



State of Ohio
Environmental Protection Agency

Division of Surface Water

Appendices to

**Biological and Water Quality
Study of the White Oak Creek
Watershed, 2006**

Highland and Brown Counties, Ohio

December 31, 2008

Ted Strickland, Governor
Chris Korleski, Director

**Appendices to
Biological and Water Quality Study of
The White Oak Creek Watershed
2006**

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Prepared by:

State of Ohio Environmental Protection Agency
Division of Surface Water
Lazarus Government Center
50 W. Town Street, Suite 700
Columbus, Ohio 43215
Mail to:
P.O. Box 1049, Columbus, Ohio 43216-1049

Ted Strickland
Governor, State of Ohio
Chris Korleski
Director, Ohio Environmental Protection Agency

Appendices

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Appendix A-1

Summary tables of the inorganic water chemistry sampling results
in the White Oak Creek study area, 2006.

Appendix Table A-1 White Oak Creek Watershed Inorganic Water Chemistry Sampling Results (2006)

Site Location: # 1 WHITE OAK CK @ NEW HOPE WHITE OAK STATION RD

WAU 05090201-10 02

River Mile: 27.55 Storet ID: X02K19

Latitude/Longitude: 38.9901 / -83.8896

Drainage Area (mi2): 150

County: Brown

Ecoregion: IP

USGS Quad: Hamersville

Date Collected	7/26/2006	8/2/2006	8/30/2006	9/20/2006	9/27/2006
Time	1545	1340	1430	1325	1345
Temp (C)	28.62	30.44	24.05	17.38	17.26
D.O. (mg/l)	9.72	6.78	6.32	7.16	7.39
D.O. (% sat)	125.6	90.5	75.2	74.7	76.9
pH (fld) SU	8.23	7.87	7.92	7.88	7.75
Sp Cond (fld)(umhos/cm)	298	385	426	428	397
Sp Cond (lab)(umhos/cm)	277	357	411	415	386
Acidity (mg/l)	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Alkalinity (mg/l)	114	137	184	126	114
Ammonia-N (mg/l)	< 0.050	< 0.050	< 0.050	0.054	0.062
BOD5 (mg/l)	4.0	< 2.0	< 2.0	< 2.0	< 2.0
COD (mg/l)	18	21	< 10	11	18
Chloride (mg/l)	13.2	21.0	24.7	14.9	15.2
Nitrate-nitrite-N (mg/l)	0.26	0.22	< 0.10	0.48	0.72
Nitrite-N (mg/l)	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TKN (mg/l)	0.29	0.28	0.32	0.46	0.64
Phosphorus-T (mg/l)	0.180	0.170	0.134	0.161	0.189
Sulfate (mg/l)	18.4	20.3	26.7	29.9	25.1
TSS (mg/l)	16	8	15	< 5	6
TDS (mg/l)	198	224	232	252	246
Aluminum-T (µg/l)	402	204	< 200	< 200	462
Arsenic-T (µg/l)	3.5	4.0	4.5	< 2.0	2.1
Barium-T (µg/l)	41	50	46	59	57
Cadmium-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Calcium-T (mg/l)	36	46	46	58	54
Chromium-T (µg/l)	< 30	< 30	< 30	< 30	< 30
Copper-T (µg/l)	< 10	< 10	< 10	< 10	< 10
Iron-T (µg/l)	581	268	207	411	750
Lead-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Magnesium-T (mg/l)	10	14	17	15	14
Manganese-T (µg/l)	147	244	58	102	87
Mercury-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Nickel-T (µg/l)	< 40	< 40	< 40	< 40	< 40
Potassium-T (mg/l)	7	7	5	6	7
Selenium-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Sodium-T (mg/l)	6	9	10	7	7
Strontium-T (µg/l)	94	131	132	136	127
Zinc-T (µg/l)	< 10	< 10	< 10	< 10	< 10
Hardness (mg/l CaCO3)	131	172	185	206	192

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

UJ - Analyte not detected above sample quantitation limit (QL).

RC - Result rejected; poor correlation with co-analyte

Appendix Table A-1 White Oak Creek Watershed Inorganic Water Chemistry Sampling Results (2006)

Site Location: # 2 WHITE OAK CK @ BETHEL NEW HOPE RD				WAU 05090201-10 02	
River Mile: 20.65	Storet ID: X02K11				
Latitude/Longitude: 38.9594 / -83.9157	Drainage Area (mi2): 188	County: Brown	Ecoregion: IP	USGS Quad: Hamersville	

Date Collected	7/26/2006	8/2/2006	8/30/2006	9/20/2006	9/27/2006
Time	1215	1035	1050	1010	1050
Temp (C)	27.12	27.41	24.32	16.54	16.73
D.O. (mg/l)	13.08	7.78	8.69	10.34	9.06
D.O. (% sat)	164.6	98.5	104	106.1	93.3
pH (fld) SU	8.82	8.17	8.26	8.3	8.14
Sp Cond (fld)(umhos/cm)	341	282	486	390	346
Sp Cond (lab)(umhos/cm)	324	301	482	357	334
Acidity (mg/l)	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Alkalinity (mg/l)	121	107	157	102	98.1
Ammonia-N (mg/l)	< 0.050	0.056	< 0.050	< 0.050	0.053
BOD5 (mg/l)	2.0	< 2.0	< 2.0	< 2.0	< 2.0
COD (mg/l)	13	21	< 10	20	27
Chloride (mg/l)	19.3	18.8	44.6	16.8	13.7
Nitrate-nitrite-N (mg/l)	0.34	0.35	2.22	0.75	2.16
Nitrite-N (mg/l)	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TKN (mg/l)	0.73	0.38	0.77	0.46	0.70
Phosphorus-T (mg/l)	0.179	0.221	0.189	0.184	0.212
Sulfate (mg/l)	22.9	21.4	46.9	31.0	23.4
TSS (mg/l)	11	5	< 5	< 5	< 5
TDS (mg/l)	230	196	286	232	218
Aluminum-T (µg/l)	< 200	< 200	< 200	< 200	523
Arsenic-T (µg/l)	3.2	3.5	4.6	2.5	2.2
Barium-T (µg/l)	40	37	45	46	49
Cadmium-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Calcium-T (mg/l)	40	35	44	48	46
Chromium-T (µg/l)	< 30	< 30	< 30	< 30	< 30
Copper-T (µg/l)	< 10	< 10	< 10	< 10	< 10
Iron-T (µg/l)	230	224	112	334	724
Lead-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Magnesium-T (mg/l)	13	11	16	12	12
Manganese-T (µg/l)	48	55	32	31	43
Mercury-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Nickel-T (µg/l)	< 40	< 40	< 40	< 40	< 40
Potassium-T (mg/l)	7	7	8	7	7
Selenium-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Sodium-T (mg/l)	9	8	24	7	6
Strontium-T (µg/l)	125	118	190	121	109
Zinc-T (µg/l)	< 10	< 10	< 10	< 10	< 10
Hardness (mg/l CaCO3)	153	133	176	169	164

B - Result estimated, analyte detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time
 UJ - Analyte not detected above sample quantitation limit (QL). RC - Result rejected; poor correlation with co-analyte

Appendix Table A-1 White Oak Creek Watershed Inorganic Water Chemistry Sampling Results (2006)

Site Location: # 3 WHITE OAK CK @ MCCALL RD

WAU 05090201-10 02

River Mile: 16.57 Storet ID: X02K10

Latitude/Longitude: 38.9261 / -83.9254

Drainage Area (mi2): 190

County: Brown

Ecoregion: IP

USGS Quad: Hamersville

Date Collected	7/26/2006	8/2/2006	8/30/2006	9/20/2006	9/27/2006
Time	1045	0945	1000	0915	0945
Temp (C)	25.32	27.76	24.5	17.18	16.97
D.O. (mg/l)	9.15	6.63	6.73	8.47	8.68
D.O. (% sat)	111.5	84.4	80.8	88	89.9
pH (fld) SU	8.37	7.97	8.06	8.13	8.08
Sp Cond (fld)(umhos/cm)	431	374	391	360	328
Sp Cond (lab)(umhos/cm)	399	349	378	344	317
Acidity (mg/l)	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Alkalinity (mg/l)	153	128	132	99.4	92.6
Ammonia-N (mg/l)	< 0.050	0.064	< 0.050	< 0.050	0.054
BOD5 (mg/l)	3.7	< 2.0	< 2.0	< 2.0	2.0
COD (mg/l)	16	21	< 10	17	16
Chloride (mg/l)	28.0	23.7	32.7	14.3	13.5
Nitrate-nitrite-N (mg/l)	0.48	0.23	< 0.10	0.51	0.79 J
Nitrite-N (mg/l)	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TKN (mg/l)	0.64	0.34	0.41	0.40	0.53
Phosphorus-T (mg/l)	0.188	0.183	0.160	0.159	0.208
Sulfate (mg/l)	26.8	20.6	33.2	27.4	22.1
TSS (mg/l)	21	9	11	< 5	5
TDS (mg/l)	280	224	210	224	200
Aluminum-T (µg/l)	279	< 200	528	203	515
Arsenic-T (µg/l)	3.3	3.5	3.6	< 2.0	2.0
Barium-T (µg/l)	52	45	47	47	45
Cadmium-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Calcium-T (mg/l)	51	43	37	49	44
Chromium-T (µg/l)	< 30	< 30	< 30	< 30	< 30
Copper-T (µg/l)	< 10	< 10	< 10	< 10	< 10
Iron-T (µg/l)	403	247	718	348	675
Lead-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Magnesium-T (mg/l)	16	14	14	11	11
Manganese-T (µg/l)	138	66	140	35	42
Mercury-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Nickel-T (µg/l)	< 40	< 40	< 40	< 40	< 40
Potassium-T (mg/l)	8	7	7	7	7
Selenium-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Sodium-T (mg/l)	11	10	16	7	6
Strontium-T (µg/l)	164	145	145	125	109
Zinc-T (µg/l)	< 10	< 10	< 10	< 10	< 10
Hardness (mg/l CaCO3)	193	165	150	168	155

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

UJ - Analyte not detected above sample quantitation limit (QL).

RC - Result rejected; poor correlation with co-analyte

Appendix Table A-1 White Oak Creek Watershed Inorganic Water Chemistry Sampling Results (2006)

Site Location: # 4 WHITE OAK CK @ END OF MILLER RING RD

WAU 05090201-10 02

River Mile: 12.4 Storet ID: X02K04

Latitude/Longitude: 38.8918 / -83.92027

Drainage Area (mi2): 213

County: Brown

Ecoregion: IP

USGS Quad: Hamersville

Date Collected	7/26/2006	8/2/2006	8/30/2006	9/20/2006	9/27/2006
Time	1405	1240	1300	1315	1330
Temp (C)		30.85	24.49	17.67	18.42
D.O. (mg/l)		6.08	6.83	10.74	13.35
D.O. (% sat)		81.7	81.9	112.8	142.3
pH (fld) SU		8.32	8.16	8.44	8.22
Sp Cond (fld)(umhos/cm)		413.2	358.6	368.8	340.8
Sp Cond (lab)(umhos/cm)	396	388	337	362	325
Acidity (mg/l)	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Alkalinity (mg/l)	146	139	133	108	99.8
Ammonia-N (mg/l)	< 0.050	0.062	0.083	< 0.050	0.060
BOD5 (mg/l)	4.4	< 2.0	< 2.0	< 2.0	< 2.0
COD (mg/l)	18	18	< 10	20	21
Chloride (mg/l)	28.0	24.6	22.9	13.9	13.6
Nitrate-nitrite-N (mg/l)	< 0.10	0.14	0.14	0.32	0.53
Nitrite-N (mg/l)	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TKN (mg/l)	1.41	0.47	0.35	0.56	0.80
Phosphorus-T (mg/l)	0.162	0.148	0.136	0.152	0.198
Sulfate (mg/l)	26.5	24.5	31.7	31.2	21.5
TSS (mg/l)	12	6	5	< 5	5
TDS (mg/l)	276	232	196	236	208
Aluminum-T (µg/l)	223	< 200	< 200	< 200	441
Arsenic-T (µg/l)	3.9	3.9	4.0	< 2.0	< 2.0
Barium-T (µg/l)	51	49	41	43	45
Cadmium-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Calcium-T (mg/l)	49	46	37	52	48
Chromium-T (µg/l)	< 30	< 30	< 30	< 30	< 30
Copper-T (µg/l)	< 10	< 10	< 10	< 10	< 10
Iron-T (µg/l)	335	207	267	256	612
Lead-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Magnesium-T (mg/l)	15	15	12	12	11
Manganese-T (µg/l)	132	59	44	29	38
Mercury-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Nickel-T (µg/l)	< 40	< 40	< 40	< 40	< 40
Potassium-T (mg/l)	8	7	6	7	7
Selenium-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Sodium-T (mg/l)	11	10	11	7	6
Strontium-T (µg/l)	159	160	135	141	123
Zinc-T (µg/l)	< 10	< 10	< 10	11	10 B
Hardness (mg/l CaCO3)	184	177	142	179	165

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

UJ - Analyte not detected above sample quantitation limit (QL).

RC - Result rejected; poor correlation with co-analyte

Appendix Table A-1 White Oak Creek Watershed Inorganic Water Chemistry Sampling Results (2006)

Site Location: # 5 WHITE OAK CK ADJ SR 221 DST GEORGETOWN WWTP DAM					WAU 05090201-10 02	
River Mile: 7.54	Storet ID: 609110					
Latitude/Longitude: 38.8581 / -83.9286	Drainage Area (mi2): 218	County: Brown	Ecoregion: IP	USGS Quad: Higgensport		

Date Collected	7/26/2006	8/2/2006	8/30/2006	9/20/2006	9/27/2006
Time	1110	1015	1025	1050	1040
Temp (C)		29.62	25.65	17.99	17.07
D.O. (mg/l)		5.47	6.82	9.52	12.75
D.O. (% sat)		72	83.5	100.6	132.2
pH (fld) SU		8.21	8.2	8.28	8.09
Sp Cond (fld)(umhos/cm)		438.3	404.8	382.5	348.4
Sp Cond (lab)(umhos/cm)	414	417	390	384	334
Acidity (mg/l)	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Alkalinity (mg/l)	156	146	147	115	101
Ammonia-N (mg/l)	< 0.050	0.063	0.062	< 0.050	< 0.050
BOD5 (mg/l)	2.1	< 2.0	< 2.0	< 2.0	< 2.0
COD (mg/l)	18	15	< 10	11	16
Chloride (mg/l)	28.5	28.5	30.0	13.7	13.1
Nitrate-nitrite-N (mg/l)	< 0.10	1.59	0.17	0.31	0.63
Nitrite-N (mg/l)	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TKN (mg/l)	0.56	0.38	0.51	0.73	0.53
Phosphorus-T (mg/l)	0.171	0.130	0.123	0.141	0.173
Sulfate (mg/l)	28.1	25.1	34.2	32.6	25.5
TSS (mg/l)	11	6	6	< 5	< 5
TDS (mg/l)	282	262	214	238	212
Aluminum-T (µg/l)	229	< 200	< 200	< 200	395
Arsenic-T (µg/l)	4.4	4.2	3.0	< 2.0	< 2.0
Barium-T (µg/l)	52	49	43	44	45
Cadmium-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Calcium-T (mg/l)	53	50	41	55	49
Chromium-T (µg/l)	< 30	< 30	< 30	< 30	< 30
Copper-T (µg/l)	< 10	< 10	< 10	< 10	< 10
Iron-T (µg/l)	381	267	255	202	542
Lead-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Magnesium-T (mg/l)	16	15	12	11	10
Manganese-T (µg/l)	119	75	55	28	35
Mercury-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Nickel-T (µg/l)	< 40	< 40	< 40	< 40	< 40
Potassium-T (mg/l)	8	8	6	6	7
Selenium-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Sodium-T (mg/l)	12	12	14	7	6
Strontium-T (µg/l)	180	185	158	158	134
Zinc-T (µg/l)	< 10	< 10	< 10	25	< 10
Hardness (mg/l CaCO3)	198	187	152	183	164

B - Result estimated, analyte detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time
 UJ - Analyte not detected above sample quantitation limit (QL). RC - Result rejected; poor correlation with co-analyte

Appendix Table A-1 White Oak Creek Watershed Inorganic Water Chemistry Sampling Results (2006)

Site Location: # 6	WHITE OAK CK ADJ SR 221 (ACCESS FROM DOCK AT 6087 SR 221)	WAU 05090201-10 03
River Mile: 2.3	Storet ID: X02K02	
Latitude/Longitude: 38.8059 / -83.9573	Drainage Area (mi2): 232	County: Brown
		Ecoregion: IP
		USGS Quad: Higgensport

Date Collected	7/26/2006	8/2/2006	8/30/2006	9/20/2006	9/27/2006
Time	1030	0950	1000	1015	0950
Temp (C)		30.31	24.34	18.21	16.67
D.O. (mg/l)		6.1	6.65	10.64	12.5
D.O. (% sat)		81.3	79.6	113	128.6
pH (fld) SU		8.46	8.07	8.21	8
Sp Cond (fld)(umhos/cm)		474.1	456.6	423.4	374.6
Sp Cond (lab)(umhos/cm)	431	451	445	424	366
Acidity (mg/l)	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Alkalinity (mg/l)	158	161	175	124	108
Ammonia-N (mg/l)	< 0.050	0.064	0.108	< 0.050	0.059
BOD5 (mg/l)	4.7	2.3	< 2.0	< 2.0	< 2.0
COD (mg/l)	13	21	< 10	11	18
Chloride (mg/l)	29.8	29.3	32.5	18.4	14.5
Nitrate-nitrite-N (mg/l)	< 0.10	0.16	0.67	0.61	0.82
Nitrite-N (mg/l)	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TKN (mg/l)	0.37	0.32	0.56	0.55	0.69
Phosphorus-T (mg/l)	0.373	0.224	0.556	0.198	0.222
Sulfate (mg/l)	29.9	29.6	37.0	33.6	27.1
TSS (mg/l)	21	17	20	< 5	5
TDS (mg/l)	298	272	264	260	230
Aluminum-T (µg/l)	332	354	386	< 200	381
Arsenic-T (µg/l)	3.4	2.9	3.6	< 2.0	< 2.0
Barium-T (µg/l)	51	46	43	45	44
Cadmium-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Calcium-T (mg/l)	56	58	49	61	53
Chromium-T (µg/l)	< 30	< 30	< 30	< 30	< 30
Copper-T (µg/l)	< 10	< 10	< 10	< 10	< 10
Iron-T (µg/l)	527	543	622	178	508
Lead-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Magnesium-T (mg/l)	15	14	12	12	11
Manganese-T (µg/l)	159	78	95	38	45
Mercury-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Nickel-T (µg/l)	< 40	< 40	< 40	< 40	< 40
Potassium-T (mg/l)	8	7	6	7	7
Selenium-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Sodium-T (mg/l)	13	15	17	11	8
Strontium-T (µg/l)	184	190	168	176	148
Zinc-T (µg/l)	< 10	< 10	14	21	11 B
Hardness (mg/l CaCO3)	202	202	172	202	178

B - Result estimated, analyte detected in blank J - Analyte identified, value estimated PT - Result estimated, sample was not analyzed within required holding time
 UJ - Analyte not detected above sample quantitation limit (QL). RC - Result rejected; poor correlation with co-analyte

Appendix Table A-1 White Oak Creek Watershed Inorganic Water Chemistry Sampling Results (2006)

Site Location: # 7 N FK WHITE OAK CK @ COCHRAN RD

WAU 05090201-09 03

River Mile: 19.67 Storet ID: X02K28

Latitude/Longitude: 39.1708 / -83.7583

Drainage Area (mi²): 4.4

County: Highland

Ecoregion: IP

USGS Quad: Lynchburg

Date Collected	7/27/2006	8/3/2006	8/31/2006	9/21/2006	9/28/2006
Time	1315	1230	1240	1430	1410
Temp (C)		27.66	21.81	16.7	16.96
D.O. (mg/l)		6.26	5.44	11.88	9.9
D.O. (% sat)		79.6	62	122.1	102.5
pH (fld) SU		7.59	7.54	7.9	7.77
Sp Cond (fld)(umhos/cm)		392.9	181.1	434	575.6
Sp Cond (lab)(umhos/cm)	392	377	195	419	541
Acidity (mg/l)	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Alkalinity (mg/l)	159	153	87.4	113	155
Ammonia-N (mg/l)	< 0.050	0.061	0.313	0.081	0.104
BOD5 (mg/l)	5.1	3.2	8.3	3.0	< 2.0
COD (mg/l)	25	21	22	17	10
Chloride (mg/l)	22.5	22.1	8.4	18.5	24.3
Nitrate-nitrite-N (mg/l)	< 0.10	< 0.10	< 0.10	0.23	0.89
Nitrite-N (mg/l)	< 0.020	< 0.020	< 0.020	0.027	0.020
TKN (mg/l)	0.57	0.26	0.99	0.57	0.45
Phosphorus-T (mg/l)	0.095	0.090	0.365	0.070	0.079
Sulfate (mg/l)	18.0	11.1	9.4	43.9	49.1
TSS (mg/l)	19	39	11	13	42
TDS (mg/l)	246	196	140	272	344
Aluminum-T (µg/l)	396	1110	411	452	1010
Arsenic-T (µg/l)	5.4	7.8	8.7	2.4	< 2.0
Barium-T (µg/l)	49	58	49	69	81
Cadmium-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Calcium-T (mg/l)	47	46	22	55	76
Chromium-T (µg/l)	< 30	< 30	< 30	< 30	< 30
Copper-T (µg/l)	< 10	< 10	< 10	< 10	< 10
Iron-T (µg/l)	837	1770	1560	949	1320
Lead-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Magnesium-T (mg/l)	16	17	5	15	22
Manganese-T (µg/l)	766	815	1460	434	260
Mercury-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Nickel-T (µg/l)	< 40	< 40	< 40	< 40	< 40
Potassium-T (mg/l)	5	5	10	7	5
Selenium-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Sodium-T (mg/l)	9	9	< 5	9	12
Strontium-T (µg/l)	89	86	39	88	128
Zinc-T (µg/l)	< 10	< 10	10	20	< 10
Hardness (mg/l CaCO ₃)	183	185	76	199	280

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

UJ - Analyte not detected above sample quantitation limit (QL).

RC - Result rejected; poor correlation with co-analyte

Appendix Table A-1 White Oak Creek Watershed Inorganic Water Chemistry Sampling Results (2006)

Site Location: # 8 N FK WHITE OAK CK @ DAWSON RD

WAU 05090201-09 03

River Mile: 18.1 Storet ID: X02K27

Latitude/Longitude: 39.1657 / -83.781

Drainage Area (mi2): 7.2

County: Highland

Ecoregion: IP

USGS Quad: Lynchburg

Date Collected	7/27/2006	8/3/2006	8/31/2006	9/21/2006	9/28/2006
Time	1245	1200	1215	1400	1330
Temp (C)		29.21	21	18.09	16.15
D.O. (mg/l)		8.74	7.02	19.77	11.32
D.O. (% sat)		114.2	78.8	209.4	115.2
pH (fld) SU		7.89	7.92	8.59	7.95
Sp Cond (fld)(umhos/cm)		447.3	295.4	407.1	457.3
Sp Cond (lab)(umhos/cm)	424	427	282	401	430
Acidity (mg/l)	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Alkalinity (mg/l)	152	138	123	110	121
Ammonia-N (mg/l)	0.106	0.084	0.110	< 0.050	0.058
BOD5 (mg/l)	< 2.0	< 2.0	3.2	< 2.0	4.6
COD (mg/l)	19	15	19	14	18
Chloride (mg/l)	31.9	35.2	13.9	19.7	20.6
Nitrate-nitrite-N (mg/l)	< 0.10	< 0.10	0.17	0.11	0.99
Nitrite-N (mg/l)	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TKN (mg/l)	0.54	0.73	0.56	1.04	2.28
Phosphorus-T (mg/l)	0.107	0.118	0.228	0.089	0.319
Sulfate (mg/l)	25.4	26.9	20.5	41.3	39.1
TSS (mg/l)	10	33	5	< 5	17
TDS (mg/l)	272	218	190	254	294
Aluminum-T (µg/l)	< 200	< 200	325	< 200	1060
Arsenic-T (µg/l)	2.8	4.2	3.8	< 2.0	2.3
Barium-T (µg/l)	47	41	39	46	58
Cadmium-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Calcium-T (mg/l)	44	45	36	53	58
Chromium-T (µg/l)	< 30	< 30	< 30	< 30	< 30
Copper-T (µg/l)	< 10	< 10	< 10	< 10	< 10
Iron-T (µg/l)	269	246	504	232	1240
Lead-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Magnesium-T (mg/l)	20	22	9	15	16
Manganese-T (µg/l)	453	341	158	48	54
Mercury-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Nickel-T (µg/l)	< 40	< 40	< 40	< 40	< 40
Potassium-T (mg/l)	5	5	9	7	7
Selenium-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Sodium-T (mg/l)	10	9	< 5	8	9
Strontium-T (µg/l)	92	96	60	85	99
Zinc-T (µg/l)	< 10	< 10	< 10	61	< 10
Hardness (mg/l CaCO3)	192	203	127	194	211

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

UJ - Analyte not detected above sample quantitation limit (QL).

RC - Result rejected; poor correlation with co-analyte

Appendix Table A-1 White Oak Creek Watershed Inorganic Water Chemistry Sampling Results (2006)

Site Location: # 9 N FK WHITE OAK CK DST SR 131 AND DST BARR RUN

WAU 05090201-09 03

River Mile: 15.36 Storet ID: X02K26

Latitude/Longitude: 39.1418 / -83.8053

Drainage Area (mi2): 12

County: Highland

Ecoregion: IP

USGS Quad: Lynchburg

Date Collected	7/27/2006	8/3/2006	8/31/2006	9/21/2006	9/28/2006
Time	1215	1140	1150	1245	1145
Temp (C)		25.88	21.09	14.66	15.99
D.O. (mg/l)		6.15	5.35	11.53	10.21
D.O. (% sat)		75.8	60.2	113.6	103.6
pH (fld) SU		7.39	7.77	8.09	7.84
Sp Cond (fld)(umhos/cm)		566.4	326.4	388.2	459.4
Sp Cond (lab)(umhos/cm)	518	546	311	378	418
Acidity (mg/l)	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Alkalinity (mg/l)	200	200	155	107	115
Ammonia-N (mg/l)	0.106	0.139	0.105	< 0.050	0.069
BOD5 (mg/l)	< 2.0	2.7	< 2.0	< 2.0	< 2.0
COD (mg/l)	13	13	19	14	16
Chloride (mg/l)	39.6	43.0	14.0	19.3	22.4
Nitrate-nitrite-N (mg/l)	< 0.10	1.91	0.24	0.30	3.68
Nitrite-N (mg/l)	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TKN (mg/l)	0.58	0.24	0.74	0.66	0.62
Phosphorus-T (mg/l)	0.107	0.113	0.176	0.139	0.154
Sulfate (mg/l)	22.5	20.9	13.9	29.8	26.9
TSS (mg/l)	9	87	5	5	< 5
TDS (mg/l)	312	290	192	242	276
Aluminum-T (µg/l)	< 200	< 200	< 200	314	424
Arsenic-T (µg/l)	3.4	4.3	3.4	< 2.0	< 2.0
Barium-T (µg/l)	56	64	46	52	55
Cadmium-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Calcium-T (mg/l)	58	64	40	51	56
Chromium-T (µg/l)	< 30	< 30	< 30	< 30	< 30
Copper-T (µg/l)	< 10	< 10	< 10	< 10	< 10
Iron-T (µg/l)	159	273	223	468	587
Lead-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Magnesium-T (mg/l)	20	22	10	12	14
Manganese-T (µg/l)	188	415	138	63	69
Mercury-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Nickel-T (µg/l)	< 40	< 40	< 40	< 40	< 40
Potassium-T (mg/l)	5	6	8	8	8
Selenium-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Sodium-T (mg/l)	15	17	5	7	8
Strontium-T (µg/l)	131	145	90	93	99
Zinc-T (µg/l)	< 10	10	< 10	12	< 10
Hardness (mg/l CaCO3)	227	250	141	177	197

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

UJ - Analyte not detected above sample quantitation limit (QL).

RC - Result rejected; poor correlation with co-analyte

Appendix Table A-1 White Oak Creek Watershed Inorganic Water Chemistry Sampling Results (2006)

Site Location: # 10 N FK WHITE OAK CK @ SICILY RD NR BUFORD

WAU 05090201-09 04

River Mile: 6.98 Storet ID: X02S01

Latitude/Longitude: 39.0646 / -83.8499

Drainage Area (mi2): 46

County: Highland

Ecoregion: IP

USGS Quad: Sardinia

Date Collected	7/27/2006	8/3/2006	8/31/2006	9/21/2006	9/28/2006
Time	1100	1020	1030	0950	1025
Temp (C)		26.77	22.13	14.28	16.07
D.O. (mg/l)		6.17	3.81	11.27	10.74
D.O. (% sat)		77.2	43.7	110.1	109
pH (fld) SU		7.62	7.87	7.85	7.63
Sp Cond (fld)(umhos/cm)		442	415.1	362.8	287.2
Sp Cond (lab)(umhos/cm)	410	424	400	351	283
Acidity (mg/l)	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Alkalinity (mg/l)	159	162	186	106	80.1
Ammonia-N (mg/l)	< 0.050	0.059	0.091	< 0.050	0.081
BOD5 (mg/l)	< 2.0	< 2.0	< 2.0	< 2.0	11
COD (mg/l)	16	18	< 10	20	30
Chloride (mg/l)	24.6	24.1	25.3	15.8	14.0
Nitrate-nitrite-N (mg/l)	< 0.10	< 0.10	0.10	0.36	0.69
Nitrite-N (mg/l)	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TKN (mg/l)	0.45	0.48	0.49	0.60	0.65
Phosphorus-T (mg/l)	0.206	0.188	0.257	0.227	0.244
Sulfate (mg/l)	21.5	21.6	17.1	26.0	18.1
TSS (mg/l)	10	20	31	< 5	44
TDS (mg/l)	258	228	236	228	210
Aluminum-T (µg/l)	< 200	< 200	295	323	1720
Arsenic-T (µg/l)	3.9	4.2	4.1	2.6	< 2.0
Barium-T (µg/l)	50	51	50	50	49
Cadmium-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Calcium-T (mg/l)	50	52	45	49	38
Chromium-T (µg/l)	< 30	< 30	< 30	< 30	< 30
Copper-T (µg/l)	< 10	< 10	< 10	< 10	< 10
Iron-T (µg/l)	286	210	415	472	1740
Lead-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Magnesium-T (mg/l)	16	17	17	13	10
Manganese-T (µg/l)	120	146	228	46	94
Mercury-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Nickel-T (µg/l)	< 40	< 40	< 40	< 40	< 40
Potassium-T (mg/l)	6	6	5	8	10
Selenium-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Sodium-T (mg/l)	8	9	9	6	5
Strontium-T (µg/l)	127	134	126	107	77
Zinc-T (µg/l)	< 10	< 10	< 10	47	11
Hardness (mg/l CaCO3)	191	200	182	176	136

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

UJ - Analyte not detected above sample quantitation limit (QL).

RC - Result rejected; poor correlation with co-analyte

Appendix Table A-1 White Oak Creek Watershed Inorganic Water Chemistry Sampling Results (2006)

Site Location: # 11 N FK WHITE OAK CK @ CR 24B (TRI-COUNTY HWY)

WAU 05090201-09 04

River Mile: 1.48 Storet ID: 300057

Latitude/Longitude: 39.016 / -83.8711

Drainage Area (mi2): 53.6

County: Brown

Ecoregion: IP

USGS Quad: Sardinia

Date Collected	7/27/2006	8/3/2006	8/31/2006	9/20/2006	9/28/2006
Time	1020	0945	0900	1445	0930
Temp (C)	24.6	26.3	21.81	17.12	16.26
D.O. (mg/l)	5.74	4.83	3.9	8.38	7.73
D.O. (% sat)	69	59.9	44.4	87	78.8
pH (fld) SU	7.8	7.63	7.91	7.96	7.84
Sp Cond (fld)(umhos/cm)	461	435	397	359	298
Sp Cond (lab)(umhos/cm)	439	415	371	340	294
Acidity (mg/l)	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Alkalinity (mg/l)	161	152	166	102	84.2
Ammonia-N (mg/l)	0.077	0.099	0.104	0.058	0.073
BOD5 (mg/l)	< 2.0	< 2.0	< 2.0	< 2.0	5.7
COD (mg/l)	16	18	19	25	27
Chloride (mg/l)	32.6	27.3	28.3	15.8	14.2
Nitrate-nitrite-N (mg/l)	0.10	< 0.10	0.14	0.24	0.49
Nitrite-N (mg/l)	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TKN (mg/l)	0.47	0.49	0.60	0.64	0.58
Phosphorus-T (mg/l)	0.200	0.212	0.269	0.246	0.336
Sulfate (mg/l)	24.9	20.2	18.2	24.5	20.8
TSS (mg/l)	5	6	7	7	67
TDS (mg/l)	264	248	220	226	216
Aluminum-T (µg/l)	< 200	272	211	360	2390
Arsenic-T (µg/l)	3.7	5.2	3.9	3.2	< 2.0
Barium-T (µg/l)	49	53	46	48	56
Cadmium-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Calcium-T (mg/l)	50	51	40	47	39
Chromium-T (µg/l)	< 30	< 30	< 30	< 30	< 30
Copper-T (µg/l)	< 10	< 10	< 10	< 10	< 10
Iron-T (µg/l)	264	431	403	652	2810
Lead-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	2.4
Magnesium-T (mg/l)	15	16	13	11	10
Manganese-T (µg/l)	144	203	205	104	148
Mercury-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Nickel-T (µg/l)	< 40	< 40	< 40	< 40	< 40
Potassium-T (mg/l)	6	7	5	8	9
Selenium-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Sodium-T (mg/l)	15	11	15	7	6
Strontium-T (µg/l)	138	148	134	107	84
Zinc-T (µg/l)	< 10	10	< 10	< 10	14
Hardness (mg/l CaCO3)	187	193	153	163	138

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

UJ - Analyte not detected above sample quantitation limit (QL).

RC - Result rejected; poor correlation with co-analyte

Appendix Table A-1 White Oak Creek Watershed Inorganic Water Chemistry Sampling Results (2006)

Site Location: # 12 LITTLE N FK WHITE OAK CK @ SR 134

WAU 05090201-09 03

River Mile: 5.06 Storet ID: X02K25

Latitude/Longitude: 39.1594 / -83.8419

Drainage Area (mi²): 3.6

County: Highland

Ecoregion: IP

USGS Quad: Lynchburg

Date Collected	7/27/2006	8/3/2006	8/31/2006	9/21/2006	9/28/2006
Time	1345	1305	1315	1325	1250
Temp (C)		28.54	21.86	14.94	16.27
D.O. (mg/l)		10.1	9.18	16.04	10.7
D.O. (% sat)		130.5	104.7	159	109
pH (fld) SU		7.93	8.1	8.28	7.78
Sp Cond (fld)(umhos/cm)		496.3		431.4	
Sp Cond (lab)(umhos/cm)	483	480	495	423	513
Acidity (mg/l)	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Alkalinity (mg/l)	154	149	155	117	125
Ammonia-N (mg/l)	< 0.050	< 0.050	0.181	< 0.050	0.381
BOD5 (mg/l)	4.6	7.1	< 2.0	2.3	4.4
COD (mg/l)	30	26	25	22	24
Chloride (mg/l)	41.7	41.5	43.4	24.1	32.4
Nitrate-nitrite-N (mg/l)	< 0.10	< 0.10	6.08	0.50	4.02
Nitrite-N (mg/l)	< 0.020	< 0.020	0.470	< 0.020	0.045
TKN (mg/l)	1.10	0.65	1.62	1.35	1.17
Phosphorus-T (mg/l)	0.188	0.131	0.622	0.175	0.305
Sulfate (mg/l)	37.9	34.3	39.4	34.7	40.0
TSS (mg/l)	6	9	< 5	11	16
TDS (mg/l)	322	250	342	272	358
Aluminum-T (µg/l)	< 200	< 200	< 200	289	515
Arsenic-T (µg/l)	5.1	5.8	6.0	3.2	2.7
Barium-T (µg/l)	91	98	87	75	73
Cadmium-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Calcium-T (mg/l)	51	50	57	58	61
Chromium-T (µg/l)	< 30	< 30	< 30	< 30	< 30
Copper-T (µg/l)	< 10	< 10	< 10	< 10	< 10
Iron-T (µg/l)	266	308	112	581	780
Lead-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Magnesium-T (mg/l)	19	20	19	17	18
Manganese-T (µg/l)	159	188	30	56	81
Mercury-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Nickel-T (µg/l)	< 40	< 40	< 40	< 40	< 40
Potassium-T (mg/l)	11	10	17	9	10
Selenium-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Sodium-T (mg/l)	13	14	7	8	10
Strontium-T (µg/l)	140	146	135	130	136
Zinc-T (µg/l)	< 10	< 10	< 10	10	< 10
Hardness (mg/l CaCO ₃)	206	207	220	215	226

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

UJ - Analyte not detected above sample quantitation limit (QL).

RC - Result rejected; poor correlation with co-analyte

Appendix Table A-1 White Oak Creek Watershed Inorganic Water Chemistry Sampling Results (2006)

Site Location: # 13 LITTLE N FK WHITE OAK CK @ SR 131

WAU 05090201-09 03

River Mile: 2.94 Storet ID: X02K24

Latitude/Longitude: 39.1312 / -83.84403

Drainage Area (mi²): 7.3

County: Highland

Ecoregion: IP

USGS Quad: Lynchburg

Date Collected	7/27/2006	8/3/2006	8/31/2006	9/21/2006	9/28/2006
Time	1150	1110	1120	1220	1210
Temp (C)		25.2	20.98	13.11	15.43
D.O. (mg/l)		6.01	3.05	10.52	9.54
D.O. (% sat)		73.2	34.3	100.3	95.6
pH (fld) SU		7.31	7.62	7.87	7.79
Sp Cond (fld)(umhos/cm)		740.7	605.6	504.1	485.9
Sp Cond (lab)(umhos/cm)	667	706	601	495	462
Acidity (mg/l)	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Alkalinity (mg/l)	218	215	216	129	124
Ammonia-N (mg/l)	0.066	0.091	0.072	< 0.050	< 0.050
BOD5 (mg/l)	< 2.0	< 2.0	2.1	< 2.0	2.8
COD (mg/l)	13	10	30	17	18
Chloride (mg/l)	67.6	72.4	72.7	39.1	31.2
Nitrate-nitrite-N (mg/l)	0.17	0.14	< 0.10	0.25	0.55
Nitrite-N (mg/l)	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TKN (mg/l)	0.90	0.22	0.77	0.74	0.62
Phosphorus-T (mg/l)	0.150	0.034	0.322	0.220	0.247
Sulfate (mg/l)	36.0	39.2	25.5	31.4	33.3
TSS (mg/l)	< 5	17	7	12	5
TDS (mg/l)	402	412	364	306	304
Aluminum-T (µg/l)	< 200	< 200	< 200	< 200	418
Arsenic-T (µg/l)	3.8	3.9	7.2	3.3	2.6
Barium-T (µg/l)	74	78	70	66	69
Cadmium-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Calcium-T (mg/l)	74	80	59	61	58
Chromium-T (µg/l)	< 30	< 30	< 30	< 30	< 30
Copper-T (µg/l)	< 10	< 10	< 10	< 10	< 10
Iron-T (µg/l)	144	190	310	254	590
Lead-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Magnesium-T (mg/l)	23	25	19	17	17
Manganese-T (µg/l)	223	227	745	75	91
Mercury-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Nickel-T (µg/l)	< 40	< 40	< 40	< 40	< 40
Potassium-T (mg/l)	5	5	7	7	8
Selenium-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Sodium-T (mg/l)	27	31	26	16	12
Strontium-T (µg/l)	180	199	165	144	143
Zinc-T (µg/l)	< 10	< 10	< 10	< 10	< 10
Hardness (mg/l CaCO ₃)	279	303	226	222	215

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

UJ - Analyte not detected above sample quantitation limit (QL).

RC - Result rejected; poor correlation with co-analyte

Appendix Table A-1 White Oak Creek Watershed Inorganic Water Chemistry Sampling Results (2006)

Site Location: # 14 LITTLE N FK WHITE OAK CK @ ROSSELOTT RD

WAU 05090201-09 03

River Mile: 0.28 Storet ID: X02K23

Latitude/Longitude: 39.0963 / -83.8424

Drainage Area (mi2): 13.8

County: Highland

Ecoregion: IP

USGS Quad: Sardinia

Date Collected	7/27/2006	8/3/2006	8/31/2006	9/21/2006	9/28/2006
Time	1125	0945	1100	1155	1100
Temp (C)		24.89	20.85	13.18	15.98
D.O. (mg/l)		3.27	4.12	13.94	10.23
D.O. (% sat)		39.5	46	133	103.8
pH (fld) SU		7.27	7.8	8.07	7.69
Sp Cond (fld)(umhos/cm)		508.4		440.3	467.7
Sp Cond (lab)(umhos/cm)	481	483	352	433	425
Acidity (mg/l)	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Alkalinity (mg/l)	180	185	164	128	120
Ammonia-N (mg/l)	0.065	0.086	0.167	< 0.050	0.084
BOD5 (mg/l)	< 2.0	< 2.0	< 2.0	< 2.0	3.4
COD (mg/l)	25	15	10	17	16
Chloride (mg/l)	33.6	32.4	23.6	23.2	24.8
Nitrate-nitrite-N (mg/l)	< 0.10	< 0.10	0.44	0.28	1.30 J
Nitrite-N (mg/l)	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TKN (mg/l)	1.52	< 0.20	0.50	0.69	0.75
Phosphorus-T (mg/l)	0.260	0.274	0.334	0.240	0.298
Sulfate (mg/l)	24.4	24.3	19.5	27.6	25.8
TSS (mg/l)	5	8	< 5	< 5	16
TDS (mg/l)	306	290	218	266	282
Aluminum-T (µg/l)	< 200	< 200	< 200	< 200	653
Arsenic-T (µg/l)	3.8	5.7	5.5	2.0	2.0
Barium-T (µg/l)	55	55	43	58	67
Cadmium-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Calcium-T (mg/l)	55	56	40	56	55
Chromium-T (µg/l)	< 30	< 30	< 30	< 30	< 30
Copper-T (µg/l)	< 10	< 10	< 10	< 10	< 10
Iron-T (µg/l)	291	218	218	302	926
Lead-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Magnesium-T (mg/l)	18	19	14	17	17
Manganese-T (µg/l)	198	265	421	44	116
Mercury-T (µg/l)	0.23	< 0.20	< 0.20	< 0.20	< 0.20
Nickel-T (µg/l)	< 40	< 40	< 40	< 40	< 40
Potassium-T (mg/l)	7	7	5	8	9
Selenium-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Sodium-T (mg/l)	12	12	9	9	10
Strontium-T (µg/l)	164	170	127	148	141
Zinc-T (µg/l)	< 10	< 10	11	< 10	< 10
Hardness (mg/l CaCO3)	211	218	158	210	207

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

UJ - Analyte not detected above sample quantitation limit (QL).

