
Year: 2008																
0.10	E	08/13/2008	4.3	8(3)	4(3)	0(1)	2(3)	1(1)	2(1)	67(1)	46(1)	64(1)	53(5)	0.0(5)	190(3)	28

♦ - IBI is low end adjusted.

* - < 200 Total individuals in sample

** - < 50 Total individuals in sample

● - One or more species excluded from IBI calculation.

APPENDIX E

Fish Species Lists by Site from the Upper Great Miami River Basin, 2008

River Code: **14-001**	Stream: **Great Miami River**	Sample Date: **2008**
River Mile: **158.90**	Location:	Date Range: 07/29/2008
Time Fished: 4200 sec	Drainage: 118.0 sq mi	Thru: 08/21/2008
Dist Fished: 0.40 km	Basin: Great Miami 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		586	439.50	25.31	83.27	35.23	189.47
Quillback	C	O	M		36	27.00	1.56	26.70	11.30	988.92
Golden Redhorse	R	I	S	M	11	8.25	0.48	4.77	2.02	577.73
Shorthead Redhorse	R	I	S	M	2	1.50	0.09	0.09	0.04	57.00
Northern Hog Sucker	R	I	S	M	30	22.50	1.30	1.21	0.51	53.77
White Sucker	W	O	S	T	52	39.00	2.25	7.67	3.25	196.71
Spotted Sucker	R	I	S		10	7.50	0.43	3.41	1.44	454.40
Smallmouth Redhorse	R	I	S	M	1	0.75	0.04	0.03	0.01	42.00
Common Carp	G	O	M	T	43	32.25	1.86	60.51	25.60	1,876.34
Creek Chub	N	G	N	T	3	2.25	0.13	0.00	0.00	1.33
Spotfin Shiner	N	I	M		52	39.00	2.25	0.21	0.09	5.25
Sand Shiner	N	I	M	M	8	6.00	0.35	0.01	0.01	2.13
Fathead Minnow	N	O	C	T	1	0.75	0.04	0.00	0.00	3.00
Bluntnose Minnow	N	O	C	T	152	114.00	6.57	0.35	0.15	3.07
Central Stoneroller	N	H	N		116	87.00	5.01	0.22	0.09	2.49
Channel Catfish	F		C		335	251.25	14.47	25.65	10.85	102.07
Yellow Bullhead		I	C	T	36	27.00	1.56	1.84	0.78	67.96
Brook Silverside		I	M	M	46	34.50	1.99	0.03	0.01	0.87
White Bass	F	P	M		3	2.25	0.13	1.04	0.44	463.33
White Crappie	S	I	C		10	7.50	0.43	0.43	0.18	57.80
Black Crappie	S	I	C		10	7.50	0.43	0.53	0.23	70.90
Rock Bass	S	C	C		1	0.75	0.04	0.01	0.00	11.00
Smallmouth Bass	F	C	C	M	2	1.50	0.09	0.08	0.04	55.50
Largemouth Bass	F	C	C		57	42.75	2.46	1.95	0.82	45.59
Green Sunfish	S	I	C	T	20	15.00	0.86	0.75	0.32	50.25
Bluegill Sunfish	S	I	C	P	179	134.25	7.73	5.32	2.25	39.64
Orangespotted Sunfish	S	I	C		96	72.00	4.15	0.61	0.26	8.49
Longear Sunfish	S	I	C	M	1	0.75	0.04	0.03	0.01	40.00
Pumpkinseed Sunfish	S	I	C	P	10	7.50	0.43	0.22	0.09	29.90
Green Sf X Bluegill Sf					6	4.50	0.26	0.19	0.08	41.50
Yellow Perch			M		110	82.50	4.75	0.37	0.16	4.54
Blackside Darter	D	I	S		21	15.75	0.91	0.05	0.02	3.31
Logperch	D	I	S	M	86	64.50	3.71	0.33	0.14	5.11
Greenside Darter	D	I	S	M	97	72.75	4.19	0.14	0.06	1.91
Banded Darter	D	I	S	I	9	6.75	0.39	0.01	0.01	1.89
Rainbow Darter	D	I	S	M	4	3.00	0.17	0.00	0.00	1.00
Sauger X Walleye	E	P			50	37.50	2.16	8.29	3.51	221.16
Mottled Sculpin		I	C		23	17.25	0.99	0.03	0.01	1.61
	Mile Total				2,315	1,736.25		236.37		
	Number of Species				36					
	Number of Hybrids				2					

River Code: **14-001**	Stream: **Great Miami River**	Sample Date: **2008**
River Mile: **157.20**	Location: St. Rt. 235	Date Range: 07/21/2008
Time Fished: 4782 sec	Drainage: 131.0 sq mi	Thru: 09/02/2008
Dist Fished: 0.70 km	Basin: Great Miami 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
Gizzard Shad		O	M		21	18.50	5.26	2.20	2.86	118.29
Northern Pike	F	P	M		4	3.25	0.92	0.33	0.43	104.75
Golden Redhorse	R	I	S	M	17	14.75	4.19	6.11	7.96	423.59
Northern Hog Sucker	R	I	S	M	3	2.50	0.71	0.37	0.48	126.00
White Sucker	W	O	S	T	17	13.50	3.84	4.75	6.18	348.12
Spotted Sucker	R	I	S		8	7.50	2.13	2.00	2.60	287.38
Smallmouth Redhorse	R	I	S	M	2	1.75	0.50	0.04	0.05	22.50
Common Carp	G	O	M	T	49	46.75	13.28	42.04	54.74	935.04
Golden Shiner	N	I	M	T	1	1.00	0.28	0.00	0.00	1.00
Suckermouth Minnow	N	I	S		2	1.50	0.43	0.00	0.01	2.50
Spotfin Shiner	N	I	M		2	1.75	0.50	0.01	0.01	2.50
Bluntnose Minnow	N	O	C	T	2	1.50	0.43	0.00	0.00	1.00
Channel Catfish	F		C		20	17.25	4.90	6.12	7.97	371.25
Yellow Bullhead		I	C	T	10	7.75	2.20	1.31	1.71	170.90
Brown Bullhead		I	C	T	3	2.25	0.64	0.18	0.23	80.00
Black Bullhead		I	C	P	3	2.25	0.64	0.42	0.54	184.67
Blackstripe Topminnow		I	M		1	0.75	0.21	0.00	0.00	4.00
Brook Silverside		I	M	M	2	1.50	0.43	0.00	0.00	1.00
White Bass	F	P	M		1	0.75	0.21	0.01	0.01	12.00
White Crappie	S	I	C		1	0.75	0.21	0.01	0.02	19.00
Black Crappie	S	I	C		2	1.75	0.50	0.03	0.04	21.00
Largemouth Bass	F	C	C		11	9.25	2.63	1.11	1.44	125.00
Green Sunfish	S	I	C	T	34	27.25	7.74	0.32	0.42	12.00
Bluegill Sunfish	S	I	C	P	91	76.00	21.59	1.48	1.93	19.05
Orangespotted Sunfish	S	I	C		4	3.50	0.99	0.02	0.02	5.50
Longear Sunfish	S	I	C	M	2	1.50	0.43	0.03	0.03	16.50
Green Sf X Bluegill Sf					5	4.25	1.21	0.18	0.23	46.40
Yellow Perch			M		8	7.00	1.99	0.16	0.21	20.63
Blackside Darter	D	I	S		1	0.75	0.21	0.00	0.00	3.00
Logperch	D	I	S	M	7	5.25	1.49	0.02	0.02	3.00
Greenside Darter	D	I	S	M	10	7.50	2.13	0.01	0.02	1.90
Banded Darter	D	I	S	I	3	2.25	0.64	0.00	0.00	1.00
Rainbow Darter	D	I	S	M	3	2.25	0.64	0.00	0.00	1.00
Sauger X Walleye	E	P			64	55.25	15.70	7.55	9.83	132.03
Mottled Sculpin		I	C		1	0.75	0.21	0.00	0.00	2.00
	Mile Total				415	352.00		76.81		
	Number of Species				33					
	Number of Hybrids				2					

River Code: **14-001**	Stream: **Great Miami River**	Sample Date: **2008**
River Mile: **153.50**	Location: Notestine Rd.	Date Range: 07/21/2008
Time Fished: 5194 sec	Drainage: 247.0 sq mi	Thru: 08/18/2008
Dist Fished: 1.00 km	Basin: Great Miami 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		19	19.00	7.82	0.08	0.09	4.21
Redfin Pickerel		P	M	P	1	1.00	0.41	0.02	0.02	16.00
Northern Pike	F	P	M		3	3.00	1.23	3.27	3.60	1,088.33
Quillback	C	O	M		5	5.00	2.06	3.40	3.75	680.00
Golden Redhorse	R	I	S	M	96	96.00	39.51	33.76	37.20	351.68
Northern Hog Sucker	R	I	S	M	3	3.00	1.23	0.82	0.90	272.00
White Sucker	W	O	S	T	5	5.00	2.06	2.30	2.53	460.00
Spotted Sucker	R	I	S		2	2.00	0.82	0.00	0.00	2.00
Smallmouth Redhorse	R	I	S	M	10	10.00	4.12	1.41	1.56	141.40
Common Carp	G	O	M	T	16	16.00	6.58	35.82	39.47	2,238.88
Spotfin Shiner	N	I	M		5	5.00	2.06	0.01	0.01	1.60
Bluntnose Minnow	N	O	C	T	9	9.00	3.70	0.03	0.03	2.89
Channel Catfish	F		C		10	10.00	4.12	7.35	8.10	735.20
Yellow Bullhead		I	C	T	1	1.00	0.41	0.26	0.29	260.00
Rock Bass	S	C	C		1	1.00	0.41	0.14	0.16	142.00
Largemouth Bass	F	C	C		3	3.00	1.23	0.02	0.02	6.00
Green Sunfish	S	I	C	T	31	31.00	12.76	0.57	0.63	18.39
Bluegill Sunfish	S	I	C	P	5	5.00	2.06	0.06	0.07	12.00
Yellow Perch			M		5	5.00	2.06	0.02	0.02	3.60
Blackside Darter	D	I	S		1	1.00	0.41	0.00	0.00	2.00
Logperch	D	I	S	M	5	5.00	2.06	0.01	0.01	2.00
Johnny Darter	D	I	C		1	1.00	0.41	0.00	0.00	2.00
Sauger X Walleye	E	P			6	6.00	2.47	1.42	1.56	236.67
Mile Total					243	243.00		90.77		
Number of Species					22					
Number of Hybrids					1					

River Code: **14-001**	Stream: **Great Miami River**	Sample Date: **2008**
River Mile: **146.20**	Location:	Date Range: 07/23/2008
Time Fished: 5341 sec	Drainage: 296.0 sq mi	Thru: 09/02/2008
Dist Fished: 1.00 km	Basin: Great Miami 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	2.00	0.49	0.52	61.50
Redfin Pickerel		P	M	P	1	1.00	0.25	0.02	0.02	22.00
Northern Pike	F	P	M		3	3.00	0.75	1.14	1.20	379.33
Black Redhorse	R	I	S	I	2	2.00	0.50	1.20	1.26	600.00
Golden Redhorse	R	I	S	M	93	93.00	23.19	31.82	33.50	342.15
Northern Hog Sucker	R	I	S	M	16	16.00	3.99	1.24	1.31	77.75
White Sucker	W	O	S	T	3	3.00	0.75	1.76	1.85	586.67
Spotted Sucker	R	I	S		7	7.00	1.75	0.55	0.58	78.29
Smallmouth Redhorse	R	I	S	M	7	7.00	1.75	1.36	1.43	194.29
Common Carp	G	O	M	T	18	18.00	4.49	36.70	38.65	2,039.11
Creek Chub	N	G	N	T	3	3.00	0.75	0.00	0.00	1.33
Rosyface Shiner	N	I	S	I	1	1.00	0.25	0.00	0.00	1.00
Striped Shiner	N	I	S		4	4.00	1.00	0.00	0.00	1.00
Spotfin Shiner	N	I	M		41	41.00	10.22	0.18	0.19	4.39
Sand Shiner	N	I	M	M	6	6.00	1.50	0.00	0.00	0.67
Bluntnose Minnow	N	O	C	T	40	40.00	9.98	0.08	0.08	1.95
Central Stoneroller	N	H	N		1	1.00	0.25	0.00	0.00	2.00
Channel Catfish	F		C		4	4.00	1.00	6.15	6.48	1,537.50
Yellow Bullhead		I	C	T	4	4.00	1.00	0.70	0.74	175.75
Black Crappie	S	I	C		10	10.00	2.49	0.11	0.11	10.70
Rock Bass	S	C	C		28	28.00	6.98	4.55	4.79	162.37
Smallmouth Bass	F	C	C	M	2	2.00	0.50	0.43	0.45	215.00
Largemouth Bass	F	C	C		4	4.00	1.00	1.14	1.20	285.25
Green Sunfish	S	I	C	T	27	27.00	6.73	0.90	0.95	33.26
Bluegill Sunfish	S	I	C	P	23	23.00	5.74	0.38	0.39	16.30
Orangespotted Sunfish	S	I	C		1	1.00	0.25	0.01	0.01	5.00
Longear Sunfish	S	I	C	M	16	16.00	3.99	0.28	0.29	17.25
Green Sf X Hybrid					6	6.00	1.50	0.33	0.35	55.00
Yellow Perch			M		5	5.00	1.25	0.01	0.01	2.40
Blackside Darter	D	I	S		2	2.00	0.50	0.00	0.00	1.50
Logperch	D	I	S	M	2	2.00	0.50	0.00	0.00	1.50
Greenside Darter	D	I	S	M	1	1.00	0.25	0.00	0.00	4.00
Rainbow Darter	D	I	S	M	2	2.00	0.50	0.00	0.00	1.50
Sauger X Walleye	E	P			9	9.00	2.24	3.43	3.61	380.78
Mottled Sculpin		I	C		1	1.00	0.25	0.00	0.00	1.00
Mile Total					401	401.00		94.98		
Number of Species					33					
Number of Hybrids					2					

River Code: **14-001**	Stream: **Great Miami River**	Sample Date: **2008**
River Mile: **143.20**	Location: St. Rt. 235	Date Range: 07/22/2008
Time Fished: 4110 sec	Drainage: 405.0 sq mi	Thru: 08/26/2008
Dist Fished: 0.88 km	Basin: Great Miami 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		1	1.16	0.18	0.00	0.00	4.00
Redfin Pickerel		P	M	P	1	1.11	0.18	0.01	0.01	12.00
Quillback	C	O	M		3	3.44	0.54	1.67	1.05	483.33
Black Redhorse	R	I	S	I	33	36.82	5.82	6.09	3.81	164.82
Golden Redhorse	R	I	S	M	150	170.80	26.98	48.19	30.13	281.33
Northern Hog Sucker	R	I	S	M	60	67.91	10.73	7.64	4.77	111.48
Spotted Sucker	R	I	S		13	14.60	2.31	0.19	0.12	12.77
Smallmouth Redhorse	R	I	S	M	76	85.63	13.53	28.31	17.70	329.65
Common Carp	G	O	M	T	10	11.42	1.80	35.41	22.13	3,105.30
River Chub	N	I	N	I	21	23.59	3.73	0.56	0.35	23.81
Rosyface Shiner	N	I	S	I	10	11.27	1.78	0.03	0.02	2.60
Striped Shiner	N	I	S		1	1.16	0.18	0.02	0.01	16.00
Spotfin Shiner	N	I	M		43	48.50	7.66	0.12	0.08	2.47
Sand Shiner	N	I	M	M	6	6.93	1.09	0.02	0.01	3.00
Bluntnose Minnow	N	O	C	T	4	4.60	0.73	0.01	0.01	2.50
Central Stoneroller	N	H	N		4	4.50	0.71	0.04	0.03	9.50
Channel Catfish	F		C		17	19.56	3.09	19.51	12.20	987.47
Black Crappie	S	I	C		2	2.22	0.35	0.06	0.03	25.00
Rock Bass	S	C	C		48	54.57	8.62	8.30	5.19	152.17
Smallmouth Bass	F	C	C	M	7	7.98	1.26	1.99	1.24	245.14
Largemouth Bass	F	C	C		1	1.11	0.18	0.01	0.01	10.00
Green Sunfish	S	I	C	T	3	3.44	0.54	0.04	0.03	12.67
Bluegill Sunfish	S	I	C	P	4	4.50	0.71	0.07	0.05	16.50
Orangespotted Sunfish	S	I	C		6	6.67	1.05	0.09	0.06	13.20
Longear Sunfish	S	I	C	M	8	9.20	1.45	0.32	0.20	34.75
Yellow Perch			M		2	2.27	0.36	0.08	0.05	35.00
Blackside Darter	D	I	S		5	5.56	0.88	0.01	0.01	1.60
Logperch	D	I	S	M	8	9.15	1.44	0.09	0.06	10.25
Greenside Darter	D	I	S	M	5	5.61	0.89	0.02	0.01	3.20
Banded Darter	D	I	S	I	3	3.39	0.53	0.01	0.00	2.00
Rainbow Darter	D	I	S	M	1	1.11	0.18	0.00	0.00	1.00
Sauger X Walleye	E	P			3	3.33	0.53	1.05	0.66	314.33
Mile Total					559	633.10		159.96		
Number of Species					31					
Number of Hybrids					1					

River Code: **14-001**	Stream: **Great Miami River**	Sample Date: **2008**
River Mile: **142.50**	Location:	Date Range: 07/22/2008
Time Fished: 3723 sec	Drainage: 406.0 sq mi	Thru: 08/28/2008
Dist Fished: 0.95 km	Basin: Great Miami 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	0.15	0.11	0.06	110.00
Quillback	C	O	M		5	5.22	0.79	3.74	1.98	725.00
Black Redhorse	R	I	S	I	49	50.33	7.66	17.45	9.25	345.96
Golden Redhorse	R	I	S	M	216	225.11	34.26	70.63	37.45	311.83
Northern Hog Sucker	R	I	S	M	68	70.22	10.69	16.86	8.94	237.10
Smallmouth Redhorse	R	I	S	M	81	83.89	12.77	28.82	15.28	334.39
Common Carp	G	O	M	T	8	8.56	1.30	25.14	13.33	2,944.00
River Chub	N	I	N	I	23	23.67	3.60	0.55	0.29	23.44
Creek Chub	N	G	N	T	1	1.00	0.15	0.02	0.01	18.00
Rosyface Shiner	N	I	S	I	24	24.67	3.75	0.05	0.03	2.17
Striped Shiner	N	I	S		8	8.11	1.23	0.07	0.04	8.52
Spotfin Shiner	N	I	M		23	23.67	3.60	0.07	0.04	3.04
Sand Shiner	N	I	M	M	12	12.11	1.84	0.01	0.01	1.08
Bluntnose Minnow	N	O	C	T	7	7.22	1.10	0.01	0.01	1.46
Channel Catfish	F		C		11	11.78	1.79	15.16	8.04	1,309.09
Stonecat Madtom		I	C	I	3	3.00	0.46	0.07	0.04	22.67
Rock Bass	S	C	C		32	33.89	5.16	5.35	2.84	158.66
Smallmouth Bass	F	C	C	M	8	8.44	1.29	2.37	1.26	288.63
Longear Sunfish	S	I	C	M	8	8.78	1.34	0.16	0.08	18.13
Blackside Darter	D	I	S		6	6.33	0.96	0.02	0.01	2.83
Logperch	D	I	S	M	18	18.67	2.84	0.16	0.09	8.78
Greenside Darter	D	I	S	M	9	9.00	1.37	0.02	0.01	1.78
Banded Darter	D	I	S	I	4	4.11	0.63	0.01	0.00	1.50
Rainbow Darter	D	I	S	M	4	4.11	0.63	0.01	0.01	2.75
Sauger X Walleye	E	P			4	4.22	0.64	1.75	0.93	394.75
	Mile Total				633	657.11		188.61		
	Number of Species				24					
	Number of Hybrids				1					

River Code: **14-001**	Stream: **Great Miami River**	Sample Date: **2008**
River Mile: **138.40**	Location:	Date Range: 07/22/2008
Time Fished: 4927 sec	Drainage: 429.0 sq mi	Thru: 09/04/2008
Dist Fished: 1.00 km	Basin: Great Miami 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		5	5.00	0.75	2.51	2.26	501.00
Quillback	C	O	M		1	1.00	0.15	0.75	0.68	750.00
Black Redhorse	R	I	S	I	43	43.00	6.49	7.96	7.19	185.05
Golden Redhorse	R	I	S	M	206	206.00	31.07	46.46	41.96	225.54
Northern Hog Sucker	R	I	S	M	87	87.00	13.12	9.39	8.48	107.91
White Sucker	W	O	S	T	1	1.00	0.15	0.60	0.54	600.00
Spotted Sucker	R	I	S		5	5.00	0.75	0.10	0.09	19.00
Smallmouth Redhorse	R	I	S	M	22	22.00	3.32	6.86	6.20	312.00
Common Carp	G	O	M	T	4	4.00	0.60	20.60	18.60	5,150.00
River Chub	N	I	N	I	10	10.00	1.51	0.46	0.41	45.90
Rosyface Shiner	N	I	S	I	15	15.00	2.26	0.05	0.04	3.13
Redfin Shiner	N	I	N		1	1.00	0.15	0.00	0.00	2.00
Striped Shiner	N	I	S		12	12.00	1.81	0.14	0.12	11.25
Spotfin Shiner	N	I	M		52	52.00	7.84	0.22	0.20	4.27
Sand Shiner	N	I	M	M	32	32.00	4.83	0.04	0.04	1.25
Bluntnose Minnow	N	O	C	T	28	28.00	4.22	0.10	0.09	3.50
Central Stoneroller	N	H	N		9	9.00	1.36	0.13	0.11	14.00
Channel Catfish	F		C		3	3.00	0.45	4.26	3.85	1,421.33
Yellow Bullhead		I	C	T	1	1.00	0.15	0.22	0.19	215.00
Brindled Madtom		I	C	I	1	1.00	0.15	0.01	0.01	14.00
Rock Bass	S	C	C		51	51.00	7.69	6.62	5.98	129.81
Smallmouth Bass	F	C	C	M	6	6.00	0.90	2.02	1.82	335.83
Largemouth Bass	F	C	C		1	1.00	0.15	0.02	0.02	20.00
Green Sunfish	S	I	C	T	2	2.00	0.30	0.08	0.07	40.00
Bluegill Sunfish	S	I	C	P	3	3.00	0.45	0.05	0.04	16.00
Longear Sunfish	S	I	C	M	18	18.00	2.71	0.55	0.50	30.67
Green Sf X Longear Sf					1	1.00	0.15	0.09	0.08	86.00
Longear X Orangespot					1	1.00	0.15	0.03	0.03	28.00
Yellow Perch			M		1	1.00	0.15	0.06	0.06	62.00
Blackside Darter	D	I	S		4	4.00	0.60	0.01	0.01	2.25
Logperch	D	I	S	M	15	15.00	2.26	0.18	0.16	11.67
Greenside Darter	D	I	S	M	13	13.00	1.96	0.06	0.05	4.31
Banded Darter	D	I	S	I	8	8.00	1.21	0.01	0.01	1.75
Sauger X Walleye	E	P			1	1.00	0.15	0.12	0.11	120.00
Mile Total					663	663.00		110.73		
Number of Species					31					
Number of Hybrids					3					

River Code: **14-001**	Stream: **Great Miami River**	Sample Date: **2008**
River Mile: **130.00**	Location: St. Rt. 47	Date Range: 07/22/2008
Time Fished: 4745 sec	Drainage: 541.0 sq mi	Thru: 09/02/2008
Dist Fished: 1.00 km	Basin: Great Miami 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		4	4.00	0.59	0.11	0.08	28.00
Northern Pike	F	P	M		5	5.00	0.74	6.18	4.22	1,236.40
Quillback	C	O	M		4	4.00	0.59	2.45	1.67	612.50
Black Redhorse	R	I	S	I	56	56.00	8.26	12.75	8.69	227.63
Golden Redhorse	R	I	S	M	161	161.00	23.75	38.51	26.27	239.22
Northern Hog Sucker	R	I	S	M	52	52.00	7.67	5.43	3.70	104.38
Smallmouth Redhorse	R	I	S	M	37	37.00	5.46	10.69	7.29	288.84
Common Carp	G	O	M	T	8	8.00	1.18	23.80	16.23	2,975.00
River Chub	N	I	N	I	14	14.00	2.06	0.37	0.25	26.57
Rosyface Shiner	N	I	S	I	26	26.00	3.83	0.07	0.05	2.69
Striped Shiner	N	I	S		13	13.00	1.92	0.11	0.07	8.23
Spotfin Shiner	N	I	M		54	54.00	7.96	0.24	0.16	4.40
Sand Shiner	N	I	M	M	14	14.00	2.06	0.03	0.02	2.43
Bluntnose Minnow	N	O	C	T	14	14.00	2.06	0.05	0.04	3.79
Central Stoneroller	N	H	N		25	25.00	3.69	0.28	0.19	11.16
Channel Catfish	F		C		12	12.00	1.77	10.36	7.07	863.50
Stonecat Madtom		I	C	I	2	2.00	0.29	0.01	0.01	5.50
White Crappie	S	I	C		1	1.00	0.15	0.06	0.04	59.00
Black Crappie	S	I	C		1	1.00	0.15	0.20	0.14	200.00
Rock Bass	S	C	C		48	48.00	7.08	8.63	5.89	179.77
Smallmouth Bass	F	C	C	M	56	56.00	8.26	17.15	11.70	306.21
Green Sunfish	S	I	C	T	1	1.00	0.15	0.02	0.02	22.00
Bluegill Sunfish	S	I	C	P	12	12.00	1.77	0.63	0.43	52.17
Green Sf X Hybrid					2	2.00	0.29	0.12	0.08	59.00
Blackside Darter	D	I	S		2	2.00	0.29	0.01	0.00	2.50
Logperch	D	I	S	M	18	18.00	2.65	0.19	0.13	10.39
Greenside Darter	D	I	S	M	20	20.00	2.95	0.07	0.05	3.55
Banded Darter	D	I	S	I	2	2.00	0.29	0.00	0.00	1.50
Rainbow Darter	D	I	S	M	4	4.00	0.59	0.01	0.00	1.50
Sauger X Walleye	E	P			8	8.00	1.18	8.07	5.50	1,008.38
Mottled Sculpin		I	C		2	2.00	0.29	0.02	0.01	10.00
Mile Total					678	678.00		146.61		
Number of Species					29					
Number of Hybrids					2					

River Code: **14-063**	Stream: **Plum Creek**	Sample Date: **2008**
River Mile: **9.00**	Location:	Date Range: 08/20/2008
Time Fished: 1328 sec	Drainage: 7.8 sq mi	
Dist Fished: 0.15 km	Basin: Great Miami 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	15	30.00	0.35	2.34	4.19	78.07
Western Blacknose Dace	N	G	S	T	1	2.00	0.02	0.01	0.02	5.00
Creek Chub	N	G	N	T	760	1,520.00	17.50	24.31	43.52	15.99
Scarlet Shiner	N	I	S	M	14	28.00	0.32	0.06	0.11	2.21
Striped Shiner	N	I	S		100	200.00	2.30	1.54	2.75	7.68
Silverjaw Minnow	N	I	M		229	458.00	5.27	1.04	1.87	2.28
Bluntnose Minnow	N	O	C	T	2,760	5,520.00	63.57	13.98	25.02	2.53
Central Stoneroller	N	H	N		219	438.00	5.04	5.88	10.52	13.42
Yellow Bullhead		I	C	T	50	100.00	1.15	3.61	6.46	36.10
Blackstripe Topminnow		I	M		5	10.00	0.12	0.02	0.04	2.00
Western Mosquitofish	E	I	N		40	80.00	0.92	0.09	0.16	1.13
Green Sunfish	S	I	C	T	57	114.00	1.31	1.36	2.43	11.91
Bluegill Sunfish	S	I	C	P	8	16.00	0.18	0.22	0.39	13.50
Longear Sunfish	S	I	C	M	25	50.00	0.58	0.73	1.31	14.63
Green Sf X Bluegill Sf					8	16.00	0.18	0.44	0.79	27.50
Johnny Darter	D	I	C		10	20.00	0.23	0.03	0.05	1.50
Greenside Darter	D	I	S	M	12	24.00	0.28	0.12	0.21	5.00
Rainbow Darter	D	I	S	M	17	34.00	0.39	0.06	0.11	1.82
Orangethroat Darter	D	I	S		9	18.00	0.21	0.01	0.03	0.78
Fantail Darter	D	I	C		3	6.00	0.07	0.01	0.02	1.67
	Mile Total				4,342	8,684.00		55.85		
	Number of Species				19					
	Number of Hybrids				1					

River Code: **14-063**	Stream: **Plum Creek**	Sample Date: **2008**
River Mile: **5.20**	Location:	Date Range: 08/13/2008
Time Fished: 2430 sec	Drainage: 14.7 sq mi	
Dist Fished: 0.15 km	Basin: Great Miami 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	34	68.00	1.05			
Common Carp	G	O	M	T	1	2.00	0.03			
Western Blacknose Dace	N	G	S	T	2	4.00	0.06			
Creek Chub	N	G	N	T	169	338.00	5.21			
Redfin Shiner	N	I	N		37	74.00	1.14			
Striped Shiner	N	I	S		219	438.00	6.75			
Silverjaw Minnow	N	I	M		47	94.00	1.45			
Bluntnose Minnow	N	O	C	T	2,014	4,028.00	62.08			
Central Stoneroller	N	H	N		295	590.00	9.09			
Yellow Bullhead		I	C	T	32	64.00	0.99			
Blackstripe Topminnow		I	M		3	6.00	0.09			
Largemouth Bass	F	C	C		1	2.00	0.03			
Green Sunfish	S	I	C	T	10	20.00	0.31			
Bluegill Sunfish	S	I	C	P	8	16.00	0.25			
Longear Sunfish	S	I	C	M	199	398.00	6.13			
Green Sf X Bluegill Sf					1	2.00	0.03			
Johnny Darter	D	I	C		47	94.00	1.45			
Greenside Darter	D	I	S	M	36	72.00	1.11			
Rainbow Darter	D	I	S	M	78	156.00	2.40			
Orangethroat Darter	D	I	S		3	6.00	0.09			
Fantail Darter	D	I	C		8	16.00	0.25			
	Mile Total				3,244	6,488.00				
	Number of Species				20					
	Number of Hybrids				1					

River Code: **14-063**	Stream: **Plum Creek**	Sample Date: **2008**
River Mile: **0.10**	Location:	Date Range: 07/22/2008
Time Fished: 4111 sec	Drainage: 29.0 sq mi	Thru: 09/02/2008
Dist Fished: 0.30 km	Basin: Great Miami 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	1	1.00	0.07	0.02	0.23	15.00
Northern Pike	F	P	M		1	1.00	0.07	0.07	1.12	72.00
Northern Hog Sucker	R	I	S	M	8	8.00	0.59	0.57	8.87	71.00
White Sucker	W	O	S	T	9	9.00	0.66	0.42	6.58	46.83
Common Carp	G	O	M	T	1	1.00	0.07	0.10	1.56	100.00
Creek Chub	N	G	N	T	26	26.00	1.91	0.19	2.95	7.27
Silver Shiner	N	I	S	I	1	1.00	0.07	0.00	0.03	2.00
Redfin Shiner	N	I	N		10	10.00	0.74	0.02	0.33	2.10
Scarlet Shiner	N	I	S	M	19	19.00	1.40	0.02	0.25	0.84
Striped Shiner	N	I	S		107	107.00	7.88	1.07	16.65	9.96
Spotfin Shiner	N	I	M		14	14.00	1.03	0.03	0.52	2.36
Sand Shiner	N	I	M	M	1	1.00	0.07	0.00	0.02	1.00
Bluntnose Minnow	N	O	C	T	516	516.00	38.00	0.98	15.26	1.89
Central Stoneroller	N	H	N		312	312.00	22.97	0.77	11.96	2.45
Yellow Bullhead		I	C	T	3	3.00	0.22	0.06	0.91	19.33
Rock Bass	S	C	C		10	10.00	0.74	0.95	14.82	94.90
Smallmouth Bass	F	C	C	M	3	3.00	0.22	0.09	1.33	28.33
Largemouth Bass	F	C	C		5	5.00	0.37	0.19	2.90	37.20
Green Sunfish	S	I	C	T	10	10.00	0.74	0.26	4.09	26.20
Bluegill Sunfish	S	I	C	P	5	5.00	0.37	0.06	0.91	11.67
Longear Sunfish	S	I	C	M	1	1.00	0.07	0.01	0.22	14.00
Green Sf X Bluegill Sf					2	2.00	0.15	0.09	1.44	46.00
Yellow Perch			M		2	2.00	0.15	0.01	0.16	5.00
Blackside Darter	D	I	S		6	6.00	0.44	0.01	0.19	2.00
Johnny Darter	D	I	C		15	15.00	1.10	0.02	0.36	1.53
Greenside Darter	D	I	S	M	18	18.00	1.33	0.05	0.76	2.69
Rainbow Darter	D	I	S	M	140	140.00	10.31	0.16	2.57	1.18
Fantail Darter	D	I	C		11	11.00	0.81	0.02	0.28	1.64
Mottled Sculpin		I	C		101	101.00	7.44	0.18	2.74	1.74
	Mile Total				1,358	1,358.00		6.40		
	Number of Species				28					
	Number of Hybrids				1					

River Code: **14-069**	Stream: **Indian Creek**	Sample Date: **2008**
River Mile: **0.10**	Location:	Date Range: 08/14/2008
Time Fished: 2685 sec	Drainage: 15.9 sq mi	
Dist Fished: 0.15 km	Basin: Great Miami 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 Pike	F	P	M		1	2.00	0.13			
Northern Hog Sucker	R	I	S	M	24	48.00	3.07			
White Sucker	W	O	S	T	17	34.00	2.17			
Western Blacknose Dace	N	G	S	T	2	4.00	0.26			
Creek Chub	N	G	N	T	30	60.00	3.83			
Redfin Shiner	N	I	N		49	98.00	6.26			
Striped Shiner	N	I	S		87	174.00	11.11			
Spotfin Shiner	N	I	M		7	14.00	0.89			
Sand Shiner	N	I	M	M	31	62.00	3.96			
Silverjaw Minnow	N	I	M		17	34.00	2.17			
Bluntnose Minnow	N	O	C	T	173	346.00	22.09			
Central Stoneroller	N	H	N		259	518.00	33.08			
Yellow Bullhead		I	C	T	1	2.00	0.13			
Rock Bass	S	C	C		3	6.00	0.38			
Smallmouth Bass	F	C	C	M	2	4.00	0.26			
Green Sunfish	S	I	C	T	2	4.00	0.26			
Yellow Perch			M		1	2.00	0.13			
Greenside Darter	D	I	S	M	9	18.00	1.15			
Rainbow Darter	D	I	S	M	25	50.00	3.19			
Mottled Sculpin		I	C		43	86.00	5.49			
Mile Total					783	1,566.00				
Number of Species					20					
Number of Hybrids					0					

River Code: **14-072**	Stream: **Stony Creek**	Sample Date: **2008**
River Mile: **2.40**	Location: St. Rt. 508	Date Range: 07/21/2008
Time Fished: 3781 sec	Drainage: 35.4 sq mi	Thru: 08/25/2008
Dist Fished: 0.40 km	Basin: Great Miami 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	0.05	0.02	0.11	22.00
Black Redhorse	R	I	S	I	1	0.75	0.05	0.30	1.98	400.00
Golden Redhorse	R	I	S	M	19	14.25	1.01	0.14	0.90	9.53
Shorthead Redhorse	R	I	S	M	1	0.75	0.05	0.02	0.15	30.00
Northern Hog Sucker	R	I	S	M	177	132.75	9.38	5.18	34.19	39.00
White Sucker	W	O	S	T	19	14.25	1.01	1.38	9.12	96.95
Hornyhead Chub	N	I	N	I	13	9.75	0.69	0.16	1.07	16.67
River Chub	N	I	N	I	13	9.75	0.69	0.35	2.28	35.38
Creek Chub	N	G	N	T	9	6.75	0.48	0.03	0.18	4.11
Rosyface Shiner	N	I	S	I	9	6.75	0.48	0.03	0.18	4.14
Striped Shiner	N	I	S		63	47.25	3.34	0.64	4.24	13.59
Spotfin Shiner	N	I	M		88	66.00	4.66	0.17	1.13	2.60
Sand Shiner	N	I	M	M	212	159.00	11.23	0.52	3.40	3.24
Bluntnose Minnow	N	O	C	T	396	297.00	20.99	0.62	4.09	2.08
Central Stoneroller	N	H	N		47	35.25	2.49	0.35	2.34	10.04
Channel Catfish	F		C		1	0.75	0.05	0.59	3.86	780.00
Yellow Bullhead		I	C	T	6	4.50	0.32	0.64	4.22	142.00
Rock Bass	S	C	C		3	2.25	0.16	0.12	0.76	51.33
Smallmouth Bass	F	C	C	M	1	0.75	0.05	0.03	0.21	43.00
Largemouth Bass	F	C	C		16	12.00	0.85	1.87	12.34	155.63
Green Sunfish	S	I	C	T	18	13.50	0.95	0.21	1.41	15.83
Bluegill Sunfish	S	I	C	P	30	22.50	1.59	0.39	2.55	17.17
Yellow Perch			M		1	0.75	0.05	0.00	0.03	5.00
Blackside Darter	D	I	S		48	36.00	2.54	0.10	0.64	2.68
Logperch	D	I	S	M	12	9.00	0.64	0.08	0.55	9.17
Johnny Darter	D	I	C		20	15.00	1.06	0.03	0.17	1.68
Greenside Darter	D	I	S	M	286	214.50	15.16	0.80	5.27	3.72
Banded Darter	D	I	S	I	210	157.50	11.13	0.16	1.08	1.04
Rainbow Darter	D	I	S	M	136	102.00	7.21	0.14	0.93	1.38
Fantail Darter	D	I	C		16	12.00	0.85	0.04	0.26	3.25
Mottled Sculpin		I	C		15	11.25	0.79	0.05	0.36	4.80
Mile Total					1,887	1,415.25		15.14		
Number of Species					31					
Number of Hybrids					0					

River Code: **14-072**	Stream: **Stony Creek**	Sample Date: **2008**
River Mile: **1.60**	Location:	Date Range: 07/21/2008
Time Fished: 2496 sec	Drainage: 59.1 sq mi	Thru: 09/02/2008
Dist Fished: 0.40 km	Basin: Great Miami 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	1.65	0.05	0.17	17.50
Quillback	C	O	M		4	3.00	1.65	2.10	6.86	700.00
Black Redhorse	R	I	S	I	2	1.50	0.83	0.82	2.66	543.50
Golden Redhorse	R	I	S	M	68	51.00	28.10	17.51	57.17	343.24
Northern Hog Sucker	R	I	S	M	25	18.75	10.33	2.27	7.41	121.00
White Sucker	W	O	S	T	25	18.75	10.33	4.38	14.31	233.72
Spotted Sucker	R	I	S		2	1.50	0.83	0.61	2.01	409.50
Smallmouth Redhorse	R	I	S	M	1	0.75	0.41	0.38	1.22	500.00
Striped Shiner	N	I	S		1	0.75	0.41	0.01	0.02	9.00
Spotfin Shiner	N	I	M		14	10.50	5.79	0.05	0.17	5.07
Sand Shiner	N	I	M	M	2	1.50	0.83	0.01	0.02	4.00
Bluntnose Minnow	N	O	C	T	5	3.75	2.07	0.02	0.07	5.40
Yellow Bullhead		I	C	T	1	0.75	0.41	0.03	0.10	40.00
Rock Bass	S	C	C		4	3.00	1.65	0.57	1.86	189.75
Smallmouth Bass	F	C	C	M	3	2.25	1.24	0.10	0.32	43.00
Largemouth Bass	F	C	C		2	1.50	0.83	0.02	0.07	14.00
Green Sunfish	S	I	C	T	4	3.00	1.65	0.02	0.08	8.00
Bluegill Sunfish	S	I	C	P	29	21.75	11.98	0.75	2.45	34.43
Orangespotted Sunfish	S	I	C		1	0.75	0.41	0.02	0.06	24.00
Green Sf X Bluegill Sf					1	0.75	0.41	0.02	0.08	32.00
Yellow Perch			M		2	1.50	0.83	0.18	0.58	118.00
Blackside Darter	D	I	S		17	12.75	7.02	0.04	0.14	3.26
Logperch	D	I	S	M	2	1.50	0.83	0.02	0.07	14.00
Johnny Darter	D	I	C		3	2.25	1.24	0.00	0.01	1.33
Greenside Darter	D	I	S	M	10	7.50	4.13	0.01	0.05	1.80
Banded Darter	D	I	S	I	2	1.50	0.83	0.00	0.01	1.50
Rainbow Darter	D	I	S	M	3	2.25	1.24	0.00	0.01	1.67
Sauger X Walleye	E	P			1	0.75	0.41	0.61	1.98	810.00
Mottled Sculpin		I	C		4	3.00	1.65	0.02	0.07	6.50
Mile Total					242	181.50		30.62		
Number of Species					27					
Number of Hybrids					2					

River Code: **14-073**	Stream: **Lee Creek**	Sample Date: **2008**
River Mile: **3.40**	Location:	Date Range: 08/11/2008
Time Fished: 1800 sec	Drainage: 9.5 sq mi	
Dist Fished: 0.15 km	Basin: Great Miami 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 Pike	F	P	M		5	10.00	1.06			
Northern Hog Sucker	R	I	S	M	4	8.00	0.85			
White Sucker	W	O	S	T	11	22.00	2.34			
Western Blacknose Dace	N	G	S	T	60	120.00	12.74			
Creek Chub	N	G	N	T	86	172.00	18.26			
Striped Shiner	N	I	S		12	24.00	2.55			
Rock Bass	S	C	C		4	8.00	0.85			
Green Sunfish	S	I	C	T	3	6.00	0.64			
Johnny Darter	D	I	C		2	4.00	0.42			
Greenside Darter	D	I	S	M	41	82.00	8.70			
Rainbow Darter	D	I	S	M	86	172.00	18.26			
Fantail Darter	D	I	C		6	12.00	1.27			
Mottled Sculpin		I	C		151	302.00	32.06			
	Mile Total				471	942.00				
	Number of Species				13					
	Number of Hybrids				0					

River Code: **14-074**	Stream: **Graves Creek**	Sample Date: **2008**
River Mile: **0.50**	Location:	Date Range: 07/16/2008
Time Fished: 1233 sec	Drainage: 10.9 sq mi	
Dist Fished: 0.15 km	Basin: Great Miami 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	15	30.00	4.18			
White Sucker	W	O	S	T	37	74.00	10.31			
Western Blacknose Dace	N	G	S	T	71	142.00	19.78			
Creek Chub	N	G	N	T	57	114.00	15.88			
Striped Shiner	N	I	S		2	4.00	0.56			
Bluntnose Minnow	N	O	C	T	2	4.00	0.56			
Central Stoneroller	N	H	N		62	124.00	17.27			
Green Sunfish	S	I	C	T	1	2.00	0.28			
Johnny Darter	D	I	C		2	4.00	0.56			
Greenside Darter	D	I	S	M	19	38.00	5.29			
Banded Darter	D	I	S	I	11	22.00	3.06			
Rainbow Darter	D	I	S	M	13	26.00	3.62			
Orangethroat Darter	D	I	S		3	6.00	0.84			
Fantail Darter	D	I	C		1	2.00	0.28			
Mottled Sculpin		I	C		63	126.00	17.55			
	Mile Total				359	718.00				
	Number of Species				15					
	Number of Hybrids				0					

River Code: **14-075**	Stream: **McKee Creek**	Sample Date: **2008**
River Mile: **9.50**	Location:	Date Range: 07/09/2008
Time Fished: 2039 sec	Drainage: 3.0 sq mi	
Dist Fished: 0.15 km	Basin: Great Miami 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	5	10.00	1.16			
Western Blacknose Dace	N	G	S	T	111	222.00	25.81			
Creek Chub	N	G	N	T	51	102.00	11.86			
South. Redbelly Dace	N	H	S		46	92.00	10.70			
Central Stoneroller	N	H	N		51	102.00	11.86			
Rainbow Darter	D	I	S	M	3	6.00	0.70			
Orangethroat Darter	D	I	S		20	40.00	4.65			
Mottled Sculpin		I	C		142	284.00	33.02			
Brook Stickleback		I	C		1	2.00	0.23			
Mile Total					430	860.00				
Number of Species					9					
Number of Hybrids					0					

River Code: **14-075**	Stream: **McKee Creek**	Sample Date: **2008**
River Mile: **5.90**	Location:	Date Range: 07/10/2008
Time Fished: 2454 sec	Drainage: 8.7 sq mi	
Dist Fished: 0.15 km	Basin: Great Miami 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
Amer Brook Lamprey		F	N	R	3	6.00	0.78			
Northern Hog Sucker	R	I	S	M	6	12.00	1.56			
White Sucker	W	O	S	T	16	32.00	4.16			
Western Blacknose Dace	N	G	S	T	61	122.00	15.84			
Creek Chub	N	G	N	T	145	290.00	37.66			
Striped Shiner	N	I	S		6	12.00	1.56			
Central Stoneroller	N	H	N		19	38.00	4.94			
Yellow Bullhead		I	C	T	3	6.00	0.78			
Largemouth Bass	F	C	C		1	2.00	0.26			
Green Sunfish	S	I	C	T	5	10.00	1.30			
Logperch	D	I	S	M	2	4.00	0.52			
Greenside Darter	D	I	S	M	2	4.00	0.52			
Orangethroat Darter	D	I	S		7	14.00	1.82			
Fantail Darter	D	I	C		2	4.00	0.52			
Mottled Sculpin		I	C		107	214.00	27.79			
	Mile Total				385	770.00				
	Number of Species				15					
	Number of Hybrids				0					

River Code: **14-075**	Stream: **McKee Creek**	Sample Date: **2008**
River Mile: **0.60**	Location: upst. Co. Rd. 31	Date Range: 07/10/2008
Time Fished: 1963 sec	Drainage: 17.6 sq mi	
Dist Fished: 0.15 km	Basin: Great Miami 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	23	46.00	7.49			
White Sucker	W	O	S	T	25	50.00	8.14			
Western Blacknose Dace	N	G	S	T	12	24.00	3.91			
Creek Chub	N	G	N	T	26	52.00	8.47			
Rosyface Shiner	N	I	S	I	8	16.00	2.61			
Striped Shiner	N	I	S		30	60.00	9.77			
Bluntnose Minnow	N	O	C	T	4	8.00	1.30			
Central Stoneroller	N	H	N		77	154.00	25.08			
Greenside Darter	D	I	S	M	11	22.00	3.58			
Rainbow Darter	D	I	S	M	18	36.00	5.86			
Mottled Sculpin		I	C		73	146.00	23.78			
Mile Total					307	614.00				
Number of Species					11					
Number of Hybrids					0					

River Code: **14-076**	Stream: **Bokengehalas Creek**	Sample Date: **2008**
River Mile: **12.30**	Location:	Date Range: 08/04/2008
Time Fished: 1719 sec	Drainage: 4.8 sq mi	
Dist Fished: 0.15 km	Basin: Great Miami 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
Western Blacknose Dace	N	G	S	T	239	478.00	33.29			
Creek Chub	N	G	N	T	49	98.00	6.82			
Central Stoneroller	N	H	N		32	64.00	4.46			
Green Sunfish	S	I	C	T	1	2.00	0.14			
Bluegill Sunfish	S	I	C	P	1	2.00	0.14			
Rainbow Darter	D	I	S	M	145	290.00	20.19			
Orangethroat Darter	D	I	S		8	16.00	1.11			
Fantail Darter	D	I	C		42	84.00	5.85			
Mottled Sculpin		I	C		201	402.00	27.99			
	Mile Total				718	1,436.00				
	Number of Species				9					
	Number of Hybrids				0					

River Code: **14-076**	Stream: **Bokengehalas Creek**	Sample Date: **07/16/2008**
River Mile: **8.00**	Location: Twp. Rd. 31	Invalid Sample:
Time Fished: 1800 sec	Drainage: 20.7 sq mi Depth:	Data Source: 01
Dist Fished: 0.15 km	Basin: Great Miami River Flow: C	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	1.98	0.12	1.53	12.00
Northern Hog Sucker	R	I	S	M	2	4.00	0.79	0.06	0.71	14.00
White Sucker	W	O	S	T	35	70.00	13.89	3.29	41.98	47.06
Western Blacknose Dace	N	G	S	T	21	42.00	8.33	0.08	0.99	1.86
Creek Chub	N	G	N	T	67	134.00	26.59	2.54	32.35	18.94
Rosyface Shiner	N	I	S	I	1	2.00	0.40	0.00	0.05	2.00
Striped Shiner	N	I	S		1	2.00	0.40	0.00	0.03	1.00
Fathead Minnow	N	O	C	T	1	2.00	0.40	0.01	0.08	3.00
Bluntnose Minnow	N	O	C	T	8	16.00	3.17	0.02	0.25	1.25
Central Stoneroller	N	H	N		22	44.00	8.73	0.28	3.57	6.36
Green Sunfish	S	I	C	T	32	64.00	12.70	0.84	10.66	13.06
Bluegill Sunfish	S	I	C	P	5	10.00	1.98	0.08	1.02	8.00
Blackside Darter	D	I	S		2	4.00	0.79	0.01	0.15	3.00
Johnny Darter	D	I	C		3	6.00	1.19	0.01	0.13	1.67
Greenside Darter	D	I	S	M	6	12.00	2.38	0.03	0.43	2.80
Rainbow Darter	D	I	S	M	1	2.00	0.40	0.00	0.03	1.00
Orangethroat Darter	D	I	S		7	14.00	2.78	0.02	0.31	1.71
Mottled Sculpin		I	C		33	66.00	13.10	0.45	5.74	6.82
	Date Total				252	504.00		7.85		
	Number of Species				18					
	Number of Hybrids				0					

River Code: **14-076**	Stream: **Bokengehalas Creek**	Sample Date: **08/04/2008**
River Mile: **8.00**	Location: Twp. Rd. 31	Invalid Sample:
Time Fished: 1936 sec	Drainage: 20.7 sq mi Depth:	Data Source: 01
Dist Fished: 0.15 km	Basin: Great Miami River Flow: C	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	0.02	0.24	11.00
Northern Hog Sucker	R	I	S	M	2	4.00	0.76	0.05	0.54	12.50
White Sucker	W	O	S	T	21	42.00	8.02	0.72	7.73	17.14
Western Blacknose Dace	N	G	S	T	9	18.00	3.44	0.06	0.67	3.44
Creek Chub	N	G	N	T	100	200.00	38.17	6.72	72.17	33.60
Bluntnose Minnow	N	O	C	T	19	38.00	7.25	0.16	1.68	4.11
Central Stoneroller	N	H	N		19	38.00	7.25	0.27	2.89	7.08
Green Sunfish	S	I	C	T	30	60.00	11.45	0.69	7.41	11.50
Blackside Darter	D	I	S		4	8.00	1.53	0.03	0.37	4.25
Johnny Darter	D	I	C		3	6.00	1.15	0.02	0.21	3.33
Greenside Darter	D	I	S	M	3	6.00	1.15	0.05	0.52	8.00
Rainbow Darter	D	I	S	M	9	18.00	3.44	0.05	0.54	2.78
Orangethroat Darter	D	I	S		2	4.00	0.76	0.02	0.21	5.00
Mottled Sculpin		I	C		40	80.00	15.27	0.45	4.83	5.63
Date Total					262	524.00		9.31		
Number of Species					14					
Number of Hybrids					0					