RC - Result rejected; poor correlation with co-analyte

Appendix Table A-1 White Oak Creek Watershed Inorganic Water Chemistry Sampling Results (2006)

Site Location: # 15 FLAT RUN @ KELCH RD

WAU 05090201-09 04

River Mile: 4.8 Storet ID: X02K22

Latitude/Longitude: 39.0486 / -83.8124

Drainage Area (mi²): 3.9

County: Highland

Ecoregion: IP

USGS Quad: Sardinia

Date Collected	7/27/2006	8/3/2006	8/31/2006	9/21/2006	9/28/2006
Time	1020	1010	1000	1050	1000
Temp (C)		24.49	20.68	11.93	15.57
D.O. (mg/l)		3.1	6.53	12.45	10.29
D.O. (% sat)		37.2	72.8	115.4	103.3
pH (fld) SU		7.22	7.75	7.89	7.49
Sp Cond (fld)(umhos/cm)		399.1		384.4	220.4
Sp Cond (lab)(umhos/cm)	369	385	414	376	211
Acidity (mg/l)	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Alkalinity (mg/l)	144	146	202	104	52.3
Ammonia-N (mg/l)	0.093	0.107	< 0.050	< 0.050	0.065
BOD5 (mg/l)	< 2.0	< 2.0	< 2.0	< 2.0	10
COD (mg/l)	25	18	< 10	17	35
Chloride (mg/l)	25.1	27.0	24.3	16.5	11.7
Nitrate-nitrite-N (mg/l)	0.15	< 0.10	0.10	0.80	0.93
Nitrite-N (mg/l)	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TKN (mg/l)	0.72	0.29	0.52	0.74	1.04
Phosphorus-T (mg/l)	0.371	0.438	0.366	0.190	0.537
Sulfate (mg/l)	15.9	12.4	20.8	32.4	18.3
TSS (mg/l)	11	< 5	< 5	< 5	57
TDS (mg/l)	230	232	256	236	170
Aluminum-T (µg/l)	< 200	< 200	< 200	< 200	1840
Arsenic-T (µg/l)	5.9	6.8	4.7	< 2.0	2.1
Barium-T (µg/l)	42	44	42	42	47
Cadmium-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Calcium-T (mg/l)	40	39	44	46	25
Chromium-T (µg/l)	< 30	< 30	< 30	< 30	< 30
Copper-T (µg/l)	< 10	< 10	< 10	< 10	< 10
Iron-T (µg/l)	197	210	330	351	1900
Lead-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	2.0
Magnesium-T (mg/l)	14	15	19	15	7
Manganese-T (µg/l)	237	303	239	61	131
Mercury-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Nickel-T (µg/l)	< 40	< 40	< 40	< 40	< 40
Potassium-T (mg/l)	9	8	5	6	8
Selenium-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Sodium-T (mg/l)	11	11	9	8	5
Strontium-T (µg/l)	97	96	130	101	54
Zinc-T (µg/l)	< 10	< 10	10	22	15
Hardness (mg/l CaCO ₃)	158	159	188	177	91

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

UJ - Analyte not detected above sample quantitation limit (QL).

RC - Result rejected; poor correlation with co-analyte

Appendix Table A-1 White Oak Creek Watershed Inorganic Water Chemistry Sampling Results (2006)

Site Location: # 16 FLAT RUN @ SR 134

WAU 05090201-09 04

River Mile: 3.39 Storet ID: X02K21

Latitude/Longitude: 39.0383 / -83.8303

Drainage Area (mi²): 7.4

County: Highland

Ecoregion: IP

USGS Quad: Sardinia

Date Collected	7/27/2006	8/3/2006	8/31/2006	9/21/2006	9/28/2006
Time	0950	1125	0900	1130	0945
Temp (C)		23.99	20.78	14.68	15.69
D.O. (mg/l)		7.65	6.49	12.45	9.73
D.O. (% sat)		91	72.6	122.7	98
pH (fld) SU		7.26	8.08	7.87	7.52
Sp Cond (fld)(umhos/cm)		645.2	631.1	447.7	310.5
Sp Cond (lab)(umhos/cm)	594	609	603	437	302
Acidity (mg/l)	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Alkalinity (mg/l)	254	270	308	130	74.1
Ammonia-N (mg/l)	0.142	0.078	0.059	< 0.050	0.114
BOD5 (mg/l)	< 2.0	< 2.0	< 2.0	< 2.0	26
COD (mg/l)	< 10	< 10	< 10	14	55
Chloride (mg/l)	25.9	24.5	25.4	18.3	18.4
Nitrate-nitrite-N (mg/l)	0.33	0.51	0.38	0.28	1.02
Nitrite-N (mg/l)	< 0.020	< 0.020	< 0.020	< 0.020	0.022
TKN (mg/l)	0.69	< 0.20	< 0.20	0.66	1.50
Phosphorus-T (mg/l)	0.319	0.162	0.369 J	0.379	0.856
Sulfate (mg/l)	35.0	32.0	31.6	35.2	22.0
TSS (mg/l)	10	< 5	< 5	9	68
TDS (mg/l)	350	368	358	266	228
Aluminum-T (µg/l)	< 200	< 200	< 200	< 200	1620
Arsenic-T (µg/l)	2.9	< 2.0	< 2.0	< 2.0	3.8
Barium-T (µg/l)	62	60	63	52	56
Cadmium-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Calcium-T (mg/l)	75	76	78	56	34
Chromium-T (µg/l)	< 30	< 30	< 30	< 30	< 30
Copper-T (µg/l)	< 10	< 10	< 10	< 10	< 10
Iron-T (µg/l)	249	235	276	280	1800
Lead-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Magnesium-T (mg/l)	27	28	29	17	10
Manganese-T (µg/l)	270	202	213	108	241
Mercury-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Nickel-T (µg/l)	< 40	< 40	< 40	< 40	< 40
Potassium-T (mg/l)	4	3	3	7	13
Selenium-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Sodium-T (mg/l)	10	8	8	7	9
Strontium-T (µg/l)	445	486	514	242	84
Zinc-T (µg/l)	< 10	< 10	< 10	< 10	20
Hardness (mg/l CaCO ₃)	298	305	314	210	126

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

UJ - Analyte not detected above sample quantitation limit (QL).

RC - Result rejected; poor correlation with co-analyte

Appendix Table A-1 White Oak Creek Watershed Inorganic Water Chemistry Sampling Results (2006)

Site Location: # 17 FLAT RUN @ TRI-COUNTY HWY

WAU 05090201-09 04

River Mile: 0.15 Storet ID: X02K20

Latitude/Longitude: 39.0166 / -83.8681

Drainage Area (mi²): 12.3

County: Brown

Ecoregion: IP

USGS Quad: Sardinia

Date Collected	7/27/2006	8/3/2006	8/31/2006	9/20/2006	9/28/2006
Time	1130	1115	1050	1420	0950
Temp (C)	22.52	24.97	21.02	15.48	15.83
D.O. (mg/l)	2.64	3.62	1.9	6.58	7.55
D.O. (% sat)	30.5	43.9	21.3	66	76.3
pH (fld) SU	7.57	7.64	7.63	7.81	7.79
Sp Cond (fld)(umhos/cm)	475	481	447	382	324
Sp Cond (lab)(umhos/cm)	452	456	427	365	312
Acidity (mg/l)	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Alkalinity (mg/l)	172	172	187	107	93.1
Ammonia-N (mg/l)	0.088	0.105	0.086	< 0.050	0.058
BOD5 (mg/l)	< 2.0	< 2.0	< 2.0	< 2.0	5.2
COD (mg/l)	27	21	13	20	27
Chloride (mg/l)	31.6	31.8	37.1	19.4	12.6
Nitrate-nitrite-N (mg/l)	0.18	0.41	0.10	0.14	0.26
Nitrite-N (mg/l)	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TKN (mg/l)	0.66	0.41	0.55	0.80	0.38
Phosphorus-T (mg/l)	0.224	0.229	0.279	0.184	0.241
Sulfate (mg/l)	22.4	17.2	13.0	25.9	20.8
TSS (mg/l)	< 5	< 5	< 5	11	78
TDS (mg/l)	272	274	252	226	232
Aluminum-T (µg/l)	< 200	< 200	< 200	< 200	2340
Arsenic-T (µg/l)	5.8	5.8	4.7	2.8	2.2
Barium-T (µg/l)	50	50	48	50	60
Cadmium-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Calcium-T (mg/l)	52	55	47	47	42
Chromium-T (µg/l)	< 30	< 30	< 30	< 30	< 30
Copper-T (µg/l)	< 10	< 10	< 10	< 10	< 10
Iron-T (µg/l)	340	287	421	486	2950
Lead-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	2.8
Magnesium-T (mg/l)	14	15	13	12	11
Manganese-T (µg/l)	361	512	722	103	277
Mercury-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Nickel-T (µg/l)	< 40	< 40	< 40	< 40	< 40
Potassium-T (mg/l)	9	9	7	7	8
Selenium-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Sodium-T (mg/l)	14	15	18	10	6
Strontium-T (µg/l)	148	158	141	122	107
Zinc-T (µg/l)	< 10	< 10	< 10	< 10	14
Hardness (mg/l CaCO ₃)	187	199	171	167	150

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

UJ - Analyte not detected above sample quantitation limit (QL).

RC - Result rejected; poor correlation with co-analyte

Appendix Table A-1 White Oak Creek Watershed Inorganic Water Chemistry Sampling Results (2006)

Site Location: # 18 E FK WHITE OAK CK @ LENINGER-HAIGH RD (CR 72)

WAU 05090201-09 01

River Mile: 18.69 Storet ID: X02K42

Latitude/Longitude: 39.1178 / -83.6885

Drainage Area (mi2): 6.7

County: Highland

Ecoregion: IP

USGS Quad: Sugar Tree Ridge

Date Collected	7/27/2006	8/3/2006	8/31/2006	9/21/2006	9/28/2006
Time	1530	1450	1350	1335	1320
Temp (C)	22.76	26.92	21.15	13.17	15.56
D.O. (mg/l)	8.23	8.77	8.73	10.76	7.96
D.O. (% sat)	95.6	110	98.3	102.7	80
pH (fld) SU	8.22	8.16	8.18	8.19	7.84
Sp Cond (fld)(umhos/cm)	568	566	493	598.7	259.2
Sp Cond (lab)(umhos/cm)	543	536	474	592	255
Acidity (mg/l)	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Alkalinity (mg/l)	253	244	253	203	75.5
Ammonia-N (mg/l)	< 0.050	< 0.050	< 0.050	< 0.050	0.073
BOD5 (mg/l)	< 2.0	< 2.0	< 2.0	< 2.0	8.2
COD (mg/l)	< 10	15	< 10	< 10	27
Chloride (mg/l)	16.4	17.5	16.1	22.2	9.7
Nitrate-nitrite-N (mg/l)	0.41	0.44	0.47	0.50	1.15
Nitrite-N (mg/l)	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TKN (mg/l)	0.37	< 0.20	0.51	0.23	0.78
Phosphorus-T (mg/l)	0.491	0.376	0.096	0.027	0.344
Sulfate (mg/l)	24.6	22.8	22.5	30.4	15.7
TSS (mg/l)	81	40 J	8	20	38
TDS (mg/l)	326	322	288	346	204
Aluminum-T (µg/l)	< 200 UJ	< 200	271	< 200 UJ	2320
Arsenic-T (µg/l)	2.3	2.4	2.0	< 2.0	< 2.0
Barium-T (µg/l)	57	59	58	59	46
Cadmium-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Calcium-T (mg/l)	68	69	64	77	31
Chromium-T (µg/l)	< 30	< 30	< 30	< 30	< 30
Copper-T (µg/l)	< 10	< 10	< 10	< 10	< 10
Iron-T (µg/l)	211 J	251	530	205 J	2000
Lead-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	2.0
Magnesium-T (mg/l)	28	28	25	31	11
Manganese-T (µg/l)	43 J	66	72	29 J	92
Mercury-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Nickel-T (µg/l)	< 40	< 40	< 40	< 40	< 40
Potassium-T (mg/l)	2	3	4	3	8
Selenium-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Sodium-T (mg/l)	7	7	7	10	< 5
Strontium-T (µg/l)	102	102	90	105	43
Zinc-T (µg/l)	< 10	14	< 10	< 10 UJ	14
Hardness (mg/l CaCO3)	285	288	263	320	123

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

UJ - Analyte not detected above sample quantitation limit (QL).

RC - Result rejected; poor correlation with co-analyte

Appendix Table A-1 White Oak Creek Watershed Inorganic Water Chemistry Sampling Results (2006)

Site Location: # 19 E FK WHITE OAK CK ADJ ROBINSON RD, DST SORG RD AND TRIB

WAU 05090201-09 01

River Mile: 16.5 Storet ID: X02K41

Latitude/Longitude: 39.0972 / -83.708

Drainage Area (mi2): 12.7

County: Highland

Ecoregion: IP

USGS Quad: Sugar Tree Ridge

Date Collected	7/27/2006	8/3/2006	8/31/2006	9/21/2006	9/28/2006
Time	1445	1400	1310	1255	1225
Temp (C)	26.05	32.25	22.52	16.81	15.46
D.O. (mg/l)	3.47	10.09	8.81	11.77	8.18
D.O. (% sat)	42.9	138.8	101.8	121.4	81.9
pH (fld) SU	7.7	8.25	8.1	8.21	7.71
Sp Cond (fld)(umhos/cm)	518	495	442	548.9	253.4
Sp Cond (lab)(umhos/cm)	500	467	439	537	253
Acidity (mg/l)	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Alkalinity (mg/l)	223	198	212	178	73.5
Ammonia-N (mg/l)	0.365	0.178	0.101	< 0.050	0.061
BOD5 (mg/l)	9.7	6.5	2.4	< 2.0	9.8
COD (mg/l)	19	24	< 10	< 10	24
Chloride (mg/l)	22.6	21.1	20.2	22.4	10.6
Nitrate-nitrite-N (mg/l)	0.14	0.15	0.24	0.16	0.98
Nitrite-N (mg/l)	0.034	0.035	0.027	< 0.020	< 0.020
TKN (mg/l)	2.50	3.12	0.86	0.44	0.53
Phosphorus-T (mg/l)	0.141	0.169	0.138	0.042	0.379
Sulfate (mg/l)	21.3	20.6	21.0	29.5	15.5
TSS (mg/l)	64	29 J	43	< 5	89
TDS (mg/l)	306	278	258	306	198
Aluminum-T (µg/l)	444 J	468	442	< 200 UJ	2890
Arsenic-T (µg/l)	6.4	4.8	3.5	< 2.0	< 2.0
Barium-T (µg/l)	68	65	61	59	52
Cadmium-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Calcium-T (mg/l)	50	48	49	66	31
Chromium-T (µg/l)	< 30	< 30	< 30	< 30	< 30
Copper-T (µg/l)	< 10	< 10	< 10	< 10	< 10
Iron-T (µg/l)	1210 J	1210	850	273 J	3440
Lead-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	2.9
Magnesium-T (mg/l)	28	26	22	28	11
Manganese-T (µg/l)	226 J	167	103	41 J	158
Mercury-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Nickel-T (µg/l)	< 40	< 40	< 40	< 40	< 40
Potassium-T (mg/l)	8	8	6	4	8
Selenium-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Sodium-T (mg/l)	8	8	8	10	< 5
Strontium-T (µg/l)	99	95	86	104	45
Zinc-T (µg/l)	< 10	< 10	15	15 J	24
Hardness (mg/l CaCO3)	240	227	213	280	123

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

UJ - Analyte not detected above sample quantitation limit (QL).

RC - Result rejected; poor correlation with co-analyte

Appendix Table A-1 White Oak Creek Watershed Inorganic Water Chemistry Sampling Results (2006)

Site Location: # 20 E FK WHITE OAK CK @ MOWRYSTOWN DIEHL PARK UPST DAM

WAU 05090201-09 02

River Mile: 10.48 Storet ID: X02K35

Latitude/Longitude: 39.0398 / -83.7438

Drainage Area (mi2): 39

County: Highland

Ecoregion: IP

USGS Quad: Sugar Tree Ridge

Date Collected	7/27/2006	8/3/2006	8/31/2006	9/21/2006	9/28/2006
Time	1210	1130	1115	1110	1130
Temp (C)	24.8	27.25	22.19	15.69	16.16
D.O. (mg/l)	5.47	4.74	4.4	7.12	7.4
D.O. (% sat)	66	59.8	50.6	71.8	75.4
pH (fld) SU	7.91	7.86	7.81	7.92	7.78
Sp Cond (fld)(umhos/cm)	553	548	468	514.5	485.7
Sp Cond (lab)(umhos/cm)	528	522	463	506	478
Acidity (mg/l)	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Alkalinity (mg/l)	220	210	214	152	144
Ammonia-N (mg/l)	0.059	0.084	0.052	< 0.050	0.067
BOD5 (mg/l)	3.4	2.6	3.7	< 2.0	3.0
COD (mg/l)	11	10	< 10	< 10	< 10
Chloride (mg/l)	24.5	23.7	22.4	20.1	19.4
Nitrate-nitrite-N (mg/l)	0.12	0.11	0.17	1.60	0.82
Nitrite-N (mg/l)	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TKN (mg/l)	0.87	< 0.20	0.33	0.43	0.37
Phosphorus-T (mg/l)	0.147	0.093	0.419	0.087	0.151
Sulfate (mg/l)	32.6	27.1	30.6	38.1	31.3
TSS (mg/l)	22	21 J	29	< 5	76
TDS (mg/l)	322	312	280	302	310
Aluminum-T (µg/l)	254 J	369	790	< 200 UJ	1280
Arsenic-T (µg/l)	4.5	4.2	3.3	< 2.0	3.6
Barium-T (µg/l)	64	66	66	62	66
Cadmium-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Calcium-T (mg/l)	65	65	54	66	63
Chromium-T (µg/l)	< 30	< 30	< 30	< 30	< 30
Copper-T (µg/l)	< 10	< 10	< 10	< 10	< 10
Iron-T (µg/l)	477 J	617	1180	273 J	1830
Lead-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Magnesium-T (mg/l)	24	25	22	22	21
Manganese-T (µg/l)	165 J	215	195	62 J	165
Mercury-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Nickel-T (µg/l)	< 40	< 40	< 40	< 40	< 40
Potassium-T (mg/l)	5	5	6	5	5
Selenium-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Sodium-T (mg/l)	9	9	8	9	9
Strontium-T (µg/l)	146	142	129	126	122
Zinc-T (µg/l)	10	11	< 10	31 J	10
Hardness (mg/l CaCO3)	261	265	225	255	244

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

UJ - Analyte not detected above sample quantitation limit (QL).

RC - Result rejected; poor correlation with co-analyte

Appendix Table A-1 White Oak Creek Watershed Inorganic Water Chemistry Sampling Results (2006)

Site Location: # 21 E FK WHITE OAK CK @ MOWRYSTOWN RD AT SARDINIA

WAU 05090201-09 02

River Mile: 5.81 Storet ID: X02W10

Latitude/Longitude: 39.0153 / -83.7953

Drainage Area (mi²): 52

County: Brown

Ecoregion: IP

USGS Quad: Sardinia

Date Collected	7/27/2006	8/3/2006	8/31/2006	9/21/2006	9/28/2006
Time	1420	1400	1320	1330	1205
Temp (C)	25.76	29.58	23.32	16.69	16.55
D.O. (mg/l)	7.65	8.31	6.05	9.37	8.12
D.O. (% sat)	94	109.3	71	96.4	83.3
pH (fld) SU	8.11	8.3	8.04	8.08	7.92
Sp Cond (fld)(umhos/cm)	363	519	479	460	390
Sp Cond (lab)(umhos/cm)	343	496	459	451	365
Acidity (mg/l)	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Alkalinity (mg/l)	136	199	219	134	114
Ammonia-N (mg/l)	< 0.050	< 0.050	0.088	< 0.050	< 0.050
BOD5 (mg/l)	4.6	2.9	2.3	< 2.0	3.7
COD (mg/l)	22	13	10	20	13
Chloride (mg/l)	16.5	24.0	22.5	17.3	15.3
Nitrate-nitrite-N (mg/l)	0.13	< 0.10	0.15	0.48	0.87
Nitrite-N (mg/l)	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TKN (mg/l)	0.58	< 0.20	0.46	0.34	0.63
Phosphorus-T (mg/l)	0.174	0.036	0.221	0.093	0.239
Sulfate (mg/l)	21.8	26.6	26.7	36.2	25.6
TSS (mg/l)	11	8	11	6	47
TDS (mg/l)	218	302	274	274	270
Aluminum-T (µg/l)	< 200	< 200	217	< 200	1390
Arsenic-T (µg/l)	4.1	4.2	4.0	2.2	< 2.0
Barium-T (µg/l)	52	68	69	62	58
Cadmium-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Calcium-T (mg/l)	44	64	53	62	51
Chromium-T (µg/l)	< 30	< 30	< 30	< 30	< 30
Copper-T (µg/l)	< 10	< 10	< 10	< 10	< 10
Iron-T (µg/l)	370	259	360	357	1700
Lead-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Magnesium-T (mg/l)	13	23	23	18	16
Manganese-T (µg/l)	204	187	177	70	106
Mercury-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Nickel-T (µg/l)	< 40	< 40	< 40	< 40	< 40
Potassium-T (mg/l)	7	6	6	6	6
Selenium-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Sodium-T (mg/l)	6	10	10	8	6
Strontium-T (µg/l)	102	151	141	129	110
Zinc-T (µg/l)	< 10	< 10	< 10	< 10	< 10
Hardness (mg/l CaCO ₃)	163	254	227	229	193

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

UJ - Analyte not detected above sample quantitation limit (QL).

RC - Result rejected; poor correlation with co-analyte

Appendix Table A-1 White Oak Creek Watershed Inorganic Water Chemistry Sampling Results (2006)

Site Location: # 22 E FK WHITE OAK CK ADJ SR 74 DST SARDINIA

WAU 05090201-09 02

River Mile: 3.3 Storet ID: X02W11

Latitude/Longitude: 39.0086 / -83.8319

Drainage Area (mi2): 70

County: Brown

Ecoregion: IP

USGS Quad: Sardinia

Date Collected	7/27/2006	8/3/2006	8/31/2006	9/20/2006	9/28/2006
Time	1245	1200	1130	1400	1025
Temp (C)	24.94	27	22.17	16.77	16.19
D.O. (mg/l)	7.12	5.58	5.23	8.08	8.12
D.O. (% sat)	86.1	70.2	60.1	83.3	82.6
pH (fld) SU	8	7.98	7.98	7.94	7.91
Sp Cond (fld)(umhos/cm)	322	489	496	465	334
Sp Cond (lab)(umhos/cm)	307	473	475	454	316
Acidity (mg/l)	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Alkalinity (mg/l)	118	183	217	133	91.0
Ammonia-N (mg/l)	< 0.050	< 0.050	0.070	< 0.050	0.071
BOD5 (mg/l)	2.5	< 2.0	< 2.0	< 2.0	8.0
COD (mg/l)	22	15	13	75	16
Chloride (mg/l)	16.0	25.3	27.4	20.0	14.7
Nitrate-nitrite-N (mg/l)	0.23	< 0.10	0.28	0.76	0.88
Nitrite-N (mg/l)	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TKN (mg/l)	0.51	0.57	0.37	0.50	0.48
Phosphorus-T (mg/l)	0.203	0.137	0.238	0.163	0.297
Sulfate (mg/l)	20.6	25.7	29.4	34.6	24.5
TSS (mg/l)	9	8	7	< 5	117
TDS (mg/l)	190	284	284	282	234
Aluminum-T (µg/l)	246	< 200	< 200	< 200	2550
Arsenic-T (µg/l)	3.8	3.8	3.7	< 2.0	< 2.0
Barium-T (µg/l)	43	58	60	62	63
Cadmium-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Calcium-T (mg/l)	37	57	51	61	44
Chromium-T (µg/l)	< 30	< 30	< 30	< 30	< 30
Copper-T (µg/l)	< 10	< 10	< 10	< 10	< 10
Iron-T (µg/l)	387	310	313	338	2880
Lead-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	3.7
Magnesium-T (mg/l)	10	18	22	17	12
Manganese-T (µg/l)	103	175	138	82	179
Mercury-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Nickel-T (µg/l)	< 40	< 40	< 40	< 40	< 40
Potassium-T (mg/l)	7	7	7	6	7
Selenium-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Sodium-T (mg/l)	7	11	12	10	8
Strontium-T (µg/l)	94	144	152	148	135
Zinc-T (µg/l)	< 10	< 10	< 10	< 10	18
Hardness (mg/l CaCO3)	134	216	218	222	159

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

UJ - Analyte not detected above sample quantitation limit (QL).

RC - Result rejected; poor correlation with co-analyte

Appendix Table A-1 White Oak Creek Watershed Inorganic Water Chemistry Sampling Results (2006)

Site Location: # 23 TRIB TO E FK WHITE OAK CK (15.52) @ NEW MARKET RD

WAU 05090201-09 01

River Mile: 2.1 Storet ID: X02K40

Latitude/Longitude: 39.1168 / -83.7315

Drainage Area (mi2): 4.6

County: Highland

Ecoregion: IP

USGS Quad: Sugar Tree Ridge

Date Collected	7/27/2006	8/3/2006	8/31/2006	9/21/2006	9/28/2006
Time	1505	1425	1330	1315	1300
Temp (C)	24.6	27.92	21.4	13.99	15.63
D.O. (mg/l)	0.08	0.09	2.24	7.73	8.07
D.O. (% sat)	0.9	1.2	25.4	75.2	81.2
pH (fld) SU	7.63	7.61	7.54	7.94	7.75
Sp Cond (fld)(umhos/cm)	1145	1333	631	639.5	272.9
Sp Cond (lab)(umhos/cm)	1080	1250	622	632	267
Acidity (mg/l)	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Alkalinity (mg/l)	378	458	231	167	66.7
Ammonia-N (mg/l)	29.9	50.8	2.42	0.231	0.104
BOD5 (mg/l)	170	190	5.1	4.5	9.2
COD (mg/l)	249	289	27	14	30
Chloride (mg/l)	109	99.1	63.3	47.2	16.1
Nitrate-nitrite-N (mg/l)	< 0.10	0.18	0.27	0.50	1.39
Nitrite-N (mg/l)	< 0.020	< 0.580 UJ	0.036	0.026	< 0.020
TKN (mg/l)	30.3	60.1	3.31	1.47	0.93
Phosphorus-T (mg/l)	2.89	5.31	0.457	0.177	0.403
Sulfate (mg/l)	21.9	16.4	30.5	46.4	21.0
TSS (mg/l)	14	560 J	24	17	38
TDS (mg/l)	624	722	352	378	220
Aluminum-T (µg/l)	2120 J	4140	241	293 J	1700
Arsenic-T (µg/l)	20.3	32.8	9.7	3.2	< 2.0
Barium-T (µg/l)	315	414	123	100	46
Cadmium-T (µg/l)	0.20	0.30	< 0.20	< 0.20	< 0.20
Calcium-T (mg/l)	75	91	55	76	35
Chromium-T (µg/l)	< 30	< 30	< 30	< 30	< 30
Copper-T (µg/l)	< 10	17	< 10	< 10	< 10
Iron-T (µg/l)	14700 J	24700	2420	1100 J	1720
Lead-T (µg/l)	10.3	18.9	< 2.0	< 2.0	< 2.0
Magnesium-T (mg/l)	32	38	23	23	9
Manganese-T (µg/l)	2100 J	2690	559	247 J	84
Mercury-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Nickel-T (µg/l)	< 40	< 40	< 40	< 40	< 40
Potassium-T (mg/l)	57	84	15	8	11
Selenium-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Sodium-T (mg/l)	36	29	26	20	5
Strontium-T (µg/l)	293	303	259	198	62
Zinc-T (µg/l)	42	78	27	29 J	17
Hardness (mg/l CaCO3)	319	384	232	284	124

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

UJ - Analyte not detected above sample quantitation limit (QL).

RC - Result rejected; poor correlation with co-analyte

Appendix Table A-1 White Oak Creek Watershed Inorganic Water Chemistry Sampling Results (2006)

Site Location: # 24 TRIB TO E FK WHITE OAK CK (15.52) @ ROBINSON RD

WAU 05090201-09 01

River Mile: 0.26 Storet ID: X02K39

Latitude/Longitude: 39.0935 / -83.7207

Drainage Area (mi2): 7.1

County: Highland

Ecoregion: IP

USGS Quad: Sugar Tree Ridge

Date Collected	7/27/2006	8/3/2006	8/31/2006	9/21/2006	9/28/2006
Time	1430	1345	1255	1245	1240
Temp (C)	21.59	23.69	20.63	13.51	15.53
D.O. (mg/l)	5.83	5.68	4.3	8.42	8.21
D.O. (% sat)	66.3	67.2	48	80.9	82.4
pH (fld) SU	7.83	7.73	7.73	8.13	7.65
Sp Cond (fld)(umhos/cm)	521	529	472	500.4	260.3
Sp Cond (lab)(umhos/cm)	499	506	464	495	256
Acidity (mg/l)	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Alkalinity (mg/l)	216	207	214	148	68.7
Ammonia-N (mg/l)	< 0.050	0.056	0.093	< 0.050	0.061
BOD5 (mg/l)	< 2.0	< 2.0	2.0	< 2.0	9.8
COD (mg/l)	< 10	< 10	13	11	30
Chloride (mg/l)	23.4	25.6	27.3	23.5	12.9
Nitrate-nitrite-N (mg/l)	1.38	1.22	0.85	1.53 J	0.98
Nitrite-N (mg/l)	< 0.020	< 0.020	0.028	< 0.020	< 0.020
TKN (mg/l)	< 0.20	< 0.20	0.32	0.53	0.69
Phosphorus-T (mg/l)	0.067	0.091	0.155	0.115	0.334
Sulfate (mg/l)	21.8	20.0	22.4	33.3	19.5
TSS (mg/l)	5	5 J	23	25	59
TDS (mg/l)	312	302	280	294	204
Aluminum-T (µg/l)	< 200 UJ	249	< 200	348 J	2200
Arsenic-T (µg/l)	< 2.0	3.3	2.4	2.2	< 2.0
Barium-T (µg/l)	48	53	52	58	48
Cadmium-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Calcium-T (mg/l)	62	63	53	66	33
Chromium-T (µg/l)	< 30	< 30	< 30	< 30	< 30
Copper-T (µg/l)	< 10	< 10	< 10	< 10	< 10
Iron-T (µg/l)	165 J	520	387	675 J	2520
Lead-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	2.1
Magnesium-T (mg/l)	21	21	19	20	9
Manganese-T (µg/l)	61 J	120	126	75 J	109
Mercury-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Nickel-T (µg/l)	< 40	< 40	< 40	< 40	< 40
Potassium-T (mg/l)	5	6	9	6	9
Selenium-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Sodium-T (mg/l)	9	9	9	10	< 5
Strontium-T (µg/l)	114	114	110	116	62
Zinc-T (µg/l)	< 10	< 10	< 10	11 J	14
Hardness (mg/l CaCO3)	241	244	210	247	119

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

UJ - Analyte not detected above sample quantitation limit (QL).

RC - Result rejected; poor correlation with co-analyte

Appendix Table A-1 White Oak Creek Watershed Inorganic Water Chemistry Sampling Results (2006)

Site Location: # 25 TRIB TO E FK WHITE OAK CK (14.35) @ MOUTH UPST EDWARDS RD

WAU 05090201-09 01

River Mile: 0.01 Storet ID: X02K38

Latitude/Longitude: 39.0791 / -83.7378

Drainage Area (mi2): 3.2

County: Highland

Ecoregion: IP

USGS Quad: Sugar Tree Ridge

Date Collected	7/27/2006	8/3/2006	8/31/2006	9/21/2006
Time	1325	1240	1220	1150
Temp (C)	24.17	26.64	21.83	13.64
D.O. (mg/l)	5.48	4.18	2.84	8.65
D.O. (% sat)	65.4	52.2	32.4	83.4
pH (fld) SU	7.81	7.72	7.67	8.1
Sp Cond (fld)(umhos/cm)	538	540	472	511
Sp Cond (lab)(umhos/cm)	517	519	460	494
Acidity (mg/l)	< 5.0	< 5.0	< 5.0	< 5.0
Alkalinity (mg/l)	224	211	226	155
Ammonia-N (mg/l)	0.051	0.145	0.128	< 0.050
BOD5 (mg/l)	2.5	2.4	3.3	< 2.0
COD (mg/l)	19	13	10	11
Chloride (mg/l)	24.2	25.0	22.3	18.8
Nitrate-nitrite-N (mg/l)	0.29	0.41	0.23	0.55
Nitrite-N (mg/l)	0.028	0.076	< 0.020	< 0.020
TKN (mg/l)	0.61	0.41	1.37	0.38
Phosphorus-T (mg/l)	0.066	0.062	0.185	0.130
Sulfate (mg/l)	24.1	21.8	23.6	35.0
TSS (mg/l)	84	14 J	86	10
TDS (mg/l)	310	302	272	290
Aluminum-T (µg/l)	< 200 UJ	< 200	2190	405 J
Arsenic-T (µg/l)	2.8	4.2	5.6	< 2.0
Barium-T (µg/l)	64	67	88	69
Cadmium-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20
Calcium-T (mg/l)	59	59	55	64
Chromium-T (µg/l)	< 30	< 30	< 30	< 30
Copper-T (µg/l)	< 10	< 10	< 10	< 10
Iron-T (µg/l)	237 J	292	3300	656 J
Lead-T (µg/l)	< 2.0	< 2.0	3.4	< 2.0
Magnesium-T (mg/l)	25	25	23	22
Manganese-T (µg/l)	112 J	173	424	324 J
Mercury-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20
Nickel-T (µg/l)	< 40	< 40	< 40	< 40
Potassium-T (mg/l)	6	7	8	6
Selenium-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0
Sodium-T (mg/l)	9	9	8	9
Strontium-T (µg/l)	132	127	119	122
Zinc-T (µg/l)	< 10	< 10	14	19 J
Hardness (mg/l CaCO3)	250	250	232	250

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

UJ - Analyte not detected above sample quantitation limit (QL).

RC - Result rejected; poor correlation with co-analyte

Appendix Table A-1 White Oak Creek Watershed Inorganic Water Chemistry Sampling Results (2006)

Site Location: # 26 TRIB TO E FK WHITE OAK CK (12.38) @ RIDGE RD

WAU 05090201-09 01

River Mile: 2.42 Storet ID: X02K37

Latitude/Longitude: 39.0761 / -83.7075

Drainage Area (mi2): 3.4

County: Highland

Ecoregion: IP

USGS Quad: Sugar Tree Ridge

Date Collected	7/27/2006	8/3/2006	8/31/2006	9/21/2006	9/28/2006
Time	1250	1155	1200	1220	1210
Temp (C)	24.61	28.82	21.71	14.13	15.49
D.O. (mg/l)	9.55	9.09	6.67	9.62	7.92
D.O. (% sat)	114.9	118	76	93.7	79.4
pH (fld) SU	7.92	7.85	7.78	7.97	7.79
Sp Cond (fld)(umhos/cm)	593	609	582	575	306
Sp Cond (lab)(umhos/cm)	570	578	565	565	298
Acidity (mg/l)	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Alkalinity (mg/l)	242	240	276	178	86.1
Ammonia-N (mg/l)	0.071	0.086	0.088	< 0.050	0.058
BOD5 (mg/l)	< 2.0	< 2.0	< 2.0	< 2.0	7.1
COD (mg/l)	< 10	10	< 10	< 10	24
Chloride (mg/l)	23.6	23.8	22.5	21.0	13.9
Nitrate-nitrite-N (mg/l)	0.39	0.16	0.66	0.42	0.74
Nitrite-N (mg/l)	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TKN (mg/l)	0.24	< 0.20	0.53	0.38	0.69
Phosphorus-T (mg/l)	0.037	0.029	0.116	0.039	0.259
Sulfate (mg/l)	35.0	33.5	40.4	45.1	22.4
TSS (mg/l)	39	11 J	13	< 5	77
TDS (mg/l)	360	360	344	332	212
Aluminum-T (µg/l)	312 J	306	< 200	< 200 UJ	2340
Arsenic-T (µg/l)	2.4	2.1	4.5	< 2.0	2.1
Barium-T (µg/l)	94	103	103	79	62
Cadmium-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Calcium-T (mg/l)	75	76	75	75	38
Chromium-T (µg/l)	< 30	< 30	< 30	< 30	< 30
Copper-T (µg/l)	< 10	< 10	< 10	< 10	< 10
Iron-T (µg/l)	994 J	1060	783	297 J	2780
Lead-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	2.6
Magnesium-T (mg/l)	26	26	27	25	12
Manganese-T (µg/l)	337 J	432	417	144 J	180
Mercury-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Nickel-T (µg/l)	< 40	< 40	< 40	< 40	< 40
Potassium-T (mg/l)	3	3	4	4	7
Selenium-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Sodium-T (mg/l)	8	8	9	10	8
Strontium-T (µg/l)	148	152	153	150	77
Zinc-T (µg/l)	< 10	< 10	< 10	40 J	15
Hardness (mg/l CaCO3)	294	297	298	290	144

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

UJ - Analyte not detected above sample quantitation limit (QL).

RC - Result rejected; poor correlation with co-analyte

Appendix Table A-1 White Oak Creek Watershed Inorganic Water Chemistry Sampling Results (2006)

Site Location: # 27 PLUM RUN @ WILDCAT RD

WAU 05090201-09 02

River Mile: 0.95 Storet ID: X02K34

Latitude/Longitude: 39.0388 / -83.7308

Drainage Area (mi²): 4.2

County: Highland

Ecoregion: IP

USGS Quad: Sugar Tree Ridge

Date Collected	7/27/2006	8/3/2006	8/31/2006	9/21/2006	9/28/2006
Time	1140	1220	1135	1130	1140
Temp (C)	23.66	27.6	21.83	13.65	15.67
D.O. (mg/l)	0.36	3.78	2.53	8	7.99
D.O. (% sat)	4.2	48	28.9	77.1	80.4
pH (fld) SU	7.59	7.86	7.48	7.77	7.78
Sp Cond (fld)(umhos/cm)	498	604	496	566.3	351.7
Sp Cond (lab)(umhos/cm)	483	582	485	557	345
Acidity (mg/l)	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Alkalinity (mg/l)	199	243	232	180	102
Ammonia-N (mg/l)	3.09	4.47	2.98	< 0.050	0.068
BOD5 (mg/l)	15	15	25	< 2.0	7.3
COD (mg/l)	36	73	27	11	18
Chloride (mg/l)	20.8	25.7	26.5	18.1	16.7
Nitrate-nitrite-N (mg/l)	< 0.10	< 0.10	0.16	1.06	1.10
Nitrite-N (mg/l)	< 0.020	0.051	0.174	< 0.020	< 0.020
TKN (mg/l)	4.30	5.49	4.05	0.40	0.68
Phosphorus-T (mg/l)	0.431	0.666	0.470	0.090	0.299
Sulfate (mg/l)	24.5	17.9	11.3	41.0	24.3
TSS (mg/l)	31	14 J	14	< 5	133
TDS (mg/l)	286	342	292	330	248
Aluminum-T (µg/l)	271 J	< 200	< 200	< 200 UJ	3090
Arsenic-T (µg/l)	6.7	11.7	10.0	< 2.0	3.1
Barium-T (µg/l)	104	124	103	89	74
Cadmium-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Calcium-T (mg/l)	56	65	48	79	48
Chromium-T (µg/l)	< 30	< 30	< 30	< 30	< 30
Copper-T (µg/l)	< 10	< 10	< 10	< 10	< 10
Iron-T (µg/l)	1340 J	1660	1460	279 J	3830
Lead-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	3.6
Magnesium-T (mg/l)	15	18	16	21	13
Manganese-T (µg/l)	1190 J	1450	561	48 J	226
Mercury-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Nickel-T (µg/l)	< 40	< 40	< 40	< 40	< 40
Potassium-T (mg/l)	15	21	24	6	8
Selenium-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Sodium-T (mg/l)	9	10	10	9	7
Strontium-T (µg/l)	138	175	161	210	104
Zinc-T (µg/l)	12	< 10	18	12 J	21
Hardness (mg/l CaCO ₃)	202	236	186	284	173

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

UJ - Analyte not detected above sample quantitation limit (QL).

RC - Result rejected; poor correlation with co-analyte

Appendix Table A-1 White Oak Creek Watershed Inorganic Water Chemistry Sampling Results (2006)

Site Location: # 28 PLUM RUN @ FENWICK RD

WAU 05090201-09 02

River Mile: 0.32 Storet ID: X02K33

Latitude/Longitude: 39.0349 / -83.7403

Drainage Area (mi2): 6.3

County: Highland

Ecoregion: IP

USGS Quad: Sugar Tree Ridge

Date Collected	7/27/2006	8/3/2006	8/31/2006	9/21/2006	9/28/2006
Time	1120	1105	1105	1050	1100
Temp (C)	22.76	24.87	21.34	12.55	15.64
D.O. (mg/l)	5.8	4.9	3.12	9.39	8.5
D.O. (% sat)	67.3	59.2	35.3	88.4	85.5
pH (fld) SU	7.87	7.88	7.73	7.99	7.7
Sp Cond (fld)(umhos/cm)	461	495	477	553.1	292.8
Sp Cond (lab)(umhos/cm)	445	471	459	543	292
Acidity (mg/l)	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Alkalinity (mg/l)	178	189	211	169	85.2
Ammonia-N (mg/l)	0.330	0.204	0.158	< 0.050	0.053
BOD5 (mg/l)	< 2.0	2.9	< 2.0	< 2.0	9.4
COD (mg/l)	16	15	< 10	11	21
Chloride (mg/l)	23.1	25.1	33.4	19.9	12.0
Nitrate-nitrite-N (mg/l)	0.68	0.17	0.15	0.41	0.80
Nitrite-N (mg/l)	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TKN (mg/l)	2.67	0.24	0.68	0.27	0.98
Phosphorus-T (mg/l)	0.121	0.043	0.142	0.077	0.315
Sulfate (mg/l)	27.7	23.3	18.1	43.1	21.6
TSS (mg/l)	8	6 J	9	< 5	178 PT
TDS (mg/l)	290	296	274	326	218
Aluminum-T (µg/l)	286 J	< 200	< 200	< 200 UJ	2790
Arsenic-T (µg/l)	< 2.0	3.0	3.7	< 2.0	2.1
Barium-T (µg/l)	66	65	69	74	66
Cadmium-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Calcium-T (mg/l)	57	58	51	75	42
Chromium-T (µg/l)	< 30	< 30	< 30	< 30	< 30
Copper-T (µg/l)	< 10	< 10	< 10	< 10	< 10
Iron-T (µg/l)	464 J	222	334	147 J	3580
Lead-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	4.0
Magnesium-T (mg/l)	16	16	17	21	12
Manganese-T (µg/l)	90 J	140	271	24 J	226
Mercury-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Nickel-T (µg/l)	< 40	< 40	< 40	< 40	< 40
Potassium-T (mg/l)	8	9	14	7	8
Selenium-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Sodium-T (mg/l)	10	11	14	10	5
Strontium-T (µg/l)	156	175	183	208	98
Zinc-T (µg/l)	< 10	< 10	< 10	< 10 UJ	25
Hardness (mg/l CaCO3)	208	211	197	274	154

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

UJ - Analyte not detected above sample quantitation limit (QL).

RC - Result rejected; poor correlation with co-analyte

Appendix Table A-1 White Oak Creek Watershed Inorganic Water Chemistry Sampling Results (2006)

Site Location: # 29 BELLS RUN @ TR 142A (WINKLE RD)

WAU 05090201-09 02

River Mile: 1.97 Storet ID: X02K32

Latitude/Longitude: 39.0354 / -83.7843

Drainage Area (mi²): 4

County: Highland

Ecoregion: IP

USGS Quad: Sardinia

Date Collected	7/27/2006	8/3/2006	8/31/2006	9/21/2006	9/28/2006
Time	1045	1035	1045	1030	1040
Temp (C)	22.89	25.26	20.53	11.94	15.66
D.O. (mg/l)	1.34	3.06	2.2	9.29	8.43
D.O. (% sat)	15.6	37.3	24.5	86.3	84.8
pH (fld) SU	7.86	7.98	7.64	7.84	7.62
Sp Cond (fld)(umhos/cm)	997	1084	488	717.4	199.2
Sp Cond (lab)(umhos/cm)	950	1030	470	710	203 RC
Acidity (mg/l)	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Alkalinity (mg/l)	402	402	210	168	44.9
Ammonia-N (mg/l)	19.0	13.2	6.67 RC	0.242	0.172
BOD5 (mg/l)	4.3	5.0	18	3.2	14
COD (mg/l)	61	45	39	20	35
Chloride (mg/l)	46.1	46.2	21.5	28.4	11.3
Nitrate-nitrite-N (mg/l)	0.12	0.20	< 0.10	1.26	1.30
Nitrite-N (mg/l)	0.113	0.161	< 0.020	0.210	0.028
TKN (mg/l)	22.6	14.2	5.98 RC	1.20	1.18
Phosphorus-T (mg/l)	2.53	1.83	2.96	0.304	0.892
Sulfate (mg/l)	45.8	84.0	31.2	110	19.0
TSS (mg/l)	< 5	< 5 UJ	28	15	174
TDS (mg/l)	544	626	300	478	184 RC
Aluminum-T (µg/l)	< 200 UJ	< 200	288	257 J	3760
Arsenic-T (µg/l)	23.2	21.7	18.0	3.8	3.0
Barium-T (µg/l)	130	125	94	82	64
Cadmium-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Calcium-T (mg/l)	86	102	41	86	23
Chromium-T (µg/l)	< 30	< 30	< 30	< 30	< 30
Copper-T (µg/l)	< 10	< 10	< 10	< 10	< 10
Iron-T (µg/l)	1460 J	951	2150	768 J	4400
Lead-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	5.3
Magnesium-T (mg/l)	33	41	15	29	7
Manganese-T (µg/l)	1590 J	1470	1010	101 J	197
Mercury-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Nickel-T (µg/l)	< 40	< 40	< 40	< 40	< 40
Potassium-T (mg/l)	37	38	26	12	12
Selenium-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Sodium-T (mg/l)	22	28	8	19	< 5
Strontium-T (µg/l)	520	652	246	522	66
Zinc-T (µg/l)	< 10	< 10	14	20 J	47
Hardness (mg/l CaCO ₃)	351	424	164	334	86

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

UJ - Analyte not detected above sample quantitation limit (QL).

RC - Result rejected; poor correlation with co-analyte

Appendix Table A-1 White Oak Creek Watershed Inorganic Water Chemistry Sampling Results (2006)

Site Location: # 30 SLABCAMP RUN @ FITE HAUCK RD

WAU 05090201-09 02

River Mile: 2.93 Storet ID: X02K31

Latitude/Longitude: 38.9908 / -83.7848

Drainage Area (mi²): 3.3

County: Brown

Ecoregion: IP

USGS Quad: Ash Ridge

Date Collected	7/27/2006	8/3/2006	8/31/2006	9/21/2006	9/28/2006
Time	1500	1440	1400	1400	1235
Temp (C)	23.22	27.38	21.38	13.58	15.67
D.O. (mg/l)	6.63	6.08	3.05	9.69	8.56
D.O. (% sat)	77.7	77	34.5	93.3	86.1
pH (fld) SU	7.84	7.79	7.71	8.19	7.88
Sp Cond (fld)(umhos/cm)	472	496	328	382	177
Sp Cond (lab)(umhos/cm)	460	484	311	381	164 RC
Acidity (mg/l)	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Alkalinity (mg/l)	175	185	152	106	42.5
Ammonia-N (mg/l)	0.068	0.087	< 0.050	< 0.050	< 0.050
BOD5 (mg/l)	< 2.0	2.6	2.9	< 2.0	11
COD (mg/l)	22	24	19	20	38
Chloride (mg/l)	31.2	32.8	5.9	11.2	9.1
Nitrate-nitrite-N (mg/l)	< 0.10	0.24	0.10	< 0.10	0.49
Nitrite-N (mg/l)	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TKN (mg/l)	0.62	0.45	0.45	0.47	0.92
Phosphorus-T (mg/l)	0.070	0.060	0.149	0.094	0.336
Sulfate (mg/l)	20.7	16.0	25.5	44.7	14.9
TSS (mg/l)	11	10	< 5	< 5	112
TDS (mg/l)	280	300	206	252	166 RC
Aluminum-T (µg/l)	< 200	< 200	217	< 200	3340
Arsenic-T (µg/l)	2.5	3.5	2.8	< 2.0	2.0
Barium-T (µg/l)	62	64	59	74	55
Cadmium-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Calcium-T (mg/l)	57	58	42	55	21
Chromium-T (µg/l)	< 30	< 30	< 30	< 30	< 30
Copper-T (µg/l)	< 10	< 10	< 10	< 10	< 10
Iron-T (µg/l)	147	265	394	301	3690
Lead-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	3.8
Magnesium-T (mg/l)	16	16	10	13	7
Manganese-T (µg/l)	377	520	692	136	158
Mercury-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Nickel-T (µg/l)	< 40	< 40	< 40	< 40	< 40
Potassium-T (mg/l)	8	8	8	6	8
Selenium-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Sodium-T (mg/l)	12	14	< 5	5	< 5
Strontium-T (µg/l)	193	200	136	166	65
Zinc-T (µg/l)	< 10	10	< 10	12	20
Hardness (mg/l CaCO ₃)	208	211	146	191	81

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

UJ - Analyte not detected above sample quantitation limit (QL).

RC - Result rejected; poor correlation with co-analyte

Appendix Table A-1 White Oak Creek Watershed Inorganic Water Chemistry Sampling Results (2006)

Site Location: # 31 SLABCAMP RUN @ PURDY RD UPST SARDINIA WWTP

WAU 05090201-09 02

River Mile: 1.13 Storet ID: X02W12

Latitude/Longitude: 39.0038 / -83.8085

Drainage Area (mi2): 7.8

County: Brown

Ecoregion: IP

USGS Quad: Sardinia

Date Collected	7/27/2006	8/3/2006	8/31/2006	9/21/2006	9/28/2006
Time	1350	1240	1245	1250	1110
Temp (C)	23.68	26.92	21.54	13.28	15.78
D.O. (mg/l)	5.52	4.17	2.03	8.48	8.49
D.O. (% sat)	65.3	52.3	23.1	81.1	85.7
pH (fld) SU	7.73	7.67	7.65	7.96	7.95
Sp Cond (fld)(umhos/cm)	638	603	681	477	261
Sp Cond (lab)(umhos/cm)	615	577	650	470	251
Acidity (mg/l)	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Alkalinity (mg/l)	161	164	165	126	66.8
Ammonia-N (mg/l)	0.100	0.133	0.192	< 0.050	0.052
BOD5 (mg/l)	2.1	2.3	< 2.0	< 2.0	8.9
COD (mg/l)	22	18	25	17	27
Chloride (mg/l)	47.8	43.7	40.4	19.8	11.8
Nitrate-nitrite-N (mg/l)	0.20	< 0.10	0.13	9.99	0.79
Nitrite-N (mg/l)	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TKN (mg/l)	0.84	0.32	0.64	0.40	0.33
Phosphorus-T (mg/l)	0.166	0.110	0.286	0.063	0.279
Sulfate (mg/l)	82.7	58.5	113	55.2	21.9
TSS (mg/l)	< 5	6	< 5	< 5	134
TDS (mg/l)	382	360	418	290	202
Aluminum-T (µg/l)	< 200	< 200	< 200	< 200	3520
Arsenic-T (µg/l)	3.7	4.6	4.1	2.0	< 2.0
Barium-T (µg/l)	97	88	119	80	63
Cadmium-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Calcium-T (mg/l)	64	59	57	59	34
Chromium-T (µg/l)	< 30	< 30	< 30	< 30	< 30
Copper-T (µg/l)	< 10	< 10	< 10	< 10	< 10
Iron-T (µg/l)	219	162	283	175	3970
Lead-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	4.6
Magnesium-T (mg/l)	16	15	14	14	10
Manganese-T (µg/l)	433	484	1080	170	208
Mercury-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Nickel-T (µg/l)	< 40	< 40	< 40	< 40	< 40
Potassium-T (mg/l)	25	21	32	13	7
Selenium-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Sodium-T (mg/l)	30	26	33	13	6
Strontium-T (µg/l)	422	361	419	293	108
Zinc-T (µg/l)	< 10	< 10	< 10	< 10	22
Hardness (mg/l CaCO3)	226	209	200	205	126

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

UJ - Analyte not detected above sample quantitation limit (QL).

RC - Result rejected; poor correlation with co-analyte

Appendix Table A-1 White Oak Creek Watershed Inorganic Water Chemistry Sampling Results (2006)

Site Location: # 32 SARDINA WWTP EFFLUENT TO SLABCAMP RUN

WAU 05090201-09 02

River Mile: 0.98 Storet ID: X02K30

Latitude/Longitude: 39.0047 / -83.8108

Drainage Area (mi²):

County: Brown

Ecoregion: IP

USGS Quad: Sardinia

Date Collected	7/27/2006	8/3/2006	8/31/2006	9/21/2006
Time	1340	1320	1220	1240
Temp (C)	24.53	26.77	24.27	20.45
D.O. (mg/l)	7.31	5.62	5.46	7.69
D.O. (% sat)	87.9	70.4	65.3	85.5
pH (fld) SU	7.22	7.36	7.42	7.75
Sp Cond (fld)(umhos/cm)	867	854	775	770
Sp Cond (lab)(umhos/cm)	835	809	742	794
Acidity (mg/l)	< 5.0	< 5.0	< 5.0	< 5.0
Alkalinity (mg/l)	107	98.9	122	80.9
Ammonia-N (mg/l)	0.236	0.252	0.278	0.383
BOD5 (mg/l)	2.1	4.4 J	< 2.0	2.7
COD (mg/l)	19	18	10	17
Chloride (mg/l)	103	99.2	92.8	90.6
Nitrate-nitrite-N (mg/l)	15.9	14.2	9.39	15.8
Nitrite-N (mg/l)	0.084	0.085	0.091	0.062
TKN (mg/l)	1.76	1.50	1.56	1.70
Phosphorus-T (mg/l)	3.86	4.46	2.27	3.07
Sulfate (mg/l)	96.6	88.7	86.3	85.7
TSS (mg/l)	13	17	< 5	6
TDS (mg/l)	510	526	476	490
Aluminum-T (µg/l)	< 200	< 200	< 200	< 200
Arsenic-T (µg/l)	2.0	< 2.0	< 2.0	< 2.0
Barium-T (µg/l)	19	22	17	21
Cadmium-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20
Calcium-T (mg/l)	52	52	49	57
Chromium-T (µg/l)	< 30	< 30	< 30	< 30
Copper-T (µg/l)	< 10	< 10	< 10	< 10
Iron-T (µg/l)	137	248	133	143
Lead-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0
Magnesium-T (mg/l)	21	20	19	22
Manganese-T (µg/l)	25	33	31	38
Mercury-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20
Nickel-T (µg/l)	< 40	< 40	< 40	< 40
Potassium-T (mg/l)	11	13	11	11
Selenium-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0
Sodium-T (mg/l)	69	73	64	66
Strontium-T (µg/l)	266	264	242	269
Zinc-T (µg/l)	59	78	66	50
Hardness (mg/l CaCO ₃)	216	212	200	233

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

UJ - Analyte not detected above sample quantitation limit (QL).

RC - Result rejected; poor correlation with co-analyte

Appendix Table A-1 White Oak Creek Watershed Inorganic Water Chemistry Sampling Results (2006)

Site Location: # 33 BROWNS RUN @ STEPHAN RD

WAU 05090201-09 02

River Mile: 0.1 Storet ID: X02K29

Latitude/Longitude: 38.9968 / -83.8541

Drainage Area (mi²): 3.9

County: Brown

Ecoregion: IP

USGS Quad: Ash Ridge

Date Collected	7/27/2006	8/3/2006	8/31/2006	9/21/2006	9/28/2006
Time	1530	1510	1430	1420	1305
Temp (C)	23.21	27.35	21.32	15.09	15.58
D.O. (mg/l)	8.09	8.08	6.05	9.69	8.47
D.O. (% sat)	94.8	102.2	68.4	96.3	85.1
pH (fld) SU	8.12	8.17	8.05	8.06	7.71
Sp Cond (fld)(umhos/cm)	427	425	371	402	178
Sp Cond (lab)(umhos/cm)	416	394	353	396	174 RC
Acidity (mg/l)	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Alkalinity (mg/l)	128	122	122	97.3	39.6
Ammonia-N (mg/l)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
BOD5 (mg/l)	< 2.0	< 2.0	< 2.0	< 2.0	16
COD (mg/l)	16	18	< 10	< 10	47
Chloride (mg/l)	25.8	25.8	23.2	22.0	11.7
Nitrate-nitrite-N (mg/l)	0.15	0.93	0.19	0.20	0.80
Nitrite-N (mg/l)	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TKN (mg/l)	< 0.20	< 0.20	0.30	0.45	0.93
Phosphorus-T (mg/l)	0.180	0.161	0.181	0.114	0.611
Sulfate (mg/l)	45.7	43.6	42.0	48.4	12.5
TSS (mg/l)	< 5	< 5	< 5	< 5	143
TDS (mg/l)	252	248	224	242	178 RC
Aluminum-T (µg/l)	< 200	< 200	< 200	< 200	3170
Arsenic-T (µg/l)	2.4	3.4	< 2.0	< 2.0	< 2.0
Barium-T (µg/l)	41	38	35	48	51
Cadmium-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Calcium-T (mg/l)	50	48	40	51	22
Chromium-T (µg/l)	< 30	< 30	< 30	< 30	< 30
Copper-T (µg/l)	< 10	< 10	< 10	< 10	< 10
Iron-T (µg/l)	123	136	154	238	3160
Lead-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	4.7
Magnesium-T (mg/l)	13	12	10	13	6
Manganese-T (µg/l)	52	47	51	93	152
Mercury-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Nickel-T (µg/l)	< 40	< 40	< 40	< 40	< 40
Potassium-T (mg/l)	6	5	3	4	12
Selenium-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Sodium-T (mg/l)	14	14	12	13	< 5
Strontium-T (µg/l)	128	126	108	127	53
Zinc-T (µg/l)	< 10	< 10	< 10	< 10	24
Hardness (mg/l CaCO ₃)	178	169	141	181	80

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

UJ - Analyte not detected above sample quantitation limit (QL).

RC - Result rejected; poor correlation with co-analyte

Appendix Table A-1 White Oak Creek Watershed Inorganic Water Chemistry Sampling Results (2006)

Site Location: # 34 STERLING RUN @ MOON RD

WAU 05090201-10 01

River Mile: 11.35 Storet ID: X02K18

Latitude/Longitude: 39.0923 / -83.8914

Drainage Area (mi²): 3.4

County: Brown

Ecoregion: IP

USGS Quad: Mount Orab

Date Collected	7/26/2006	8/2/2006	9/20/2006	9/27/2006
Time	1250	1300	1245	1400
Temp (C)	21.69	24.98	14.54	16.83
D.O. (mg/l)	3.6	4.15	7.16	7.94
D.O. (% sat)	41	50.3	70.3	82
pH (fld) SU	7.4	7.42	7.64	7.89
Sp Cond (fld)(umhos/cm)	345	283	285.3	342.7
Sp Cond (lab)(umhos/cm)	323	268	278	321
Acidity (mg/l)	< 5.0	< 5.0	< 5.0	< 5.0
Alkalinity (mg/l)	109	98.5	72.5	82.1
Ammonia-N (mg/l)	0.127	0.152	< 0.050	0.061
BOD5 (mg/l)	2.2	2.0	2.5	2.7
COD (mg/l)	24	26	34	38
Chloride (mg/l)	25.8	13.5	11.8	17.1
Nitrate-nitrite-N (mg/l)	0.23	0.12	< 0.10	0.17
Nitrite-N (mg/l)	< 0.020	< 0.020	< 0.020	< 0.020
TKN (mg/l)	0.93	0.57	0.98	1.09
Phosphorus-T (mg/l)	0.526	0.498	0.466	0.597
Sulfate (mg/l)	24.8	15.8	30.4	34.1
TSS (mg/l)	30	8	19	18
TDS (mg/l)	250	188	214	242
Aluminum-T (µg/l)	784	344 J	682 J	812
Arsenic-T (µg/l)	5.6	6.7	2.7	2.9
Barium-T (µg/l)	59	43	53	58
Cadmium-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20
Calcium-T (mg/l)	40	33	36	41
Chromium-T (µg/l)	< 30	< 30	< 30	< 30
Copper-T (µg/l)	< 10	< 10	< 10	< 10
Iron-T (µg/l)	1100	551 J	844	1010
Lead-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0
Magnesium-T (mg/l)	10	8	9	11
Manganese-T (µg/l)	295	403	24	34
Mercury-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20
Nickel-T (µg/l)	< 40	< 40	< 40	< 40
Potassium-T (mg/l)	15	13	13	13
Selenium-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0
Sodium-T (mg/l)	7	5	5	7
Strontium-T (µg/l)	153	132	114	140
Zinc-T (µg/l)	< 10	< 10	40 B	< 10
Hardness (mg/l CaCO ₃)	141	115	127	148

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

UJ - Analyte not detected above sample quantitation limit (QL).

RC - Result rejected; poor correlation with co-analyte

Appendix Table A-1 White Oak Creek Watershed Inorganic Water Chemistry Sampling Results (2006)

Site Location: # 35 STERLING RUN @ GREENBUSH EAST RD

WAU 05090201-10 01

River Mile: 9.65 Storet ID: X02K17

Latitude/Longitude: 39.0693 / -83.8973

Drainage Area (mi2): 6.1

County: Brown

Ecoregion: IP

USGS Quad: Mount Orab

Date Collected	7/26/2006	8/2/2006	8/30/2006	9/20/2006	9/27/2006
Time	1230	1240	1005	1230	1345
Temp (C)	21.76	24.89	21.89	14.64	15.91
D.O. (mg/l)	3.51	2.36	1.18	6.23	7.8
D.O. (% sat)	40	28.6	13.5	61.3	78.9
pH (fld) SU	7.45	7.38	7.52	7.64	7.82
Sp Cond (fld)(umhos/cm)	393	451	405	303.4	354.5
Sp Cond (lab)(umhos/cm)	371	432	404	315	311
Acidity (mg/l)	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Alkalinity (mg/l)	124	147	178	83.3	82.7
Ammonia-N (mg/l)	0.099	0.245	0.195	< 0.050	0.064
BOD5 (mg/l)	10	3.8	4.1	2.5	3.4
COD (mg/l)	30	34	21	34	41
Chloride (mg/l)	32.7	41.0	36.8	14.7	16.5
Nitrate-nitrite-N (mg/l)	0.34	0.13	< 0.10	< 0.10	0.11
Nitrite-N (mg/l)	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TKN (mg/l)	0.87	0.84	0.80	0.59	0.76
Phosphorus-T (mg/l)	0.636	0.819	0.908	0.462	0.456
Sulfate (mg/l)	22.8	16.8	< 5.0	33.9	29.9
TSS (mg/l)	23	54	5	21	51
TDS (mg/l)	258	262	244	226	220
Aluminum-T (µg/l)	< 200	819 J	< 200	324 J	940
Arsenic-T (µg/l)	7.8	9.8	13.5	3.0	2.7
Barium-T (µg/l)	49	70	64	54	58
Cadmium-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Calcium-T (mg/l)	41	47	39	39	42
Chromium-T (µg/l)	< 30	< 30	< 30	< 30	< 30
Copper-T (µg/l)	< 10	< 10	< 10	< 10	< 10
Iron-T (µg/l)	445	1490 J	793	569	1280
Lead-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Magnesium-T (mg/l)	12	14	12	10	11
Manganese-T (µg/l)	598	1400	2650	96	66
Mercury-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Nickel-T (µg/l)	< 40	< 40	< 40	< 40	< 40
Potassium-T (mg/l)	12	12	11	12	12
Selenium-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Sodium-T (mg/l)	14	20	16	6	7
Strontium-T (µg/l)	191	220	188	147	146
Zinc-T (µg/l)	< 10	< 10	< 10	14 B	11
Hardness (mg/l CaCO3)	152	175	147	138	150

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

UJ - Analyte not detected above sample quantitation limit (QL).

RC - Result rejected; poor correlation with co-analyte

Appendix Table A-1 White Oak Creek Watershed Inorganic Water Chemistry Sampling Results (2006)

Site Location: # 36 STERLING RUN @ US RT 68 UPST MOUNT ORAB

WAU 05090201-10 01

River Mile: 6.74 Storet ID: X02W05

Latitude/Longitude: 39.0394 / -83.9194

Drainage Area (mi2): 11.8

County: Brown

Ecoregion: IP

USGS Quad: Mount Orab

Date Collected	7/26/2006	8/2/2006	8/30/2006	9/20/2006	9/27/2006
Time	1125	1135	1215	1105	1215
Temp (C)	21.88	25.37	22.4	14.39	15.85
D.O. (mg/l)	6.15	3.8	4.73	7.56	7.68
D.O. (% sat)	70.2	46.4	54.6	74.1	77.7
pH (fld) SU	7.85	7.82	7.78	7.52	8.06
Sp Cond (fld)(umhos/cm)	506	641	524	569.2	456.2
Sp Cond (lab)(umhos/cm)	488	616	506	573	435
Acidity (mg/l)	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Alkalinity (mg/l)	148	172	169	120	101
Ammonia-N (mg/l)	0.113	0.053	< 0.050	0.053	0.067
BOD5 (mg/l)	2.0	2.0	< 2.0	< 2.0	2.4
COD (mg/l)	24	32	< 10	14	33
Chloride (mg/l)	49.0	56.1	46.3	48.4	23.8
Nitrate-nitrite-N (mg/l)	< 0.10	< 0.10	< 0.10	0.12	0.11
Nitrite-N (mg/l)	0.034	< 0.020	< 0.020	< 0.020	< 0.020
TKN (mg/l)	1.12	0.59	0.50	0.32	1.03
Phosphorus-T (mg/l)	0.222	0.146	0.261	0.254	0.324
Sulfate (mg/l)	36.5	65.5	54.2	81.3	58.2
TSS (mg/l)	< 5	9	7	6	< 5
TDS (mg/l)	324	376	308	364	290
Aluminum-T (µg/l)	< 200	364 J	< 200	334 J	491
Arsenic-T (µg/l)	4.5	5.1	4.7	2.4	3.4
Barium-T (µg/l)	73	84	59	83	68
Cadmium-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Calcium-T (mg/l)	55	67	52	68	55
Chromium-T (µg/l)	< 30	< 30	< 30	< 30	< 30
Copper-T (µg/l)	< 10	< 10	< 10	< 10	78
Iron-T (µg/l)	396	727 J	337	863	739
Lead-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Magnesium-T (mg/l)	15	21	13	19	14
Manganese-T (µg/l)	279	284	126	202	115
Mercury-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Nickel-T (µg/l)	< 40	< 40	< 40	< 40	< 40
Potassium-T (mg/l)	10	10	5	8	9
Selenium-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Sodium-T (mg/l)	20	28	30	25	12
Strontium-T (µg/l)	249	391	223	299	211
Zinc-T (µg/l)	< 10	< 10	< 10	24 B	46
Hardness (mg/l CaCO3)	199	254	183	248	195

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

UJ - Analyte not detected above sample quantitation limit (QL).

RC - Result rejected; poor correlation with co-analyte

Appendix Table A-1 White Oak Creek Watershed Inorganic Water Chemistry Sampling Results (2006)

Site Location: # 37 STERLING RUN @ MT ORAB WATER INTAKE

WAU 05090201-10 01

River Mile: 6.47 Storet ID: X02K14

Latitude/Longitude: 39.0343 / -83.9204

Drainage Area (mi2): 19.7

County: Brown

Ecoregion: IP

USGS Quad: Mount Orab

Date Collected	7/26/2006	8/2/2006	8/30/2006	9/20/2006	9/27/2006
Time	1110	1120	1215	1030	1310
Temp (C)	23.15	25.83	23.67	14.78	16.79
D.O. (mg/l)	1.72	1.7	3.28	4.84	6.13
D.O. (% sat)	20.1	20.9	38.8	47.9	63.2
pH (fld) SU	7.38	7.35	7.57	7.6	7.87
Sp Cond (fld)(umhos/cm)	426	517	413	426.7	412.3
Sp Cond (lab)(umhos/cm)	409	514	392	405	390
Acidity (mg/l)	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Alkalinity (mg/l)	107	139	132	95.5	95.0
Ammonia-N (mg/l)	0.242	0.445	< 0.050	0.090	0.074
BOD5 (mg/l)	4.7	2.4	5.6	2.6	2.3
COD (mg/l)	30	37	12	25	35
Chloride (mg/l)	50.6	66.4	41.8	34.1	27.2
Nitrate-nitrite-N (mg/l)	0.36	0.11	< 0.10	< 0.10	0.16
Nitrite-N (mg/l)	0.022	< 0.020	< 0.020	< 0.020	< 0.020
TKN (mg/l)	1.18	1.32	0.39	0.35	0.91
Phosphorus-T (mg/l)	0.340	0.298	0.199	0.171	0.267
Sulfate (mg/l)	27.8	22.1	30.5	44.3	39.9
TSS (mg/l)	24	5	19	20	7
TDS (mg/l)	290	324	242	278	254
Aluminum-T (µg/l)	589	< 200 UJ	533	508 J	573
Arsenic-T (µg/l)	6.6	10.1	5.7	3.3	4.3
Barium-T (µg/l)	75	85	64	68	66
Cadmium-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Calcium-T (mg/l)	45	56	43	49	46
Chromium-T (µg/l)	< 30	< 30	< 30	< 30	< 30
Copper-T (µg/l)	< 10	< 10	< 10	< 10	< 10
Iron-T (µg/l)	1370	836 J	1400	1050	970
Lead-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Magnesium-T (mg/l)	12	15	10	12	12
Manganese-T (µg/l)	620	913	423	224	147
Mercury-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Nickel-T (µg/l)	< 40	< 40	< 40	< 40	< 40
Potassium-T (mg/l)	12	12	6	7	9
Selenium-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Sodium-T (mg/l)	14	20	21	15	12
Strontium-T (µg/l)	207	346	290	238	209
Zinc-T (µg/l)	< 10	< 10	< 10	28 B	< 10
Hardness (mg/l CaCO3)	162	202	148	172	164

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

UJ - Analyte not detected above sample quantitation limit (QL).

RC - Result rejected; poor correlation with co-analyte

Appendix Table A-1 White Oak Creek Watershed Inorganic Water Chemistry Sampling Results (2006)

Site Location: # 38 STERLING RUN @ SR 774 DST LAKE GRANT

WAU 05090201-10 01

River Mile: 3.08 Storet ID: X02K13

Latitude/Longitude: 38.9962 / -83.929

Drainage Area (mi2): 26.3

County: Brown

Ecoregion: IP

USGS Quad: Hamersville

Date Collected	7/26/2006	8/2/2006	8/30/2006	9/20/2006	9/27/2006
Time	1615	1315	1405	1305	1315
Temp (C)	30.24	29.07	23.96	19.83	20.78
D.O. (mg/l)	5.38	5.31	5.4	9.94	9.21
D.O. (% sat)	71.6	69.2	64.1	109	102.9
pH (fld) SU	8.2	7.73	8	8.81	8.31
Sp Cond (fld)(umhos/cm)	335	372	396	180	204
Sp Cond (lab)(umhos/cm)	311	340	385	177	200
Acidity (mg/l)	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Alkalinity (mg/l)	98.4	111	141	42.4	47.7
Ammonia-N (mg/l)	0.117	0.173	< 0.050	0.054	0.099
BOD5 (mg/l)	6.2	2.2	< 2.0	4.5	4.0
COD (mg/l)	24	32	< 10	20	16
Chloride (mg/l)	31.7	32.5	31.6	10.8	11.2
Nitrate-nitrite-N (mg/l)	< 0.10	0.16	0.23	0.21	0.25
Nitrite-N (mg/l)	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TKN (mg/l)	1.72	0.84	0.49	0.70	0.62
Phosphorus-T (mg/l)	0.250	0.310	0.051	0.216	0.144
Sulfate (mg/l)	20.4	15.0	34.2	14.3	17.5
TSS (mg/l)	9	< 5	< 5	7	9
TDS (mg/l)	226	222	228	120	134
Aluminum-T (µg/l)	< 200	< 200	< 200	< 200	295
Arsenic-T (µg/l)	8.1	9.4	5.1	2.8	3.2
Barium-T (µg/l)	33	51	50	27	35
Cadmium-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Calcium-T (mg/l)	36	41	39	20	23
Chromium-T (µg/l)	< 30	< 30	< 30	< 30	< 30
Copper-T (µg/l)	< 10	< 10	< 10	< 10	< 10
Iron-T (µg/l)	307	451	325	428	618
Lead-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Magnesium-T (mg/l)	9	11	14	5	6
Manganese-T (µg/l)	160	379	56	76	90
Mercury-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Nickel-T (µg/l)	< 40	< 40	< 40	< 40	< 40
Potassium-T (mg/l)	10	9	4	7	7
Selenium-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Sodium-T (mg/l)	10	11	15	< 5	5
Strontium-T (µg/l)	150	172	157	75	89
Zinc-T (µg/l)	< 10	< 10	< 10	< 10	< 10
Hardness (mg/l CaCO3)	127	148	155	71	82

B - Result estimated, analyte detected in blank

J - Analyte identified, value estimated

PT - Result estimated, sample was not analyzed within required holding time

UJ - Analyte not detected above sample quantitation limit (QL).

RC - Result rejected; poor correlation with co-analyte

Appendix Table A-1 White Oak Creek Watershed Inorganic Water Chemistry Sampling Results (2006)

Site Location: # 39 STERLING RUN @ STERLING RD SOUTHERN FORD, S OF MOUNT ORAB

WAU 05090201-10 01

River Mile: 0.59 Storet ID: X02W06

Latitude/Longitude: 38.968 / -83.9203

Drainage Area (mi2): 29.7

County: Brown

Ecoregion: IP

USGS Quad: Hamersville

Date Collected	7/26/2006	8/2/2006	8/30/2006	9/20/2006	9/27/2006
Time	1255	1055	1140	1050	1130
Temp (C)	23.74	25.3	23.05	15.94	16.52
D.O. (mg/l)	6.45	4.2	6.24	8.72	8.31
D.O. (% sat)	76.3	51.2	73	88.4	85.2
pH (fld) SU	7.77	7.6	7.85	8.23	8.04
Sp Cond (fld)(umhos/cm)	428	723	917	542	320
Sp Cond (lab)(umhos/cm)	402	693	880	526	313
Acidity (mg/l)	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Alkalinity (mg/l)	98.6	112	134	82.8	69.4
Ammonia-N (mg/l)	0.065	0.098	0.066	0.060	0.052
BOD5 (mg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
COD (mg/l)	24	24	15	28	10
Chloride (mg/l)	46.1	88.2	104	53.7	21.3
Nitrate-nitrite-N (mg/l)	1.47	5.37	11.5	6.01	1.23
Nitrite-N (mg/l)	< 0.020	0.044	0.030	0.065	< 0.020
TKN (mg/l)	0.93	1.26	1.37	1.09	0.79
Phosphorus-T (mg/l)	0.229	0.196	0.383	0.484	0.186
Sulfate (mg/l)	35.0	81.7	126	57.9	27.8
TSS (mg/l)	< 5	7	< 5	< 5	< 5
TDS (mg/l)	298	452	528	344	194
Aluminum-T (µg/l)	< 200	< 200	< 200	< 200	< 200
Arsenic-T (µg/l)	5.8	3.3	3.9	2.2	2.0
Barium-T (µg/l)	46	71	67	49	38
Cadmium-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Calcium-T (mg/l)	39	57	63	50	36
Chromium-T (µg/l)	< 30	< 30	< 30	< 30	< 30
Copper-T (µg/l)	< 10	< 10	< 10	< 10	< 10
Iron-T (µg/l)	224	268	131	190	294
Lead-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Magnesium-T (mg/l)	12	20	21	14	9
Manganese-T (µg/l)	120	149	36	38	47
Mercury-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Nickel-T (µg/l)	< 40	< 40	< 40	< 40	< 40
Potassium-T (mg/l)	10	12	13	9	7
Selenium-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Sodium-T (mg/l)	20	52	71	32	12
Strontium-T (µg/l)	207	343	387	230	141
Zinc-T (µg/l)	< 10	< 10	15	13	< 10
Hardness (mg/l CaCO3)	147	225	244	182	127

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

UJ - Analyte not detected above sample quantitation limit (QL).

RC - Result rejected; poor correlation with co-analyte

Appendix Table A-1 White Oak Creek Watershed Inorganic Water Chemistry Sampling Results (2006)

Site Location: # 40 TRIB TO STERLING RUN (6.68) @ WAITS RD UPST TRIB AT RM 2.40

WAU 05090201-10 01

River Mile: 2.41 Storet ID: X02K16

Latitude/Longitude: 39.0661 / -83.9271

Drainage Area (mi2): 3.7

County: Brown

Ecoregion: IP

USGS Quad: Mount Orab

Date Collected	7/26/2006	8/2/2006	9/20/2006	9/27/2006
Time	1205	1230	1215	1325
Temp (C)	21.65	24.81	14.43	17.44
D.O. (mg/l)	2.4	2.34	6.51	6.99
D.O. (% sat)	27.2	28.2	63.9	73
pH (fld) SU	7.24	7.32	7.6	7.92
Sp Cond (fld)(umhos/cm)	511	370	589.6	352.1
Sp Cond (lab)(umhos/cm)	490	357	567	328
Acidity (mg/l)	< 5.0	< 5.0	< 5.0	< 5.0
Alkalinity (mg/l)	83.3	94.2	121	75.2
Ammonia-N (mg/l)	0.170	0.186	< 0.050	0.059
BOD5 (mg/l)	2.2	3.1	2.2	2.0
COD (mg/l)	42	37	28	33
Chloride (mg/l)	88.5	45.2	49.7	25.3
Nitrate-nitrite-N (mg/l)	0.12	0.15	< 0.10	0.23
Nitrite-N (mg/l)	< 0.020	< 0.020	< 0.020	< 0.020
TKN (mg/l)	2.05	1.13	0.89	0.61
Phosphorus-T (mg/l)	0.384	0.631	0.329	0.384
Sulfate (mg/l)	24.4	18.2	78.4	33.3
TSS (mg/l)	10	45	11	6
TDS (mg/l)	374	236	370	236
Aluminum-T (µg/l)	278	1100 J	< 200 UJ	1270
Arsenic-T (µg/l)	4.6	8.7	2.0	3.2
Barium-T (µg/l)	93	82	73	67
Cadmium-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20
Calcium-T (mg/l)	52	39	67	40
Chromium-T (µg/l)	< 30	< 30	< 30	< 30
Copper-T (µg/l)	< 10	< 10	< 10	< 10
Iron-T (µg/l)	963	2120 J	272	1440
Lead-T (µg/l)	< 2.0	2.2	< 2.0	< 2.0
Magnesium-T (mg/l)	14	11	17	11
Manganese-T (µg/l)	1090	1380	110	89
Mercury-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20
Nickel-T (µg/l)	< 40	< 40	< 40	< 40
Potassium-T (mg/l)	19	14	9	10
Selenium-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0
Sodium-T (mg/l)	9	10	22	11
Strontium-T (µg/l)	180	132	197	124
Zinc-T (µg/l)	< 10	13	21 B	11
Hardness (mg/l CaCO3)	187	143	237	145

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

UJ - Analyte not detected above sample quantitation limit (QL).

RC - Result rejected; poor correlation with co-analyte

Appendix Table A-1 White Oak Creek Watershed Inorganic Water Chemistry Sampling Results (2006)

Site Location: # 41 TRIB TO STERLING RUN (6.68) @ BARDWELL WEST RD

WAU 05090201-10 01

River Mile: 0.68 Storet ID: X02K15

Latitude/Longitude: 39.047 / -83.9247

Drainage Area (mi2): 6.9

County: Brown

Ecoregion: IP

USGS Quad: Mount Orab

Date Collected	7/26/2006	8/2/2006	8/30/2006	9/20/2006	9/27/2006
Time	1140	1205	1250	1140	1240
Temp (C)	23.78	26.37	23.91	16.65	16.99
D.O. (mg/l)	7.39	5.01	2.51	3.26	5.33
D.O. (% sat)	87.5	62.2	29.8	33.6	55.2
pH (fld) SU	7.62	7.43	7.49	7.53	7.81
Sp Cond (fld)(umhos/cm)	394	421	555	343.6	322.8
Sp Cond (lab)(umhos/cm)	365	403	534	323	308
Acidity (mg/l)	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Alkalinity (mg/l)	75.8	90.5	198	77.1	77.1
Ammonia-N (mg/l)	< 0.050	0.073	< 0.050	0.101	0.059
BOD5 (mg/l)	4.8	3.5	5.2	2.1	3.0
COD (mg/l)	42	37	35	20	30
Chloride (mg/l)	63.0	60.8	68.4	25.1	21.6
Nitrate-nitrite-N (mg/l)	< 0.10	0.10	< 0.10	< 0.10	0.14
Nitrite-N (mg/l)	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TKN (mg/l)	1.44	1.04	1.05	0.59	0.90
Phosphorus-T (mg/l)	0.361	0.422	0.294	0.348	0.350
Sulfate (mg/l)	17.3	16.3	5.7	31.1	26.0
TSS (mg/l)	< 5	57	8	9	11
TDS (mg/l)	304	270	350	222	218
Aluminum-T (µg/l)	< 200	< 200 J	< 200	976 J	816
Arsenic-T (µg/l)	7.2	9.1	11.5	4.7	2.9
Barium-T (µg/l)	52	58	106	73	60
Cadmium-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Calcium-T (mg/l)	42	41	60	40	38
Chromium-T (µg/l)	< 30	< 30	< 30	< 30	< 30
Copper-T (µg/l)	< 10	< 10	< 10	< 10	< 10
Iron-T (µg/l)	576	725 J	659	1370	1140
Lead-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Magnesium-T (mg/l)	11	11	15	10	10
Manganese-T (µg/l)	820	1080	2280	608	266
Mercury-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Nickel-T (µg/l)	< 40	< 40	< 40	< 40	< 40
Potassium-T (mg/l)	14	14	17	10	9
Selenium-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Sodium-T (mg/l)	7	13	16	10	8
Strontium-T (µg/l)	168	166	288	156	150
Zinc-T (µg/l)	< 10	< 10	< 10	41 B	15
Hardness (mg/l CaCO3)	150	148	212	141	136

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

UJ - Analyte not detected above sample quantitation limit (QL).

RC - Result rejected; poor correlation with co-analyte

Appendix Table A-1 White Oak Creek Watershed Inorganic Water Chemistry Sampling Results (2006)

Site Location: # 42 SNAPPING TURTLE RUN UPST MOUNT ORAB WWTP

WAU 05090201-10 01

River Mile: 0.55 Storet ID: X02W07

Latitude/Longitude: 38.9939 / -83.9211

Drainage Area (mi2): 1.1

County: Brown

Ecoregion: IP

USGS Quad: Hamersville

Date Collected	7/26/2006	8/2/2006	8/30/2006	9/20/2006	9/27/2006
Time	1040	1030	1110	1010	1140
Temp (C)	20.21	23.28	21.31	14.29	15.42
D.O. (mg/l)	3.09	2.75	3.1	6.06	6.58
D.O. (% sat)	34.2	32.3	35	59.3	66
pH (fld) SU	7.68	7.72	7.65	7.35	7.89
Sp Cond (fld)(umhos/cm)	732	732	692	738.6	557.8
Sp Cond (lab)(umhos/cm)	698	689	684	715	527
Acidity (mg/l)	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Alkalinity (mg/l)	259	264	268	187	147
Ammonia-N (mg/l)	0.130	0.197	0.140	0.052	0.088
BOD5 (mg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
COD (mg/l)	13	13	< 10	14	16
Chloride (mg/l)	52.3	49.0	52.5	62.2	31.7
Nitrate-nitrite-N (mg/l)	0.11	0.30	0.47	0.32	0.30
Nitrite-N (mg/l)	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TKN (mg/l)	0.52	0.43	0.39	0.46	0.45
Phosphorus-T (mg/l)	0.108	0.136	0.174	0.094	0.583
Sulfate (mg/l)	52.8	44.7	65.3	64.9	45.5
TSS (mg/l)	5	6	9	< 5	29
TDS (mg/l)	460	434	418	446	314
Aluminum-T (µg/l)	< 200	323 J	< 200	< 200 UJ	736
Arsenic-T (µg/l)	4.6	6.1	5.1	2.1	2.9
Barium-T (µg/l)	81	88	76	88	83
Cadmium-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Calcium-T (mg/l)	85	85	78	89	72
Chromium-T (µg/l)	< 30	< 30	< 30	< 30	< 30
Copper-T (µg/l)	< 10	< 10	< 10	< 10	< 10
Iron-T (µg/l)	293	756 J	318	482	1460
Lead-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Magnesium-T (mg/l)	28	30	26	27	21
Manganese-T (µg/l)	426	626	292	77	199
Mercury-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Nickel-T (µg/l)	< 40	< 40	< 40	< 40	< 40
Potassium-T (mg/l)	5	5	5	5	5
Selenium-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Sodium-T (mg/l)	28	24	28	31	16
Strontium-T (µg/l)	178	188	168	172	138
Zinc-T (µg/l)	< 10	< 10	< 10	366 B	12
Hardness (mg/l CaCO3)	328	336	302	333	266

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

UJ - Analyte not detected above sample quantitation limit (QL).