River Code: **14-076**	Stream: **Bokengehalas Creek**	Sample Date: **2008**
River Mile: **4.60**	Location: Twp. Rd. 209	Date Range: 07/16/2008
Time Fished: 5504 sec	Drainage: 36.3 sq mi	Thru: 08/27/2008
Dist Fished: 0.40 km	Basin: Great Miami River No of Passes: 2	Sampler Type: E 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	1	0.75	0.10	0.02	0.07	23.00
Northern Hog Sucker	R	I	S	M	52	39.00	5.41	5.96	23.35	152.81
White Sucker	W	O	S	T	142	106.50	14.76	11.44	44.82	107.39
Hornyhead Chub	N	I	N	I	17	12.75	1.77	0.35	1.38	27.54
River Chub	N	I	N	I	44	33.00	4.57	0.87	3.40	26.28
Western Blacknose Dace	N	G	S	T	1	0.75	0.10	0.00	0.01	2.00
Creek Chub	N	G	N	T	127	95.25	13.20	2.56	10.04	26.89
Rosyface Shiner	N	I	S	I	41	30.75	4.26	0.09	0.35	2.93
Striped Shiner	N	I	S		117	87.75	12.16	1.37	5.38	15.65
Sand Shiner	N	I	M	M	3	2.25	0.31	0.01	0.03	3.67
Silverjaw Minnow	N	I	M		4	3.00	0.42	0.01	0.04	3.25
Fathead Minnow	N	O	C	T	1	0.75	0.10	0.00	0.01	3.00
Bluntnose Minnow	N	O	C	T	21	15.75	2.18	0.03	0.10	1.62
Central Stoneroller	N	H	N		169	126.75	17.57	1.26	4.93	9.92
Stonecat Madtom		I	C	I	5	3.75	0.52	0.20	0.78	52.80
White Crappie	S	I	C		3	2.25	0.31	0.01	0.03	3.67
Rock Bass	S	C	C		11	8.25	1.14	0.44	1.71	52.91
Smallmouth Bass	F	C	C	M	1	0.75	0.10	0.04	0.15	50.00
Green Sunfish	S	I	C	T	50	37.50	5.20	0.47	1.85	12.56
Blackside Darter	D	I	S		5	3.75	0.52	0.02	0.09	6.20
Logperch	D	I	S	M	6	4.50	0.62	0.07	0.29	16.50
Johnny Darter	D	I	C		1	0.75	0.10	0.00	0.01	2.00
Greenside Darter	D	I	S	M	24	18.00	2.49	0.08	0.33	4.67
Banded Darter	D	I	S	I	35	26.25	3.64	0.05	0.19	1.86
Rainbow Darter	D	I	S	M	50	37.50	5.20	0.06	0.24	1.64
Mottled Sculpin		I	C		31	23.25	3.22	0.11	0.45	4.90
Mile Total					962	721.50		25.52		
Number of Species					26					
Number of Hybrids					0					

River Code: **14-076**	Stream: **Bokengehalas Creek**	Sample Date: **2008**
River Mile: **1.20**	Location:	Date Range: 07/16/2008
Time Fished: 5104 sec	Drainage: 40.3 sq mi	Thru: 08/27/2008
Dist Fished: 0.40 km	Basin: Great Miami 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
Black Redhorse	R	I	S	I	2	1.50	0.29	0.71	3.30	471.50
Golden Redhorse	R	I	S	M	3	2.25	0.44	0.93	4.32	412.00
Northern Hog Sucker	R	I	S	M	77	57.75	11.24	4.91	22.88	84.94
White Sucker	W	O	S	T	51	38.25	7.45	4.47	20.83	116.74
Smallmouth Redhorse	R	I	S	M	2	1.50	0.29	0.35	1.61	230.00
Common Carp	G	O	M	T	1	0.75	0.15	3.84	17.89	5,113.00
River Chub	N	I	N	I	44	33.00	6.42	0.88	4.09	26.57
Western Blacknose Dace	N	G	S	T	2	1.50	0.29	0.01	0.03	4.00
Creek Chub	N	G	N	T	21	15.75	3.07	0.36	1.67	22.71
Rosyface Shiner	N	I	S	I	58	43.50	8.47	0.15	0.69	3.38
Redfin Shiner	N	I	N		1	0.75	0.15	0.01	0.03	10.00
Striped Shiner	N	I	S		90	67.50	13.14	1.50	7.00	22.25
Spotfin Shiner	N	I	M		3	2.25	0.44	0.01	0.05	4.33
Bluntnose Minnow	N	O	C	T	3	2.25	0.44	0.02	0.07	6.67
Central Stoneroller	N	H	N		51	38.25	7.45	0.58	2.72	15.22
Stonecat Madtom		I	C	I	1	0.75	0.15	0.06	0.28	80.00
Rock Bass	S	C	C		16	12.00	2.34	1.27	5.92	105.69
Smallmouth Bass	F	C	C	M	6	4.50	0.88	0.51	2.39	114.00
Green Sunfish	S	I	C	T	3	2.25	0.44	0.05	0.23	21.33
Blackside Darter	D	I	S		1	0.75	0.15	0.00	0.02	6.00
Logperch	D	I	S	M	9	6.75	1.31	0.10	0.45	14.33
Greenside Darter	D	I	S	M	44	33.00	6.42	0.20	0.95	6.16
Banded Darter	D	I	S	I	14	10.50	2.04	0.03	0.15	3.00
Rainbow Darter	D	I	S	M	94	70.50	13.72	0.16	0.73	2.23
Orangethroat Darter	D	I	S		1	0.75	0.15	0.00	0.01	2.00
Mottled Sculpin		I	C		87	65.25	12.70	0.37	1.70	5.59
Mile Total					685	513.75		21.44		
Number of Species					26					
Number of Hybrids					0					

River Code: **14-077**	Stream: **Bluejacket Creek**	Sample Date: **2008**
River Mile: **6.30**	Location:	Date Range: 07/09/2008
Time Fished: 1488 sec	Drainage: 2.9 sq mi	
Dist Fished: 0.15 km	Basin: Great Miami 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
Western Blacknose Dace	N	G	S	T	107	214.00	28.84			
Creek Chub	N	G	N	T	75	150.00	20.22			
Central Stoneroller	N	H	N		127	254.00	34.23			
Yellow Bullhead		I	C	T	1	2.00	0.27			
Largemouth Bass	F	C	C		3	6.00	0.81			
Green Sunfish	S	I	C	T	8	16.00	2.16			
Orangethroat Darter	D	I	S		41	82.00	11.05			
Mottled Sculpin		I	C		9	18.00	2.43			
Mile Total					371	742.00				
Number of Species					8					
Number of Hybrids					0					

River Code: **14-077**	Stream: **Bluejacket Creek**	Sample Date: **2008**
River Mile: **5.50**	Location: upst. Co. Rd. 11 (upstream crossing)	Date Range: 07/09/2008
Time Fished: 2123 sec	Drainage: 3.9 sq mi	
Dist Fished: 0.15 km	Basin: Great Miami 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	16	32.00	1.48			
Western Blacknose Dace	N	G	S	T	319	638.00	29.56			
Creek Chub	N	G	N	T	150	300.00	13.90			
Bluntnose Minnow	N	O	C	T	4	8.00	0.37			
Central Stoneroller	N	H	N		503	1,006.00	46.62			
Green Sunfish	S	I	C	T	15	30.00	1.39			
Greenside Darter	D	I	S	M	2	4.00	0.19			
Rainbow Darter	D	I	S	M	40	80.00	3.71			
Mottled Sculpin		I	C		30	60.00	2.78			
Mile Total					1,079	2,158.00				
Number of Species					9					
Number of Hybrids					0					

River Code: **14-077**	Stream: **Bluejacket Creek**	Sample Date: **2008**
River Mile: **0.70**	Location: Twp. Rd. 31	Date Range: 07/10/2008
Time Fished: 1868 sec	Drainage: 13.6 sq mi	
Dist Fished: 0.15 km	Basin: Great Miami 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	0.09			
Northern Hog Sucker	R	I	S	M	23	46.00	1.96			
White Sucker	W	O	S	T	30	60.00	2.55			
Common Carp	G	O	M	T	1	2.00	0.09			
Hornyhead Chub	N	I	N	I	82	164.00	6.98			
Western Blacknose Dace	N	G	S	T	24	48.00	2.04			
Creek Chub	N	G	N	T	134	268.00	11.40			
Emerald Shiner	N	I	M		9	18.00	0.77			
Striped Shiner	N	I	S		64	128.00	5.45			
Bluntnose Minnow	N	O	C	T	18	36.00	1.53			
Central Stoneroller	N	H	N		697	1,394.00	59.32			
Stonecat Madtom		I	C	I	1	2.00	0.09			
Rock Bass	S	C	C		2	4.00	0.17			
Smallmouth Bass	F	C	C	M	1	2.00	0.09			
Green Sunfish	S	I	C	T	14	28.00	1.19			
Blackside Darter	D	I	S		3	6.00	0.26			
Logperch	D	I	S	M	1	2.00	0.09			
Greenside Darter	D	I	S	M	37	74.00	3.15			
Orangethroat Darter	D	I	S		17	34.00	1.45			
Mottled Sculpin		I	C		16	32.00	1.36			
Mile Total					1,175	2,350.00				
Number of Species					20					
Number of Hybrids					0					

River Code: **14-078**	Stream: **Rum Creek**	Sample Date: **2008**
River Mile: **8.60**	Location:	Date Range: 07/16/2008
Time Fished: 1800 sec	Drainage: 8.2 sq mi	
Dist Fished: 0.13 km	Basin: Great Miami 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	8	18.46	2.94			
Common Carp	G	O	M	T	5	11.54	1.84			
Redfin Shiner	N	I	N		4	9.23	1.47			
Striped Shiner	N	I	S		6	13.85	2.21			
Bluntnose Minnow	N	O	C	T	32	73.85	11.76			
Yellow Bullhead		I	C	T	5	11.54	1.84			
Tadpole Madtom		I	C		2	4.62	0.74			
Blackstripe Topminnow		I	M		25	57.69	9.19			
Largemouth Bass	F	C	C		1	2.31	0.37			
Green Sunfish	S	I	C	T	175	403.85	64.34			
Longear Sunfish	S	I	C	M	9	20.77	3.31			
Mile Total					272	627.69				
Number of Species					11					
Number of Hybrids					0					

River Code: **14-078**	Stream: **Rum Creek**	Sample Date: **2008**
River Mile: **6.60**	Location:	Date Range: 07/16/2008
Time Fished: 1800 sec	Drainage: 15.3 sq mi	
Dist Fished: 0.15 km	Basin: Great Miami 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	3	6.00	0.75			
Redfin Shiner	N	I	N		32	64.00	7.96			
Striped Shiner	N	I	S		50	100.00	12.44			
Sand Shiner	N	I	M	M	1	2.00	0.25			
Silverjaw Minnow	N	I	M		40	80.00	9.95			
Bluntnose Minnow	N	O	C	T	198	396.00	49.25			
Blackstripe Topminnow		I	M		5	10.00	1.24			
Green Sunfish	S	I	C	T	7	14.00	1.74			
Bluegill Sunfish	S	I	C	P	5	10.00	1.24			
Longear Sunfish	S	I	C	M	4	8.00	1.00			
Johnny Darter	D	I	C		37	74.00	9.20			
Greenside Darter	D	I	S	M	16	32.00	3.98			
Rainbow Darter	D	I	S	M	2	4.00	0.50			
Fantail Darter	D	I	C		2	4.00	0.50			
Mile Total					402	804.00				
Number of Species					14					
Number of Hybrids					0					

River Code: **14-078**	Stream: **Rum Creek**	Sample Date: **2008**
River Mile: **0.80**	Location:	Date Range: 07/16/2008
Time Fished: 2905 sec	Drainage: 27.2 sq mi	Thru: 08/27/2008
Dist Fished: 0.40 km	Basin: Great Miami 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	14	10.50	1.73	0.19	1.31	18.02
Northern Hog Sucker	R	I	S	M	2	1.50	0.25	0.09	0.60	57.50
White Sucker	W	O	S	T	5	3.75	0.62	0.08	0.57	22.00
Common Carp	G	O	M	T	5	3.75	0.62	8.97	62.35	2,391.60
Hornyhead Chub	N	I	N	I	4	3.00	0.50	0.04	0.28	13.25
Creek Chub	N	G	N	T	6	4.50	0.74	0.03	0.24	7.50
Redfin Shiner	N	I	N		72	54.00	8.91	0.12	0.80	2.14
Striped Shiner	N	I	S		124	93.00	15.35	1.04	7.21	11.15
Bluntnose Minnow	N	O	C	T	232	174.00	28.71	0.33	2.32	1.92
Blackstripe Topminnow		I	M		2	1.50	0.25	0.01	0.05	5.00
Rock Bass	S	C	C		28	21.00	3.47	1.44	9.98	68.36
Smallmouth Bass	F	C	C	M	6	4.50	0.74	0.22	1.49	47.67
Largemouth Bass	F	C	C		4	3.00	0.50	0.08	0.53	25.25
Green Sunfish	S	I	C	T	18	13.50	2.23	0.17	1.15	12.22
Bluegill Sunfish	S	I	C	P	1	0.75	0.12	0.01	0.08	15.00
Longear Sunfish	S	I	C	M	91	68.25	11.26	1.24	8.61	18.15
Blackside Darter	D	I	S		21	15.75	2.60	0.05	0.35	3.14
Logperch	D	I	S	M	8	6.00	0.99	0.08	0.54	12.88
Johnny Darter	D	I	C		42	31.50	5.20	0.05	0.32	1.45
Greenside Darter	D	I	S	M	58	43.50	7.18	0.09	0.62	2.05
Rainbow Darter	D	I	S	M	30	22.50	3.71	0.05	0.33	2.14
Fantail Darter	D	I	C		35	26.25	4.33	0.04	0.29	1.54
	Mile Total				808	606.00		14.38		
	Number of Species				22					
	Number of Hybrids				0					

River Code: **14-083**	Stream: **Brandywine Creek**	Sample Date: **2008**
River Mile: **0.60**	Location:	Date Range: 07/16/2008
Time Fished: 1800 sec	Drainage: 8.8 sq mi	
Dist Fished: 0.13 km	Basin: Great Miami 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
Central Mudminnow		I	C	T	3	6.92	0.46			
Redfin Pickerel		P	M	P	1	2.31	0.15			
White Sucker	W	O	S	T	13	30.00	2.00			
Common Carp	G	O	M	T	7	16.15	1.08			
Hornyhead Chub	N	I	N	I	14	32.31	2.15			
Creek Chub	N	G	N	T	8	18.46	1.23			
Striped Shiner	N	I	S		225	519.23	34.56			
Sand Shiner	N	I	M	M	7	16.15	1.08			
Silverjaw Minnow	N	I	M		19	43.85	2.92			
Bluntnose Minnow	N	O	C	T	170	392.31	26.11			
Central Stoneroller	N	H	N		36	83.08	5.53			
Yellow Bullhead		I	C	T	9	20.77	1.38			
Tadpole Madtom		I	C		1	2.31	0.15			
Blackstripe Topminnow		I	M		26	60.00	3.99			
Largemouth Bass	F	C	C		3	6.92	0.46			
Green Sunfish	S	I	C	T	3	6.92	0.46			
Bluegill Sunfish	S	I	C	P	3	6.92	0.46			
Longear Sunfish	S	I	C	M	71	163.85	10.91			
Blackside Darter	D	I	S		1	2.31	0.15			
Johnny Darter	D	I	C		10	23.08	1.54			
Rainbow Darter	D	I	S	M	13	30.00	2.00			
Orangethroat Darter	D	I	S		2	4.62	0.31			
Fantail Darter	D	I	C		4	9.23	0.61			
Mottled Sculpin		I	C		2	4.62	0.31			
Mile Total					651	1,502.31				
Number of Species					24					
Number of Hybrids					0					

River Code: **14-084**	Stream: **Cherokee Mans Run**	Sample Date: **2008**
River Mile: **7.60**	Location:	Date Range: 07/14/2008
Time Fished: 2296 sec	Drainage: 8.5 sq mi	
Dist Fished: 0.15 km	Basin: Great Miami 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	0.67			
White Sucker	W	O	S	T	5	10.00	1.68			
Western Blacknose Dace	N	G	S	T	10	20.00	3.37			
Creek Chub	N	G	N	T	45	90.00	15.15			
Redside Dace	N	I	S	I	4	8.00	1.35			
Striped Shiner	N	I	S		6	12.00	2.02			
Central Stoneroller	N	H	N		29	58.00	9.76			
Blackstripe Topminnow		I	M		1	2.00	0.34			
Green Sunfish	S	I	C	T	2	4.00	0.67			
Bluegill Sunfish	S	I	C	P	4	8.00	1.35			
Rainbow Darter	D	I	S	M	35	70.00	11.78			
Orangethroat Darter	D	I	S		11	22.00	3.70			
Mottled Sculpin		I	C		143	286.00	48.15			
	Mile Total				297	594.00				
	Number of Species				13					
	Number of Hybrids				0					

River Code: **14-084**	Stream: **Cherokee Mans Run**	Sample Date: **2008**
River Mile: **3.50**	Location:	Date Range: 07/15/2008
Time Fished: 1800 sec	Drainage: 14.6 sq mi	
Dist Fished: 0.15 km	Basin: Great Miami 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	28	56.00	3.14			
White Sucker	W	O	S	T	80	160.00	8.96			
Common Carp	G	O	M	T	3	6.00	0.34			
Western Blacknose Dace	N	G	S	T	46	92.00	5.15			
Creek Chub	N	G	N	T	175	350.00	19.60			
Redside Dace	N	I	S	I	16	32.00	1.79			
Striped Shiner	N	I	S		13	26.00	1.46			
Fathead Minnow	N	O	C	T	3	6.00	0.34			
Bluntnose Minnow	N	O	C	T	29	58.00	3.25			
Central Stoneroller	N	H	N		298	596.00	33.37			
Green Sunfish	S	I	C	T	3	6.00	0.34			
Bluegill Sunfish	S	I	C	P	1	2.00	0.11			
Johnny Darter	D	I	C		2	4.00	0.22			
Greenside Darter	D	I	S	M	18	36.00	2.02			
Rainbow Darter	D	I	S	M	56	112.00	6.27			
Mottled Sculpin		I	C		122	244.00	13.66			
	Mile Total				893	1,786.00				
	Number of Species				16					
	Number of Hybrids				0					

River Code: **14-092**	Stream: **Trib. to Great Miami R. (RM 157.34)**	Sample Date: **2008**
River Mile: **0.10**	Location:	Date Range: 08/13/2008
Time Fished: 1800 sec	Drainage: 7.6 sq mi	
Dist Fished: 0.20 km	Basin: Great Miami 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		645	967.50	54.94			
Central Mudminnow		I	C	T	1	1.50	0.09			
Quillback	C	O	M		7	10.50	0.60			
White Sucker	W	O	S	T	4	6.00	0.34			
Spotted Sucker	R	I	S		7	10.50	0.60			
Common Carp	G	O	M	T	108	162.00	9.20			
Golden Shiner	N	I	M	T	1	1.50	0.09			
Channel Catfish	F		C		13	19.50	1.11			
Yellow Bullhead		I	C	T	5	7.50	0.43			
Brown Bullhead		I	C	T	83	124.50	7.07			
Black Bullhead		I	C	P	12	18.00	1.02			
Tadpole Madtom		I	C		2	3.00	0.17			
Blackstripe Topminnow		I	M		3	4.50	0.26			
Brook Silverside		I	M	M	11	16.50	0.94			
White Bass	F	P	M		1	1.50	0.09			
White Crappie	S	I	C		23	34.50	1.96			
Largemouth Bass	F	C	C		31	46.50	2.64			
Green Sunfish	S	I	C	T	48	72.00	4.09			
Bluegill Sunfish	S	I	C	P	6	9.00	0.51			
Orangespotted Sunfish	S	I	C		66	99.00	5.62			
Yellow Perch			M		90	135.00	7.67			
Sauger X Walleye	E	P			7	10.50	0.60			
Mile Total					1,174	1,761.00				
Number of Species					21					
Number of Hybrids					1					

River Code: **14-199**	Stream: **Rennick Creek**	Sample Date: **2008**
River Mile: **0.30**	Location:	Date Range: 07/16/2008
Time Fished: 1800 sec	Drainage: 10.3 sq mi	
Dist Fished: 0.15 km	Basin: Great Miami 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
Central Mudminnow		I	C	T	16	32.00	21.62			
Redfin Pickerel		P	M	P	2	4.00	2.70			
Northern Pike	F	P	M		1	2.00	1.35			
White Sucker	W	O	S	T	4	8.00	5.41			
Creek Chub	N	G	N	T	3	6.00	4.05			
Striped Shiner	N	I	S		2	4.00	2.70			
Bluntnose Minnow	N	O	C	T	16	32.00	21.62			
Largemouth Bass	F	C	C		3	6.00	4.05			
Green Sunfish	S	I	C	T	13	26.00	17.57			
Bluegill Sunfish	S	I	C	P	1	2.00	1.35			
Yellow Perch			M		4	8.00	5.41			
Johnny Darter	D	I	C		2	4.00	2.70			
Mottled Sculpin		I	C		7	14.00	9.46			
Mile Total					74	148.00				
Number of Species					13					
Number of Hybrids					0					

River Code: **14-600**	Stream: **Loramie Creek**	Sample Date: **2008**
River Mile: **36.90**	Location:	Date Range: 08/12/2008
Time Fished: 1800 sec	Drainage: 6.8 sq mi	
Dist Fished: 0.15 km	Basin: Great Miami 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		8	16.00	1.77			
White Sucker	W	O	S	T	73	146.00	16.15			
Creek Chub	N	G	N	T	95	190.00	21.02			
Fathead Minnow	N	O	C	T	1	2.00	0.22			
Bluntnose Minnow	N	O	C	T	89	178.00	19.69			
Central Stoneroller	N	H	N		54	108.00	11.95			
Tadpole Madtom		I	C		1	2.00	0.22			
Blackstripe Topminnow		I	M		122	244.00	26.99			
Largemouth Bass	F	C	C		1	2.00	0.22			
Green Sunfish	S	I	C	T	1	2.00	0.22			
Bluegill Sunfish	S	I	C	P	5	10.00	1.11			
Johnny Darter	D	I	C		2	4.00	0.44			
Mile Total					452	904.00				
Number of Species					12					
Number of Hybrids					0					

River Code: **14-600**	Stream: **Loramie Creek**	Sample Date: **2008**
River Mile: **35.00**	Location: Lock Two Rd.	Date Range: 08/12/2008
Time Fished: 1436 sec	Drainage: 15.9 sq mi	
Dist Fished: 0.15 km	Basin: Great Miami 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		2	4.00	0.96			
White Sucker	W	O	S	T	35	70.00	16.83			
Common Carp	G	O	M	T	15	30.00	7.21			
Golden Shiner	N	I	M	T	1	2.00	0.48			
Creek Chub	N	G	N	T	11	22.00	5.29			
Bluntnose Minnow	N	O	C	T	9	18.00	4.33			
Central Stoneroller	N	H	N		5	10.00	2.40			
Yellow Bullhead		I	C	T	3	6.00	1.44			
Tadpole Madtom		I	C		3	6.00	1.44			
Blackstripe Topminnow		I	M		83	166.00	39.90			
White Crappie	S	I	C		1	2.00	0.48			
Largemouth Bass	F	C	C		1	2.00	0.48			
Green Sunfish	S	I	C	T	23	46.00	11.06			
Bluegill Sunfish	S	I	C	P	16	32.00	7.69			
Mile Total					208	416.00				
Number of Species					14					
Number of Hybrids					0					

River Code: **14-600**	Stream: **Loramie Creek**	Sample Date: **2008**
River Mile: **30.40**	Location:	Date Range: 07/07/2008
Time Fished: 3241 sec	Drainage: 35.0 sq mi	Thru: 09/04/2008
Dist Fished: 0.40 km	Basin: Great Miami 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		542	406.50	70.12	3.71	9.16	9.13
White Sucker	W	O	S	T	13	9.75	1.68	2.02	4.98	206.92
Common Carp	G	O	M	T	9	6.75	1.16	19.94	49.21	2,954.44
Bluntnose Minnow	N	O	C	T	1	0.75	0.13	0.00	0.01	3.00
Channel Catfish	F		C		13	9.75	1.68	5.90	14.56	605.27
Yellow Bullhead		I	C	T	6	4.50	0.78	0.56	1.37	123.33
Tadpole Madtom		I	C		1	0.75	0.13	0.00	0.01	3.00
Blackstripe Topminnow		I	M		3	2.25	0.39	0.01	0.01	2.67
Black Crappie	S	I	C		3	2.25	0.39	0.18	0.44	79.00
Largemouth Bass	F	C	C		18	13.50	2.33	3.96	9.77	293.27
Green Sunfish	S	I	C	T	42	31.50	5.43	0.61	1.50	19.29
Bluegill Sunfish	S	I	C	P	114	85.50	14.75	3.10	7.66	36.30
Orangespotted Sunfish	S	I	C		1	0.75	0.13	0.00	0.01	4.00
Redear Sunfish	E	I	C		2	1.50	0.26	0.12	0.30	81.00
Pumpkinseed Sunfish	S	I	C	P	2	1.50	0.26	0.06	0.14	39.00
Green Sf X Bluegill Sf					1	0.75	0.13	0.05	0.11	60.00
Sauger X Walleye	E	P			2	1.50	0.26	0.32	0.78	210.00
	Mile Total				773	579.75		40.53		
	Number of Species				15					
	Number of Hybrids				2					

River Code: **14-600**	Stream: **Loramie Creek**	Sample Date: **2008**
River Mile: **22.10**	Location:	Date Range: 07/07/2008
Time Fished: 4058 sec	Drainage: 77.7 sq mi	Thru: 08/21/2008
Dist Fished: 0.40 km	Basin: Great Miami 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		51	38.25	3.01	3.90	2.94	101.96
Redfin Pickerel		P	M	P	2	1.50	0.12	0.01	0.01	7.00
Quillback	C	O	M		47	35.25	2.78	12.17	9.18	345.36
River Carpsucker	C	O	M		5	3.75	0.30	1.48	1.11	393.75
Golden Redhorse	R	I	S	M	5	3.75	0.30	0.78	0.59	207.20
Northern Hog Sucker	R	I	S	M	1	0.75	0.06	0.05	0.04	63.00
White Sucker	W	O	S	T	7	5.25	0.41	1.12	0.84	212.43
Spotted Sucker	R	I	S		7	5.25	0.41	1.11	0.84	211.57
Common Carp	G	O	M	T	31	23.25	1.83	41.54	31.32	1,786.72
Goldfish	G	O	M	T	7	5.25	0.41	0.79	0.60	150.43
Golden Shiner	N	I	M	T	4	3.00	0.24	0.03	0.03	11.25
Suckermouth Minnow	N	I	S		5	3.75	0.30	0.02	0.01	4.00
Striped Shiner	N	I	S		9	6.75	0.53	0.11	0.08	15.89
Silverjaw Minnow	N	I	M		2	1.50	0.12	0.00	0.00	1.50
Fathead Minnow	N	O	C	T	2	1.50	0.12	0.00	0.00	1.00
Bluntnose Minnow	N	O	C	T	57	42.75	3.37	0.12	0.09	2.69
Common Carp X Goldfish	G	O		T	1	0.75	0.06	0.30	0.23	400.00
Channel Catfish	F		C		138	103.50	8.16	33.82	25.50	326.80
Yellow Bullhead		I	C	T	35	26.25	2.07	1.43	1.07	54.29
Brown Bullhead		I	C	T	12	9.00	0.71	0.83	0.62	91.67
Black Bullhead		I	C	P	5	3.75	0.30	0.31	0.23	81.80
Blackstripe Topminnow		I	M		2	1.50	0.12	0.00	0.00	2.50
Brook Silverside		I	M	M	5	3.75	0.30	0.01	0.01	2.00
White Crappie	S	I	C		84	63.00	4.96	1.64	1.24	26.04
Black Crappie	S	I	C		38	28.50	2.25	0.62	0.47	21.71
Largemouth Bass	F	C	C		31	23.25	1.83	1.58	1.19	67.77
Green Sunfish	S	I	C	T	220	165.00	13.00	3.92	2.96	23.78
Bluegill Sunfish	S	I	C	P	614	460.50	36.29	17.26	13.01	37.48
Orangespotted Sunfish	S	I	C		167	125.25	9.87	1.44	1.09	11.51
Pumpkinseed Sunfish	S	I	C	P	35	26.25	2.07	0.75	0.57	28.60
Green Sf X Bluegill Sf					11	8.25	0.65	0.47	0.35	56.36
Hybrid X Sunfish					13	9.75	0.77	0.33	0.25	33.70
Yellow Perch			M		2	1.50	0.12	0.00	0.00	1.00
Greenside Darter	D	I	S	M	21	15.75	1.24	0.06	0.04	3.57
Sauger X Walleye	E	P			16	12.00	0.95	4.68	3.53	389.99
	Mile Total				1,692	1,269.00		132.65		
	Number of Species				31					
	Number of Hybrids				4					

River Code: **14-600**	Stream: **Loramie Creek**	Sample Date: **2008**
River Mile: **20.70**	Location: St. Rt. 66	Date Range: 07/07/2008
Time Fished: 3600 sec	Drainage: 82.0 sq mi	Thru: 08/23/2008
Dist Fished: 0.40 km	Basin: Great Miami 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		31	23.25	2.70	0.65	1.22	28.06
Quillback	C	O	M		32	24.00	2.78	4.38	8.20	182.66
Golden Redhorse	R	I	S	M	9	6.75	0.78	0.86	1.61	127.22
Northern Hog Sucker	R	I	S	M	27	20.25	2.35	1.51	2.82	74.60
White Sucker	W	O	S	T	8	6.00	0.70	1.26	2.36	210.00
Common Carp	G	O	M	T	10	7.50	0.87	10.54	19.70	1,405.20
Goldfish	G	O	M	T	3	2.25	0.26	0.45	0.84	200.00
River Chub	N	I	N	I	1	0.75	0.09	0.02	0.04	30.00
Spotfin Shiner	N	I	M		7	5.25	0.61	0.02	0.04	4.57
Sand Shiner	N	I	M	M	3	2.25	0.26	0.01	0.01	2.33
Bluntnose Minnow	N	O	C	T	39	29.25	3.39	0.07	0.14	2.50
Common Carp X Goldfish	G	O		T	14	10.50	1.22	2.25	4.20	213.86
Channel Catfish	F		C		77	57.75	6.70	10.44	19.52	180.80
Yellow Bullhead		I	C	T	40	30.00	3.48	3.03	5.66	101.00
Blackstripe Topminnow		I	M		6	4.50	0.52	0.02	0.03	3.33
White Crappie	S	I	C		4	3.00	0.35	0.03	0.05	8.25
Black Crappie	S	I	C		4	3.00	0.35	0.07	0.14	24.75
Smallmouth Bass	F	C	C	M	3	2.25	0.26	0.79	1.48	352.67
Largemouth Bass	F	C	C		7	5.25	0.61	0.42	0.79	80.00
Green Sunfish	S	I	C	T	467	350.25	40.61	7.04	13.16	20.10
Bluegill Sunfish	S	I	C	P	237	177.75	20.61	5.69	10.64	32.03
Orangespotted Sunfish	S	I	C		43	32.25	3.74	0.18	0.33	5.47
Pumpkinseed Sunfish	S	I	C	P	6	4.50	0.52	0.08	0.14	16.67
Green Sf X Bluegill Sf					8	6.00	0.70	0.38	0.70	62.63
Hybrid X Sunfish					48	36.00	4.17	1.50	2.80	41.66
Greenside Darter	D	I	S	M	9	6.75	0.78	0.06	0.11	8.33
Sauger X Walleye	E	P			7	5.25	0.61	1.76	3.28	334.29
	Mile Total				1,150	862.50		53.49		
	Number of Species				23					
	Number of Hybrids				4					

River Code: **14-600**	Stream: **Loramie Creek**	Sample Date: **2008**
River Mile: **19.30**	Location:	Date Range: 09/04/2008
Time Fished: 1444 sec	Drainage: 147.0 sq mi	
Dist Fished: 0.20 km	Basin: Great Miami 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
Quillback	C	O	M		1	1.50	0.25	0.19	0.83	123.00
Golden Redhorse	R	I	S	M	13	19.50	3.19	1.99	8.89	102.00
Northern Hog Sucker	R	I	S	M	14	21.00	3.43	1.75	7.82	83.36
Common Carp	G	O	M	T	2	3.00	0.49	5.28	23.59	1,760.00
Striped Shiner	N	I	S		2	3.00	0.49	0.07	0.32	23.50
Spotfin Shiner	N	I	M		8	12.00	1.96	0.03	0.14	2.63
Sand Shiner	N	I	M	M	4	6.00	0.98	0.02	0.08	2.75
Bluntnose Minnow	N	O	C	T	23	34.50	5.64	0.02	0.08	0.48
Channel Catfish	F		C		4	6.00	0.98	2.28	10.18	379.75
Yellow Bullhead		I	C	T	11	16.50	2.70	1.62	7.25	98.27
Tadpole Madtom		I	C		1	1.50	0.25	0.01	0.03	4.00
Blackstripe Topminnow		I	M		68	102.00	16.67	0.10	0.44	0.97
Smallmouth Bass	F	C	C	M	4	6.00	0.98	0.75	3.35	124.75
Largemouth Bass	F	C	C		1	1.50	0.25	0.63	2.83	422.00
Green Sunfish	S	I	C	T	104	156.00	25.49	2.71	12.11	17.38
Bluegill Sunfish	S	I	C	P	75	112.50	18.38	2.91	12.99	25.84
Orangespotted Sunfish	S	I	C		39	58.50	9.56	0.46	2.03	7.77
Pumpkinseed Sunfish	S	I	C	P	14	21.00	3.43	0.44	1.95	20.79
Green Sf X Bluegill Sf					8	12.00	1.96	0.83	3.71	69.13
Hybrid X Sunfish					7	10.50	1.72	0.25	1.11	23.57
Greenside Darter	D	I	S	M	5	7.50	1.23	0.07	0.32	9.60
	Mile Total				408	612.00		22.38		
	Number of Species				19					
	Number of Hybrids				2					

River Code: **14-600**	Stream: **Loramie Creek**	Sample Date: **2008**
River Mile: **18.90**	Location:	Date Range: 07/08/2008
Time Fished: 2828 sec	Drainage: 148.0 sq mi	Thru: 09/02/2008
Dist Fished: 0.40 km	Basin: Great Miami 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		31	23.25	6.60	3.17	7.83	136.29
Quillback	C	O	M		18	13.50	3.83	5.26	13.00	389.83
Golden Redhorse	R	I	S	M	16	12.00	3.40	2.47	6.11	206.00
Northern Hog Sucker	R	I	S	M	1	0.75	0.21	0.02	0.06	30.00
White Sucker	W	O	S	T	5	3.75	1.06	0.69	1.71	184.60
Common Carp	G	O	M	T	14	10.50	2.98	19.38	47.87	1,845.29
Spotfin Shiner	N	I	M		2	1.50	0.43	0.00	0.01	2.00
Sand Shiner	N	I	M	M	2	1.50	0.43	0.00	0.01	2.50
Bluntnose Minnow	N	O	C	T	45	33.75	9.57	0.10	0.23	2.81
Common Carp X Goldfish	G	O		T	5	3.75	1.06	1.35	3.33	359.00
Channel Catfish	F		C		22	16.50	4.68	2.76	6.82	167.32
Yellow Bullhead		I	C	T	6	4.50	1.28	0.53	1.30	117.17
Blackstripe Topminnow		I	M		1	0.75	0.21	0.00	0.00	2.00
White Crappie	S	I	C		9	6.75	1.91	0.10	0.24	14.67
Black Crappie	S	I	C		5	3.75	1.06	0.11	0.27	29.60
Smallmouth Bass	F	C	C	M	1	0.75	0.21	0.18	0.44	235.00
Largemouth Bass	F	C	C		5	3.75	1.06	0.31	0.75	81.40
Green Sunfish	S	I	C	T	116	87.00	24.68	1.20	2.97	13.84
Bluegill Sunfish	S	I	C	P	58	43.50	12.34	1.03	2.53	23.58
Orangespotted Sunfish	S	I	C		84	63.00	17.87	0.35	0.86	5.53
Longear Sunfish	S	I	C	M	1	0.75	0.21	0.01	0.02	10.00
Green Sf X Bluegill Sf					4	3.00	0.85	0.07	0.17	22.50
Yellow Perch			M		5	3.75	1.06	0.02	0.05	4.80
Greenside Darter	D	I	S	M	9	6.75	1.91	0.02	0.04	2.22
Sauger X Walleye	E	P			5	3.75	1.06	1.37	3.38	364.40
	Mile Total				470	352.50		40.48		
	Number of Species				22					
	Number of Hybrids				3					

River Code: **14-600**	Stream: **Loramie Creek**	Sample Date: **2008**
River Mile: **14.80**	Location: St. Rt. 66	Date Range: 07/08/2008
Time Fished: 4602 sec	Drainage: 157.0 sq mi	Thru: 08/26/2008
Dist Fished: 0.40 km	Basin: Great Miami 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		1	0.75	0.04	0.06	0.12	80.00
Quillback	C	O	M		2	1.50	0.08	0.24	0.49	161.00
Golden Redhorse	R	I	S	M	5	3.75	0.21	0.14	0.27	36.00
Northern Hog Sucker	R	I	S	M	84	63.00	3.45	3.78	7.67	60.02
White Sucker	W	O	S	T	35	26.25	1.44	0.73	1.48	27.75
Common Carp	G	O	M	T	1	0.75	0.04	1.04	2.10	1,380.00
Goldfish	G	O	M	T	5	3.75	0.21	0.45	0.92	121.00
River Chub	N	I	N	I	1	0.75	0.04	0.03	0.06	40.00
Creek Chub	N	G	N	T	3	2.25	0.12	0.01	0.02	3.33
Suckermouth Minnow	N	I	S		55	41.25	2.26	0.25	0.50	6.01
Striped Shiner	N	I	S		160	120.00	6.56	2.56	5.19	21.32
Spotfin Shiner	N	I	M		45	33.75	1.85	0.13	0.27	3.95
Sand Shiner	N	I	M	M	159	119.25	6.52	0.20	0.41	1.69
Bluntnose Minnow	N	O	C	T	499	374.25	20.47	1.42	2.88	3.79
Central Stoneroller	N	H	N		9	6.75	0.37	0.10	0.20	14.78
Common Carp X Goldfish	G	O		T	9	6.75	0.37	1.00	2.03	148.00
Channel Catfish	F		C		114	85.50	4.68	15.01	30.45	175.50
Yellow Bullhead		I	C	T	153	114.75	6.28	7.09	14.39	61.81
Tadpole Madtom		I	C		2	1.50	0.08	0.02	0.03	10.50
Blackstripe Topminnow		I	M		6	4.50	0.25	0.01	0.01	1.60
Brook Silverside		I	M	M	1	0.75	0.04	0.00	0.00	1.00
Rock Bass	S	C	C		4	3.00	0.16	0.09	0.17	28.25
Smallmouth Bass	F	C	C	M	33	24.75	1.35	1.75	3.55	70.67
Largemouth Bass	F	C	C		2	1.50	0.08	0.23	0.47	155.00
Green Sunfish	S	I	C	T	710	532.50	29.12	11.01	22.34	20.67
Bluegill Sunfish	S	I	C	P	36	27.00	1.48	0.45	0.90	16.50
Orangespotted Sunfish	S	I	C		8	6.00	0.33	0.04	0.09	7.13
Longear Sunfish	S	I	C	M	3	2.25	0.12	0.04	0.08	18.33
Pumpkinseed Sunfish	S	I	C	P	1	0.75	0.04	0.01	0.02	13.00
Green Sf X Bluegill Sf					8	6.00	0.33	0.59	1.20	98.50
Greenside Darter	D	I	S	M	274	205.50	11.24	0.80	1.63	3.90
Rainbow Darter	D	I	S	M	10	7.50	0.41	0.01	0.03	1.80
	Mile Total				2,438	1,828.50		49.28		
	Number of Species				30					
	Number of Hybrids				2					

River Code: **14-600**	Stream: **Loramie Creek**	Sample Date: **2008**
River Mile: **7.50**	Location: Loramie-Washington Rd.	Date Range: 07/22/2008
Time Fished: 3749 sec	Drainage: 205.0 sq mi	Thru: 08/23/2008
Dist Fished: 0.40 km	Basin: Great Miami 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		13	9.75	1.26	1.97	3.21	202.46
Quillback	C	O	M		15	11.25	1.45	5.99	9.73	532.27
Golden Redhorse	R	I	S	M	100	75.00	9.66	12.26	19.93	163.47
Northern Hog Sucker	R	I	S	M	57	42.75	5.51	5.52	8.96	129.00
White Sucker	W	O	S	T	19	14.25	1.84	0.77	1.25	54.11
Common Carp	G	O	M	T	1	0.75	0.10	2.18	3.53	2,900.00
River Chub	N	I	N	I	1	0.75	0.10	0.02	0.04	30.00
Silver Shiner	N	I	S	I	1	0.75	0.10	0.01	0.01	12.00
Striped Shiner	N	I	S		17	12.75	1.64	0.09	0.15	7.35
Spotfin Shiner	N	I	M		5	3.75	0.48	0.02	0.03	5.60
Sand Shiner	N	I	M	M	3	2.25	0.29	0.01	0.01	3.33
Bluntnose Minnow	N	O	C	T	59	44.25	5.70	0.12	0.19	2.65
Channel Catfish	F		C		57	42.75	5.51	10.56	17.15	246.91
Yellow Bullhead		I	C	T	132	99.00	12.75	8.56	13.91	86.44
Blackstripe Topminnow		I	M		2	1.50	0.19	0.01	0.01	3.50
White Crappie	S	I	C		1	0.75	0.10	0.06	0.10	80.00
Black Crappie	S	I	C		3	2.25	0.29	0.10	0.16	44.00
Rock Bass	S	C	C		11	8.25	1.06	0.42	0.69	51.27
Smallmouth Bass	F	C	C	M	33	24.75	3.19	3.33	5.42	134.68
Largemouth Bass	F	C	C		1	0.75	0.10	0.03	0.06	45.00
Green Sunfish	S	I	C	T	269	201.75	25.99	5.90	9.58	29.23
Bluegill Sunfish	S	I	C	P	66	49.50	6.38	1.12	1.82	22.62
Longear Sunfish	S	I	C	M	62	46.50	5.99	0.76	1.24	16.42
Pumpkinseed Sunfish	S	I	C	P	12	9.00	1.16	0.12	0.19	13.25
Green Sf X Bluegill Sf					29	21.75	2.80	1.15	1.87	52.90
Green Sf X Longear Sf					1	0.75	0.10	0.02	0.02	20.00
Logperch	D	I	S	M	21	15.75	2.03	0.29	0.47	18.19
Greenside Darter	D	I	S	M	44	33.00	4.25	0.16	0.26	4.86
	Mile Total				1,035	776.25		61.53		
	Number of Species				26					
	Number of Hybrids				2					

River Code: **14-600**	Stream: **Loramie Creek**	Sample Date: **2008**
River Mile: **1.80**	Location: Fessler-Buxton Rd.	Date Range: 07/29/2008
Time Fished: 5438 sec	Drainage: 257.0 sq mi	Thru: 08/26/2008
Dist Fished: 0.40 km	Basin: Great Miami 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		32	24.00	2.26	3.32	4.23	138.38
Black Redhorse	R	I	S	I	4	3.00	0.28	1.02	1.30	340.75
Golden Redhorse	R	I	S	M	172	129.00	12.16	22.48	28.63	174.27
Northern Hog Sucker	R	I	S	M	66	49.50	4.67	6.39	8.13	128.99
White Sucker	W	O	S	T	7	5.25	0.50	0.75	0.96	143.43
Spotted Sucker	R	I	S		3	2.25	0.21	0.07	0.09	30.00
Smallmouth Redhorse	R	I	S	M	13	9.75	0.92	1.07	1.36	109.23
Common Carp	G	O	M	T	5	3.75	0.35	12.73	16.21	3,394.20
River Chub	N	I	N	I	22	16.50	1.56	0.39	0.50	23.55
Creek Chub	N	G	N	T	2	1.50	0.14	0.00	0.00	1.00
Suckermouth Minnow	N	I	S		10	7.50	0.71	0.01	0.01	1.53
Silver Shiner	N	I	S	I	2	1.50	0.14	0.00	0.01	3.00
Rosyface Shiner	N	I	S	I	3	2.25	0.21	0.01	0.01	3.50
Striped Shiner	N	I	S		105	78.75	7.43	0.43	0.55	5.45
Spotfin Shiner	N	I	M		41	30.75	2.90	0.12	0.15	3.90
Sand Shiner	N	I	M	M	1	0.75	0.07	0.00	0.00	2.00
Bluntnose Minnow	N	O	C	T	181	135.75	12.80	0.29	0.37	2.16
Central Stoneroller	N	H	N		54	40.50	3.82	0.95	1.21	23.37
Channel Catfish	F		C		35	26.25	2.48	9.71	12.37	370.00
Yellow Bullhead		I	C	T	23	17.25	1.63	2.29	2.91	132.55
Stonecat Madtom		I	C	I	5	3.75	0.35	0.07	0.08	17.60
White Crappie	S	I	C		5	3.75	0.35	0.57	0.72	151.40
Black Crappie	S	I	C		1	0.75	0.07	0.01	0.01	15.00
Rock Bass	S	C	C		28	21.00	1.98	2.02	2.57	96.27
Smallmouth Bass	F	C	C	M	13	9.75	0.92	1.71	2.18	175.85
Largemouth Bass	F	C	C		12	9.00	0.85	1.42	1.81	158.17
Green Sunfish	S	I	C	T	85	63.75	6.01	2.42	3.08	38.00
Bluegill Sunfish	S	I	C	P	150	112.50	10.61	2.36	3.00	20.94
Orangespotted Sunfish	S	I	C		10	7.50	0.71	0.04	0.06	5.90
Pumpkinseed Sunfish	S	I	C	P	5	3.75	0.35	0.06	0.07	15.20
Green Sf X Bluegill Sf					8	6.00	0.57	0.51	0.65	84.75
Blackside Darter	D	I	S		1	0.75	0.07	0.00	0.01	6.00
Logperch	D	I	S	M	64	48.00	4.53	0.47	0.60	9.78
Johnny Darter	D	I	C		2	1.50	0.14	0.00	0.01	2.50
Greenside Darter	D	I	S	M	86	64.50	6.08	0.24	0.31	3.73
Banded Darter	D	I	S	I	90	67.50	6.36	0.11	0.14	1.68
Rainbow Darter	D	I	S	M	47	35.25	3.32	0.06	0.08	1.82
Fantail Darter	D	I	C		1	0.75	0.07	0.00	0.00	2.00
Sauger X Walleye	E	P			20	15.00	1.41	4.42	5.63	294.50
	Mile Total				1,414	1,060.50		78.53		
	Number of Species				37					
	Number of Hybrids				2					

River: 14-600 Loramie Creek

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Hybrid X Sunfish					68	6.00	0.66	0.26	0.42	38.28
Yellow Perch			M		7	0.62	0.07	0.00	0.00	3.71
Blackside Darter	D	I	S		1	0.09	0.01	0.00	0.00	6.00
Logperch	D	I	S	M	85	7.50	0.83	0.10	0.16	11.86
Johnny Darter	D	I	C		4	0.41	0.05	0.00	0.00	2.50
Greenside Darter	D	I	S	M	448	39.53	4.37	0.18	0.29	4.07
Banded Darter	D	I	S	I	90	7.94	0.88	0.02	0.02	1.68
Rainbow Darter	D	I	S	M	57	5.03	0.56	0.01	0.02	1.82
Fantail Darter	D	I	C		1	0.09	0.01	0.00	0.00	2.00
Sauger X Walleye	E	P			50	4.41	0.49	1.67	2.68	334.24
Stream Total					10,040	905.29		62.36		
Number of Species					52					
Number of Hybrids					5					

River Code: **14-603**	Stream: **Turtle Creek**	Sample Date: **2008**
River Mile: **8.50**	Location:	Date Range: 08/11/2008
Time Fished: 1392 sec	Drainage: 8.4 sq mi	
Dist Fished: 0.15 km	Basin: Great Miami 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	1.89			
Goldfish	G	O	M	T	1	2.00	0.47			
Creek Chub	N	G	N	T	42	84.00	19.81			
Striped Shiner	N	I	S		13	26.00	6.13			
Silverjaw Minnow	N	I	M		1	2.00	0.47			
Fathead Minnow	N	O	C	T	56	112.00	26.42			
Bluntnose Minnow	N	O	C	T	16	32.00	7.55			
Central Stoneroller	N	H	N		16	32.00	7.55			
Yellow Bullhead		I	C	T	1	2.00	0.47			
Blackstripe Topminnow		I	M		41	82.00	19.34			
Largemouth Bass	F	C	C		6	12.00	2.83			
Green Sunfish	S	I	C	T	12	24.00	5.66			
Bluegill Sunfish	S	I	C	P	1	2.00	0.47			
Johnny Darter	D	I	C		2	4.00	0.94			
Mile Total					212	424.00				
Number of Species					14					
Number of Hybrids					0					

River Code: **14-603**	Stream: **Turtle Creek**	Sample Date: **2008**
River Mile: **5.70**	Location:	Date Range: 08/11/2008
Time Fished: 1724 sec	Drainage: 17.3 sq mi	
Dist Fished: 0.15 km	Basin: Great Miami 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	6	12.00	1.28			
White Sucker	W	O	S	T	33	66.00	7.05			
Western Blacknose Dace	N	G	S	T	34	68.00	7.26			
Creek Chub	N	G	N	T	100	200.00	21.37			
Silver Shiner	N	I	S	I	8	16.00	1.71			
Striped Shiner	N	I	S		95	190.00	20.30			
Silverjaw Minnow	N	I	M		2	4.00	0.43			
Fathead Minnow	N	O	C	T	1	2.00	0.21			
Bluntnose Minnow	N	O	C	T	23	46.00	4.91			
Central Stoneroller	N	H	N		80	160.00	17.09			
Yellow Bullhead		I	C	T	1	2.00	0.21			
Blackstripe Topminnow		I	M		2	4.00	0.43			
Largemouth Bass	F	C	C		4	8.00	0.85			
Green Sunfish	S	I	C	T	8	16.00	1.71			
Bluegill Sunfish	S	I	C	P	8	16.00	1.71			
Logperch	D	I	S	M	4	8.00	0.85			
Johnny Darter	D	I	C		12	24.00	2.56			
Greenside Darter	D	I	S	M	6	12.00	1.28			
Rainbow Darter	D	I	S	M	31	62.00	6.62			
Orangethroat Darter	D	I	S		3	6.00	0.64			
Fantail Darter	D	I	C		7	14.00	1.50			
	Mile Total				468	936.00				
	Number of Species				21					
	Number of Hybrids				0					

River Code: **14-603**	Stream: **Turtle Creek**	Sample Date: **2008**
River Mile: **0.50**	Location:	Date Range: 07/22/2008
Time Fished: 4151 sec	Drainage: 35.9 sq mi	Thru: 08/26/2008
Dist Fished: 0.40 km	Basin: Great Miami 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	11	8.25	1.30	0.13	0.75	16.27
Northern Hog Sucker	R	I	S	M	44	33.00	5.22	1.63	9.10	49.30
White Sucker	W	O	S	T	123	92.25	14.59	2.64	14.79	28.66
River Chub	N	I	N	I	2	1.50	0.24	0.03	0.17	20.00
Creek Chub	N	G	N	T	24	18.00	2.85	0.23	1.30	12.92
Silver Shiner	N	I	S	I	19	14.25	2.25	0.05	0.27	3.32
Scarlet Shiner	N	I	S	M	15	11.25	1.78	0.04	0.24	3.80
Striped Shiner	N	I	S		107	80.25	12.69	0.92	5.12	11.40
Spotfin Shiner	N	I	M		3	2.25	0.36	0.01	0.04	3.33
Sand Shiner	N	I	M	M	21	15.75	2.49	0.04	0.21	2.38
Silverjaw Minnow	N	I	M		2	1.50	0.24	0.00	0.02	2.00
Bluntnose Minnow	N	O	C	T	71	53.25	8.42	0.19	1.08	3.61
Central Stoneroller	N	H	N		36	27.00	4.27	0.27	1.53	10.14
Channel Catfish	F		C		10	7.50	1.19	6.45	36.07	860.10
Yellow Bullhead		I	C	T	1	0.75	0.12	0.10	0.57	135.00
Rock Bass	S	C	C		27	20.25	3.20	1.93	10.78	95.21
Smallmouth Bass	F	C	C	M	13	9.75	1.54	1.02	5.73	105.08
Largemouth Bass	F	C	C		1	0.75	0.12	0.01	0.08	19.00
Green Sunfish	S	I	C	T	95	71.25	11.27	1.23	6.88	17.26
Bluegill Sunfish	S	I	C	P	114	85.50	13.52	0.52	2.93	6.12
Pumpkinseed Sunfish	S	I	C	P	4	3.00	0.47	0.05	0.25	15.00
Green Sf X Bluegill Sf					5	3.75	0.59	0.17	0.98	46.40
Logperch	D	I	S	M	5	3.75	0.59	0.09	0.53	25.00
Johnny Darter	D	I	C		12	9.00	1.42	0.01	0.08	1.50
Greenside Darter	D	I	S	M	21	15.75	2.49	0.04	0.24	2.67
Banded Darter	D	I	S	I	1	0.75	0.12	0.00	0.01	2.00
Rainbow Darter	D	I	S	M	55	41.25	6.52	0.05	0.30	1.30
Fantail Darter	D	I	C		1	0.75	0.12	0.00	0.01	1.00
	Mile Total				843	632.25		17.88		
	Number of Species				27					
	Number of Hybrids				1					

River Code: **14-606**	Stream: **Ninemile Creek**	Sample Date: **2008**
River Mile: **6.40**	Location: Miller Rd.	Date Range: 07/30/2008
Time Fished: 1500 sec	Drainage: 3.0 sq mi	
Dist Fished: 0.15 km	Basin: Great Miami 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
Common Carp	G	O	M	T	42	84.00	24.42			
Creek Chub	N	G	N	T	20	40.00	11.63			
Fathead Minnow	N	O	C	T	36	72.00	20.93			
Bluntnose Minnow	N	O	C	T	1	2.00	0.58			
Blackstripe Topminnow		I	M		38	76.00	22.09			
Least Darter [S]	D	I	N		35	70.00	20.35			
Mile Total					172	344.00				
Number of Species					6					
Number of Hybrids					0					

River Code: **14-606**	Stream: **Ninemile Creek**	Sample Date: **2008**
River Mile: **4.20**	Location: Range Line Rd.	Date Range: 07/30/2008
Time Fished: 1500 sec	Drainage: 11.5 sq mi	
Dist Fished: 0.15 km	Basin: Great Miami 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	1	2.00	0.78			
White Sucker	W	O	S	T	10	20.00	7.75			
Common Carp	G	O	M	T	12	24.00	9.30			
Creek Chub	N	G	N	T	56	112.00	43.41			
Striped Shiner	N	I	S		4	8.00	3.10			
Fathead Minnow	N	O	C	T	1	2.00	0.78			
Bluntnose Minnow	N	O	C	T	9	18.00	6.98			
Central Stoneroller	N	H	N		21	42.00	16.28			
Yellow Bullhead		I	C	T	4	8.00	3.10			
Blackstripe Topminnow		I	M		2	4.00	1.55			
Green Sunfish	S	I	C	T	3	6.00	2.33			
Green Sf X Bluegill Sf					1	2.00	0.78			
Greenside Darter	D	I	S	M	1	2.00	0.78			
Rainbow Darter	D	I	S	M	4	8.00	3.10			
Mile Total					129	258.00				
Number of Species					13					
Number of Hybrids					1					

River Code: **14-606**	Stream: **Ninemile Creek**	Sample Date: **2008**
River Mile: **0.20**	Location:	Date Range: 07/08/2008
Time Fished: 3230 sec	Drainage: 26.6 sq mi	Thru: 08/26/2008
Dist Fished: 0.40 km	Basin: Great Miami 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		16	12.00	1.38	1.89	5.84	157.50
Golden Redhorse	R	I	S	M	8	6.00	0.69	1.51	4.65	250.75
Northern Hog Sucker	R	I	S	M	13	9.75	1.12	0.45	1.38	45.92
White Sucker	W	O	S	T	44	33.00	3.79	2.66	8.20	80.50
Common Carp	G	O	M	T	2	1.50	0.17	5.21	16.10	3,475.00
Creek Chub	N	G	N	T	7	5.25	0.60	0.01	0.03	1.83
Scarlet Shiner	N	I	S	M	67	50.25	5.77	0.09	0.27	1.73
Striped Shiner	N	I	S		79	59.25	6.80	0.57	1.77	9.68
Spotfin Shiner	N	I	M		3	2.25	0.26	0.01	0.03	4.00
Sand Shiner	N	I	M	M	8	6.00	0.69	0.01	0.03	1.63
Bluntnose Minnow	N	O	C	T	210	157.50	18.09	0.70	2.16	4.43
Central Stoneroller	N	H	N		128	96.00	11.02	0.37	1.13	3.80
Channel Catfish	F		C		6	4.50	0.52	2.82	8.71	626.67
Yellow Bullhead		I	C	T	8	6.00	0.69	0.40	1.22	65.88
Black Crappie	S	I	C		1	0.75	0.09	0.01	0.02	10.00
Rock Bass	S	C	C		34	25.50	2.93	4.74	14.65	185.97
Smallmouth Bass	F	C	C	M	27	20.25	2.33	5.05	15.58	249.15
Largemouth Bass	F	C	C		3	2.25	0.26	0.33	1.01	145.67
Green Sunfish	S	I	C	T	266	199.50	22.91	3.97	12.27	19.91
Bluegill Sunfish	S	I	C	P	34	25.50	2.93	0.38	1.19	15.08
Orangespotted Sunfish	S	I	C		1	0.75	0.09	0.01	0.04	15.00
Pumpkinseed Sunfish	S	I	C	P	21	15.75	1.81	0.19	0.58	11.90
Green Sf X Bluegill Sf					40	30.00	3.45	0.83	2.57	27.78
Logperch	D	I	S	M	3	2.25	0.26	0.03	0.09	13.33
Johnny Darter	D	I	C		3	2.25	0.26	0.00	0.01	1.00
Greenside Darter	D	I	S	M	32	24.00	2.76	0.06	0.18	2.38
Rainbow Darter	D	I	S	M	83	62.25	7.15	0.09	0.27	1.39
Fantail Darter	D	I	C		14	10.50	1.21	0.01	0.04	1.21
	Mile Total				1,161	870.75		32.38		
	Number of Species				27					
	Number of Hybrids				1					

River Code: **14-609**	Stream: **Mile Creek**	Sample Date: **2008**
River Mile: **9.80**	Location:	Date Range: 07/30/2008
Time Fished: 735 sec	Drainage: 9.7 sq mi	
Dist Fished: 0.15 km	Basin: Great Miami 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
Common Carp	G	O	M	T	4	8.00	1.15			
Creek Chub	N	G	N	T	21	42.00	6.05			
Sand Shiner	N	I	M	M	5	10.00	1.44			
Fathead Minnow	N	O	C	T	22	44.00	6.34			
Bluntnose Minnow	N	O	C	T	51	102.00	14.70			
Yellow Bullhead		I	C	T	1	2.00	0.29			
Blackstripe Topminnow		I	M		243	486.00	70.03			
Mile Total					347	694.00				
Number of Species					7					
Number of Hybrids					0					

River Code: **14-609**	Stream: **Mile Creek**	Sample Date: **2008**
River Mile: **8.80**	Location:	Date Range: 07/30/2008
Time Fished: 1337 sec	Drainage: 18.5 sq mi	
Dist Fished: 0.15 km	Basin: Great Miami 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
Common Carp	G	O	M	T	94	188.00	10.44			
Creek Chub	N	G	N	T	4	8.00	0.44			
Suckermouth Minnow	N	I	S		2	4.00	0.22			
Sand Shiner	N	I	M	M	2	4.00	0.22			
Fathead Minnow	N	O	C	T	354	708.00	39.33			
Bluntnose Minnow	N	O	C	T	161	322.00	17.89			
Central Stoneroller	N	H	N		1	2.00	0.11			
Yellow Bullhead		I	C	T	6	12.00	0.67			
Tadpole Madtom		I	C		17	34.00	1.89			
Blackstripe Topminnow		I	M		251	502.00	27.89			
Green Sunfish	S	I	C	T	4	8.00	0.44			
Bluegill Sunfish	S	I	C	P	1	2.00	0.11			
Johnny Darter	D	I	C		1	2.00	0.11			
Greenside Darter	D	I	S	M	1	2.00	0.11			
Orangethroat Darter	D	I	S		1	2.00	0.11			
	Mile Total				900	1,800.00				
	Number of Species				15					
	Number of Hybrids				0					

River Code: **14-609**	Stream: **Mile Creek**	Sample Date: **2008**
River Mile: **6.00**	Location:	Date Range: 07/28/2008
Time Fished: 3728 sec	Drainage: 34.7 sq mi	Thru: 09/04/2008
Dist Fished: 0.30 km	Basin: Great Miami 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
Gizzard Shad		O	M		13	13.00	0.47	0.56	0.90	43.23
Quillback	C	O	M		19	19.00	0.69	1.15	1.85	60.63
White Sucker	W	O	S	T	4	4.00	0.15	0.04	0.06	8.75
Common Carp	G	O	M	T	581	581.00	21.21	19.92	31.96	34.29
Goldfish	G	O	M	T	371	371.00	13.55	9.39	15.07	25.31
Creek Chub	N	G	N	T	9	9.00	0.33	0.08	0.13	8.89
Suckermouth Minnow	N	I	S		9	9.00	0.33	0.02	0.03	1.78
Striped Shiner	N	I	S		73	73.00	2.67	0.71	1.14	9.71
Sand Shiner	N	I	M	M	167	167.00	6.10	0.31	0.50	1.85
Fathead Minnow	N	O	C	T	55	55.00	2.01	0.08	0.13	1.45
Bluntnose Minnow	N	O	C	T	102	102.00	3.72	0.27	0.43	2.66
Central Stoneroller	N	H	N		2	2.00	0.07	0.01	0.02	7.00
Channel Catfish	F		C		17	17.00	0.62	11.78	18.90	692.94
Yellow Bullhead		I	C	T	50	50.00	1.83	2.54	4.07	50.75
Black Bullhead		I	C	P	20	20.00	0.73	0.62	0.99	31.00
Tadpole Madtom		I	C		13	13.00	0.47	0.09	0.14	6.83
Blackstripe Topminnow		I	M		710	710.00	25.92	8.96	14.37	12.61
White Crappie	S	I	C		2	2.00	0.07	0.05	0.08	24.50
Largemouth Bass	F	C	C		5	5.00	0.18	0.14	0.22	27.40
Green Sunfish	S	I	C	T	394	394.00	14.38	4.79	7.68	12.15
Bluegill Sunfish	S	I	C	P	21	21.00	0.77	0.27	0.43	12.91
Orangespotted Sunfish	S	I	C		100	100.00	3.65	0.53	0.85	5.29
Green Sf X Bluegill Sf					2	2.00	0.07	0.03	0.04	12.50
	Mile Total				2,739	2,739.00		62.32		
	Number of Species				22					
	Number of Hybrids				1					

River Code: **14-609**	Stream: **Mile Creek**	Sample Date: **2008**
River Mile: **0.50**	Location: St. Rt. 705	Date Range: 07/28/2008
Time Fished: 3341 sec	Drainage: 62.3 sq mi	Thru: 08/20/2008
Dist Fished: 0.40 km	Basin: Great Miami 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		53	39.75	3.57	0.35	1.68	8.84
Quillback	C	O	M		12	9.00	0.81	0.96	4.59	107.00
Golden Redhorse	R	I	S	M	2	1.50	0.13	0.08	0.36	50.00
Northern Hog Sucker	R	I	S	M	1	0.75	0.07	0.02	0.11	30.00
White Sucker	W	O	S	T	14	10.50	0.94	0.56	2.66	53.21
Common Carp	G	O	M	T	38	28.50	2.56	4.78	22.77	167.61
Goldfish	G	O	M	T	70	52.50	4.71	2.95	14.05	56.14
Golden Shiner	N	I	M	T	1	0.75	0.07	0.00	0.00	1.00
Creek Chub	N	G	N	T	1	0.75	0.07	0.00	0.00	1.00
Striped Shiner	N	I	S		6	4.50	0.40	0.05	0.25	11.50
Spotfin Shiner	N	I	M		1	0.75	0.07	0.00	0.00	1.00
Sand Shiner	N	I	M	M	1	0.75	0.07	0.00	0.00	1.00
Fathead Minnow	N	O	C	T	1	0.75	0.07	0.00	0.01	4.00
Bluntnose Minnow	N	O	C	T	163	122.25	10.98	0.12	0.59	1.00
Channel Catfish	F		C		13	9.75	0.88	2.78	13.25	285.08
Yellow Bullhead		I	C	T	34	25.50	2.29	1.63	7.75	63.75
Tadpole Madtom		I	C		17	12.75	1.14	0.06	0.29	4.73
Blackstripe Topminnow		I	M		189	141.75	12.73	0.16	0.74	1.10
Brook Silverside		I	M	M	1	0.75	0.07	0.00	0.01	2.00
White Crappie	S	I	C		5	3.75	0.34	0.06	0.29	16.20
Largemouth Bass	F	C	C		2	1.50	0.13	0.02	0.10	14.00
Green Sunfish	S	I	C	T	462	346.50	31.11	4.21	20.07	12.16
Bluegill Sunfish	S	I	C	P	39	29.25	2.63	0.28	1.36	9.73
Orangespotted Sunfish	S	I	C		318	238.50	21.41	1.39	6.60	5.81
Pumpkinseed Sunfish	S	I	C	P	11	8.25	0.74	0.17	0.81	20.61
Green Sf X Bluegill Sf					5	3.75	0.34	0.09	0.43	24.00
Green Sf X Hybrid					18	13.50	1.21	0.17	0.83	12.88
Hybrid X Sunfish					7	5.25	0.47	0.09	0.41	16.60
	Mile Total				1,485	1,113.75		20.98		
	Number of Species				25					
	Number of Hybrids				3					

River Code: **14-615**	Stream: **Spring Creek**	Sample Date: **2008**
River Mile: **0.40**	Location:	Date Range: 07/30/2008
Time Fished: 1500 sec	Drainage: 8.8 sq mi	
Dist Fished: 0.15 km	Basin: Great Miami 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	2.07			
Common Carp	G	O	M	T	125	250.00	6.98			
Creek Chub	N	G	N	T	130	260.00	7.26			
Suckermouth Minnow	N	I	S		4	8.00	0.22			
Striped Shiner	N	I	S		52	104.00	2.91			
Sand Shiner	N	I	M	M	6	12.00	0.34			
Fathead Minnow	N	O	C	T	513	1,026.00	28.66			
Bluntnose Minnow	N	O	C	T	381	762.00	21.28			
Yellow Bullhead		I	C	T	19	38.00	1.06			
Blackstripe Topminnow		I	M		117	234.00	6.54			
Largemouth Bass	F	C	C		17	34.00	0.95			
Green Sunfish	S	I	C	T	371	742.00	20.73			
Bluegill Sunfish	S	I	C	P	1	2.00	0.06			
Orangespotted Sunfish	S	I	C		5	10.00	0.28			
Pumpkinseed Sunfish	S	I	C	P	1	2.00	0.06			
Green Sf X Hybrid					1	2.00	0.06			
Greenside Darter	D	I	S	M	9	18.00	0.50			
Rainbow Darter	D	I	S	M	1	2.00	0.06			
Mile Total					1,790	3,580.00				
Number of Species					17					
Number of Hybrids					1					

River Code: **14-700**	Stream: **Muchinippi Creek**	Sample Date: **2008**
River Mile: **13.00**	Location:	Date Range: 07/02/2008
Time Fished: 1500 sec	Drainage: 6.8 sq mi	
Dist Fished: 0.15 km	Basin: Great Miami 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	34	68.00	6.59			
Hornyhead Chub	N	I	N	I	6	12.00	1.16			
Creek Chub	N	G	N	T	68	136.00	13.18			
Scarlet Shiner	N	I	S	M	1	2.00	0.19			
Striped Shiner	N	I	S		166	332.00	32.17			
Silverjaw Minnow	N	I	M		1	2.00	0.19			
Fathead Minnow	N	O	C	T	17	34.00	3.29			
Bluntnose Minnow	N	O	C	T	78	156.00	15.12			
Central Stoneroller	N	H	N		15	30.00	2.91			
Tadpole Madtom		I	C		6	12.00	1.16			
Blackstripe Topminnow		I	M		78	156.00	15.12			
Rock Bass	S	C	C		3	6.00	0.58			
Largemouth Bass	F	C	C		1	2.00	0.19			
Green Sunfish	S	I	C	T	5	10.00	0.97			
Bluegill Sunfish	S	I	C	P	12	24.00	2.33			
Longear Sunfish	S	I	C	M	16	32.00	3.10			
Green Sf X Bluegill Sf					1	2.00	0.19			
Greenside Darter	D	I	S	M	7	14.00	1.36			
Orangethroat Darter	D	I	S		1	2.00	0.19			
Mile Total					516	1,032.00				
Number of Species					18					
Number of Hybrids					1					

River Code: **14-700**	Stream: **Muchinippi Creek**	Sample Date: **2008**
River Mile: **12.50**	Location:	Date Range: 07/02/2008
Time Fished: 1800 sec	Drainage: 16.0 sq mi	
Dist Fished: 0.15 km	Basin: Great Miami 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	2.10			
Common Carp	G	O	M	T	6	12.00	2.52			
Western Blacknose Dace	N	G	S	T	1	2.00	0.42			
Creek Chub	N	G	N	T	14	28.00	5.88			
Striped Shiner	N	I	S		87	174.00	36.55			
Fathead Minnow	N	O	C	T	8	16.00	3.36			
Bluntnose Minnow	N	O	C	T	20	40.00	8.40			
Yellow Bullhead		I	C	T	17	34.00	7.14			
Tadpole Madtom		I	C		2	4.00	0.84			
Blackstripe Topminnow		I	M		24	48.00	10.08			
Rock Bass	S	C	C		5	10.00	2.10			
Largemouth Bass	F	C	C		1	2.00	0.42			
Green Sunfish	S	I	C	T	15	30.00	6.30			
Bluegill Sunfish	S	I	C	P	7	14.00	2.94			
Longear Sunfish	S	I	C	M	26	52.00	10.92			
Mile Total					238	476.00				
Number of Species					15					
Number of Hybrids					0					

River Code: **14-700**	Stream: **Muchinippi Creek**	Sample Date: **2008**
River Mile: **7.40**	Location: Co. Rd. 87	Date Range: 07/23/2008
Time Fished: 3644 sec	Drainage: 36.0 sq mi	Thru: 08/20/2008
Dist Fished: 0.30 km	Basin: Great Miami 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
Gizzard Shad		O	M		1	1.00	0.08	0.01	0.05	12.00
Golden Redhorse	R	I	S	M	16	16.00	1.30	0.27	1.10	16.56
Northern Hog Sucker	R	I	S	M	8	8.00	0.65	1.28	5.33	160.13
White Sucker	W	O	S	T	52	52.00	4.23	4.28	17.81	82.35
Common Carp	G	O	M	T	2	2.00	0.16	4.92	20.44	2,457.50
Hornyhead Chub	N	I	N	I	94	94.00	7.65	1.36	5.64	14.44
River Chub	N	I	N	I	14	14.00	1.14	0.47	1.97	33.79
Creek Chub	N	G	N	T	351	351.00	28.58	1.69	7.03	4.82
Rosyface Shiner	N	I	S	I	42	42.00	3.42	0.12	0.51	2.90
Redfin Shiner	N	I	N		1	1.00	0.08	0.00	0.00	1.00
Striped Shiner	N	I	S		404	404.00	32.90	3.46	14.38	8.56
Bluntnose Minnow	N	O	C	T	108	108.00	8.79	0.35	1.46	3.24
Central Stoneroller	N	H	N		16	16.00	1.30	0.30	1.26	19.00
Yellow Bullhead		I	C	T	7	7.00	0.57	0.56	2.33	80.00
Tadpole Madtom		I	C		10	10.00	0.81	0.13	0.55	13.30
Blackstripe Topminnow		I	M		2	2.00	0.16	0.01	0.05	5.50
Rock Bass	S	C	C		37	37.00	3.01	3.46	14.40	93.59
Smallmouth Bass	F	C	C	M	5	5.00	0.41	0.84	3.49	168.00
Green Sunfish	S	I	C	T	2	2.00	0.16	0.06	0.24	29.00
Bluegill Sunfish	S	I	C	P	3	3.00	0.24	0.03	0.12	10.00
Green Sf X Bluegill Sf					1	1.00	0.08	0.05	0.21	50.00
Blackside Darter	D	I	S		9	9.00	0.73	0.07	0.28	7.44
Logperch	D	I	S	M	7	7.00	0.57	0.11	0.47	16.00
Johnny Darter	D	I	C		5	5.00	0.41	0.02	0.06	3.00
Greenside Darter	D	I	S	M	28	28.00	2.28	0.18	0.74	6.32
Fantail Darter	D	I	C		3	3.00	0.24	0.02	0.10	7.67
	Mile Total				1,228	1,228.00		24.05		
	Number of Species				25					
	Number of Hybrids				1					

River Code: **14-700**	Stream: **Muchinippi Creek**	Sample Date: **2008**
River Mile: **4.80**	Location:	Date Range: 07/23/2008
Time Fished: 3553 sec	Drainage: 77.0 sq mi	Thru: 08/19/2008
Dist Fished: 0.40 km	Basin: Great Miami 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	17	12.75	0.95	0.24	1.95	18.82
Golden Redhorse	R	I	S	M	19	14.25	1.06	0.21	1.70	14.68
Northern Hog Sucker	R	I	S	M	10	7.50	0.56	0.23	1.87	30.70
White Sucker	W	O	S	T	57	42.75	3.19	0.66	5.33	15.36
Common Carp	G	O	M	T	1	0.75	0.06	0.01	0.06	10.00
Hornyhead Chub	N	I	N	I	59	44.25	3.30	0.74	5.99	16.66
River Chub	N	I	N	I	2	1.50	0.11	0.02	0.13	10.50
Creek Chub	N	G	N	T	216	162.00	12.08	2.45	19.85	15.09
Rosyface Shiner	N	I	S	I	2	1.50	0.11	0.01	0.07	6.00
Striped Shiner	N	I	S		481	360.75	26.90	2.56	20.80	7.10
Sand Shiner	N	I	M	M	1	0.75	0.06	0.00	0.01	2.00
Silverjaw Minnow	N	I	M		4	3.00	0.22	0.01	0.06	2.50
Bluntnose Minnow	N	O	C	T	624	468.00	34.90	0.90	7.29	1.92
Central Stoneroller	N	H	N		15	11.25	0.84	0.03	0.26	2.83
Yellow Bullhead		I	C	T	16	12.00	0.89	1.78	14.43	148.13
Tadpole Madtom		I	C		14	10.50	0.78	0.11	0.88	10.36
Blackstripe Topminnow		I	M		1	0.75	0.06	0.00	0.01	1.00
White Crappie	S	I	C		2	1.50	0.11	0.01	0.08	6.50
Rock Bass	S	C	C		31	23.25	1.73	1.31	10.65	56.41
Smallmouth Bass	F	C	C	M	1	0.75	0.06	0.01	0.07	11.00
Green Sunfish	S	I	C	T	47	35.25	2.63	0.56	4.58	16.00
Bluegill Sunfish	S	I	C	P	64	48.00	3.58	0.22	1.82	4.67
Longear Sunfish	S	I	C	M	7	5.25	0.39	0.05	0.41	9.71
Blackside Darter	D	I	S		41	30.75	2.29	0.08	0.62	2.49
Logperch	D	I	S	M	3	2.25	0.17	0.03	0.26	14.00
Johnny Darter	D	I	C		22	16.50	1.23	0.03	0.22	1.67
Greenside Darter	D	I	S	M	27	20.25	1.51	0.07	0.53	3.21
Orangethroat Darter	D	I	S		3	2.25	0.17	0.01	0.06	3.33
Fantail Darter	D	I	C		1	0.75	0.06	0.00	0.02	3.00
	Mile Total				1,788	1,341.00		12.32		
	Number of Species				29					
	Number of Hybrids				0					

River Code: **14-700**	Stream: **Muchinippi Creek**	Sample Date: **2008**
River Mile: **2.40**	Location:	Date Range: 07/23/2008
Time Fished: 3046 sec	Drainage: 85.0 sq mi	Thru: 08/19/2008
Dist Fished: 0.40 km	Basin: Great Miami 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	7	5.25	2.85	0.16	0.25	30.71
Northern Pike	F	P	M		1	0.75	0.41	0.05	0.07	63.00
Golden Redhorse	R	I	S	M	15	11.25	6.10	6.04	9.44	536.67
Northern Hog Sucker	R	I	S	M	1	0.75	0.41	0.12	0.19	160.00
White Sucker	W	O	S	T	13	9.75	5.28	1.89	2.96	193.92
Common Carp	G	O	M	T	19	14.25	7.72	52.67	82.40	3,696.24
Golden Shiner	N	I	M	T	9	6.75	3.66	0.02	0.03	2.44
Redfin Shiner	N	I	N		3	2.25	1.22	0.00	0.01	1.67
Striped Shiner	N	I	S		9	6.75	3.66	0.01	0.02	2.11
Spotfin Shiner	N	I	M		12	9.00	4.88	0.02	0.04	2.67
Bluntnose Minnow	N	O	C	T	2	1.50	0.81	0.00	0.00	1.00
Yellow Bullhead		I	C	T	6	4.50	2.44	0.47	0.74	105.33
Tadpole Madtom		I	C		1	0.75	0.41	0.01	0.02	15.00
Blackstripe Topminnow		I	M		4	3.00	1.63	0.01	0.02	3.75
Rock Bass	S	C	C		3	2.25	1.22	0.26	0.41	115.00
Smallmouth Bass	F	C	C	M	1	0.75	0.41	0.24	0.38	320.00
Largemouth Bass	F	C	C		1	0.75	0.41	0.53	0.82	700.00
Green Sunfish	S	I	C	T	33	24.75	13.41	0.61	0.95	24.45
Bluegill Sunfish	S	I	C	P	99	74.25	40.24	0.56	0.88	7.57
Longear Sunfish	S	I	C	M	1	0.75	0.41	0.02	0.04	32.00
Yellow Perch			M		5	3.75	2.03	0.22	0.35	59.00
Blackside Darter	D	I	S		1	0.75	0.41	0.00	0.01	5.00
	Mile Total				246	184.50		63.92		
	Number of Species				22					
	Number of Hybrids				0					

River Code: **14-703**	Stream: **Little Muchinippi Creek**	Sample Date: **2008**
River Mile: **6.10**	Location:	Date Range: 08/12/2008
Time Fished: 2077 sec	Drainage: 9.3 sq mi	
Dist Fished: 0.15 km	Basin: Great Miami 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	7	14.00	0.25			
Hornyhead Chub	N	I	N	I	334	668.00	12.15			
Creek Chub	N	G	N	T	408	816.00	14.84			
Striped Shiner	N	I	S		578	1,156.00	21.02			
Silverjaw Minnow	N	I	M		8	16.00	0.29			
Bluntnose Minnow	N	O	C	T	830	1,660.00	30.18			
Central Stoneroller	N	H	N		243	486.00	8.84			
Yellow Bullhead		I	C	T	23	46.00	0.84			
Tadpole Madtom		I	C		2	4.00	0.07			
Blackstripe Topminnow		I	M		157	314.00	5.71			
Largemouth Bass	F	C	C		2	4.00	0.07			
Green Sunfish	S	I	C	T	27	54.00	0.98			
Bluegill Sunfish	S	I	C	P	1	2.00	0.04			
Blackside Darter	D	I	S		6	12.00	0.22			
Johnny Darter	D	I	C		108	216.00	3.93			
Greenside Darter	D	I	S	M	3	6.00	0.11			
Orangethroat Darter	D	I	S		13	26.00	0.47			
Mile Total					2,750	5,500.00				
Number of Species					17					
Number of Hybrids					0					

River Code: **14-703**	Stream: **Little Muchinippi Creek**	Sample Date: **2008**
River Mile: **0.70**	Location:	Date Range: 07/23/2008
Time Fished: 2919 sec	Drainage: 35.2 sq mi	Thru: 08/20/2008
Dist Fished: 0.30 km	Basin: Great Miami 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
Northern Hog Sucker	R	I	S	M	2	2.00	0.09	0.04	0.39	20.00
White Sucker	W	O	S	T	12	12.00	0.52	0.34	3.35	28.33
Hornyhead Chub	N	I	N	I	210	210.00	9.14	1.44	14.22	6.87
Creek Chub	N	G	N	T	215	215.00	9.36	1.24	12.22	5.77
Redfin Shiner	N	I	N		1	1.00	0.04	0.00	0.01	1.00
Striped Shiner	N	I	S		540	540.00	23.50	2.62	25.83	4.85
Sand Shiner	N	I	M	M	3	3.00	0.13	0.01	0.06	2.00
Bluntnose Minnow	N	O	C	T	1,063	1,063.00	46.26	2.89	28.50	2.72
Central Stoneroller	N	H	N		12	12.00	0.52	0.10	0.98	8.25
Yellow Bullhead		I	C	T	4	4.00	0.17	0.36	3.55	90.00
Tadpole Madtom		I	C		9	9.00	0.39	0.03	0.33	3.67
Blackstripe Topminnow		I	M		16	16.00	0.70	0.11	1.09	6.94
Rock Bass	S	C	C		7	7.00	0.30	0.45	4.41	63.86
Largemouth Bass	F	C	C		2	2.00	0.09	0.01	0.07	3.50
Green Sunfish	S	I	C	T	15	15.00	0.65	0.09	0.86	5.83
Bluegill Sunfish	S	I	C	P	4	4.00	0.17	0.02	0.20	5.00
Blackside Darter	D	I	S		2	2.00	0.09	0.01	0.05	2.50
Johnny Darter	D	I	C		95	95.00	4.13	0.13	1.33	1.41
Greenside Darter	D	I	S	M	38	38.00	1.65	0.19	1.87	4.98
Rainbow Darter	D	I	S	M	1	1.00	0.04	0.00	0.01	1.00
Orangethroat Darter	D	I	S		13	13.00	0.57	0.01	0.10	0.77
Fantail Darter	D	I	C		34	34.00	1.48	0.06	0.59	1.76
Mile Total					2,298	2,298.00		10.15		
Number of Species					22					
Number of Hybrids					0					

River Code: **14-705**	Stream: **Jackson Center Creek**	Sample Date: **2008**
River Mile: **2.90**	Location:	Date Range: 07/17/2008
Time Fished: 1500 sec	Drainage: 1.1 sq mi	
Dist Fished: 0.10 km	Basin: Great Miami 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	31	93.00	14.90			
Striped Shiner	N	I	S		1	3.00	0.48			
Bluntnose Minnow	N	O	C	T	117	351.00	56.25			
Yellow Bullhead		I	C	T	3	9.00	1.44			
Blackstripe Topminnow		I	M		33	99.00	15.87			
Green Sunfish	S	I	C	T	7	21.00	3.37			
Bluegill Sunfish	S	I	C	P	1	3.00	0.48			
Johnny Darter	D	I	C		9	27.00	4.33			
Orangethroat Darter	D	I	S		6	18.00	2.88			
Mile Total					208	624.00				
Number of Species					9					
Number of Hybrids					0					

River Code: **14-705**	Stream: **Jackson Center Creek**	Sample Date: **2008**
River Mile: **1.80**	Location:	Date Range: 07/17/2008
Time Fished: 1500 sec	Drainage: 3.4 sq mi	
Dist Fished: 0.15 km	Basin: Great Miami 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
Hornyhead Chub	N	I	N	I	10	20.00	1.84			
Creek Chub	N	G	N	T	129	258.00	23.76			
Striped Shiner	N	I	S		61	122.00	11.23			
Bluntnose Minnow	N	O	C	T	142	284.00	26.15			
Yellow Bullhead		I	C	T	12	24.00	2.21			
Blackstripe Topminnow		I	M		145	290.00	26.70			
Green Sunfish	S	I	C	T	11	22.00	2.03			
Bluegill Sunfish	S	I	C	P	32	64.00	5.89			
Johnny Darter	D	I	C		1	2.00	0.18			
	Mile Total				543	1,086.00				
	Number of Species				9					
	Number of Hybrids				0					

River Code: **14-706**	Stream: **Willow Creek**	Sample Date: **2008**
River Mile: **3.70**	Location:	Date Range: 07/17/2008
Time Fished: 1500 sec	Drainage: 8.1 sq mi	
Dist Fished: 0.12 km	Basin: Great Miami 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	7	17.50	4.73			
Common Carp	G	O	M	T	3	7.50	2.03			
Hornyhead Chub	N	I	N	I	7	17.50	4.73			
Creek Chub	N	G	N	T	2	5.00	1.35			
Striped Shiner	N	I	S		71	177.50	47.97			
Bluntnose Minnow	N	O	C	T	13	32.50	8.78			
Central Stoneroller	N	H	N		2	5.00	1.35			
Yellow Bullhead		I	C	T	9	22.50	6.08			
Blackstripe Topminnow		I	M		20	50.00	13.51			
Rock Bass	S	C	C		8	20.00	5.41			
Bluegill Sunfish	S	I	C	P	6	15.00	4.05			
Mile Total					148	370.00				
Number of Species					11					
Number of Hybrids					0					

River Code: **14-706**	Stream: **Willow Creek**	Sample Date: **2008**
River Mile: **0.50**	Location:	Date Range: 08/05/2008
Time Fished: 1908 sec	Drainage: 15.1 sq mi	
Dist Fished: 0.15 km	Basin: Great Miami 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	26	52.00	4.81			
Hornyhead Chub	N	I	N	I	11	22.00	2.04			
Creek Chub	N	G	N	T	7	14.00	1.30			
Striped Shiner	N	I	S		144	288.00	26.67			
Bluntnose Minnow	N	O	C	T	151	302.00	27.96			
Central Stoneroller	N	H	N		8	16.00	1.48			
Yellow Bullhead		I	C	T	18	36.00	3.33			
Tadpole Madtom		I	C		28	56.00	5.19			
Rock Bass	S	C	C		7	14.00	1.30			
Bluegill Sunfish	S	I	C	P	57	114.00	10.56			
Longear Sunfish	S	I	C	M	20	40.00	3.70			
Blackside Darter	D	I	S		57	114.00	10.56			
Greenside Darter	D	I	S	M	2	4.00	0.37			
Rainbow Darter	D	I	S	M	1	2.00	0.19			
Fantail Darter	D	I	C		3	6.00	0.56			
Mile Total					540	1,080.00				
Number of Species					15					
Number of Hybrids					0					

River Code: **14-800**	Stream: **South Fork Great Miami River**	Sample Date: **2008**
River Mile: **8.00**	Location: St. Rt. 638	Date Range: 07/15/2008
Time Fished: 1500 sec	Drainage: 11.6 sq mi	
Dist Fished: 0.15 km	Basin: Great Miami 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	8	16.00	1.08			
White Sucker	W	O	S	T	8	16.00	1.08			
Western Blacknose Dace	N	G	S	T	22	44.00	2.96			
Creek Chub	N	G	N	T	100	200.00	13.48			
Striped Shiner	N	I	S		30	60.00	4.04			
Sand Shiner	N	I	M	M	2	4.00	0.27			
Silverjaw Minnow	N	I	M		9	18.00	1.21			
Fathead Minnow	N	O	C	T	1	2.00	0.13			
Bluntnose Minnow	N	O	C	T	33	66.00	4.45			
Central Stoneroller	N	H	N		305	610.00	41.11			
Yellow Bullhead		I	C	T	2	4.00	0.27			
Rock Bass	S	C	C		7	14.00	0.94			
Largemouth Bass	F	C	C		3	6.00	0.40			
Green Sunfish	S	I	C	T	7	14.00	0.94			
Bluegill Sunfish	S	I	C	P	1	2.00	0.13			
Green Sf X Bluegill Sf					1	2.00	0.13			
Logperch	D	I	S	M	3	6.00	0.40			
Johnny Darter	D	I	C		5	10.00	0.67			
Greenside Darter	D	I	S	M	32	64.00	4.31			
Rainbow Darter	D	I	S	M	53	106.00	7.14			
Orangethroat Darter	D	I	S		49	98.00	6.60			
Fantail Darter	D	I	C		2	4.00	0.27			
Mottled Sculpin		I	C		59	118.00	7.95			
	Mile Total				742	1,484.00				
	Number of Species				22					
	Number of Hybrids				1					

River Code: **14-800**	Stream: **South Fork Great Miami River**	Sample Date: **2008**
River Mile: **7.30**	Location:	Date Range: 08/05/2008
Time Fished: 3988 sec	Drainage: 19.5 sq mi	Thru: 09/04/2008
Dist Fished: 0.40 km	Basin: Great Miami 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	35	26.25	1.32	1.20	4.83	45.76
White Sucker	W	O	S	T	137	102.75	5.19	9.28	37.30	90.29
Western Blacknose Dace	N	G	S	T	62	46.50	2.35	0.20	0.79	4.21
Creek Chub	N	G	N	T	331	248.25	12.53	4.61	18.53	18.57
Striped Shiner	N	I	S		183	137.25	6.93	1.57	6.31	11.43
Silverjaw Minnow	N	I	M		67	50.25	2.54	0.22	0.87	4.29
Bluntnose Minnow	N	O	C	T	184	138.00	6.96	0.55	2.21	3.99
Central Stoneroller	N	H	N		923	692.25	34.94	4.54	18.24	6.55
Yellow Bullhead		I	C	T	9	6.75	0.34	0.83	3.35	123.44
Brook Silverside		I	M	M	95	71.25	3.60	0.10	0.39	1.36
Rock Bass	S	C	C		10	7.50	0.38	0.32	1.29	42.80
Smallmouth Bass	F	C	C	M	2	1.50	0.08	0.19	0.75	124.00
Largemouth Bass	F	C	C		2	1.50	0.08	0.03	0.10	16.50
Green Sunfish	S	I	C	T	5	3.75	0.19	0.03	0.10	6.60
Yellow Perch			M		2	1.50	0.08	0.03	0.10	17.00
Logperch	D	I	S	M	25	18.75	0.95	0.15	0.59	7.84
Johnny Darter	D	I	C		46	34.50	1.74	0.07	0.27	1.91
Greenside Darter	D	I	S	M	104	78.00	3.94	0.19	0.75	2.39
Rainbow Darter	D	I	S	M	238	178.50	9.01	0.30	1.20	1.67
Orangethroat Darter	D	I	S		34	25.50	1.29	0.03	0.13	1.32
Fantail Darter	D	I	C		1	0.75	0.04	0.01	0.02	8.00
Mottled Sculpin		I	C		147	110.25	5.56	0.47	1.87	4.22
Mile Total					2,642	1,981.50		24.87		
Number of Species					22					
Number of Hybrids					0					

River Code: **14-800**	Stream: **South Fork Great Miami River**	Sample Date: **2008**
River Mile: **5.80**	Location: Co. Rd. 97	Date Range: 07/22/2008
Time Fished: 4745 sec	Drainage: 29.6 sq mi	Thru: 08/19/2008
Dist Fished: 0.40 km	Basin: Great Miami 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	11	8.25	0.47	0.26	1.17	31.36
Northern Hog Sucker	R	I	S	M	49	36.75	2.10	1.37	6.21	37.31
White Sucker	W	O	S	T	225	168.75	9.63	6.55	29.67	38.83
Spotted Sucker	R	I	S		2	1.50	0.09	0.02	0.07	11.00
Common Carp	G	O	M	T	6	4.50	0.26	1.86	8.44	414.17
Western Blacknose Dace	N	G	S	T	18	13.50	0.77	0.05	0.24	3.83
Creek Chub	N	G	N	T	402	301.50	17.20	3.32	15.02	11.01
Striped Shiner	N	I	S		163	122.25	6.97	1.28	5.81	10.49
Spotfin Shiner	N	I	M		1	0.75	0.04	0.01	0.03	10.00
Sand Shiner	N	I	M	M	4	3.00	0.17	0.01	0.05	3.75
Silverjaw Minnow	N	I	M		173	129.75	7.40	0.42	1.91	3.24
Bluntnose Minnow	N	O	C	T	335	251.25	14.33	1.00	4.54	3.99
Central Stoneroller	N	H	N		305	228.75	13.05	1.84	8.34	8.06
Yellow Bullhead		I	C	T	15	11.25	0.64	0.96	4.35	85.33
Brook Silverside		I	M	M	110	82.50	4.71	0.09	0.39	1.05
Rock Bass	S	C	C		18	13.50	0.77	0.46	2.09	34.17
Smallmouth Bass	F	C	C	M	7	5.25	0.30	1.25	5.64	237.14
Largemouth Bass	F	C	C		4	3.00	0.17	0.02	0.08	5.75
Green Sunfish	S	I	C	T	44	33.00	1.88	0.26	1.17	7.86
Bluegill Sunfish	S	I	C	P	11	8.25	0.47	0.08	0.35	9.45
Yellow Perch			M		6	4.50	0.26	0.03	0.12	5.67
Logperch	D	I	S	M	18	13.50	0.77	0.09	0.41	6.78
Johnny Darter	D	I	C		108	81.00	4.62	0.12	0.55	1.51
Greenside Darter	D	I	S	M	122	91.50	5.22	0.30	1.34	3.24
Rainbow Darter	D	I	S	M	67	50.25	2.87	0.07	0.32	1.39
Orangethroat Darter	D	I	S		13	9.75	0.56	0.02	0.10	2.22
Mottled Sculpin		I	C		100	75.00	4.28	0.35	1.59	4.69
Mile Total					2,337	1,752.75		22.09		
Number of Species					27					
Number of Hybrids					0					

River Code: **14-800**	Stream: **South Fork Great Miami River**	Sample Date: **2008**
River Mile: **4.00**	Location:	Date Range: 07/18/2008
Time Fished: 4482 sec	Drainage: 47.0 sq mi	Thru: 08/18/2008
Dist Fished: 0.40 km	Basin: Great Miami 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	57	42.75	2.63	2.76	19.03	64.48
White Sucker	W	O	S	T	87	65.25	4.01	1.67	11.55	25.63
Hornyhead Chub	N	I	N	I	1	0.75	0.05	0.02	0.12	23.00
Western Blacknose Dace	N	G	S	T	26	19.50	1.20	0.06	0.39	2.86
Creek Chub	N	G	N	T	210	157.50	9.69	1.97	13.61	12.51
Striped Shiner	N	I	S		115	86.25	5.31	1.03	7.14	11.99
Silverjaw Minnow	N	I	M		3	2.25	0.14	0.01	0.08	4.67
Bluntnose Minnow	N	O	C	T	30	22.50	1.38	0.09	0.61	3.93
Central Stoneroller	N	H	N		692	519.00	31.93	4.50	31.08	8.67
Brook Silverside		I	M	M	15	11.25	0.69	0.02	0.15	1.91
Rock Bass	S	C	C		2	1.50	0.09	0.01	0.09	8.50
Smallmouth Bass	F	C	C	M	6	4.50	0.28	0.23	1.55	50.00
Largemouth Bass	F	C	C		2	1.50	0.09	0.02	0.11	10.00
Green Sunfish	S	I	C	T	15	11.25	0.69	0.12	0.84	10.81
Bluegill Sunfish	S	I	C	P	1	0.75	0.05	0.00	0.01	1.00
Yellow Perch			M		4	3.00	0.18	0.01	0.07	3.25
Logperch	D	I	S	M	54	40.50	2.49	0.29	2.02	7.20
Johnny Darter	D	I	C		46	34.50	2.12	0.07	0.51	2.12
Greenside Darter	D	I	S	M	167	125.25	7.71	0.41	2.86	3.31
Rainbow Darter	D	I	S	M	353	264.75	16.29	0.36	2.50	1.36
Orangethroat Darter	D	I	S		2	1.50	0.09	0.01	0.04	4.00
Fantail Darter	D	I	C		8	6.00	0.37	0.01	0.09	2.25
Mottled Sculpin		I	C		271	203.25	12.51	0.81	5.59	3.98
	Mile Total				2,167	1,625.25		14.48		
	Number of Species				23					
	Number of Hybrids				0					

River Code: **14-800**	Stream: **South Fork Great Miami River**	Sample Date: **2008**
River Mile: **1.80**	Location: Co. Rd. 38	Date Range: 07/21/2008
Time Fished: 3553 sec	Drainage: 51.0 sq mi	Thru: 08/18/2008
Dist Fished: 0.40 km	Basin: Great Miami 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		52	39.00	5.21	0.20	0.97	5.20
Golden Redhorse	R	I	S	M	4	3.00	0.40	0.55	2.62	182.50
Northern Hog Sucker	R	I	S	M	16	12.00	1.60	1.77	8.44	147.13
White Sucker	W	O	S	T	27	20.25	2.70	3.97	18.97	195.89
Western Blacknose Dace	N	G	S	T	1	0.75	0.10	0.00	0.00	1.00
Creek Chub	N	G	N	T	7	5.25	0.70	0.03	0.16	6.57
Striped Shiner	N	I	S		25	18.75	2.50	0.03	0.13	1.44
Spotfin Shiner	N	I	M		12	9.00	1.20	0.04	0.20	4.67
Fathead Minnow	N	O	C	T	1	0.75	0.10	0.00	0.01	2.00
Bluntnose Minnow	N	O	C	T	116	87.00	11.61	0.25	1.19	2.85
Central Stoneroller	N	H	N		31	23.25	3.10	0.16	0.76	6.77
Channel Catfish	F		C		2	1.50	0.20	0.01	0.04	5.00
Blackstripe Topminnow		I	M		1	0.75	0.10	0.00	0.01	3.00
Brook Silverside		I	M	M	9	6.75	0.90	0.02	0.11	3.33
Largemouth Bass	F	C	C		28	21.00	2.80	11.89	56.87	566.29
Green Sunfish	S	I	C	T	14	10.50	1.40	0.17	0.82	16.43
Bluegill Sunfish	S	I	C	P	36	27.00	3.60	0.57	2.71	21.00
Orangespotted Sunfish	S	I	C		1	0.75	0.10	0.01	0.04	10.00
Green Sf X Bluegill Sf					2	1.50	0.20	0.02	0.11	15.00
Yellow Perch			M		10	7.50	1.00	0.03	0.14	3.90
Logperch	D	I	S	M	66	49.50	6.61	0.16	0.75	3.15
Johnny Darter	D	I	C		8	6.00	0.80	0.02	0.08	2.63
Greenside Darter	D	I	S	M	51	38.25	5.11	0.17	0.82	4.49
Rainbow Darter	D	I	S	M	306	229.50	30.63	0.39	1.88	1.71
Orangethroat Darter	D	I	S		1	0.75	0.10	0.00	0.00	1.00
Mottled Sculpin		I	C		172	129.00	17.22	0.46	2.20	3.57
Mile Total					999	749.25		20.91		
Number of Species					25					
Number of Hybrids					1					

River Code: **14-801**	Stream: **Liggitt Ditch**	Sample Date: **2008**
River Mile: **0.50**	Location: Twp. Rd. 49	Date Range: 07/01/2008
Time Fished: 1500 sec	Drainage: 6.5 sq mi	
Dist Fished: 0.15 km	Basin: Great Miami 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	2.39			
Western Blacknose Dace	N	G	S	T	131	262.00	13.03			
Creek Chub	N	G	N	T	128	256.00	12.74			
Striped Shiner	N	I	S		10	20.00	1.00			
Silverjaw Minnow	N	I	M		55	110.00	5.47			
Bluntnose Minnow	N	O	C	T	203	406.00	20.20			
Central Stoneroller	N	H	N		165	330.00	16.42			
Yellow Bullhead		I	C	T	4	8.00	0.40			
Blackstripe Topminnow		I	M		39	78.00	3.88			
Green Sunfish	S	I	C	T	3	6.00	0.30			
Bluegill Sunfish	S	I	C	P	14	28.00	1.39			
Redear Sunfish	E	I	C		1	2.00	0.10			
Johnny Darter	D	I	C		14	28.00	1.39			
Greenside Darter	D	I	S	M	1	2.00	0.10			
Rainbow Darter	D	I	S	M	1	2.00	0.10			
Orangethroat Darter	D	I	S		201	402.00	20.00			
Mottled Sculpin		I	C		11	22.00	1.09			
Mile Total					1,005	2,010.00				
Number of Species					17					
Number of Hybrids					0					