RC - Result rejected; poor correlation with co-analyte

Appendix Table A-1 White Oak Creek Watershed Inorganic Water Chemistry Sampling Results (2006)

Site Location: # 43 MOUNT ORAB WWTP EFFLUENT TO SNAPPING TURTLE RUN

WAU 05090201-10 01

River Mile: 0.46 Storet ID: X02K12

Latitude/Longitude: 38.9926 / -83.9216

Drainage Area (mi2):

County: Brown

Ecoregion: IP

USGS Quad: Hamersville

Date Collected	7/26/2006	8/2/2006	8/30/2006	9/20/2006	9/27/2006
Time	1030	1025	1045	0950	1117
Temp (C)	23.04	25.15	24.1	19.61	19.55
D.O. (mg/l)	7.31	8.08	7.42	8.95	9.07
D.O. (% sat)	85.5	98.3	88.6	97.9	99.2
pH (fld) SU	8.08	8	7.96	7.97	8.26
Sp Cond (fld)(umhos/cm)	1079	1067	976	1020.3	1021.3
Sp Cond (lab)(umhos/cm)	1030	1020	957	976	962
Acidity (mg/l)	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Alkalinity (mg/l)	125	126	119	85.1	119
Ammonia-N (mg/l)	0.137	0.905	0.153	0.142	0.118
BOD5 (mg/l)	2.9	5.2	4.4	5.0	2.5
COD (mg/l)	27	59	18	34	24
Chloride (mg/l)	127	131	118	132	126
Nitrate-nitrite-N (mg/l)	19.3	17.7	22.8	22.9	14.7
Nitrite-N (mg/l)	0.195	1.55	0.161	0.412	0.161
TKN (mg/l)	2.24	3.62	2.65	2.12	1.68
Phosphorus-T (mg/l)	0.692	1.35	1.31	1.43	0.746
Sulfate (mg/l)	142	130	124	125	113
TSS (mg/l)	< 5	5	9	< 5	5
TDS (mg/l)	708	656	616	662	706
Aluminum-T (µg/l)	< 200	< 200 UJ	321	< 200 UJ	< 200
Arsenic-T (µg/l)	2.3	< 2.0	2.7	< 2.0	< 2.0
Barium-T (µg/l)	33	32	27	28	35
Cadmium-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Calcium-T (mg/l)	85	76	70	79	81
Chromium-T (µg/l)	< 30	< 30	< 30	< 30	< 30
Copper-T (µg/l)	< 10	< 10	< 10	< 10	< 10
Iron-T (µg/l)	< 50	54 J	92	81	80
Lead-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Magnesium-T (mg/l)	28	27	23	26	26
Manganese-T (µg/l)	29	55	68	44	26
Mercury-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Nickel-T (µg/l)	< 40	< 40	< 40	< 40	< 40
Potassium-T (mg/l)	14	15	14	14	11
Selenium-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Sodium-T (mg/l)	87	95	75	83	78
Strontium-T (µg/l)	531	494	410	464	452
Zinc-T (µg/l)	31	46	34	74 B	34
Hardness (mg/l CaCO3)	328	301	270	304	309

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

UJ - Analyte not detected above sample quantitation limit (QL).

RC - Result rejected; poor correlation with co-analyte

Appendix Table A-1 White Oak Creek Watershed Inorganic Water Chemistry Sampling Results (2006)

Site Location: # 44 SNAPPING TURTLE RUN DST MOUNT ORAB WWTP

WAU 05090201-10 01

River Mile: 0.42 Storet ID: X02W08

Latitude/Longitude: 38.9922 / -83.9222

Drainage Area (mi2): 1.3

County: Brown

Ecoregion: IP

USGS Quad: Hamersville

Date Collected	7/26/2006	8/2/2006	8/30/2006	9/20/2006	9/27/2006
Time	1020	1035	1050	0955	1123
Temp (C)	23.01	25.3	24.02	19.2	19.13
D.O. (mg/l)	6.66	6	6.76	8.21	8.39
D.O. (% sat)	77.9	73.3	80.5	89.1	90.9
pH (fld) SU	8.02	7.81	7.87	7.9	8.14
Sp Cond (fld)(umhos/cm)	1077	1068	985	1008.5	966.8
Sp Cond (lab)(umhos/cm)	1040	1020	944	976	888
Acidity (mg/l)	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Alkalinity (mg/l)	127	125	119	90.6	113
Ammonia-N (mg/l)	0.130	0.787	0.153	0.142	0.122
BOD5 (mg/l)	8.7 J	10	3.2	4.9	3.5
COD (mg/l)	30	45	18	34	24
Chloride (mg/l)	126	130	112	130	110
Nitrate-nitrite-N (mg/l)	18.9	17.0	22.0	21.8	13.6
Nitrite-N (mg/l)	0.186	1.52	0.176	0.382	0.140
TKN (mg/l)	1.57	3.00	1.80	1.98	1.52
Phosphorus-T (mg/l)	0.714	1.39	1.32	1.69	0.643 J
Sulfate (mg/l)	139	126	124	118	104
TSS (mg/l)	63	61	5	5	13
TDS (mg/l)	694	650	616	648	570
Aluminum-T (µg/l)	713	1260 J	246	415 J	835
Arsenic-T (µg/l)	< 2.0	2.2	< 2.0	< 2.0	2.5
Barium-T (µg/l)	39	43	28	34	53
Cadmium-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Calcium-T (mg/l)	86	78	72	77	83
Chromium-T (µg/l)	< 30	< 30	< 30	< 30	< 30
Copper-T (µg/l)	14	22	< 10	13	20
Iron-T (µg/l)	295	616 J	65	213	628
Lead-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Magnesium-T (mg/l)	29	27	23	25	27
Manganese-T (µg/l)	152	280	54	113	213
Mercury-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Nickel-T (µg/l)	< 40	< 40	< 40	< 40	< 40
Potassium-T (mg/l)	14	15	14	13	11
Selenium-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Sodium-T (mg/l)	88	94	77	78	73
Strontium-T (µg/l)	542	499	420	438	434
Zinc-T (µg/l)	31	55	32	69 B	53
Hardness (mg/l CaCO3)	334	306	274	295	318

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

UJ - Analyte not detected above sample quantitation limit (QL).

RC - Result rejected; poor correlation with co-analyte

Appendix Table A-1 White Oak Creek Watershed Inorganic Water Chemistry Sampling Results (2006)

Site Location: # 45 MIRANDA RUN DST SMOKY ROW RD DST TRIB

WAU 05090201-10 02

River Mile: 0.69 Storet ID: X02K09

Latitude/Longitude: 38.9342 / -83.94009

Drainage Area (mi2): 5.8

County: Brown

Ecoregion: IP

USGS Quad: Hamersville

Date Collected	7/26/2006	8/2/2006	8/30/2006	9/20/2006	9/27/2006
Time	1130	1010	1025	0940	1015
Temp (C)	21.05	24.84	21.99	14.79	14.61
D.O. (mg/l)	7.85	6.43	5.43	8.14	9.04
D.O. (% sat)	88.3	77.7	62.2	80.5	89
pH (fld) SU	8.1	8.03	7.92	8.1	8.07
Sp Cond (fld)(umhos/cm)	608	598	523	576	568
Sp Cond (lab)(umhos/cm)	573	565	498	558	550
Acidity (mg/l)	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Alkalinity (mg/l)	239	225	222	177	179
Ammonia-N (mg/l)	< 0.050	0.063	0.062	< 0.050	< 0.050
BOD5 (mg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
COD (mg/l)	< 10	13	< 10	11	< 10
Chloride (mg/l)	27.0	27.4	18.3	15.2	12.5
Nitrate-nitrite-N (mg/l)	0.24	0.19	< 0.10	0.49	1.35
Nitrite-N (mg/l)	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TKN (mg/l)	0.22	< 0.20	0.39	0.28	< 0.20
Phosphorus-T (mg/l)	0.095	0.113	0.314	0.086	0.082
Sulfate (mg/l)	43.5	45.8	53.3	53.6	40.9
TSS (mg/l)	63	< 5	8	< 5	< 5
TDS (mg/l)	394	348	292	344	334
Aluminum-T (µg/l)	< 200	< 200	323	< 200	< 200
Arsenic-T (µg/l)	< 2.0	< 2.0	2.5	< 2.0	< 2.0
Barium-T (µg/l)	58	61	59	63	66
Cadmium-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Calcium-T (mg/l)	77	72	63	78	82
Chromium-T (µg/l)	< 30	< 30	< 30	< 30	< 30
Copper-T (µg/l)	< 10	< 10	< 10	< 10	< 10
Iron-T (µg/l)	105	74	560	107	173
Lead-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Magnesium-T (mg/l)	27	26	20	22	23
Manganese-T (µg/l)	66	104	125	45	51
Mercury-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Nickel-T (µg/l)	< 40	< 40	< 40	< 40	< 40
Potassium-T (mg/l)	3	4	4	5	5
Selenium-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Sodium-T (mg/l)	13	12	10	9	8
Strontium-T (µg/l)	203	235	222	251	257
Zinc-T (µg/l)	< 10	< 10	< 10	< 10	< 10
Hardness (mg/l CaCO3)	303	287	240	285	299

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

UJ - Analyte not detected above sample quantitation limit (QL).

RC - Result rejected; poor correlation with co-analyte

Appendix Table A-1 White Oak Creek Watershed Inorganic Water Chemistry Sampling Results (2006)

Site Location: # 46 WALNUT CK ADJ SUNSHINE RD DST RUMPKE GEORGETOWN LANDFILL

WAU 05090201-10 02

River Mile: 1.4 Storet ID: X02K07

Latitude/Longitude: 38.9021 / -83.9046

Drainage Area (mi2): 0.4

County: Brown

Ecoregion: IP

USGS Quad: Hamersville

Date Collected	7/26/2006	8/2/2006	8/30/2006	9/20/2006	9/27/2006
Time	1550	1405	1345	1450	1515
Temp (C)		30.26	23.86	16.29	18.93
D.O. (mg/l)		4.17	6.43	12.02	12.13
D.O. (% sat)		55.5	76.3	122.8	130.9
pH (fld) SU		7.73	7.98	7.88	7.85
Sp Cond (fld)(umhos/cm)		598	416.3	731.6	692
Sp Cond (lab)(umhos/cm)	524	564	413	720	665
Acidity (mg/l)	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Alkalinity (mg/l)	214	228	77.0	196	176
Ammonia-N (mg/l)	< 0.050	< 0.050	< 0.050	0.115	0.053
BOD5 (mg/l)	2.9	6.1	3.4	< 2.0	< 2.0
COD (mg/l)	18	29	12	< 10	10
Chloride (mg/l)	36.6	34.7	20.0	52.1	47.9
Nitrate-nitrite-N (mg/l)	< 0.10	< 0.10	< 0.10	0.21	0.98
Nitrite-N (mg/l)	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TKN (mg/l)	< 0.20	3.19	0.39	0.54	< 0.20
Phosphorus-T (mg/l)	< 0.050 UJ	0.456	0.061	0.047	0.074
Sulfate (mg/l)	26.2	14.6	103	61.7	58.2
TSS (mg/l)	< 5	136	44	< 5	< 5
TDS (mg/l)	348	340	294	452	406
Aluminum-T (µg/l)	< 200	272	1290	< 200	< 200
Arsenic-T (µg/l)	2.4	4.3	5.6	< 2.0	< 2.0
Barium-T (µg/l)	39	74	26	77	63
Cadmium-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Calcium-T (mg/l)	68	74	44	96	88
Chromium-T (µg/l)	< 30	< 30	< 30	< 30	< 30
Copper-T (µg/l)	< 10	< 10	< 10	< 10	< 10
Iron-T (µg/l)	122	563	2000	272	201
Lead-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Magnesium-T (mg/l)	18	19	15	23	22
Manganese-T (µg/l)	141	849	59	53	66
Mercury-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Nickel-T (µg/l)	< 40	< 40	< 40	< 40	< 40
Potassium-T (mg/l)	6	7	4	5	6
Selenium-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Sodium-T (mg/l)	21	21	16	29	26
Strontium-T (µg/l)	183	199	266	234	215
Zinc-T (µg/l)	< 10	< 10	11	< 10	< 10
Hardness (mg/l CaCO3)	244	263	172	334	310

B - Result estimated, analyte detected in blank

J - Analyte identified, value estimated

PT - Result estimated, sample was not analyzed within required holding time

UJ - Analyte not detected above sample quantitation limit (QL).

RC - Result rejected; poor correlation with co-analyte

Appendix Table A-1 White Oak Creek Watershed Inorganic Water Chemistry Sampling Results (2006)

Site Location: # 47 WALNUT CK @ SUNSHINE RD (ADDRESS 4241) DST TRIB

WAU 05090201-10 02

River Mile: 0.76 Storet ID: X02K05

Latitude/Longitude: 38.9064 / -83.91477

Drainage Area (mi2): 1.4

County: Brown

Ecoregion: IP

USGS Quad: Hamersville

Date Collected	7/26/2006	8/2/2006	8/30/2006	9/20/2006	9/27/2006
Time	1450	1315	1325	1400	1435
Temp (C)		26.23	21.63	16.15	17.58
D.O. (mg/l)		6.03	7.04	9.69	12.17
D.O. (% sat)		74.7	80	98.6	127.6
pH (fld) SU		7.97	8.03	8.31	8.21
Sp Cond (fld)(umhos/cm)		613	474.3	425.4	407.6
Sp Cond (lab)(umhos/cm)	470	575	471	430	399
Acidity (mg/l)	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Alkalinity (mg/l)	153	114	130	70.2	95.0
Ammonia-N (mg/l)	< 0.050	< 0.050	0.098	< 0.050	< 0.050
BOD5 (mg/l)	< 2.0	< 2.0	2.3	< 2.0	3.2
COD (mg/l)	10	13	< 10	< 10	< 10
Chloride (mg/l)	17.3	15.3	20.3	9.2	10.6
Nitrate-nitrite-N (mg/l)	0.40	0.60	0.98	< 0.10	0.18
Nitrite-N (mg/l)	< 0.020	< 0.020	0.026	< 0.020	< 0.020
TKN (mg/l)	< 0.20	< 0.20	0.55	0.36	0.27
Phosphorus-T (mg/l)	0.056	0.069	0.250	0.063	0.108
Sulfate (mg/l)	75.3	154	110	101	67.8
TSS (mg/l)	< 5	21	25	17	8
TDS (mg/l)	324	382	298	276	240
Aluminum-T (µg/l)	< 200	< 200	1380	364	416
Arsenic-T (µg/l)	< 2.0	< 2.0	2.9	< 2.0	< 2.0
Barium-T (µg/l)	34	49	51	33	36
Cadmium-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Calcium-T (mg/l)	63	71	54	56	59
Chromium-T (µg/l)	< 30	< 30	< 30	< 30	< 30
Copper-T (µg/l)	< 10	< 10	< 10	< 10	< 10
Iron-T (µg/l)	< 50	144	1990	519	592
Lead-T (µg/l)	< 2.0	< 2.0	2.0	< 2.0	< 2.0
Magnesium-T (mg/l)	16	18	13	13	13
Manganese-T (µg/l)	100	23	232	30	34
Mercury-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Nickel-T (µg/l)	< 40	< 40	< 40	< 40	< 40
Potassium-T (mg/l)	6	8	7	4	4
Selenium-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Sodium-T (mg/l)	15	23	17	13	10
Strontium-T (µg/l)	313	494	319	425	246
Zinc-T (µg/l)	< 10	< 10	11	< 10	< 10
Hardness (mg/l CaCO3)	223	251	188	193	201

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

UJ - Analyte not detected above sample quantitation limit (QL).

RC - Result rejected; poor correlation with co-analyte

Appendix Table A-1 White Oak Creek Watershed Inorganic Water Chemistry Sampling Results (2006)

Site Location: # 48 TRIB TO WALNUT CK (1.20) @ SUNSHINE RD

WAU 05090201-10 02

River Mile: 0.33 Storet ID: X02K06

Latitude/Longitude: 38.9022 / -83.908

Drainage Area (mi2): 0.2

County: Brown

Ecoregion: IP

USGS Quad: Hamersville

Date Collected	8/2/2006	8/30/2006	9/20/2006	9/27/2006
Time	1340	1335	1430	1500
Temp (C)	27.82	22.6	19.35	19.3
D.O. (mg/l)	5.55	7.18	8.32	10.35
D.O. (% sat)	70.7	83.2	90.4	112.4
pH (fld) SU	8.01	8.03	8.16	8.06
Sp Cond (fld)(umhos/cm)	588	558.4	426.8	447.5
Sp Cond (lab)(umhos/cm)	586	588	429	436
Acidity (mg/l)	< 5.0	< 5.0	< 5.0	< 5.0
Alkalinity (mg/l)	101	153	62.8	67.5
Ammonia-N (mg/l)	< 0.050	0.070	< 0.050	0.081
BOD5 (mg/l)	< 2.0	3.0	2.2	< 2.0
COD (mg/l)	10	< 10	14	< 10
Chloride (mg/l)	13.8	13.0	8.8	7.5
Nitrate-nitrite-N (mg/l)	0.11	0.28	< 0.10	1.58
Nitrite-N (mg/l)	< 0.020	< 0.020	< 0.020	< 0.020
TKN (mg/l)	< 0.20	0.40	0.28	< 0.20
Phosphorus-T (mg/l)	0.064	0.132	0.055	0.085
Sulfate (mg/l)	174	162	110	114
TSS (mg/l)	8	30	18	10
TDS (mg/l)	400	356	282	278
Aluminum-T (µg/l)	< 200	1750	784	721
Arsenic-T (µg/l)	2.1	2.5	< 2.0	< 2.0
Barium-T (µg/l)	40	46	28	31
Cadmium-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20
Calcium-T (mg/l)	69	63	53	58
Chromium-T (µg/l)	< 30	< 30	< 30	< 30
Copper-T (µg/l)	< 10	< 10	< 10	< 10
Iron-T (µg/l)	233	2330	1030	908
Lead-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0
Magnesium-T (mg/l)	20	18	14	14
Manganese-T (µg/l)	44	138	72	46
Mercury-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20
Nickel-T (µg/l)	< 40	< 40	< 40	< 40
Potassium-T (mg/l)	4	4	4	4
Selenium-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0
Sodium-T (mg/l)	27	19	14	13
Strontium-T (µg/l)	850	633	514	498
Zinc-T (µg/l)	< 10	35	11	< 10
Hardness (mg/l CaCO3)	255	231	190	202

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

UJ - Analyte not detected above sample quantitation limit (QL).

RC - Result rejected; poor correlation with co-analyte

Appendix Table A-1 White Oak Creek Watershed Inorganic Water Chemistry Sampling Results (2006)

Site Location: # 49 TOWN RUN JUST UPST GEORGETOWN WWTP

WAU 05090201-10 03

River Mile: 0.81 Storet ID: X02S05

Latitude/Longitude: 39.8522 / -83.91

Drainage Area (mi2): 1.3

County: Brown

Ecoregion: IP

USGS Quad: Higgensport

Date Collected	7/26/2006	8/2/2006	8/30/2006	9/20/2006	9/27/2006
Time	1245	1130	1200	1215	1205
Temp (C)		23.88	21.73	14.34	15
D.O. (mg/l)		6.81	7.34	10.12	13.32
D.O. (% sat)		80.9	83.6	99	132.3
pH (fld) SU		8.02	8.2	8.31	8.28
Sp Cond (fld)(umhos/cm)		585.6	500.3	563.4	622.1
Sp Cond (lab)(umhos/cm)	554	563	479	565	606
Acidity (mg/l)	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Alkalinity (mg/l)	200	205	211	172	187
Ammonia-N (mg/l)	< 0.050	0.072	< 0.050	< 0.050	0.088
BOD5 (mg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
COD (mg/l)	< 10	10	< 10	< 10	< 10
Chloride (mg/l)	36.9	34.8	29.4	29.3	29.4
Nitrate-nitrite-N (mg/l)	0.25	0.32	0.17	0.11	0.68
Nitrite-N (mg/l)	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TKN (mg/l)	< 0.20	< 0.20	0.24	0.55	0.34
Phosphorus-T (mg/l)	0.078 J	0.102	0.090	0.109	0.106
Sulfate (mg/l)	45.5	41.5	34.9	42.4	45.5
TSS (mg/l)	< 5	15	< 5	< 5	< 5
TDS (mg/l)	384	330	284	338	366
Aluminum-T (µg/l)	< 200	< 200	< 200	< 200	< 200
Arsenic-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Barium-T (µg/l)	49	49	41	47	57
Cadmium-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Calcium-T (mg/l)	78	76	63	81	94
Chromium-T (µg/l)	< 30	< 30	< 30	< 30	< 30
Copper-T (µg/l)	< 10	< 10	< 10	< 10	< 10
Iron-T (µg/l)	61	185	106	61	134
Lead-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Magnesium-T (mg/l)	16	16	13	16	19
Manganese-T (µg/l)	18	52	23	< 10	< 10
Mercury-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Nickel-T (µg/l)	< 40	< 40	< 40	< 40	< 40
Potassium-T (mg/l)	4	3	3	3	3
Selenium-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Sodium-T (mg/l)	20	21	18	18	19
Strontium-T (µg/l)	235	239	184	221	256
Zinc-T (µg/l)	< 10	< 10	< 10	< 10	< 10
Hardness (mg/l CaCO3)	261	256	211	268	313

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

UJ - Analyte not detected above sample quantitation limit (QL).

RC - Result rejected; poor correlation with co-analyte

Appendix Table A-1 White Oak Creek Watershed Inorganic Water Chemistry Sampling Results (2006)

Site Location: # 50 GEORGETOWN WWTP 001 OUTFALL TO TOWN RUN

WAU 05090201-10 03

River Mile: 0.8 Storet ID: X02S03

Latitude/Longitude: 38.852 / -83.9103

Drainage Area (mi²):

County: Brown

Ecoregion: IP

USGS Quad: Higgensport

Date Collected	7/26/2006	8/2/2006	8/30/2006	9/20/2006	9/27/2006
Time	1230	1140	1140	1130	1125
Temp (C)		23.45	23.36	21.53	20.72
D.O. (mg/l)		5.39	6.57	4.3	7.84
D.O. (% sat)		63.5	77.2	48.9	87.6
pH (fld) SU		7.18	7.42	7.28	7.32
Sp Cond (fld)(umhos/cm)		929.2	757.8	1099.9	693.3
Sp Cond (lab)(umhos/cm)	780	944	737	1080	664
Acidity (mg/l)	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Alkalinity (mg/l)	145	126	169	193	135
Ammonia-N (mg/l)	6.36	2.44	0.679	19.3	4.07
BOD5 (mg/l)	11	6.8	5.5	26	27 RC
COD (mg/l)	30	40	< 10	60	18 RC
Chloride (mg/l)	83.8	93.3	78.3	116	55.2
Nitrate-nitrite-N (mg/l)	8.00	11.5	6.47	4.74	4.81
Nitrite-N (mg/l)	2.07 PT	1.77	0.434	0.572	1.05
TKN (mg/l)	9.64	4.79	2.52	19.1	6.58
Phosphorus-T (mg/l)	3.28	4.28	6.77	3.20	3.08
Sulfate (mg/l)	99.6	145	85.2	107	68.4
TSS (mg/l)	< 5	< 5	< 5	< 5	< 5
TDS (mg/l)	496	610	456	594	354
Aluminum-T (µg/l)	< 200	< 200	< 200	< 200	< 200
Arsenic-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Barium-T (µg/l)	20	22	16	36	28
Cadmium-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Calcium-T (mg/l)	51	50	50	56	61
Chromium-T (µg/l)	< 30	< 30	< 30	< 30	< 30
Copper-T (µg/l)	< 10	< 10	< 10	< 10	< 10
Iron-T (µg/l)	86	59	67	121	135
Lead-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Magnesium-T (mg/l)	19	20	16	23	16
Manganese-T (µg/l)	30	22	14	139	95
Mercury-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Nickel-T (µg/l)	< 40	< 40	< 40	< 40	< 40
Potassium-T (mg/l)	13	17	10	24	9
Selenium-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Sodium-T (mg/l)	72	110	65	97	50
Strontium-T (µg/l)	185	192	165	204	194
Zinc-T (µg/l)	52	71	62	53	19 B
Hardness (mg/l CaCO ₃)	206	207	191	234	218

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

UJ - Analyte not detected above sample quantitation limit (QL).

RC - Result rejected; poor correlation with co-analyte

Appendix Table A-1 White Oak Creek Watershed Inorganic Water Chemistry Sampling Results (2006)

Site Location: # 51 TOWN RUN DST GEORGETOWN WWTP

WAU 05090201-10 03

River Mile: 0.63 Storet ID: X02W04

Latitude/Longitude: 38.8514 / -83.9125

Drainage Area (mi²): 1.4

County: Brown

Ecoregion: IP

USGS Quad: Higgensport

Date Collected	7/26/2006	8/2/2006	8/30/2006	9/20/2006	9/27/2006
Time	1210	1115	1120	1200	1145
Temp (C)		23.86	23.13	19.87	19.51
D.O. (mg/l)			7.09	7.34	10.84
D.O. (% sat)			83	80.8	118.3
pH (fld) SU		7.68	7.87	7.85	7.89
Sp Cond (fld)(umhos/cm)		989.5	736.2	1020.6	675.3
Sp Cond (lab)(umhos/cm)	766	946	704	1000	656
Acidity (mg/l)	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Alkalinity (mg/l)	154	126	171	194	140
Ammonia-N (mg/l)	6.58	2.58	0.450	15.0	3.24
BOD5 (mg/l)	7.6	8.8	3.2	26	19 RC
COD (mg/l)	27	37	< 10	49	13 RC
Chloride (mg/l)	80.9	92.2	73.4	104	50.7
Nitrate-nitrite-N (mg/l)	7.00	10.9	6.39	4.73	4.07
Nitrite-N (mg/l)	1.64	1.98	0.377	0.596	0.856
TKN (mg/l)	9.31	4.70	1.78	15.5	4.34
Phosphorus-T (mg/l)	3.04	4.20	5.84	2.72	2.52
Sulfate (mg/l)	97.9	140	92.0	79.9	64.8
TSS (mg/l)	< 5	< 5	< 5	< 5	< 5
TDS (mg/l)	486	584	440	564	392
Aluminum-T (µg/l)	< 200	< 200	< 200	< 200	< 200
Arsenic-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Barium-T (µg/l)	22	24	18	38	33
Cadmium-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Calcium-T (mg/l)	52	51	52	62	68
Chromium-T (µg/l)	< 30	< 30	< 30	< 30	< 30
Copper-T (µg/l)	< 10	< 10	< 10	< 10	< 10
Iron-T (µg/l)	86	95	85	99	99
Lead-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Magnesium-T (mg/l)	18	20	16	22	17
Manganese-T (µg/l)	42	41	17	115	77
Mercury-T (µg/l)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Nickel-T (µg/l)	< 40	< 40	< 40	< 40	< 40
Potassium-T (mg/l)	13	16	9	22	8
Selenium-T (µg/l)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Sodium-T (mg/l)	68	105	61	89	44
Strontium-T (µg/l)	185	190	168	212	205
Zinc-T (µg/l)	46	71	46	38	16 B
Hardness (mg/l CaCO ₃)	204	210	196	245	240

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

UJ - Analyte not detected above sample quantitation limit (QL).

RC - Result rejected; poor correlation with co-analyte

Appendix A-2

Summary table of the bacteriological water sampling results
in the White Oak Creek study area, 2006.

Appendix Table A-2 White Oak Creek Watershed Bacteriological Water Sampling Results (2006)

Station ID	Location	River Mile	WAU 05090201-	Date	Fecal Coliform (#/100 ml)	E. coli
X02K11	# 2 WHITE OAK CK @ BETHEL NEW HOPE RD	20.65	10- 02	8/14/2006	60 JL	10 JL
				8/15/2006	240	130 JL
				8/16/2006	20 JL	30 JL
				8/17/2006	60 JL	60 JL
				8/18/2006	90 JL	60 JL
X02K04	# 4 WHITE OAK CK @ END OF MILLER RING RD	12.4	10- 02	8/14/2006	60 JL	60 JL
				8/15/2006	70 JL	20 JL
				8/16/2006	30 JL	40 JL
				8/17/2006	40 JL	40 JL
				8/18/2006	30 JL	30 JL
609110	# 5 WHITE OAK CK ADJ SR 221 DST GEORGETOWN WTP DAM	7.54	10- 02	8/14/2006	< 10	20 JL
				8/15/2006	30 JL	30 JL
				8/16/2006	30 JL	20 JL
				8/17/2006	20 JL	30 JL
				8/18/2006	50 JL	20 JL
X02K26	# 9 N FK WHITE OAK CK DST SR 131 AND DST BARR RUN	15.36	09- 03	8/14/2006	590	360
				8/15/2006	27000	10000 JL
				8/16/2006	1400 JL	1000 JL
				8/17/2006	2000	970 JL
				8/18/2006	290	210
X02S01	#10 N FK WHITE OAK CK @ SICILY RD NR BUFORD	6.98	09- 04	8/14/2006	200	100 JL
				8/15/2006	310	160 JL
				8/16/2006	550	490
				8/17/2006	200	130 JL
				8/18/2006	210	130 JL

JL - Estimated; computed using a colony count that is not within the acceptable counting range.

J - Estimated

Appendix Table A-2 White Oak Creek Watershed Bacteriological Water Sampling Results (2006)

Station ID	Location	River Mile	WAU 05090201-	Date	Fecal Coliform (#/100 ml)	E. coli
300057	#11 N FK WHITE OAK CK @ CR 24B (TRI-COUNTY HWY)	1.48	09- 04	8/14/2006	140 JL	120 JL
				8/15/2006	580	180 JL
				8/16/2006	290	140 JL
				8/17/2006	490	400
				8/18/2006	250	30 JL
X02K23	#14 LITTLE N FK WHITE OAK CK @ ROSSELOTT RD	0.28	09- 03	8/14/2006	100 JL	130 JL
				8/15/2006	400	160 JL
				8/16/2006	740 JL	550
				8/17/2006	360	310
X02K20	#17 FLAT RUN @ TRI-COUNTY HWY	0.15	09- 04	8/14/2006	300	210
				8/15/2006	550	360
				8/16/2006	150 JL	190 JL
				8/17/2006	160 JL	120 JL
X02K41	#19 E FK WHITE OAK CK ADJ ROBINSON RD, DST SORG RD AND TRIB	16.5	09- 01	8/14/2006	22000	12000 JL
				8/15/2006	20000	14000 JL
				8/16/2006	5400	4700
				8/17/2006	9600 JL	6800
X02K35	#20 E FK WHITE OAK CK @ MOWRYSTOWN DIEHL PARK UPST DAM	10.48	09- 02	8/14/2006	120 JL	100 JL
				8/15/2006	360	220
				8/16/2006	350	300
				8/17/2006	140 JL	160 JL
				8/18/2006	370	100 JL

JL - Estimated; computed using a colony count that is not within the acceptable counting range.

J - Estimated

Appendix Table A-2 White Oak Creek Watershed Bacteriological Water Sampling Results (2006)

Station ID	Location	River Mile	WAU 05090201-	Date	Fecal Coliform (#/100 ml)	E. coli
X02W11	#22 E FK WHITE OAK CK ADJ SR 74 DST SARDINIA	3.3	09- 02	8/14/2006	260	60 JL
				8/15/2006	1100 JL	900 JL
				8/16/2006	510	400
				8/17/2006	320	280
				8/18/2006	380	220
X02K40	#23 TRIB TO E FK WHITE OAK CK (15.52) @ NEW MARKET RD	2.1	09- 01	8/14/2006	5100	2500
				8/15/2006	70000 JL	54000
				8/16/2006	3000	2500
				8/17/2006	18000 JL	7600
X02K32	#29 BELLS RUN @ TR 142A (WINKLE RD)	1.97	09- 02	8/14/2006	560	150 J,JL
				8/15/2006	3700	3000
				8/16/2006	1900 JL	1300 JL
				8/17/2006	500	180 JL
X02K30	#32 SARDINA WWTP EFFLUENT TO SLABCAMP RUN	0.98	09- 02	8/14/2006	1600 JL	300
				8/15/2006	1300 JL	500
				8/16/2006	1100 JL	730
				8/17/2006	2400	720
X02W05	#36 STERLING RUN @ US RT 68 UPST MOUNT ORAB	6.74	10- 01	8/15/2006	32000	20000
				8/16/2006	1300 JL	740
				8/17/2006	600	240
				8/18/2006	390	230
X02K14	#37 STERLING RUN @ MT ORAB WATER INTAKE	6.47	10- 01	8/14/2006	40 JL	50 JL
				8/15/2006	590	200
				8/16/2006	380	320
				8/18/2006	20 JL	30 JL

JL - Estimated; computed using a colony count that is not within the acceptable counting range.

J - Estimated

Appendix Table A-2 White Oak Creek Watershed Bacteriological Water Sampling Results (2006)

Station ID	Location	River Mile	WAU 05090201-	Date	Fecal Coliform (#/100 ml)	E. coli
X02W06	#39 STERLING RUN @ STERLING RD SOUTHERN FORD, S OF MOUNT ORAB	0.59	10- 01	8/15/2006	740 JL	370
				8/16/2006	220	170 JL
				8/17/2006	230	140 JL
				8/18/2006	150 JL	< 10
X02K12	#43 MOUNT ORAB WWTP EFFLUENT TO SNAPPING TURTLE RUN	0.46	10- 01	8/14/2006	450	130 JL
				8/15/2006	3800	1500 JL
				8/16/2006	230	140 JL
				8/17/2006	130 JL	80 JL
X02S03	#50 GEORGETOWN WWTP 001 OUTFALL TO TOWN RUN	0.8	10- 03	8/14/2006	2500	660
				8/15/2006	2200	800
				8/16/2006	4100	1800 JL
				8/17/2006	2800	1100 JL
				8/18/2006	5400	2400

JL - Estimated; computed using a colony count that is not within the acceptable counting range.

J - Estimated

Appendix A-3

Summary table of the organic compounds sampling results
in the White Oak Creek study area, 2006.

Appendix Table A-3. Concentrations ($\mu\text{g/l}$) of organic compounds detected in water samples (stream, effluent, and Grant Lake) collected in the Whiteoak Creek study area during 2006 (11-Digit WAUs 05090201-090 and 05090201-100).* #

Stream River Mile (Location)		-----Date Sample Collected-----				
		4/10/06	5/18/06	8/31/06	9/21/06	12/14/06
WAU 05090201-090 (Whiteoak Creek watershed-Headwaters to below East Fork Whiteoak Creek)						
North Fork Whiteoak Creek						
RM 18.10 (Dawson Rd)	14-Digit WAU 020	No Sample	No sample		No sample	No sample
Parameter						
bis(2-Ethylhexyl)phthalate				0.53 ^J		
Atrazine				0.24 ^J		
Metolachlor				0.58 ^J		
TICs [†] (number detected)				2		
RM 6.98 (Sicily Rd)	14-Digit WAU 030	No sample	No sample			No sample
Parameter						
Simazine				0.25 ^J	--	
Atrazine				0.77 ^J	0.28 ^J	
Metolachlor				0.22 ^J	0.32 ^J	
bis(2-Ethylhexyl)phthalate				--	0.64 ^{JB}	
TICs [†] (number detected)				2	2	
RM 1.48 (Tri-County Highway)**	14-Digit WAU 030					
Parameter						
2,4-D		na	na	na	na	1.03 ^J
δ -Hexachlorocyclohexane		--	0.0026	--	--	--
Atrazine		0.49	0.97	0.55 ^J	0.24 ^J	0.39 ^J
bis(2-Ethylhexyl)phthalate		0.58	0.57	--	0.73 ^{JB}	0.65 ^{JB}
Metolachlor		0.27	--	--	0.32 ^J	--
Simazine		0.68	--	--	--	0.83 ^J
TICs [†] (number detected)		8	2	--	2	--
Little North Fork Whiteoak Creek						
RM 2.94 (SR 131)	14-Digit WAU 020	No sample	No sample		No sample	No sample
Parameter						
Acetochlor				0.30 ^J		
Atrazine				0.40 ^J		
Metolachlor				0.25 ^J		
Simazine				0.74 ^J		
TICs [†] (number detected)				3		

Appendix Table A-3. Continued.

Stream River Mile (Location)		-----Date Sample Collected-----				
		4/10/06	5/18/06	8/31/06	9/21/06	12/14/06
Flat Run						
RM 3.39 (SR 134)	<u>14-Digit WAU</u> 030	No sample	No sample		No sample	No sample
Parameter						
Bromodichloromethane				2.98		
Chloroform				7.15		
Dibromochloromethane				1.81		
TICs [†] (number detected)				--		
East Fork Whiteoak Creek						
RM 5.81 (Sardinia-Mowrystown Rd)	<u>14-Digit WAU</u> 010	No sample	No sample			No sample
Parameter						
Atrazine				0.66 ^J	0.25	
Metolachlor				0.35 ^J	0.27	
bis(2-Ethylhexyl)phthalate				--	0.70 ^B	
TICs [†] (number detected)				3	1	
RM 3.30 (Adjacent SR 74-Tri-County Highway)	<u>14-Digit WAU</u> 010	No sample	No sample		No sample	No sample
Parameter						
bis(2-Ethylhexyl)phthalate				0.54		
Atrazine				0.64 ^J		
Metolachlor				0.34		
Simazine				0.33		
TICs [†] (number detected)				3		
Slabcamp Run						
Sardinia WWTP Final Effluent	<u>14-Digit WAU</u> 010	No sample	No sample		No sample	No sample
Parameter						
Aldrin				0.0081		
δ-Hexachlorocyclohexane				0.0042		
Dieldrin				0.016		
bis(2-Ethylhexyl)phthalate				0.51 ^J		
Metolachlor				0.24 ^J		
TICs [†] (number detected)				6		

Appendix Table A-3. Continued.

Stream River Mile (Location)		-----Date Sample Collected-----				
		4/10/06	5/18/06	8/30/06	9/20/06	12/14/06
WAU 05090201-100 (Whiteoak Creek watershed-Below East Fork Whiteoak Creek to Ohio River)						
Whiteoak Creek (mainstem)						
RM 20.65 (Bethel New Hope Rd)	14-Digit WAU 020	No sample	No sample			No sample
Parameter						
bis(2-Ethylhexyl)phthalate				0.59	0.63 ^B	
Atrazine				--	0.25	
Metolachlor				--	0.26	
TICs [†] (number detected)				8	2	
RM 12.40 (End of Miller Ring Rd)	14-Digit WAU 020	No sample	No sample			No sample
Parameter						
bis(2-Ethylhexyl)phthalate				1.00 ^J	0.54 ^{JB}	
Atrazine				0.40	0.28 ^J	
Metolachlor				--	0.31 ^J	
TICs [†] (number detected)				4	1	
RM 7.54 (Adj SR 221-Dst Georget'n waterworks dam)**	14-Digit WAU 030				No sample	
Parameter						
2,4-D		na	na	na		0.63 ^J
Metolachlor		0.26	--	0.22 ^J		--
Atrazine		0.55	0.26	0.43 ^J		0.27
bis(2-Ethylhexyl)phthalate		0.53	--	--		0.90 ^B
Simazine		0.44	--	--		0.51
TICs [†] (number detected)		9	7	2		--
RM 2.45 (Adjacent SR 221)	14-Digit WAU 030	No sample	No sample	No sample		No sample
Parameter						
Metolachlor					0.24 ^J	
Atrazine					0.26 ^J	
bis(2-Ethylhexyl)phthalate					0.52 ^{JB}	
TICs [†] (number detected)					2	

Appendix Table A-3. Continued.

Stream River Mile (Location)		-----Date Sample Collected-----				
		4/10/06	5/18/06	8/30/06	9/20/06	12/14/06
Sterling Run						
RM 9.65 (Greenbush East Rd)	14-Digit WAU 010	No sample	No sample		No sample	No sample
<u>Parameter</u>						
Endosulfan I				0.0025		
Heptachlor Epoxide				0.0029		
Hexachlorobenzene				0.031		
bis(2-Ethylhexyl)phthalate				1.34 ^J		
Atrazine				1.36 ^J		
Metolachlor				0.47 ^J		
Simazine				0.40 ^J		
TICs [†] (number detected)				6		
RM 6.74 (Upstream US 68)	14-Digit WAU 010	No sample	No sample			No sample
<u>Parameter</u>						
Dieldrin				0.0033	--	
Atrazine				0.47 ^J	0.29 ^J	
Heptachlor Epoxide				--	0.0029	
bis(2-Ethylhexyl)phthalate				1.59 ^J	0.84 ^{JB}	
3-Hydroxycarbofuran				0.53	--	
TICs [†] (number detected)				8	6	
RM 6.47 (Mt Orab WTP Intake)***	14-Digit WAU 010	4/10/06 and 5/18/06	6/29/06	8/30/06	9/20/06	12/14/06
<u>Parameter</u>		No samples				
2,4-D			na	na	na	0.78 ^J
Dieldrin			na	0.0063	--	na
Atrazine			2.37	0.38 ^J	0.33 ^J	--
bis(2-Ethylhexyl)phthalate			--	0.62 ^J	0.89 ^{JB}	0.63 ^{JB}
Metolachlor			1.95	--	--	0.21 ^J
Simazine			0.98	--	--	--
TICs [†] (number detected)			6	7	2	--

Appendix Table A-3. Continued.