River Code: **14-802**	Stream: **North Fork Great Miami River**	Sample Date: **2008**
River Mile: **10.70**	Location:	Date Range: 07/02/2008
Time Fished: 1800 sec	Drainage: 9.0 sq mi	
Dist Fished: 0.15 km	Basin: Great Miami 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
Central Mudminnow		I	C	T	1	2.00	0.10			
White Sucker	W	O	S	T	51	102.00	5.17			
Golden Shiner	N	I	M	T	1	2.00	0.10			
Creek Chub	N	G	N	T	260	520.00	26.34			
Scarlet Shiner	N	I	S	M	3	6.00	0.30			
Striped Shiner	N	I	S		23	46.00	2.33			
Silverjaw Minnow	N	I	M		4	8.00	0.41			
Fathead Minnow	N	O	C	T	54	108.00	5.47			
Bluntnose Minnow	N	O	C	T	396	792.00	40.12			
Central Stoneroller	N	H	N		41	82.00	4.15			
Yellow Bullhead		I	C	T	28	56.00	2.84			
Blackstripe Topminnow		I	M		45	90.00	4.56			
Green Sunfish	S	I	C	T	32	64.00	3.24			
Orangespotted Sunfish	S	I	C		2	4.00	0.20			
Logperch	D	I	S	M	5	10.00	0.51			
Johnny Darter	D	I	C		28	56.00	2.84			
Rainbow Darter	D	I	S	M	10	20.00	1.01			
Orangethroat Darter	D	I	S		3	6.00	0.30			
Mile Total					987	1,974.00				
Number of Species					18					
Number of Hybrids					0					

River Code: **14-802**	Stream: **North Fork Great Miami River**	Sample Date: **2008**
River Mile: **6.40**	Location:	Date Range: 08/05/2008
Time Fished: 1981 sec	Drainage: 14.4 sq mi	
Dist Fished: 0.15 km	Basin: Great Miami 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	90	180.00	7.49			
Creek Chub	N	G	N	T	175	350.00	14.57			
Striped Shiner	N	I	S		128	256.00	10.66			
Silverjaw Minnow	N	I	M		10	20.00	0.83			
Fathead Minnow	N	O	C	T	40	80.00	3.33			
Bluntnose Minnow	N	O	C	T	307	614.00	25.56			
Central Stoneroller	N	H	N		215	430.00	17.90			
Yellow Bullhead		I	C	T	4	8.00	0.33			
Blackstripe Topminnow		I	M		3	6.00	0.25			
Green Sunfish	S	I	C	T	15	30.00	1.25			
Bluegill Sunfish	S	I	C	P	2	4.00	0.17			
Orangespotted Sunfish	S	I	C		1	2.00	0.08			
Yellow Perch			M		6	12.00	0.50			
Logperch	D	I	S	M	15	30.00	1.25			
Johnny Darter	D	I	C		111	222.00	9.24			
Rainbow Darter	D	I	S	M	79	158.00	6.58			
Mile Total					1,201	2,402.00				
Number of Species					16					
Number of Hybrids					0					

River Code: **14-804**	Stream: **Van Horn Creek**	Sample Date: **2008**
River Mile: **1.00**	Location: St. Rt. 366	Date Range: 07/01/2008
Time Fished: 1800 sec	Drainage: 2.8 sq mi	
Dist Fished: 0.15 km	Basin: Great Miami 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	101	202.00	13.95			
Western Blacknose Dace	N	G	S	T	51	102.00	7.04			
Creek Chub	N	G	N	T	172	344.00	23.76			
Silverjaw Minnow	N	I	M		1	2.00	0.14			
Fathead Minnow	N	O	C	T	1	2.00	0.14			
Bluntnose Minnow	N	O	C	T	103	206.00	14.23			
Central Stoneroller	N	H	N		95	190.00	13.12			
Yellow Bullhead		I	C	T	30	60.00	4.14			
Blackstripe Topminnow		I	M		1	2.00	0.14			
Largemouth Bass	F	C	C		3	6.00	0.41			
Green Sunfish	S	I	C	T	20	40.00	2.76			
Bluegill Sunfish	S	I	C	P	117	234.00	16.16			
Orangespotted Sunfish	S	I	C		2	4.00	0.28			
Redear Sunfish	E	I	C		5	10.00	0.69			
Yellow Perch			M		14	28.00	1.93			
Logperch	D	I	S	M	8	16.00	1.10			
	Mile Total				724	1,448.00				
	Number of Species				16					
	Number of Hybrids				0					

River Code: **14-805**	Stream: **Trib. to S. Fk. Great Miami R. (RM 7.24)**	Sample Date: **2008**
River Mile: **0.50**	Location:	Date Range: 07/15/2008
Time Fished: 1939 sec	Drainage: 7.2 sq mi	
Dist Fished: 0.15 km	Basin: Great Miami 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	7	14.00	1.69			
Western Blacknose Dace	N	G	S	T	36	72.00	8.70			
Creek Chub	N	G	N	T	70	140.00	16.91			
Striped Shiner	N	I	S		25	50.00	6.04			
Silverjaw Minnow	N	I	M		2	4.00	0.48			
Bluntnose Minnow	N	O	C	T	11	22.00	2.66			
Central Stoneroller	N	H	N		86	172.00	20.77			
Yellow Bullhead		I	C	T	3	6.00	0.72			
Largemouth Bass	F	C	C		1	2.00	0.24			
Green Sunfish	S	I	C	T	6	12.00	1.45			
Bluegill Sunfish	S	I	C	P	29	58.00	7.00			
Logperch	D	I	S	M	2	4.00	0.48			
Johnny Darter	D	I	C		3	6.00	0.72			
Greenside Darter	D	I	S	M	9	18.00	2.17			
Orangethroat Darter	D	I	S		34	68.00	8.21			
Mottled Sculpin		I	C		90	180.00	21.74			
	Mile Total				414	828.00				
	Number of Species				16					
	Number of Hybrids				0					

River Code: **14-806**	Stream: **Trib. to S. Fk. Great Miami R. (RM 5.27)**	Sample Date: **2008**
River Mile: **0.50**	Location: Co. Rd. 96	Date Range: 07/31/2008
Time Fished: 1800 sec	Drainage: 11.4 sq mi	
Dist Fished: 0.15 km	Basin: Great Miami 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	1	2.00	0.07			
Northern Hog Sucker	R	I	S	M	8	16.00	0.57			
White Sucker	W	O	S	T	31	62.00	2.20			
Western Blacknose Dace	N	G	S	T	28	56.00	1.99			
Creek Chub	N	G	N	T	192	384.00	13.63			
Striped Shiner	N	I	S		88	176.00	6.25			
Silverjaw Minnow	N	I	M		2	4.00	0.14			
Bluntnose Minnow	N	O	C	T	99	198.00	7.03			
Central Stoneroller	N	H	N		588	1,176.00	41.73			
Yellow Bullhead		I	C	T	1	2.00	0.07			
Rock Bass	S	C	C		14	28.00	0.99			
Largemouth Bass	F	C	C		2	4.00	0.14			
Green Sunfish	S	I	C	T	21	42.00	1.49			
Bluegill Sunfish	S	I	C	P	22	44.00	1.56			
Logperch	D	I	S	M	11	22.00	0.78			
Johnny Darter	D	I	C		30	60.00	2.13			
Greenside Darter	D	I	S	M	1	2.00	0.07			
Rainbow Darter	D	I	S	M	149	298.00	10.57			
Orangethroat Darter	D	I	S		5	10.00	0.35			
Fantail Darter	D	I	C		5	10.00	0.35			
Mottled Sculpin		I	C		111	222.00	7.88			
Mile Total					1,409	2,818.00				
Number of Species					21					
Number of Hybrids					0					

River Code: **14-999**	Stream: **Miami-Erie Canal**	Sample Date: **2008**
River Mile: **0.10**	Location: at mouth, at Fort Loramie	Date Range: 08/13/2008
Time Fished: 555 sec	Drainage: 4.3 sq mi	
Dist Fished: 0.15 km	Basin: Great Miami 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	4	8.00	1.38			
Striped Shiner	N	I	S		1	2.00	0.34			
Sand Shiner	N	I	M	M	90	180.00	31.03			
Bluntnose Minnow	N	O	C	T	132	264.00	45.52			
Yellow Bullhead		I	C	T	9	18.00	3.10			
Blackstripe Topminnow		I	M		2	4.00	0.69			
Green Sunfish	S	I	C	T	50	100.00	17.24			
Rainbow Darter	D	I	S	M	2	4.00	0.69			
Mile Total					290	580.00				
Number of Species					8					
Number of Hybrids					0					

APPENDIX F

ICI Metric Scores for Upper Great Miami River Basin Sites, 2008-09

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			
Great Miami River (14-001)													
Year: 2008													
157.22	131.0	33(4)	4(2)	3(4)	17(4)	5.3(2)	61.4(6)	13.3(2)	17.3(6)	0.7(6)	2(0)	5	36
146.19	296.0	33(4)	8(4)	4(4)	14(4)	31.0(4)	52.3(6)	4.4(2)	9.7(6)	0.6(6)	10(2)	5	42
143.20	405.0	36(6)	11(6)	6(6)	12(4)	12.1(2)	39.2(6)	19.4(4)	28.9(4)	0.5(6)	17(6)	5	50
138.39	429.0	42(6)	11(6)	5(4)	17(6)	9.4(2)	13.9(4)	26.3(4)	50.3(0)	6.1(2)	15(4)	5	38
129.99	541.0	32(4)	8(4)	8(6)	7(2)	2.9(2)	23.4(4)	56.2(6)	17.4(6)	0.4(6)	21(6)	5	46
Plum Creek (14-063)													
Year: 2008													
0.13	29.0	32(4)	5(4)	2(4)	18(4)	16.6(4)	0.7(2)	18.8(4)	63.6(0)	9.7(4)	14(6)	5	36
Stony Creek (14-072)													
Year: 2008													
2.45	35.4	54(6)	10(6)	3(4)	33(6)	28.0(6)	21.0(6)	18.4(4)	32.2(4)	9.9(4)	22(6)	5	52
1.58	59.1	50(6)	14(6)	7(6)	20(6)	7.3(2)	46.6(6)	27.0(4)	18.9(6)	3.6(6)	18(6)	5	54
McKees Creek (14-075)													
Year: 2008													
0.52	17.7	47(6)	7(6)	8(6)	26(6)	15.5(4)	28.1(6)	24.0(6)	31.7(4)	6.8(6)	17(6)	5	56
Bokengehalas Creek (14-076)													
Year: 2008													
7.90 B	20.7	43(6)	3(2)	5(6)	24(6)	1.5(2)	1.4(2)	36.8(6)	59.1(2)	13.6(4)	13(6)	5	42
7.90 C	20.7	32(4)	8(6)	2(4)	15(4)	4.1(2)	9.8(6)	63.5(6)	21.5(6)	1.9(6)	10(4)	5	48
4.61	36.3	31(4)	7(4)	2(4)	17(4)	2.5(2)	4.0(2)	57.0(6)	35.2(4)	5.0(6)	13(6)	5	42
1.13	40.3	35(4)	6(4)	6(6)	16(4)	9.9(2)	18.0(6)	39.8(6)	30.4(4)	5.1(6)	17(6)	5	48
Bluejacket Creek (14-077)													
Year: 2009													
6.31	2.9	40(6)	2(0)	1(4)	27(6)	0.5(2)	1.8(6)	16.8(4)	80.8(0)	11.1(4)	8(4)	5	36
5.50	3.9	34(4)	1(0)	4(6)	19(4)	3.9(2)	33.4(6)	11.2(4)	50.9(2)	1.6(6)	5(2)	5	36
0.72	13.6	47(6)	3(2)	5(6)	26(6)	1.9(2)	1.3(2)	28.7(6)	63.8(0)	9.5(4)	11(6)	5	40
Rum Creek (14-078)													
Year: 2008													
0.79	27.2	33(4)	9(6)	1(2)	16(4)	63.0(6)	4.9(4)	5.1(2)	19.9(6)	0.4(6)	13(6)	5	46
Cherokee Mans Run (14-084)													
Year: 2008													
3.38	14.6	45(6)	7(6)	4(6)	24(6)	9.1(2)	1.4(2)	29.2(6)	58.4(2)	20.9(2)	15(6)	5	44
Loramie Creek (14-600)													
Year: 2008													
30.42	35.0	38(6)	2(0)	1(2)	21(6)	1.3(2)	2.7(2)	35.7(6)	57.6(2)	3.3(6)	3(0)	5	32
20.70	82.0	25(4)	2(0)	3(4)	13(2)	3.0(2)	11.7(4)	41.4(6)	43.9(4)	3.0(6)	5(2)	5	34
18.82	148.0	31(4)	5(2)	3(4)	12(2)	7.2(2)	0.1(2)	18.3(4)	71.2(0)	15.9(0)	4(0)	5	20
14.80	157.0	23(2)	1(0)	3(4)	9(2)	0.1(2)	3.2(2)	2.7(2)	93.7(0)	15.5(0)	9(2)	5	16

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			
Loramie Creek (14-600)													
Year: 2008													
7.50	205.0	34(4)	6(4)	4(4)	18(6)	14.6(2)	4.8(2)	25.4(4)	55.1(0)	4.6(4)	15(4)	5	34
1.87	257.0	51(6)	9(6)	7(6)	22(6)	25.8(4)	4.9(2)	14.6(2)	53.3(0)	2.3(6)	14(4)	5	42
Turtle Creek (14-603)													
Year: 2008													
0.43	35.9	35(4)	6(4)	1(2)	22(6)	23.1(4)	0.1(2)	14.6(4)	60.6(2)	5.7(6)	18(6)	5	40
Ninemile Creek (14-606)													
Year: 2008													
6.38	3.0	27(4)	5(4)	1(4)	10(2)	2.5(2)	1.1(6)	12.6(4)	82.7(0)	51.3(0)	1(0)	5	26
4.18	11.5	34(4)	2(0)	1(2)	18(4)	1.0(2)	0.5(2)	24.3(6)	71.4(0)	13.3(4)	8(4)	5	28
0.23	26.6	42(6)	6(4)	2(4)	23(6)	5.3(2)	0.3(2)	27.1(6)	66.1(0)	16.8(2)	11(4)	5	36
Mile Creek (14-609)													
Year: 2008													
5.97	34.7	33(4)	2(0)	1(2)	13(2)	9.7(2)	0.2(2)	1.0(2)	32.6(4)	12.4(4)	2(0)	5	22
0.50	62.3	26(4)	3(2)	2(4)	8(2)	2.0(2)	0.1(2)	1.4(2)	95.5(0)	26.5(0)	5(2)	5	20
Muchinippi Creek (14-700)													
Year: 2008													
7.40	36.0	34(4)	6(4)	2(4)	18(4)	16.3(4)	19.5(6)	38.6(6)	21.7(6)	2.7(6)	13(6)	5	50
4.76	77.0	33(4)	5(2)	1(2)	16(4)	5.5(2)	0.1(2)	36.4(6)	56.6(2)	14.2(2)	8(2)	5	28
2.37	85.0	25(4)	1(0)	0(0)	14(4)	0.9(2)	0.0(0)	1.8(2)	96.5(0)	57.0(0)	4(0)	5	12
Little Muchinippi Creek (14-703)													
Year: 2008													
0.62	35.2	43(6)	3(2)	3(4)	21(6)	1.8(2)	16.0(6)	19.0(4)	62.1(2)	17.6(2)	7(2)	5	36
South Fork Great Miami River (14-800)													
Year: 2008													
8.00	11.6	55(6)	6(4)	6(6)	30(6)	18.1(4)	9.1(6)	16.9(4)	53.1(2)	5.2(6)	15(6)	5	50
7.23	19.5	53(6)	7(6)	6(6)	28(6)	11.0(2)	7.6(6)	35.5(6)	44.2(4)	7.4(6)	17(6)	5	54
5.80	29.6	38(6)	8(6)	5(6)	18(4)	17.9(4)	8.7(6)	45.3(6)	27.8(6)	3.2(6)	16(6)	5	56
3.60	47.0	46(6)	7(4)	5(6)	23(6)	10.3(2)	5.6(2)	31.2(6)	51.9(2)	8.8(4)	19(6)	5	44
1.74	51.0	29(4)	4(2)	5(6)	14(4)	31.3(6)	17.2(6)	17.4(4)	33.9(4)	5.4(6)	18(6)	5	48
Liggitt Ditch (14-801)													
Year: 2008													
0.53	6.5	39(6)	4(2)	3(6)	21(6)	5.5(2)	2.6(6)	29.8(6)	57.8(2)	7.4(6)	11(6)	5	48
North Fork Great Miami River (14-802)													
Year: 2008													
10.70	9.0	39(6)	3(2)	1(4)	24(6)	4.3(2)	0.5(4)	14.8(4)	74.6(0)	29.9(0)	12(6)	5	34
Miami-Erie Canal (14-999)													
Year: 2008													
0.10	4.3	26(4)	0(0)	3(6)	16(4)	0.0(0)	3.0(6)	30.5(6)	66.2(0)	0.7(6)	5(2)	5	34

APPENDIX G

Summary of Macroinvertebrate Collection Data by Site from the Upper Great Miami River Basin

and

Macroinvertebrate Species Lists by Site from the Upper Great Miami River Basin, 2008-09

River Mile	All Taxa			Sen. Taxa			EPT Taxa		CW	Ql. Tol.	Ql. S					
	Total	Qt.	Ql.	Total	Qt.	Ql.	Total	Ql.	Taxa	Taxa	T	QCTV	ICI	Nar.	Drain	Comments
Great Miami River (14-001)																
Year: 2008																
158.90	41		41	3		3		6	0	10	0.30	38.0		F	118.0	
157.22	47	33	26	4	4	1	7	2	0	7	0.14	35.3	36		131.0	
153.45	29		29	1		1		7	0	8	0.13	36.8		F	247.0	
146.19	54	33	36	11	10	6	14	10	0	8	0.75	39.2	42		296.0	
143.20	70	36	53	25	15	17	25	17	1	10	1.70	42.5	50		405.0	
142.50	53		53	15		15		18	0	7	2.14	41.0		E	406.0	
138.39	69	42	51	20	13	14	21	15	0	9	1.56	39.8	38		429.0	
129.99	73	32	61	27	12	21	28	21	0	10	2.10	42.1	46		541.0	
Plum Creek (14-063)																
Year: 2008																
9.00	44		44	2		2		10	1	15	0.13	34.8		MG	7.8	
5.22	49		49	7		7		14	0	11	0.64	38.0		G	14.7	
0.13	71	32	54	16	7	12	15	14	2	10	1.20	39.6	36		29.0	X8
Indian Creek (14-069)																
Year: 2008																
0.01	56		56	14		14		18	0	7	2.00	39.9		E	15.9	
Stony Creek (14-072)																
Year: 2008																
2.45	95	54	69	25	15	16	24	22	3	12	1.33	39.6	52		35.4	
1.58	90	50	68	25	14	17	29	18	0	13	1.31	39.6	54		59.1	
Lee Creek (14-073)																
Year: 2008																
3.35	56		56	16		16		20	4	10	1.60	41.0		E	9.5	
Graves Creek (14-074)																
Year: 2008																
0.48	47		47	13		13		13	5	9	1.44	41.0		G	10.9	
McKees Creek (14-075)																
Year: 2008																
9.50	45		45	12		12		13	8	8	1.50	41.6		VG	3.0	
5.94	61		61	22		22		23	9	6	3.67	42.3		E	8.7	
0.52	75	47	48	24	13	17	22	17	5	2	8.50	42.3	56		17.7	
Bokengehalas Creek (14-076)																
Year: 2008																
12.24 A	62		62	12		12		15	3	14	0.86	38.9		VG	4.8	
7.90 A	33		33	5		5		4	0	8	0.63	37.6		P	20.7	
7.90 B	84	43	75	12	7	11	14	13	3	20	0.55	37.6	42		20.7	
7.90 C	62	32	49	15	10	8	15	10	2	13	0.62	37.8	48		20.7	
4.61	62	31	52	16	6	13	16	13	0	6	2.17	40.0	42		36.3	

River Mile	All Taxa			Sen. Taxa			EPT Taxa		CW	Ql. Tol.	Ql. S					
	Total	Qt.	Ql.	Total	Qt.	Ql.	Total	Ql.	Taxa	Taxa	T	QCTV	ICI	Nar.	Drain	Comments
Bokengehalas Creek (14-076)																
1.13	69	35	52	18	10	12	20	17	0	9	1.33	41.8	48		40.3	
Bluejacket Creek (14-077)																
Year: 2009																
6.31	62	40	42	11	7	7	9	8	6	9	0.78	37.6	36		2.9	X19
5.50	49	34	37	3	2	3	6	5	0	8	0.38	38.9	36		3.9	X19
0.72	74	47	49	12	5	9	13	11	1	13	0.69	38.0	40		13.6	
Year: 2008																
6.31	35		35	8		8		5	7	6	1.33	41.0		MG	2.9	
5.50	43		43	3		3		6	4	16	0.19	34.3		F	3.9	
0.72	35		35	9		9		7	1	6	1.50	39.9		F	13.6	
Rum Creek (14-078)																
Year: 2008																
8.63	28		28	0		0		4	0	9	0.00	34.3		F	8.2	
6.58	41		41	5		5		9	0	12	0.42	35.6		MG	15.3	
0.79	62	33	47	14	9	11	15	13	0	8	1.38	39.9	46		27.2	X15
Brandywine Creek (14-083)																
Year: 2008																
0.58	46		46	2		2		4	0	13	0.15	33.7		F	8.8	
Cherokee Mans Run (14-084)																
Year: 2008																
7.56	38		38	8		8		10	4	5	1.60	39.9		MG	8.5	
3.38	74	45	54	11	6	9	16	15	0	6	1.50	40.8	44		14.6	
Trib. to Great Miami R. (RM 157.34) (14-092)																
Year: 2008																
0.07	32		32	0		0		4	0	16	0.00	33.6		LF	7.6	
Rennick Creek (14-199)																
Year: 2008																
0.34	42		42	3		3		5	0	12	0.25	35.5		F	10.3	
Loramie Creek (14-600)																
Year: 2008																
36.84	35		35	0		0		6	0	13	0.00	34.8		F	6.8	
34.96	35		35	0		0		1	0	16	0.00	33.1		P	15.9	
30.42	57	38	36	0	0	0	4	3	0	14	0.00	33.1	32		35.0	X15
22.10	29		29	1		1		3	0	15	0.07	28.0		P	77.7	
20.70	51	25	42	3	3	2	6	5	0	13	0.15	34.3	34		82.0	
19.30	36		36	3		3		5	0	15	0.20	31.5		F	147.0	
18.82	40	31	28	2	2	1	8	4	0	11	0.09	31.5	20		148.0	X15
14.80	60	23	54	5	3	4	11	9	0	21	0.19	34.8	16		157.0	X15
7.50	59	34	47	16	5	13	18	15	0	9	1.44	39.8	34		205.0	X15

River Mile	All Taxa			Sen. Taxa			EPT Taxa		CW	Ql. Tol.	Ql. S					
	Total	Qt.	Ql.	Total	Qt.	Ql.	Total	Ql.	Taxa	Taxa	T	QCTV	ICI	Nar.	Drain	Comments
Loramie Creek (14-600)																
1.87	86	51	61	22	13	15	21	14	0	13	1.15	37.6	42		257.0	X8
Turtle Creek (14-603)																
Year: 2008																
8.42	44		44	0		0		5	0	16	0.00	35.3		F	8.4	
5.66	36		36	3		3		9	1	8	0.38	39.2		MG	17.3	
0.43	71	35	57	18	4	16	18	18	1	7	2.29	41.0	40	E	35.9	X8
Ninemile Creek (14-606)																
Year: 2008																
6.38	40	27	20	1	1	0	6	1	0	18	0.00	23.4	26		3.0	X8,19
4.18	59	34	46	4	1	4	8	8	2	15	0.27	35.5	28		11.5	X8
0.23	66	42	50	11	5	8	12	11	1	8	1.00	39.6	36		26.6	X15
Mile Creek (14-609)																
Year: 2008																
9.80	18		18	0		0		1	0	9	0.00	31.8		P	9.7	
8.74	27		27	1		1		5	0	15	0.07	31.8		LF	18.5	
5.97	43	33	25	0	0	0	3	2	0	18	0.00	23.6	22		34.7	X8,13
0.50	52	26	39	0	0	0	9	5	0	23	0.00	31.5	20	HF	62.3	X8
Spring Creek (14-615)																
Year: 2008																
0.37	35		35	1		1		6	0	16	0.06	33.6		HF	8.8	
Muchinippi Creek (14-700)																
Year: 2008																
12.98	41		41	4		4		11	0	12	0.33	36.8		MG	6.8	
12.50	44		44	2		2		8	1	17	0.12	34.7		MG	16.0	
7.40	63	34	47	7	4	6	14	13	0	10	0.60	37.6	50		36.0	
4.76	55	33	42	6	2	6	9	8	0	12	0.50	36.8	28	MG	77.0	X13,15
2.37	51	25	31	0	0	0	5	4	0	16	0.00	34.7	12		85.0	X8
Little Muchinippi Creek (14-703)																
Year: 2008																
6.05	48		48	2		2		5	0	20	0.10	33.7		F	9.3	
0.62	64	43	49	2	2	1	8	7	0	14	0.07	37.6	36		35.2	
Jackson Center Creek (14-705)																
Year: 2008																
2.90	35		35	0		0		3	0	17	0.00	33.1		P	1.1	
1.80	47		47	0		0		4	0	24	0.00	33.1		P	3.4	
Willow Creek (14-706)																
Year: 2008																
3.70	38		38	1		1		4	0	19	0.05	31.8		F	8.1	
0.44	34		34	1		1		4	0	10	0.10	34.8		F	15.1	

River Mile	All Taxa			Sen. Taxa			EPT Taxa		CW Taxa	Ql. Tol. Taxa	Ql. S T	QCTV	ICI	Nar.	Drain	Comments
	Total	Qt.	Ql.	Total	Qt.	Ql.	Total	Ql.								
South Fork Great Miami River (14-800)																
Year: 2008																
8.00	70	55	41	17	10	10	17	15	2	7	1.43	41.0	50		11.6	
7.23	82	53	62	20	11	15	19	17	1	6	2.50	41.0	54		19.5	
5.80	67	38	49	14	6	11	19	16	0	6	1.83	39.8	56		29.6	
3.60	76	46	62	15	7	12	20	19	1	14	0.86	39.6	44		47.0	X15
1.74	67	29	51	16	5	13	21	18	0	7	1.86	41.0	48		51.0	
Liggitt Ditch (14-801)																
Year: 2008																
0.53	51	39	33	6	2	5	12	11	1	8	0.63	37.6	48		6.5	X19
North Fork Great Miami River (14-802)																
Year: 2009																
6.31	51		51	7		7		11	1	10	0.70	38.9		G	14.4	
Year: 2008																
10.70	69	39	48	4	2	2	13	12	0	15	0.13	37.2	34		9.0	X8,19
6.31	18		18	1		1		3	0	5	0.20	36.8		P	14.4	
Van Horn Creek (14-804)																
Year: 2008																
0.97	38		38	1		1		5	1	12	0.08	35.5		F	2.8	
Trib. to S. Fk. Great Miami R. (RM 7.24) (14-805)																
Year: 2008																
0.55	46		46	7		7		10	1	10	0.70	39.2		MG	7.2	
Trib. to S. Fk. Great Miami R. (RM 5.27) (14-806)																
Year: 2008																
0.49	63		63	10		10		16	1	11	0.91	39.6		E	11.4	
Miami-Erie Canal (14-999)																
Year: 2008																
0.10	43	26	35	2	1	1	6	5	0	9	0.11	34.3	34		4.3	X19

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Great Miami River

Collection Date: 09/03/2008 River Code: 14-001 RM: 158.90

Taxa Code	Taxa	Quant/Qual
03360	*Plumatella sp*	+
03600	*Oligochaeta*	+
05900	*Lirceus sp*	+
06201	*Hyalella azteca*	+
06700	*Crangonyx sp*	+
08250	*Orconectes (Procericambarus) rusticus*	+
08601	*Hydrachnidia*	+
11120	*Baetis flavistriga*	+
11130	*Baetis intercalaris*	+
13400	*Stenacron sp*	+
17200	*Caenis sp*	+
21200	*Calopteryx sp*	+
22001	*Coenagrionidae*	+
22300	*Argia sp*	+
23909	*Boyeria vinosa*	+
43300	*Ranatra sp*	+
44501	*Corixidae*	+
47600	*Sialis sp*	+
52200	*Cheumatopsyche sp*	+
59410	*Nectopsyche diarina*	+
67700	*Paracymus sp*	+
68075	*Psephenus herricki*	+
68601	*Ancyronyx variegata*	+
68707	*Dubiraphia quadrinotata*	+
68708	*Dubiraphia vittata group*	+
68901	*Macronychus glabratus*	+
69400	*Stenelmis sp*	+
72700	*Anopheles sp*	+
77120	*Ablabesmyia mallochi*	+
77750	*Hayesomyia senata or Thienemannimyia norena*	+
78655	*Procladius (Holotanypus) sp*	+
82730	*Chironomus (C.) decorus group*	+
84210	*Paratendipes albimanus or P. duplicatus*	+
84300	*Phaenopsectra obediens group*	+
84450	*Polypedilum (Uresipedilum) flavum*	+
84470	*Polypedilum (P.) illinoense*	+
84750	*Stictochironomus sp*	+
85800	*Tanytarsus sp*	+
93900	*Elimia sp*	+
95100	*Physella sp*	+
97601	*Corbicula fluminea*	+

Taxa Code	Taxa	Quant/Qual

No. Quantitative Taxa: 0 Total Taxa: 41

No. Qualitative Taxa: 41 ICI:

Number of Organisms: 0 Qual EPT: 6

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Great Miami River
St. Rt. 235 dst. Russells Point WWTP

Collection Date: 09/03/2008 River Code: 14-001 RM: 157.22

Taxa Code	Taxa	Quant/Qual
01320	*Hydra sp*	8
03360	*Plumatella sp*	1
03600	*Oligochaeta*	+
04661	*Helobdella elongata*	+
05900	*Lirceus sp*	+
06700	*Crangonyx sp*	+
08250	*Orconectes (Procericambarus) rusticus*	+
11120	*Baetis flavistriga*	4
11130	*Baetis intercalaris*	194 +
12200	*Isonychia sp*	5
13561	*Maccaffertium pulchellum*	8
22001	*Coenagrionidae*	+
22300	*Argia sp*	94 +
51206	*Cyrnellus fraternus*	10
52200	*Cheumatopsyche sp*	2423 +
52560	*Hydropsyche orris*	30
60400	*Gyrinus sp*	+
68601	*Ancyronyx variegata*	2 +
68702	*Dubiraphia bivittata*	+
68708	*Dubiraphia vittata group*	+
68901	*Macronychus glabratus*	14 +
69400	*Stenelmis sp*	1 +
74100	*Simulium sp*	70 +
77120	*Ablabesmyia mallochi*	+
77500	*Conchapelopia sp*	8
77750	*Hayesomyia senata or Thienemannimyia norena*	57 +
78655	*Procladius (Holotanypus) sp*	+
80370	*Corynoneura lobata*	8
81231	*Nanocladius (N.) crassicornus or N. (N.) "rectinervis"*	16
81240	*Nanocladius (N.) distinctus*	8
81825	*Rheocricotopus (Psilocricotopus) robacki*	16
82121	*Thienemanniella lobapodema*	4
82141	*Thienemanniella xena*	256
82730	*Chironomus (C.) decorus group*	8 +
82820	*Cryptochironomus sp*	+
83040	*Dicrotendipes neomodestus*	8
83300	*Glyptotendipes (G.) sp*	8
84450	*Polypedilum (Uresipedilum) flavum*	202 +
84470	*Polypedilum (P.) illinoense*	8
84540	*Polypedilum (Tripodura) scalaenum group*	+
85625	*Rheotanytarsus sp*	500 +
85821	*Tanytarsus glabrescens group sp 7*	32
87540	*Hemerodromia sp*	1
93900	*Elimia sp*	2 +
96120	*Menetus (Micromenetus) dilatatus*	1
96900	*Ferrissia sp*	6
97601	*Corbicula fluminea*	+

No. Quantitative Taxa: 33 Total Taxa: 47
No. Qualitative Taxa: 26 ICI: **36**
Number of Organisms: 4013 Qual EPT: 2

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Great Miami River

Collection Date: 09/04/2008 River Code: 14-001 RM: 153.45

Taxa Code	Taxa	Quant/Qual
00401	*Spongillidae*	+
03600	*Oligochaeta*	+
05800	*Caecidotea sp*	+
05900	*Lirceus sp*	+
06700	*Crangonyx sp*	+
08250	*Orconectes (Procericambarus) rusticus*	+
08601	*Hydrachnidia*	+
11130	*Baetis intercalaris*	+
13400	*Stenacron sp*	+
13521	*Stenonema femoratum*	+
17200	*Caenis sp*	+
18700	*Hexagenia sp*	+
21200	*Calopteryx sp*	+
22001	*Coenagrionidae*	+
22300	*Argia sp*	+
45100	*Palmacorixa sp*	+
47600	*Sialis sp*	+
52200	*Cheumatopsyche sp*	+
57900	*Pycnopsyche sp*	+
69400	*Stenelmis sp*	+
77750	*Hayesomyia senata or Thienemannimyia norena*	+
78401	*Natarsia species A (sensu Roback, 1978)*	+
78655	*Procladius (Holotanypus) sp*	+
82820	*Cryptochironomus sp*	+
83840	*Microtendipes pedellus group*	+
84540	*Polypedilum (Tripodura) scalaenum group*	+
84750	*Stictochironomus sp*	+
96900	*Ferrissia sp*	+
97601	*Corbicula fluminea*	+

Taxa Code	Taxa	Quant/Qual

No. Quantitative Taxa: 0 Total Taxa: 29

No. Qualitative Taxa: 29 ICI:

Number of Organisms: 0 Qual EPT: 7

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Great Miami River
St. Rt. 235 at DeGraff

Collection Date: 09/02/2008 River Code: 14-001 RM: 146.19

Taxa Code	Taxa	Quant/Qual	
01200	*Cordylophora lacustris*	1	+
01320	*Hydra sp*	1	
01801	*Turbellaria*		+
03360	*Plumatella sp*		+
03600	*Oligochaeta*	8	
05800	*Caecidotea sp*		+
05900	*Lirceus sp*		+
06700	*Crangonyx sp*		+
07800	*Cambarus sp*		+
08250	*Orconectes (Procericambarus) rusticus*		+
11020	*Acerpenna pygmaea*	5	+
11130	*Baetis intercalaris*	230	+
12200	*Isonychia sp*	9	
13000	*Leucrocuta sp*	21	+
13100	*Nixe sp*		+
13400	*Stenacron sp*	105	+
13561	*Maccaffertium pulchellum*	109	+
13570	*Maccaffertium terminatum*	8	+
17200	*Caenis sp*		+
18600	*Ephemera sp*	1	+
21200	*Calopteryx sp*		+
22001	*Coenagrionidae*	4	+
22300	*Argia sp*		+
24107	*Nasiaeschna pentacantha*		+
45400	*Trichocorixa sp*		+
48410	*Corydalus cornutus*	1	
50906	*Psychomyia flavida*	4	
52200	*Cheumatopsyche sp*	750	+
52430	*Ceratopsyche morosa group*	58	
52530	*Hydropsyche depravata group*	11	
67800	*Tropisternus sp*		+
68601	*Ancyronyx variegata*		+
68708	*Dubiraphia vittata group*		+
68901	*Macronychus glabratus*	23	+
69400	*Stenelmis sp*	14	+
77120	*Ablabesmyia mallochi*		+
77500	*Conchapelopia sp*	2	
78450	*Nilotanypus fimbriatus*	5	
80350	*Corynoneura sp*	8	
80370	*Corynoneura lobata*	20	
80410	*Cricotopus (C.) sp*	2	
82141	*Thienemanniella xena*	4	
82220	*Tvetenia discoloripes group*	2	
83040	*Dicrotendipes neomodestus*	2	
83840	*Microtendipes pedellus group*	3	+
84450	*Polypedilum (Uresipedilum) flavum*	92	+
84460	*Polypedilum (P.) fallax group*	2	
84540	*Polypedilum (Tripodura) scalaenum group*		+
84750	*Stictochironomus sp*		+
85625	*Rheotanytarsus sp*	65	+
85821	*Tanytarsus glabrescens group sp 7*	2	
85840	*Tanytarsus sepp*	2	
96900	*Ferrissia sp*		+
97601	*Corbicula fluminea*		+

No. Quantitative Taxa: 33 Total Taxa: 54
No. Qualitative Taxa: 36 ICI: **42**
Number of Organisms: 1574 Qual EPT: 10

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Great Miami River
St. Rt. 235

Collection Date: 09/02/2008 River Code: 14-001 RM: 143.20

Taxa Code	Taxa	Quant/Qual
00650	*Eunapius sp*	+
01801	*Turbellaria*	36 +
03360	*Plumatella sp*	3
03600	*Oligochaeta*	+
05800	*Caecidotea sp*	+
06201	*Hyalella azteca*	+
06700	*Crangonyx sp*	+
08250	*Orconectes (Procericambarus) rusticus*	+
08601	*Hydrachnidia*	+
11020	*Acerpenna pygmaea*	3
11119	*Plauditus dubius or P. virilis*	2
11120	*Baetis flavistriga*	20
11130	*Baetis intercalaris*	807 +
12200	*Isonychia sp*	159 +
13000	*Leucrocuta sp*	24 +
13100	*Nixe sp*	+
13400	*Stenacron sp*	3 +
13510	*Maccaffertium exiguum*	8
13550	*Maccaffertium mexicanum integrum*	3
13561	*Maccaffertium pulchellum*	348 +
14950	*Leptophlebia sp or Paraleptophlebia sp*	+
16700	*Tricorythodes sp*	+
17200	*Caenis sp*	32 +
18708	*Hexagenia bilineata*	+
22001	*Coenagrionidae*	+
22300	*Argia sp*	+
24900	*Gomphus sp*	+
33100	*Leuctra sp*	+
43570	*Neoplea sp*	+
47600	*Sialis sp*	+
48410	*Corydalus cornutus*	2 +
49101	*Sisyridae*	+
50315	*Chimarra obscura*	+
50906	*Psychomyia flavida*	1
52200	*Cheumatopsyche sp*	2720 +
52430	*Ceratopsyche morosa group*	1580 +
52530	*Hydropsyche depravata group*	190
52801	*Potamyia flava*	1
53800	*Hydroptila sp*	67 +
57400	*Neophylax sp*	+
57900	*Pycnopsyche sp*	+
59970	*Petrophila sp*	+
60900	*Peltodytes sp*	+
63300	*Hydroporini*	+
68708	*Dubiraphia vittata group*	+
68901	*Macronychus glabratus*	19 +
69400	*Stenelmis sp*	34 +
74100	*Simulium sp*	530 +
80310	*Cardiocladius obscurus*	338
80410	*Cricotopus (C.) sp*	169
80420	*Cricotopus (C.) bicinctus*	56
80430	*Cricotopus (C.) tremulus group*	225
82130	*Thienemanniella similis*	112 +
82141	*Thienemanniella xena*	32
82220	*Tvetenia discoloripes group*	169
82730	*Chironomus (C.) decorus group*	+
82820	*Cryptochironomus sp*	+
83040	*Dicrotendipes neomodestus*	56
84450	*Polypedilum (Uresipedilum) flavum*	1578 +
84540	*Polypedilum (Tripodura) scalaenum group*	+
85625	*Rheotanytarsus sp*	2255 +
87540	*Hemerodromia sp*	34
92613	*Cipangopaludina chinensis malleata*	+
93900	*Elimia sp*	8 +
97601	*Corbicula fluminea*	+
98200	*Pisidium sp*	+
98600	*Sphaerium sp*	16 +
99280	*Lasmigona costata*	+
99400	*Quadrula quadrula*	+
99860	*Lampsilis radiata luteola*	+

No. Quantitative Taxa: 36 Total Taxa: 70
No. Qualitative Taxa: 53 ICI: **50**
Number of Organisms: 11640 Qual EPT: 17

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Great Miami River
dst. Quincy WWTP

Collection Date: 09/02/2008 River Code: 14-001 RM: 142.50

Taxa Code	Taxa	Quant/Qual
03360	*Plumatella sp*	+
03600	*Oligochaeta*	+
04683	*Placobdella multilineata*	+
04685	*Placobdella ornata*	+
05800	*Caecidotea sp*	+
06201	*Hyalella azteca*	+
06700	*Crangonyx sp*	+
08250	*Orconectes (Procericambarus) rusticus*	+
11120	*Baetis flavistriga*	+
11130	*Baetis intercalaris*	+
12200	*Isonychia sp*	+
13000	*Leucrocuta sp*	+
13400	*Stenacron sp*	+
13510	*Maccaffertium exiguum*	+
13561	*Maccaffertium pulchellum*	+
16700	*Tricorythodes sp*	+
17200	*Caenis sp*	+
18600	*Ephemera sp*	+
21200	*Calopteryx sp*	+
22300	*Argia sp*	+
23909	*Boyeria vinosa*	+
24900	*Gomphus sp*	+
47600	*Sialis sp*	+
50906	*Psychomyia flavida*	+
51300	*Neureclipsis sp*	+
52200	*Cheumatopsyche sp*	+
52430	*Ceratopsyche morosa group*	+
52530	*Hydropsyche depravata group*	+
53501	*Hydroptilidae*	+
57400	*Neophylax sp*	+
57900	*Pycnopsyche sp*	+
59970	*Petrophila sp*	+
68075	*Psephenus herricki*	+
68130	*Helichus sp*	+
68601	*Ancyronyx variegata*	+
68708	*Dubiraphia vittata group*	+
68901	*Macronychus glabratus*	+
69400	*Stenelmis sp*	+
74100	*Simulium sp*	+
82141	*Thienemanniella xena*	+
82820	*Cryptochironomus sp*	+
83040	*Dicrotendipes neomodestus*	+
83300	*Glyptotendipes (G.) sp*	+
83840	*Microtendipes pedellus group*	+
84450	*Polypedilum (Uresipedilum) flavum*	+
84520	*Polypedilum (Tripodura) halterale group*	+
84540	*Polypedilum (Tripodura) scalaenum group*	+
85625	*Rheotanytarsus sp*	+
85800	*Tanytarsus sp*	+
87540	*Hemerodromia sp*	+
93900	*Elimia sp*	+
98600	*Sphaerium sp*	+
99860	*Lampsilis radiata luteola*	+

No. Quantitative Taxa: 0 Total Taxa: 53
No. Qualitative Taxa: 53 ICI:
Number of Organisms: 0 Qual EPT: 18

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Great Miami River
Baker-Pence Rd.

Collection Date: 09/02/2008 River Code: 14-001 RM: 138.39

Taxa Code	Taxa	Quant/Qual	
01200	*Cordylophora lacustris*		+
01320	*Hydra sp*	64	
01801	*Turbellaria*	1	
03360	*Plumatella sp*	1	+
03600	*Oligochaeta*	64	+
05900	*Lirceus sp*		+
06201	*Hyalella azteca*		+
08250	*Orconectes (Procericambarus) rusticus*		+
11130	*Baetis intercalaris*	1	+
11670	*Procloeon viridoculare*		+
12200	*Isonychia sp*	20	
13000	*Leucrocuta sp*	51	
13400	*Stenacron sp*	95	+
13510	*Maccaffertium exiguum*	37	+
13550	*Maccaffertium mexicanum integrum*	39	
13561	*Maccaffertium pulchellum*	79	+
13570	*Maccaffertium terminatum*	7	
14950	*Leptophlebia sp or Paraleptophlebia sp*	24	
16700	*Tricorythodes sp*	134	+
17200	*Caenis sp*	246	+
18100	*Anthopotamus sp*		+
18600	*Ephemera sp*		+
21200	*Calopteryx sp*		+
22001	*Coenagrionidae*		+
22300	*Argia sp*	5	
23909	*Boyeria vinosa*		+
24900	*Gomphus sp*		+
45100	*Palmacorixa sp*		+
47600	*Sialis sp*		+
51300	*Neureclipsis sp*	7	+
52200	*Cheumatopsyche sp*	921	+
52430	*Ceratopsyche morosa group*	38	+
52520	*Hydropsyche bidens*	1	+
53800	*Hydroptila sp*	119	
59410	*Nectopsyche diarina*		+
59415	*Nectopsyche exquisita*		+
59970	*Petrophila sp*		+
68075	*Psephenus herricki*		+
68601	*Ancyronyx variegata*	1	+
68708	*Dubiraphia vittata group*		+
68901	*Macronychus glabratus*	4	+
69400	*Stenelmis sp*	3	+
77120	*Ablabesmyia mallochi*	59	+
77750	*Hayesomyia senata or Thienemannimyia norena*		+
78655	*Procladius (Holotanypus) sp*		+
80360	*Corynoneura "celeripes" (sensu Simpson & Bode, 1980)*	32	
80410	*Cricotopus (C.) sp*	649	+
80420	*Cricotopus (C.) bicinctus*	295	+
80490	*Cricotopus (Isocladius) intersectus group*	118	
81231	*Nanocladius (N.) crassicornus or N. (N.) "rectinervis"*	59	
82100	*Thienemanniella sp*	59	
82730	*Chironomus (C.) decorus group*		+
82885	*Cryptotendipes pseudotener*		+
83040	*Dicrotendipes neomodestus*	1711	+
83310	*Glyptotendipes (Heynotendipes) amplus*	59	
83400	*Harnischia sp*		+
83840	*Microtendipes pedellus group*	177	+
84300	*Phaenopsectra obediens group*		+
84450	*Polypedilum (Uresipedilum) flavum*	472	
84460	*Polypedilum (P.) fallax group*	118	
84800	*Tribelos jucundum*		+
85625	*Rheotanytarsus sp*	1416	+
85800	*Tanytarsus sp*	295	+
85821	*Tanytarsus glabrescens group sp 7*	59	+
85840	*Tanytarsus sepp*	295	
87540	*Hemerodromia sp*	1	
93900	*Elimia sp*	1	+
96900	*Ferrissia sp*		+
97601	*Corbicula fluminea*		+

No. Quantitative Taxa: 42 Total Taxa: 69
No. Qualitative Taxa: 51 ICI: **38**
Number of Organisms: 7837 Qual EPT: 15

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Great Miami River
St. Rt. 47 (East North St.)

Collection Date: 09/02/2008 River Code: 14-001 RM: 129.99

Taxa Code	Taxa	Quant/Qual
01801	*Turbellaria*	1 +
03360	*Plumatella sp*	2
03600	*Oligochaeta*	128 +
06700	*Crangonyx sp*	+
08250	*Orconectes (Procericambarus) rusticus*	+
08601	*Hydrachnidia*	64 +
11020	*Acerpenna pygmaea*	1
11119	*Plauditus dubius or P. virilis*	+
11120	*Baetis flavistriga*	+
11130	*Baetis intercalaris*	327 +
11620	*Paracloeodes minutus*	+
11650	*Procloeon sp (w/ hindwing pads)*	+
11670	*Procloeon viridoculare*	+
12200	*Isonychia sp*	47 +
13000	*Leucrocuta sp*	+
13100	*Nixe sp*	+
13400	*Stenacron sp*	+
13510	*Maccaffertium exiguum*	19
13540	*Maccaffertium mediopunctatum*	3
13561	*Maccaffertium pulchellum*	379 +
13570	*Maccaffertium terminatum*	+
16700	*Tricorythodes sp*	65 +
17200	*Caenis sp*	1 +
18100	*Anthopotamus sp*	+
18600	*Ephemera sp*	+
21200	*Calopteryx sp*	+
21300	*Hetaerina sp*	+
22001	*Coenagrionidae*	+
22300	*Argia sp*	1 +
26700	*Macromia sp*	+
47600	*Sialis sp*	+
50315	*Chimarra obscura*	+
51300	*Neureclipsis sp*	7 +
52200	*Cheumatopsyche sp*	3410 +
52430	*Ceratopsyche morosa group*	2929 +
52520	*Hydropsyche bidens*	254
52530	*Hydropsyche depravata group*	6
52540	*Hydropsyche dicantha*	30
52560	*Hydropsyche orris*	4
53800	*Hydroptila sp*	196 +
59970	*Petrophila sp*	10 +
60900	*Peltodytes sp*	+
65800	*Berosus sp*	+
68130	*Helichus sp*	+
68601	*Ancyronyx variegata*	+
68708	*Dubiraphia vittata group*	+
68901	*Macronychus glabratus*	10 +
69400	*Stenelmis sp*	1 +
74100	*Simulium sp*	131 +
77750	*Hayesomyia senata or Thienemannimyia norena*	+
78140	*Labrundinia pilosella*	648
78450	*Nilotanypus fimbriatus*	216
78655	*Procladius (Holotanypus) sp*	+
79085	*Telopelopia okoboji*	+
80310	*Cardiocladius obscurus*	+
80410	*Cricotopus (C.) sp*	216
80440	*Cricotopus (C.) trifascia*	+
82730	*Chironomus (C.) decorus group*	+
82820	*Cryptochironomus sp*	+
83040	*Dicrotendipes neomodestus*	216 +
84300	*Phaenopsectra obediens group*	+
84450	*Polypedilum (Uresipedilum) flavum*	3459 +
84470	*Polypedilum (P.) illinoense*	+
84750	*Stictochironomus sp*	+
84888	*Xenochironomus xenolabis*	+
85263	*Cladotanytarsus vanderwulpi group Type 3*	+
85625	*Rheotanytarsus sp*	16428 +
85800	*Tanytarsus sp*	+
93900	*Elimia sp*	+
96120	*Menetus (Micromenetus) dilatatus*	+
96900	*Ferrissia sp*	1
97601	*Corbicula fluminea*	+
98600	*Sphaerium sp*	+

No. Quantitative Taxa: 32 Total Taxa: 73
No. Qualitative Taxa: 61 ICI: **46**
Number of Organisms: 29210 Qual EPT: 21

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Plum Creek

Collection Date: 08/07/2008 River Code: 14-063 RM: 9.00

Taxa Code	Taxa	Quant/Qual
01801	*Turbellaria*	+
03600	*Oligochaeta*	+
04601	*Glossiphoniidae*	+
04666	*Helobdella triserialis*	+
04935	*Erpobdella punctata punctata*	+
05900	*Lirceus sp*	+
06201	*Hyalella azteca*	+
08250	*Orconectes (Procericambarus) rusticus*	+
11130	*Baetis intercalaris*	+
11200	*Callibaetis sp*	+
13400	*Stenacron sp*	+
13521	*Stenonema femoratum*	+
17200	*Caenis sp*	+
22001	*Coenagrionidae*	+
27500	*Somatochlora sp*	+
42700	*Belostoma sp*	+
52200	*Cheumatopsyche sp*	+
52530	*Hydropsyche depravata group*	+
53800	*Hydroptila sp*	+
58505	*Helicopsyche borealis*	+
59728	*Triaenodes marginatus*	+
60900	*Peltodytes sp*	+
65800	*Berosus sp*	+
67800	*Tropisternus sp*	+
68702	*Dubiraphia bivittata*	+
69400	*Stenelmis sp*	+
71900	*Tipula sp*	+
77120	*Ablabesmyia mallochi*	+
77140	*Ablabesmyia peleensis*	+
77800	*Helopelopia sp*	+
78350	*Meropelopia sp*	+
80411	*Cricotopus (Isocladius) sp nr. absurdus*	+
83000	*Dicrotendipes sp*	+
83820	*Microtendipes "caelum" (sensu Simpson & Bode, 1980)*	+
84210	*Paratendipes albimanus or P. duplicatus*	+
84450	*Polypedilum (Uresipedilum) flavum*	+
84750	*Stictochironomus sp*	+
85230	*Cladotanytarsus mancus group*	+
85625	*Rheotanytarsus sp*	+
85821	*Tanytarsus glabrescens group sp 7*	+
86100	*Chrysops sp*	+
95100	*Physella sp*	+
96264	*Planorbella (Pierosoma) pilsbryi*	+
98600	*Sphaerium sp*	+

Taxa Code	Taxa	Quant/Qual

No. Quantitative Taxa: 0 Total Taxa: 44

No. Qualitative Taxa: 44 ICI:

Number of Organisms: 0 Qual EPT: 10

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Plum Creek

Collection Date: 08/07/2008 River Code: 14-063 RM: 5.22

Taxa Code	Taxa	Quant/Qual
01801	*Turbellaria*	+
03600	*Oligochaeta*	+
06201	*Hyalella azteca*	+
08250	*Orconectes (Procericambarus) rusticus*	+
11018	*Acerpenna macdunnoughi*	+
11130	*Baetis intercalaris*	+
11200	*Callibaetis sp*	+
13400	*Stenacron sp*	+
13521	*Stenonema femoratum*	+
13561	*Maccaffertium pulchellum*	+
17200	*Caenis sp*	+
21300	*Hetaerina sp*	+
22001	*Coenagrionidae*	+
22300	*Argia sp*	+
44501	*Corixidae*	+
47600	*Sialis sp*	+
51600	*Polycentropus sp*	+
52200	*Cheumatopsyche sp*	+
52430	*Ceratopsyche morosa group*	+
53800	*Hydroptila sp*	+
58505	*Helicopsyche borealis*	+
59410	*Nectopsyche diarina*	+
59728	*Triaenodes marginatus*	+
65800	*Berosus sp*	+
68075	*Psephenus herricki*	+
68702	*Dubiraphia bivittata*	+
68708	*Dubiraphia vittata group*	+
69400	*Stenelmis sp*	+
77120	*Ablabesmyia mallochi*	+
77500	*Conchapelopia sp*	+
77800	*Helopelopia sp*	+
78655	*Procladius (Holotanypus) sp*	+
80410	*Cricotopus (C.) sp*	+
82730	*Chironomus (C.) decorus group*	+
82820	*Cryptochironomus sp*	+
83040	*Dicrotendipes neomodestus*	+
83840	*Microtendipes pedellus group*	+
84315	*Phaenopsectra flavipes*	+
84450	*Polypedilum (Uresipedilum) flavum*	+
84470	*Polypedilum (P.) illinoense*	+
84520	*Polypedilum (Tripodura) halterale group*	+
84540	*Polypedilum (Tripodura) scalaenum group*	+
84960	*Pseudochironomus sp*	+
85230	*Cladotanytarsus mancus group*	+
85625	*Rheotanytarsus sp*	+
85800	*Tanytarsus sp*	+
85821	*Tanytarsus glabrescens group sp 7*	+
95100	*Physella sp*	+
98600	*Sphaerium sp*	+

No. Quantitative Taxa: 0 Total Taxa: 49

No. Qualitative Taxa: 49 ICI:

Number of Organisms: 0 Qual EPT: 14

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Plum Creek
Canal Feeder Rd.