Stream River Mile (Location)		-----Date Sample Collected-----				
		4/10/06	5/18/06	8/30/06	9/20/06	12/14/06
RM 0.59 (Sterling Road South Ford)**						
Parameter	14-Digit WAU 010					
2,4-D		na	na	na	na	2.67 ^J
Atrazine		0.90 ^J	0.35	0.49	--	--
bis(2-Ethylhexyl)phthalate		0.56 ^J	0.52	0.60 ^J	0.89 ^{JB}	0.75 ^{JB}
Metolachor		--	--	0.22	--	--
Simazine		0.27 ^J	--	--	--	--
Heptachlor Epoxide		--	0.0033	--	--	--
TICs [†] (number detected)		8	6	6	7	--
Tributary to Sterling Run (RM 6.68)						
RM 0.68 (Bardwell West Rd)	14-Digit WAU 010	No sample	No sample			No sample
Parameter						
Atrazine				0.63 ^J	0.26 ^J	
bis(2-Ethylhexyl)phthalate				--	0.92 ^{JB}	
TICs [†] (number detected)				6	2	
Snapping Turtle Run						
Mt Orab WWTP Final Effluent	14-Digit WAU 010	No sample	No sample		No sample	No sample
Parameter						
γ-Hexachlorocyclohexane (Lindane)				0.0024		
Dieldrin				0.011		
Heptachlor Epoxide				0.0030		
bis(2-Ethylhexyl)phthalate				1.54 ^J		
3-Hydroxycarbofuran				1.05		
TICs [†] (number detected)				11		
Town Run						
Georgetown WWTP Final Effluent		No sample	No sample		No sample	No sample
Parameter	14-Digit WAU 030					
Dieldrin				0.010		
bis(2-Ethylhexyl)phthalate				2.16 ^J		
3-Hydroxycarbofuran				1.52		
TICs [†] (number detected)				3		

Appendix Table A-3. Continued.

Stream River Mile (Location)	-----Date Sample Collected-----					
	4/10/06 and 5/18/06	6/29/06	8/30/06	9/20/06	12/14/06	
Grant Lake						
L-1 (Near Dam) Lat/long: 38.99928/83.92941 Bottom sample-Depth 1.9 meters <u>Parameter</u> α-Hexachlorocyclohexane δ-Hexachlorocyclohexane γ-Hexachlorocyclohexane (Lindane) Methoxychlor Acetochlor Atrazine Metolachlor Simazine TICs [†] (number detected)	<u>14-Digit WAU</u> 010	No sample		No sample	No sample	No sample
L-2 (Mid lake, Dst Plum Cr) Lat/long: 39.00906/83.93425 Bottom sample-Depth 1.5 meters <u>Parameter</u> Di-n-butylphthalate δ-Hexachlorocyclohexane γ-Hexachlorocyclohexane (Lindane) Heptachlor Epoxide Methoxychlor Atrazine bis(2-Ethylhexyl)phthalate Metolachlor Simazine TICs [†] (number detected)	<u>14-Digit WAU</u> 010	No sample		No sample	No sample	No sample
			0.0076 0.017 ^B 0.0092 0.010 0.26 13.2 2.48 3.07 11			
			8.1 0.014 ^B 0.0085 0.0072 0.010 10.4 ^J 0.74 ^J 2.41 ^J 2.97 ^J 10			

Appendix Table A-3. Continued.

*	Unless otherwise stated, samples were analyzed for volatile organics compounds (VOCs) (USEPA Method 624), semivolatile organic compounds (USEPA Method 625), carbamates (USEPA Method 531.1), glyphosate (USEPA Method 547), polychlorinated biphenyls (PCBs) (USEPA Method 608), and pesticides/herbicides (USEPA Methods 608 and 525.2). Only compounds that were detected at least once are listed. Glyphosate and PCBs were not detected at any site.
**	Samples at these sites were only analyzed for glyphosates (USEPA Method 547), pesticides (USEPA Method 525.2), and herbicides (USEPA Method 515.1) on December 14.
***	Sterling Run at the Mt Orab WTP intake (RM 6.47) was only analyzed for pesticides (USEPA Method 525.2) on June 29. Samples at the site were analyzed for glyphosates (USEPA Method 547), pesticides (USEPA Method 525.2), and herbicides (USEPA Method 515.1) on December 14.
--	Compound not detected or below the method detection limit.
†	TICs (Tentatively Identified Compounds)--Analysis indicates the presence of an analyte (non-priority pollutant) that has been "tentatively identified".
na	Not applicable—compound not analyzed.
#	<u>14-Digit WAUs</u> 05090201-090-010 (East Fork Whiteoak Creek) 05090201-090-020 (North Fork Whiteoak Creek to below Little North Fork) 05090201-090-030 (North Fork Whiteoak Creek below Little North Fork to above East Fork) 05090201-100-010 (Sterling Run) 05090201-100-020 (Whiteoak Creek below East Fork to Georgetown (except Sterling Run)) 05090201-100-030 (Whiteoak Creek below Georgetown to Ohio River)
<u>Qualifiers:</u>	
J	Results are estimated due to failure of associated quality control solutions.
B	Analyte was also detected in laboratory blanks.

Appendix A-4

Total catch summaries (species list) for fish sampling locations
in the White Oak Creek study area, 2006.

Species List

River Code: 10-400	Stream: White Oak Creek	Sample Date: 2006
River Mile: 27.50	Location: White Station Rd.	Date Range: 08/15/2006
Time Fished: 3576 sec	Drainage: 150.0 sq mi	Thru: 09/07/2006
Dist Fished: 0.40 km	Basin: Southwest Ohio River Tribs 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
River Carpsucker	C	O	M	1	0.75	0.13	0.06	0.52	86.00
Black Redhorse	R	I	S I	5	3.75	0.63	0.77	6.24	206.00
Golden Redhorse	R	I	S M	81	60.75	10.13	3.08	24.85	50.65
Northern Hog Sucker	R	I	S M	77	57.75	9.63	2.08	16.79	35.99
White Sucker	W	O	S T	1	0.75	0.13	0.07	0.55	90.00
Common Carp	G	O	M T	1	0.75	0.13	0.13	1.03	170.00
Silver Shiner	N	I	S I	9	6.75	1.13	0.03	0.21	3.89
Scarlet Shiner	N	I	S M	5	3.75	0.63	0.01	0.06	2.00
Striped Shiner	N	I	S	43	32.25	5.38	0.29	2.36	9.05
Bigeye Shiner [T]	N	I	S R	6	4.50	0.75	0.01	0.10	2.67
Spotfin Shiner	N	I	M	4	3.00	0.50	0.01	0.06	2.50
Sand Shiner	N	I	M M	28	21.00	3.50	0.03	0.25	1.45
Mimic Shiner	N	I	M I	2	1.50	0.25	0.00	0.02	1.50
Bluntnose Minnow	N	O	C T	28	21.00	3.50	0.04	0.32	1.87
Central Stoneroller	N	H	N	62	46.50	7.75	0.71	5.71	15.22
Channel Catfish	F		C	2	1.50	0.25	0.31	2.52	207.50
Yellow Bullhead		I	C T	2	1.50	0.25	0.07	0.59	49.00
Stonecat Madtom		I	C I	1	0.75	0.13	0.01	0.11	18.00
Brook Silverside		I	M M	2	1.50	0.25	0.00	0.02	2.00
Rock Bass	S	C	C	40	30.00	5.00	0.74	6.01	24.78
Smallmouth Bass	F	C	C M	5	3.75	0.63	0.57	4.60	152.00
Spotted Bass	F	C	C	21	15.75	2.63	0.90	7.24	56.89
Green Sunfish	S	I	C T	17	12.75	2.13	0.17	1.35	13.12
Bluegill Sunfish	S	I	C P	2	1.50	0.25	0.03	0.24	20.00
Longear Sunfish	S	I	C M	257	192.75	32.13	1.91	15.43	9.91
Hybrid X Sunfish				1	0.75	0.13	0.04	0.31	51.00
Blackside Darter	D	I	S	2	1.50	0.25	0.01	0.08	6.50
Logperch	D	I	S M	21	15.75	2.63	0.15	1.17	9.20
Johnny Darter	D	I	C	5	3.75	0.63	0.01	0.04	1.40
Greenside Darter	D	I	S M	48	36.00	6.00	0.11	0.92	3.15
Rainbow Darter	D	I	S M	16	12.00	2.00	0.01	0.11	1.10
Fantail Darter	D	I	C	5	3.75	0.63	0.03	0.21	6.80
<i>Mile Total</i>				800	600.00		12.38		
<i>Number of Species</i>				31					
<i>Number of Hybrids</i>				1					

Species List

River Code: 10-400	Stream: White Oak Creek	Sample Date: 2006
River Mile: 20.70	Location:	Date Range: 08/16/2006
Time Fished: 3592 sec	Drainage: 188.0 sq mi	Thru: 09/08/2006
Dist Fished: 0.40 km	Basin: Southwest Ohio River Tribs No of Passes: 2	Sampler Type: D E

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Golden Redhorse	R	I	S M	11	8.25	0.46	0.32	1.92	39.09
Northern Hog Sucker	R	I	S M	86	64.50	3.63	2.72	16.21	42.15
Creek Chub	N	G	N T	21	15.75	0.89	0.05	0.27	2.86
Silver Shiner	N	I	S I	30	22.50	1.27	0.09	0.54	4.00
Scarlet Shiner	N	I	S M	3	2.25	0.13	0.01	0.04	3.33
Bigeye Shiner [T]	N	I	S R	17	12.75	0.72	0.06	0.38	5.00
Spotfin Shiner	N	I	M	36	27.00	1.52	0.13	0.75	4.68
Sand Shiner	N	I	M M	91	68.25	3.84	0.14	0.82	2.02
Silverjaw Minnow	N	I	M	34	25.50	1.44	0.11	0.65	4.25
Bluntnose Minnow	N	O	C T	240	180.00	10.14	0.30	1.80	1.68
Central Stoneroller	N	H	N	666	499.50	28.14	4.30	25.64	8.61
Channel Catfish	F		C	1	0.75	0.04	0.01	0.04	8.00
Yellow Bullhead		I	C T	2	1.50	0.08	0.03	0.18	20.00
Flathead Catfish	F	P	C	2	1.50	0.08	0.46	2.73	305.00
Brindled Madtom		I	C I	1	0.75	0.04	0.00	0.02	5.00
Rock Bass	S	C	C	40	30.00	1.69	0.75	4.46	24.92
Smallmouth Bass	F	C	C M	16	12.00	0.68	0.66	3.96	55.31
Spotted Bass	F	C	C	6	4.50	0.25	0.09	0.52	19.17
Green Sunfish	S	I	C T	59	44.25	2.49	0.82	4.86	18.42
Longear Sunfish	S	I	C M	385	288.75	16.27	4.31	25.70	14.94
Green Sf X Bluegill Sf				2	1.50	0.08	0.02	0.13	15.00
Logperch	D	I	S M	1	0.75	0.04	0.02	0.11	25.00
Johnny Darter	D	I	C	16	12.00	0.68	0.01	0.08	1.14
Greenside Darter	D	I	S M	523	392.25	22.10	1.24	7.38	3.16
Rainbow Darter	D	I	S M	36	27.00	1.52	0.08	0.46	2.84
Fantail Darter	D	I	C	42	31.50	1.77	0.06	0.37	1.98
<i>Mile Total</i>				2,367	1,775.25		16.78		
<i>Number of Species</i>				25					
<i>Number of Hybrids</i>				1					

Species List

River Code: 10-400	Stream: White Oak Creek	Sample Date: 2006
River Mile: 16.50	Location:	Date Range: 08/15/2006
Time Fished: 3127 sec	Drainage: 190.0 sq mi	Thru: 09/08/2006
Dist Fished: 0.40 km	Basin: Southwest Ohio River Tribs 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	0.17	0.08	0.26	110.00
Quillback	C	O	M	1	0.75	0.17	0.09	0.28	120.00
Black Redhorse	R	I	S I	33	24.75	5.50	8.97	28.36	362.48
Golden Redhorse	R	I	S M	36	27.00	6.00	6.10	19.28	225.85
Northern Hog Sucker	R	I	S M	62	46.50	10.33	2.12	6.71	45.65
Silver Shiner	N	I	S I	10	7.50	1.67	0.03	0.10	4.00
Scarlet Shiner	N	I	S M	1	0.75	0.17	0.00	0.01	5.00
Striped Shiner	N	I	S	1	0.75	0.17	0.05	0.14	60.00
Spotfin Shiner	N	I	M	35	26.25	5.83	0.11	0.36	4.29
Sand Shiner	N	I	M M	3	2.25	0.50	0.00	0.01	1.00
Mimic Shiner	N	I	M I	2	1.50	0.33	0.00	0.00	1.00
Bluntnose Minnow	N	O	C T	3	2.25	0.50	0.00	0.01	1.33
Central Stoneroller	N	H	N	30	22.50	5.00	0.14	0.44	6.20
Channel Catfish	F		C	9	6.75	1.50	4.58	14.46	677.78
Yellow Bullhead		I	C T	1	0.75	0.17	0.08	0.24	100.00
Flathead Catfish	F	P	C	1	0.75	0.17	0.06	0.18	78.00
Rock Bass	S	C	C	44	33.00	7.33	1.37	4.34	41.59
Smallmouth Bass	F	C	C M	18	13.50	3.00	1.25	3.95	92.50
Spotted Bass	F	C	C	19	14.25	3.17	2.74	8.65	192.11
Largemouth Bass	F	C	C	3	2.25	0.50	0.39	1.24	174.67
Green Sunfish	S	I	C T	60	45.00	10.00	1.00	3.15	22.17
Bluegill Sunfish	S	I	C P	5	3.75	0.83	0.21	0.68	57.20
Longear Sunfish	S	I	C M	145	108.75	24.17	1.84	5.83	16.95
Green Sf X Bluegill Sf				1	0.75	0.17	0.11	0.36	150.00
Green Sf X Hybrid				1	0.75	0.17	0.02	0.07	30.00
Logperch	D	I	S M	10	7.50	1.67	0.13	0.41	17.10
Johnny Darter	D	I	C	2	1.50	0.33	0.00	0.01	1.50
Greenside Darter	D	I	S M	43	32.25	7.17	0.13	0.41	4.00
Rainbow Darter	D	I	S M	8	6.00	1.33	0.01	0.03	1.25
Fantail Darter	D	I	C	12	9.00	2.00	0.02	0.05	1.75
<i>Mile Total</i>				600	450.00		31.64		
<i>Number of Species</i>				28					
<i>Number of Hybrids</i>				2					

Species List

River Code: 10-400	Stream: White Oak Creek	Sample Date: 2006
River Mile: 12.80	Location: end of road off Tracy Stat. Rd	Date Range: 08/14/2006
Time Fished: 4194 sec	Drainage: 213.0 sq mi	Thru: 09/07/2006
Dist Fished: 0.30 km	Basin: Southwest Ohio River Tribs 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
Golden Redhorse	R	I	S M	5	5.00	0.35	0.30	1.82	60.80
Northern Hog Sucker	R	I	S M	59	59.00	4.11	2.81	16.80	47.63
Silver Shiner	N	I	S I	2	2.00	0.14	0.01	0.05	4.00
Scarlet Shiner	N	I	S M	1	1.00	0.07	0.01	0.03	5.00
Striped Shiner	N	I	S	2	2.00	0.14	0.02	0.14	11.50
Bigeye Shiner [T]	N	I	S R	2	2.00	0.14	0.01	0.03	2.50
Spotfin Shiner	N	I	M	20	20.00	1.39	0.06	0.33	2.75
Sand Shiner	N	I	M M	49	49.00	3.41	0.08	0.49	1.67
Silverjaw Minnow	N	I	M	5	5.00	0.35	0.02	0.10	3.20
Bluntnose Minnow	N	O	C T	67	67.00	4.66	0.19	1.14	2.84
Central Stoneroller	N	H	N	691	691.00	48.09	5.95	35.57	8.61
Flathead Catfish	F	P	C	1	1.00	0.07	0.09	0.54	90.00
Stonecat Madtom		I	C I	8	8.00	0.56	0.04	0.23	4.88
Black Crappie	S	I	C	1	1.00	0.07	0.03	0.18	30.00
Rock Bass	S	C	C	40	40.00	2.78	1.19	7.12	29.75
Smallmouth Bass	F	C	C M	23	23.00	1.60	2.04	12.19	88.61
Spotted Bass	F	C	C	1	1.00	0.07	0.04	0.25	42.00
Largemouth Bass	F	C	C	1	1.00	0.07	0.02	0.12	20.00
Green Sunfish	S	I	C T	54	54.00	3.76	0.80	4.77	14.78
Bluegill Sunfish	S	I	C P	5	5.00	0.35	0.07	0.39	13.00
Longear Sunfish	S	I	C M	118	118.00	8.21	1.80	10.79	15.29
Green Sf X Hybrid				3	3.00	0.21	0.02	0.12	6.67
Hybrid X Sunfish				1	1.00	0.07	0.01	0.04	6.00
Logperch	D	I	S M	3	3.00	0.21	0.06	0.38	21.33
Greenside Darter	D	I	S M	210	210.00	14.61	0.92	5.50	4.38
Rainbow Darter	D	I	S M	34	34.00	2.37	0.10	0.61	3.01
Fantail Darter	D	I	C	31	31.00	2.16	0.05	0.30	1.61
<i>Mile Total</i>				1,437	1,437.00		16.72		
<i>Number of Species</i>				25					
<i>Number of Hybrids</i>				2					

Species List

River Code: 10-400	Stream: White Oak Creek	Sample Date: 2006
River Mile: 7.50	Location:	Date Range: 08/15/2006
Time Fished: 7870 sec	Drainage: 218.0 sq mi	Thru: 09/07/2006
Dist Fished: 0.40 km	Basin: Southwest Ohio River Tribs No of Passes: 2	Sampler Type: D E

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Gizzard Shad		O	M	145	108.75	5.66	3.01	10.78	27.67
Quillback	C	O	M	6	4.50	0.23	0.13	0.46	28.33
River Carpsucker	C	O	M	2	1.50	0.08	0.08	0.27	50.00
Black Redhorse	R	I	S I	16	12.00	0.62	1.22	4.36	101.44
Golden Redhorse	R	I	S M	7	5.25	0.27	0.24	0.87	46.00
Northern Hog Sucker	R	I	S M	165	123.75	6.44	4.22	15.12	34.09
White Sucker	W	O	S T	1	0.75	0.04	0.01	0.03	10.00
Smallmouth Redhorse	R	I	S M	43	32.25	1.68	2.22	7.97	68.98
Emerald Shiner	N	I	M	86	64.50	3.36	0.08	0.28	1.23
Silver Shiner	N	I	S I	17	12.75	0.66	0.04	0.14	3.00
Scarlet Shiner	N	I	S M	7	5.25	0.27	0.01	0.03	1.71
Striped Shiner	N	I	S	10	7.50	0.39	0.06	0.22	8.20
Steelcolor Shiner	N	I	M P	88	66.00	3.43	0.27	0.96	4.05
Spotfin Shiner	N	I	M	166	124.50	6.48	0.43	1.54	3.46
Sand Shiner	N	I	M M	97	72.75	3.78	0.14	0.49	1.87
Mimic Shiner	N	I	M I	4	3.00	0.16	0.00	0.01	1.25
Silverjaw Minnow	N	I	M	30	22.50	1.17	0.06	0.20	2.47
Bullhead Minnow	N	O	C	1	0.75	0.04	0.00	0.01	2.00
Bluntnose Minnow	N	O	C T	193	144.75	7.53	0.36	1.28	2.47
Central Stoneroller	N	H	N	755	566.25	29.46	7.11	25.48	12.56
Channel Catfish	F		C	2	1.50	0.08	0.06	0.22	41.00
Flathead Catfish	F	P	C	1	0.75	0.04	0.21	0.75	280.00
Stonecat Madtom		I	C I	1	0.75	0.04	0.01	0.03	10.00
Rock Bass	S	C	C	49	36.75	1.91	1.00	3.59	27.29
Smallmouth Bass	F	C	C M	31	23.25	1.21	1.83	6.55	78.55
Spotted Bass	F	C	C	15	11.25	0.59	1.82	6.52	161.67
Largemouth Bass	F	C	C	1	0.75	0.04	0.16	0.58	215.00
Green Sunfish	S	I	C T	24	18.00	0.94	0.36	1.30	20.23
Bluegill Sunfish	S	I	C P	14	10.50	0.55	0.24	0.87	23.21
Longear Sunfish	S	I	C M	35	26.25	1.37	0.43	1.53	16.23
Logperch	D	I	S M	1	0.75	0.04	0.01	0.04	13.00
Johnny Darter	D	I	C	1	0.75	0.04	0.00	0.00	1.00
Greenside Darter	D	I	S M	411	308.25	16.04	1.27	4.54	4.11
Rainbow Darter	D	I	S M	112	84.00	4.37	0.20	0.73	2.41
Fantail Darter	D	I	C	16	12.00	0.62	0.02	0.07	1.55
Freshwater Drum			M P	10	7.50	0.39	0.62	2.20	82.00
<i>Mile Total</i>				2,563	1,922.25		27.91		
<i>Number of Species</i>				36					
<i>Number of Hybrids</i>				0					

Species List

River Code: 10-400	Stream: White Oak Creek	Sample Date: 2006
River Mile: 2.60	Location:	Date Range: 08/30/2006
Time Fished: 2140 sec	Drainage: 231.0 sq mi	
Dist Fished: 0.20 km	Basin: Southwest Ohio River Tribs 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
Longnose Gar		P	M	1	1.50	0.21	0.15	0.17	100.00
Gizzard Shad		O	M	59	88.50	12.66	3.30	3.80	37.29
Golden Redhorse	R	I	S M	9	13.50	1.93	2.36	2.72	175.00
Northern Hog Sucker	R	I	S M	27	40.50	5.79	2.75	3.16	67.78
Smallmouth Redhorse	R	I	S M	4	6.00	0.86	0.52	0.60	86.25
Common Carp	G	O	M T	2	3.00	0.43	11.10	12.79	3,700.00
Emerald Shiner	N	I	M	35	52.50	7.51	0.10	0.11	1.89
Steelcolor Shiner	N	I	M P	2	3.00	0.43	0.02	0.02	7.00
Spotfin Shiner	N	I	M	5	7.50	1.07	0.05	0.06	7.00
Bluntnose Minnow	N	O	C T	1	1.50	0.21	0.00	0.00	2.00
Central Stoneroller	N	H	N	16	24.00	3.43	0.12	0.14	5.00
Channel Catfish	F		C	29	43.50	6.22	23.93	27.56	550.00
Flathead Catfish	F	P	C	7	10.50	1.50	8.63	9.94	821.43
Stonecat Madtom		I	C I	3	4.50	0.64	0.03	0.04	7.00
White Bass	F	P	M	2	3.00	0.43	0.60	0.69	200.00
Rock Bass	S	C	C	16	24.00	3.43	0.30	0.35	12.50
Smallmouth Bass	F	C	C M	4	6.00	0.86	0.68	0.78	112.50
Spotted Bass	F	C	C	22	33.00	4.72	3.23	3.71	97.73
Largemouth Bass	F	C	C	9	13.50	1.93	10.80	12.44	800.00
Green Sunfish	S	I	C T	4	6.00	0.86	0.21	0.24	35.00
Bluegill Sunfish	S	I	C P	59	88.50	12.66	4.01	4.62	45.34
Longear Sunfish	S	I	C M	53	79.50	11.37	0.15	0.17	1.89
Green Sf X Bluegill Sf				1	1.50	0.21	0.09	0.10	60.00
Sauger	F	P	S	6	9.00	1.29	1.05	1.21	116.67
Logperch	D	I	S M	5	7.50	1.07	0.11	0.12	14.00
Greenside Darter	D	I	S M	10	15.00	2.15	0.08	0.09	5.00
Rainbow Darter	D	I	S M	26	39.00	5.58	0.08	0.09	2.05
Fantail Darter	D	I	C	32	48.00	6.87	0.09	0.10	1.88
Freshwater Drum			M P	17	25.50	3.65	12.30	14.17	482.35
<i>Mile Total</i>				466	699.00		86.81		
<i>Number of Species</i>				28					
<i>Number of Hybrids</i>				1					

Species List

River Code: 10-411 River Mile: 0.60 Time Fished: 1800 sec Dist Fished: 0.12 km	Stream: Miranda Run Location: Drainage: 5.8 sq mi Basin: Southwest Ohio River Tribs No of Passes: 1	Sample Date: 2006 Date Range: 09/11/2006 Sampler Type: E
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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	15.00	0.75			
White Sucker	W	O	S	T	35	87.50	4.36			
Western Blacknose Dace	N	G	S	T	35	87.50	4.36			
Creek Chub	N	G	N	T	131	327.50	16.33			
Scarlet Shiner	N	I	S	M	16	40.00	2.00			
Striped Shiner	N	I	S		14	35.00	1.75			
Silverjaw Minnow	N	I	M		3	7.50	0.37			
Bluntnose Minnow	N	O	C	T	61	152.50	7.61			
Central Stoneroller	N	H	N		203	507.50	25.31			
Largemouth Bass	F	C	C		1	2.50	0.12			
Green Sunfish	S	I	C	T	53	132.50	6.61			
Bluegill Sunfish	S	I	C	P	3	7.50	0.37			
Longear Sunfish	S	I	C	M	11	27.50	1.37			
Johnny Darter	D	I	C		27	67.50	3.37			
Rainbow Darter	D	I	S	M	107	267.50	13.34			
Fantail Darter	D	I	C		96	240.00	11.97			
<i>Mile Total</i>					802	2,005.00				
<i>Number of Species</i>					16					
<i>Number of Hybrids</i>					0					

Species List

River Code: 10-413 River Mile: 11.40 Time Fished: 757 sec Dist Fished: 0.15 km	Stream: Sterling Run Location: Drainage: 3.4 sq mi Basin: Southwest Ohio River Tribs No of Passes: 1	Sample Date: 2006 Date Range: 07/06/2006 Sampler Type: E
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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	5	10.00	6.94			
Creek Chub	N	G	N	T	42	84.00	58.33			
Bluntnose Minnow	N	O	C	T	10	20.00	13.89			
Johnny Darter	D	I	C		15	30.00	20.83			
<i>Mile Total</i>					72	144.00				
<i>Number of Species</i>					4					
<i>Number of Hybrids</i>					0					

Species List

River Code: 10-413 River Mile: 9.70 Time Fished: 1163 sec Dist Fished: 0.15 km	Stream: Sterling Run Location: Drainage: 6.1 sq mi Basin: Southwest Ohio River Tribs No of Passes: 1	Sample Date: 2006 Date Range: 07/06/2006 Sampler Type: E
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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	27	54.00	2.11			
Golden Shiner	N	I	M	T	9	18.00	0.70			
Creek Chub	N	G	N	T	1,003	2,006.00	78.54			
Silverjaw Minnow	N	I	M		38	76.00	2.98			
Fathead Minnow	N	O	C	T	17	34.00	1.33			
Bluntnose Minnow	N	O	C	T	56	112.00	4.39			
Central Stoneroller	N	H	N		2	4.00	0.16			
Green Sunfish	S	I	C	T	10	20.00	0.78			
Bluegill Sunfish	S	I	C	P	1	2.00	0.08			
Longear Sunfish	S	I	C	M	1	2.00	0.08			
Green Sf X Hybrid					13	26.00	1.02			
Hybrid X Sunfish					1	2.00	0.08			
Johnny Darter	D	I	C		96	192.00	7.52			
Fantail Darter	D	I	C		3	6.00	0.23			
<i>Mile Total</i>					1,277	2,554.00				
<i>Number of Species</i>					12					
<i>Number of Hybrids</i>					2					

Species List

River Code: 10-413 River Mile: 6.80 Time Fished: 1800 sec Dist Fished: 0.15 km	Stream: Sterling Run Location: U.S. Rt. 68 Drainage: 11.8 sq mi Basin: Southwest Ohio River Tribs No of Passes: 1	Sample Date: 2006 Date Range: 09/11/2006 Sampler Type: E
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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	12	24.00	0.99			
Creek Chub	N	G	N	T	554	1,108.00	45.86			
Silverjaw Minnow	N	I	M		65	130.00	5.38			
Fathead Minnow	N	O	C	T	2	4.00	0.17			
Bluntnose Minnow	N	O	C	T	234	468.00	19.37			
Central Stoneroller	N	H	N		79	158.00	6.54			
Largemouth Bass	F	C	C		23	46.00	1.90			
Green Sunfish	S	I	C	T	11	22.00	0.91			
Longear Sunfish	S	I	C	M	17	34.00	1.41			
Johnny Darter	D	I	C		198	396.00	16.39			
Fantail Darter	D	I	C		13	26.00	1.08			
<i>Mile Total</i>					1,208	2,416.00				
<i>Number of Species</i>					11					
<i>Number of Hybrids</i>					0					

River Code: 10-413	Stream: Sterling Run	Sample Date: 2006
River Mile: 3.00	Location:	Date Range: 07/27/2006
Time Fished: 3189 sec	Drainage: 26.3 sq mi	
Dist Fished: 0.21 km	Basin: Southwest Ohio River Tribs 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		3	4.29	0.32	0.04	0.07	8.33
Golden Redhorse	R	I	S	M	1	1.43	0.11	0.01	0.02	8.00
Common Carp	G	O	M	T	12	17.14	1.29	30.54	62.58	1,781.25
Creek Chub	N	G	N	T	6	8.57	0.64	0.09	0.19	10.67
Striped Shiner	N	I	S		17	24.29	1.82	0.27	0.56	11.18
Bluntnose Minnow	N	O	C	T	83	118.57	8.91	0.36	0.73	3.01
Central Stoneroller	N	H	N		466	665.71	50.00	3.36	6.88	5.05
Yellow Bullhead		I	C	T	22	31.43	2.36	0.68	1.40	21.75
Black Bullhead		I	C	P	1	1.43	0.11	0.01	0.01	4.00
Flathead Catfish	F	P	C		1	1.43	0.11	9.57	19.62	6,700.00
Western Mosquitofish	E	I	N		2	2.86	0.21	0.00	0.01	1.00
White Crappie	S	I	C		3	4.29	0.32	0.03	0.06	6.67
Spotted Bass	F	C	C		27	38.57	2.90	0.14	0.29	3.67
Largemouth Bass	F	C	C		11	15.71	1.18	0.23	0.46	14.40
Green Sunfish	S	I	C	T	18	25.71	1.93	0.51	1.04	19.75
Bluegill Sunfish	S	I	C	P	47	67.14	5.04	0.47	0.97	7.05
Longear Sunfish	S	I	C	M	65	92.86	6.97	1.64	3.37	17.71
Green Sf X Longear Sf					76	108.57	8.15	0.76	1.55	6.97
Longear X Orangespot					1	1.43	0.11	0.01	0.01	5.00
Logperch	D	I	S	M	1	1.43	0.11	0.01	0.01	4.00
Johnny Darter	D	I	C		11	15.71	1.18	0.02	0.03	1.11
Rainbow Darter	D	I	S	M	26	37.14	2.79	0.03	0.06	0.80
Fantail Darter	D	I	C		32	45.71	3.43	0.03	0.06	0.63
<i>Mile Total</i>					932	1,331.43		48.79		
<i>Number of Species</i>					21					
<i>Number of Hybrids</i>					2					

Species List

River Code: 10-413	Stream: Sterling Run	Sample Date: 2006
River Mile: 0.60	Location:	Date Range: 07/26/2006
Time Fished: 2962 sec	Drainage: 29.6 sq mi	
Dist Fished: 0.20 km	Basin: Southwest Ohio River Tribs 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
Golden Redhorse	R	I	S	M	3	4.50	0.36	0.20	1.10	44.00
Northern Hog Sucker	R	I	S	M	40	60.00	4.76	3.80	21.07	63.33
White Sucker	W	O	S	T	5	7.50	0.60	0.10	0.54	13.00
Creek Chub	N	G	N	T	37	55.50	4.40	0.23	1.29	4.19
Scarlet Shiner	N	I	S	M	1	1.50	0.12	0.01	0.03	3.00
Striped Shiner	N	I	S		4	6.00	0.48	0.02	0.11	3.33
Sand Shiner	N	I	M	M	1	1.50	0.12	0.00	0.02	2.00
Bluntnose Minnow	N	O	C	T	78	117.00	9.29	0.38	2.10	3.23
Central Stoneroller	N	H	N		254	381.00	30.24	1.25	6.94	3.28
Yellow Bullhead		I	C	T	15	22.50	1.79	0.83	4.62	37.00
White Crappie	S	I	C		2	3.00	0.24	0.06	0.33	20.00
Rock Bass	S	C	C		45	67.50	5.36	4.35	24.13	64.45
Smallmouth Bass	F	C	C	M	20	30.00	2.38	2.56	14.21	85.38
Spotted Bass	F	C	C		2	3.00	0.24	0.10	0.53	32.00
Largemouth Bass	F	C	C		1	1.50	0.12	0.02	0.08	10.00
Green Sunfish	S	I	C	T	21	31.50	2.50	0.38	2.11	12.05
Bluegill Sunfish	S	I	C	P	2	3.00	0.24	0.01	0.05	3.00
Longear Sunfish	S	I	C	M	35	52.50	4.17	1.16	6.44	22.12
Pumpkinseed Sunfish	S	I	C	P	1	1.50	0.12	0.01	0.04	5.00
Hybrid X Sunfish					158	237.00	18.81	2.07	11.46	8.72
Logperch	D	I	S	M	7	10.50	0.83	0.10	0.53	9.17
Johnny Darter	D	I	C		2	3.00	0.24	0.00	0.02	1.00
Greenside Darter	D	I	S	M	27	40.50	3.21	0.19	1.04	4.62
Rainbow Darter	D	I	S	M	6	9.00	0.71	0.04	0.23	4.67
Fantail Darter	D	I	C		73	109.50	8.69	0.18	1.01	1.67
<i>Mile Total</i>					840	1,260.00		18.03		
<i>Number of Species</i>					24					
<i>Number of Hybrids</i>					1					

Species List

River Code: 10-418 River Mile: 2.40 Time Fished: 1112 sec Dist Fished: 0.15 km	Stream: Trib. to Sterling Run (RM 6.68) Location: Drainage: 3.7 sq mi Basin: Southwest Ohio River Tribs.No of Passes: 1	Sample Date: 2006 Date Range: 07/06/2006 Sampler Type: E
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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	12	24.00	15.19			
Creek Chub	N	G	N	T	34	68.00	43.04			
Fathead Minnow	N	O	C	T	1	2.00	1.27			
Bluntnose Minnow	N	O	C	T	6	12.00	7.59			
Central Stoneroller	N	H	N		1	2.00	1.27			
Green Sunfish	S	I	C	T	1	2.00	1.27			
Green Sf X Hybrid					6	12.00	7.59			
Johnny Darter	D	I	C		18	36.00	22.78			
<i>Mile Total</i>					79	158.00				
<i>Number of Species</i>					7					
<i>Number of Hybrids</i>					1					

Species List

River Code: 10-418 River Mile: 0.70 Time Fished: 1590 sec Dist Fished: 0.15 km	Stream: Trib. to Sterling Run (RM 6.68) Location: Drainage: 6.9 sq mi Basin: Southwest Ohio River Tribs.No of Passes: 1	Sample Date: 2006 Date Range: 07/06/2006 Sampler Type: E
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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	66	132.00	8.76			
Creek Chub	N	G	N	T	258	516.00	34.26			
Silverjaw Minnow	N	I	M		6	12.00	0.80			
Fathead Minnow	N	O	C	T	6	12.00	0.80			
Bluntnose Minnow	N	O	C	T	318	636.00	42.23			
Central Stoneroller	N	H	N		2	4.00	0.27			
Green Sunfish	S	I	C	T	4	8.00	0.53			
Green Sf X Longear Sf					36	72.00	4.78			
Johnny Darter	D	I	C		57	114.00	7.57			
<i>Mile Total</i>					753	1,506.00				
<i>Number of Species</i>					8					
<i>Number of Hybrids</i>					1					

Species List

River Code: 10-420	Stream: East Fork White Oak Creek	Sample Date: 2006
River Mile: 18.70	Location: St. Rt. 136	Date Range: 08/30/2006
Time Fished: 2049 sec	Drainage: 6.7 sq mi	
Dist Fished: 0.15 km	Basin: Southwest Ohio River Tribs 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	2	4.00	0.17	0.28	1.88	70.00
Northern Hog Sucker	R	I	S M	29	58.00	2.42	0.56	3.77	9.66
White Sucker	W	O	S T	25	50.00	2.09	0.64	4.30	12.80
Western Blacknose Dace	N	G	S T	11	22.00	0.92	0.05	0.35	2.36
Creek Chub	N	G	N T	126	252.00	10.54	2.32	15.60	9.21
South. Redbelly Dace	N	H	S	7	14.00	0.59	0.04	0.27	2.86
Scarlet Shiner	N	I	S M	15	30.00	1.25	0.04	0.27	1.33
Striped Shiner	N	I	S	242	484.00	20.23	2.24	15.06	4.63
Bigeye Shiner [T]	N	I	S R	3	6.00	0.25	0.01	0.07	1.67
Silverjaw Minnow	N	I	M	40	80.00	3.34	0.32	2.15	4.00
Bluntnose Minnow	N	O	C T	239	478.00	19.98	1.16	7.80	2.43
Central Stoneroller	N	H	N	278	556.00	23.24	5.56	37.39	10.00
Rock Bass	S	C	C	6	12.00	0.50	0.56	3.77	46.67
Smallmouth Bass	F	C	C M	2	4.00	0.17	0.13	0.87	32.50
Spotted Bass	F	C	C	2	4.00	0.17	0.02	0.13	5.00
Longear Sunfish	S	I	C M	20	40.00	1.67	0.47	3.16	11.75
Logperch	D	I	S M	7	14.00	0.59	0.11	0.74	7.86
Johnny Darter	D	I	C	19	38.00	1.59	0.04	0.27	1.05
Greenside Darter	D	I	S M	18	36.00	1.51	0.08	0.54	2.22
Orangethroat Darter	D	I	S	91	182.00	7.61	0.20	1.34	1.10
Fantail Darter	D	I	C	14	28.00	1.17	0.04	0.26	1.36
<i>Mile Total</i>				1,196	2,392.00		14.87		
<i>Number of Species</i>				21					
<i>Number of Hybrids</i>				0					

Species List

River Code: 10-420 River Mile: 16.50 Time Fished: 2400 sec Dist Fished: 0.15 km	Stream: East Fork White Oak Creek Location: Drainage: 12.7 sq mi Basin: Southwest Ohio River Tribs No of Passes: 1	Sample Date: 2006 Date Range: 09/20/2006 Sampler Type: E
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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		7	14.00	0.49			
Golden Redhorse	R	I	S	M	221	442.00	15.61			
Northern Hog Sucker	R	I	S	M	99	198.00	6.99			
White Sucker	W	O	S	T	61	122.00	4.31			
Scarlet Shiner	N	I	S	M	95	190.00	6.71			
Striped Shiner	N	I	S		83	166.00	5.86			
Bigeye Shiner [T]	N	I	S	R	2	4.00	0.14			
Bluntnose Minnow	N	O	C	T	56	112.00	3.95			
Central Stoneroller	N	H	N		57	114.00	4.03			
Yellow Bullhead		I	C	T	27	54.00	1.91			
Brook Silverside		I	M	M	1	2.00	0.07			
White Crappie	S	I	C		1	2.00	0.07			
Rock Bass	S	C	C		7	14.00	0.49			
Smallmouth Bass	F	C	C	M	17	34.00	1.20			
Spotted Bass	F	C	C		2	4.00	0.14			
Largemouth Bass	F	C	C		16	32.00	1.13			
Green Sunfish	S	I	C	T	34	68.00	2.40			
Bluegill Sunfish	S	I	C	P	47	94.00	3.32			
Orangespotted Sunfish	S	I	C		3	6.00	0.21			
Longear Sunfish	S	I	C	M	457	914.00	32.27			
Logperch	D	I	S	M	39	78.00	2.75			
Johnny Darter	D	I	C		11	22.00	0.78			
Greenside Darter	D	I	S	M	26	52.00	1.84			
Rainbow Darter	D	I	S	M	38	76.00	2.68			
Fantail Darter	D	I	C		9	18.00	0.64			
<i>Mile Total</i>					1,416	2,832.00				
<i>Number of Species</i>					25					
<i>Number of Hybrids</i>					0					

Species List

River Code: 10-420	Stream: East Fork White Oak Creek	Sample Date: 2006
River Mile: 10.60	Location: Mowrystown upst. Park Dam	Date Range: 07/27/2006
Time Fished: 5705 sec	Drainage: 39.0 sq mi	Thru: 09/19/2006
Dist Fished: 0.41 km	Basin: Southwest Ohio River Tribs 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
Quillback	C	O	M	2	1.43	0.12	0.72	1.70	505.00
Golden Redhorse	R	I	S M	187	137.07	11.07	22.99	54.21	170.23
Northern Hog Sucker	R	I	S M	23	17.00	1.37	0.46	1.08	26.88
White Sucker	W	O	S T	87	62.54	5.05	3.89	9.18	62.24
Common Carp	G	O	M T	1	0.71	0.06	3.64	8.59	5,100.00
Creek Chub	N	G	N T	2	1.43	0.12	0.01	0.02	5.00
Scarlet Shiner	N	I	S M	258	186.43	15.05	0.29	0.67	1.53
Striped Shiner	N	I	S	292	211.64	17.09	0.80	1.88	3.76
Bigeye Shiner [T]	N	I	S R	38	27.57	2.23	0.06	0.14	2.08
Sand Shiner	N	I	M M	1	0.71	0.06	0.00	0.00	3.00
Silverjaw Minnow	N	I	M	1	0.75	0.06	0.00	0.00	2.00
Bluntnose Minnow	N	O	C T	273	197.61	15.95	0.35	0.83	1.79
Central Stoneroller	N	H	N	8	5.75	0.46	0.09	0.22	16.25
Channel Catfish	F		C	1	0.71	0.06	0.00	0.01	5.00
Yellow Bullhead		I	C T	8	5.86	0.47	0.68	1.61	116.38
Brook Silverside		I	M M	29	21.61	1.74	0.04	0.10	1.95
Rock Bass	S	C	C	9	6.43	0.52	0.63	1.49	98.11
Smallmouth Bass	F	C	C M	25	18.54	1.50	2.03	4.80	110.48
Spotted Bass	F	C	C	14	10.18	0.82	1.53	3.61	151.50
Largemouth Bass	F	C	C	12	8.75	0.71	0.83	1.96	95.75
Green Sunfish	S	I	C T	92	67.57	5.46	1.47	3.47	22.05
Bluegill Sunfish	S	I	C P	24	17.29	1.40	0.34	0.81	19.88
Orangespotted Sunfish	S	I	C	13	9.50	0.77	0.06	0.13	5.92
Longear Sunfish	S	I	C M	70	51.79	4.18	0.72	1.69	14.01
Longear Sf X Bluegill Sf				1	0.75	0.06	0.04	0.10	55.00
Green Sf X Hybrid				174	124.29	10.03	0.41	0.98	3.33
Hybrid X Sunfish				4	2.86	0.23	0.08	0.19	27.50
Logperch	D	I	S M	35	25.25	2.04	0.21	0.50	8.32
Johnny Darter	D	I	C	21	15.14	1.22	0.01	0.03	0.76
Rainbow Darter	D	I	S M	2	1.43	0.12	0.00	0.00	1.00
<i>Mile Total</i>				1,707	1,238.57		42.41		
<i>Number of Species</i>				27					
<i>Number of Hybrids</i>				3					

Species List

River Code: 10-420	Stream: East Fork White Oak Creek	Sample Date: 2006
River Mile: 5.70	Location: dst. Bells Run	Date Range: 07/26/2006
Time Fished: 7300 sec	Drainage: 58.0 sq mi	Thru: 09/19/2006
Dist Fished: 0.35 km	Basin: Southwest Ohio River Tribs 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
Quillback	C	O	M	16	15.25	0.42	1.11	1.47	71.44
Highfin Carpsucker	C	O	M	7	5.25	0.14	0.33	0.44	63.43
Black Redhorse	R	I	S I	8	7.00	0.19	1.21	1.61	194.50
Golden Redhorse	R	I	S M	250	215.00	5.93	32.08	42.47	168.17
Northern Hog Sucker	R	I	S M	433	377.75	10.41	12.29	16.27	34.31
White Sucker	W	O	S T	42	34.75	0.96	2.07	2.74	56.91
Common Carp	G	O	M T	1	0.75	0.02	0.24	0.31	314.00
Silver Shiner	N	I	S I	86	74.25	2.05	0.35	0.47	4.69
Scarlet Shiner	N	I	S M	106	103.75	2.86	0.09	0.13	0.94
Striped Shiner	N	I	S	146	124.25	3.42	0.90	1.20	7.18
Bigeye Shiner [T]	N	I	S R	29	26.50	0.73	0.03	0.04	1.20
Spotfin Shiner	N	I	M	19	17.00	0.47	0.02	0.03	1.32
Sand Shiner	N	I	M M	278	230.25	6.35	0.32	0.42	1.36
Silverjaw Minnow	N	I	M	5	5.00	0.14	0.02	0.03	4.00
Bluntnose Minnow	N	O	C T	498	487.25	13.43	0.39	0.52	0.82
Central Stoneroller	N	H	N	238	181.75	5.01	1.15	1.52	6.32
Channel Catfish	F		C	3	3.00	0.08	2.18	2.89	726.67
Yellow Bullhead		I	C T	18	15.25	0.42	1.57	2.08	102.07
Brindled Madtom		I	C I	10	8.75	0.24	0.03	0.04	2.90
Brook Silverside		I	M M	43	42.25	1.16	0.05	0.06	1.06
White Crappie	S	I	C	5	4.00	0.11	0.64	0.85	164.40
Rock Bass	S	C	C	106	92.75	2.56	2.10	2.78	21.62
Smallmouth Bass	F	C	C M	45	39.00	1.07	1.95	2.58	51.83
Spotted Bass	F	C	C	47	38.50	1.06	3.24	4.29	88.66
Largemouth Bass	F	C	C	22	19.75	0.54	2.34	3.09	121.30
Green Sunfish	S	I	C T	189	170.50	4.70	1.52	2.01	8.99
Bluegill Sunfish	S	I	C P	83	67.75	1.87	1.42	1.88	20.85
Orangespotted Sunfish	S	I	C	9	8.25	0.23	0.04	0.06	5.33
Longear Sunfish	S	I	C M	355	333.00	9.18	3.80	5.03	12.23
Longear Sf X Bluegill Sf				2	2.00	0.06	0.07	0.09	35.00
Green Sf X Hybrid				10	7.50	0.21	0.04	0.05	5.00
Hybrid X Sunfish				182	136.50	3.76	0.64	0.85	4.68
Blackside Darter	D	I	S	8	6.25	0.17	0.02	0.03	3.75
Logperch	D	I	S M	80	66.25	1.83	0.47	0.62	7.72
Johnny Darter	D	I	C	24	20.75	0.57	0.03	0.04	1.52
Greenside Darter	D	I	S M	330	266.50	7.34	0.46	0.61	1.68
Rainbow Darter	D	I	S M	439	351.00	9.67	0.29	0.38	0.78
Fantail Darter	D	I	C	27	23.25	0.64	0.03	0.04	1.15
<i>Mile Total</i>				4,199	3,628.50		75.53		
<i>Number of Species</i>				35					
<i>Number of Hybrids</i>				3					

Species List

River Code: 10-420	Stream: East Fork White Oak Creek	Sample Date: 2006
River Mile: 3.30	Location: dst. Slabcamp Run	Date Range: 08/16/2006
Time Fished: 5400 sec	Drainage: 70.0 sq mi	Thru: 09/20/2006
Dist Fished: 0.40 km	Basin: Southwest Ohio River Tribs 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
Quillback	C	O	M	9	6.75	0.43	0.50	3.30	74.44
Black Redhorse	R	I	S I	2	1.50	0.10	0.08	0.52	52.50
Golden Redhorse	R	I	S M	70	52.50	3.37	2.93	19.24	55.86
Northern Hog Sucker	R	I	S M	157	117.75	7.57	3.60	23.60	30.55
White Sucker	W	O	S T	25	18.75	1.20	1.08	7.11	57.80
Creek Chub	N	G	N T	14	10.50	0.67	0.11	0.69	10.00
Silver Shiner	N	I	S I	42	31.50	2.02	0.13	0.84	4.05
Scarlet Shiner	N	I	S M	63	47.25	3.04	0.08	0.52	1.69
Striped Shiner	N	I	S	223	167.25	10.75	1.32	8.68	7.91
Bigeye Shiner [T]	N	I	S R	125	93.75	6.02	0.11	0.74	1.20
Spotfin Shiner	N	I	M	14	10.50	0.67	0.03	0.20	2.93
Sand Shiner	N	I	M M	186	139.50	8.96	0.20	1.34	1.47
Silverjaw Minnow	N	I	M	55	41.25	2.65	0.12	0.79	2.91
Bluntnose Minnow	N	O	C T	168	126.00	8.10	0.34	2.20	2.66
Central Stoneroller	N	H	N	228	171.00	10.99	1.07	7.03	6.27
Yellow Bullhead		I	C T	3	2.25	0.14	0.25	1.65	111.67
Brindled Madtom		I	C I	8	6.00	0.39	0.03	0.19	4.75
Brook Silverside		I	M M	13	9.75	0.63	0.01	0.08	1.26
Rock Bass	S	C	C	22	16.50	1.06	0.44	2.90	26.82
Smallmouth Bass	F	C	C M	7	5.25	0.34	0.24	1.57	45.71
Spotted Bass	F	C	C	19	14.25	0.92	0.78	5.15	55.04
Largemouth Bass	F	C	C	1	0.75	0.05	0.09	0.59	120.00
Green Sunfish	S	I	C T	27	20.25	1.30	0.23	1.48	11.11
Bluegill Sunfish	S	I	C P	3	2.25	0.14	0.01	0.07	4.33
Longear Sunfish	S	I	C M	115	86.25	5.54	0.74	4.86	8.60
Green Sf X Hybrid				1	0.75	0.05	0.01	0.05	10.00
Blackside Darter	D	I	S	3	2.25	0.14	0.02	0.10	6.67
Logperch	D	I	S M	29	21.75	1.40	0.20	1.28	8.97
Johnny Darter	D	I	C	21	15.75	1.01	0.02	0.15	1.41
Greenside Darter	D	I	S M	141	105.75	6.80	0.27	1.75	2.52
Rainbow Darter	D	I	S M	259	194.25	12.48	0.19	1.23	0.97
Fantail Darter	D	I	C	22	16.50	1.06	0.02	0.12	1.14
<i>Mile Total</i>				2,075	1,556.25		15.24		
<i>Number of Species</i>				31					
<i>Number of Hybrids</i>				1					

Species List

River Code: 10-422	Stream: Browns Run	Sample Date: 2006
River Mile: 0.10	Location:	Date Range: 07/11/2006
Time Fished: 1779 sec	Drainage: 3.9 sq mi	
Dist Fished: 0.15 km	Basin: Southwest Ohio River Tribs 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	0.11			
White Sucker	W	O	S	T	15	30.00	1.61			
Western Blacknose Dace	N	G	S	T	5	10.00	0.54			
Creek Chub	N	G	N	T	581	1,162.00	62.41			
Striped Shiner	N	I	S		1	2.00	0.11			
Sand Shiner	N	I	M	M	1	2.00	0.11			
Silverjaw Minnow	N	I	M		133	266.00	14.29			
Bluntnose Minnow	N	O	C	T	41	82.00	4.40			
Central Stoneroller	N	H	N		60	120.00	6.44			
Yellow Bullhead		I	C	T	31	62.00	3.33			
Rock Bass	S	C	C		1	2.00	0.11			
Spotted Bass	F	C	C		5	10.00	0.54			
Bluegill Sunfish	S	I	C	P	3	6.00	0.32			
Green Sf X Hybrid					18	36.00	1.93			
Johnny Darter	D	I	C		11	22.00	1.18			
Rainbow Darter	D	I	S	M	19	38.00	2.04			
Fantail Darter	D	I	C		5	10.00	0.54			
<i>Mile Total</i>					931	1,862.00				
<i>Number of Species</i>					16					
<i>Number of Hybrids</i>					1					

Species List

River Code: 10-424 River Mile: 2.90 Time Fished: 1500 sec Dist Fished: 0.15 km	Stream: Slabcamp Run Location: Drainage: 3.3 sq mi Basin: Southwest Ohio River Tribs No of Passes: 1	Sample Date: 2006 Date Range: 07/11/2006 Sampler Type: E
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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	21	42.00	7.84			
Creek Chub	N	G	N	T	160	320.00	59.70			
Scarlet Shiner	N	I	S	M	2	4.00	0.75			
Silverjaw Minnow	N	I	M		14	28.00	5.22			
Bluntnose Minnow	N	O	C	T	8	16.00	2.99			
Central Stoneroller	N	H	N		6	12.00	2.24			
Green Sf X Hybrid					11	22.00	4.10			
Johnny Darter	D	I	C		26	52.00	9.70			
Rainbow Darter	D	I	S	M	2	4.00	0.75			
Fantail Darter	D	I	C		18	36.00	6.72			
<i>Mile Total</i>					268	536.00				
<i>Number of Species</i>					9					
<i>Number of Hybrids</i>					1					

River Code: 10-424	Stream: Slabcamp Run	Sample Date: 2006
River Mile: 1.10	Location: upst. Sardinia WWTP	Date Range: 07/11/2006
Time Fished: 1757 sec	Drainage: 7.8 sq mi	
Dist Fished: 0.15 km	Basin: Southwest Ohio River Tribs 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	2	4.00	0.34			
Northern Hog Sucker	R	I	S	M	1	2.00	0.17			
White Sucker	W	O	S	T	37	74.00	6.21			
Creek Chub	N	G	N	T	178	356.00	29.87			
Silver Shiner	N	I	S	I	8	16.00	1.34			
Scarlet Shiner	N	I	S	M	8	16.00	1.34			
Striped Shiner	N	I	S		4	8.00	0.67			
Bigeye Shiner [T]	N	I	S	R	3	6.00	0.50			
Silverjaw Minnow	N	I	M		8	16.00	1.34			
Bluntnose Minnow	N	O	C	T	34	68.00	5.70			
Central Stoneroller	N	H	N		100	200.00	16.78			
Channel Catfish	F		C		1	2.00	0.17			
Rock Bass	S	C	C		2	4.00	0.34			
Largemouth Bass	F	C	C		1	2.00	0.17			
Green Sunfish	S	I	C	T	71	142.00	11.91			
Bluegill Sunfish	S	I	C	P	3	6.00	0.50			
Longear Sunfish	S	I	C	M	3	6.00	0.50			
Johnny Darter	D	I	C		29	58.00	4.87			
Greenside Darter	D	I	S	M	8	16.00	1.34			
Rainbow Darter	D	I	S	M	47	94.00	7.89			
Fantail Darter	D	I	C		48	96.00	8.05			
<i>Mile Total</i>					596	1,192.00				
<i>Number of Species</i>					21					
<i>Number of Hybrids</i>					0					

River Code: 10-426	Stream: Bells Run	Sample Date: 2006
River Mile: 2.00	Location:	Date Range: 07/07/2006
Time Fished: 1560 sec	Drainage: 4.0 sq mi	
Dist Fished: 0.15 km	Basin: Southwest Ohio River Tribs 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	2	4.00	0.81			
Western Blacknose Dace	N	G	S	T	19	38.00	7.66			
Creek Chub	N	G	N	T	201	402.00	81.05			
Bluntnose Minnow	N	O	C	T	2	4.00	0.81			
Central Stoneroller	N	H	N		7	14.00	2.82			
Green Sunfish	S	I	C	T	1	2.00	0.40			
Bluegill Sunfish	S	I	C	P	3	6.00	1.21			
Green Sf X Hybrid					7	14.00	2.82			
Hybrid X Sunfish					5	10.00	2.02			
Johnny Darter	D	I	C		1	2.00	0.40			
<i>Mile Total</i>					248	496.00				
<i>Number of Species</i>					8					
<i>Number of Hybrids</i>					2					

River Code: 10-427	Stream: Plum Run	Sample Date: 2006
River Mile: 0.30	Location:	Date Range: 08/28/2006
Time Fished: 869 sec	Drainage: 6.3 sq mi	
Dist Fished: 0.15 km	Basin: Southwest Ohio River Tribs 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	0.31	0.06	2.06	30.00
Northern Hog Sucker	R	I	S	M	6	12.00	1.86	0.40	13.74	33.33
White Sucker	W	O	S	T	20	40.00	6.19	0.21	7.25	5.26
Creek Chub	N	G	N	T	65	130.00	20.12	0.44	15.11	3.38
Scarlet Shiner	N	I	S	M	1	2.00	0.31	0.01	0.34	5.00
Striped Shiner	N	I	S		38	76.00	11.76	0.22	7.55	2.89
Silverjaw Minnow	N	I	M		4	8.00	1.24	0.04	1.37	5.00
Bluntnose Minnow	N	O	C	T	59	118.00	18.27	0.20	6.87	1.69
Central Stoneroller	N	H	N		35	70.00	10.84	0.25	8.48	3.53
Yellow Bullhead		I	C	T	1	2.00	0.31	0.03	1.03	15.00
Rock Bass	S	C	C		8	16.00	2.48	0.28	9.62	17.50
Green Sunfish	S	I	C	T	34	68.00	10.53	0.48	16.48	7.06
Longear Sunfish	S	I	C	M	3	6.00	0.93	0.07	2.40	11.67
Logperch	D	I	S	M	2	4.00	0.62	0.04	1.37	10.00
Johnny Darter	D	I	C		6	12.00	1.86	0.02	0.69	1.67
Greenside Darter	D	I	S	M	6	12.00	1.86	0.05	1.72	4.17
Rainbow Darter	D	I	S	M	14	28.00	4.33	0.04	1.51	1.57
Fantail Darter	D	I	C		20	40.00	6.19	0.07	2.40	1.75
<i>Mile Total</i>					323	646.00		2.91		
<i>Number of Species</i>					18					
<i>Number of Hybrids</i>					0					

River Code: 10-430	Stream: North Fork White Oak Creek	Sample Date: 2006
River Mile: 19.70	Location:	Date Range: 07/25/2006
Time Fished: 1689 sec	Drainage: 4.4 sq mi	
Dist Fished: 0.15 km	Basin: Southwest Ohio River Tribs 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	10	20.00	2.44			
Common Carp	G	O	M	T	21	42.00	5.13			
Golden Shiner	N	I	M	T	11	22.00	2.69			
Creek Chub	N	G	N	T	156	312.00	38.14			
Scarlet Shiner	N	I	S	M	1	2.00	0.24			
Striped Shiner	N	I	S		13	26.00	3.18			
Fathead Minnow	N	O	C	T	13	26.00	3.18			
Bluntnose Minnow	N	O	C	T	26	52.00	6.36			
Central Stoneroller	N	H	N		2	4.00	0.49			
Yellow Bullhead		I	C	T	5	10.00	1.22			
Black Bullhead		I	C	P	3	6.00	0.73			
White Crappie	S	I	C		2	4.00	0.49			
Largemouth Bass	F	C	C		1	2.00	0.24			
Green Sunfish	S	I	C	T	11	22.00	2.69			
Bluegill Sunfish	S	I	C	P	47	94.00	11.49			
Longear Sunfish	S	I	C	M	9	18.00	2.20			
Green Sf X Hybrid					32	64.00	7.82			
Hybrid X Sunfish					12	24.00	2.93			
Johnny Darter	D	I	C		29	58.00	7.09			
Fantail Darter	D	I	C		5	10.00	1.22			
<i>Mile Total</i>					409	818.00				
<i>Number of Species</i>					18					
<i>Number of Hybrids</i>					2					

Species List

River Code: 10-430	Stream: North Fork White Oak Creek	Sample Date: 2006
River Mile: 18.10	Location:	Date Range: 07/25/2006
Time Fished: 1960 sec	Drainage:	
Dist Fished: 0.15 km	Basin: Southwest Ohio River Tribs 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	32	64.00	2.36			
Golden Shiner	N	I	M	T	1	2.00	0.07			
Creek Chub	N	G	N	T	291	582.00	21.49			
Scarlet Shiner	N	I	S	M	6	12.00	0.44			
Striped Shiner	N	I	S		112	224.00	8.27			
Bigeye Shiner [T]	N	I	S	R	18	36.00	1.33			
Sand Shiner	N	I	M	M	1	2.00	0.07			
Silverjaw Minnow	N	I	M		36	72.00	2.66			
Fathead Minnow	N	O	C	T	121	242.00	8.94			
Bluntnose Minnow	N	O	C	T	236	472.00	17.43			
Central Stoneroller	N	H	N		203	406.00	14.99			
Yellow Bullhead		I	C	T	1	2.00	0.07			
Brook Silverside		I	M	M	1	2.00	0.07			
Largemouth Bass	F	C	C		5	10.00	0.37			
Green Sunfish	S	I	C	T	18	36.00	1.33			
Bluegill Sunfish	S	I	C	P	14	28.00	1.03			
Longear Sunfish	S	I	C	M	30	60.00	2.22			
Green Sf X Longear Sf					32	64.00	2.36			
Green Sf X Hybrid					3	6.00	0.22			
Hybrid X Sunfish					2	4.00	0.15			
Johnny Darter	D	I	C		33	66.00	2.44			
Greenside Darter	D	I	S	M	2	4.00	0.15			
Rainbow Darter	D	I	S	M	76	152.00	5.61			
Fantail Darter	D	I	C		80	160.00	5.91			
<i>Mile Total</i>					1,354	2,708.00				
<i>Number of Species</i>					21					
<i>Number of Hybrids</i>					3					

Species List

River Code: 10-430	Stream: North Fork White Oak Creek	Sample Date: 2006
River Mile: 15.30	Location:	Date Range: 07/05/2006
Time Fished: 2304 sec	Drainage: 12.0 sq mi	
Dist Fished: 0.15 km	Basin: Southwest Ohio River Tribs 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	7	14.00	0.66			
Northern Hog Sucker	R	I	S	M	9	18.00	0.85			
White Sucker	W	O	S	T	49	98.00	4.61			
Goldfish	G	O	M	T	1	2.00	0.09			
Creek Chub	N	G	N	T	95	190.00	8.94			
Scarlet Shiner	N	I	S	M	6	12.00	0.56			
Striped Shiner	N	I	S		81	162.00	7.62			
Bigeye Shiner [T]	N	I	S	R	35	70.00	3.29			
Sand Shiner	N	I	M	M	35	70.00	3.29			
Silverjaw Minnow	N	I	M		7	14.00	0.66			
Fathead Minnow	N	O	C	T	4	8.00	0.38			
Bluntnose Minnow	N	O	C	T	279	558.00	26.25			
Central Stoneroller	N	H	N		169	338.00	15.90			
Yellow Bullhead		I	C	T	12	24.00	1.13			
Brook Silverside		I	M	M	3	6.00	0.28			
Rock Bass	S	C	C		3	6.00	0.28			
Largemouth Bass	F	C	C		6	12.00	0.56			
Green Sunfish	S	I	C	T	13	26.00	1.22			
Bluegill Sunfish	S	I	C	P	14	28.00	1.32			
Longear Sunfish	S	I	C	M	15	30.00	1.41			
Green Sf X Hybrid					7	14.00	0.66			
Hybrid X Sunfish					33	66.00	3.10			
Johnny Darter	D	I	C		19	38.00	1.79			
Greenside Darter	D	I	S	M	14	28.00	1.32			
Rainbow Darter	D	I	S	M	109	218.00	10.25			
Fantail Darter	D	I	C		38	76.00	3.57			
<i>Mile Total</i>					1,063	2,126.00				
<i>Number of Species</i>					24					
<i>Number of Hybrids</i>					2					

Species List

River Code: 10-430	Stream: North Fork White Oak Creek	Sample Date: 2006
River Mile: 9.70	Location:	Date Range: 08/16/2006
Time Fished: 2652 sec	Drainage: 36.0 sq mi	Thru: 09/07/2006
Dist Fished: 0.30 km	Basin: Southwest Ohio River Tribs 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
Golden Redhorse	R	I	S	M	5	5.00	0.50	0.10	1.48	20.00
Northern Hog Sucker	R	I	S	M	43	43.00	4.27	1.06	15.60	24.53
White Sucker	W	O	S	T	26	26.00	2.58	0.53	7.87	20.49
Creek Chub	N	G	N	T	49	49.00	4.87	0.49	7.19	9.92
Silver Shiner	N	I	S	I	6	6.00	0.60	0.04	0.62	7.00
Scarlet Shiner	N	I	S	M	7	7.00	0.70	0.03	0.37	3.57
Striped Shiner	N	I	S		194	194.00	19.27	1.03	15.24	5.31
Bigeye Shiner [T]	N	I	S	R	26	26.00	2.58	0.07	0.96	2.50
Sand Shiner	N	I	M	M	38	38.00	3.77	0.06	0.87	1.55
Mimic Shiner	N	I	M	I	4	4.00	0.40	0.01	0.13	2.25
Silverjaw Minnow	N	I	M		97	97.00	9.63	0.29	4.32	3.01
Bluntnose Minnow	N	O	C	T	80	80.00	7.94	0.17	2.53	2.13
Central Stoneroller	N	H	N		80	80.00	7.94	0.38	5.66	4.78
Yellow Bullhead		I	C	T	6	6.00	0.60	0.11	1.61	18.17
Brook Silverside		I	M	M	1	1.00	0.10	0.00	0.06	4.00
Rock Bass	S	C	C		9	9.00	0.89	0.36	5.25	39.44
Spotted Bass	F	C	C		1	1.00	0.10	0.12	1.77	120.00
Largemouth Bass	F	C	C		4	4.00	0.40	0.08	1.24	21.00
Green Sunfish	S	I	C	T	34	34.00	3.38	0.33	4.87	9.69
Bluegill Sunfish	S	I	C	P	1	1.00	0.10	0.01	0.16	11.00
Longear Sunfish	S	I	C	M	146	146.00	14.50	1.13	16.76	7.76
Hybrid X Sunfish					1	1.00	0.10	0.01	0.07	5.00
Blackside Darter	D	I	S		4	4.00	0.40	0.04	0.56	9.50
Logperch	D	I	S	M	13	13.00	1.29	0.14	2.06	10.68
Johnny Darter	D	I	C		33	33.00	3.28	0.03	0.46	0.94
Greenside Darter	D	I	S	M	22	22.00	2.18	0.06	0.83	2.53
Rainbow Darter	D	I	S	M	72	72.00	7.15	0.09	1.35	1.26
Fantail Darter	D	I	C		5	5.00	0.50	0.01	0.11	1.50
<i>Mile Total</i>					1,007	1,007.00		6.76		
<i>Number of Species</i>					27					
<i>Number of Hybrids</i>					1					

Species List

River Code: 10-430	Stream: North Fork White Oak Creek	Sample Date: 2006
River Mile: 7.00	Location: Sicily Rd.	Date Range: 07/11/2006
Time Fished: 3430 sec	Drainage: 46.0 sq mi	Thru: 08/16/2006
Dist Fished: 0.35 km	Basin: Southwest Ohio River Tribs No of Passes: 2	Sampler Type: D E

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Golden Redhorse	R	I	S	M	15	13.00	1.48	2.20	22.51	192.93
Northern Hog Sucker	R	I	S	M	43	35.50	4.04	1.53	15.72	44.13
Creek Chub	N	G	N	T	7	5.25	0.60	0.01	0.09	1.67
Silver Shiner	N	I	S	I	17	15.25	1.74	0.07	0.69	4.29
Scarlet Shiner	N	I	S	M	50	38.25	4.35	0.07	0.68	1.74
Striped Shiner	N	I	S		141	125.75	14.31	0.70	7.12	5.39
Bigeye Shiner [T]	N	I	S	R	115	88.75	10.10	0.12	1.26	1.38
Sand Shiner	N	I	M	M	119	106.25	12.09	0.15	1.58	1.47
Silverjaw Minnow	N	I	M		57	45.25	5.15	0.14	1.38	2.98
Bluntnose Minnow	N	O	C	T	26	22.00	2.50	0.05	0.52	2.22
Central Stoneroller	N	H	N		97	75.75	8.62	0.26	2.66	3.30
Yellow Bullhead		I	C	T	11	9.50	1.08	0.25	2.57	24.55
Brook Silverside		I	M	M	6	6.00	0.68	0.01	0.07	1.17
Rock Bass	S	C	C		9	7.00	0.80	0.37	3.79	53.67
Spotted Bass	F	C	C		1	1.00	0.11	0.07	0.67	65.00
Largemouth Bass	F	C	C		16	12.00	1.37	1.76	18.07	146.91
Green Sunfish	S	I	C	T	12	9.25	1.05	0.52	5.34	55.46
Bluegill Sunfish	S	I	C	P	1	1.00	0.11	0.01	0.10	10.00
Longear Sunfish	S	I	C	M	52	43.00	4.89	0.95	9.77	22.67
Green Sf X Hybrid					107	80.25	9.13	0.27	2.74	3.33
Logperch	D	I	S	M	10	8.25	0.94	0.08	0.85	9.70
Johnny Darter	D	I	C		18	14.75	1.68	0.01	0.10	0.61
Greenside Darter	D	I	S	M	35	31.00	3.53	0.07	0.74	2.17
Rainbow Darter	D	I	S	M	83	69.25	7.88	0.08	0.85	1.13
Fantail Darter	D	I	C		18	15.25	1.74	0.01	0.13	0.85
<i>Mile Total</i>					1,066	878.50		9.76		
<i>Number of Species</i>					24					
<i>Number of Hybrids</i>					1					

Species List

River Code: 10-430	Stream: North Fork White Oak Creek	Sample Date: 2006
River Mile: 1.50	Location:	Date Range: 07/06/2006
Time Fished: 4808 sec	Drainage: 53.6 sq mi	Thru: 09/11/2006
Dist Fished: 0.37 km	Basin: Southwest Ohio River Tribs No of Passes: 2	Sampler Type: D E

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Quillback	C	O	M	2	2.00	0.05	0.02	0.13	10.00
Highfin Carpsucker	C	O	M	1	0.68	0.02	0.01	0.05	10.00
Golden Redhorse	R	I	S M	45	38.32	0.92	0.41	2.70	10.24
Northern Hog Sucker	R	I	S M	175	148.91	3.57	2.88	18.85	20.71
White Sucker	W	O	S T	36	32.18	0.77	0.49	3.18	15.28
Western Blacknose Dace	N	G	S T	1	0.68	0.02	0.00	0.01	2.00
Creek Chub	N	G	N T	52	42.77	1.02	0.45	2.97	9.55
Silver Shiner	N	I	S I	10	8.09	0.19	0.03	0.18	3.40
Scarlet Shiner	N	I	S M	106	91.36	2.19	0.09	0.60	1.02
Striped Shiner	N	I	S	138	119.23	2.86	0.56	3.67	4.72
Bigeye Shiner [T]	N	I	S R	135	100.64	2.41	0.10	0.66	0.99
Spotfin Shiner	N	I	M	51	35.41	0.85	0.10	0.67	2.88
Sand Shiner	N	I	M M	1,578	1,247.73	29.88	1.15	7.57	0.94
Silverjaw Minnow	N	I	M	783	655.41	15.70	0.93	6.11	1.47
Bluntnose Minnow	N	O	C T	774	624.14	14.95	0.82	5.39	1.33
Central Stoneroller	N	H	N	352	308.09	7.38	1.62	10.63	5.31
Yellow Bullhead		I	C T	14	12.09	0.29	0.35	2.29	30.43
Brindled Madtom		I	C I	7	7.00	0.17	0.03	0.20	4.29
Brook Silverside		I	M M	2	1.36	0.03	0.00	0.01	1.00
Rock Bass	S	C	C	27	22.86	0.55	0.33	2.15	13.70
Spotted Bass	F	C	C	5	4.36	0.10	0.25	1.62	53.60
Largemouth Bass	F	C	C	13	8.86	0.21	0.59	3.89	66.92
Green Sunfish	S	I	C T	10	9.36	0.22	0.09	0.62	11.00
Bluegill Sunfish	S	I	C P	1	0.68	0.02	0.00	0.01	2.00
Longear Sunfish	S	I	C M	228	200.64	4.80	2.93	19.18	16.84
Green Sf X Hybrid				4	2.73	0.07	0.03	0.21	12.00
Hybrid X Sunfish				198	135.00	3.23	0.51	3.37	3.80
Blackside Darter	D	I	S	1	1.00	0.02	0.01	0.04	6.00
Logperch	D	I	S M	17	13.50	0.32	0.09	0.57	6.68
Johnny Darter	D	I	C	56	49.32	1.18	0.05	0.33	1.03
Greenside Darter	D	I	S M	128	111.14	2.66	0.19	1.26	1.78
Rainbow Darter	D	I	S M	177	136.91	3.28	0.13	0.88	0.98
Fantail Darter	D	I	C	4	3.36	0.08	0.00	0.03	1.25
<i>Mile Total</i>				5,131	4,175.82		15.25		
<i>Number of Species</i>				31					
<i>Number of Hybrids</i>				2					

River Code: 10-431	Stream: Flat Run	Sample Date: 2006
River Mile: 4.80	Location:	Date Range: 07/26/2006
Time Fished: 1504 sec	Drainage: 3.9 sq mi	
Dist Fished: 0.15 km	Basin: Southwest Ohio River Tribs 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	18	36.00	4.95			
Creek Chub	N	G	N	T	189	378.00	51.92			
Striped Shiner	N	I	S		7	14.00	1.92			
Silverjaw Minnow	N	I	M		15	30.00	4.12			
Fathead Minnow	N	O	C	T	3	6.00	0.82			
Bluntnose Minnow	N	O	C	T	21	42.00	5.77			
Central Stoneroller	N	H	N		7	14.00	1.92			
Green Sunfish	S	I	C	T	3	6.00	0.82			
Green Sf X Hybrid					16	32.00	4.40			
Hybrid X Sunfish					1	2.00	0.27			
Johnny Darter	D	I	C		15	30.00	4.12			
Greenside Darter	D	I	S	M	12	24.00	3.30			
Rainbow Darter	D	I	S	M	36	72.00	9.89			
Fantail Darter	D	I	C		21	42.00	5.77			
<i>Mile Total</i>					364	728.00				
<i>Number of Species</i>					12					
<i>Number of Hybrids</i>					2					

River Code: 10-431	Stream: Flat Run	Sample Date: 2006
River Mile: 3.40	Location:	Date Range: 07/26/2006
Time Fished: 1898 sec	Drainage: 7.4 sq mi	
Dist Fished: 0.15 km	Basin: Southwest Ohio River Tribs 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	3	6.00	1.21			
Creek Chub	N	G	N	T	1	2.00	0.40			
Scarlet Shiner	N	I	S	M	3	6.00	1.21			
Striped Shiner	N	I	S		71	142.00	28.63			
Bigeye Shiner [T]	N	I	S	R	7	14.00	2.82			
Bluntnose Minnow	N	O	C	T	17	34.00	6.85			
Central Stoneroller	N	H	N		1	2.00	0.40			
Green Sunfish	S	I	C	T	4	8.00	1.61			
Bluegill Sunfish	S	I	C	P	3	6.00	1.21			
Longear Sunfish	S	I	C	M	19	38.00	7.66			
Green Sf X Hybrid					76	152.00	30.65			
Johnny Darter	D	I	C		6	12.00	2.42			
Greenside Darter	D	I	S	M	3	6.00	1.21			
Rainbow Darter	D	I	S	M	11	22.00	4.44			
Fantail Darter	D	I	C		23	46.00	9.27			
<i>Mile Total</i>					248	496.00				
<i>Number of Species</i>					14					
<i>Number of Hybrids</i>					1					

River Code: 10-431	Stream: Flat Run	Sample Date: 2006
River Mile: 0.20	Location:	Date Range: 07/06/2006
Time Fished: 3760 sec	Drainage: 12.3 sq mi	
Dist Fished: 0.16 km	Basin: Southwest Ohio River Tribs 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	4	7.50	0.46			
Northern Hog Sucker	R	I	S	M	4	7.50	0.46			
White Sucker	W	O	S	T	41	76.88	4.69			
Creek Chub	N	G	N	T	161	301.88	18.42			
Scarlet Shiner	N	I	S	M	9	16.88	1.03			
Striped Shiner	N	I	S		40	75.00	4.58			
Bigeye Shiner [T]	N	I	S	R	6	11.25	0.69			
Sand Shiner	N	I	M	M	100	187.50	11.44			
Silverjaw Minnow	N	I	M		69	129.38	7.89			
Bluntnose Minnow	N	O	C	T	130	243.75	14.87			
Central Stoneroller	N	H	N		93	174.38	10.64			
Yellow Bullhead		I	C	T	12	22.50	1.37			
Rock Bass	S	C	C		1	1.88	0.11			
Largemouth Bass	F	C	C		3	5.63	0.34			
Warmouth Sunfish	S	C	C		2	3.75	0.23			
Green Sunfish	S	I	C	T	2	3.75	0.23			
Bluegill Sunfish	S	I	C	P	7	13.13	0.80			
Longear Sunfish	S	I	C	M	6	11.25	0.69			
Green Sf X Hybrid					97	181.88	11.10			
Logperch	D	I	S	M	1	1.88	0.11			
Johnny Darter	D	I	C		19	35.63	2.17			
Greenside Darter	D	I	S	M	7	13.13	0.80			
Rainbow Darter	D	I	S	M	45	84.38	5.15			
Fantail Darter	D	I	C		15	28.13	1.72			
<i>Mile Total</i>					874	1,638.75				
<i>Number of Species</i>					23					
<i>Number of Hybrids</i>					1					

River Code: 10-436	Stream: Little North Fork	Sample Date: 2006
River Mile: 5.10	Location:	Date Range: 07/25/2006
Time Fished: 1701 sec	Drainage: 3.6 sq mi	
Dist Fished: 0.15 km	Basin: Southwest Ohio River Tribs No of Passes: 1	Sampler Type: E

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
White Sucker	W	O	S	T	11	22.00	2.48			
Golden Shiner	N	I	M	T	3	6.00	0.68			
Creek Chub	N	G	N	T	82	164.00	18.47			
Scarlet Shiner	N	I	S	M	7	14.00	1.58			
Striped Shiner	N	I	S		37	74.00	8.33			
Bigeye Shiner [T]	N	I	S	R	2	4.00	0.45			
Sand Shiner	N	I	M	M	1	2.00	0.23			
Silverjaw Minnow	N	I	M		11	22.00	2.48			
Fathead Minnow	N	O	C	T	37	74.00	8.33			
Bluntnose Minnow	N	O	C	T	38	76.00	8.56			
Central Stoneroller	N	H	N		58	116.00	13.06			
Yellow Bullhead		I	C	T	2	4.00	0.45			
Brown Bullhead		I	C	T	4	8.00	0.90			
Largemouth Bass	F	C	C		7	14.00	1.58			
Green Sunfish	S	I	C	T	24	48.00	5.41			
Longear Sunfish	S	I	C	M	3	6.00	0.68			
Green Sf X Hybrid					81	162.00	18.24			
Hybrid X Sunfish					3	6.00	0.68			
Johnny Darter	D	I	C		15	30.00	3.38			
Rainbow Darter	D	I	S	M	6	12.00	1.35			
Fantail Darter	D	I	C		12	24.00	2.70			
<i>Mile Total</i>					444	888.00				
<i>Number of Species</i>					19					
<i>Number of Hybrids</i>					2					

River Code: 10-436	Stream: Little North Fork	Sample Date: 2006
River Mile: 2.90	Location:	Date Range: 07/25/2006
Time Fished: 1701 sec	Drainage: 7.3 sq mi	
Dist Fished: 0.15 km	Basin: Southwest Ohio River Tribs 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	84	168.00	9.35			
Western Blacknose Dace	N	G	S	T	26	52.00	2.90			
Creek Chub	N	G	N	T	192	384.00	21.38			
South. Redbelly Dace	N	H	S		20	40.00	2.23			
Scarlet Shiner	N	I	S	M	17	34.00	1.89			
Striped Shiner	N	I	S		136	272.00	15.14			
Bigeye Shiner [T]	N	I	S	R	7	14.00	0.78			
Sand Shiner	N	I	M	M	19	38.00	2.12			
Silverjaw Minnow	N	I	M		74	148.00	8.24			
Fathead Minnow	N	O	C	T	9	18.00	1.00			
Bluntnose Minnow	N	O	C	T	61	122.00	6.79			
Central Stoneroller	N	H	N		114	228.00	12.69			
Yellow Bullhead		I	C	T	1	2.00	0.11			
Largemouth Bass	F	C	C		5	10.00	0.56			
Green Sunfish	S	I	C	T	14	28.00	1.56			
Longear Sunfish	S	I	C	M	12	24.00	1.34			
Green Sf X Hybrid					29	58.00	3.23			
Johnny Darter	D	I	C		16	32.00	1.78			
Rainbow Darter	D	I	S	M	52	104.00	5.79			
Fantail Darter	D	I	C		10	20.00	1.11			
<i>Mile Total</i>					898	1,796.00				
<i>Number of Species</i>					19					
<i>Number of Hybrids</i>					1					

River Code: 10-436	Stream: Little North Fork	Sample Date: 2006
River Mile: 0.30	Location:	Date Range: 08/29/2006
Time Fished: 928 sec	Drainage: 13.8 sq mi	
Dist Fished: 0.15 km	Basin: Southwest Ohio River Tribs 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	0.21	0.02	0.55	10.00
White Sucker	W	O	S T	10	20.00	2.05	0.10	2.76	5.00
Western Blacknose Dace	N	G	S T	1	2.00	0.21	0.00	0.11	2.00
Creek Chub	N	G	N T	76	152.00	15.61	0.88	24.30	5.79
South. Redbelly Dace	N	H	S	2	4.00	0.41	0.01	0.22	2.00
Scarlet Shiner	N	I	S M	2	4.00	0.41	0.02	0.44	4.00
Striped Shiner	N	I	S	71	142.00	14.58	0.50	13.80	3.52
Bigeye Shiner [T]	N	I	S R	8	16.00	1.64	0.08	2.21	5.00
Silverjaw Minnow	N	I	M	22	44.00	4.52	0.16	4.42	3.64
Bluntnose Minnow	N	O	C T	57	114.00	11.70	0.27	7.45	2.37
Central Stoneroller	N	H	N	117	234.00	24.02	0.73	20.04	3.10
Yellow Bullhead		I	C T	7	14.00	1.44	0.08	2.21	5.71
Largemouth Bass	F	C	C	4	8.00	0.82	0.07	1.93	8.75
Green Sunfish	S	I	C T	1	2.00	0.21	0.03	0.83	15.00
Longear Sunfish	S	I	C M	11	22.00	2.26	0.24	6.63	10.91
Johnny Darter	D	I	C	27	54.00	5.54	0.08	2.21	1.48
Greenside Darter	D	I	S M	4	8.00	0.82	0.04	1.10	5.00
Rainbow Darter	D	I	S M	14	28.00	2.87	0.10	2.76	3.57
Orangethroat Darter	D	I	S	42	84.00	8.62	0.14	3.81	1.64
Fantail Darter	D	I	C	10	20.00	2.05	0.08	2.21	4.00
<i>Mile Total</i>				487	974.00		3.62		
<i>Number of Species</i>				20					
<i>Number of Hybrids</i>				0					

River Code: 10-441	Stream: Trib to E Fk White Oak Creek (RM 14.35)	Sample Date: 2006
River Mile: 0.10	Location:	Date Range: 08/29/2006
Time Fished: 2150 sec	Drainage: 3.2 sq mi	
Dist Fished: 0.15 km	Basin: Southwest Ohio River Tribs 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	10	20.00	0.45	0.28	1.51	14.00
Northern Hog Sucker	R	I	S	M	15	30.00	0.67	0.62	3.35	20.67
White Sucker	W	O	S	T	237	474.00	10.60	3.90	21.10	8.23
Golden Shiner	N	I	M	T	1	2.00	0.04	0.06	0.32	30.00
Creek Chub	N	G	N	T	60	120.00	2.68	1.10	5.95	9.17
Scarlet Shiner	N	I	S	M	24	48.00	1.07	0.08	0.45	1.75
Striped Shiner	N	I	S		265	530.00	11.86	2.22	12.01	4.19
Bigeye Shiner [T]	N	I	S	R	56	112.00	2.51	0.18	1.00	1.64
Silverjaw Minnow	N	I	M		107	214.00	4.79	0.50	2.70	2.34
Fathead Minnow	N	O	C	T	3	6.00	0.13	0.03	0.16	5.00
Bluntnose Minnow	N	O	C	T	1,134	2,268.00	50.74	5.38	29.10	2.37
Central Stoneroller	N	H	N		115	230.00	5.15	1.90	10.28	8.26
Yellow Bullhead		I	C	T	1	2.00	0.04	0.04	0.22	20.00
Brook Silverside		I	M	M	1	2.00	0.04	0.01	0.05	5.00
Rock Bass	S	C	C		1	2.00	0.04	0.03	0.16	15.00
Largemouth Bass	F	C	C		4	8.00	0.18	0.39	2.11	48.75
Bluegill Sunfish	S	I	C	P	6	12.00	0.27	0.08	0.43	6.67
Longear Sunfish	S	I	C	M	158	316.00	7.07	1.42	7.66	4.48
Logperch	D	I	S	M	4	8.00	0.18	0.09	0.49	11.25
Johnny Darter	D	I	C		10	20.00	0.45	0.04	0.22	2.00
Greenside Darter	D	I	S	M	3	6.00	0.13	0.05	0.27	8.33
Rainbow Darter	D	I	S	M	20	40.00	0.89	0.08	0.45	2.11
<i>Mile Total</i>					2,235	4,470.00		18.49		
<i>Number of Species</i>					22					
<i>Number of Hybrids</i>					0					

Species List

River Code: 10-442 River Mile: 2.10 Time Fished: 1805 sec Dist Fished: 0.12 km	Stream: Trib to E Fk White Oak Creek (RM 15.52) Location: Drainage: 4.6 sq mi Basin: Southwest Ohio River Tribs No of Passes: 1	Sample Date: 2006 Date Range: 09/21/2006 Sampler Type: E
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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	52	130.00	4.58			
Western Blacknose Dace	N	G	S	T	66	165.00	5.81			
Creek Chub	N	G	N	T	183	457.50	16.11			
South. Redbelly Dace	N	H	S		7	17.50	0.62			
Scarlet Shiner	N	I	S	M	20	50.00	1.76			
Striped Shiner	N	I	S		199	497.50	17.52			
Sand Shiner	N	I	M	M	3	7.50	0.26			
Silverjaw Minnow	N	I	M		36	90.00	3.17			
Fathead Minnow	N	O	C	T	27	67.50	2.38			
Bluntnose Minnow	N	O	C	T	317	792.50	27.90			
Central Stoneroller	N	H	N		128	320.00	11.27			
Largemouth Bass	F	C	C		1	2.50	0.09			
Green Sunfish	S	I	C	T	7	17.50	0.62			
Longear Sunfish	S	I	C	M	19	47.50	1.67			
Johnny Darter	D	I	C		37	92.50	3.26			
Greenside Darter	D	I	S	M	1	2.50	0.09			
Rainbow Darter	D	I	S	M	33	82.50	2.90			
<i>Mile Total</i>					1,136	2,840.00				
<i>Number of Species</i>					17					
<i>Number of Hybrids</i>					0					

Species List

River Code: 10-442	Stream: Trib to E Fk White Oak Creek (RM 15.52)	Sample Date: 2006
River Mile: 0.30	Location:	Date Range: 07/27/2006
Time Fished: 2008 sec	Drainage: 7.1 sq mi	
Dist Fished: 0.15 km	Basin: Southwest Ohio River Tribs 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	23	46.00	2.73			
Northern Hog Sucker	R	I	S	M	3	6.00	0.36			
White Sucker	W	O	S	T	58	116.00	6.88			
Western Blacknose Dace	N	G	S	T	3	6.00	0.36			
Creek Chub	N	G	N	T	23	46.00	2.73			
South. Redbelly Dace	N	H	S		1	2.00	0.12			
Scarlet Shiner	N	I	S	M	44	88.00	5.22			
Striped Shiner	N	I	S		168	336.00	19.93			
Bigeye Shiner [T]	N	I	S	R	3	6.00	0.36			
Sand Shiner	N	I	M	M	31	62.00	3.68			
Silverjaw Minnow	N	I	M		54	108.00	6.41			
Bluntnose Minnow	N	O	C	T	116	232.00	13.76			
Central Stoneroller	N	H	N		159	318.00	18.86			
Yellow Bullhead		I	C	T	8	16.00	0.95			
Rock Bass	S	C	C		3	6.00	0.36			
Smallmouth Bass	F	C	C	M	3	6.00	0.36			
Green Sunfish	S	I	C	T	2	4.00	0.24			
Longear Sunfish	S	I	C	M	3	6.00	0.36			
Hybrid X Sunfish					29	58.00	3.44			
Logperch	D	I	S	M	11	22.00	1.30			
Johnny Darter	D	I	C		8	16.00	0.95			
Greenside Darter	D	I	S	M	23	46.00	2.73			
Rainbow Darter	D	I	S	M	59	118.00	7.00			
Fantail Darter	D	I	C		8	16.00	0.95			
<i>Mile Total</i>					843	1,686.00				
<i>Number of Species</i>					23					
<i>Number of Hybrids</i>					1					

Appendix A-5

Aquatic macroinvertebrate species lists for sampling locations
in the White Oak Creek study area, 2006.