Collection Date: 09/02/2008 River Code: 14-063 RM: 0.13

Taxa Code	Taxa	Quant	Qual
01320	*Hydra sp*	4	
01801	*Turbellaria*	1	
03040	*Fredericella sp*		+
03600	*Oligochaeta*	19	+
05800	*Caecidotea sp*		+
05900	*Lirceus sp*	1	+
06201	*Hyalella azteca*		+
07875	*Cambarus (Tubericambarus) polychromatus*		+
08250	*Orconectes (Procericambarus) rusticus*		+
11120	*Baetis flavistriga*		+
11130	*Baetis intercalaris*		+
11651	*Procloeon sp (w/o hindwing pads)*	6	+
13000	*Leucrocuta sp*	7	+
13400	*Stenacron sp*	27	+
13521	*Stenonema femoratum*	54	+
17200	*Caenis sp*	2	+
21200	*Calopteryx sp*		+
22001	*Coenagrionidae*	1	+
22300	*Argia sp*		+
23909	*Boyeria vinosa*		+
43300	*Ranatra sp*		+
47600	*Sialis sp*		+
50315	*Chimarra obscura*		+
50804	*Lype diversa*	3	
51600	*Polycentropus sp*	1	+
52200	*Cheumatopsyche sp*		+
52430	*Ceratopsyche morosa group*		+
52530	*Hydropsyche depravata group*		+
57400	*Neophylax sp*		+
58505	*Helicopsyche borealis*		+
68075	*Psephenus herricki*		+
68708	*Dubiraphia vittata group*	1	+
68901	*Macronychus glabratus*		+
69225	*Optioservus fastiditus*		+
69400	*Stenelmis sp*		+
71100	*Hexatoma sp*		+
72700	*Anopheles sp*		+
74100	*Simulium sp*		+
77120	*Ablabesmyia mallochi*	45	
77500	*Conchapelopia sp*		+
77800	*Helopelopia sp*		+
78140	*Labrundinia pilosella*	52	+
78401	*Natarsia species A (sensu Roback, 1978)*		+
78655	*Procladius (Holotanypus) sp*		+
80360	*Corynoneura "celeripes" (sensu Simpson & Bode, 1980)*	2	
80370	*Corynoneura lobata*	109	
81270	*Nanocladius (N.) spiniplenus*	4	
81650	*Parametriocnemus sp*		+
82101	*Thienemanniella taurocapita*	7	
82121	*Thienemanniella lobapodema*	2	
82730	*Chironomus (C.) decorus group*		+
82820	*Cryptochironomus sp*		+
83040	*Dicrotendipes neomodestus*	11	+
83840	*Microtendipes pedellus group*	63	+
84210	*Paratendipes albimanus or P. duplicatus*	4	+
84450	*Polypedilum (Uresipedilum) flavum*		+
84460	*Polypedilum (P.) fallax group*	30	
84480	*Polypedilum (P.) laetum group*		+
84540	*Polypedilum (Tripodura) scalaenum group*		+
84750	*Stictochironomus sp*		+
84800	*Tribelos jucundum*		+
84960	*Pseudochironomus sp*	4	
85500	*Paratanytarsus sp*	49	+
85501	*Paratanytarsus longistilus*	4	
85625	*Rheotanytarsus sp*	41	
85821	*Tanytarsus glabrescens group sp 7*	11	
85840	*Tanytarsus sepp*	4	
87540	*Hemerodromia sp*	4	
93900	*Elimia sp*		+
96900	*Ferrissia sp*	7	
98600	*Sphaerium sp*		+

No. Quantitative Taxa: 32 Total Taxa: 71
No. Qualitative Taxa: 54 ICI: **36**
Number of Organisms: 580 Qual EPT: 14

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Indian Creek
at mouth

Collection Date: 08/07/2008 River Code: 14-069 RM: 0.01

Taxa Code	Taxa	Quant/Qual
07870	*Cambarus (Tubericambarus) sp*	+
08250	*Orconectes (Procericambarus) rusticus*	+
08601	*Hydrachnidia*	+
11120	*Baetis flavistriga*	+
11125	*Pseudocloeon frondale*	+
11130	*Baetis intercalaris*	+
11250	*Centroptilum sp (w/o hindwing pads)*	+
11670	*Procloeon viridoculare*	+
13000	*Leucrocuta sp*	+
13400	*Stenacron sp*	+
13590	*Maccaffertium vicarium*	+
17200	*Caenis sp*	+
21200	*Calopteryx sp*	+
22001	*Coenagrionidae*	+
23909	*Boyeria vinosa*	+
24900	*Gomphus sp*	+
45000	*Hesperocorixa sp*	+
48620	*Nigronia serricornis*	+
50315	*Chimarra obscura*	+
52200	*Cheumatopsyche sp*	+
52430	*Ceratopsyche morosa group*	+
52530	*Hydropsyche depravata group*	+
57400	*Neophylax sp*	+
57900	*Pycnopsyche sp*	+
58505	*Helicopsyche borealis*	+
59300	*Mystacides sp*	+
59730	*Triaenodes melaca*	+
60900	*Peltodytes sp*	+
67000	*Helophorus sp*	+
68130	*Helichus sp*	+
68601	*Ancyronyx variegata*	+
68707	*Dubiraphia quadrinotata*	+
68708	*Dubiraphia vittata group*	+
68901	*Macronychus glabratus*	+
69225	*Optioservus fastiditus*	+
69400	*Stenelmis sp*	+
72340	*Dixella sp*	+
72700	*Anopheles sp*	+
74100	*Simulium sp*	+
77500	*Conchapelopia sp*	+
77800	*Helopelopia sp*	+
80420	*Cricotopus (C.) bicinctus*	+
81825	*Rheocricotopus (Psilocricotopus) robacki*	+
83040	*Dicrotendipes neomodestus*	+
83840	*Microtendipes pedellus group*	+
84210	*Paratendipes albimanus or P. duplicatus*	+
84300	*Phaenopsectra obediens group*	+
84450	*Polypedilum (Uresipedilum) flavum*	+
84470	*Polypedilum (P.) illinoense*	+
84540	*Polypedilum (Tripodura) scalaenum group*	+
84750	*Stictochironomus sp*	+
85500	*Paratanytarsus sp*	+
85800	*Tanytarsus sp*	+
87540	*Hemerodromia sp*	+
93900	*Elimia sp*	+
95100	*Physella sp*	+

No. Quantitative Taxa: 0 Total Taxa: 56
No. Qualitative Taxa: 56 ICI:
Number of Organisms: 0 Qual EPT: 18

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Stony Creek
St. Rt. 508

Collection Date: 09/03/2008 River Code: 14-072 RM: 2.45

Taxa Code	Taxa	Quant/Qual		Taxa Code	Taxa	Quant/Qual	
02600	*Nematomorpha*		+	68700	*Dubiraphia sp*	4	
03360	*Plumatella sp*		+	68702	*Dubiraphia bivittata*		+
03600	*Oligochaeta*	92	+	68707	*Dubiraphia quadrinotata*		+
06201	*Hyalella azteca*		+	68708	*Dubiraphia vittata group*		+
08250	*Orconectes (Procericambarus) rusticus*		+	68901	*Macronychus glabratus*	5	+
08601	*Hydrachnidia*	4	+	69400	*Stenelmis sp*	1	+
11120	*Baetis flavistriga*	19	+	72700	*Anopheles sp*		+
11125	*Pseudocloeon frondale*		+	74100	*Simulium sp*		+
11130	*Baetis intercalaris*	10	+	77120	*Ablabesmyia mallochi*	6	
11155	*Iswaeon anoka*		+	77130	*Ablabesmyia rhamphe group*		+
11200	*Callibaetis sp*		+	77500	*Conchapelopia sp*	61	
11430	*Diphetor hageni*	1		77800	*Helopelopia sp*	46	
12200	*Isonychia sp*	102	+	78450	*Nilotanypus fimbriatus*	16	+
13100	*Nixe sp*		+	78500	*Paramerina fragilis*	6	
13400	*Stenacron sp*	210	+	78600	*Pentaneura inconspicua*	6	
13561	*Maccaffertium pulchellum*	112	+	78655	*Procladius (Holotanypus) sp*		+
13590	*Maccaffertium vicarium*	89	+	80370	*Corynoneura lobata*	76	
14950	*Leptophlebia sp or Paraleptophlebia sp*	46	+	80430	*Cricotopus (C.) tremulus group*	6	
15501	*Ephemerellidae*	12		81632	*Parakiefferiella n.sp 2*	13	
16700	*Tricorythodes sp*		+	81650	*Parametriocnemus sp*	6	
17200	*Caenis sp*	42	+	81825	*Rheocricotopus (Psilocricotopus) robacki*	25	
17600	*Baetisca sp*		+	82101	*Thienemanniella taurocapita*	20	+
19102	*Ephoron album*		+	82200	*Tvetenia bavarica group*	6	
21200	*Calopteryx sp*		+	82220	*Tvetenia discoloripes group*	6	
22001	*Coenagrionidae*		+	82820	*Cryptochironomus sp*	6	+
22300	*Argia sp*		+	83040	*Dicrotendipes neomodestus*	6	
23909	*Boyeria vinosa*		+	83840	*Microtendipes pedellus group*	13	+
24900	*Gomphus sp*		+	84155	*Paralauterborniella nigrohalteralis*	6	+
42700	*Belostoma sp*		+	84210	*Paratendipes albimanus or P. duplicatus*	6	
43300	*Ranatra sp*		+	84300	*Phaenopsectra obediens group*	19	+
45300	*Sigara sp*		+	84440	*Polypedilum (Uresipedilum) aviceps*	6	
47600	*Sialis sp*		+	84450	*Polypedilum (Uresipedilum) flavum*	107	+
52200	*Cheumatopsyche sp*	452	+	84460	*Polypedilum (P.) fallax group*	44	
52430	*Ceratopsyche morosa group*	16	+	84470	*Polypedilum (P.) illinoense*		+
52450	*Ceratopsyche sparna*		+	84540	*Polypedilum (Tripodura) scalaenum group*		+
52530	*Hydropsyche depravata group*	13	+	85261	*Cladotanytarsus vanderwulpi group Type 1*	6	
57400	*Neophylax sp*		+	85501	*Paratanytarsus longistilus*	6	
58505	*Helicopsyche borealis*		+	85615	*Rheotanytarsus pellucidus*	44	
59410	*Nectopsyche diarina*		+	85625	*Rheotanytarsus sp*	220	+
60400	*Gyrinus sp*		+	85752	*Sublettea coffmani*	6	
60900	*Peltodytes sp*		+	85800	*Tanytarsus sp*	57	+
66500	*Enochrus sp*		+	85802	*Tanytarsus curticornis*	13	
68025	*Ectopria sp*		+	85821	*Tanytarsus glabrescens group sp 7*	25	
68075	*Psephenus herricki*		+	85840	*Tanytarsus sepp*	44	

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Stony Creek
St. Rt. 508

Collection Date: 09/03/2008 River Code: 14-072 RM: 2.45

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
86100	*Chrysops sp*	+			
87540	*Hemerodromia sp*	13 +			
93900	*Elimia sp*	13 +			
95100	*Physella sp*	+			
96900	*Ferrissia sp*	92 +			
97601	*Corbicula fluminea*	12 +			
98600	*Sphaerium sp*	+			

No. Quantitative Taxa: 54 Total Taxa: 95
No. Qualitative Taxa: 69 ICI: **52**
Number of Organisms: 2293 Qual EPT: 22

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Stony Creek
Collection Date: 09/03/2008 River Code: 14-072 RM: 1.58 Twp. Rd. 65A

Taxa Code	Taxa	Quant/Qual	
01320	*Hydra sp*	8	
01801	*Turbellaria*		+
03600	*Oligochaeta*	185	+
06700	*Crangonyx sp*		+
08601	*Hydrachnidia*	145	+
11116	*Plauditus cestus*		+
11119	*Plauditus dubius or P. virilis*		+
11120	*Baetis flavistriga*	11	
11125	*Pseudocloeon frondale*		+
11130	*Baetis intercalaris*	144	+
11155	*Iswaeon anoka*	1	+
11430	*Diphetor hageni*	16	
12200	*Isonychia sp*	68	+
13000	*Leucrocuta sp*	1	
13100	*Nixe sp*		+
13400	*Stenacron sp*	49	
13510	*Maccaffertium exiguum*	22	
13521	*Stenonema femoratum*	1	
13590	*Maccaffertium vicarium*	252	
14950	*Leptophlebia sp or Paraleptophlebia sp*	40	
16700	*Tricorythodes sp*	3	+
17200	*Caenis sp*	9	+
17600	*Baetisca sp*		+
18600	*Ephemera sp*	8	
21200	*Calopteryx sp*	3	+
22001	*Coenagrionidae*		+
22300	*Argia sp*		+
23600	*Aeshna sp*		+
23909	*Boyeria vinosa*		+
24900	*Gomphus sp*		+
45100	*Palmacorixa sp*		+
47600	*Sialis sp*		+
52200	*Cheumatopsyche sp*	1732	+
52430	*Ceratopsyche morosa group*	642	+
52450	*Ceratopsyche sparna*	166	+
52530	*Hydropsyche depravata group*	1423	+
53800	*Hydroptila sp*	16	
55300	*Ptilostomis sp*		+
57900	*Pycnopsyche sp*		+
59410	*Nectopsyche diarina*	2	+
59500	*Oecetis sp*	16	
59700	*Triaenodes sp*		+
60400	*Gyrinus sp*		+
63300	*Hydroporini*		+
67750	*Sperchopsis tesselatus*		+
68601	*Ancyronyx variegata*		+
68901	*Macronychus glabratus*	17	
69400	*Stenelmis sp*	1	+
70600	*Antocha sp*	8	
71100	*Hexatoma sp*		+
72700	*Anopheles sp*		+
74100	*Simulium sp*	26	+
77120	*Ablabesmyia mallochi*		+
77500	*Conchapelopia sp*	75	+
77800	*Helopelopia sp*		+
78450	*Nilotanypus fimbriatus*	32	
78655	*Procladius (Holotanypus) sp*		+
80370	*Corynoneura lobata*	80	
80420	*Cricotopus (C.) bicinctus*	37	+
80430	*Cricotopus (C.) tremulus group*	75	+
81825	*Rheocricotopus (Psilocricotopus) robacki*	224	+
82200	*Tvetenia bavarica group*	37	+
82730	*Chironomus (C.) decorus group*		+
82820	*Cryptochironomus sp*		+
82885	*Cryptotendipes pseudotener*		+
83820	*Microtendipes "caelum" (sensu Simpson & Bode, 1980)*		+
83840	*Microtendipes pedellus group*	37	+
84300	*Phaenopsectra obediens group*		+
84450	*Polypedilum (Uresipedilum) flavum*	523	+
84460	*Polypedilum (P.) fallax group*	37	+
84470	*Polypedilum (P.) illinoense*		+
84475	*Polypedilum (P.) ophioides*		+
84612	*Saetheria tylus*		+
84800	*Tribelos jucundum*		+
84960	*Pseudochironomus sp*		+
85230	*Cladotanytarsus mancus group*		+
85500	*Paratanytarsus sp*	112	+
85615	*Rheotanytarsus pellucidus*	75	
85625	*Rheotanytarsus sp*	1755	+
85720	*Stempellinella fimbriata*		+
85752	*Sublettea coffmani*	75	
85800	*Tanytarsus sp*	149	
85821	*Tanytarsus glabrescens group sp 7*	112	
85840	*Tanytarsus sepp*	37	
87540	*Hemerodromia sp*	11	
93900	*Elimia sp*		+
95100	*Physella sp*	1	+
96900	*Ferrissia sp*	52	+

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Stony Creek
Twp. Rd. 65A

Collection Date: 09/03/2008 River Code: 14-072 RM: 1.58

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
97601	*Corbicula fluminea*	27 +			
98600	*Sphaerium sp*	+			

No. Quantitative Taxa: 50 Total Taxa: 90
No. Qualitative Taxa: 68 ICI: **54**
Number of Organisms: 8578 Qual EPT: 18

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Lee Creek
Friend Rd.

Collection Date: 07/23/2008 River Code: 14-073 RM: 3.35

Taxa Code	Taxa	Quant/Qual
01801	*Turbellaria*	+
03600	*Oligochaeta*	+
04685	*Placobdella ornata*	+
06201	*Hyalella azteca*	+
08200	*Orconectes sp*	+
11115	*Baetis tricaudatus*	+
11120	*Baetis flavistriga*	+
11125	*Pseudocloeon frondale*	+
11130	*Baetis intercalaris*	+
11430	*Diphetor hageni*	+
11651	*Procloeon sp (w/o hindwing pads)*	+
13000	*Leucrocuta sp*	+
13400	*Stenacron sp*	+
13521	*Stenonema femoratum*	+
13590	*Maccaffertium vicarium*	+
15000	*Paraleptophlebia sp*	+
21200	*Calopteryx sp*	+
23909	*Boyeria vinosa*	+
34500	*Perlesta placida complex*	+
43570	*Neoplea sp*	+
44300	*Pelocoris sp*	+
44501	*Corixidae*	+
47600	*Sialis sp*	+
51206	*Cyrnellus fraternus*	+
52200	*Cheumatopsyche sp*	+
52430	*Ceratopsyche morosa group*	+
52440	*Ceratopsyche slossonae*	+
52530	*Hydropsyche depravata group*	+
53300	*Glossosoma sp*	+
57400	*Neophylax sp*	+
58505	*Helicopsyche borealis*	+
63300	*Hydroporini*	+
66200	*Cymbiodyta sp*	+
68075	*Psephenus herricki*	+
68130	*Helichus sp*	+
68901	*Macronychus glabratus*	+
69400	*Stenelmis sp*	+
71100	*Hexatoma sp*	+
74100	*Simulium sp*	+
74501	*Ceratopogonidae*	+
77800	*Helopelopia sp*	+
80720	*Eukiefferiella brevicalcar group*	+
82141	*Thienemanniella xena*	+
82730	*Chironomus (C.) decorus group*	+
82885	*Cryptotendipes pseudotener*	+
83840	*Microtendipes pedellus group*	+
84315	*Phaenopsectra flavipes*	+
84440	*Polypedilum (Uresipedilum) aviceps*	+
84450	*Polypedilum (Uresipedilum) flavum*	+
84470	*Polypedilum (P.) illinoense*	+
84480	*Polypedilum (P.) laetum group*	+
84750	*Stictochironomus sp*	+
87501	*Empididae*	+
87540	*Hemerodromia sp*	+
93900	*Elimia sp*	+
98600	*Sphaerium sp*	+

No. Quantitative Taxa: 0 Total Taxa: 56
No. Qualitative Taxa: 56 ICI:
Number of Organisms: 0 Qual EPT: 20

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Graves Creek
Twp. Rd. 295

Collection Date: 07/23/2008 River Code: 14-074 RM: 0.48

Taxa Code	Taxa	Quant/Qual
03600	*Oligochaeta*	+
04901	*Erpobdellidae*	+
05900	*Lirceus sp*	+
07870	*Cambarus (Tubericambarus) sp*	+
08601	*Hydrachnidia*	+
11018	*Acerpenna macdunnoughi*	+
11113	*Baetis brunneicolor*	+
11115	*Baetis tricaudatus*	+
11120	*Baetis flavistriga*	+
11125	*Pseudocloeon frondale*	+
11430	*Diphetor hageni*	+
13500	*Maccaffertium sp*	+
21200	*Calopteryx sp*	+
23909	*Boyeria vinosa*	+
43570	*Neoplea sp*	+
52200	*Cheumatopsyche sp*	+
52430	*Ceratopsyche morosa group*	+
52440	*Ceratopsyche slossonae*	+
52450	*Ceratopsyche sparna*	+
57900	*Pycnopsyche sp*	+
59410	*Nectopsyche diarina*	+
60900	*Peltodytes sp*	+
67800	*Tropisternus sp*	+
68130	*Helichus sp*	+
68707	*Dubiraphia quadrinotata*	+
69400	*Stenelmis sp*	+
71100	*Hexatoma sp*	+
74100	*Simulium sp*	+
77500	*Conchapelopia sp*	+
78450	*Nilotanypus fimbriatus*	+
79720	*Diamesa sp*	+
80410	*Cricotopus (C.) sp*	+
80420	*Cricotopus (C.) bicinctus*	+
80430	*Cricotopus (C.) tremulus group*	+
80440	*Cricotopus (C.) trifascia*	+
82200	*Tvetenia bavarica group*	+
84210	*Paratendipes albimanus or P. duplicatus*	+
84440	*Polypedilum (Uresipedilum) aviceps*	+
84450	*Polypedilum (Uresipedilum) flavum*	+
84470	*Polypedilum (P.) illinoense*	+
84480	*Polypedilum (P.) laetum group*	+
84750	*Stictochironomus sp*	+
85500	*Paratanytarsus sp*	+
85800	*Tanytarsus sp*	+
87540	*Hemerodromia sp*	+
95100	*Physella sp*	+
98600	*Sphaerium sp*	+

No. Quantitative Taxa: 0
No. Qualitative Taxa: 47
Number of Organisms: 0

Total Taxa: 47
ICI:
Qual EPT: 13

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: McKees Creek
Ludlow Rd.

Collection Date: 07/15/2008 River Code: 14-075 RM: 9.50

Taxa Code	Taxa	Quant/Qual
03600	*Oligochaeta*	+
08601	*Hydrachnidia*	+
11014	*Acentrella turbida*	+
11113	*Baetis brunneicolor*	+
11120	*Baetis flavistriga*	+
11130	*Baetis intercalaris*	+
11430	*Diphetor hageni*	+
21200	*Calopteryx sp*	+
23909	*Boyeria vinosa*	+
33100	*Leuctra sp*	+
34500	*Perlesta placida complex*	+
52200	*Cheumatopsyche sp*	+
52430	*Ceratopsyche morosa group*	+
52440	*Ceratopsyche slossonae*	+
52450	*Ceratopsyche sparna*	+
53300	*Glossosoma sp*	+
58020	*Lepidostoma sp*	+
60900	*Peltodytes sp*	+
63300	*Hydroporini*	+
68130	*Helichus sp*	+
68707	*Dubiraphia quadrinotata*	+
69225	*Optioservus fastiditus*	+
70600	*Antocha sp*	+
74100	*Simulium sp*	+
77500	*Conchapelopia sp*	+
77800	*Helopelopia sp*	+
78350	*Meropelopia sp*	+
80420	*Cricotopus (C.) bicinctus*	+
80430	*Cricotopus (C.) tremulus group*	+
81430	*Orthocladius (Euorthocladius) sp*	+
81460	*Orthocladius (O.) sp*	+
81650	*Parametriocnemus sp*	+
81690	*Paratrichocladius sp*	+
81825	*Rheocricotopus (Psilocricotopus) robacki*	+
82121	*Thienemanniella lobapodema*	+
82141	*Thienemanniella xena*	+
82200	*Tvetenia bavarica group*	+
83840	*Microtendipes pedellus group*	+
84116	*Paracladopelma nereis*	+
84450	*Polypedilum (Uresipedilum) flavum*	+
84470	*Polypedilum (P.) illinoense*	+
85400	*Micropsectra sp*	+
85625	*Rheotanytarsus sp*	+
85720	*Stempellinella fimbriata*	+
95100	*Physella sp*	+

No. Quantitative Taxa: 0
No. Qualitative Taxa: 45
Number of Organisms: 0

Total Taxa: 45
ICI:
Qual EPT: 13

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: McKees Creek
Twp. Rd. 32

Collection Date: 07/15/2008 River Code: 14-075 RM: 5.94

Taxa Code	Taxa	Quant/Qual
00401	*Spongillidae*	+
06201	*Hyalella azteca*	+
07701	*Cambaridae*	+
08601	*Hydrachnidia*	+
11014	*Acentrella turbida*	+
11113	*Baetis brunneicolor*	+
11120	*Baetis flavistriga*	+
11125	*Pseudocloeon frondale*	+
11130	*Baetis intercalaris*	+
12200	*Isonychia sp*	+
13400	*Stenacron sp*	+
13590	*Maccaffertium vicarium*	+
16700	*Tricorythodes sp*	+
21200	*Calopteryx sp*	+
22001	*Coenagrionidae*	+
23909	*Boyeria vinosa*	+
24900	*Gomphus sp*	+
32200	*Amphinemura sp*	+
33100	*Leuctra sp*	+
44501	*Corixidae*	+
47600	*Sialis sp*	+
50301	*Chimarra aterrima*	+
51600	*Polycentropus sp*	+
52200	*Cheumatopsyche sp*	+
52430	*Ceratopsyche morosa group*	+
52440	*Ceratopsyche slossonae*	+
52450	*Ceratopsyche sparna*	+
52530	*Hydropsyche depravata group*	+
53300	*Glossosoma sp*	+
57400	*Neophylax sp*	+
57900	*Pycnopsyche sp*	+
58505	*Helicopsyche borealis*	+
59720	*Triaenodes ignitus*	+
60900	*Peltodytes sp*	+
68130	*Helichus sp*	+
68708	*Dubiraphia vittata group*	+
68901	*Macronychus glabratus*	+
69225	*Optioservus fastiditus*	+
69400	*Stenelmis sp*	+
71100	*Hexatoma sp*	+
71900	*Tipula sp*	+
74100	*Simulium sp*	+
77500	*Conchapelopia sp*	+
77800	*Helopelopia sp*	+
78350	*Meropelopia sp*	+
80420	*Cricotopus (C.) bicinctus*	+
80750	*Eukiefferiella devonica group*	+
81650	*Parametriocnemus sp*	+
82101	*Thienemanniella taurocapita*	+
82200	*Tvetenia bavarica group*	+
83840	*Microtendipes pedellus group*	+
84210	*Paratendipes albimanus or P. duplicatus*	+
84440	*Polypedilum (Uresipedilum) aviceps*	+
84450	*Polypedilum (Uresipedilum) flavum*	+
84470	*Polypedilum (P.) illinoense*	+
84750	*Stictochironomus sp*	+
85625	*Rheotanytarsus sp*	+
85800	*Tanytarsus sp*	+
87540	*Hemerodromia sp*	+
93900	*Elimia sp*	+
95100	*Physella sp*	+

No. Quantitative Taxa: 0
No. Qualitative Taxa: 61
Number of Organisms: 0

Total Taxa: 61
ICI:
Qual EPT: 23

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: McKees Creek
Co. Rd. 31

Collection Date: 08/27/2008 River Code: 14-075 RM: 0.52

Taxa Code	Taxa	Quant/Qual
03360	*Plumatella sp*	+
03600	*Oligochaeta*	249
08250	*Orconectes (Procericambarus) rusticus*	+
08601	*Hydrachnidia*	8 +
11113	*Baetis brunneicolor*	+
11120	*Baetis flavistriga*	561 +
11130	*Baetis intercalaris*	47 +
12200	*Isonychia sp*	30 +
13400	*Stenacron sp*	32 +
13590	*Maccaffertium vicarium*	119 +
14950	*Leptophlebia sp or Paraleptophlebia sp*	9
15501	*Ephemerellidae*	84
21200	*Calopteryx sp*	18 +
23909	*Boyeria vinosa*	+
43570	*Neoplea sp*	+
47600	*Sialis sp*	+
50301	*Chimarra aterrima*	4
50804	*Lype diversa*	+
51600	*Polycentropus sp*	+
52200	*Cheumatopsyche sp*	374 +
52430	*Ceratopsyche morosa group*	749 +
52440	*Ceratopsyche slossonae*	201 +
52450	*Ceratopsyche sparna*	201 +
52530	*Hydropsyche depravata group*	67 +
53800	*Hydroptila sp*	1
57400	*Neophylax sp*	+
57900	*Pycnopsyche sp*	+
58505	*Helicopsyche borealis*	+
59300	*Mystacides sp*	+
59500	*Oecetis sp*	2
68130	*Helichus sp*	+
68601	*Ancyronyx variegata*	+
68708	*Dubiraphia vittata group*	+
68901	*Macronychus glabratus*	16 +
69225	*Optioservus fastiditus*	+
69400	*Stenelmis sp*	5
70600	*Antocha sp*	20
71100	*Hexatoma sp*	+
72340	*Dixella sp*	+
74100	*Simulium sp*	5 +
77100	*Ablabesmyia sp*	28
77500	*Conchapelopia sp*	+
77800	*Helopelopia sp*	56
78450	*Nilotanypus fimbriatus*	139
80204	*Brillia flavifrons group*	+
80370	*Corynoneura lobata*	16
80420	*Cricotopus (C.) bicinctus*	56
80430	*Cricotopus (C.) tremulus group*	28
80750	*Eukiefferiella devonica group*	+
81650	*Parametriocnemus sp*	28
82101	*Thienemanniella taurocapita*	82
82121	*Thienemanniella lobapodema*	+
82200	*Tvetenia bavarica group*	278 +
82820	*Cryptochironomus sp*	28 +
83040	*Dicrotendipes neomodestus*	+
83300	*Glyptotendipes (G.) sp*	28
83820	*Microtendipes "caelum" (sensu Simpson & Bode, 1980)*	+
84210	*Paratendipes albimanus or P. duplicatus*	+
84300	*Phaenopsectra obediens group*	+
84440	*Polypedilum (Uresipedilum) aviceps*	278 +
84450	*Polypedilum (Uresipedilum) flavum*	389 +
84470	*Polypedilum (P.) illinoense*	83
85261	*Cladotanytarsus vanderwulpi group Type 1*	+
85500	*Paratanytarsus sp*	28
85615	*Rheotanytarsus pellucidus*	56
85625	*Rheotanytarsus sp*	556 +
85720	*Stempellinella fimbriata*	83
85752	*Sublettea coffmani*	306
85800	*Tanytarsus sp*	250
85821	*Tanytarsus glabrescens group sp 7*	56
85840	*Tanytarsus sepp*	28
87501	*Empididae*	2
89700	*Limnophora sp*	1
93900	*Elimia sp*	+
95100	*Physella sp*	1 +

No. Quantitative Taxa: 47 Total Taxa: 75
No. Qualitative Taxa: 48 ICI: **56**
Number of Organisms: 5686 Qual EPT: 17

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Bokengehalas Creek

Collection Date: 08/04/2008 River Code: 14-076 RM: 12.24 A Co. Rd. 13

Taxa Code	Taxa	Quant/Qual
03600	*Oligochaeta*	+
05800	*Caecidotea sp*	+
06201	*Hyalella azteca*	+
07840	*Cambarus (Cambarus) sciotensis*	+
08250	*Orconectes (Procericambarus) rusticus*	+
08601	*Hydrachnidia*	+
11001	*Baetidae*	+
11120	*Baetis flavistriga*	+
11125	*Pseudocloeon frondale*	+
11130	*Baetis intercalaris*	+
11200	*Callibaetis sp*	+
11430	*Diphetor hageni*	+
13400	*Stenacron sp*	+
13521	*Stenonema femoratum*	+
13590	*Maccaffertium vicarium*	+
14950	*Leptophlebia sp or Paraleptophlebia sp*	+
17200	*Caenis sp*	+
22001	*Coenagrionidae*	+
45300	*Sigara sp*	+
52200	*Cheumatopsyche sp*	+
52430	*Ceratopsyche morosa group*	+
52440	*Ceratopsyche slossonae*	+
59300	*Mystacides sp*	+
63300	*Hydroporini*	+
63900	*Laccophilus sp*	+
67800	*Tropisternus sp*	+
68707	*Dubiraphia quadrinotata*	+
68708	*Dubiraphia vittata group*	+
69225	*Optioservus fastiditus*	+
70600	*Antocha sp*	+
70700	*Dicranota sp*	+
71900	*Tipula sp*	+
72700	*Anopheles sp*	+
74100	*Simulium sp*	+
77120	*Ablabesmyia mallochi*	+
77500	*Conchapelopia sp*	+
77750	*Hayesomyia senata or Thienemannimyia norena*	+
77800	*Helopelopia sp*	+
80350	*Corynoneura sp*	+
80410	*Cricotopus (C.) sp*	+
80420	*Cricotopus (C.) bicinctus*	+
80430	*Cricotopus (C.) tremulus group*	+
80440	*Cricotopus (C.) trifascia*	+
81650	*Parametriocnemus sp*	+
81690	*Paratrichocladius sp*	+
82730	*Chironomus (C.) decorus group*	+
82820	*Cryptochironomus sp*	+
83003	*Dicrotendipes fumidus*	+
83040	*Dicrotendipes neomodestus*	+
83840	*Microtendipes pedellus group*	+
84300	*Phaenopsectra obediens group*	+
84315	*Phaenopsectra flavipes*	+
84450	*Polypedilum (Uresipedilum) flavum*	+
84750	*Stictochironomus sp*	+
85263	*Cladotanytarsus vanderwulpi group Type 3*	+
85625	*Rheotanytarsus sp*	+
85800	*Tanytarsus sp*	+
85802	*Tanytarsus curticornis*	+
85840	*Tanytarsus sepp*	+
87540	*Hemerodromia sp*	+
89716	*Limnophora discreta*	+
95100	*Physella sp*	+

No. Quantitative Taxa: 0 Total Taxa: 62

No. Qualitative Taxa: 62 ICI:

Number of Organisms: 0 Qual EPT: 15

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Bokengehalas Creek

Collection Date: 08/04/2008 River Code: 14-076 RM: 7.90 A Twp. Rd. 31

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
03600	*Oligochaeta*	+			
04685	*Placobdella ornata*	+			
08601	*Hydrachnidia*	+			
11155	*Iswaeon anoka*	+			
43570	*Neoplea sp*	+			
45300	*Sigara sp*	+			
52200	*Cheumatopsyche sp*	+			
59300	*Mystacides sp*	+			
59410	*Nectopsyche diarina*	+			
68708	*Dubiraphia vittata group*	+			
68901	*Macronychus glabratus*	+			
69400	*Stenelmis sp*	+			
78655	*Procladius (Holotanypus) sp*	+			
80204	*Brillia flavifrons group*	+			
81700	*Psectrocladius sp*	+			
81825	*Rheocricotopus (Psilocricotopus) robacki*	+			
82200	*Tvetenia bavarica group*	+			
82730	*Chironomus (C.) decorus group*	+			
82820	*Cryptochironomus sp*	+			
82885	*Cryptotendipes pseudotener*	+			
84210	*Paratendipes albimanus or P. duplicatus*	+			
84300	*Phaenopsectra obediens group*	+			
84450	*Polypedilum (Uresipedilum) flavum*	+			
84470	*Polypedilum (P.) illinoense*	+			
84480	*Polypedilum (P.) laetum group*	+			
84612	*Saetheria tylus*	+			
84700	*Stenochironomus sp*	+			
85500	*Paratanytarsus sp*	+			
85800	*Tanytarsus sp*	+			
86100	*Chrysops sp*	+			
95100	*Physella sp*	+			
96900	*Ferrissia sp*	+			
98600	*Sphaerium sp*	+			

No. Quantitative Taxa: 0 Total Taxa: 33

No. Qualitative Taxa: 33 ICI:

Number of Organisms: 0 Qual EPT: 4

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Bokengehalas Creek

Collection Date: 08/27/2008 River Code: 14-076 RM: 7.90 B Twp. Rd. 31

Taxa Code	Taxa	Quant/Qual	
01320	*Hydra sp*	40	
03600	*Oligochaeta*	56	+
04664	*Helobdella stagnalis*		+
04685	*Placobdella ornata*		+
04935	*Erpobdella punctata punctata*		+
04960	*Mooreobdella sp*		+
05800	*Caecidotea sp*		+
06201	*Hyalella azteca*		+
08250	*Orconectes (Procericambarus) rusticus*		+
08601	*Hydrachnidia*	8	+
11120	*Baetis flavistriga*	28	+
11130	*Baetis intercalaris*	25	+
11155	*Iswaeon anoka*	1	+
13400	*Stenacron sp*		+
14950	*Leptophlebia sp or Paraleptophlebia sp*		+
17200	*Caenis sp*		+
21200	*Calopteryx sp*	3	+
22001	*Coenagrionidae*	16	+
22300	*Argia sp*	1	+
42700	*Belostoma sp*		+
43300	*Ranatra sp*		+
45100	*Palmacorixa sp*		+
45300	*Sigara sp*		+
45900	*Notonecta sp*		+
50804	*Lype diversa*		+
52200	*Cheumatopsyche sp*	1	+
52430	*Ceratopsyche morosa group*	26	+
53800	*Hydroptila sp*	17	+
57400	*Neophylax sp*		+
58505	*Helicopsyche borealis*	1	
59310	*Mystacides sepulchralis*		+
59410	*Nectopsyche diarina*	5	+
60400	*Gyrinus sp*		+
60800	*Haliplus sp*		+
63300	*Hydroporini*		+
66500	*Enochrus sp*		+
68601	*Ancyronyx variegata*		+
68707	*Dubiraphia quadrinotata*	1	+
68708	*Dubiraphia vittata group*		+
68901	*Macronychus glabratus*	9	+
69200	*Optioservus sp*		+
69400	*Stenelmis sp*	12	+
71900	*Tipula sp*		+
72700	*Anopheles sp*		+
74100	*Simulium sp*	1	+
74501	*Ceratopogonidae*		+
77120	*Ablabesmyia mallochi*		+
77500	*Conchapelopia sp*	500	+
77800	*Helopelopia sp*	88	+
78140	*Labrundinia pilosella*		+
78655	*Procladius (Holotanypus) sp*		+
80370	*Corynoneura lobata*	32	
80410	*Cricotopus (C.) sp*	29	+
80420	*Cricotopus (C.) bicinctus*		+
81650	*Parametriocnemus sp*	88	
81825	*Rheocricotopus (Psilocricotopus) robacki*	176	+
82730	*Chironomus (C.) decorus group*		+
82820	*Cryptochironomus sp*		+
82885	*Cryptotendipes pseudotener*		+
83003	*Dicrotendipes fumidus*		+
83040	*Dicrotendipes neomodestus*	59	+
83840	*Microtendipes pedellus group*	88	
84210	*Paratendipes albimanus or P. duplicatus*	176	+
84300	*Phaenopsectra obediens group*	59	+
84302	*Phaenopsectra punctipes*		+
84430	*Polypedilum (P.) albicorne*	29	
84440	*Polypedilum (Uresipedilum) aviceps*	59	+
84450	*Polypedilum (Uresipedilum) flavum*	118	+
84460	*Polypedilum (P.) fallax group*	147	
84470	*Polypedilum (P.) illinoense*	206	+
84480	*Polypedilum (P.) laetum group*		+
84540	*Polypedilum (Tripodura) scalaenum group*	29	
85261	*Cladotanytarsus vanderwulpi group Type 1*	88	+
85500	*Paratanytarsus sp*	411	+
85625	*Rheotanytarsus sp*	88	
85720	*Stempellinella fimbriata*	29	+
85800	*Tanytarsus sp*	382	+
85821	*Tanytarsus glabrescens group sp 7*	294	+
87540	*Hemerodromia sp*	18	+
94400	*Fossaria sp*		+
95100	*Physella sp*	34	+
96002	*Helisoma anceps anceps*		+
96900	*Ferrissia sp*	36	+
98600	*Sphaerium sp*		+

No. Quantitative Taxa: 43 Total Taxa: 84

No. Qualitative Taxa: 75 ICI: **42**

Number of Organisms: 3514 Qual EPT: 13

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Bokengehalas Creek

Collection Date: 09/17/2008 River Code: 14-076 RM: 7.90 C Twp. Rd. 31

Taxa Code	Taxa	Quant/Qual
02960	*Paragordius sp*	+
03600	*Oligochaeta*	18 +
04615	*Actinobdella inequiannulata*	+
08250	*Orconectes (Procericambarus) rusticus*	+
08601	*Hydrachnidia*	+
11120	*Baetis flavistriga*	7 +
11130	*Baetis intercalaris*	95 +
11430	*Diphetor hageni*	4
12200	*Isonychia sp*	1
13400	*Stenacron sp*	18
13590	*Maccaffertium vicarium*	6
14950	*Leptophlebia sp or Paraleptophlebia sp*	16
17200	*Caenis sp*	+
18501	*Ephemeridae*	4 +
21200	*Calopteryx sp*	29 +
22001	*Coenagrionidae*	+
42700	*Belostoma sp*	+
45300	*Sigara sp*	+
45400	*Trichocorixa sp*	+
50804	*Lype diversa*	+
52200	*Cheumatopsyche sp*	109 +
52430	*Ceratopsyche morosa group*	252 +
57400	*Neophylax sp*	+
58505	*Helicopsyche borealis*	+
59410	*Nectopsyche diarina*	+
68201	*Scirtidae*	+
68601	*Ancyronyx variegata*	1
68707	*Dubiraphia quadrinotata*	+
68708	*Dubiraphia vittata group*	+
68901	*Macronychus glabratus*	7 +
69400	*Stenelmis sp*	6 +
70600	*Antocha sp*	13
72700	*Anopheles sp*	+
74100	*Simulium sp*	8 +
74501	*Ceratopogonidae*	+
77120	*Ablabesmyia mallochi*	+
77500	*Conchapelopia sp*	+
77800	*Helopelopia sp*	81 +
78350	*Meropelopia sp*	+
78655	*Procladius (Holotanypus) sp*	+
80351	*Corynoneura n.sp 1*	32
81650	*Parametriocnemus sp*	+
81825	*Rheocricotopus (Psilocricotopus) robacki*	352 +
82101	*Thienemanniella taurocapita*	152
82730	*Chironomus (C.) decorus group*	+
82820	*Cryptochironomus sp*	+
83820	*Microtendipes "caelum" (sensu Simpson & Bode, 1980)*	+
84300	*Phaenopsectra obediens group*	+
84470	*Polypedilum (P.) illinoense*	+
85261	*Cladotanytarsus vanderwulpi group Type 1*	27 +
85500	*Paratanytarsus sp*	1082 +
85615	*Rheotanytarsus pellucidus*	162
85625	*Rheotanytarsus sp*	433
85720	*Stempellinella fimbriata*	8 +
85752	*Sublettea coffmani*	298
85800	*Tanytarsus sp*	216 +
85821	*Tanytarsus glabrescens group sp 7*	108 +
87540	*Hemerodromia sp*	82
95100	*Physella sp*	1 +
96900	*Ferrissia sp*	50 +
98200	*Pisidium sp*	+
98600	*Sphaerium sp*	+

No. Quantitative Taxa: 32 Total Taxa: 62

No. Qualitative Taxa: 49 ICI: **48**

Number of Organisms: 3678 Qual EPT: 10

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Bokengehalas Creek

Collection Date: 08/27/2008 River Code: 14-076 RM: 4.61

Taxa Code	Taxa	Quant/Qual	
01801	*Turbellaria*		+
03360	*Plumatella sp*		+
05900	*Lirceus sp*		+
08200	*Orconectes sp*		+
08601	*Hydrachnidia*		+
11120	*Baetis flavistriga*	86	+
11130	*Baetis intercalaris*	22	+
12200	*Isonychia sp*	16	
13000	*Leucrocuta sp*	1	
13100	*Nixe sp*		+
13400	*Stenacron sp*	24	+
13521	*Stenonema femoratum*	1	
13561	*Maccaffertium pulchellum*	1	+
17200	*Caenis sp*		+
21200	*Calopteryx sp*	5	+
22300	*Argia sp*		+
23909	*Boyeria vinosa*		+
50804	*Lype diversa*		+
51400	*Nyctiophylax sp*		+
52200	*Cheumatopsyche sp*	72	+
52430	*Ceratopsyche morosa group*	170	+
52500	*Hydropsyche sp*		+
57400	*Neophylax sp*		+
59700	*Triaenodes sp*		+
68075	*Psephenus herricki*		+
68601	*Ancyronyx variegata*	1	+
68702	*Dubiraphia bivittata*		+
68708	*Dubiraphia vittata group*		+
68901	*Macronychus glabratus*	52	+
69400	*Stenelmis sp*	20	+
70600	*Antocha sp*		+
74501	*Ceratopogonidae*		+
77500	*Conchapelopia sp*	163	+
77800	*Helopelopia sp*	54	
78450	*Nilotanypus fimbriatus*	108	
78655	*Procladius (Holotanypus) sp*		+
80370	*Corynoneura lobata*	144	
81690	*Paratrichocladius sp*	54	
81825	*Rheocricotopus (Psilocricotopus) robacki*	488	+
82130	*Thienemanniella similis*		+
82220	*Tvetenia discoloripes group*		+
82730	*Chironomus (C.) decorus group*		+
82820	*Cryptochironomus sp*		+
82885	*Cryptotendipes pseudotener*		+
83300	*Glyptotendipes (G.) sp*		+
83820	*Microtendipes "caelum" (sensu Simpson & Bode, 1980)*	54	+
83840	*Microtendipes pedellus group*	325	+
84210	*Paratendipes albimanus or P. duplicatus*	54	
84300	*Phaenopsectra obediens group*	54	+
84450	*Polypedilum (Uresipedilum) flavum*	325	+
84460	*Polypedilum (P.) fallax group*	271	
84470	*Polypedilum (P.) illinoense*		+
84750	*Stictochironomus sp*		+
85261	*Cladotanytarsus vanderwulpi group Type 1*		+
85500	*Paratanytarsus sp*	217	+
85625	*Rheotanytarsus sp*	3037	+
85800	*Tanytarsus sp*	54	+
85821	*Tanytarsus glabrescens group sp 7*	163	+
86100	*Chrysops sp*		+
87501	*Empididae*	16	
96900	*Ferrissia sp*	35	+
98600	*Sphaerium sp*		+

No. Quantitative Taxa: 31 Total Taxa: 62

No. Qualitative Taxa: 52 ICI: **42**

Number of Organisms: 6087 Qual EPT: 13

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Bokengehalas Creek
Miami St.