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: White Oak Creek
White Station Rd.

Collection Date: 08/22/2006 River Code: 10-400 RM: 27.60

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
03600	<i>Oligochaeta</i>	+	82820	<i>Cryptochironomus sp</i>	+
08250	<i>Orconectes (Procericambarus) rusticus</i>	+	83300	<i>Glyptotendipes (G.) sp</i>	+
08601	<i>Hydrachnidia</i>	+	84450	<i>Polypedilum (Uresipedilum) flavum</i>	+
11020	<i>Acerpenna pygmaea</i>	+	84470	<i>Polypedilum (P.) illinoense</i>	+
11130	<i>Baetis intercalaris</i>	+	84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+
11650	<i>Procloeon sp (w/ hindwing pads)</i>	+	84700	<i>Stenochironomus sp</i>	+
11651	<i>Procloeon sp (w/o hindwing pads)</i>	+	84750	<i>Stictochironomus sp</i>	+
11670	<i>Procloeon viridoculare</i>	+	84790	<i>Tribelos fuscicorne</i>	+
12200	<i>Isonychia sp</i>	+	85201	<i>Cladotanytarsus species group A</i>	+
13000	<i>Leucrocuta sp</i>	+	85625	<i>Rheotanytarsus sp</i>	+
13100	<i>Nixe sp</i>	+	85800	<i>Tanytarsus sp</i>	+
13400	<i>Stenacron sp</i>	+	87540	<i>Hemerodromia sp</i>	+
13521	<i>Stenonema femoratum</i>	+	93900	<i>Elimia sp</i>	+
13561	<i>Maccaffertium pulchellum</i>	+	97601	<i>Corbicula fluminea</i>	+
17200	<i>Caenis sp</i>	+	98600	<i>Sphaerium sp</i>	+
21200	<i>Calopteryx sp</i>	+	99860	<i>Lampsilis radiata luteola</i>	+
22001	<i>Coenagrionidae</i>	+			
22300	<i>Argia sp</i>	+	No. Quantitative Taxa: 0		Total Taxa: 60
23909	<i>Boyeria vinosa</i>	+	No. Qualitative Taxa: 60		ICI:
34715	<i>Agnatina flavescens</i>	+	Number of Organisms: 0		Qual EPT: 23
47600	<i>Sialis sp</i>	+			
48410	<i>Corydalus cornutus</i>	+			
50315	<i>Chimarra obscura</i>	+			
51400	<i>Nyctiophylax sp</i>	+			
51600	<i>Polycentropus sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
52430	<i>Ceratopsyche morosa group</i>	+			
52530	<i>Hydropsyche depravata group</i>	+			
53800	<i>Hydroptila sp</i>	+			
54200	<i>Orthotrichia sp</i>	+			
57400	<i>Neophylax sp</i>	+			
58505	<i>Helicopsyche borealis</i>	+			
59970	<i>Petrophila sp</i>	+			
68075	<i>Psephenus herricki</i>	+			
68130	<i>Helichus sp</i>	+			
68601	<i>Ancyronyx variegata</i>	+			
68708	<i>Dubiraphia vittata group</i>	+			
68901	<i>Macronychus glabratus</i>	+			
69400	<i>Stenelmis sp</i>	+			
72700	<i>Anopheles sp</i>	+			
77120	<i>Ablabesmyia mallochi</i>	+			
77800	<i>Helopelopia sp</i>	+			
78655	<i>Procladius (Holotanypus) sp</i>	+			
80363	<i>Corynoneura sp 12</i>	+			

Ohio EPA/DSW Ecological Assessment Section
 Macroinvertebrate Collection

Site: White Oak Creek

Collection Date: 08/22/2006 River Code: 10-400 RM: 20.60

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
00401	<i>Spongillidae</i>	+	97601	<i>Corbicula fluminea</i>	+
03600	<i>Oligochaeta</i>	+			
04964	<i>Mooreobdella microstoma</i>	+	No. Quantitative Taxa: 0		Total Taxa: 45
11020	<i>Acerpenna pygmaea</i>	+	No. Qualitative Taxa: 45		ICI:
11130	<i>Baetis intercalaris</i>	+	Number of Organisms: 0		Qual EPT: 20
11650	<i>Procloeon sp (w/ hindwing pads)</i>	+			
11651	<i>Procloeon sp (w/o hindwing pads)</i>	+			
12200	<i>Isonychia sp</i>	+			
13000	<i>Leucrocuta sp</i>	+			
13400	<i>Stenacron sp</i>	+			
13521	<i>Stenonema femoratum</i>	+			
13561	<i>Maccaffertium pulchellum</i>	+			
17200	<i>Caenis sp</i>	+			
21300	<i>Hetaerina sp</i>	+			
22001	<i>Coenagrionidae</i>	+			
22300	<i>Argia sp</i>	+			
23804	<i>Basiaeschna janata</i>	+			
34715	<i>Agneta flavescens</i>	+			
48410	<i>Corydalus cornutus</i>	+			
50315	<i>Chimarra obscura</i>	+			
51400	<i>Nyctiophylax sp</i>	+			
51600	<i>Polycentropus sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
52430	<i>Ceratopsyche morosa group</i>	+			
52540	<i>Hydropsyche dicantha</i>	+			
53800	<i>Hydroptila sp</i>	+			
58505	<i>Helicopsyche borealis</i>	+			
59310	<i>Mystacides sepulchralis</i>	+			
59970	<i>Petrophila sp</i>	+			
67800	<i>Tropisternus sp</i>	+			
68075	<i>Psephenus herricki</i>	+			
68130	<i>Helichus sp</i>	+			
68708	<i>Dubiraphia vittata group</i>	+			
69400	<i>Stenelmis sp</i>	+			
77750	<i>Hayesomyia senata or Thienemannimyia norena</i>	+			
81280	<i>Nanocladius (Plecopteracoluthus) downesi</i>	+			
82820	<i>Cryptochironomus sp</i>	+			
83040	<i>Dicrotendipes neomodestus</i>	+			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	+			
84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+			
85201	<i>Cladotanytarsus species group A</i>	+			
85720	<i>Stempellinella fimbriata</i>	+			
85821	<i>Tanytarsus glabrescens group sp 7</i>	+			
93900	<i>Elimia sp</i>	+			

Ohio EPA/DSW Ecological Assessment Section
 Macroinvertebrate Collection

Site: White Oak Creek

Collection Date: 08/22/2006 River Code: 10-400 RM: 16.50

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01320	<i>Hydra sp</i>	14		<i>Bode, 1980)</i>	
01801	<i>Turbellaria</i>	6	80370	<i>Corynoneura lobata</i>	146 +
03600	<i>Oligochaeta</i>	4 +	81231	<i>Nanocladius (N.) crassicornus or N. (N.) "rectinervis"</i>	7
04685	<i>Placobdella ornata</i>	+	82101	<i>Thienemanniella taurocapita</i>	2
06201	<i>Hyaella azteca</i>	+	82121	<i>Thienemanniella lobapodema</i>	20
08250	<i>Orconectes (Procericambarus) rusticus</i>	+	82130	<i>Thienemanniella similis</i>	4 +
11020	<i>Acerpenna pygmaea</i>	183 +	82820	<i>Cryptochironomus sp</i>	+
11119	<i>Plauditus dubius or P. virilis</i>	+	83040	<i>Dicrotendipes neomodestus</i>	54
11130	<i>Baetis intercalaris</i>	6 +	83840	<i>Microtendipes pedellus group</i>	+
11651	<i>Procloeon sp (w/o hindwing pads)</i>	10 +	84450	<i>Polypedilum (Uresipedilum) flavum</i>	207 +
12200	<i>Isonychia sp</i>	1 +	84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+
13000	<i>Leucrocuta sp</i>	46 +	84750	<i>Stictochironomus sp</i>	+
13400	<i>Stenacron sp</i>	12 +	84790	<i>Tribelos fuscicorne</i>	+
13521	<i>Stenonema femoratum</i>	+	85625	<i>Rheotanytarsus sp</i>	115 +
13561	<i>Maccaffertium pulchellum</i>	109 +	85821	<i>Tanytarsus glabrescens group sp 7</i>	130 +
16700	<i>Tricorythodes sp</i>	+	87540	<i>Hemerodromia sp</i>	2
17200	<i>Caenis sp</i>	+	93900	<i>Elimia sp</i>	6 +
22001	<i>Coenagrionidae</i>	+	97601	<i>Corbicula fluminea</i>	+
22300	<i>Argia sp</i>	+	98600	<i>Sphaerium sp</i>	+
23804	<i>Basiaeschna janata</i>	+			
34700	<i>Agetina capitata complex</i>	+			
48410	<i>Corydalus cornutus</i>	2 +	No. Quantitative Taxa: 32		Total Taxa: 62
50315	<i>Chimarra obscura</i>	+	No. Qualitative Taxa: 50		ICI: 38
51600	<i>Polycentropus sp</i>	+	Number of Organisms: 1260		Qual EPT: 20
52200	<i>Cheumatopsyche sp</i>	28 +			
52430	<i>Ceratopsyche morosa group</i>	+			
52540	<i>Hydropsyche dicantha</i>	+			
53800	<i>Hydroptila sp</i>	+			
58505	<i>Helicopsyche borealis</i>	+			
59001	<i>Leptoceridae</i>	+			
59970	<i>Petrophila sp</i>	1 +			
68075	<i>Psephenus herricki</i>	+			
68130	<i>Helichus sp</i>	+			
68201	<i>Scirtidae</i>	+			
68601	<i>Ancyronyx variegata</i>	+			
68901	<i>Macronychus glabratus</i>	1 +			
69400	<i>Stenelmis sp</i>	5 +			
77120	<i>Ablabesmyia mallochi</i>	8			
77500	<i>Conchapelopia sp</i>	8			
77750	<i>Hayesomyia senata or Thienemannimyia norena</i>	23			
78140	<i>Labrundinia pilosella</i>	53 +			
78350	<i>Meropelopia sp</i>	+			
78450	<i>Nilotanypus fimbriatus</i>	15			
80360	<i>Corynoneura "celeripes" (sensu Simpson &</i>	32			

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: White Oak Creek
from Miller Ring Rd.

Collection Date: 08/23/2006 River Code: 10-400 RM: 12.40

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01320	<i>Hydra sp</i>	4	69400	<i>Stenelmis sp</i>	5 +
01801	<i>Turbellaria</i>	145 +	71100	<i>Hexatoma sp</i>	+
03040	<i>Fredericella sp</i>	+	74100	<i>Simulium sp</i>	+
03600	<i>Oligochaeta</i>	+	77750	<i>Hayesomyia senata or Thienemannimyia norena</i>	4 +
08250	<i>Orconectes (Procericambarus) rusticus</i>	+	77800	<i>Helopelopia sp</i>	+
08601	<i>Hydrachnidia</i>	4	78140	<i>Labrundinia pilosella</i>	2
11014	<i>Acentrella turbida</i>	+	78401	<i>Natarsia species A (sensu Roback, 1978)</i>	+
11020	<i>Acerpenna pygmaea</i>	254 +	78450	<i>Nilotanypus fimbriatus</i>	4
11119	<i>Plauditus dubius or P. virilis</i>	8 +	78750	<i>Rheopelopia paramaculipennis</i>	16
11130	<i>Baetis intercalaris</i>	34 +	80360	<i>Corynoneura "celeripes" (sensu Simpson & Bode, 1980)</i>	4
11200	<i>Callibaetis sp</i>	+	80370	<i>Corynoneura lobata</i>	12
11600	<i>Paracloeodes fleeki</i>	+	80410	<i>Cricotopus (C.) sp</i>	4
11650	<i>Procloeon sp (w/ hindwing pads)</i>	13 +	81280	<i>Nanocladius (Plecopteracoluthus) downesi</i>	8 +
11651	<i>Procloeon sp (w/o hindwing pads)</i>	+	82101	<i>Thienemanniella taurocapita</i>	36 +
11670	<i>Procloeon viridoculare</i>	+	82121	<i>Thienemanniella lobapodema</i>	4
12200	<i>Isonychia sp</i>	78 +	82130	<i>Thienemanniella similis</i>	44
13000	<i>Leucrocota sp</i>	105 +	82820	<i>Cryptochironomus sp</i>	+
13400	<i>Stenacron sp</i>	77 +	83040	<i>Dicrotendipes neomodestus</i>	8 +
13521	<i>Stenonema femoratum</i>	+	83820	<i>Microtendipes "caelum" (sensu Simpson & Bode, 1980)</i>	+
13561	<i>Maccaffertium pulchellum</i>	278 +	83840	<i>Microtendipes pedellus group</i>	4
16700	<i>Tricorythodes sp</i>	21 +	84450	<i>Polypedilum (Uresipedilum) flavum</i>	227 +
22001	<i>Coenagrionidae</i>	+	84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+
22300	<i>Argia sp</i>	4 +	84700	<i>Stenochironomus sp</i>	+
23804	<i>Basiaeschna janata</i>	+	84750	<i>Stictochironomus sp</i>	+
34715	<i>Agnatina flavescens</i>	19 +	85625	<i>Rheotanytarsus sp</i>	62 +
45400	<i>Trichocorixa sp</i>	+	85800	<i>Tanytarsus sp</i>	+
47600	<i>Sialis sp</i>	+	85821	<i>Tanytarsus glabrescens group sp 7</i>	+
48410	<i>Corydalus cornutus</i>	2 +	85840	<i>Tanytarsus sepp</i>	+
50315	<i>Chimarra obscura</i>	46 +	86200	<i>Tabanus sp</i>	+
51400	<i>Nyctiophylax sp</i>	+	93900	<i>Elimia sp</i>	+
51600	<i>Polycentropus sp</i>	+	95100	<i>Physella sp</i>	+
52200	<i>Cheumatopsyche sp</i>	87 +	97601	<i>Corbicula fluminea</i>	+
52430	<i>Ceratopsyche morosa group</i>	21 +	98600	<i>Sphaerium sp</i>	+
52540	<i>Hydropsyche dicantha</i>	+			
53400	<i>Protoptila sp</i>	+			
53800	<i>Hydroptila sp</i>	8 +			
58505	<i>Helicopsyche borealis</i>	+			
59970	<i>Petrophila sp</i>	+			
65800	<i>Berosus sp</i>	+			
67800	<i>Tropisternus sp</i>	+			
68075	<i>Psephenus herricki</i>	+			
68130	<i>Helichus sp</i>	1 +			
68601	<i>Ancyronyx variegata</i>	1			
68901	<i>Macronychus glabratus</i>	3 +			

No. Quantitative Taxa: 38 Total Taxa: 77
 No. Qualitative Taxa: 65 ICI: 46
 Number of Organisms: 1657 Qual EPT: 25

Ohio EPA/DSW Ecological Assessment Section
 Macroinvertebrate Collection

Site: White Oak Creek

Collection Date: 08/29/2006 River Code: 10-400 RM: 7.60

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+	85625	<i>Rheotanytarsus sp</i>	+
03600	<i>Oligochaeta</i>	+	85821	<i>Tanytarsus glabrescens group sp 7</i>	+
04685	<i>Placobdella ornata</i>	+	93900	<i>Elimia sp</i>	+
08250	<i>Orconectes (Procericambarus) rusticus</i>	+	97601	<i>Corbicula fluminea</i>	+
11119	<i>Plauditus dubius or P. virilis</i>	+			
11130	<i>Baetis intercalaris</i>	+	No. Quantitative Taxa: 0		Total Taxa: 48
11650	<i>Procloeon sp (w/ hindwing pads)</i>	+	No. Qualitative Taxa: 48		ICI:
11651	<i>Procloeon sp (w/o hindwing pads)</i>	+	Number of Organisms: 0		Qual EPT: 23
11670	<i>Procloeon viridoculare</i>	+			
12200	<i>Isonychia sp</i>	+			
13000	<i>Leucrocuta sp</i>	+			
13400	<i>Stenacron sp</i>	+			
13521	<i>Stenonema femoratum</i>	+			
13561	<i>Maccaffertium pulchellum</i>	+			
16700	<i>Tricorythodes sp</i>	+			
17200	<i>Caenis sp</i>	+			
18750	<i>Hexagenia limbata</i>	+			
22300	<i>Argia sp</i>	+			
34300	<i>Neoperla clymene complex</i>	+			
34715	<i>Agnatina flavescens</i>	+			
48410	<i>Corydalus cornutus</i>	+			
50315	<i>Chimarra obscura</i>	+			
51600	<i>Polycentropus sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
52430	<i>Ceratopsyche morosa group</i>	+			
52540	<i>Hydropsyche dicantha</i>	+			
53800	<i>Hydroptila sp</i>	+			
58505	<i>Helicopsyche borealis</i>	+			
59300	<i>Mystacides sp</i>	+			
59970	<i>Petrophila sp</i>	+			
60900	<i>Peltodytes sp</i>	+			
65800	<i>Berosus sp</i>	+			
68075	<i>Psephenus herricki</i>	+			
68130	<i>Helichus sp</i>	+			
69400	<i>Stenelmis sp</i>	+			
69713	<i>Lutrochus laticeps</i>	+			
78655	<i>Procladius (Holotanypus) sp</i>	+			
80310	<i>Cardiocladius obscurus</i>	+			
82100	<i>Thienemanniella sp</i>	+			
82730	<i>Chironomus (C.) decorus group</i>	+			
83040	<i>Dicrotendipes neomodestus</i>	+			
84300	<i>Phaenopsectra obediens group</i>	+			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	+			
84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+			

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: White Oak Creek
upst. St. Rt. 221

Collection Date: 08/23/2006 River Code: 10-400 RM: 6.70

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01320	<i>Hydra sp</i>	9	84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+
01801	<i>Turbellaria</i>	+	85625	<i>Rheotanytarsus sp</i>	992 +
03600	<i>Oligochaeta</i>	+	85800	<i>Tanytarsus sp</i>	+
06700	<i>Crangonyx sp</i>	+	85821	<i>Tanytarsus glabrescens group sp 7</i>	33
11014	<i>Acentrella turbida</i>	+	86200	<i>Tabanus sp</i>	+
11020	<i>Acerpenna pygmaea</i>	32 +	87540	<i>Hemerodromia sp</i>	25
11119	<i>Plauditus dubius or P. virilis</i>	44 +	93900	<i>Elimia sp</i>	+
11120	<i>Baetis flavistriga</i>	26	95100	<i>Physella sp</i>	+
11130	<i>Baetis intercalaris</i>	91 +	96900	<i>Ferrissia sp</i>	+
11200	<i>Callibaetis sp</i>	+			
11250	<i>Centroptilum sp (w/o hindwing pads)</i>	+	No. Quantitative Taxa: 26		Total Taxa: 53
11650	<i>Procloeon sp (w/ hindwing pads)</i>	+	No. Qualitative Taxa: 44		ICI: 44
11651	<i>Procloeon sp (w/o hindwing pads)</i>	+	Number of Organisms: 2266		Qual EPT: 25
12200	<i>Isonychia sp</i>	65 +			
13000	<i>Leucrocuta sp</i>	70 +			
13400	<i>Stenacron sp</i>	+			
13521	<i>Stenonema femoratum</i>	+			
13561	<i>Maccaffertium pulchellum</i>	276 +			
16700	<i>Tricorythodes sp</i>	8 +			
17200	<i>Caenis sp</i>	+			
22300	<i>Argia sp</i>	+			
34300	<i>Neoperla clymene complex</i>	+			
34700	<i>Agnatina capitata complex</i>	27 +			
48410	<i>Corydalus cornutus</i>	5			
50315	<i>Chimarra obscura</i>	15 +			
51400	<i>Nyctiophylax sp</i>	+			
51600	<i>Polycentropus sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	88 +			
52430	<i>Ceratopsyche morosa group</i>	145 +			
52540	<i>Hydropsyche dicantha</i>	+			
53800	<i>Hydroptila sp</i>	+			
58505	<i>Helicopsyche borealis</i>	+			
59970	<i>Petrophila sp</i>	1 +			
68075	<i>Psephenus herricki</i>	1 +			
68130	<i>Helichus sp</i>	2			
68901	<i>Macronychus glabratus</i>	4			
69400	<i>Stenelmis sp</i>	3 +			
77115	<i>Ablabesmyia janta</i>	+			
80310	<i>Cardiocladius obscurus</i>	+			
80350	<i>Corynoneura sp</i>	8			
82141	<i>Thienemanniella xena</i>	64			
82820	<i>Cryptochironomus sp</i>	+			
83040	<i>Dicrotendipes neomodestus</i>	17 +			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	215 +			

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: White Oak Creek
adj. St. Rt. 221

Collection Date: 08/23/2006 River Code: 10-400 RM: 2.70

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	46 +	69400	<i>Stenelmis sp</i>	5 +
03040	<i>Fredericella sp</i>	+	74501	<i>Ceratopogonidae</i>	+
03360	<i>Plumatella sp</i>	1	77120	<i>Ablabesmyia mallochi</i>	+
03600	<i>Oligochaeta</i>	+	77130	<i>Ablabesmyia rhamphe group</i>	5
04666	<i>Helobdella triserialis</i>	+	77750	<i>Hayesomyia senata or Thienemannimyia norena</i>	14 +
05900	<i>Lirceus sp</i>	+	77800	<i>Helopelopia sp</i>	5
06201	<i>Hyaella azteca</i>	+	80370	<i>Corynoneura lobata</i>	88
08250	<i>Orconectes (Procericambarus) rusticus</i>	+	80410	<i>Cricotopus (C.) sp</i>	5
08451	<i>Palaemonetes kadiakensis</i>	+	81231	<i>Nanocladius (N.) crassicornus or N. (N.) "rectinervis"</i>	9
08601	<i>Hydrachnidia</i>	+	82101	<i>Thienemanniella taurocapita</i>	72
11020	<i>Acerpenna pygmaea</i>	187 +	82121	<i>Thienemanniella lobapodema</i>	2
11119	<i>Plauditus dubius or P. virilis</i>	12 +	82141	<i>Thienemanniella xena</i>	8
11130	<i>Baetis intercalaris</i>	92 +	82820	<i>Cryptochironomus sp</i>	+
11200	<i>Callibaetis sp</i>	+	83040	<i>Dicrotendipes neomodestus</i>	5
11650	<i>Procloeon sp (w/ hindwing pads)</i>	1 +	83840	<i>Microtendipes pedellus group</i>	9
12200	<i>Isonychia sp</i>	16 +	84201	<i>Paratendipes sp 1</i>	+
13000	<i>Leucrocota sp</i>	81 +	84450	<i>Polypedilum (Uresipedilum) flavum</i>	138 +
13400	<i>Stenacron sp</i>	75 +	84470	<i>Polypedilum (P.) illinoense</i>	5
13521	<i>Stenonema femoratum</i>	2	84540	<i>Polypedilum (Tripodura) scalaenum group</i>	9
13561	<i>Maccaffertium pulchellum</i>	571 +	84790	<i>Tribelos fuscicorne</i>	+
16700	<i>Tricorythodes sp</i>	1 +	85615	<i>Rheotanytarsus pellucidus</i>	5
17200	<i>Caenis sp</i>	+	85625	<i>Rheotanytarsus sp</i>	65 +
21300	<i>Hetaerina sp</i>	+	85720	<i>Stempellinella fimbriata</i>	8 +
22001	<i>Coenagrionidae</i>	+	85800	<i>Tanytarsus sp</i>	+
22300	<i>Argia sp</i>	22 +	85821	<i>Tanytarsus glabrescens group sp 7</i>	14
34300	<i>Neoperla clymene complex</i>	2	85840	<i>Tanytarsus sepp</i>	+
34715	<i>Agnatina flavescens</i>	11 +	93900	<i>Elimia sp</i>	19 +
45400	<i>Trichocorixa sp</i>	+	96900	<i>Ferrissia sp</i>	+
48410	<i>Corydalus cornutus</i>	1	97601	<i>Corbicula fluminea</i>	8 +
50315	<i>Chimarra obscura</i>	12 +	98600	<i>Sphaerium sp</i>	+
51400	<i>Nyctiophylax sp</i>	+			
51600	<i>Polycentropus sp</i>	1 +			
52200	<i>Cheumatopsyche sp</i>	59 +			
52430	<i>Ceratopsyche morosa group</i>	44 +	No. Quantitative Taxa: 44	Total Taxa: 74	
52540	<i>Hydropsyche dicantha</i>	+	No. Qualitative Taxa: 56	ICI: 50	
53400	<i>Protophila sp</i>	+	Number of Organisms: 1746	Qual EPT: 21	
53800	<i>Hydroptila sp</i>	2 +			
58505	<i>Helicopsyche borealis</i>	+			
59970	<i>Petrophila sp</i>	8 +			
60900	<i>Peltodytes sp</i>	+			
65800	<i>Berosus sp</i>	+			
68075	<i>Psephenus herricki</i>	+			
68130	<i>Helichus sp</i>	+			
68901	<i>Macronychus glabratus</i>	1 +			

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Town Run
upst. Georgetown WWTP

Collection Date: 08/16/2006 River Code: 10-407 RM: 0.90

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+			
03600	<i>Oligochaeta</i>	+			
05900	<i>Lirceus sp</i>	+			
07820	<i>Cambarus (Cambarus) sp A</i>	+			
11120	<i>Baetis flavistriga</i>	+			
11250	<i>Centroptilum sp (w/o hindwing pads)</i>	+			
11430	<i>Dipheter hageni</i>	+			
13521	<i>Stenonema femoratum</i>	+			
23600	<i>Aeshna sp</i>	+			
27500	<i>Somatochlora sp</i>	+			
50315	<i>Chimarra obscura</i>	+			
51400	<i>Nyctiophylax sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
52530	<i>Hydropsyche depravata group</i>	+			
57400	<i>Neophylax sp</i>	+			
68025	<i>Ectopria sp</i>	+			
69400	<i>Stenelmis sp</i>	+			
74100	<i>Simulium sp</i>	+			
79210	<i>Thienemannimyia norena</i>	+			
80420	<i>Cricotopus (C.) bicinctus</i>	+			
80740	<i>Eukiefferiella claripennis group</i>	+			
82820	<i>Cryptochironomus sp</i>	+			
83840	<i>Microtendipes pedellus group</i>	+			
84210	<i>Paratendipes albimanus or P. duplicatus</i>	+			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	+			
84750	<i>Stictochironomus sp</i>	+			
85500	<i>Paratanytarsus sp</i>	+			
85800	<i>Tanytarsus sp</i>	+			
95100	<i>Physella sp</i>	+			

No. Quantitative Taxa: 0 Total Taxa: 29
 No. Qualitative Taxa: 29 ICI:
 Number of Organisms: 0 Qual EPT: 9

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Walnut Creek

Collection Date: 08/16/2006 River Code: 10-408 RM: 0.60

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+			
03600	<i>Oligochaeta</i>	+			
05900	<i>Lirceus sp</i>	+			
06904	<i>Synurella dentata</i>	+			
11250	<i>Centroptilum sp (w/o hindwing pads)</i>	+			
13521	<i>Stenonema femoratum</i>	+			
14950	<i>Leptophlebia sp or Paraleptophlebia sp</i>	+			
45300	<i>Sigara sp</i>	+			
51600	<i>Polycentropus sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
52315	<i>Diplectrona modesta</i>	+			
52530	<i>Hydropsyche depravata group</i>	+			
57400	<i>Neophylax sp</i>	+			
63300	<i>Hydroporus sp</i>	+			
68025	<i>Ectopria sp</i>	+			
68075	<i>Psephenus herricki</i>	+			
69400	<i>Stenelmis sp</i>	+			
71800	<i>Pseudolimnophila sp</i>	+			
77120	<i>Ablabesmyia mallochii</i>	+			
77800	<i>Helopelopia sp</i>	+			
78450	<i>Nilotanytus fimbriatus</i>	+			
79400	<i>Zavreliomyia sp</i>	+			
80370	<i>Corynoneura lobata</i>	+			
83840	<i>Microtendipes pedellus group</i>	+			
84210	<i>Paratendipes albimanus or P. duplicatus</i>	+			
84460	<i>Polypedilum (P.) fallax group</i>	+			
84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+			
84700	<i>Stenochironomus sp</i>	+			
85501	<i>Paratanytarsus n.sp 1</i>	+			
85625	<i>Rheotanytarsus sp</i>	+			
85800	<i>Tanytarsus sp</i>	+			
85802	<i>Tanytarsus curticornis</i>	+			
95100	<i>Physella sp</i>	+			

No. Quantitative Taxa: 0 Total Taxa: 33
 No. Qualitative Taxa: 33 ICI:
 Number of Organisms: 0 Qual EPT: 8

Ohio EPA/DSW Ecological Assessment Section
 Macroinvertebrate Collection

Site: Miranda Run
 Smoky Row Rd.

Collection Date: 08/16/2006 River Code: 10-411 RM: 0.70

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+			
05900	<i>Lirceus sp</i>	+	No. Quantitative Taxa: 0		Total Taxa: 44
08250	<i>Orconectes (Procericambarus) rusticus</i>	+	No. Qualitative Taxa: 44		ICI:
08601	<i>Hydrachnidia</i>	+	Number of Organisms: 0		Qual EPT: 16
11120	<i>Baetis flavistriga</i>	+			
11130	<i>Baetis intercalaris</i>	+			
11250	<i>Centroptilum sp (w/o hindwing pads)</i>	+			
11650	<i>Procloeon sp (w/ hindwing pads)</i>	+			
11670	<i>Procloeon viridoculare</i>	+			
12200	<i>Isonychia sp</i>	+			
13400	<i>Stenacron sp</i>	+			
13521	<i>Stenonema femoratum</i>	+			
17200	<i>Caenis sp</i>	+			
21200	<i>Calopteryx sp</i>	+			
22001	<i>Coenagrionidae</i>	+			
22300	<i>Argia sp</i>	+			
23909	<i>Boyeria vinosa</i>	+			
50315	<i>Chimarra obscura</i>	+			
51600	<i>Polycentropus sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
52530	<i>Hydropsyche depravata group</i>	+			
57400	<i>Neophylax sp</i>	+			
58505	<i>Helicopsyche borealis</i>	+			
59570	<i>Oecetis nocturna</i>	+			
60900	<i>Peltodytes sp</i>	+			
63300	<i>Hydroporus sp</i>	+			
63900	<i>Laccophilus sp</i>	+			
65800	<i>Berosus sp</i>	+			
68075	<i>Psephenus herricki</i>	+			
69400	<i>Stenelmis sp</i>	+			
71100	<i>Hexatoma sp</i>	+			
77800	<i>Helopelopia sp</i>	+			
81825	<i>Rheocricotopus (Psilocricotopus) robacki</i>	+			
82820	<i>Cryptochironomus sp</i>	+			
83900	<i>Nilothauma sp</i>	+			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	+			
84460	<i>Polypedilum (P.) fallax group</i>	+			
84470	<i>Polypedilum (P.) illinoense</i>	+			
85625	<i>Rheotanytarsus sp</i>	+			
85800	<i>Tanytarsus sp</i>	+			
86100	<i>Chrysops sp</i>	+			
87540	<i>Hemerodromia sp</i>	+			
95100	<i>Physella sp</i>	+			
96900	<i>Ferrissia sp</i>	+			

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Sterling Run

Collection Date: 07/18/2006 River Code: 10-413 RM: 11.40

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
03600	<i>Oligochaeta</i>	+			
04964	<i>Mooreobdella microstoma</i>	+			
05900	<i>Lirceus sp</i>	+			
06904	<i>Synurella dentata</i>	+			
07880	<i>Cambarus (Tubericambarus) thomai</i>	+			
13521	<i>Stenonema femoratum</i>	+			
27500	<i>Somatochlora sp</i>	+			
45300	<i>Sigara sp</i>	+			
60900	<i>Peltodytes sp</i>	+			
67700	<i>Paracymus sp</i>	+			
68201	<i>Scirtidae</i>	+			
71900	<i>Tipula sp</i>	+			
77120	<i>Ablabesmyia mallochi</i>	+			
78655	<i>Procladius (Holotanypus) sp</i>	+			
83051	<i>Dicrotendipes simpsoni</i>	+			
83300	<i>Glyptotendipes (G.) sp</i>	+			
83840	<i>Microtendipes pedellus group</i>	+			
84210	<i>Paratendipes albimanus or P. duplicatus</i>	+			
84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+			
84750	<i>Stictochironomus sp</i>	+			
85500	<i>Paratanytarsus sp</i>	+			
95100	<i>Physella sp</i>	+			
96264	<i>Planorbella (Pierosoma) pilsbryi</i>	+			
98600	<i>Sphaerium sp</i>	+			

No. Quantitative Taxa: 0	Total Taxa: 24
No. Qualitative Taxa: 24	ICI:
Number of Organisms: 0	Qual EPT: 1

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Sterling Run

Collection Date: 07/18/2006 River Code: 10-413 RM: 9.70

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
03600	<i>Oligochaeta</i>	+			
04964	<i>Mooreobdella microstoma</i>	+			
05900	<i>Lirceus sp</i>	+			
06904	<i>Synurella dentata</i>	+			
13521	<i>Stenonema femoratum</i>	+			
45300	<i>Sigara sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
60900	<i>Peltodytes sp</i>	+			
63300	<i>Hydroporus sp</i>	+			
68201	<i>Scirtidae</i>	+			
69400	<i>Stenelmis sp</i>	+			
71300	<i>Limonia sp</i>	+			
72700	<i>Anopheles sp</i>	+			
74673	<i>Atrichopogon websteri</i>	+			
77120	<i>Ablabesmyia mallochii</i>	+			
77500	<i>Conchapelopia sp</i>	+			
84210	<i>Paratendipes albimanus</i> or <i>P. duplicatus</i>	+			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	+			
84475	<i>Polypedilum (P.) ophioides</i>	+			
84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+			
84750	<i>Stictochironomus sp</i>	+			
85625	<i>Rheotanytarsus sp</i>	+			
94400	<i>Fossaria sp</i>	+			
95100	<i>Physella sp</i>	+			
96002	<i>Helisoma anceps anceps</i>	+			
96264	<i>Planorbella (Pierosoma) pilsbryi</i>	+			
98200	<i>Pisidium sp</i>	+			
98600	<i>Sphaerium sp</i>	+			

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

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Sterling Run
U.S. Rt. 68

Collection Date: 07/18/2006 River Code: 10-413 RM: 6.80

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+			
03040	<i>Fredericella sp</i>	+			
03600	<i>Oligochaeta</i>	+			
08250	<i>Orconectes (Procericambarus) rusticus</i>	+			
11020	<i>Acerpenna pygmaea</i>	+			
11120	<i>Baetis flavistriga</i>	+			
11130	<i>Baetis intercalaris</i>	+			
13521	<i>Stenonema femoratum</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
60900	<i>Peltodytes sp</i>	+			
68201	<i>Scirtidae</i>	+			
68707	<i>Dubiraphia quadrinotata</i>	+			
69400	<i>Stenelmis sp</i>	+			
72700	<i>Anopheles sp</i>	+			
77120	<i>Ablabesmyia mallochii</i>	+			
77500	<i>Conchapelopia sp</i>	+			
78655	<i>Procladius (Holotanypus) sp</i>	+			
82711	<i>Chironomus (C.) sp 1</i>	+			
82820	<i>Cryptochironomus sp</i>	+			
84210	<i>Paratendipes albimanus or P. duplicatus</i>	+			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	+			
84470	<i>Polypedilum (P.) illinoense</i>	+			
84750	<i>Stictochironomus sp</i>	+			
85821	<i>Tanytarsus glabrescens group sp 7</i>	+			
95100	<i>Physella sp</i>	+			
96002	<i>Helisoma anceps anceps</i>	+			
96900	<i>Ferrissia sp</i>	+			
98200	<i>Pisidium sp</i>	+			
98600	<i>Sphaerium sp</i>	+			

No. Quantitative Taxa: 0	Total Taxa: 29
No. Qualitative Taxa: 29	ICI:
Number of Organisms: 0	Qual EPT: 5

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Sterling Run

Collection Date: 08/15/2006 River Code: 10-413 RM: 3.00

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+			
03600	<i>Oligochaeta</i>	+			
04664	<i>Helobdella stagnalis</i>	+			
04935	<i>Erpobdella punctata punctata</i>	+			
05900	<i>Lirceus sp</i>	+			
06201	<i>Hyalella azteca</i>	+			
08250	<i>Orconectes (Procericambarus) rusticus</i>	+			
08601	<i>Hydrachnidia</i>	+			
11200	<i>Callibaetis sp</i>	+			
13400	<i>Stenacron sp</i>	+			
17200	<i>Caenis sp</i>	+			
22001	<i>Coenagrionidae</i>	+			
23804	<i>Basiaeschna janata</i>	+			
28705	<i>Pachydiplax longipennis</i>	+			
45300	<i>Sigara sp</i>	+			
60900	<i>Peltodytes sp</i>	+			
63300	<i>Hydroporus sp</i>	+			
63900	<i>Laccophilus sp</i>	+			
65800	<i>Berosus sp</i>	+			
66500	<i>Enochrus sp</i>	+			
67800	<i>Tropisternus sp</i>	+			
72700	<i>Anopheles sp</i>	+			
74501	<i>Ceratopogonidae</i>	+			
77100	<i>Ablabesmyia sp</i>	+			
77355	<i>Clinotanypus pinguis</i>	+			
83300	<i>Glyptotendipes (G.) sp</i>	+			
84210	<i>Paratendipes albimanus or P. duplicatus</i>	+			

No. Quantitative Taxa: 0	Total Taxa: 27
No. Qualitative Taxa: 27	ICI:
Number of Organisms: 0	Qual EPT: 3

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Sterling Run
Sterling Rd. (near mouth)