Collection Date: 09/03/2008 River Code: 14-076 RM: 1.13

Taxa Code	Taxa	Quant/Qual	
03040	*Fredericella sp*		+
03600	*Oligochaeta*	8	
05900	*Lirceus sp*		+
06700	*Crangonyx sp*		+
08250	*Orconectes (Procericambarus) rusticus*		+
11120	*Baetis flavistriga*	36	+
11130	*Baetis intercalaris*	110	+
12200	*Isonychia sp*	4	
13000	*Leucrocuta sp*		+
13100	*Nixe sp*		+
13400	*Stenacron sp*	139	+
13561	*Maccaffertium pulchellum*	21	+
13570	*Maccaffertium terminatum*		+
16700	*Tricorythodes sp*	1	
17200	*Caenis sp*		+
18600	*Ephemera sp*		+
18700	*Hexagenia sp*		+
21200	*Calopteryx sp*	5	+
22001	*Coenagrionidae*	1	
22300	*Argia sp*		+
23909	*Boyeria vinosa*		+
24501	*Gomphidae*		+
45300	*Sigara sp*		+
45900	*Notonecta sp*		+
47600	*Sialis sp*		+
50315	*Chimarra obscura*	11	+
50804	*Lype diversa*	8	
50906	*Psychomyia flavida*	1	+
52200	*Cheumatopsyche sp*	173	+
52430	*Ceratopsyche morosa group*	322	+
52530	*Hydropsyche depravata group*	49	+
57400	*Neophylax sp*		+
57900	*Pycnopsyche sp*		+
67750	*Sperchopsis tesselatus*		+
68025	*Ectopria sp*		+
68075	*Psephenus herricki*		+
68130	*Helichus sp*		+
68601	*Ancyronyx variegata*	3	+
68708	*Dubiraphia vittata group*		+
68901	*Macronychus glabratus*	21	+
69400	*Stenelmis sp*	31	+
70600	*Antocha sp*	2	
71100	*Hexatoma sp*		+
74100	*Simulium sp*		+
77120	*Ablabesmyia mallochi*		+
77500	*Conchapelopia sp*	47	+
77800	*Helopelopia sp*	24	
78450	*Nilotanypus fimbriatus*	118	
78655	*Procladius (Holotanypus) sp*		+
80351	*Corynoneura n.sp 1*	56	
80360	*Corynoneura "celeripes" (sensu Simpson & Bode, 1980)*	16	
80370	*Corynoneura lobata*	104	
80420	*Cricotopus (C.) bicinctus*		+
81270	*Nanocladius (N.) spiniplenus*	24	
81825	*Rheocricotopus (Psilocricotopus) robacki*	259	+
82200	*Tvetenia bavarica group*	94	
82820	*Cryptochironomus sp*		+
83840	*Microtendipes pedellus group*		+
84210	*Paratendipes albimanus or P. duplicatus*		+
84450	*Polypedilum (Uresipedilum) flavum*	24	
84460	*Polypedilum (P.) fallax group*	94	
84470	*Polypedilum (P.) illinoense*		+
85500	*Paratanytarsus sp*	47	+
85625	*Rheotanytarsus sp*	1176	+
85821	*Tanytarsus glabrescens group sp 7*	24	+
86100	*Chrysops sp*		+
87540	*Hemerodromia sp*	26	
94400	*Fossaria sp*		+
96900	*Ferrissia sp*	57	

No. Quantitative Taxa: 35 Total Taxa: 69
No. Qualitative Taxa: 52 ICI: **48**
Number of Organisms: 3136 Qual EPT: 17

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Bluejacket Creek
dst. Twp. Rd. 216

Collection Date: 08/10/2009 River Code: 14-077 RM: 6.31

Taxa Code	Taxa	Quant/Qual
01801	*Turbellaria*	7 +
03600	*Oligochaeta*	41 +
04664	*Helobdella stagnalis*	+
05900	*Lirceus sp*	2
06700	*Crangonyx sp*	25 +
08250	*Orconectes (Procericambarus) rusticus*	1 +
08601	*Hydrachnidia*	17 +
11120	*Baetis flavistriga*	2 +
11130	*Baetis intercalaris*	+
13400	*Stenacron sp*	+
14950	*Leptophlebia sp or Paraleptophlebia sp*	8
21200	*Calopteryx sp*	2 +
22001	*Coenagrionidae*	+
45300	*Sigara sp*	+
47600	*Sialis sp*	+
50804	*Lype diversa*	+
52200	*Cheumatopsyche sp*	+
52430	*Ceratopsyche morosa group*	38 +
52530	*Hydropsyche depravata group*	+
59310	*Mystacides sepulchralis*	+
63300	*Hydroporini*	+
65700	*Anacaena sp*	+
68707	*Dubiraphia quadrinotata*	+
69225	*Optioservus fastiditus*	+
69400	*Stenelmis sp*	+
70600	*Antocha sp*	+
72340	*Dixella sp*	+
74100	*Simulium sp*	+
77120	*Ablabesmyia mallochi*	+
77500	*Conchapelopia sp*	95 +
77750	*Hayesomyia senata or Thienemannimyia norena*	+
77800	*Helopelopia sp*	223 +
78450	*Nilotanypus fimbriatus*	11
79720	*Diamesa sp*	+
80370	*Corynoneura lobata*	56
80430	*Cricotopus (C.) tremulus group*	17
81650	*Parametriocnemus sp*	67 +
81825	*Rheocricotopus (Psilocricotopus) robacki*	17 +
82141	*Thienemanniella xena*	8
82200	*Tvetenia bavarica group*	17 +
83840	*Microtendipes pedellus group*	67
84210	*Paratendipes albimanus or P. duplicatus*	34 +
84300	*Phaenopsectra obediens group*	67 +
84430	*Polypedilum (P.) albicorne*	335
84440	*Polypedilum (Uresipedilum) aviceps*	34 +
84450	*Polypedilum (Uresipedilum) flavum*	335 +
84460	*Polypedilum (P.) fallax group*	34
84750	*Stictochironomus sp*	+
85261	*Cladotanytarsus vanderwulpi group Type 1*	17
85500	*Paratanytarsus sp*	17 +
85501	*Paratanytarsus longistilus*	67
85615	*Rheotanytarsus pellucidus*	17
85625	*Rheotanytarsus sp*	34
85800	*Tanytarsus sp*	117 +
85802	*Tanytarsus curticornis*	17
85821	*Tanytarsus glabrescens group sp 7*	50
85840	*Tanytarsus sepp*	17
87510	*Neoplasta sp*	8
87540	*Hemerodromia sp*	16
95100	*Physella sp*	158 +
96002	*Helisoma anceps anceps*	1
98200	*Pisidium sp*	1

No. Quantitative Taxa: 40 Total Taxa: 62
No. Qualitative Taxa: 42 ICI: **36**
Number of Organisms: 2097 Qual EPT: 8

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Bluejacket Creek
upst. Co. Rd. 11 (upstream crossing)

Collection Date: 08/10/2009 River Code: 14-077 RM: 5.50

Taxa Code	Taxa	Quant/Qual
01801	*Turbellaria*	234 +
03040	*Fredericella sp*	+
03360	*Plumatella sp*	1 +
03600	*Oligochaeta*	32 +
06700	*Crangonyx sp*	+
08200	*Orconectes sp*	+
08601	*Hydrachnidia*	8
11130	*Baetis intercalaris*	116 +
21200	*Calopteryx sp*	+
22300	*Argia sp*	+
23909	*Boyeria vinosa*	1
52200	*Cheumatopsyche sp*	5 +
52430	*Ceratopsyche morosa group*	968 +
52530	*Hydropsyche depravata group*	15
53800	*Hydroptila sp*	1 +
59400	*Nectopsyche sp*	+
68708	*Dubiraphia vittata group*	2
69225	*Optioservus fastiditus*	2 +
69400	*Stenelmis sp*	10 +
71300	*Limonia sp*	+
71900	*Tipula sp*	+
74100	*Simulium sp*	26 +
74501	*Ceratopogonidae*	+
77500	*Conchapelopia sp*	142 +
77800	*Helopelopia sp*	121 +
78450	*Nilotanypus fimbriatus*	6
80370	*Corynoneura lobata*	66
80410	*Cricotopus (C.) sp*	14 +
80420	*Cricotopus (C.) bicinctus*	14 +
80430	*Cricotopus (C.) tremulus group*	97 +
80440	*Cricotopus (C.) trifascia*	+
80740	*Eukiefferiella claripennis group*	14 +
81270	*Nanocladius (N.) spiniplenus*	28
81825	*Rheocricotopus (Psilocricotopus) robacki*	28
82121	*Thienemanniella lobapodema*	6
82141	*Thienemanniella xena*	439 +
82730	*Chironomus (C.) decorus group*	+
82820	*Cryptochironomus sp*	+
83003	*Dicrotendipes fumidus*	14 +
84450	*Polypedilum (Uresipedilum) flavum*	194 +
84750	*Stictochironomus sp*	+
85500	*Paratanytarsus sp*	41 +
85625	*Rheotanytarsus sp*	263 +
85800	*Tanytarsus sp*	+
85821	*Tanytarsus glabrescens group sp 7*	28 +
87540	*Hemerodromia sp*	10
95100	*Physella sp*	+
96900	*Ferrissia sp*	2
98001	*Sphaeriidae*	9

No. Quantitative Taxa: 34 Total Taxa: 49
No. Qualitative Taxa: 37 ICI: **36**
Number of Organisms: 2957 Qual EPT: 5

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Bluejacket Creek
Twp. Rd. 31

Collection Date: 08/10/2009 River Code: 14-077 RM: 0.72

Taxa Code	Taxa	Quant	Qual
01801	*Turbellaria*	14	+
03360	*Plumatella sp*	1	+
03600	*Oligochaeta*	56	+
04935	*Erpobdella punctata punctata*	1	
04964	*Mooreobdella microstoma*		+
06700	*Crangonyx sp*	8	+
08250	*Orconectes (Procericambarus) rusticus*	1	+
11120	*Baetis flavistriga*	16	+
11130	*Baetis intercalaris*		+
11155	*Iswaeon anoka*		+
13400	*Stenacron sp*	4	+
17200	*Caenis sp*	8	+
21200	*Calopteryx sp*	12	
22001	*Coenagrionidae*		+
22300	*Argia sp*	8	
43570	*Neoplea sp*		+
45900	*Notonecta sp*		+
47600	*Sialis sp*	1	
51600	*Polycentropus sp*	1	
52200	*Cheumatopsyche sp*	15	+
52430	*Ceratopsyche morosa group*	1	+
52530	*Hydropsyche depravata group*		+
53800	*Hydroptila sp*	1	+
57400	*Neophylax sp*		+
59410	*Nectopsyche diarina*		+
59555	*Oecetis inconspicua complex sp F (sensu Floyd, 1995)*	1	
60900	*Peltodytes sp*		+
63900	*Laccophilus sp*		+
65800	*Berosus sp*		+
68075	*Psephenus herricki*		+
68707	*Dubiraphia quadrinotata*		+
68708	*Dubiraphia vittata group*	24	+
68901	*Macronychus glabratus*	3	
69225	*Optioservus fastiditus*		+
69400	*Stenelmis sp*	14	+
71900	*Tipula sp*	1	+
74501	*Ceratopogonidae*	24	+
77120	*Ablabesmyia mallochi*		+
77500	*Conchapelopia sp*	28	+
77800	*Helopelopia sp*	252	+
78655	*Procladius (Holotanypus) sp*		+
80370	*Corynoneura lobata*	8	
80420	*Cricotopus (C.) bicinctus*		+
80430	*Cricotopus (C.) tremulus group*	10	
80440	*Cricotopus (C.) trifascia*		+
81231	*Nanocladius (N.) crassicornus or N. (N.) "rectinervis"*	10	
81632	*Parakiefferiella n.sp 2*	10	
82141	*Thienemanniella xena*	45	
82220	*Tvetenia discoloripes group*		+
82730	*Chironomus (C.) decorus group*		+
83003	*Dicrotendipes fumidus*	10	
83040	*Dicrotendipes neomodestus*	40	
83820	*Microtendipes "caelum" (sensu Simpson & Bode, 1980)*	10	+
83840	*Microtendipes pedellus group*	100	
84155	*Paralauterborniella nigrohalteralis*	10	
84210	*Paratendipes albimanus or P. duplicatus*	80	
84300	*Phaenopsectra obediens group*	80	+
84450	*Polypedilum (Uresipedilum) flavum*	40	+
84460	*Polypedilum (P.) fallax group*	60	
84480	*Polypedilum (P.) laetum group*		+
84540	*Polypedilum (Tripodura) scalaenum group*		+
84750	*Stictochironomus sp*		+
84960	*Pseudochironomus sp*		+
85500	*Paratanytarsus sp*	100	
85501	*Paratanytarsus longistilus*	20	
85625	*Rheotanytarsus sp*	30	
85720	*Stempellinella fimbriata*	4	
85800	*Tanytarsus sp*	30	
85802	*Tanytarsus curticornis*	20	
85821	*Tanytarsus glabrescens group sp 7*	170	
85840	*Tanytarsus sepp*	40	+
86100	*Chrysops sp*		+
95100	*Physella sp*	21	+
98600	*Sphaerium sp*		+

No. Quantitative Taxa: 47 Total Taxa: 74
No. Qualitative Taxa: 49 ICI: **40**
Number of Organisms: 1443 Qual EPT: 11

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Bluejacket Creek
dst. Twp. Rd. 216

Collection Date: 07/15/2008 River Code: 14-077 RM: 6.31

Taxa Code	Taxa	Quant/Qual
03600	*Oligochaeta*	+
05900	*Lirceus sp*	+
06700	*Crangonyx sp*	+
08601	*Hydrachnidia*	+
11113	*Baetis brunneicolor*	+
11120	*Baetis flavistriga*	+
21200	*Calopteryx sp*	+
23909	*Boyeria vinosa*	+
33100	*Leuctra sp*	+
52430	*Ceratopsyche morosa group*	+
52440	*Ceratopsyche slossonae*	+
63300	*Hydroporini*	+
68707	*Dubiraphia quadrinotata*	+
68708	*Dubiraphia vittata group*	+
69400	*Stenelmis sp*	+
74100	*Simulium sp*	+
77500	*Conchapelopia sp*	+
78450	*Nilotanypus fimbriatus*	+
80420	*Cricotopus (C.) bicinctus*	+
80740	*Eukiefferiella claripennis group*	+
80750	*Eukiefferiella devonica group*	+
81650	*Parametriocnemus sp*	+
81690	*Paratrichocladius sp*	+
82141	*Thienemanniella xena*	+
82200	*Tvetenia bavarica group*	+
83040	*Dicrotendipes neomodestus*	+
84300	*Phaenopsectra obediens group*	+
84440	*Polypedilum (Uresipedilum) aviceps*	+
84475	*Polypedilum (P.) ophioides*	+
84750	*Stictochironomus sp*	+
85500	*Paratanytarsus sp*	+
85615	*Rheotanytarsus pellucidus*	+
85800	*Tanytarsus sp*	+
87510	*Neoplasta sp*	+
87540	*Hemerodromia sp*	+

Taxa Code	Taxa	Quant/Qual

No. Quantitative Taxa: 0 Total Taxa: 35
No. Qualitative Taxa: 35 ICI:
Number of Organisms: 0 Qual EPT: 5

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Bluejacket Creek
upst. Co. Rd. 11 (upstream crossing)

Collection Date: 07/15/2008 River Code: 14-077 RM: 5.50

Taxa Code	Taxa	Quant/Qual
01801	*Turbellaria*	+
03600	*Oligochaeta*	+
06700	*Crangonyx sp*	+
11120	*Baetis flavistriga*	+
11130	*Baetis intercalaris*	+
11200	*Callibaetis sp*	+
22001	*Coenagrionidae*	+
22300	*Argia sp*	+
45300	*Sigara sp*	+
52200	*Cheumatopsyche sp*	+
52430	*Ceratopsyche morosa group*	+
52530	*Hydropsyche depravata group*	+
60900	*Peltodytes sp*	+
65800	*Berosus sp*	+
67800	*Tropisternus sp*	+
72700	*Anopheles sp*	+
74100	*Simulium sp*	+
77120	*Ablabesmyia mallochi*	+
77500	*Conchapelopia sp*	+
77800	*Helopelopia sp*	+
78140	*Labrundinia pilosella*	+
78350	*Meropelopia sp*	+
79400	*Zavrelimyia sp*	+
80420	*Cricotopus (C.) bicinctus*	+
80430	*Cricotopus (C.) tremulus group*	+
80440	*Cricotopus (C.) trifascia*	+
80510	*Cricotopus (Isocladius) sylvestris group*	+
80740	*Eukiefferiella claripennis group*	+
81700	*Psectrocladius sp*	+
81825	*Rheocricotopus (Psilocricotopus) robacki*	+
82141	*Thienemanniella xena*	+
82200	*Tvetenia bavarica group*	+
82730	*Chironomus (C.) decorus group*	+
82820	*Cryptochironomus sp*	+
83003	*Dicrotendipes fumidus*	+
84210	*Paratendipes albimanus or P. duplicatus*	+
84300	*Phaenopsectra obediens group*	+
84430	*Polypedilum (P.) albicorne*	+
84440	*Polypedilum (Uresipedilum) aviceps*	+
84450	*Polypedilum (Uresipedilum) flavum*	+
84470	*Polypedilum (P.) illinoense*	+
84750	*Stictochironomus sp*	+
95100	*Physella sp*	+

Taxa Code	Taxa	Quant/Qual

No. Quantitative Taxa: 0
No. Qualitative Taxa: 43
Number of Organisms: 0

Total Taxa: 43
ICI:
Qual EPT: 6

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Bluejacket Creek
Twp. Rd. 31

Collection Date: 07/15/2008 River Code: 14-077 RM: 0.72

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
03360	*Plumatella sp*	+			
03600	*Oligochaeta*	+			
06201	*Hyalella azteca*	+			
06700	*Crangonyx sp*	+			
08250	*Orconectes (Procericambarus) rusticus*	+			
11120	*Baetis flavistriga*	+			
11130	*Baetis intercalaris*	+			
11155	*Iswaeon anoka*	+			
13400	*Stenacron sp*	+			
22001	*Coenagrionidae*	+			
22300	*Argia sp*	+			
23909	*Boyeria vinosa*	+			
52430	*Ceratopsyche morosa group*	+			
52530	*Hydropsyche depravata group*	+			
59410	*Nectopsyche diarina*	+			
68075	*Psephenus herricki*	+			
68707	*Dubiraphia quadrinotata*	+			
68708	*Dubiraphia vittata group*	+			
69225	*Optioservus fastiditus*	+			
69400	*Stenelmis sp*	+			
71100	*Hexatoma sp*	+			
74100	*Simulium sp*	+			
77120	*Ablabesmyia mallochi*	+			
77500	*Conchapelopia sp*	+			
80420	*Cricotopus (C.) bicinctus*	+			
80440	*Cricotopus (C.) trifascia*	+			
82141	*Thienemanniella xena*	+			
82200	*Tvetenia bavarica group*	+			
82220	*Tvetenia discoloripes group*	+			
84440	*Polypedilum (Uresipedilum) aviceps*	+			
84450	*Polypedilum (Uresipedilum) flavum*	+			
84470	*Polypedilum (P.) illinoense*	+			
85625	*Rheotanytarsus sp*	+			
95100	*Physella sp*	+			
96900	*Ferrissia sp*	+			

No. Quantitative Taxa: 0 Total Taxa: 35
No. Qualitative Taxa: 35 ICI:
Number of Organisms: 0 Qual EPT: 7

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Rum Creek

Collection Date: 08/05/2008 River Code: 14-078 RM: 8.63

Taxa Code	Taxa	Quant/Qual
01801	*Turbellaria*	+
08601	*Hydrachnidia*	+
11200	*Callibaetis sp*	+
13400	*Stenacron sp*	+
13521	*Stenonema femoratum*	+
17200	*Caenis sp*	+
22001	*Coenagrionidae*	+
65800	*Berosus sp*	+
67000	*Helophorus sp*	+
68702	*Dubiraphia bivittata*	+
68708	*Dubiraphia vittata group*	+
69400	*Stenelmis sp*	+
72700	*Anopheles sp*	+
74501	*Ceratopogonidae*	+
74673	*Atrichopogon websteri*	+
77120	*Ablabesmyia mallochi*	+
77500	*Conchapelopia sp*	+
80510	*Cricotopus (Isocladius) sylvestris group*	+
82730	*Chironomus (C.) decorus group*	+
82885	*Cryptotendipes pseudotener*	+
83040	*Dicrotendipes neomodestus*	+
84210	*Paratendipes albimanus or P. duplicatus*	+
84315	*Phaenopsectra flavipes*	+
84450	*Polypedilum (Uresipedilum) flavum*	+
84470	*Polypedilum (P.) illinoense*	+
84750	*Stictochironomus sp*	+
85500	*Paratanytarsus sp*	+
85800	*Tanytarsus sp*	+

Taxa Code	Taxa	Quant/Qual

No. Quantitative Taxa: 0 Total Taxa: 28

No. Qualitative Taxa: 28 ICI:

Number of Organisms: 0 Qual EPT: 4

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Rum Creek
Meranda Rd.

Collection Date: 08/06/2008 River Code: 14-078 RM: 6.58

Taxa Code	Taxa	Quant/Qual
01801	*Turbellaria*	+
03600	*Oligochaeta*	+
04685	*Placobdella ornata*	+
04901	*Erpobdellidae*	+
08250	*Orconectes (Procericambarus) rusticus*	+
08601	*Hydrachnidia*	+
11120	*Baetis flavistriga*	+
11130	*Baetis intercalaris*	+
11200	*Callibaetis sp*	+
13400	*Stenacron sp*	+
13521	*Stenonema femoratum*	+
17200	*Caenis sp*	+
21200	*Calopteryx sp*	+
22001	*Coenagrionidae*	+
45100	*Palmacorixa sp*	+
45300	*Sigara sp*	+
45900	*Notonecta sp*	+
52200	*Cheumatopsyche sp*	+
52430	*Ceratopsyche morosa group*	+
58505	*Helicopsyche borealis*	+
60900	*Peltodytes sp*	+
65800	*Berosus sp*	+
68075	*Psephenus herricki*	+
68702	*Dubiraphia bivittata*	+
69400	*Stenelmis sp*	+
74100	*Simulium sp*	+
77120	*Ablabesmyia mallochi*	+
77500	*Conchapelopia sp*	+
77750	*Hayesomyia senata or Thienemannimyia norena*	+
78655	*Procladius (Holotanypus) sp*	+
82820	*Cryptochironomus sp*	+
83820	*Microtendipes "caelum" (sensu Simpson & Bode, 1980)*	+
83840	*Microtendipes pedellus group*	+
84450	*Polypedilum (Uresipedilum) flavum*	+
84470	*Polypedilum (P.) illinoense*	+
84750	*Stictochironomus sp*	+
85625	*Rheotanytarsus sp*	+
85821	*Tanytarsus glabrescens group sp 7*	+
93900	*Elimia sp*	+
95100	*Physella sp*	+
96900	*Ferrissia sp*	+

Taxa Code	Taxa	Quant/Qual

No. Quantitative Taxa: 0
No. Qualitative Taxa: 41
Number of Organisms: 0

Total Taxa: 41
ICI:
Qual EPT: 9

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Rum Creek
Co. Rd. 58

Collection Date: 09/03/2008 River Code: 14-078 RM: 0.79

Taxa Code	Taxa	Quant/Qual
01320	*Hydra sp*	2
01801	*Turbellaria*	2
04686	*Placobdella papillifera*	+
05900	*Lirceus sp*	+
06700	*Crangonyx sp*	+
08250	*Orconectes (Procericambarus) rusticus*	+
11020	*Acerpenna pygmaea*	25 +
11120	*Baetis flavistriga*	22
11130	*Baetis intercalaris*	154 +
11650	*Procloeon sp (w/ hindwing pads)*	1 +
11651	*Procloeon sp (w/o hindwing pads)*	10 +
13000	*Leucrocuta sp*	60 +
13400	*Stenacron sp*	113 +
13521	*Stenonema femoratum*	40 +
13561	*Maccaffertium pulchellum*	40
14950	*Leptophlebia sp or Paraleptophlebia sp*	+
17200	*Caenis sp*	+
22001	*Coenagrionidae*	+
22300	*Argia sp*	47 +
23909	*Boyeria vinosa*	+
47600	*Sialis sp*	+
52200	*Cheumatopsyche sp*	36 +
52430	*Ceratopsyche morosa group*	+
57400	*Neophylax sp*	+
57900	*Pycnopsyche sp*	+
59970	*Petrophila sp*	+
65700	*Anacaena sp*	+
68075	*Psephenus herricki*	4 +
68601	*Ancyronyx variegata*	+
68700	*Dubiraphia sp*	+
68901	*Macronychus glabratus*	1 +
69400	*Stenelmis sp*	+
71100	*Hexatoma sp*	+
72700	*Anopheles sp*	+
74100	*Simulium sp*	+
77120	*Ablabesmyia mallochi*	+
77500	*Conchapelopia sp*	5 +
77800	*Helopelopia sp*	+
78450	*Nilotanypus fimbriatus*	25
78655	*Procladius (Holotanypus) sp*	+
80360	*Corynoneura "celeripes" (sensu Simpson & Bode, 1980)*	2
80370	*Corynoneura lobata*	29
81231	*Nanocladius (N.) crassicornus or N. (N.) "rectinervis"*	2
82141	*Thienemanniella xena*	2
83040	*Dicrotendipes neomodestus*	2 +
83840	*Microtendipes pedellus group*	45 +
84210	*Paratendipes albimanus or P. duplicatus*	5 +
84450	*Polypedilum (Uresipedilum) flavum*	18 +
84475	*Polypedilum (P.) ophioides*	+
84540	*Polypedilum (Tripodura) scalaenum group*	+
84750	*Stictochironomus sp*	+
85230	*Cladotanytarsus mancus group*	+
85500	*Paratanytarsus sp*	5
85615	*Rheotanytarsus pellucidus*	2
85625	*Rheotanytarsus sp*	13
85800	*Tanytarsus sp*	5 +
85821	*Tanytarsus glabrescens group sp 7*	9
85840	*Tanytarsus sepp*	4
93900	*Elimia sp*	5 +
96900	*Ferrissia sp*	3
98200	*Pisidium sp*	+
98600	*Sphaerium sp*	+

No. Quantitative Taxa: 33 Total Taxa: 62
No. Qualitative Taxa: 47 ICI: **46**
Number of Organisms: 738 Qual EPT: 13

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Brandywine Creek

Collection Date: 07/17/2008 River Code: 14-083 RM: 0.58

Taxa Code	Taxa	Quant/Qual
01801	*Turbellaria*	+
03360	*Plumatella sp*	+
03600	*Oligochaeta*	+
06201	*Hyalella azteca*	+
07701	*Cambaridae*	+
08601	*Hydrachnidia*	+
17200	*Caenis sp*	+
22001	*Coenagrionidae*	+
28955	*Plathemis lydia*	+
44501	*Corixidae*	+
47600	*Sialis sp*	+
52200	*Cheumatopsyche sp*	+
52430	*Ceratopsyche morosa group*	+
53800	*Hydroptila sp*	+
60400	*Gyrinus sp*	+
60900	*Peltodytes sp*	+
65800	*Berosus sp*	+
68702	*Dubiraphia bivittata*	+
68708	*Dubiraphia vittata group*	+
69400	*Stenelmis sp*	+
72700	*Anopheles sp*	+
77120	*Ablabesmyia mallochi*	+
77355	*Clinotanypus pinguis*	+
77500	*Conchapelopia sp*	+
77800	*Helopelopia sp*	+
78655	*Procladius (Holotanypus) sp*	+
80430	*Cricotopus (C.) tremulus group*	+
80510	*Cricotopus (Isocladius) sylvestris group*	+
82730	*Chironomus (C.) decorus group*	+
82820	*Cryptochironomus sp*	+
83003	*Dicrotendipes fumidus*	+
83040	*Dicrotendipes neomodestus*	+
83820	*Microtendipes "caelum" (sensu Simpson & Bode, 1980)*	+
83840	*Microtendipes pedellus group*	+
84300	*Phaenopsectra obediens group*	+
84450	*Polypedilum (Uresipedilum) flavum*	+
84460	*Polypedilum (P.) fallax group*	+
84470	*Polypedilum (P.) illinoense*	+
84750	*Stictochironomus sp*	+
85230	*Cladotanytarsus mancus group*	+
85500	*Paratanytarsus sp*	+
85800	*Tanytarsus sp*	+
95100	*Physella sp*	+
96002	*Helisoma anceps anceps*	+
97601	*Corbicula fluminea*	+
98600	*Sphaerium sp*	+

No. Quantitative Taxa: 0 Total Taxa: 46

No. Qualitative Taxa: 46 ICI:

Number of Organisms: 0 Qual EPT: 4

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Cherokee Mans Run
St. Rt. 117

Collection Date: 07/16/2008 River Code: 14-084 RM: 7.56

Taxa Code	Taxa	Quant/Qual
01801	*Turbellaria*	+
03600	*Oligochaeta*	+
05800	*Caecidotea sp*	+
08250	*Orconectes (Procericambarus) rusticus*	+
08601	*Hydrachnidia*	+
11120	*Baetis flavistriga*	+
11130	*Baetis intercalaris*	+
13400	*Stenacron sp*	+
13521	*Stenonema femoratum*	+
13590	*Maccaffertium vicarium*	+
52200	*Cheumatopsyche sp*	+
52430	*Ceratopsyche morosa group*	+
52440	*Ceratopsyche slossonae*	+
52530	*Hydropsyche depravata group*	+
57400	*Neophylax sp*	+
68707	*Dubiraphia quadrinotata*	+
68708	*Dubiraphia vittata group*	+
69200	*Optioservus sp*	+
69400	*Stenelmis sp*	+
70600	*Antocha sp*	+
71100	*Hexatoma sp*	+
74100	*Simulium sp*	+
77500	*Conchapelopia sp*	+
77800	*Helopelopia sp*	+
79720	*Diamesa sp*	+
80420	*Cricotopus (C.) bicinctus*	+
81650	*Parametriocnemus sp*	+
82730	*Chironomus (C.) decorus group*	+
82820	*Cryptochironomus sp*	+
84210	*Paratendipes albimanus or P. duplicatus*	+
84440	*Polypedilum (Uresipedilum) aviceps*	+
84450	*Polypedilum (Uresipedilum) flavum*	+
84750	*Stictochironomus sp*	+
85500	*Paratanytarsus sp*	+
85625	*Rheotanytarsus sp*	+
95100	*Physella sp*	+
96900	*Ferrissia sp*	+
98600	*Sphaerium sp*	+

Taxa Code	Taxa	Quant/Qual

No. Quantitative Taxa: 0 Total Taxa: 38
No. Qualitative Taxa: 38 ICI:
Number of Organisms: 0 Qual EPT: 10

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Cherokee Mans Run
U.S. Rt. 33

Collection Date: 08/27/2008 River Code: 14-084 RM: 3.38

Taxa Code	Taxa	Quant/Qual
01801	*Turbellaria*	21
03360	*Plumatella sp*	1
03600	*Oligochaeta*	188 +
04615	*Actinobdella inequiannulata*	+
06201	*Hyalella azteca*	+
08250	*Orconectes (Procericambarus) rusticus*	+
08601	*Hydrachnidia*	1 +
11120	*Baetis flavistriga*	119 +
11130	*Baetis intercalaris*	23 +
12200	*Isonychia sp*	+
13000	*Leucrocuta sp*	1
13400	*Stenacron sp*	60 +
13521	*Stenonema femoratum*	4 +
13561	*Maccaffertium pulchellum*	4 +
17200	*Caenis sp*	26 +
21200	*Calopteryx sp*	21 +
22300	*Argia sp*	1
23909	*Boyeria vinosa*	+
43570	*Neoplea sp*	+
45300	*Sigara sp*	+
50804	*Lype diversa*	1 +
52200	*Cheumatopsyche sp*	13 +
52430	*Ceratopsyche morosa group*	11 +
52450	*Ceratopsyche sparna*	+
52530	*Hydropsyche depravata group*	+
53800	*Hydroptila sp*	11 +
57900	*Pycnopsyche sp*	+
58505	*Helicopsyche borealis*	+
60400	*Gyrinus sp*	+
60900	*Peltodytes sp*	+
68130	*Helichus sp*	+
68601	*Ancyronyx variegata*	+
68708	*Dubiraphia vittata group*	+
68901	*Macronychus glabratus*	12 +
69225	*Optioservus fastiditus*	+
69400	*Stenelmis sp*	16 +
70600	*Antocha sp*	65 +
72340	*Dixella sp*	+
72700	*Anopheles sp*	+
74100	*Simulium sp*	+
77120	*Ablabesmyia mallochi*	+
77500	*Conchapelopia sp*	32 +
77800	*Helopelopia sp*	154 +
78450	*Nilotanypus fimbriatus*	54

Taxa Code	Taxa	Quant/Qual
80204	*Brillia flavifrons group*	19
80370	*Corynoneura lobata*	98
80410	*Cricotopus (C.) sp*	37
80430	*Cricotopus (C.) tremulus group*	148
81632	*Parakiefferiella n.sp 2*	19
82820	*Cryptochironomus sp*	+
82885	*Cryptotendipes pseudotener*	+
83003	*Dicrotendipes fumidus*	19
83040	*Dicrotendipes neomodestus*	19 +
83300	*Glyptotendipes (G.) sp*	37
83820	*Microtendipes "caelum" (sensu Simpson & Bode, 1980)*	+
83840	*Microtendipes pedellus group*	74
84100	*Paracladopelma sp*	+
84210	*Paratendipes albimanus or P. duplicatus*	56
84300	*Phaenopsectra obediens group*	19 +
84315	*Phaenopsectra flavipes*	+
84450	*Polypedilum (Uresipedilum) flavum*	93 +
84460	*Polypedilum (P.) fallax group*	185
84540	*Polypedilum (Tripodura) scalaenum group*	+
84750	*Stictochironomus sp*	+
85500	*Paratanytarsus sp*	167 +
85615	*Rheotanytarsus pellucidus*	37
85625	*Rheotanytarsus sp*	222 +
85800	*Tanytarsus sp*	111
85821	*Tanytarsus glabrescens group sp 7*	111
85840	*Tanytarsus sepp*	111
86100	*Chrysops sp*	+
87540	*Hemerodromia sp*	9
95100	*Physella sp*	8 +
96900	*Ferrissia sp*	161 +

No. Quantitative Taxa: 45 Total Taxa: 74
No. Qualitative Taxa: 54 ICI: **44**
Number of Organisms: 2599 Qual EPT: 15

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Trib. to Great Miami R. (RM 157.34)

Collection Date: 09/17/2008 River Code: 14-092 RM: 0.07

Taxa Code	Taxa	Quant/Qual
03360	*Plumatella sp*	+
03600	*Oligochaeta*	+
04661	*Helobdella elongata*	+
04686	*Placobdella papillifera*	+
06201	*Hyalella azteca*	+
08250	*Orconectes (Procericambarus) rusticus*	+
11200	*Callibaetis sp*	+
13400	*Stenacron sp*	+
13521	*Stenonema femoratum*	+
22001	*Coenagrionidae*	+
22300	*Argia sp*	+
45400	*Trichocorixa sp*	+
52200	*Cheumatopsyche sp*	+
60900	*Peltodytes sp*	+
65800	*Berosus sp*	+
67800	*Tropisternus sp*	+
68130	*Helichus sp*	+
68708	*Dubiraphia vittata group*	+
69400	*Stenelmis sp*	+
72700	*Anopheles sp*	+
78655	*Procladius (Holotanypus) sp*	+
79020	*Tanypus neopunctipennis*	+
82730	*Chironomus (C.) decorus group*	+
82820	*Cryptochironomus sp*	+
82885	*Cryptotendipes pseudotener*	+
83300	*Glyptotendipes (G.) sp*	+
85800	*Tanytarsus sp*	+
87400	*Stratiomys sp*	+
95100	*Physella sp*	+
96930	*Laevapex fuscus*	+
97601	*Corbicula fluminea*	+
98600	*Sphaerium sp*	+

Taxa Code	Taxa	Quant/Qual

No. Quantitative Taxa: 0 Total Taxa: 32

No. Qualitative Taxa: 32 ICI:

Number of Organisms: 0 Qual EPT: 4

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Rennick Creek
St. Rt. 235

Collection Date: 07/17/2008 River Code: 14-199 RM: 0.34

Taxa Code	Taxa	Quant/Qual
03360	*Plumatella sp*	+
03600	*Oligochaeta*	+
05900	*Lirceus sp*	+
06201	*Hyalella azteca*	+
06700	*Crangonyx sp*	+
08250	*Orconectes (Procericambarus) rusticus*	+
08601	*Hydrachnidia*	+
11125	*Pseudocloeon frondale*	+
17200	*Caenis sp*	+
21200	*Calopteryx sp*	+
22001	*Coenagrionidae*	+
22300	*Argia sp*	+
23600	*Aeshna sp*	+
23909	*Boyeria vinosa*	+
45300	*Sigara sp*	+
47600	*Sialis sp*	+
52200	*Cheumatopsyche sp*	+
57900	*Pycnopsyche sp*	+
59410	*Nectopsyche diarina*	+
60900	*Peltodytes sp*	+
68702	*Dubiraphia bivittata*	+
68707	*Dubiraphia quadrinotata*	+
68708	*Dubiraphia vittata group*	+
68901	*Macronychus glabratus*	+
72340	*Dixella sp*	+
74100	*Simulium sp*	+
77120	*Ablabesmyia mallochi*	+
77500	*Conchapelopia sp*	+
82730	*Chironomus (C.) decorus group*	+
82885	*Cryptotendipes pseudotener*	+
84100	*Paracladopelma sp*	+
84155	*Paralauterborniella nigrohalteralis*	+
84210	*Paratendipes albimanus or P. duplicatus*	+
84300	*Phaenopsectra obediens group*	+
84315	*Phaenopsectra flavipes*	+
84470	*Polypedilum (P.) illinoense*	+
84750	*Stictochironomus sp*	+
85260	*Cladotanytarsus vanderwulpi group*	+
85500	*Paratanytarsus sp*	+
85800	*Tanytarsus sp*	+
95100	*Physella sp*	+
96900	*Ferrissia sp*	+

Taxa Code	Taxa	Quant/Qual

No. Quantitative Taxa: 0 Total Taxa: 42
No. Qualitative Taxa: 42 ICI:
Number of Organisms: 0 Qual EPT: 5

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Loramie Creek
Botkins Rd.

Collection Date: 08/05/2008 River Code: 14-600 RM: 36.84

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	*Turbellaria*	+			
03360	*Plumatella sp*	+			
03600	*Oligochaeta*	+			
04685	*Placobdella ornata*	+			
04935	*Erpobdella punctata punctata*	+			
04964	*Mooreobdella microstoma*	+			
05900	*Lirceus sp*	+			
07875	*Cambarus (Tubericambarus) polychromatus*	+			
08601	*Hydrachnidia*	+			
11120	*Baetis flavistriga*	+			
11130	*Baetis intercalaris*	+			
13400	*Stenacron sp*	+			
13521	*Stenonema femoratum*	+			
21200	*Calopteryx sp*	+			
22001	*Coenagrionidae*	+			
45100	*Palmacorixa sp*	+			
45300	*Sigara sp*	+			
52200	*Cheumatopsyche sp*	+			
52530	*Hydropsyche depravata group*	+			
68702	*Dubiraphia bivittata*	+			
74100	*Simulium sp*	+			
77120	*Ablabesmyia mallochi*	+			
77500	*Conchapelopia sp*	+			
78655	*Procladius (Holotanypus) sp*	+			
82730	*Chironomus (C.) decorus group*	+			
82820	*Cryptochironomus sp*	+			
83051	*Dicrotendipes simpsoni*	+			
84210	*Paratendipes albimanus or P. duplicatus*	+			
84450	*Polypedilum (Uresipedilum) flavum*	+			
85500	*Paratanytarsus sp*	+			
85625	*Rheotanytarsus sp*	+			
86100	*Chrysops sp*	+			
95100	*Physella sp*	+			
96264	*Planorbella (Pierosoma) pilsbryi*	+			
98600	*Sphaerium sp*	+			

No. Quantitative Taxa: 0 Total Taxa: 35
No. Qualitative Taxa: 35 ICI:
Number of Organisms: 0 Qual EPT: 6

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Loramie Creek
Lock Two Rd., dst. Botkins WWTP

Collection Date: 08/05/2008 River Code: 14-600 RM: 34.96

Taxa Code	Taxa	Quant/Qual
01801	*Turbellaria*	+
03600	*Oligochaeta*	+
05900	*Lirceus sp*	+
17200	*Caenis sp*	+
22001	*Coenagrionidae*	+
28001	*Libellulidae*	+
45400	*Trichocorixa sp*	+
60900	*Peltodytes sp*	+
65800	*Berosus sp*	+
74100	*Simulium sp*	+
74501	*Ceratopogonidae*	+
77500	*Conchapelopia sp*	+
77750	*Hayesomyia senata or Thienemannimyia norena*	+
77800	*Helopelopia sp*	+
78655	*Procladius (Holotanypus) sp*	+
80420	*Cricotopus (C.) bicinctus*	+
80430	*Cricotopus (C.) tremulus group*	+
82730	*Chironomus (C.) decorus group*	+
82820	*Cryptochironomus sp*	+
82885	*Cryptotendipes pseudotener*	+
83040	*Dicrotendipes neomodestus*	+
83051	*Dicrotendipes simpsoni*	+
84300	*Phaenopsectra obediens group*	+
84315	*Phaenopsectra flavipes*	+
84450	*Polypedilum (Uresipedilum) flavum*	+
84460	*Polypedilum (P.) fallax group*	+
84470	*Polypedilum (P.) illinoense*	+
84540	*Polypedilum (Tripodura) scalaenum group*	+
84750	*Stictochironomus sp*	+
85230	*Cladotanytarsus mancus group*	+
85500	*Paratanytarsus sp*	+
85800	*Tanytarsus sp*	+
85821	*Tanytarsus glabrescens group sp 7*	+
96120	*Menetus (Micromenetus) dilatatus*	+
98600	*Sphaerium sp*	+

Taxa Code	Taxa	Quant/Qual

No. Quantitative Taxa: 0 Total Taxa: 35
No. Qualitative Taxa: 35 ICI:
Number of Organisms: 0 Qual EPT: 1

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Loramie Creek

Collection Date: 09/04/2008 River Code: 14-600 RM: 30.42 Hardin-Wapakoneta Rd.

Taxa Code	Taxa	Quant/Qual	
01320	*Hydra sp*	8	
01801	*Turbellaria*	14	+
03360	*Plumatella sp*	4	
03600	*Oligochaeta*	8	+
04664	*Helobdella stagnalis*	1	+
04935	*Erpobdella punctata punctata*		+
05900	*Lirceus sp*		+
06201	*Hyalella azteca*		+
13400	*Stenacron sp*		+
13521	*Stenonema femoratum*	1	+
17200	*Caenis sp*	56	+
21200	*Calopteryx sp*	9	+
22001	*Coenagrionidae*		+
22300	*Argia sp*	77	+
23909	*Boyeria vinosa*	2	+
45100	*Palmacorixa sp*		+
45300	*Sigara sp*		+
45900	*Notonecta sp*		+
47600	*Sialis sp*		+
52200	*Cheumatopsyche sp*	120	
65800	*Berosus sp*	22	+
68708	*Dubiraphia vittata group*	1	+
68901	*Macronychus glabratus*	2	
69400	*Stenelmis sp*	8	
77120	*Ablabesmyia mallochi*	138	+
77500	*Conchapelopia sp*	35	
77750	*Hayesomyia senata or Thienemannimyia norena*	138	+
78450	*Nilotanypus fimbriatus*	23	
78655	*Procladius (Holotanypus) sp*		+
80370	*Corynoneura lobata*	8	
81632	*Parakiefferiella n.sp 2*		+
82121	*Thienemanniella lobapodema*	31	
82141	*Thienemanniella xena*	8	
82730	*Chironomus (C.) decorus group*	35	+
82885	*Cryptotendipes pseudotener*		+
83040	*Dicrotendipes neomodestus*	1623	+
83051	*Dicrotendipes simpsoni*	35	
83300	*Glyptotendipes (G.) sp*	104	
83840	*Microtendipes pedellus group*	104	
84210	*Paratendipes albimanus or P. duplicatus*	104	+
84300	*Phaenopsectra obediens group*	35	
84315	*Phaenopsectra flavipes*		+
84450	*Polypedilum (Uresipedilum) flavum*	35	
84470	*Polypedilum (P.) illinoense*	35	+
84540	*Polypedilum (Tripodura) scalaenum group*		+
84750	*Stictochironomus sp*		+
84800	*Tribelos jucundum*		+
85500	*Paratanytarsus sp*	518	
85625	*Rheotanytarsus sp*	242	
85800	*Tanytarsus sp*	138	+
85821	*Tanytarsus glabrescens group sp 7*	484	
85840	*Tanytarsus sepp*	207	
86100	*Chrysops sp*		+
92615	*Cipangopaludina japonica*	1	
96900	*Ferrissia sp*	36	
98600	*Sphaerium sp*		+
99100	*Pyganodon grandis*		+

No. Quantitative Taxa: 38 Total Taxa: 57

No. Qualitative Taxa: 36 ICI: **32**

Number of Organisms: 4450 Qual EPT: 3

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Loramie Creek

Collection Date: 09/04/2008 River Code: 14-600 RM: 22.10

Taxa Code	Taxa	Quant/Qual
00653	*Eunapius fragilis*	+
01801	*Turbellaria*	+
03451	*Urnatella gracilis*	+
03600	*Oligochaeta*	+
04666	*Helobdella triserialis*	+
06201	*Hyalella azteca*	+
08601	*Hydrachnidia*	+
11200	*Callibaetis sp*	+
17200	*Caenis sp*	+
22001	*Coenagrionidae*	+
27500	*Somatochlora sp*	+
45400	*Trichocorixa sp*	+
49200	*Climacia sp*	+
53501	*Hydroptilidae*	+
65800	*Berosus sp*	+
68708	*Dubiraphia vittata group*	+
78655	*Procladius (Holotanypus) sp*	+
82730	*Chironomus (C.) decorus group*	+
82800	*Cladopelma sp*	+
82820	*Cryptochironomus sp*	+
83051	*Dicrotendipes simpsoni*	+
83300	*Glyptotendipes (G.) sp*	+
84000	*Parachironomus sp*	+
84470	*Polypedilum (P.) illinoense*	+
85800	*Tanytarsus sp*	+
85840	*Tanytarsus sepp*	+
96930	*Laevapex fuscus*	+
98600	*Sphaerium sp*	+
99100	*Pyganodon grandis*	+

Taxa Code	Taxa	Quant/Qual

No. Quantitative Taxa: 0 Total Taxa: 29

No. Qualitative Taxa: 29 ICI:

Number of Organisms: 0 Qual EPT: 3

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Loramie Creek
St. Rt. 66

Collection Date: 09/17/2008 River Code: 14-600 RM: 20.70

Taxa Code	Taxa	Quant/Qual
01320	*Hydra sp*	96
01801	*Turbellaria*	2501 +
02600	*Nematomorpha*	+
03360	*Plumatella sp*	+
04664	*Helobdella stagnalis*	+
04964	*Mooreobdella microstoma*	+
06201	*Hyalella azteca*	+
08250	*Orconectes (Procericambarus) rusticus*	+
11200	*Callibaetis sp*	+
16700	*Tricorythodes sp*	419 +
17200	*Caenis sp*	1 +
21300	*Hetaerina sp*	+
22001	*Coenagrionidae*	8 +
22300	*Argia sp*	2 +
44300	*Pelocoris sp*	+
44501	*Corixidae*	+
47600	*Sialis sp*	+
52200	*Cheumatopsyche sp*	1638 +
52530	*Hydropsyche depravata group*	2 +
53501	*Hydroptilidae*	9
59970	*Petrophila sp*	4
65800	*Berosus sp*	11 +
67800	*Tropisternus sp*	+
68708	*Dubiraphia vittata group*	+
69400	*Stenelmis sp*	+
74100	*Simulium sp*	+
77120	*Ablabesmyia mallochi*	+
77750	*Hayesomyia senata or Thienemannimyia norena*	585 +
78655	*Procladius (Holotanypus) sp*	+
80420	*Cricotopus (C.) bicinctus*	418 +
80430	*Cricotopus (C.) tremulus group*	84
80510	*Cricotopus (Isocladius) sylvestris group*	+
81231	*Nanocladius (N.) crassicornus or N. (N.) "rectinervis"*	84
82121	*Thienemanniella lobapodema*	32
82130	*Thienemanniella similis*	96 +
82141	*Thienemanniella xena*	32
82730	*Chironomus (C.) decorus group*	+
82820	*Cryptochironomus sp*	+
83040	*Dicrotendipes neomodestus*	669 +
84450	*Polypedilum (Uresipedilum) flavum*	1505 +
84470	*Polypedilum (P.) illinoense*	+
84750	*Stictochironomus sp*	+
84960	*Pseudochironomus sp*	+
85230	*Cladotanytarsus mancus group*	+
85500	*Paratanytarsus sp*	84
85625	*Rheotanytarsus sp*	5016 +
85800	*Tanytarsus sp*	+
85821	*Tanytarsus glabrescens group sp 7*	585 +
85840	*Tanytarsus sepp*	167
97601	*Corbicula fluminea*	104 +
99100	*Pyganodon grandis*	+

No. Quantitative Taxa: 25 Total Taxa: 51
No. Qualitative Taxa: 42 ICI: **34**
Number of Organisms: 14152 Qual EPT: 5

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Loramie Creek

Collection Date: 09/03/2008 River Code: 14-600 RM: 19.30

Taxa Code	Taxa	Quant/Qual
01801	*Turbellaria*	+
06201	*Hyalella azteca*	+
08451	*Palaemonetes kadiakensis*	+
11200	*Callibaetis sp*	+
11670	*Procloeon viridoculare*	+
17200	*Caenis sp*	+
22001	*Coenagrionidae*	+
22300	*Argia sp*	+
26700	*Macromia sp*	+
27307	*Epitheca (Epicordulia) princeps*	+
28001	*Libellulidae*	+
43300	*Ranatra sp*	+
45400	*Trichocorixa sp*	+
47600	*Sialis sp*	+
51206	*Cyrnellus fraternus*	+
59400	*Nectopsyche sp*	+
60900	*Peltodytes sp*	+
65800	*Berosus sp*	+
68708	*Dubiraphia vittata group*	+
71900	*Tipula sp*	+
72700	*Anopheles sp*	+
78655	*Procladius (Holotanypus) sp*	+
82730	*Chironomus (C.) decorus group*	+
82820	*Cryptochironomus sp*	+
83040	*Dicrotendipes neomodestus*	+
83300	*Glyptotendipes (G.) sp*	+
84470	*Polypedilum (P.) illinoense*	+
84520	*Polypedilum (Tripodura) halterale group*	+
84540	*Polypedilum (Tripodura) scalaenum group*	+
84960	*Pseudochironomus sp*	+
85230	*Cladotanytarsus mancus group*	+
85800	*Tanytarsus sp*	+
85821	*Tanytarsus glabrescens group sp 7*	+
95100	*Physella sp*	+
96930	*Laevapex fuscus*	+
97601	*Corbicula fluminea*	+

Taxa Code	Taxa	Quant/Qual

No. Quantitative Taxa: 0 Total Taxa: 36

No. Qualitative Taxa: 36 ICI:

Number of Organisms: 0 Qual EPT: 5

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Loramie Creek
Schlater Rd.

Collection Date: 09/03/2008 River Code: 14-600 RM: 18.82

Taxa Code	Taxa	Quant/Qual	
01320	*Hydra sp*	421	
01801	*Turbellaria*	231	+
03600	*Oligochaeta*	205	+
04964	*Mooreobdella microstoma*		+
06201	*Hyalella azteca*		+
11200	*Callibaetis sp*	1	+
11670	*Procloeon viridoculare*	17	+
16700	*Tricorythodes sp*	8	
17200	*Caenis sp*	451	+
18700	*Hexagenia sp*	1	
22001	*Coenagrionidae*	46	
22300	*Argia sp*	100	+
44501	*Corixidae*		+
47600	*Sialis sp*		+
51206	*Cyrnellus fraternus*	1	+
53800	*Hydroptila sp*	2	
54200	*Orthotrichia sp*	2	
63900	*Laccophilus sp*		+
65800	*Berosus sp*	37	+
68708	*Dubiraphia vittata group*	30	+
69400	*Stenelmis sp*		+
77750	*Hayesomyia senata or Thienemannimyia norena*		+
78655	*Procladius (Holotanypus) sp*	48	+
82730	*Chironomus (C.) decorus group*	96	+
83040	*Dicrotendipes neomodestus*	2360	+
83051	*Dicrotendipes simpsoni*	626	
83300	*Glyptotendipes (G.) sp*	289	
84470	*Polypedilum (P.) illinoense*		+
84540	*Polypedilum (Tripodura) scalaenum group*	144	+
84700	*Stenochironomus sp*	48	
84960	*Pseudochironomus sp*	96	+
85230	*Cladotanytarsus mancus group*	193	+
85800	*Tanytarsus sp*	482	
85821	*Tanytarsus glabrescens group sp 7*	387	
85840	*Tanytarsus sepp*	144	+
95100	*Physella sp*	122	+
96900	*Ferrissia sp*	1	
96930	*Laevapex fuscus*	1	+
97601	*Corbicula fluminea*	8	+
98600	*Sphaerium sp*		+

Taxa Code	Taxa	Quant/Qual

No. Quantitative Taxa: 31 Total Taxa: 40
No. Qualitative Taxa: 28 ICI: **20**
Number of Organisms: 6598 Qual EPT: 4

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Loramie Creek
St. Rt. 66

Collection Date: 09/03/2008 River Code: 14-600 RM: 14.80

Taxa Code	Taxa	Quant/Qual
01320	*Hydra sp*	64
01801	*Turbellaria*	1728 +
03360	*Plumatella sp*	+
03600	*Oligochaeta*	624 +
04964	*Mooreobdella microstoma*	+
06700	*Crangonyx sp*	8
08250	*Orconectes (Procericambarus) rusticus*	+
11130	*Baetis intercalaris*	+
11200	*Callibaetis sp*	+
16700	*Tricorythodes sp*	8 +
17200	*Caenis sp*	+
22001	*Coenagrionidae*	2 +
22300	*Argia sp*	30 +
27307	*Epitheca (Epicordulia) princeps*	+
44300	*Pelocoris sp*	+
51206	*Cyrnellus fraternus*	352
52200	*Cheumatopsyche sp*	19 +
52430	*Ceratopsyche morosa group*	+
52510	*Hydropsyche aerata*	8
52530	*Hydropsyche depravata group*	+
53800	*Hydroptila sp*	+
59570	*Oecetis nocturna*	+
59970	*Petrophila sp*	1 +
60300	*Dineutus sp*	1
65800	*Berosus sp*	+
67000	*Helophorus sp*	+
67800	*Tropisternus sp*	+
68708	*Dubiraphia vittata group*	8 +
69400	*Stenelmis sp*	3 +
74100	*Simulium sp*	+
77120	*Ablabesmyia mallochi*	+
77750	*Hayesomyia senata or Thienemannimyia norena*	247 +
78655	*Procladius (Holotanypus) sp*	+
80410	*Cricotopus (C.) sp*	+
80420	*Cricotopus (C.) bicinctus*	+
80430	*Cricotopus (C.) tremulus group*	+
81240	*Nanocladius (N.) distinctus*	165 +
82141	*Thienemanniella xena*	+
82730	*Chironomus (C.) decorus group*	82 +
82800	*Cladopelma sp*	+
82820	*Cryptochironomus sp*	+
83040	*Dicrotendipes neomodestus*	5441 +
83051	*Dicrotendipes simpsoni*	990 +
83300	*Glyptotendipes (G.) sp*	1402 +
83310	*Glyptotendipes (Heynotendipes) amplus*	+
84000	*Parachironomus sp*	+
84450	*Polypedilum (Uresipedilum) flavum*	+
84470	*Polypedilum (P.) illinoense*	+
84540	*Polypedilum (Tripodura) scalaenum group*	495 +
84960	*Pseudochironomus sp*	+
85230	*Cladotanytarsus mancus group*	+
85625	*Rheotanytarsus sp*	+
85800	*Tanytarsus sp*	247 +
85821	*Tanytarsus glabrescens group sp 7*	82
85840	*Tanytarsus sepp*	+
95100	*Physella sp*	+
96930	*Laevapex fuscus*	+
97601	*Corbicula fluminea*	+
98600	*Sphaerium sp*	+
99100	*Pyganodon grandis*	+

No. Quantitative Taxa: 23 Total Taxa: 60
No. Qualitative Taxa: 54 ICI: **16**
Number of Organisms: 12007 Qual EPT: 9

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Loramie Creek
Collection Date: 09/02/2008 River Code: 14-600 RM: 7.50 Loramie-Washington Rd.

Taxa Code	Taxa	Quant/Qual
01200	*Cordylophora lacustris*	+
01801	*Turbellaria*	4 +
03360	*Plumatella sp*	1 +
03451	*Urnatella gracilis*	+
03600	*Oligochaeta*	24 +
08250	*Orconectes (Procericambarus) rusticus*	+
08601	*Hydrachnidia*	+
11130	*Baetis intercalaris*	+
11670	*Procloeon viridoculare*	+
13400	*Stenacron sp*	300 +
13510	*Maccaffertium exiguum*	1
13521	*Stenonema femoratum*	3 +
13561	*Maccaffertium pulchellum*	+
16700	*Tricorythodes sp*	354 +
17200	*Caenis sp*	124 +
18100	*Anthopotamus sp*	+
18600	*Ephemera sp*	1
22300	*Argia sp*	4
45400	*Trichocorixa sp*	+
50315	*Chimarra obscura*	+
51206	*Cyrnellus fraternus*	237
52200	*Cheumatopsyche sp*	2 +
52430	*Ceratopsyche morosa group*	+
53800	*Hydroptila sp*	11 +
57400	*Neophylax sp*	+
58505	*Helicopsyche borealis*	+
59100	*Ceraclea sp*	8 +
59970	*Petrophila sp*	+
60900	*Peltodytes sp*	+
65800	*Berosus sp*	+
69400	*Stenelmis sp*	1 +
77120	*Ablabesmyia mallochi*	102 +
77750	*Hayesomyia senata or Thienemannimyia norena*	136 +
78100	*Labrundinia sp*	34
78450	*Nilotanypus fimbriatus*	+
78655	*Procladius (Holotanypus) sp*	34 +
79085	*Telopelopia okoboji*	34
80410	*Cricotopus (C.) sp*	34
81231	*Nanocladius (N.) crassicornus or N. (N.) "rectinervis"*	205
82121	*Thienemanniella lobapodema*	16
82730	*Chironomus (C.) decorus group*	+
82820	*Cryptochironomus sp*	+
83040	*Dicrotendipes neomodestus*	1535 +
83051	*Dicrotendipes simpsoni*	205
83300	*Glyptotendipes (G.) sp*	205 +
83820	*Microtendipes "caelum" (sensu Simpson & Bode, 1980)*	+
83840	*Microtendipes pedellus group*	102 +
84300	*Phaenopsectra obediens group*	34
84450	*Polypedilum (Uresipedilum) flavum*	68 +
84540	*Polypedilum (Tripodura) scalaenum group*	171 +
85230	*Cladotanytarsus mancus group*	+
85625	*Rheotanytarsus sp*	205 +
85800	*Tanytarsus sp*	307 +
85821	*Tanytarsus glabrescens group sp 7*	853
95100	*Physella sp*	+
96900	*Ferrissia sp*	17 +
98600	*Sphaerium sp*	+
99100	*Pyganodon grandis*	+
99860	*Lampsilis radiata luteola*	+

No. Quantitative Taxa: 34 Total Taxa: 59
No. Qualitative Taxa: 47 ICI: **34**
Number of Organisms: 5372 Qual EPT: 15

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Loramie Creek

Collection Date: 09/02/2008 River Code: 14-600 RM: 1.87 Fessler-Buxton Rd.

Taxa Code	Taxa	Quant/Qual
00401	*Spongillidae*	+
01200	*Cordylophora lacustris*	+
01320	*Hydra sp*	32
01801	*Turbellaria*	71
03360	*Plumatella sp*	12 +
03451	*Urnatella gracilis*	+
03600	*Oligochaeta*	32 +
05900	*Lirceus sp*	1 +
06201	*Hyalella azteca*	+
06700	*Crangonyx sp*	+
08250	*Orconectes (Procericambarus) rusticus*	+
11120	*Baetis flavistriga*	+
11130	*Baetis intercalaris*	4 +
11650	*Procloeon sp (w/ hindwing pads)*	14
12200	*Isonychia sp*	+
13000	*Leucrocuta sp*	94
13400	*Stenacron sp*	985 +
13510	*Maccaffertium exiguum*	4
13521	*Stenonema femoratum*	+
13550	*Maccaffertium mexicanum integrum*	4
13561	*Maccaffertium pulchellum*	202 +
16700	*Tricorythodes sp*	356 +
17200	*Caenis sp*	66 +
18600	*Ephemera sp*	+
21300	*Hetaerina sp*	19
22001	*Coenagrionidae*	+
22300	*Argia sp*	34 +
45100	*Palmacorixa sp*	+
47600	*Sialis sp*	+
50315	*Chimarra obscura*	+
51600	*Polycentropus sp*	1 +
52200	*Cheumatopsyche sp*	137 +
52430	*Ceratopsyche morosa group*	9 +
52530	*Hydropsyche depravata group*	1 +
53800	*Hydroptila sp*	181
58505	*Helicopsyche borealis*	1
59160	*Ceraclea spongillovorax*	1
59970	*Petrophila sp*	16 +
60400	*Gyrinus sp*	+
60900	*Peltodytes sp*	+
61100	*Acilius sp*	+
68708	*Dubiraphia vittata group*	1 +
68901	*Macronychus glabratus*	+
69400	*Stenelmis sp*	21 +
74100	*Simulium sp*	+
74501	*Ceratopogonidae*	+
77120	*Ablabesmyia mallochi*	34 +
77500	*Conchapelopia sp*	34 +
77750	*Hayesomyia senata or Thienemannimyia norena*	437
78140	*Labrundinia pilosella*	33
78450	*Nilotanypus fimbriatus*	101
78655	*Procladius (Holotanypus) sp*	+
80310	*Cardiocladius obscurus*	+
80410	*Cricotopus (C.) sp*	34
80420	*Cricotopus (C.) bicinctus*	34
80430	*Cricotopus (C.) tremulus group*	168
81231	*Nanocladius (N.) crassicornus or N. (N.) "rectinervis"*	33
82101	*Thienemanniella taurocapita*	16
82730	*Chironomus (C.) decorus group*	+
82820	*Cryptochironomus sp*	34 +
83040	*Dicrotendipes neomodestus*	706 +
83051	*Dicrotendipes simpsoni*	+
83300	*Glyptotendipes (G.) sp*	471 +
83840	*Microtendipes pedellus group*	740 +
84040	*Parachironomus frequens*	101
84210	*Paratendipes albimanus or P. duplicatus*	+
84300	*Phaenopsectra obediens group*	67
84450	*Polypedilum (Uresipedilum) flavum*	235 +
84460	*Polypedilum (P.) fallax group*	33
84490	*Polypedilum (Cerobregma) ontario*	+
84540	*Polypedilum (Tripodura) scalaenum group*	34 +
84750	*Stictochironomus sp*	+
84888	*Xenochironomus xenolabis*	+
85625	*Rheotanytarsus sp*	807 +
85821	*Tanytarsus glabrescens group sp 7*	168
86100	*Chrysops sp*	+
87540	*Hemerodromia sp*	17
93900	*Elimia sp*	2 +
95100	*Physella sp*	17
96900	*Ferrissia sp*	35
97601	*Corbicula fluminea*	+
98600	*Sphaerium sp*	+
99100	*Pyganodon grandis*	+
99120	*Utterbackia imbecillis*	+
99400	*Quadrula quadrula*	+
99860	*Lampsilis radiata luteola*	+

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Loramie Creek
Fessler-Buxton Rd.

Collection Date: 09/02/2008 River Code: 14-600 RM: 1.87

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual

No. Quantitative Taxa:	51	Total Taxa:	86
No. Qualitative Taxa:	61	ICI:	**42**
Number of Organisms:	6690	Qual EPT:	14

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Turtle Creek

Collection Date: 08/06/2008 River Code: 14-603 RM: 8.42

Taxa Code	Taxa	Quant/Qual
01801	*Turbellaria*	+
03360	*Plumatella sp*	+
04685	*Placobdella ornata*	+
04935	*Erpobdella punctata punctata*	+
05900	*Lirceus sp*	+
06201	*Hyalella azteca*	+
13400	*Stenacron sp*	+
13521	*Stenonema femoratum*	+
17200	*Caenis sp*	+
22001	*Coenagrionidae*	+
27001	*Corduliidae*	+
52200	*Cheumatopsyche sp*	+
52530	*Hydropsyche depravata group*	+
60900	*Peltodytes sp*	+
65800	*Berosus sp*	+
67000	*Helophorus sp*	+
67700	*Paracymus sp*	+
67800	*Tropisternus sp*	+
68702	*Dubiraphia bivittata*	+
68708	*Dubiraphia vittata group*	+
69400	*Stenelmis sp*	+
71300	*Limonia sp*	+
71900	*Tipula sp*	+
72340	*Dixella sp*	+
72700	*Anopheles sp*	+
74501	*Ceratopogonidae*	+
77120	*Ablabesmyia mallochi*	+
77750	*Hayesomyia senata or Thienemannimyia norena*	+
78655	*Procladius (Holotanypus) sp*	+
80510	*Cricotopus (Isocladius) sylvestris group*	+
83003	*Dicrotendipes fumidus*	+
83040	*Dicrotendipes neomodestus*	+
84210	*Paratendipes albimanus or P. duplicatus*	+
84300	*Phaenopsectra obediens group*	+
84450	*Polypedilum (Uresipedilum) flavum*	+
84470	*Polypedilum (P.) illinoense*	+
84750	*Stictochironomus sp*	+
85230	*Cladotanytarsus mancus group*	+
85500	*Paratanytarsus sp*	+
85800	*Tanytarsus sp*	+
85840	*Tanytarsus sepp*	+
92615	*Cipangopaludina japonica*	+
95100	*Physella sp*	+
96264	*Planorbella (Pierosoma) pilsbryi*	+

Taxa Code	Taxa	Quant/Qual

No. Quantitative Taxa: 0 Total Taxa: 44

No. Qualitative Taxa: 44 ICI:

Number of Organisms: 0 Qual EPT: 5

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Turtle Creek

Collection Date: 08/06/2008 River Code: 14-603 RM: 5.66

Taxa Code	Taxa	Quant/Qual
03360	*Plumatella sp*	+
03600	*Oligochaeta*	+
04935	*Erpobdella punctata punctata*	+
05900	*Lirceus sp*	+
08250	*Orconectes (Procericambarus) rusticus*	+
11120	*Baetis flavistriga*	+
11130	*Baetis intercalaris*	+
11250	*Centroptilum sp (w/o hindwing pads)*	+
11651	*Procloeon sp (w/o hindwing pads)*	+
13400	*Stenacron sp*	+
13521	*Stenonema femoratum*	+
17200	*Caenis sp*	+
51600	*Polycentropus sp*	+
52200	*Cheumatopsyche sp*	+
60900	*Peltodytes sp*	+
68201	*Scirtidae*	+
68708	*Dubiraphia vittata group*	+
69400	*Stenelmis sp*	+
72700	*Anopheles sp*	+
77120	*Ablabesmyia mallochi*	+
77500	*Conchapelopia sp*	+
78655	*Procladius (Holotanypus) sp*	+
81650	*Parametriocnemus sp*	+
82141	*Thienemanniella xena*	+
82820	*Cryptochironomus sp*	+
83300	*Glyptotendipes (G.) sp*	+
83840	*Microtendipes pedellus group*	+
84210	*Paratendipes albimanus or P. duplicatus*	+
84450	*Polypedilum (Uresipedilum) flavum*	+
84470	*Polypedilum (P.) illinoense*	+
84750	*Stictochironomus sp*	+
85625	*Rheotanytarsus sp*	+
85800	*Tanytarsus sp*	+
85840	*Tanytarsus sepp*	+
95100	*Physella sp*	+
96900	*Ferrissia sp*	+

Taxa Code	Taxa	Quant/Qual

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: Turtle Creek
Stangel Rd.

Collection Date: 09/04/2008 River Code: 14-603 RM: 0.43

Taxa Code	Taxa	Quant/Qual
01320	*Hydra sp*	8
01801	*Turbellaria*	+
03040	*Fredericella sp*	+
03360	*Plumatella sp*	5 +
05800	*Caecidotea sp*	+
05900	*Lirceus sp*	+
08250	*Orconectes (Procericambarus) rusticus*	1 +
11020	*Acerpenna pygmaea*	+
11130	*Baetis intercalaris*	1 +
11250	*Centroptilum sp (w/o hindwing pads)*	+
11650	*Procloeon sp (w/ hindwing pads)*	+
11670	*Procloeon viridoculare*	+
12200	*Isonychia sp*	+
13000	*Leucrocuta sp*	9 +
13100	*Nixe sp*	+
13400	*Stenacron sp*	32 +
13521	*Stenonema femoratum*	182 +
13561	*Maccaffertium pulchellum*	2 +
17200	*Caenis sp*	2 +
18600	*Ephemera sp*	+
21200	*Calopteryx sp*	+
22001	*Coenagrionidae*	+
22300	*Argia sp*	14 +
23909	*Boyeria vinosa*	+
43300	*Ranatra sp*	+
47600	*Sialis sp*	+
50315	*Chimarra obscura*	+
51600	*Polycentropus sp*	+
52200	*Cheumatopsyche sp*	1 +
52430	*Ceratopsyche morosa group*	+
52530	*Hydropsyche depravata group*	+
60900	*Peltodytes sp*	+
68075	*Psephenus herricki*	+
68601	*Ancyronyx variegata*	+
68707	*Dubiraphia quadrinotata*	+
68708	*Dubiraphia vittata group*	1 +
68901	*Macronychus glabratus*	+
69400	*Stenelmis sp*	+
71900	*Tipula sp*	+
77115	*Ablabesmyia janta*	3
77120	*Ablabesmyia mallochi*	26 +
77750	*Hayesomyia senata or Thienemannimyia norena*	+
77800	*Helopelopia sp*	10 +
78140	*Labrundinia pilosella*	62 +
78450	*Nilotanypus fimbriatus*	16 +
78655	*Procladius (Holotanypus) sp*	+
80360	*Corynoneura "celeripes" (sensu Simpson & Bode, 1980)*	4
80370	*Corynoneura lobata*	249
82121	*Thienemanniella lobapodema*	1
82820	*Cryptochironomus sp*	+
83040	*Dicrotendipes neomodestus*	23
83300	*Glyptotendipes (G.) sp*	16
83840	*Microtendipes pedellus group*	49 +
84060	*Parachironomus pectinatellae*	3
84210	*Paratendipes albimanus or P. duplicatus*	43 +
84300	*Phaenopsectra obediens group*	3 +
84302	*Phaenopsectra punctipes*	10
84440	*Polypedilum (Uresipedilum) aviceps*	+
84450	*Polypedilum (Uresipedilum) flavum*	+
84460	*Polypedilum (P.) fallax group*	43 +
84470	*Polypedilum (P.) illinoense*	3
84480	*Polypedilum (P.) laetum group*	+
84490	*Polypedilum (Cerobregma) ontario*	+
84750	*Stictochironomus sp*	+
85500	*Paratanytarsus sp*	79
85625	*Rheotanytarsus sp*	16
85800	*Tanytarsus sp*	23 +
85821	*Tanytarsus glabrescens group sp 7*	26
87540	*Hemerodromia sp*	10
95100	*Physella sp*	+
96900	*Ferrissia sp*	10 +

No. Quantitative Taxa: 35 Total Taxa: 71
No. Qualitative Taxa: 57 ICI: **40**
Number of Organisms: 986 Qual EPT: 18

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Ninemile Creek

Collection Date: 09/03/2008 River Code: 14-606 RM: 6.38

Taxa Code	Taxa	Quant/Qual		Taxa Code	Taxa	Quant/Qual
03600	*Oligochaeta*	117				
04664	*Helobdella stagnalis*	5				
04686	*Placobdella papillifera*		+			
04935	*Erpobdella punctata punctata*	5	+			
04964	*Mooreobdella microstoma*		+			
05800	*Caecidotea sp*	4				
05900	*Lirceus sp*	8	+			
08220	*Orconectes (Gremicambarus) immunis*		+			
11120	*Baetis flavistriga*	1				
11200	*Callibaetis sp*	2	+			
13400	*Stenacron sp*	2				
13561	*Maccaffertium pulchellum*	1				
14950	*Leptophlebia sp or Paraleptophlebia sp*	1				
22001	*Coenagrionidae*		+			
23001	*Anisoptera*	2				
23704	*Anax junius*		+			
27500	*Somatochlora sp*		+			
28955	*Plathemis lydia*		+			
42700	*Belostoma sp*		+			
45300	*Sigara sp*		+			
52200	*Cheumatopsyche sp*	3				
60800	*Haliplus sp*	1	+			
60900	*Peltodytes sp*		+			
65800	*Berosus sp*		+			
67800	*Tropisternus sp*		+			
72340	*Dixella sp*		+			
74501	*Ceratopogonidae*	1				
77500	*Conchapelopia sp*	1				
78450	*Nilotanypus fimbriatus*	1				
80370	*Corynoneura lobata*	1				
82730	*Chironomus (C.) decorus group*	11				
83040	*Dicrotendipes neomodestus*	1				
83300	*Glyptotendipes (G.) sp*	1				
84210	*Paratendipes albimanus or P. duplicatus*	54				
85500	*Paratanytarsus sp*	33				
85821	*Tanytarsus glabrescens group sp 7*	2				
94400	*Fossaria sp*	1				
95100	*Physella sp*	14	+			
96264	*Planorbella (Pierosoma) pilsbryi*	1	+			
98600	*Sphaerium sp*	3	+			

No. Quantitative Taxa: 27 Total Taxa: 40

No. Qualitative Taxa: 20 ICI: **26**

Number of Organisms: 277 Qual EPT: 1

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Ninemile Creek
Range Line Rd.

Collection Date: 09/03/2008 River Code: 14-606 RM: 4.18

Taxa Code	Taxa	Quant/Qual
01801	*Turbellaria*	8 +
03600	*Oligochaeta*	16 +
04666	*Helobdella triserialis*	11 +
04901	*Erpobdellidae*	+
05900	*Lirceus sp*	28 +
06201	*Hyalella azteca*	+
08601	*Hydrachnidia*	2 +
11130	*Baetis intercalaris*	+
13400	*Stenacron sp*	+
13510	*Maccaffertium exiguum*	+
13521	*Stenonema femoratum*	5 +
17200	*Caenis sp*	4 +
21200	*Calopteryx sp*	5 +
22001	*Coenagrionidae*	+
22300	*Argia sp*	1
23600	*Aeshna sp*	+
23704	*Anax junius*	+
23909	*Boyeria vinosa*	+
45100	*Palmacorixa sp*	+
45300	*Sigara sp*	+
47600	*Sialis sp*	+
52530	*Hydropsyche depravata group*	+
58505	*Helicopsyche borealis*	+
59310	*Mystacides sepulchralis*	4 +
60900	*Peltodytes sp*	+
63300	*Hydroporini*	+
65800	*Berosus sp*	15
68707	*Dubiraphia quadrinotata*	+
68708	*Dubiraphia vittata group*	4 +
69400	*Stenelmis sp*	+
74501	*Ceratopogonidae*	+
77120	*Ablabesmyia mallochi*	7 +
77500	*Conchapelopia sp*	+
77750	*Hayesomyia senata or Thienemannimyia norena*	7 +
78655	*Procladius (Holotanypus) sp*	+
79400	*Zavrelimyia sp*	28
80350	*Corynoneura sp*	+
80370	*Corynoneura lobata*	4
80420	*Cricotopus (C.) bicinctus*	7
81650	*Parametriocnemus sp*	+
82141	*Thienemanniella xena*	2
83002	*Dicrotendipes modestus*	7
83040	*Dicrotendipes neomodestus*	62
83840	*Microtendipes pedellus group*	48 +
84210	*Paratendipes albimanus or P. duplicatus*	180 +
84300	*Phaenopsectra obediens group*	7
84315	*Phaenopsectra flavipes*	97 +
84460	*Polypedilum (P.) fallax group*	69
85500	*Paratanytarsus sp*	62 +
85625	*Rheotanytarsus sp*	14
85720	*Stempellinella fimbriata*	+
85800	*Tanytarsus sp*	34
85821	*Tanytarsus glabrescens group sp 7*	104 +
86100	*Chrysops sp*	+
87540	*Hemerodromia sp*	4
95100	*Physella sp*	12 +
96002	*Helisoma anceps anceps*	6 +
96900	*Ferrissia sp*	13 +
98600	*Sphaerium sp*	3 +

No. Quantitative Taxa: 34 Total Taxa: 59
No. Qualitative Taxa: 46 ICI: **28**
Number of Organisms: 880 Qual EPT: 8

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Ninemile Creek
Roeth Rd.

Collection Date: 09/02/2008 River Code: 14-606 RM: 0.23

Taxa Code	Taxa	Quant/Qual
00401	*Spongillidae*	+
01320	*Hydra sp*	46
01801	*Turbellaria*	13 +
03600	*Oligochaeta*	73 +
08250	*Orconectes (Procericambarus) rusticus*	+
11120	*Baetis flavistriga*	2 +
11130	*Baetis intercalaris*	6 +
11651	*Procloeon sp (w/o hindwing pads)*	1
13400	*Stenacron sp*	40 +
13521	*Stenonema femoratum*	29 +
17200	*Caenis sp*	45 +
21200	*Calopteryx sp*	5 +
22001	*Coenagrionidae*	2 +
22300	*Argia sp*	5
30000	*Plecoptera*	+
47600	*Sialis sp*	+
50315	*Chimarra obscura*	+
51600	*Polycentropus sp*	3 +
52200	*Cheumatopsyche sp*	5 +
52530	*Hydropsyche depravata group*	+
57400	*Neophylax sp*	+
68075	*Psephenus herricki*	+
68601	*Ancyronyx variegata*	+
68708	*Dubiraphia vittata group*	+
68901	*Macronychus glabratus*	5
69400	*Stenelmis sp*	9 +
71100	*Hexatoma sp*	+
72700	*Anopheles sp*	+
74100	*Simulium sp*	+
77120	*Ablabesmyia mallochi*	99 +
77500	*Conchapelopia sp*	49 +
77750	*Hayesomyia senata or Thienemannimyia norena*	16 +
77800	*Helopelopia sp*	16
78140	*Labrundinia pilosella*	16
78450	*Nilotanypus fimbriatus*	16
78655	*Procladius (Holotanypus) sp*	+
80360	*Corynoneura "celeripes" (sensu Simpson & Bode, 1980)*	8
80370	*Corynoneura lobata*	106
80420	*Cricotopus (C.) bicinctus*	16
81231	*Nanocladius (N.) crassicornus or N. (N.) "rectinervis"*	16
81650	*Parametriocnemus sp*	+
81690	*Paratrichocladius sp*	16
82121	*Thienemanniella lobapodema*	26
82730	*Chironomus (C.) decorus group*	+
82820	*Cryptochironomus sp*	+
83040	*Dicrotendipes neomodestus*	132 +
83300	*Glyptotendipes (G.) sp*	+
83820	*Microtendipes "caelum" (sensu Simpson & Bode, 1980)*	+
83840	*Microtendipes pedellus group*	445 +
84210	*Paratendipes albimanus or P. duplicatus*	66 +
84450	*Polypedilum (Uresipedilum) flavum*	33 +
84460	*Polypedilum (P.) fallax group*	115
84470	*Polypedilum (P.) illinoense*	49 +
84480	*Polypedilum (P.) laetum group*	+
84540	*Polypedilum (Tripodura) scalaenum group*	16
84750	*Stictochironomus sp*	+
85500	*Paratanytarsus sp*	115
85625	*Rheotanytarsus sp*	66 +
85800	*Tanytarsus sp*	33 +
85821	*Tanytarsus glabrescens group sp 7*	412 +
85840	*Tanytarsus sepp*	+
86100	*Chrysops sp*	+
93900	*Elimia sp*	2 +
95100	*Physella sp*	3 +
96900	*Ferrissia sp*	131 +
98600	*Sphaerium sp*	+

No. Quantitative Taxa: 42 Total Taxa: 66
No. Qualitative Taxa: 50 ICI: **36**
Number of Organisms: 2307 Qual EPT: 11

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Mile Creek

Collection Date: 08/06/2008 River Code: 14-609 RM: 9.80

Taxa Code	Taxa	Quant/Qual
01801	*Turbellaria*	+
03360	*Plumatella sp*	+
03600	*Oligochaeta*	+
04935	*Erpobdella punctata punctata*	+
05900	*Lirceus sp*	+
08601	*Hydrachnidia*	+
22001	*Coenagrionidae*	+
27500	*Somatochlora sp*	+
45300	*Sigara sp*	+
53501	*Hydroptilidae*	+
60900	*Peltodytes sp*	+
65800	*Berosus sp*	+
67800	*Tropisternus sp*	+
69400	*Stenelmis sp*	+
72700	*Anopheles sp*	+
84750	*Stictochironomus sp*	+
85821	*Tanytarsus glabrescens group sp 7*	+
98600	*Sphaerium sp*	+

Taxa Code	Taxa	Quant/Qual

No. Quantitative Taxa: 0 Total Taxa: 18

No. Qualitative Taxa: 18 ICI:

Number of Organisms: 0 Qual EPT: 1

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Mile Creek

Collection Date: 08/06/2008 River Code: 14-609 RM: 8.74

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	*Turbellaria*	+			
03600	*Oligochaeta*	+			
04935	*Erpobdella punctata punctata*	+			
11200	*Callibaetis sp*	+			
17200	*Caenis sp*	+			
22001	*Coenagrionidae*	+			
23700	*Anax sp*	+			
24501	*Gomphidae*	+			
28955	*Plathemis lydia*	+			
42700	*Belostoma sp*	+			
45100	*Palmacorixa sp*	+			
45300	*Sigara sp*	+			
53501	*Hydroptilidae*	+			
58505	*Helicopsyche borealis*	+			
59500	*Oecetis sp*	+			
60900	*Peltodytes sp*	+			
63900	*Laccophilus sp*	+			
65800	*Berosus sp*	+			
67800	*Tropisternus sp*	+			
78200	*Larsia sp*	+			
78655	*Procladius (Holotanypus) sp*	+			
83040	*Dicrotendipes neomodestus*	+			
84750	*Stictochironomus sp*	+			
84960	*Pseudochironomus sp*	+			
85800	*Tanytarsus sp*	+			
98200	*Pisidium sp*	+			
98600	*Sphaerium sp*	+			

No. Quantitative Taxa: 0 Total Taxa: 27

No. Qualitative Taxa: 27 ICI:

Number of Organisms: 0 Qual EPT: 5

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Mile Creek
Kremer Rd.

Collection Date: 09/04/2008 River Code: 14-609 RM: 5.97

Taxa Code	Taxa	Quant/Qual		Taxa Code	Taxa	Quant/Qual
01801	*Turbellaria*	9	+			
03360	*Plumatella sp*	1				
03600	*Oligochaeta*	33	+			
04666	*Helobdella triserialis*	1				
04935	*Erpobdella punctata punctata*	1				
05900	*Lirceus sp*	4	+			
11200	*Callibaetis sp*	1	+			
17200	*Caenis sp*	50	+			
22001	*Coenagrionidae*	18	+			
22300	*Argia sp*	11				
28001	*Libellulidae*		+			
28955	*Plathemis lydia*	2	+			
42700	*Belostoma sp*		+			
45300	*Sigara sp*		+			
45400	*Trichocorixa sp*	2	+			
59001	*Leptoceridae*	1				
60300	*Dineutus sp*	1				
60900	*Peltodytes sp*	1	+			
63600	*Hygrotus sp*		+			
63900	*Laccophilus sp*		+			
65800	*Berosus sp*	248	+			
67800	*Tropisternus sp*		+			
68700	*Dubiraphia sp*	1				
69400	*Stenelmis sp*	12				
72700	*Anopheles sp*		+			
74501	*Ceratopogonidae*	1				
77120	*Ablabesmyia mallochi*	4				
77355	*Clinotanypus pinguis*		+			
77750	*Hayesomyia senata or Thienemannimyia norena*	6				
78655	*Procladius (Holotanypus) sp*	4	+			
79020	*Tanypus neopunctipennis*	1	+			
80410	*Cricotopus (C.) sp*	1				
83040	*Dicrotendipes neomodestus*	40				
83300	*Glyptotendipes (G.) sp*	2				
84210	*Paratendipes albimanus or P. duplicatus*	1	+			
84450	*Polypedilum (Uresipedilum) flavum*	2				
84750	*Stictochironomus sp*		+			
85625	*Rheotanytarsus sp*	1				
85800	*Tanytarsus sp*	2				
85821	*Tanytarsus glabrescens group sp 7*	2				
95100	*Physella sp*	32	+			
98600	*Sphaerium sp*	28	+			
99100	*Pyganodon grandis*		+			

No. Quantitative Taxa: 33 Total Taxa: 43
No. Qualitative Taxa: 25 ICI: **22**
Number of Organisms: 524 Qual EPT: 2

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Mile Creek
St. Rt. 705

Collection Date: 09/04/2008 River Code: 14-609 RM: 0.50

Taxa Code	Taxa	Quant/Qual
01200	*Cordylophora lacustris*	1
01320	*Hydra sp*	261
01801	*Turbellaria*	306
03360	*Plumatella sp*	1
03600	*Oligochaeta*	435 +
04666	*Helobdella triserialis*	+
04686	*Placobdella papillifera*	1
11130	*Baetis intercalaris*	3
11200	*Callibaetis sp*	+
11251	*Centroptilum sp (w/ hindwing pads)*	+
13521	*Stenonema femoratum*	1
17200	*Caenis sp*	150 +
18750	*Hexagenia limbata*	+
22001	*Coenagrionidae*	18 +
22300	*Argia sp*	51 +
45100	*Palmacorixa sp*	+
45300	*Sigara sp*	+
45400	*Trichocorixa sp*	+
47600	*Sialis sp*	+
51206	*Cyrnellus fraternus*	4
54300	*Oxyethira sp*	2
59570	*Oecetis nocturna*	+
60900	*Peltodytes sp*	+
63900	*Laccophilus sp*	+
64800	*Uvarus sp*	+
65800	*Berosus sp*	1 +
69400	*Stenelmis sp*	+
74501	*Ceratopogonidae*	+
78655	*Procladius (Holotanypus) sp*	108 +
79020	*Tanypus neopunctipennis*	54 +
79040	*Tanypus stellatus*	+
82730	*Chironomus (C.) decorus group*	+
82780	*Chironomus (C.) staegeri group*	+
82800	*Cladopelma sp*	+
82820	*Cryptochironomus sp*	+
83002	*Dicrotendipes modestus*	538
83003	*Dicrotendipes fumidus*	+
83040	*Dicrotendipes neomodestus*	1237 +
83051	*Dicrotendipes simpsoni*	1506
83300	*Glyptotendipes (G.) sp*	2636 +
84470	*Polypedilum (P.) illinoense*	+
84520	*Polypedilum (Tripodura) halterale group*	54 +
84800	*Tribelos jucundum*	+
84960	*Pseudochironomus sp*	+
85230	*Cladotanytarsus mancus group*	+
85800	*Tanytarsus sp*	108 +
95100	*Physella sp*	19 +
96100	*Menetus (Micromenetus) sp*	9
96900	*Ferrissia sp*	49
97601	*Corbicula fluminea*	+
98600	*Sphaerium sp*	18 +
99100	*Pyganodon grandis*	+

No. Quantitative Taxa: 26 Total Taxa: 52
No. Qualitative Taxa: 39 ICI: **20**
Number of Organisms: 7571 Qual EPT: 5

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Spring Creek

Collection Date: 08/06/2008 River Code: 14-615 RM: 0.37

Taxa Code	Taxa	Quant/Qual
01801	*Turbellaria*	+
03600	*Oligochaeta*	+
04664	*Helobdella stagnalis*	+
05900	*Lirceus sp*	+
08250	*Orconectes (Procericambarus) rusticus*	+
11200	*Callibaetis sp*	+
13400	*Stenacron sp*	+
13521	*Stenonema femoratum*	+
17200	*Caenis sp*	+
22001	*Coenagrionidae*	+
45900	*Notonecta sp*	+
53800	*Hydroptila sp*	+
58505	*Helicopsyche borealis*	+
60900	*Peltodytes sp*	+
65800	*Berosus sp*	+
67800	*Tropisternus sp*	+
68708	*Dubiraphia vittata group*	+
77120	*Ablabesmyia mallochi*	+
78655	*Procladius (Holotanypus) sp*	+
79020	*Tanypus neopunctipennis*	+
80420	*Cricotopus (C.) bicinctus*	+
82730	*Chironomus (C.) decorus group*	+
82820	*Cryptochironomus sp*	+
83040	*Dicrotendipes neomodestus*	+
83300	*Glyptotendipes (G.) sp*	+
83840	*Microtendipes pedellus group*	+
84210	*Paratendipes albimanus or P. duplicatus*	+
84470	*Polypedilum (P.) illinoense*	+
84750	*Stictochironomus sp*	+
85230	*Cladotanytarsus mancus group*	+
85500	*Paratanytarsus sp*	+
85800	*Tanytarsus sp*	+
85821	*Tanytarsus glabrescens group sp 7*	+
95100	*Physella sp*	+
98600	*Sphaerium sp*	+

Taxa Code	Taxa	Quant/Qual

No. Quantitative Taxa: 0 Total Taxa: 35

No. Qualitative Taxa: 35 ICI:

Number of Organisms: 0 Qual EPT: 6

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Muchinippi Creek
St. Rt. 196

Collection Date: 07/16/2008 River Code: 14-700 RM: 12.98

Taxa Code	Taxa	Quant/Qual
01801	*Turbellaria*	+
03600	*Oligochaeta*	+
04964	*Mooreobdella microstoma*	+
05900	*Lirceus sp*	+
06201	*Hyalella azteca*	+
08250	*Orconectes (Procericambarus) rusticus*	+
08601	*Hydrachnidia*	+
11020	*Acerpenna pygmaea*	+
11120	*Baetis flavistriga*	+
11130	*Baetis intercalaris*	+
13000	*Leucrocuta sp*	+
13400	*Stenacron sp*	+
13521	*Stenonema femoratum*	+
17200	*Caenis sp*	+
18700	*Hexagenia sp*	+
22001	*Coenagrionidae*	+
23909	*Boyeria vinosa*	+
52200	*Cheumatopsyche sp*	+
53501	*Hydroptilidae*	+
59730	*Triaenodes melaca*	+
60900	*Peltodytes sp*	+
65800	*Berosus sp*	+
67000	*Helophorus sp*	+
68702	*Dubiraphia bivittata*	+
69400	*Stenelmis sp*	+
74100	*Simulium sp*	+
78655	*Procladius (Holotanypus) sp*	+
80420	*Cricotopus (C.) bicinctus*	+
82141	*Thienemanniella xena*	+
82730	*Chironomus (C.) decorus group*	+
82885	*Cryptotendipes pseudotener*	+
84450	*Polypedilum (Uresipedilum) flavum*	+
84470	*Polypedilum (P.) illinoense*	+
85261	*Cladotanytarsus vanderwulpi group Type 1*	+
85500	*Paratanytarsus sp*	+
85800	*Tanytarsus sp*	+
93200	*Hydrobiidae*	+
96002	*Helisoma anceps anceps*	+
98200	*Pisidium sp*	+
98600	*Sphaerium sp*	+
99100	*Pyganodon grandis*	+

Taxa Code	Taxa	Quant/Qual

No. Quantitative Taxa: 0
No. Qualitative Taxa: 41
Number of Organisms: 0

Total Taxa: 41
ICI:
Qual EPT: 11

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Muchinippi Creek
upst. U.S. Rt. 33

Collection Date: 07/16/2008 River Code: 14-700 RM: 12.50

Taxa Code	Taxa	Quant/Qual
01801	*Turbellaria*	+
03600	*Oligochaeta*	+
04686	*Placobdella papillifera*	+
04687	*Placobdella parasitica*	+
04962	*Mooreobdella fervida*	+
08250	*Orconectes (Procericambarus) rusticus*	+
08601	*Hydrachnidia*	+
11018	*Acerpenna macdunnoughi*	+
11120	*Baetis flavistriga*	+
11130	*Baetis intercalaris*	+
13400	*Stenacron sp*	+
13521	*Stenonema femoratum*	+
17200	*Caenis sp*	+
22001	*Coenagrionidae*	+
22300	*Argia sp*	+
23600	*Aeshna sp*	+
47600	*Sialis sp*	+
52200	*Cheumatopsyche sp*	+
58505	*Helicopsyche borealis*	+
60900	*Peltodytes sp*	+
65800	*Berosus sp*	+
68702	*Dubiraphia bivittata*	+
69400	*Stenelmis sp*	+
74100	*Simulium sp*	+
74501	*Ceratopogonidae*	+
77500	*Conchapelopia sp*	+
78655	*Procladius (Holotanypus) sp*	+
80420	*Cricotopus (C.) bicinctus*	+
80510	*Cricotopus (Isocladius) sylvestris group*	+
81632	*Parakiefferiella n.sp 2*	+
81650	*Parametriocnemus sp*	+
82141	*Thienemanniella xena*	+
82730	*Chironomus (C.) decorus group*	+
83040	*Dicrotendipes neomodestus*	+
83840	*Microtendipes pedellus group*	+
84450	*Polypedilum (Uresipedilum) flavum*	+
84470	*Polypedilum (P.) illinoense*	+
85625	*Rheotanytarsus sp*	+
85800	*Tanytarsus sp*	+
85821	*Tanytarsus glabrescens group sp 7*	+
94400	*Fossaria sp*	+
95100	*Physella sp*	+
98600	*Sphaerium sp*	+
99100	*Pyganodon grandis*	+

Taxa Code	Taxa	Quant/Qual

No. Quantitative Taxa: 0
No. Qualitative Taxa: 44
Number of Organisms: 0

Total Taxa: 44
ICI:
Qual EPT: 8

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Muchinippi Creek
Co. Rd. 87

Collection Date: 09/05/2008 River Code: 14-700 RM: 7.40

Taxa Code	Taxa	Quant/Qual
01801	*Turbellaria*	52 +
03600	*Oligochaeta*	8 +
04901	*Erpobdellidae*	+
05900	*Lirceus sp*	1 +
06700	*Crangonyx sp*	+
08250	*Orconectes (Procericambarus) rusticus*	+
08601	*Hydrachnidia*	+
11020	*Acerpenna pygmaea*	1
11120	*Baetis flavistriga*	80 +
11130	*Baetis intercalaris*	139 +
11200	*Callibaetis sp*	+
13000	*Leucrocuta sp*	1 +
13400	*Stenacron sp*	175 +
13521	*Stenonema femoratum*	+
17200	*Caenis sp*	9 +
18700	*Hexagenia sp*	+
21200	*Calopteryx sp*	1 +
22300	*Argia sp*	84 +
23909	*Boyeria vinosa*	+
24700	*Dromogomphus sp*	+
45100	*Palmacorixa sp*	+
45400	*Trichocorixa sp*	+
52200	*Cheumatopsyche sp*	485 +
52430	*Ceratopsyche morosa group*	+
53501	*Hydroptilidae*	+
57400	*Neophylax sp*	+
58505	*Helicopsyche borealis*	1 +
65800	*Berosus sp*	+
67800	*Tropisternus sp*	+
68075	*Psephenus herricki*	+
68601	*Ancyronyx variegata*	+
68702	*Dubiraphia bivittata*	+
68708	*Dubiraphia vittata group*	+
68901	*Macronychus glabratus*	1 +
69400	*Stenelmis sp*	10 +
77500	*Conchapelopia sp*	+
77800	*Helopelopia sp*	16
78450	*Nilotanypus fimbriatus*	49
78655	*Procladius (Holotanypus) sp*	+
80370	*Corynoneura lobata*	24
81231	*Nanocladius (N.) crassicornus or N. (N.) "rectinervis"*	16
82730	*Chironomus (C.) decorus group*	+
82820	*Cryptochironomus sp*	+
82880	*Cryptotendipes sp*	+
83040	*Dicrotendipes neomodestus*	16 +
83820	*Microtendipes "caelum" (sensu Simpson & Bode, 1980)*	65 +
83840	*Microtendipes pedellus group*	33
84210	*Paratendipes albimanus or P. duplicatus*	16 +
84300	*Phaenopsectra obediens group*	16
84315	*Phaenopsectra flavipes*	16
84450	*Polypedilum (Uresipedilum) flavum*	114
84460	*Polypedilum (P.) fallax group*	49
84540	*Polypedilum (Tripodura) scalaenum group*	16 +
85500	*Paratanytarsus sp*	98
85625	*Rheotanytarsus sp*	668
85800	*Tanytarsus sp*	+
85821	*Tanytarsus glabrescens group sp 7*	130
85840	*Tanytarsus sepp*	65
86100	*Chrysops sp*	+
87540	*Hemerodromia sp*	25
93200	*Hydrobiidae*	+
96900	*Ferrissia sp*	9
98600	*Sphaerium sp*	+

No. Quantitative Taxa: 34 Total Taxa: 63
No. Qualitative Taxa: 47 ICI: **50**
Number of Organisms: 2489 Qual EPT: 13

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Muchinippi Creek
Myers Rd.

Collection Date: 09/05/2008 River Code: 14-700 RM: 4.76

Taxa Code	Taxa	Quant/Qual	
01320	*Hydra sp*	4	
01801	*Turbellaria*	2	+
02960	*Paragordius sp*		+
03600	*Oligochaeta*	41	+
05800	*Caecidotea sp*		+
05900	*Lirceus sp*	1	+
06700	*Crangonyx sp*		+
08250	*Orconectes (Procericambarus) rusticus*		+
08601	*Hydrachnidia*		+
11020	*Acerpenna pygmaea*	1	+
11130	*Baetis intercalaris*	1	
11650	*Procloeon sp (w/ hindwing pads)*		+
11670	*Procloeon viridoculare*		+
13000	*Leucrocuta sp*	1	+
13400	*Stenacron sp*	66	+
17200	*Caenis sp*	1	+
21200	*Calopteryx sp*	1	+
22001	*Coenagrionidae*		+
22300	*Argia sp*	9	+
23909	*Boyeria vinosa*		+
45900	*Notonecta sp*		+
47600	*Sialis sp*		+
52200	*Cheumatopsyche sp*	1	+
57400	*Neophylax sp*		+
68702	*Dubiraphia bivittata*		+
68708	*Dubiraphia vittata group*	1	+
68901	*Macronychus glabratus*	5	+
69400	*Stenelmis sp*	1	+
72700	*Anopheles sp*		+
77120	*Ablabesmyia mallochi*	13	+
77500	*Conchapelopia sp*	13	+
78450	*Nilotanypus fimbriatus*	26	
78655	*Procladius (Holotanypus) sp*		+
80370	*Corynoneura lobata*	4	
82730	*Chironomus (C.) decorus group*		+
82820	*Cryptochironomus sp*		+
82885	*Cryptotendipes pseudotener*		+
83040	*Dicrotendipes neomodestus*	79	
83820	*Microtendipes "caelum" (sensu Simpson & Bode, 1980)*		+
83840	*Microtendipes pedellus group*	303	+
84210	*Paratendipes albimanus or P. duplicatus*	13	
84300	*Phaenopsectra obediens group*		+
84315	*Phaenopsectra flavipes*	26	+
84450	*Polypedilum (Uresipedilum) flavum*	13	+
84460	*Polypedilum (P.) fallax group*	132	
84470	*Polypedilum (P.) illinoense*		+
84540	*Polypedilum (Tripodura) scalaenum group*	26	+
84750	*Stictochironomus sp*		+
84800	*Tribelos jucundum*	13	
85500	*Paratanytarsus sp*	92	
85625	*Rheotanytarsus sp*	105	
85821	*Tanytarsus glabrescens group sp 7*	224	
85840	*Tanytarsus sepp*	40	
96900	*Ferrissia sp*	7	
98600	*Sphaerium sp*	1	+

No. Quantitative Taxa: 33 Total Taxa: 55
No. Qualitative Taxa: 42 ICI: **28**
Number of Organisms: 1266 Qual EPT: 8

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Muchinippi Creek
St. Rt. 274

Collection Date: 09/05/2008 River Code: 14-700 RM: 2.37

Taxa Code	Taxa	Quant/Qual
01801	*Turbellaria*	1
02960	*Paragordius sp*	+
03600	*Oligochaeta*	47 +
04685	*Placobdella ornata*	1
04901	*Erpobdellidae*	1
05800	*Caecidotea sp*	4
05900	*Lirceus sp*	3
08250	*Orconectes (Procericambarus) rusticus*	+
08601	*Hydrachnidia*	2
11200	*Callibaetis sp*	+
13400	*Stenacron sp*	+
17200	*Caenis sp*	1
18708	*Hexagenia bilineata*	+
18750	*Hexagenia limbata*	+
21200	*Calopteryx sp*	+
22001	*Coenagrionidae*	+
45100	*Palmacorixa sp*	+
45300	*Sigara sp*	+
45400	*Trichocorixa sp*	+
45900	*Notonecta sp*	+
47600	*Sialis sp*	+
60900	*Peltodytes sp*	+
63900	*Laccophilus sp*	+
65800	*Berosus sp*	+
66500	*Enochrus sp*	+
68601	*Ancyronyx variegata*	+
68700	*Dubiraphia sp*	1
72900	*Culex sp*	+
77100	*Ablabesmyia sp*	1
78655	*Procladius (Holotanypus) sp*	2
81231	*Nanocladius (N.) crassicornus or N. (N.) "rectinervis"*	1
82730	*Chironomus (C.) decorus group*	7
83040	*Dicrotendipes neomodestus*	2 +
83045	*Dicrotendipes nervosus*	+
83051	*Dicrotendipes simpsoni*	5 +
83840	*Microtendipes pedellus group*	1
84210	*Paratendipes albimanus or P. duplicatus*	19
84300	*Phaenopsectra obediens group*	+
84460	*Polypedilum (P.) fallax group*	3
84540	*Polypedilum (Tripodura) scalaenum group*	2
84750	*Stictochironomus sp*	+
84790	*Tribelos fuscicorne*	2
84800	*Tribelos jucundum*	2 +
85500	*Paratanytarsus sp*	1 +
85625	*Rheotanytarsus sp*	1
85800	*Tanytarsus sp*	+
89501	*Ephydridae*	+
95100	*Physella sp*	+
96900	*Ferrissia sp*	3
97601	*Corbicula fluminea*	+
98001	*Sphaeriidae*	1

No. Quantitative Taxa: 25 Total Taxa: 51
No. Qualitative Taxa: 31 ICI: **12**
Number of Organisms: 114 Qual EPT: 4

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Little Muchinippi Creek

Collection Date: 08/05/2008 River Code: 14-703 RM: 6.05

Taxa Code	Taxa	Quant/Qual
01801	*Turbellaria*	+
03600	*Oligochaeta*	+
04685	*Placobdella ornata*	+
05900	*Lirceus sp*	+
07850	*Cambarus (Lacunicambarus) diogenes diogenes*	+
08601	*Hydrachnidia*	+
11200	*Callibaetis sp*	+
13521	*Stenonema femoratum*	+
21200	*Calopteryx sp*	+
22001	*Coenagrionidae*	+
22300	*Argia sp*	+
23600	*Aeshna sp*	+
23909	*Boyeria vinosa*	+
45100	*Palmacorixa sp*	+
45300	*Sigara sp*	+
47600	*Sialis sp*	+
53800	*Hydroptila sp*	+
58505	*Helicopsyche borealis*	+
59730	*Triaenodes melaca*	+
60900	*Peltodytes sp*	+
65700	*Anacaena sp*	+
65800	*Berosus sp*	+
67800	*Tropisternus sp*	+
68702	*Dubiraphia bivittata*	+
68707	*Dubiraphia quadrinotata*	+
68708	*Dubiraphia vittata group*	+
74501	*Ceratopogonidae*	+
77120	*Ablabesmyia mallochi*	+
77500	*Conchapelopia sp*	+
77800	*Helopelopia sp*	+
78140	*Labrundinia pilosella*	+
78655	*Procladius (Holotanypus) sp*	+
80420	*Cricotopus (C.) bicinctus*	+
80510	*Cricotopus (Isocladius) sylvestris group*	+
81040	*Limnophyes sp*	+
82820	*Cryptochironomus sp*	+
83840	*Microtendipes pedellus group*	+
84210	*Paratendipes albimanus or P. duplicatus*	+
84470	*Polypedilum (P.) illinoense*	+
84520	*Polypedilum (Tripodura) halterale group*	+
85230	*Cladotanytarsus mancus group*	+
85500	*Paratanytarsus sp*	+
85625	*Rheotanytarsus sp*	+
85800	*Tanytarsus sp*	+
85821	*Tanytarsus glabrescens group sp 7*	+
87540	*Hemerodromia sp*	+
93200	*Hydrobiidae*	+
98600	*Sphaerium sp*	+

No. Quantitative Taxa: 0 Total Taxa: 48

No. Qualitative Taxa: 48 ICI:

Number of Organisms: 0 Qual EPT: 5

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Little Muchinippi Creek
gravel road nr. mouth

Collection Date: 09/22/2008 River Code: 14-703 RM: 0.62

Taxa Code	Taxa	Quant/Qual
00556	*Ephydatia fluviatilis*	+
01320	*Hydra sp*	16
01801	*Turbellaria*	420 +
03600	*Oligochaeta*	256 +
04666	*Helobdella triserialis*	+
04964	*Mooreobdella microstoma*	+
05800	*Caecidotea sp*	+
05900	*Lirceus sp*	+
08601	*Hydrachnidia*	1 +
11120	*Baetis flavistriga*	+
11130	*Baetis intercalaris*	2 +
11200	*Callibaetis sp*	+
13400	*Stenacron sp*	22 +
17200	*Caenis sp*	130 +
21200	*Calopteryx sp*	+
21300	*Hetaerina sp*	1 +
22001	*Coenagrionidae*	1 +
22300	*Argia sp*	7 +
23909	*Boyeria vinosa*	4 +
44501	*Corixidae*	+
52200	*Cheumatopsyche sp*	1310 +
52530	*Hydropsyche depravata group*	7
53800	*Hydroptila sp*	86 +
60900	*Peltodytes sp*	+
65800	*Berosus sp*	5
68702	*Dubiraphia bivittata*	+
68708	*Dubiraphia vittata group*	+
68901	*Macronychus glabratus*	1
69400	*Stenelmis sp*	81 +
74501	*Ceratopogonidae*	+
77120	*Ablabesmyia mallochi*	64 +
77500	*Conchapelopia sp*	320 +
78140	*Labrundinia pilosella*	+
78450	*Nilotanypus fimbriatus*	32
78655	*Procladius (Holotanypus) sp*	+
80360	*Corynoneura "celeripes" (sensu Simpson & Bode, 1980)*	32
80420	*Cricotopus (C.) bicinctus*	1088 +
80430	*Cricotopus (C.) tremulus group*	128
81231	*Nanocladius (N.) crassicornus or N. (N.) "rectinervis"*	64
81825	*Rheocricotopus (Psilocricotopus) robacki*	64
82141	*Thienemanniella xena*	16
83040	*Dicrotendipes neomodestus*	256 +
83051	*Dicrotendipes simpsoni*	64
83820	*Microtendipes "caelum" (sensu Simpson & Bode, 1980)*	64 +
83840	*Microtendipes pedellus group*	576
84210	*Paratendipes albimanus or P. duplicatus*	+
84300	*Phaenopsectra obediens group*	+
84450	*Polypedilum (Uresipedilum) flavum*	1216 +
84460	*Polypedilum (P.) fallax group*	64
84470	*Polypedilum (P.) illinoense*	+
84540	*Polypedilum (Tripodura) scalaenum group*	128 +
85230	*Cladotanytarsus mancus group*	+
85500	*Paratanytarsus sp*	256 +
85625	*Rheotanytarsus sp*	448 +
85800	*Tanytarsus sp*	512 +
85821	*Tanytarsus glabrescens group sp 7*	448
85840	*Tanytarsus sepp*	+
87540	*Hemerodromia sp*	448 +
93200	*Hydrobiidae*	12 +
95100	*Physella sp*	+
95501	*Planorbidae*	16
96900	*Ferrissia sp*	71 +
97601	*Corbicula fluminea*	19 +
98600	*Sphaerium sp*	1 +

No. Quantitative Taxa: 43 Total Taxa: 64
No. Qualitative Taxa: 49 ICI: **36**
Number of Organisms: 8757 Qual EPT: 7

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Jackson Center Creek
upst. St. Rt. 274

Collection Date: 07/24/2008 River Code: 14-705 RM: 2.90

Taxa Code	Taxa	Quant/Qual
01801	*Turbellaria*	+
03600	*Oligochaeta*	+
04814	*Haemopis marmorata*	+
04935	*Erpobdella punctata punctata*	+
05900	*Lirceus sp*	+
08250	*Orconectes (Procericambarus) rusticus*	+
08601	*Hydrachnidia*	+
11120	*Baetis flavistriga*	+
11130	*Baetis intercalaris*	+
22001	*Coenagrionidae*	+
22300	*Argia sp*	+
23600	*Aeshna sp*	+
24600	*Arigomphus sp*	+
28955	*Plathemis lydia*	+
45300	*Sigara sp*	+
52200	*Cheumatopsyche sp*	+
60800	*Haliplus sp*	+
60900	*Peltodytes sp*	+
63300	*Hydroporini*	+
65800	*Berosus sp*	+
68708	*Dubiraphia vittata group*	+
72700	*Anopheles sp*	+
74100	*Simulium sp*	+
77500	*Conchapelopia sp*	+
77750	*Hayesomyia senata or Thienemannimyia norena*	+
78655	*Procladius (Holotanypus) sp*	+
80420	*Cricotopus (C.) bicinctus*	+
82820	*Cryptochironomus sp*	+
84210	*Paratendipes albimanus or P. duplicatus*	+
84470	*Polypedilum (P.) illinoense*	+
84750	*Stictochironomus sp*	+
85500	*Paratanytarsus sp*	+
85625	*Rheotanytarsus sp*	+
95100	*Physella sp*	+
98600	*Sphaerium sp*	+

Taxa Code	Taxa	Quant/Qual

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: Jackson Center Creek
Lock Two Rd.

Collection Date: 07/24/2008 River Code: 14-705 RM: 1.80

Taxa Code	Taxa	Quant/Qual
01801	*Turbellaria*	+
03360	*Plumatella sp*	+
03600	*Oligochaeta*	+
04666	*Helobdella triserialis*	+
04685	*Placobdella ornata*	+
04935	*Erpobdella punctata punctata*	+
04960	*Mooreobdella sp*	+
05900	*Lirceus sp*	+
07800	*Cambarus sp*	+
11200	*Callibaetis sp*	+
13400	*Stenacron sp*	+
13521	*Stenonema femoratum*	+
17200	*Caenis sp*	+
22001	*Coenagrionidae*	+
23700	*Anax sp*	+
28955	*Plathemis lydia*	+
42700	*Belostoma sp*	+
45100	*Palmacorixa sp*	+
60900	*Peltodytes sp*	+
63900	*Laccophilus sp*	+
65800	*Berosus sp*	+
66500	*Enochrus sp*	+
67800	*Tropisternus sp*	+
68708	*Dubiraphia vittata group*	+
74100	*Simulium sp*	+
77120	*Ablabesmyia mallochi*	+
77355	*Clinotanypus pinguis*	+
77500	*Conchapelopia sp*	+
78140	*Labrundinia pilosella*	+
78655	*Procladius (Holotanypus) sp*	+
80410	*Cricotopus (C.) sp*	+
80420	*Cricotopus (C.) bicinctus*	+
80510	*Cricotopus (Isocladius) sylvestris group*	+
82820	*Cryptochironomus sp*	+
83040	*Dicrotendipes neomodestus*	+
84210	*Paratendipes albimanus or P. duplicatus*	+
84470	*Polypedilum (P.) illinoense*	+
84750	*Stictochironomus sp*	+
85625	*Rheotanytarsus sp*	+
85800	*Tanytarsus sp*	+
85840	*Tanytarsus sepp*	+
86100	*Chrysops sp*	+
93200	*Hydrobiidae*	+
95100	*Physella sp*	+
95907	*Gyraulus (Torquis) parvus*	+
96264	*Planorbella (Pierosoma) pilsbryi*	+
98600	*Sphaerium sp*	+

No. Quantitative Taxa: 0
No. Qualitative Taxa: 47
Number of Organisms: 0

Total Taxa: 47
ICI:
Qual EPT: 4

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Willow Creek
dst. Wrestle Creek Rd.

Collection Date: 07/16/2008 River Code: 14-706 RM: 3.70

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	*Turbellaria*	+			
03600	*Oligochaeta*	+			
05900	*Lirceus sp*	+			
08250	*Orconectes (Procericambarus) rusticus*	+			
08601	*Hydrachnidia*	+			
11130	*Baetis intercalaris*	+			
11200	*Callibaetis sp*	+			
17200	*Caenis sp*	+			
22001	*Coenagrionidae*	+			
47600	*Sialis sp*	+			
59410	*Nectopsyche diarina*	+			
60800	*Haliplus sp*	+			
60900	*Peltodytes sp*	+			
65800	*Berosus sp*	+			
68702	*Dubiraphia bivittata*	+			
68708	*Dubiraphia vittata group*	+			
74100	*Simulium sp*	+			
77355	*Clinotanypus pinguis*	+			
77500	*Conchapelopia sp*	+			
78655	*Procladius (Holotanypus) sp*	+			
80420	*Cricotopus (C.) bicinctus*	+			
80510	*Cricotopus (Isocladius) sylvestris group*	+			
82800	*Cladopelma sp*	+			
82820	*Cryptochironomus sp*	+			
82885	*Cryptotendipes pseudotener*	+			
83002	*Dicrotendipes modestus*	+			
83003	*Dicrotendipes fumidus*	+			
84002	*Parachironomus sp B (sensu Saether, 1977)*	+			
84155	*Paralauterborniella nigrohalteralis*	+			
84470	*Polypedilum (P.) illinoense*	+			
85500	*Paratanytarsus sp*	+			
85625	*Rheotanytarsus sp*	+			
93200	*Hydrobiidae*	+			
95100	*Physella sp*	+			
95907	*Gyraulus (Torquis) parvus*	+			
96264	*Planorbella (Pierosoma) pilsbryi*	+			
98200	*Pisidium sp*	+			
98600	*Sphaerium sp*	+			

No. Quantitative Taxa: 0 Total Taxa: 38
No. Qualitative Taxa: 38 ICI:
Number of Organisms: 0 Qual EPT: 4

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Willow Creek
Idle Rd.

Collection Date: 07/16/2008 River Code: 14-706 RM: 0.44

Taxa Code	Taxa	Quant/Qual
01801	*Turbellaria*	+
03600	*Oligochaeta*	+
04964	*Mooreobdella microstoma*	+
05900	*Lirceus sp*	+
06201	*Hyalella azteca*	+
08601	*Hydrachnidia*	+
17200	*Caenis sp*	+
22001	*Coenagrionidae*	+
22300	*Argia sp*	+
44501	*Corixidae*	+
52200	*Cheumatopsyche sp*	+
53800	*Hydroptila sp*	+
57400	*Neophylax sp*	+
60400	*Gyrinus sp*	+
65800	*Berosus sp*	+
68708	*Dubiraphia vittata group*	+
69400	*Stenelmis sp*	+
74100	*Simulium sp*	+
77750	*Hayesomyia senata or Thienemannimyia norena*	+
80420	*Cricotopus (C.) bicinctus*	+
80510	*Cricotopus (Isocladius) sylvestris group*	+
82141	*Thienemanniella xena*	+
82710	*Chironomus (C.) sp*	+
82820	*Cryptochironomus sp*	+
83003	*Dicrotendipes fumidus*	+
83040	*Dicrotendipes neomodestus*	+
84470	*Polypedilum (P.) illinoense*	+
85230	*Cladotanytarsus mancus group*	+
85500	*Paratanytarsus sp*	+
85625	*Rheotanytarsus sp*	+
85800	*Tanytarsus sp*	+
95100	*Physella sp*	+
98600	*Sphaerium sp*	+
99100	*Pyganodon grandis*	+

No. Quantitative Taxa: 0	Total Taxa: 34
No. Qualitative Taxa: 34	ICI:
Number of Organisms: 0	Qual EPT: 4

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: South Fork Great Miami River
St. Rt. 638

Collection Date: 08/26/2008 River Code: 14-800 RM: 8.00

Taxa Code	Taxa	Quant/Qual
01320	*Hydra sp*	12
01801	*Turbellaria*	101 +
03360	*Plumatella sp*	4 +
03600	*Oligochaeta*	32 +
08601	*Hydrachnidia*	8
11120	*Baetis flavistriga*	166 +
11130	*Baetis intercalaris*	155 +
11200	*Callibaetis sp*	+
11650	*Procloeon sp (w/ hindwing pads)*	+
13400	*Stenacron sp*	186 +
13521	*Stenonema femoratum*	17 +
13561	*Maccaffertium pulchellum*	1
17200	*Caenis sp*	42 +
21200	*Calopteryx sp*	59
22001	*Coenagrionidae*	2 +
50804	*Lype diversa*	1
51600	*Polycentropus sp*	+
52200	*Cheumatopsyche sp*	53 +
52430	*Ceratopsyche morosa group*	191 +
52530	*Hydropsyche depravata group*	31 +
53800	*Hydroptila sp*	4 +
57900	*Pycnopsyche sp*	+
58505	*Helicopsyche borealis*	5 +
59500	*Oecetis sp*	+
65800	*Berosus sp*	8 +
68075	*Psephenus herricki*	+
68707	*Dubiraphia quadrinotata*	+
68901	*Macronychus glabratus*	17
69210	*Optioservus ampliatus*	+
69400	*Stenelmis sp*	2 +
71100	*Hexatoma sp*	+
74100	*Simulium sp*	+
77500	*Conchapelopia sp*	212 +
77750	*Hayesomyia senata or Thienemannimyia norena*	46
77800	*Helopelopia sp*	60 +
78450	*Nilotanypus fimbriatus*	33
78655	*Procladius (Holotanypus) sp*	+
80410	*Cricotopus (C.) sp*	16
80420	*Cricotopus (C.) bicinctus*	46
80430	*Cricotopus (C.) tremulus group*	30
81231	*Nanocladius (N.) crassicornus or N. (N.) "rectinervis"*	16
81690	*Paratrichocladius sp*	60
82101	*Thienemanniella taurocapita*	16
82820	*Cryptochironomus sp*	16 +
83003	*Dicrotendipes fumidus*	75 +
83040	*Dicrotendipes neomodestus*	75
83300	*Glyptotendipes (G.) sp*	16
83820	*Microtendipes "caelum" (sensu Simpson & Bode, 1980)*	91 +
83840	*Microtendipes pedellus group*	105
84210	*Paratendipes albimanus or P. duplicatus*	46
84300	*Phaenopsectra obediens group*	75
84315	*Phaenopsectra flavipes*	16
84440	*Polypedilum (Uresipedilum) aviceps*	46
84450	*Polypedilum (Uresipedilum) flavum*	301 +
84460	*Polypedilum (P.) fallax group*	75
84470	*Polypedilum (P.) illinoense*	+
84480	*Polypedilum (P.) laetum group*	+
85500	*Paratanytarsus sp*	121
85501	*Paratanytarsus longistilus*	16
85625	*Rheotanytarsus sp*	135 +
85752	*Sublettea coffmani*	30
85800	*Tanytarsus sp*	30
85821	*Tanytarsus glabrescens group sp 7*	121
85840	*Tanytarsus sepp*	75
87540	*Hemerodromia sp*	16
89700	*Limnophora sp*	+
95100	*Physella sp*	1 +
96002	*Helisoma anceps anceps*	+
96900	*Ferrissia sp*	9 +
98600	*Sphaerium sp*	8 +

No. Quantitative Taxa: 55 Total Taxa: 70
No. Qualitative Taxa: 41 ICI: **50**
Number of Organisms: 3131 Qual EPT: 15

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: South Fork Great Miami River
Co. Rd. 39

Collection Date: 08/25/2008 River Code: 14-800 RM: 7.23

Taxa Code	Taxa	Quant/Qual
01320	*Hydra sp*	9
01801	*Turbellaria*	1 +
03040	*Fredericella sp*	1
03600	*Oligochaeta*	+
08601	*Hydrachnidia*	11
11120	*Baetis flavistriga*	108 +
11130	*Baetis intercalaris*	85 +
11250	*Centroptilum sp (w/o hindwing pads)*	+
11430	*Diphetor hageni*	3
13400	*Stenacron sp*	30 +
13521	*Stenonema femoratum*	3 +
13561	*Maccaffertium pulchellum*	11
17200	*Caenis sp*	12 +
21200	*Calopteryx sp*	9 +
21300	*Hetaerina sp*	+
22001	*Coenagrionidae*	+
22300	*Argia sp*	1 +
23909	*Boyeria vinosa*	+
45100	*Palmacorixa sp*	+
45900	*Notonecta sp*	+
50315	*Chimarra obscura*	+
50804	*Lype diversa*	+
51400	*Nyctiophylax sp*	+
52200	*Cheumatopsyche sp*	18 +
52430	*Ceratopsyche morosa group*	91 +
52530	*Hydropsyche depravata group*	1 +
53800	*Hydroptila sp*	61 +
58505	*Helicopsyche borealis*	1 +
59310	*Mystacides sepulchralis*	+
59410	*Nectopsyche diarina*	1 +
59500	*Oecetis sp*	+
60400	*Gyrinus sp*	+
66500	*Enochrus sp*	+
68601	*Ancyronyx variegata*	11 +
68702	*Dubiraphia bivittata*	+
68707	*Dubiraphia quadrinotata*	+
68708	*Dubiraphia vittata group*	1 +
68901	*Macronychus glabratus*	2 +
69210	*Optioservus ampliatus*	+
69400	*Stenelmis sp*	15 +
71100	*Hexatoma sp*	+
72700	*Anopheles sp*	+
74100	*Simulium sp*	12 +
77120	*Ablabesmyia mallochi*	+
77500	*Conchapelopia sp*	23 +
77750	*Hayesomyia senata or Thienemannimyia norena*	69 +
77800	*Helopelopia sp*	11 +
78140	*Labrundinia pilosella*	25
78450	*Nilotanypus fimbriatus*	22
80370	*Corynoneura lobata*	176 +
80410	*Cricotopus (C.) sp*	11
80420	*Cricotopus (C.) bicinctus*	11 +
81650	*Parametriocnemus sp*	11
81690	*Paratrichocladius sp*	23
82101	*Thienemanniella taurocapita*	8 +
82121	*Thienemanniella lobapodema*	9
82141	*Thienemanniella xena*	25
82820	*Cryptochironomus sp*	11
82885	*Cryptotendipes pseudotener*	+
83820	*Microtendipes "caelum" (sensu Simpson & Bode, 1980)*	23 +
83840	*Microtendipes pedellus group*	23
84155	*Paralauterborniella nigrohalteralis*	11
84300	*Phaenopsectra obediens group*	+
84450	*Polypedilum (Uresipedilum) flavum*	298 +
84460	*Polypedilum (P.) fallax group*	46
84480	*Polypedilum (P.) laetum group*	+
84490	*Polypedilum (Cerobregma) ontario*	+
84540	*Polypedilum (Tripodura) scalaenum group*	+
85261	*Cladotanytarsus vanderwulpi group Type 1*	23
85500	*Paratanytarsus sp*	46 +
85615	*Rheotanytarsus pellucidus*	46 +
85625	*Rheotanytarsus sp*	459 +
85720	*Stempellinella fimbriata*	8
85800	*Tanytarsus sp*	+
85821	*Tanytarsus glabrescens group sp 7*	103
85840	*Tanytarsus sepp*	126 +
86100	*Chrysops sp*	+
87540	*Hemerodromia sp*	27
95100	*Physella sp*	11 +
96002	*Helisoma anceps anceps*	+
96900	*Ferrissia sp*	100 +
98600	*Sphaerium sp*	+

No. Quantitative Taxa: 53 Total Taxa: 82
No. Qualitative Taxa: 62 ICI: **54**
Number of Organisms: 2283 Qual EPT: 17

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: South Fork Great Miami River
Co. Rd. 97

Collection Date: 08/26/2008 River Code: 14-800 RM: 5.80

Taxa Code	Taxa	Quant/Qual
01320	*Hydra sp*	41
01801	*Turbellaria*	20
03040	*Fredericella sp*	+
03360	*Plumatella sp*	+
07800	*Cambarus sp*	+
08601	*Hydrachnidia*	8
11020	*Acerpenna pygmaea*	1
11120	*Baetis flavistriga*	195 +
11130	*Baetis intercalaris*	233 +
11200	*Callibaetis sp*	+
11430	*Diphetor hageni*	+
13000	*Leucrocuta sp*	1
13400	*Stenacron sp*	107 +
13521	*Stenonema femoratum*	25 +
13590	*Maccaffertium vicarium*	1
17200	*Caenis sp*	3 +
21200	*Calopteryx sp*	2 +
22001	*Coenagrionidae*	+
22300	*Argia sp*	1 +
23909	*Boyeria vinosa*	+
47600	*Sialis sp*	+
50804	*Lype diversa*	1 +
52200	*Cheumatopsyche sp*	119 +
52430	*Ceratopsyche morosa group*	155 +
52530	*Hydropsyche depravata group*	+
53501	*Hydroptilidae*	1 +
57400	*Neophylax sp*	+
57900	*Pycnopsyche sp*	+
58505	*Helicopsyche borealis*	+
59580	*Oecetis persimilis*	1 +
68075	*Psephenus herricki*	+
68130	*Helichus sp*	+
68601	*Ancyronyx variegata*	+
68708	*Dubiraphia vittata group*	+
68901	*Macronychus glabratus*	4 +
69225	*Optioservus fastiditus*	+
69400	*Stenelmis sp*	+
71100	*Hexatoma sp*	+
74100	*Simulium sp*	+
77120	*Ablabesmyia mallochi*	28
77500	*Conchapelopia sp*	56
77800	*Helopelopia sp*	+
78450	*Nilotanypus fimbriatus*	28
80370	*Corynoneura lobata*	56
81270	*Nanocladius (N.) spiniplenus*	28
81632	*Parakiefferiella n.sp 2*	+
81825	*Rheocricotopus (Psilocricotopus) robacki*	28
82100	*Thienemanniella sp*	32
82121	*Thienemanniella lobapodema*	16
82730	*Chironomus (C.) decorus group*	+
82820	*Cryptochironomus sp*	+
82885	*Cryptotendipes pseudotener*	+
83040	*Dicrotendipes neomodestus*	84 +
83051	*Dicrotendipes simpsoni*	+
83820	*Microtendipes "caelum" (sensu Simpson & Bode, 1980)*	+
83840	*Microtendipes pedellus group*	+
84300	*Phaenopsectra obediens group*	56 +
84450	*Polypedilum (Uresipedilum) flavum*	282 +
84460	*Polypedilum (P.) fallax group*	28
84470	*Polypedilum (P.) illinoense*	56 +
85500	*Paratanytarsus sp*	56 +
85625	*Rheotanytarsus sp*	563
85800	*Tanytarsus sp*	450 +
85821	*Tanytarsus glabrescens group sp 7*	366
87540	*Hemerodromia sp*	16
96002	*Helisoma anceps anceps*	+
96900	*Ferrissia sp*	18 +

No. Quantitative Taxa: 38 Total Taxa: 67
No. Qualitative Taxa: 49 ICI: **56**
Number of Organisms: 3166 Qual EPT: 16

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: South Fork Great Miami River
St. Rt. 117

Collection Date: 08/26/2008 River Code: 14-800 RM: 3.60

Taxa Code	Taxa	Quant	Qual
01320	*Hydra sp*	160	+
01801	*Turbellaria*	50	+
03360	*Plumatella sp*	3	+
03451	*Urnatella gracilis*	1	
03600	*Oligochaeta*	304	+
06201	*Hyalella azteca*		+
08250	*Orconectes (Procericambarus) rusticus*	1	+
11120	*Baetis flavistriga*	200	+
11130	*Baetis intercalaris*	40	+
11200	*Callibaetis sp*		+
11430	*Diphetor hageni*		+
13400	*Stenacron sp*	190	+
13521	*Stenonema femoratum*	37	+
13590	*Maccaffertium vicarium*	2	+
14950	*Leptophlebia sp or Paraleptophlebia sp*	1	
17200	*Caenis sp*	88	+
21200	*Calopteryx sp*	12	+
22001	*Coenagrionidae*		+
23909	*Boyeria vinosa*		+
44300	*Pelocoris sp*		+
45000	*Hesperocorixa sp*		+
45300	*Sigara sp*		+
50804	*Lype diversa*		+
51600	*Polycentropus sp*	1	+
52200	*Cheumatopsyche sp*	80	+
52430	*Ceratopsyche morosa group*	174	+
52440	*Ceratopsyche slossonae*		+
52530	*Hydropsyche depravata group*		+
53800	*Hydroptila sp*	50	+
57900	*Pycnopsyche sp*		+
58505	*Helicopsyche borealis*		+
59300	*Mystacides sp*		+
59410	*Nectopsyche diarina*	1	+
63900	*Laccophilus sp*		+
65800	*Berosus sp*		+
67700	*Paracymus sp*		+
67800	*Tropisternus sp*		+
68075	*Psephenus herricki*		+
68707	*Dubiraphia quadrinotata*		+
68708	*Dubiraphia vittata group*	9	+
68901	*Macronychus glabratus*		+
69225	*Optioservus fastiditus*		+
69400	*Stenelmis sp*	33	+
71900	*Tipula sp*	1	+
72700	*Anopheles sp*		+
74100	*Simulium sp*		+
77120	*Ablabesmyia mallochi*	154	
77500	*Conchapelopia sp*	51	
77800	*Helopelopia sp*	154	+
78140	*Labrundinia pilosella*	51	+
78450	*Nilotanypus fimbriatus*	206	
78655	*Procladius (Holotanypus) sp*		+
80360	*Corynoneura "celeripes" (sensu Simpson & Bode, 1980)*	16	
80370	*Corynoneura lobata*	80	
80420	*Cricotopus (C.) bicinctus*		+
80430	*Cricotopus (C.) tremulus group*	154	
80440	*Cricotopus (C.) trifascia*		+
81825	*Rheocricotopus (Psilocricotopus) robacki*	51	
82141	*Thienemanniella xena*	16	
82820	*Cryptochironomus sp*		+
83040	*Dicrotendipes neomodestus*	103	+
83840	*Microtendipes pedellus group*	514	
84300	*Phaenopsectra obediens group*	103	+
84450	*Polypedilum (Uresipedilum) flavum*	411	+
84460	*Polypedilum (P.) fallax group*	154	
84540	*Polypedilum (Tripodura) scalaenum group*	51	+
85261	*Cladotanytarsus vanderwulpi group Type 1*	51	
85500	*Paratanytarsus sp*	257	+
85625	*Rheotanytarsus sp*	668	+
85800	*Tanytarsus sp*	257	+
85821	*Tanytarsus glabrescens group sp 7*	463	+
87540	*Hemerodromia sp*	9	
95100	*Physella sp*	2	+
96900	*Ferrissia sp*	20	+
98200	*Pisidium sp*		+
98600	*Sphaerium sp*		+

No. Quantitative Taxa: 46 Total Taxa: 76
No. Qualitative Taxa: 62 ICI: **44**
Number of Organisms: 5434 Qual EPT: 19

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: South Fork Great Miami River
Co. Rd. 38

Collection Date: 08/26/2008 River Code: 14-800 RM: 1.74

Taxa Code	Taxa	Quant/Qual
00401	*Spongillidae*	+
01320	*Hydra sp*	1
01801	*Turbellaria*	29 +
03040	*Fredericella sp*	+
03360	*Plumatella sp*	+
06201	*Hyalella azteca*	+
08601	*Hydrachnidia*	1
11120	*Baetis flavistriga*	222 +
11130	*Baetis intercalaris*	578 +
11155	*Iswaeon anoka*	+
11430	*Diphetor hageni*	+
13400	*Stenacron sp*	13 +
13500	*Maccaffertium sp*	2
13521	*Stenonema femoratum*	+
13590	*Maccaffertium vicarium*	+
17200	*Caenis sp*	+
21200	*Calopteryx sp*	4 +
22300	*Argia sp*	+
23909	*Boyeria vinosa*	+
43570	*Neoplea sp*	+
45300	*Sigara sp*	+
45400	*Trichocorixa sp*	+
45900	*Notonecta sp*	+
47600	*Sialis sp*	+
50315	*Chimarra obscura*	+
51400	*Nyctiophylax sp*	+
51600	*Polycentropus sp*	+
52200	*Cheumatopsyche sp*	88 +
52430	*Ceratopsyche morosa group*	348 +
52530	*Hydropsyche depravata group*	7
53800	*Hydroptila sp*	+
58505	*Helicopsyche borealis*	1 +
59100	*Ceraclea sp*	+
59410	*Nectopsyche diarina*	+
59500	*Oecetis sp*	4
59728	*Triaenodes marginatus*	+
60900	*Peltodytes sp*	+
65800	*Berosus sp*	+
68702	*Dubiraphia bivittata*	+
68708	*Dubiraphia vittata group*	+
68901	*Macronychus glabratus*	2 +
69225	*Optioservus fastiditus*	+
69400	*Stenelmis sp*	+
71100	*Hexatoma sp*	+
74100	*Simulium sp*	25 +
77500	*Conchapelopia sp*	49 +
77800	*Helopelopia sp*	+
78450	*Nilotanypus fimbriatus*	98
78655	*Procladius (Holotanypus) sp*	+
80351	*Corynoneura n.sp 1*	4
80370	*Corynoneura lobata*	96
81231	*Nanocladius (N.) crassicornus or N. (N.) "rectinervis"*	20
81825	*Rheocricotopus (Psilocricotopus) robacki*	29
82101	*Thienemanniella taurocapita*	72
82121	*Thienemanniella lobapodema*	+
82141	*Thienemanniella xena*	32
82200	*Tvetenia bavarica group*	10
83820	*Microtendipes "caelum" (sensu Simpson & Bode, 1980)*	+
83840	*Microtendipes pedellus group*	+
84300	*Phaenopsectra obediens group*	+
84450	*Polypedilum (Uresipedilum) flavum*	98 +
84460	*Polypedilum (P.) fallax group*	10
84750	*Stictochironomus sp*	+
85625	*Rheotanytarsus sp*	452
87540	*Hemerodromia sp*	178
96900	*Ferrissia sp*	131 +
98600	*Sphaerium sp*	+

No. Quantitative Taxa: 29 Total Taxa: 67
No. Qualitative Taxa: 51 ICI: **48**
Number of Organisms: 2604 Qual EPT: 18

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Liggitt Ditch
Twp. Rd. 49

Collection Date: 08/25/2008 River Code: 14-801 RM: 0.53

Taxa Code	Taxa	Quant/Qual
01320	*Hydra sp*	204 +
01801	*Turbellaria*	40 +
01900	*Nemertea*	4
03600	*Oligochaeta*	81 +
04935	*Erpobdella punctata punctata*	1
11125	*Pseudocloeon frondale*	+
11200	*Callibaetis sp*	+
11250	*Centroptilum sp (w/o hindwing pads)*	+
13400	*Stenacron sp*	16 +
13521	*Stenonema femoratum*	9 +
14950	*Leptophlebia sp or Paraleptophlebia sp*	5
17200	*Caenis sp*	34 +
21200	*Calopteryx sp*	10 +
22001	*Coenagrionidae*	8 +
22300	*Argia sp*	+
27500	*Somatochlora sp*	+
51400	*Nyctiophylax sp*	+
52200	*Cheumatopsyche sp*	3 +
52430	*Ceratopsyche morosa group*	+
53800	*Hydroptila sp*	23 +
59410	*Nectopsyche diarina*	4 +
65800	*Berosus sp*	33 +
66500	*Enochrus sp*	1
68702	*Dubiraphia bivittata*	+
68708	*Dubiraphia vittata group*	+
77120	*Ablabesmyia mallochi*	30
77500	*Conchapelopia sp*	31 +
77800	*Helopelopia sp*	53 +
78500	*Paramerina fragilis*	12
78655	*Procladius (Holotanypus) sp*	+
83040	*Dicrotendipes neomodestus*	6
83820	*Microtendipes "caelum" (sensu Simpson & Bode, 1980)*	12
83840	*Microtendipes pedellus group*	6
84155	*Paralauterborniella nigrohalteralis*	6 +
84210	*Paratendipes albimanus or P. duplicatus*	108 +
84300	*Phaenopsectra obediens group*	54
84450	*Polypedilum (Uresipedilum) flavum*	18 +
84470	*Polypedilum (P.) illinoense*	6 +
84540	*Polypedilum (Tripodura) scalaenum group*	+
85230	*Cladotanytarsus mancus group*	12
85400	*Micropsectra sp*	12
85500	*Paratanytarsus sp*	241 +
85625	*Rheotanytarsus sp*	18
85800	*Tanytarsus sp*	24
85821	*Tanytarsus glabrescens group sp 7*	24 +
85840	*Tanytarsus sepp*	18
87540	*Hemerodromia sp*	1
89560	*Hydrellia sp*	1
95100	*Physella sp*	+
98200	*Pisidium sp*	2
98600	*Sphaerium sp*	2 +

No. Quantitative Taxa: 39 Total Taxa: 51
No. Qualitative Taxa: 33 ICI: **48**
Number of Organisms: 1173 Qual EPT: 11

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: North Fork Great Miami River
Dunn Rd.

Collection Date: 07/08/2009 River Code: 14-802 RM: 6.31

Taxa Code	Taxa	Quant/Qual
01801	*Turbellaria*	+
05900	*Lirceus sp*	+
08250	*Orconectes (Procericambarus) rusticus*	+
08601	*Hydrachnidia*	+
11120	*Baetis flavistriga*	+
11130	*Baetis intercalaris*	+
11670	*Procloeon viridoculare*	+
13000	*Leucrocuta sp*	+
13521	*Stenonema femoratum*	+
17200	*Caenis sp*	+
22001	*Coenagrionidae*	+
22300	*Argia sp*	+
27500	*Somatochlora sp*	+
44501	*Corixidae*	+
52200	*Cheumatopsyche sp*	+
52430	*Ceratopsyche morosa group*	+
52530	*Hydropsyche depravata group*	+
53800	*Hydroptila sp*	+
59728	*Triaenodes marginatus*	+
60900	*Peltodytes sp*	+
65800	*Berosus sp*	+
68708	*Dubiraphia vittata group*	+
69225	*Optioservus fastiditus*	+
69400	*Stenelmis sp*	+
71900	*Tipula sp*	+
72700	*Anopheles sp*	+
74100	*Simulium sp*	+
77120	*Ablabesmyia mallochi*	+
77500	*Conchapelopia sp*	+
77800	*Helopelopia sp*	+
78655	*Procladius (Holotanypus) sp*	+
80351	*Corynoneura n.sp 1*	+
80370	*Corynoneura lobata*	+
80420	*Cricotopus (C.) bicinctus*	+
82820	*Cryptochironomus sp*	+
82885	*Cryptotendipes pseudotener*	+
83840	*Microtendipes pedellus group*	+
84210	*Paratendipes albimanus or P. duplicatus*	+
84300	*Phaenopsectra obediens group*	+
84440	*Polypedilum (Uresipedilum) aviceps*	+
84450	*Polypedilum (Uresipedilum) flavum*	+
84470	*Polypedilum (P.) illinoense*	+
84480	*Polypedilum (P.) laetum group*	+
84700	*Stenochironomus sp*	+
84750	*Stictochironomus sp*	+
85500	*Paratanytarsus sp*	+
85615	*Rheotanytarsus pellucidus*	+
85625	*Rheotanytarsus sp*	+
94400	*Fossaria sp*	+
95100	*Physella sp*	+
98600	*Sphaerium sp*	+

No. Quantitative Taxa: 0 Total Taxa: 51
No. Qualitative Taxa: 51 ICI:
Number of Organisms: 0 Qual EPT: 11

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: North Fork Great Miami River
at farm lane

Collection Date: 08/25/2008 River Code: 14-802 RM: 10.70

Taxa Code	Taxa	Quant/Qual	
01801	*Turbellaria*	14	+
03360	*Plumatella sp*	5	
04666	*Helobdella triserialis*		+
04685	*Placobdella ornata*	1	+
04935	*Erpobdella punctata punctata*		+
05900	*Lirceus sp*	2	+
08601	*Hydrachnidia*		+
11120	*Baetis flavistriga*		+
11130	*Baetis intercalaris*		+
11200	*Callibaetis sp*		+
13400	*Stenacron sp*	12	+
13521	*Stenonema femoratum*	3	+
17200	*Caenis sp*	2	+
21200	*Calopteryx sp*		+
22001	*Coenagrionidae*	2	+
22300	*Argia sp*	4	+
24900	*Gomphus sp*		+
43300	*Ranatra sp*		+
45100	*Palmacorixa sp*		+
45400	*Trichocorixa sp*		+
52200	*Cheumatopsyche sp*		+
52530	*Hydropsyche depravata group*		+
53501	*Hydroptilidae*		+
55300	*Ptilostomis sp*		+
57400	*Neophylax sp*		+
58505	*Helicopsyche borealis*		+
59410	*Nectopsyche diarina*	2	
60900	*Peltodytes sp*		+
64050	*Liodessus sp*		+
65800	*Berosus sp*	11	+
67500	*Laccobius sp*		+
67700	*Paracymus sp*		+
68702	*Dubiraphia bivittata*		+
68708	*Dubiraphia vittata group*		+
69400	*Stenelmis sp*	6	+
71300	*Limonia sp*		+
77001	*Tanypodinae*	2	
77120	*Ablabesmyia mallochi*	6	
77500	*Conchapelopia sp*	20	
77750	*Hayesomyia senata or Thienemannimyia norena*	14	
77800	*Helopelopia sp*	20	+
78140	*Labrundinia pilosella*	14	
78655	*Procladius (Holotanypus) sp*		+
80370	*Corynoneura lobata*	15	

Taxa Code	Taxa	Quant/Qual	
81231	*Nanocladius (N.) crassicornus or N. (N.) "rectinervis"*	2	
81240	*Nanocladius (N.) distinctus*	2	
82730	*Chironomus (C.) decorus group*	4	
83040	*Dicrotendipes neomodestus*	2	
83051	*Dicrotendipes simpsoni*	2	
83840	*Microtendipes pedellus group*	6	
84210	*Paratendipes albimanus or P. duplicatus*	37	+
84300	*Phaenopsectra obediens group*	2	
84315	*Phaenopsectra flavipes*	2	
84450	*Polypedilum (Uresipedilum) flavum*	8	+
84460	*Polypedilum (P.) fallax group*	16	
84540	*Polypedilum (Tripodura) scalaenum group*		+
84750	*Stictochironomus sp*		+
85500	*Paratanytarsus sp*	10	+
85615	*Rheotanytarsus pellucidus*	2	
85625	*Rheotanytarsus sp*	31	+
85802	*Tanytarsus curticornis*	2	
85821	*Tanytarsus glabrescens group sp 7*	10	+
85840	*Tanytarsus sepp*	4	
87400	*Stratiomys sp*		+
95100	*Physella sp*	30	+
96002	*Helisoma anceps anceps*	6	+
96280	*Planorbella (Pierosoma) trivolvis*		+
96900	*Ferrissia sp*	65	
98600	*Sphaerium sp*		+

No. Quantitative Taxa: 39 Total Taxa: 69
No. Qualitative Taxa: 48 ICI: **34**
Number of Organisms: 398 Qual EPT: 12

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: North Fork Great Miami River
Dunn Rd.

Collection Date: 07/16/2008 River Code: 14-802 RM: 6.31

Taxa Code	Taxa	Quant/Qual
01801	*Turbellaria*	+
03600	*Oligochaeta*	+
04685	*Placobdella ornata*	+
05900	*Lirceus sp*	+
08601	*Hydrachnidia*	+
17200	*Caenis sp*	+
22001	*Coenagrionidae*	+
52200	*Cheumatopsyche sp*	+
52430	*Ceratopsyche morosa group*	+
69400	*Stenelmis sp*	+
77500	*Conchapelopia sp*	+
77800	*Helopelopia sp*	+
81825	*Rheocricotopus (Psilocricotopus) robacki*	+
82820	*Cryptochironomus sp*	+
84470	*Polypedilum (P.) illinoense*	+
84750	*Stictochironomus sp*	+
96900	*Ferrissia sp*	+
98600	*Sphaerium sp*	+

Taxa Code	Taxa	Quant/Qual

No. Quantitative Taxa: 0 Total Taxa: 18
No. Qualitative Taxa: 18 ICI:
Number of Organisms: 0 Qual EPT: 3

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Van Horn Creek
St. Rt. 366

Collection Date: 07/17/2008 River Code: 14-804 RM: 0.97

Taxa Code	Taxa	Quant/Qual
01801	*Turbellaria*	+
03600	*Oligochaeta*	+
04682	*Placobdella montifera*	+
05900	*Lirceus sp*	+
08250	*Orconectes (Procericambarus) rusticus*	+
08601	*Hydrachnidia*	+
11120	*Baetis flavistriga*	+
11130	*Baetis intercalaris*	+
17200	*Caenis sp*	+
22001	*Coenagrionidae*	+
22300	*Argia sp*	+
23909	*Boyeria vinosa*	+
52200	*Cheumatopsyche sp*	+
53501	*Hydroptilidae*	+
65800	*Berosus sp*	+
67000	*Helophorus sp*	+
68702	*Dubiraphia bivittata*	+
68707	*Dubiraphia quadrinotata*	+
69400	*Stenelmis sp*	+
74100	*Simulium sp*	+
78140	*Labrundinia pilosella*	+
80420	*Cricotopus (C.) bicinctus*	+
80430	*Cricotopus (C.) tremulus group*	+
81632	*Parakiefferiella n.sp 2*	+
81650	*Parametriocnemus sp*	+
82200	*Tvetenia bavarica group*	+
82820	*Cryptochironomus sp*	+
83040	*Dicrotendipes neomodestus*	+
84315	*Phaenopsectra flavipes*	+
84450	*Polypedilum (Uresipedilum) flavum*	+
84470	*Polypedilum (P.) illinoense*	+
84750	*Stictochironomus sp*	+
85500	*Paratanytarsus sp*	+
85821	*Tanytarsus glabrescens group sp 7*	+
95100	*Physella sp*	+
96002	*Helisoma anceps anceps*	+
96280	*Planorbella (Pierosoma) trivolvis*	+
98600	*Sphaerium sp*	+

Taxa Code	Taxa	Quant/Qual

No. Quantitative Taxa: 0 Total Taxa: 38
No. Qualitative Taxa: 38 ICI:
Number of Organisms: 0 Qual EPT: 5

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Trib. to S. Fk. Great Miami R. (RM 7.24)
St. Rt. 638

Collection Date: 07/16/2008 River Code: 14-805 RM: 0.55

Taxa Code	Taxa	Quant/Qual
01801	*Turbellaria*	+
03360	*Plumatella sp*	+
03600	*Oligochaeta*	+
06201	*Hyalella azteca*	+
08601	*Hydrachnidia*	+
11120	*Baetis flavistriga*	+
11130	*Baetis intercalaris*	+
13400	*Stenacron sp*	+
13521	*Stenonema femoratum*	+
22001	*Coenagrionidae*	+
22300	*Argia sp*	+
23600	*Aeshna sp*	+
23909	*Boyeria vinosa*	+
45100	*Palmacorixa sp*	+
47600	*Sialis sp*	+
51400	*Nyctiophylax sp*	+
52200	*Cheumatopsyche sp*	+
52530	*Hydropsyche depravata group*	+
53501	*Hydroptilidae*	+
58505	*Helicopsyche borealis*	+
59410	*Nectopsyche diarina*	+
60900	*Peltodytes sp*	+
65800	*Berosus sp*	+
68702	*Dubiraphia bivittata*	+
68707	*Dubiraphia quadrinotata*	+
68708	*Dubiraphia vittata group*	+
68901	*Macronychus glabratus*	+
69225	*Optioservus fastiditus*	+
69400	*Stenelmis sp*	+
71100	*Hexatoma sp*	+
72600	*Aedes sp*	+
74100	*Simulium sp*	+
77800	*Helopelopia sp*	+
78140	*Labrundinia pilosella*	+
80370	*Corynoneura lobata*	+
80420	*Cricotopus (C.) bicinctus*	+
82141	*Thienemanniella xena*	+
84440	*Polypedilum (Uresipedilum) aviceps*	+
84450	*Polypedilum (Uresipedilum) flavum*	+
84750	*Stictochironomus sp*	+
85500	*Paratanytarsus sp*	+
85615	*Rheotanytarsus pellucidus*	+
87540	*Hemerodromia sp*	+
95100	*Physella sp*	+
96280	*Planorbella (Pierosoma) trivolvis*	+
98600	*Sphaerium sp*	+

No. Quantitative Taxa: 0
No. Qualitative Taxa: 46
Number of Organisms: 0

Total Taxa: 46
ICI:
Qual EPT: 10

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Trib. to S. Fk. Great Miami R. (RM 5.27)
Co. Rd. 96

Collection Date: 08/07/2008 River Code: 14-806 RM: 0.49

Taxa Code	Taxa	Quant/Qual
00653	*Eunapius fragilis*	+
03360	*Plumatella sp*	+
03600	*Oligochaeta*	+
06201	*Hyalella azteca*	+
08250	*Orconectes (Procericambarus) rusticus*	+
08601	*Hydrachnidia*	+
11120	*Baetis flavistriga*	+
11130	*Baetis intercalaris*	+
11200	*Callibaetis sp*	+
11245	*Centroptilum sp*	+
13400	*Stenacron sp*	+
13521	*Stenonema femoratum*	+
13590	*Maccaffertium vicarium*	+
17200	*Caenis sp*	+
21200	*Calopteryx sp*	+
22001	*Coenagrionidae*	+
23600	*Aeshna sp*	+
23909	*Boyeria vinosa*	+
47600	*Sialis sp*	+
49101	*Sisyridae*	+
50301	*Chimarra aterrima*	+
51600	*Polycentropus sp*	+
52200	*Cheumatopsyche sp*	+
52430	*Ceratopsyche morosa group*	+
52530	*Hydropsyche depravata group*	+
58505	*Helicopsyche borealis*	+
59150	*Ceraclea resurgens group*	+
59580	*Oecetis persimilis*	+
63300	*Hydroporini*	+
68130	*Helichus sp*	+
69400	*Stenelmis sp*	+
72700	*Anopheles sp*	+
74100	*Simulium sp*	+
74501	*Ceratopogonidae*	+
77120	*Ablabesmyia mallochi*	+
77500	*Conchapelopia sp*	+
77750	*Hayesomyia senata or Thienemannimyia norena*	+
77800	*Helopelopia sp*	+
78140	*Labrundinia pilosella*	+
78402	*Natarsia baltimoreus*	+
78450	*Nilotanypus fimbriatus*	+
78655	*Procladius (Holotanypus) sp*	+
81825	*Rheocricotopus (Psilocricotopus) robacki*	+
82130	*Thienemanniella similis*	+
82141	*Thienemanniella xena*	+
82820	*Cryptochironomus sp*	+
83003	*Dicrotendipes fumidus*	+
83820	*Microtendipes "caelum" (sensu Simpson & Bode, 1980)*	+
83840	*Microtendipes pedellus group*	+
84210	*Paratendipes albimanus or P. duplicatus*	+
84300	*Phaenopsectra obediens group*	+
84440	*Polypedilum (Uresipedilum) aviceps*	+
84450	*Polypedilum (Uresipedilum) flavum*	+
84470	*Polypedilum (P.) illinoense*	+
84480	*Polypedilum (P.) laetum group*	+
84750	*Stictochironomus sp*	+
85625	*Rheotanytarsus sp*	+
85800	*Tanytarsus sp*	+
85821	*Tanytarsus glabrescens group sp 7*	+
87540	*Hemerodromia sp*	+
94400	*Fossaria sp*	+
95100	*Physella sp*	+
96900	*Ferrissia sp*	+

No. Quantitative Taxa: 0 Total Taxa: 63
No. Qualitative Taxa: 63 ICI:
Number of Organisms: 0 Qual EPT: 16

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Miami-Erie Canal
at mouth, at Fort Loramie

Collection Date: 09/03/2008 River Code: 14-999 RM: 0.10

Taxa Code	Taxa	Quant/Qual
01320	*Hydra sp*	42 +
01801	*Turbellaria*	253 +
03360	*Plumatella sp*	1
11200	*Callibaetis sp*	+
17200	*Caenis sp*	+
21300	*Hetaerina sp*	1 +
22001	*Coenagrionidae*	+
22300	*Argia sp*	10 +
28955	*Plathemis lydia*	+
45300	*Sigara sp*	+
52200	*Cheumatopsyche sp*	124 +
52430	*Ceratopsyche morosa group*	+
52530	*Hydropsyche depravata group*	16 +
53501	*Hydroptilidae*	1
60900	*Peltodytes sp*	+
65800	*Berosus sp*	3 +
69400	*Stenelmis sp*	1 +
74100	*Simulium sp*	2 +
77500	*Conchapelopia sp*	+
77750	*Hayesomyia senata or Thienemannimyia norena*	238 +
78450	*Nilotanypus fimbriatus*	16
78655	*Procladius (Holotanypus) sp*	+
80420	*Cricotopus (C.) bicinctus*	34 +
80430	*Cricotopus (C.) tremulus group*	136
82130	*Thienemanniella similis*	16
82141	*Thienemanniella xena*	96
82820	*Cryptochironomus sp*	+
83003	*Dicrotendipes fumidus*	+
83040	*Dicrotendipes neomodestus*	1290 +
83300	*Glyptotendipes (G.) sp*	68
84450	*Polypedilum (Uresipedilum) flavum*	475 +
84470	*Polypedilum (P.) illinoense*	+
84540	*Polypedilum (Tripodura) scalaenum group*	305 +
84750	*Stictochironomus sp*	+
84960	*Pseudochironomus sp*	102 +
85230	*Cladotanytarsus mancus group*	+
85500	*Paratanytarsus sp*	136
85625	*Rheotanytarsus sp*	716 +
85821	*Tanytarsus glabrescens group sp 7*	577 +
85840	*Tanytarsus sepp*	+
87540	*Hemerodromia sp*	28 +
97601	*Corbicula fluminea*	+
99100	*Pyganodon grandis*	+

Taxa Code	Taxa	Quant/Qual

No. Quantitative Taxa: 26 Total Taxa: 43
No. Qualitative Taxa: 35 ICI: **34**
Number of Organisms: 4687 Qual EPT: 5