Collection Date: 08/22/2006 River Code: 10-413 RM: 0.40

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+	98600	<i>Sphaerium sp</i>	+
03600	<i>Oligochaeta</i>	+			
05900	<i>Lirceus sp</i>	+	No. Quantitative Taxa: 0		Total Taxa: 45
06201	<i>Hyalella azteca</i>	+	No. Qualitative Taxa: 45		ICI:
08250	<i>Orconectes (Procericambarus) rusticus</i>	+	Number of Organisms: 0		Qual EPT: 17
11020	<i>Acerpenna pygmaea</i>	+			
11120	<i>Baetis flavistriga</i>	+			
11130	<i>Baetis intercalaris</i>	+			
11650	<i>Procloeon sp (w/ hindwing pads)</i>	+			
11651	<i>Procloeon sp (w/o hindwing pads)</i>	+			
12200	<i>Isonychia sp</i>	+			
13000	<i>Leucrocuta sp</i>	+			
13400	<i>Stenacron sp</i>	+			
13521	<i>Stenonema femoratum</i>	+			
13561	<i>Maccaffertium pulchellum</i>	+			
17200	<i>Caenis sp</i>	+			
21200	<i>Calopteryx sp</i>	+			
22001	<i>Coenagrionidae</i>	+			
22300	<i>Argia sp</i>	+			
47600	<i>Sialis sp</i>	+			
50315	<i>Chimarra obscura</i>	+			
51600	<i>Polycentropus sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
52430	<i>Ceratopsyche morosa group</i>	+			
52530	<i>Hydropsyche depravata group</i>	+			
59700	<i>Triaenodes sp</i>	+			
59970	<i>Petrophila sp</i>	+			
68075	<i>Psephenus herricki</i>	+			
69400	<i>Stenelmis sp</i>	+			
77120	<i>Ablabesmyia mallochi</i>	+			
77474	<i>Coelotanypus concinnus</i>	+			
77800	<i>Helopelopia sp</i>	+			
82820	<i>Cryptochironomus sp</i>	+			
83040	<i>Dicrotendipes neomodestus</i>	+			
83300	<i>Glyptotendipes (G.) sp</i>	+			
83840	<i>Microtendipes pedellus group</i>	+			
84460	<i>Polypedilum (P.) fallax group</i>	+			
84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+			
84700	<i>Stenochironomus sp</i>	+			
84750	<i>Stictochironomus sp</i>	+			
85720	<i>Stempellinella fimbriata</i>	+			
93900	<i>Elimia sp</i>	+			
96900	<i>Ferrissia sp</i>	+			
97601	<i>Corbicula fluminea</i>	+			

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Snapping Turtle Run

Collection Date: 08/15/2006 River Code: 10-414 RM: 0.50

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+			
06904	<i>Synurella dentata</i>	+			
08250	<i>Orconectes (Procericambarus) rusticus</i>	+			
08601	<i>Hydrachnidia</i>	+			
13400	<i>Stenacron sp</i>	+			
13521	<i>Stenonema femoratum</i>	+			
17200	<i>Caenis sp</i>	+			
21200	<i>Calopteryx sp</i>	+			
22001	<i>Coenagrionidae</i>	+			
22300	<i>Argia sp</i>	+			
23600	<i>Aeshna sp</i>	+			
47600	<i>Sialis sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
60900	<i>Peltodytes sp</i>	+			
68707	<i>Dubiraphia quadrinotata</i>	+			
69400	<i>Stenelmis sp</i>	+			
72700	<i>Anopheles sp</i>	+			
77800	<i>Helopelopia sp</i>	+			
78350	<i>Meropelopia sp</i>	+			
78655	<i>Procladius (Holotanypus) sp</i>	+			
82730	<i>Chironomus (C.) decorus group</i>	+			
82820	<i>Cryptochironomus sp</i>	+			
83000	<i>Dicrotendipes sp</i>	+			
84210	<i>Paratendipes albimanus or P. duplicatus</i>	+			
84315	<i>Phaenopsectra flavipes</i>	+			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	+			
84700	<i>Stenochironomus sp</i>	+			
84750	<i>Stictochironomus sp</i>	+			
84800	<i>Tribelos jucundum</i>	+			
85500	<i>Paratanytarsus sp</i>	+			
85821	<i>Tanytarsus glabrescens group sp 7</i>	+			
96002	<i>Helisoma anceps anceps</i>	+			
98600	<i>Sphaerium sp</i>	+			

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: Trib. to Sterling Run (RM 6.68)

Collection Date: 07/18/2006 River Code: 10-418 RM: 2.40

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
03600	<i>Oligochaeta</i>	+			
04666	<i>Helobdella triserialis</i>	+			
04686	<i>Placobdella papillifera</i>	+			
04935	<i>Erpobdella punctata punctata</i>	+			
05900	<i>Lirceus sp</i>	+			
06904	<i>Synurella dentata</i>	+			
07880	<i>Cambarus (Tubericambarus) thomai</i>	+			
22001	<i>Coenagrionidae</i>	+			
27500	<i>Somatochlora sp</i>	+			
43205	<i>Nepa apiculata</i>	+			
44501	<i>Corixidae</i>	+			
61400	<i>Agabus sp</i>	+			
68201	<i>Scirtidae</i>	+			
72700	<i>Anopheles sp</i>	+			
78401	<i>Natarsia species A (sensu Roback, 1978)</i>	+			
82730	<i>Chironomus (C.) decorus group</i>	+			
83051	<i>Dicrotendipes simpsoni</i>	+			
83840	<i>Microtendipes pedellus group</i>	+			
84210	<i>Paratendipes albimanus or P. duplicatus</i>	+			
84750	<i>Stictochironomus sp</i>	+			
85500	<i>Paratanytarsus sp</i>	+			
85800	<i>Tanytarsus sp</i>	+			
89001	<i>Sciomyzidae</i>	+			
95100	<i>Physella sp</i>	+			
96264	<i>Planorbella (Pierosoma) pilsbryi</i>	+			
96900	<i>Ferrissia sp</i>	+			
98600	<i>Sphaerium sp</i>	+			

No. Quantitative Taxa: 0	Total Taxa: 27
No. Qualitative Taxa: 27	ICI:
Number of Organisms: 0	Qual EPT: 0

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Trib. to Sterling Run (RM 6.68)

Collection Date: 07/18/2006 River Code: 10-418 RM: 0.80

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
03360	<i>Plumatella sp</i>	+			
03600	<i>Oligochaeta</i>	+			
04666	<i>Helobdella triserialis</i>	+			
04935	<i>Erpobdella punctata punctata</i>	+			
05900	<i>Lirceus sp</i>	+			
06904	<i>Synurella dentata</i>	+			
08250	<i>Orconectes (Procericambarus) rusticus</i>	+			
13521	<i>Stenonema femoratum</i>	+			
22001	<i>Coenagrionidae</i>	+			
45300	<i>Sigara sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
68201	<i>Scirtidae</i>	+			
69400	<i>Stenelmis sp</i>	+			
80351	<i>Corynoneura n.sp 1</i>	+			
82730	<i>Chironomus (C.) decorus group</i>	+			
83051	<i>Dicrotendipes simpsoni</i>	+			
83840	<i>Microtendipes pedellus group</i>	+			
84210	<i>Paratendipes albimanus or P. duplicatus</i>	+			
84315	<i>Phaenopsectra flavipes</i>	+			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	+			
84470	<i>Polypedilum (P.) illinoense</i>	+			
84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+			
84750	<i>Stictochironomus sp</i>	+			
85500	<i>Paratanytarsus sp</i>	+			
85625	<i>Rheotanytarsus sp</i>	+			
95100	<i>Physella sp</i>	+			
96264	<i>Planorbella (Pierosoma) pilsbryi</i>	+			
96900	<i>Ferrissia sp</i>	+			
98600	<i>Sphaerium sp</i>	+			

No. Quantitative Taxa: 0 Total Taxa: 29

No. Qualitative Taxa: 29 ICI:

Number of Organisms: 0 Qual EPT: 2

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: East Fork White Oak Creek

Collection Date: 07/31/2006 River Code: 10-420 RM: 18.60

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
03040	<i>Fredericella sp</i>	+	85500	<i>Paratanytarsus sp</i>	+
03600	<i>Oligochaeta</i>	+	85625	<i>Rheotanytarsus sp</i>	+
04666	<i>Helobdella triserialis</i>	+	85802	<i>Tanytarsus curticornis</i>	+
05800	<i>Caecidotea sp</i>	+	85821	<i>Tanytarsus glabrescens group sp 7</i>	+
08250	<i>Orconectes (Procericambarus) rusticus</i>	+	86100	<i>Chrysops sp</i>	+
11130	<i>Baetis intercalaris</i>	+	93900	<i>Elimia sp</i>	+
11250	<i>Centroptilum sp (w/o hindwing pads)</i>	+	94400	<i>Fossaria sp</i>	+
13400	<i>Stenacron sp</i>	+	96900	<i>Ferrissia sp</i>	+
13521	<i>Stenonema femoratum</i>	+			
17200	<i>Caenis sp</i>	+	No. Quantitative Taxa: 0		Total Taxa: 52
21200	<i>Calopteryx sp</i>	+	No. Qualitative Taxa: 52		ICI:
22300	<i>Argia sp</i>	+	Number of Organisms: 0		Qual EPT: 13
23804	<i>Basiaeschna janata</i>	+			
24900	<i>Gomphus sp</i>	+			
47600	<i>Sialis sp</i>	+			
50804	<i>Lype diversa</i>	+			
51400	<i>Nyctiophylax sp</i>	+			
51600	<i>Polycentropus sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
57900	<i>Pycnopsyche sp</i>	+			
58505	<i>Helicopsyche borealis</i>	+			
59310	<i>Mystacides sepulchralis</i>	+			
59580	<i>Oecetis persimilis</i>	+			
68130	<i>Helichus sp</i>	+			
68707	<i>Dubiraphia quadrinotata</i>	+			
68708	<i>Dubiraphia vittata group</i>	+			
68901	<i>Macronychus glabratus</i>	+			
69400	<i>Stenelmis sp</i>	+			
71900	<i>Tipula sp</i>	+			
72340	<i>Dixella sp</i>	+			
77120	<i>Ablabesmyia mallochi</i>	+			
77500	<i>Conchapelopia sp</i>	+			
77800	<i>Helopelopia sp</i>	+			
78655	<i>Procladius (Holotanypus) sp</i>	+			
80204	<i>Brillia flavifrons group</i>	+			
82300	<i>Xylotopus par</i>	+			
82730	<i>Chironomus (C.) decorus group</i>	+			
82820	<i>Cryptochironomus sp</i>	+			
82885	<i>Cryptotendipes pseudotener</i>	+			
84315	<i>Phaenopsectra flavipes</i>	+			
84440	<i>Polypedilum (Uresipedilum) aviceps</i>	+			
84460	<i>Polypedilum (P.) fallax group</i>	+			
84470	<i>Polypedilum (P.) illinoense</i>	+			
85261	<i>Cladotanytarsus vanderwulpi group Type 1</i>	+			

Ohio EPA/DSW Ecological Assessment Section
 Macroinvertebrate Collection

Site: East Fork White Oak Creek

Collection Date: 07/31/2006 River Code: 10-420 RM: 16.50

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
00401	<i>Spongillidae</i>	+	85625	<i>Rheotanytarsus sp</i>	+
01801	<i>Turbellaria</i>	+	85800	<i>Tanytarsus sp</i>	+
03360	<i>Plumatella sp</i>	+	85821	<i>Tanytarsus glabrescens group sp 7</i>	+
04686	<i>Placobdella papillifera</i>	+	93900	<i>Elimia sp</i>	+
06201	<i>Hyaella azteca</i>	+	95100	<i>Physella sp</i>	+
08250	<i>Orconectes (Procericambarus) rusticus</i>	+			
11130	<i>Baetis intercalaris</i>	+	No. Quantitative Taxa: 0		Total Taxa: 49
11200	<i>Callibaetis sp</i>	+	No. Qualitative Taxa: 49		ICI:
11650	<i>Procloeon sp (w/ hindwing pads)</i>	+	Number of Organisms: 0		Qual EPT: 13
12200	<i>Isonychia sp</i>	+			
13400	<i>Stenacron sp</i>	+			
13521	<i>Stenonema femoratum</i>	+			
13561	<i>Maccaffertium pulchellum</i>	+			
17200	<i>Caenis sp</i>	+			
22001	<i>Coenagrionidae</i>	+			
22300	<i>Argia sp</i>	+			
45300	<i>Sigara sp</i>	+			
47600	<i>Sialis sp</i>	+			
50315	<i>Chimarra obscura</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
52430	<i>Ceratopsyche morosa group</i>	+			
52530	<i>Hydropsyche depravata group</i>	+			
58505	<i>Helicopsyche borealis</i>	+			
60900	<i>Peltodytes sp</i>	+			
65800	<i>Berosus sp</i>	+			
67700	<i>Paracymus sp</i>	+			
67800	<i>Tropisternus sp</i>	+			
68201	<i>Scirtidae</i>	+			
68901	<i>Macronychus glabratus</i>	+			
69400	<i>Stenelmis sp</i>	+			
77800	<i>Helopelopia sp</i>	+			
81231	<i>Nanocladius (N.) crassicornus or N. (N.) "rectinervis"</i>	+			
81250	<i>Nanocladius (N.) minimus</i>	+			
81270	<i>Nanocladius (N.) spiniplenus</i>	+			
82730	<i>Chironomus (C.) decorus group</i>	+			
83040	<i>Dicrotendipes neomodestus</i>	+			
83051	<i>Dicrotendipes simpsoni</i>	+			
83300	<i>Glyptotendipes (G.) sp</i>	+			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	+			
84460	<i>Polypedilum (P.) fallax group</i>	+			
84470	<i>Polypedilum (P.) illinoense</i>	+			
84700	<i>Stenochironomus sp</i>	+			
85230	<i>Cladotanytarsus mancus group</i>	+			
85500	<i>Paratanytarsus sp</i>	+			

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: East Fork White Oak Creek
Mowrystown upst. Park Dam

Collection Date: 08/29/2006 River Code: 10-420 RM: 10.60

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
00401	<i>Spongillidae</i>	+	83840	<i>Microtendipes pedellus group</i>	33
01320	<i>Hydra sp</i>	84 +	83900	<i>Nilothauma sp</i>	11
03360	<i>Plumatella sp</i>	5 +	84060	<i>Parachironomus pectinatellae</i>	11
03600	<i>Oligochaeta</i>	156 +	84450	<i>Polypedilum (Uresipedilum) flavum</i>	11
04685	<i>Placobdella ornata</i>	+	84460	<i>Polypedilum (P.) fallax group</i>	+
06201	<i>Hyaella azteca</i>	+	84470	<i>Polypedilum (P.) illinoense</i>	+
08250	<i>Orconectes (Procericambarus) rusticus</i>	+	84520	<i>Polypedilum (Tripodura) halterale group</i>	+
08601	<i>Hydrachnidia</i>	+	84700	<i>Stenochironomus sp</i>	+
11020	<i>Acerpenna pygmaea</i>	1	84790	<i>Tribelos fuscicorne</i>	87
11130	<i>Baetis intercalaris</i>	1	84800	<i>Tribelos jucundum</i>	+
11200	<i>Callibaetis sp</i>	1 +	85230	<i>Cladotanytarsus mancus group</i>	22
11651	<i>Procloeon sp (w/o hindwing pads)</i>	1	85800	<i>Tanytarsus sp</i>	130 +
11670	<i>Procloeon viridoculare</i>	+	85821	<i>Tanytarsus glabrescens group sp 7</i>	130 +
13400	<i>Stenacron sp</i>	+	93900	<i>Elimia sp</i>	+
13521	<i>Stenonema femoratum</i>	5 +	95100	<i>Physella sp</i>	+
14950	<i>Leptophlebia sp or Paraleptophlebia sp</i>	+	96900	<i>Ferrissia sp</i>	4
17200	<i>Caenis sp</i>	176 +			
22001	<i>Coenagrionidae</i>	+	No. Quantitative Taxa: 29		Total Taxa: 60
22300	<i>Argia sp</i>	12 +	No. Qualitative Taxa: 44		ICI: 26
47600	<i>Sialis sp</i>	+	Number of Organisms: 1329		Qual EPT: 8
51600	<i>Polycentropus sp</i>	+			
57900	<i>Pycnopsyche sp</i>	+			
60900	<i>Peltodytes sp</i>	+			
63300	<i>Hydroporus sp</i>	+			
68601	<i>Ancyronyx variegata</i>	+			
68708	<i>Dubiraphia vittata group</i>	2 +			
69400	<i>Stenelmis sp</i>	+			
70900	<i>Gonomyia sp</i>	+			
71800	<i>Pseudolimnophila sp</i>	+			
72110	<i>Pericoma or Telmatoscopus sp</i>	+			
72420	<i>Chaoborus sp</i>	+			
74501	<i>Ceratopogonidae</i>	+			
77120	<i>Ablabesmyia mallochi</i>	22 +			
77130	<i>Ablabesmyia rhamphe group</i>	11			
77500	<i>Conchapelopia sp</i>	11			
78401	<i>Natarsia species A (sensu Roback, 1978)</i>	+			
78655	<i>Procladius (Holotanypus) sp</i>	11			
81231	<i>Nanocladius (N.) crassicornus or N. (N.) "rectinervis"</i>	22			
82730	<i>Chironomus (C.) decorus group</i>	+			
82820	<i>Cryptochironomus sp</i>	+			
83002	<i>Dicrotendipes modestus</i>	11			
83040	<i>Dicrotendipes neomodestus</i>	54 +			
83051	<i>Dicrotendipes simpsoni</i>	11			
83300	<i>Glyptotendipes (G.) sp</i>	293 +			

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: East Fork White Oak Creek
upst. Bells Run

Collection Date: 08/21/2006 River Code: 10-420 RM: 5.80

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
00401	<i>Spongillidae</i>	+	68901	<i>Macronychus glabratus</i>	61 +
01320	<i>Hydra sp</i>	129	69400	<i>Stenelmis sp</i>	4 +
01801	<i>Turbellaria</i>	35 +	71100	<i>Hexatoma sp</i>	+
03360	<i>Plumatella sp</i>	1 +	72340	<i>Dixella sp</i>	+
03451	<i>Urnatella gracilis</i>	16 +	72700	<i>Anopheles sp</i>	+
03600	<i>Oligochaeta</i>	+	74100	<i>Simulium sp</i>	1
06201	<i>Hyaella azteca</i>	+	74501	<i>Ceratopogonidae</i>	+
08250	<i>Orconectes (Procericambarus) rusticus</i>	+	74650	<i>Atrichopogon sp</i>	33
11020	<i>Acerpenna pygmaea</i>	84	77120	<i>Ablabesmyia mallochi</i>	+
11130	<i>Baetis intercalaris</i>	203 +	77130	<i>Ablabesmyia rhamphe group</i>	+
11250	<i>Centroptilum sp (w/o hindwing pads)</i>	+	77355	<i>Clinotanypus pinguis</i>	+
11600	<i>Paracloeodes fleeki</i>	+	77500	<i>Conchapelopia sp</i>	245
11651	<i>Procloeon sp (w/o hindwing pads)</i>	1 +	77750	<i>Hayesomyia senata or Thienemannimyia norena</i>	343
11670	<i>Procloeon viridoculare</i>	+	77800	<i>Helopelopia sp</i>	49
12200	<i>Isonychia sp</i>	26 +	78140	<i>Labrundinia pilosella</i>	49 +
13400	<i>Stenacron sp</i>	2 +	78450	<i>Nilotanypus fimbriatus</i>	147
13510	<i>Maccaffertium exiguum</i>	2	80370	<i>Corynoneura lobata</i>	16
13521	<i>Stenonema femoratum</i>	+	81231	<i>Nanocladius (N.) crassicornus or N. (N.) "rectinervis"</i>	49
13561	<i>Maccaffertium pulchellum</i>	57 +	83040	<i>Dicrotendipes neomodestus</i>	49
17200	<i>Caenis sp</i>	35 +	83158	<i>Endochironomus nigricans</i>	+
22001	<i>Coenagrionidae</i>	+	83300	<i>Glyptotendipes (G.) sp</i>	441 +
22300	<i>Argia sp</i>	36 +	83310	<i>Glyptotendipes (Heynotendipes) amplus</i>	98
23909	<i>Boyeria vinosa</i>	+	83820	<i>Microtendipes "caelum" (sensu Simpson & Bode, 1980)</i>	49
24501	<i>Gomphidae</i>	+	84450	<i>Polypedilum (Uresipedilum) flavum</i>	1274 +
45400	<i>Trichocorixa sp</i>	+	84470	<i>Polypedilum (P.) illinoense</i>	147
47600	<i>Sialis sp</i>	+	84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+
49101	<i>Sisyridae</i>	+	84800	<i>Tribelos jucundum</i>	+
50315	<i>Chimarra obscura</i>	358 +	85625	<i>Rheotanytarsus sp</i>	1666 +
51206	<i>Cyrnellus fraternus</i>	1	85800	<i>Tanytarsus sp</i>	49
51600	<i>Polycentropus sp</i>	+	87540	<i>Hemerodromia sp</i>	34
52200	<i>Cheumatopsyche sp</i>	473 +	93900	<i>Elimia sp</i>	1 +
52530	<i>Hydropsyche depravata group</i>	1 +	98600	<i>Sphaerium sp</i>	+
53800	<i>Hydroptila sp</i>	1	99180	<i>Strophitus undulatus undulatus</i>	+
57900	<i>Pycnopsyche sp</i>	+	99860	<i>Lampsilis radiata luteola</i>	+
59160	<i>Ceraclea spongillovorax</i>	66			
59520	<i>Oecetis cinerascens</i>	1 +			
60900	<i>Peltodytes sp</i>	+			
65800	<i>Berosus sp</i>	+			
67800	<i>Tropisternus sp</i>	+			
68075	<i>Psephenus herricki</i>	+			
68130	<i>Helichus sp</i>	2 +			
68201	<i>Scirtidae</i>	3			
68601	<i>Ancyronyx variegata</i>	18 +			
68708	<i>Dubiraphia vittata group</i>	1 +			

No. Quantitative Taxa: 45 Total Taxa: 78
 No. Qualitative Taxa: 57 ICI: 48
 Number of Organisms: 6357 Qual EPT: 16

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: East Fork White Oak Creek
dst. Slabcamp Run

Collection Date: 08/22/2006 River Code: 10-420 RM: 3.30

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
00653	<i>Eunapius fragilis</i>	+	68601	<i>Ancyronyx variegata</i>	+
01320	<i>Hydra sp</i>	16	68708	<i>Dubiraphia vittata group</i>	+
01801	<i>Turbellaria</i>	1 +	68901	<i>Macronychus glabratus</i>	48 +
03360	<i>Plumatella sp</i>	10	69400	<i>Stenelmis sp</i>	2 +
03451	<i>Urnatella gracilis</i>	+	74673	<i>Atrichopogon websteri</i>	38
03600	<i>Oligochaeta</i>	+	77120	<i>Ablabesmyia mallochi</i>	+
04666	<i>Helobdella triserialis</i>	+	77355	<i>Clinotanypus pinguis</i>	+
06201	<i>Hyalella azteca</i>	+	77750	<i>Hayesomyia senata or Thienemannimyia norena</i>	143
08250	<i>Orconectes (Procericambarus) rusticus</i>	+	77800	<i>Helopelopia sp</i>	13 +
08601	<i>Hydrachnidia</i>	+	78140	<i>Labrundinia pilosella</i>	12
11020	<i>Acerpenna pygmaea</i>	131 +	78401	<i>Natarsia species A (sensu Roback, 1978)</i>	+
11130	<i>Baetis intercalaris</i>	83 +	78450	<i>Nilotanypus fimbriatus</i>	14
11650	<i>Procloeon sp (w/ hindwing pads)</i>	+	80363	<i>Corynoneura sp 12</i>	4
11651	<i>Procloeon sp (w/o hindwing pads)</i>	+	80370	<i>Corynoneura lobata</i>	34
11670	<i>Procloeon viridoculare</i>	+	82101	<i>Thienemanniella taurocapita</i>	8
12200	<i>Isonychia sp</i>	52 +	82141	<i>Thienemanniella xena</i>	4
13000	<i>Leucrocota sp</i>	15 +	82730	<i>Chironomus (C.) decorus group</i>	6
13100	<i>Nixe sp</i>	+	82820	<i>Cryptochironomus sp</i>	6 +
13400	<i>Stenacron sp</i>	85 +	83040	<i>Dicrotendipes neomodestus</i>	+
13521	<i>Stenonema femoratum</i>	4 +	83300	<i>Glyptotendipes (G.) sp</i>	6 +
13561	<i>Maccaffertium pulchellum</i>	61 +	83310	<i>Glyptotendipes (Heynotendipes) amplus</i>	52
17200	<i>Caenis sp</i>	28 +	83820	<i>Microtendipes "caelum" (sensu Simpson & Bode, 1980)</i>	+
22001	<i>Coenagrionidae</i>	+	84040	<i>Parachironomus frequens</i>	6
22300	<i>Argia sp</i>	3 +	84060	<i>Parachironomus pectinatellae</i>	6
23909	<i>Boyeria vinosa</i>	1 +	84450	<i>Polypedilum (Uresipedilum) flavum</i>	6 +
48410	<i>Corydalus cornutus</i>	2 +	84470	<i>Polypedilum (P.) illinoense</i>	6 +
48620	<i>Nigronia serricornis</i>	1	84490	<i>Polypedilum (Cerobregma) ontario</i>	6 +
49200	<i>Climacia sp</i>	+	84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+
50315	<i>Chimarra obscura</i>	13 +	84888	<i>Xenochironomus xenolabis</i>	+
51206	<i>Cyrnellus fraternus</i>	+	85625	<i>Rheotanytarsus sp</i>	175 +
51600	<i>Polycentropus sp</i>	+	85802	<i>Tanytarsus curticornis</i>	19
52200	<i>Cheumatopsyche sp</i>	57 +	85821	<i>Tanytarsus glabrescens group sp 7</i>	6
53800	<i>Hydroptila sp</i>	+	85840	<i>Tanytarsus sepp</i>	19
57400	<i>Neophylax sp</i>	+	86200	<i>Tabanus sp</i>	+
58505	<i>Helicopsyche borealis</i>	+	87540	<i>Hemerodromia sp</i>	6
59100	<i>Ceraclea sp</i>	+	93900	<i>Elimia sp</i>	30 +
59520	<i>Oecetis cinerascens</i>	+	96120	<i>Menetus (Micromenetus) dilatatus</i>	+
59550	<i>Oecetis inconspicua complex sp A (sensu Floyd, 1995)</i>	+	96900	<i>Ferrissia sp</i>	17 +
59970	<i>Petrophila sp</i>	+	98600	<i>Sphaerium sp</i>	+
60900	<i>Peltodytes sp</i>	+	99160	<i>Anodontoides ferussacianus</i>	+
65800	<i>Berosus sp</i>	+	99180	<i>Strophitus undulatus undulatus</i>	+
68075	<i>Psephenus herricki</i>	+	99280	<i>Lasmigona costata</i>	+
68130	<i>Helichus sp</i>	3 +	99860	<i>Lampsilis radiata luteola</i>	+
68201	<i>Scirtidae</i>	2			

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: East Fork White Oak Creek
dst. Slabcamp Run

Collection Date: 08/22/2006 River Code: 10-420 RM: 3.30

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
99880	<i>Lampsilis cardium</i>	+			

No. Quantitative Taxa: 46 Total Taxa: 88
No. Qualitative Taxa: 68 ICI: **48**
Number of Organisms: 1260 Qual EPT: 22

Ohio EPA/DSW Ecological Assessment Section
 Macroinvertebrate Collection

Site: Browns Run

Collection Date: 08/15/2006 River Code: 10-422 RM: 0.10

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
03040	<i>Fredericella sp</i>	+	85615	<i>Rheotanytarsus pellucidus</i>	+
03360	<i>Plumatella sp</i>	+	85625	<i>Rheotanytarsus sp</i>	+
03600	<i>Oligochaeta</i>	+	85800	<i>Tanytarsus sp</i>	+
11120	<i>Baetis flavistriga</i>	+	85821	<i>Tanytarsus glabrescens group sp 7</i>	+
11130	<i>Baetis intercalaris</i>	+	86100	<i>Chrysops sp</i>	+
11651	<i>Procloeon sp (w/o hindwing pads)</i>	+	95100	<i>Physella sp</i>	+
13400	<i>Stenacron sp</i>	+	96900	<i>Ferrissia sp</i>	+
13521	<i>Stenonema femoratum</i>	+	98600	<i>Sphaerium sp</i>	+
14950	<i>Leptophlebia sp or Paraleptophlebia sp</i>	+			
17200	<i>Caenis sp</i>	+	No. Quantitative Taxa: 0		Total Taxa: 52
21200	<i>Calopteryx sp</i>	+	No. Qualitative Taxa: 52		ICI:
22001	<i>Coenagrionidae</i>	+	Number of Organisms: 0		Qual EPT: 13
22300	<i>Argia sp</i>	+			
23909	<i>Boyeria vinosa</i>	+			
24900	<i>Gomphus sp</i>	+			
27500	<i>Somatochlora sp</i>	+			
50315	<i>Chimarra obscura</i>	+			
51600	<i>Polycentropus sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
52530	<i>Hydropsyche depravata group</i>	+			
58505	<i>Helicopsyche borealis</i>	+			
59720	<i>Triaenodes ignitus</i>	+			
68075	<i>Psephenus herricki</i>	+			
68130	<i>Helichus sp</i>	+			
68707	<i>Dubiraphia quadrinotata</i>	+			
69400	<i>Stenelmis sp</i>	+			
71100	<i>Hexatoma sp</i>	+			
72340	<i>Dixella sp</i>	+			
74100	<i>Simulium sp</i>	+			
77120	<i>Ablabesmyia mallochi</i>	+			
77800	<i>Helopelopia sp</i>	+			
78140	<i>Labrundinia pilosella</i>	+			
78401	<i>Natarsia species A (sensu Roback, 1978)</i>	+			
78601	<i>Pentaneura Type I</i>	+			
78655	<i>Procladius (Holotanypus) sp</i>	+			
80204	<i>Brillia flavifrons group</i>	+			
80370	<i>Corynoneura lobata</i>	+			
80420	<i>Cricotopus (C.) bicinctus</i>	+			
83820	<i>Microtendipes "caelum" (sensu Simpson & Bode, 1980)</i>	+			
84210	<i>Paratendipes albimanus or P. duplicatus</i>	+			
84520	<i>Polypedilum (Tripodura) halterale group</i>	+			
84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+			
84750	<i>Stictochironomus sp</i>	+			
85500	<i>Paratanytarsus sp</i>	+			

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Slabcamp Run

Collection Date: 08/16/2006 River Code: 10-424 RM: 3.00

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+			
03600	<i>Oligochaeta</i>	+			
05900	<i>Lirceus sp</i>	+			
06904	<i>Synurella dentata</i>	+			
08250	<i>Orconectes (Procericambarus) rusticus</i>	+			
13521	<i>Stenonema femoratum</i>	+			
17200	<i>Caenis sp</i>	+			
22001	<i>Coenagrionidae</i>	+			
45100	<i>Palmacorixa sp</i>	+			
47600	<i>Sialis sp</i>	+			
60900	<i>Peltodytes sp</i>	+			
67500	<i>Laccobius sp</i>	+			
68201	<i>Scirtidae</i>	+			
72340	<i>Dixella sp</i>	+			
72700	<i>Anopheles sp</i>	+			
77120	<i>Ablabesmyia mallochi</i>	+			
78401	<i>Natarsia species A (sensu Roback, 1978)</i>	+			
78655	<i>Procladius (Holotanypus) sp</i>	+			
82730	<i>Chironomus (C.) decorus group</i>	+			
82820	<i>Cryptochironomus sp</i>	+			
83040	<i>Dicrotendipes neomodestus</i>	+			
83051	<i>Dicrotendipes simpsoni</i>	+			
83300	<i>Glyptotendipes (G.) sp</i>	+			
83590	<i>Kiefferulus sp</i>	+			
84210	<i>Paratendipes albimanus or P. duplicatus</i>	+			
84469	<i>Polypedilum (P.) illinoense group</i>	+			
84750	<i>Stictochironomus sp</i>	+			
85800	<i>Tanytarsus sp</i>	+			
95100	<i>Physella sp</i>	+			

No. Quantitative Taxa: 0	Total Taxa: 29
No. Qualitative Taxa: 29	ICI:
Number of Organisms: 0	Qual EPT: 2

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Slabcamp Run
upst. Sardinia WWTP

Collection Date: 08/15/2006 River Code: 10-424 RM: 1.10

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+	98600	<i>Sphaerium sp</i>	+
03600	<i>Oligochaeta</i>	+			
05900	<i>Lirceus sp</i>	+	No. Quantitative Taxa: 0		Total Taxa: 45
06904	<i>Synurella dentata</i>	+	No. Qualitative Taxa: 45		ICI:
08250	<i>Orconectes (Procericambarus) rusticus</i>	+	Number of Organisms: 0		Qual EPT: 8
11020	<i>Acerpenna pygmaea</i>	+			
13000	<i>Leucrocuta sp</i>	+			
13400	<i>Stenacron sp</i>	+			
13521	<i>Stenonema femoratum</i>	+			
17200	<i>Caenis sp</i>	+			
18708	<i>Hexagenia bilineata</i>	+			
21200	<i>Calopteryx sp</i>	+			
22001	<i>Coenagrionidae</i>	+			
23804	<i>Basiaeschna janata</i>	+			
23909	<i>Boyeria vinosa</i>	+			
27500	<i>Somatochlora sp</i>	+			
51600	<i>Polycentropus sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
60900	<i>Peltodytes sp</i>	+			
63300	<i>Hydroporus sp</i>	+			
63900	<i>Laccophilus sp</i>	+			
68075	<i>Psephenus herricki</i>	+			
68707	<i>Dubiraphia quadrinotata</i>	+			
69400	<i>Stenelmis sp</i>	+			
71300	<i>Limonia sp</i>	+			
72700	<i>Anopheles sp</i>	+			
77120	<i>Ablabesmyia mallochii</i>	+			
77500	<i>Conchapelopia sp</i>	+			
77800	<i>Helopelopia sp</i>	+			
78200	<i>Larsia sp</i>	+			
82820	<i>Cryptochironomus sp</i>	+			
83040	<i>Dicrotendipes neomodestus</i>	+			
83300	<i>Glyptotendipes (G.) sp</i>	+			
83840	<i>Microtendipes pedellus group</i>	+			
84315	<i>Phaenopsectra flavipes</i>	+			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	+			
84460	<i>Polypedilum (P.) fallax group</i>	+			
84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+			
84700	<i>Stenochironomus sp</i>	+			
84750	<i>Stictochironomus sp</i>	+			
85821	<i>Tanytarsus glabrescens group sp 7</i>	+			
95100	<i>Physella sp</i>	+			
96264	<i>Planorbella (Pierosoma) pilsbryi</i>	+			
96900	<i>Ferrissia sp</i>	+			

Ohio EPA/DSW Ecological Assessment Section
 Macroinvertebrate Collection

Site: Bells Run

Collection Date: 08/01/2006 River Code: 10-426 RM: 1.90

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
03600	<i>Oligochaeta</i>	+			
04666	<i>Helobdella triserialis</i>	+			
04686	<i>Placobdella papillifera</i>	+			
04964	<i>Mooreobdella microstoma</i>	+			
05800	<i>Caecidotea sp</i>	+			
07880	<i>Cambarus (Tubericambarus) thomai</i>	+			
11200	<i>Callibaetis sp</i>	+			
13400	<i>Stenacron sp</i>	+			
17200	<i>Caenis sp</i>	+			
22001	<i>Coenagrionidae</i>	+			
27500	<i>Somatochlora sp</i>	+			
45300	<i>Sigara sp</i>	+			
45400	<i>Trichocorixa sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
60900	<i>Peltodytes sp</i>	+			
63300	<i>Hydroporus sp</i>	+			
65800	<i>Berosus sp</i>	+			
67800	<i>Tropisternus sp</i>	+			
68201	<i>Scirtidae</i>	+			
68707	<i>Dubiraphia quadrinotata</i>	+			
72700	<i>Anopheles sp</i>	+			
72900	<i>Culex sp</i>	+			
74501	<i>Ceratopogonidae</i>	+			
77355	<i>Clinotanypus pinguis</i>	+			
77500	<i>Conchapelopia sp</i>	+			
78401	<i>Natarsia species A (sensu Roback, 1978)</i>	+			
78702	<i>Psectrotanypus dyari</i>	+			
79400	<i>Zavreliomyia sp</i>	+			
82710	<i>Chironomus (C.) sp</i>	+			
83051	<i>Dicrotendipes simpsoni</i>	+			
83300	<i>Glyptotendipes (G.) sp</i>	+			
83590	<i>Kiefferulus sp</i>	+			
84210	<i>Paratendipes albimanus or P. duplicatus</i>	+			
84750	<i>Stictochironomus sp</i>	+			
85500	<i>Paratanytarsus sp</i>	+			
85625	<i>Rheotanytarsus sp</i>	+			
85800	<i>Tanytarsus sp</i>	+			
87400	<i>Stratiomys sp</i>	+			
95100	<i>Physella sp</i>	+			
96264	<i>Planorbella (Pierosoma) pilsbryi</i>	+			

No. Quantitative Taxa: 0 Total Taxa: 40
 No. Qualitative Taxa: 40 ICI:
 Number of Organisms: 0 Qual EPT: 4

Ohio EPA/DSW Ecological Assessment Section
 Macroinvertebrate Collection

Site: Plum Run

Collection Date: 08/01/2006 River Code: 10-427 RM: 0.90

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+			
03600	<i>Oligochaeta</i>	+			
06201	<i>Hyaella azteca</i>	+			
06904	<i>Synurella dentata</i>	+			
08250	<i>Orconectes (Procericambarus) rusticus</i>	+			
08601	<i>Hydrachnidia</i>	+			
11130	<i>Baetis intercalaris</i>	+			
11200	<i>Callibaetis sp</i>	+			
11250	<i>Centroptilum sp (w/o hindwing pads)</i>	+			
13400	<i>Stenacron sp</i>	+			
13521	<i>Stenonema femoratum</i>	+			
17200	<i>Caenis sp</i>	+			
21200	<i>Calopteryx sp</i>	+			
22001	<i>Coenagrionidae</i>	+			
23600	<i>Aeshna sp</i>	+			
23909	<i>Boyeria vinosa</i>	+			
47600	<i>Sialis sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
52530	<i>Hydropsyche depravata group</i>	+			
60400	<i>Gyrinus sp</i>	+			
60900	<i>Peltodytes sp</i>	+			
67800	<i>Tropisternus sp</i>	+			
68201	<i>Scirtidae</i>	+			
68708	<i>Dubiraphia vittata group</i>	+			
69400	<i>Stenelmis sp</i>	+			
72700	<i>Anopheles sp</i>	+			
72900	<i>Culex sp</i>	+			
74100	<i>Simulium sp</i>	+			
74501	<i>Ceratopogonidae</i>	+			
77120	<i>Ablabesmyia mallochi</i>	+			
77500	<i>Conchapelopia sp</i>	+			
83040	<i>Dicrotendipes neomodestus</i>	+			
83300	<i>Glyptotendipes (G.) sp</i>	+			
83840	<i>Microtendipes pedellus group</i>	+			
84210	<i>Paratendipes albimanus or P. duplicatus</i>	+			
84440	<i>Polypedilum (Uresipedilum) aviceps</i>	+			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	+			
84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+			
84750	<i>Stictochironomus sp</i>	+			
85201	<i>Cladotanytarsus species group A</i>	+			
85500	<i>Paratanytarsus sp</i>	+			
85625	<i>Rheotanytarsus sp</i>	+			
95100	<i>Physella sp</i>	+			
98600	<i>Sphaerium sp</i>	+			

Ohio EPA/DSW Ecological Assessment Section
 Macroinvertebrate Collection

Site: Plum Run

Collection Date: 08/01/2006 River Code: 10-427 RM: 0.30

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+	85230	<i>Cladotanytarsus mancus group</i>	+
05900	<i>Lirceus sp</i>	+	85625	<i>Rheotanytarsus sp</i>	+
06904	<i>Synurella dentata</i>	+	87540	<i>Hemerodromia sp</i>	+
08250	<i>Orconectes (Procericambarus) rusticus</i>	+	96900	<i>Ferrissia sp</i>	+
11120	<i>Baetis flavistriga</i>	+	98200	<i>Pisidium sp</i>	+
11130	<i>Baetis intercalaris</i>	+			
11430	<i>Dipheter hageni</i>	+	No. Quantitative Taxa: 0		Total Taxa: 49
11650	<i>Procloeon sp (w/ hindwing pads)</i>	+	No. Qualitative Taxa: 49		ICI:
11651	<i>Procloeon sp (w/o hindwing pads)</i>	+	Number of Organisms: 0		Qual EPT: 15
13400	<i>Stenacron sp</i>	+			
13521	<i>Stenonema femoratum</i>	+			
15000	<i>Paraleptophlebia sp</i>	+			
17200	<i>Caenis sp</i>	+			
47600	<i>Sialis sp</i>	+			
50301	<i>Chimarra aterrima</i>	+			
50315	<i>Chimarra obscura</i>	+			
51600	<i>Polycentropus sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
53800	<i>Hydroptila sp</i>	+			
58505	<i>Helicopsyche borealis</i>	+			
63300	<i>Hydroporus sp</i>	+			
68075	<i>Psephenus herricki</i>	+			
68201	<i>Scirtidae</i>	+			
68707	<i>Dubiraphia quadrinotata</i>	+			
68708	<i>Dubiraphia vittata group</i>	+			
69400	<i>Stenelmis sp</i>	+			
72340	<i>Dixella sp</i>	+			
74501	<i>Ceratopogonidae</i>	+			
77120	<i>Ablabesmyia mallochi</i>	+			
77500	<i>Conchapelopia sp</i>	+			
77800	<i>Helopelopia sp</i>	+			
78401	<i>Natarsia species A (sensu Roback, 1978)</i>	+			
80351	<i>Corynoneura n.sp I</i>	+			
81650	<i>Parametriocnemus sp</i>	+			
82820	<i>Cryptochironomus sp</i>	+			
83300	<i>Glyptotendipes (G.) sp</i>	+			
83840	<i>Microtendipes pedellus group</i>	+			
84440	<i>Polypedilum (Uresipedilum) aviceps</i>	+			
84460	<i>Polypedilum (P.) fallax group</i>	+			
84470	<i>Polypedilum (P.) illinoense</i>	+			
84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+			
84700	<i>Stenochironomus sp</i>	+			
84750	<i>Stictochironomus sp</i>	+			
85201	<i>Cladotanytarsus species group A</i>	+			

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: North Fork White Oak Creek

Collection Date: 07/31/2006 River Code: 10-430 RM: 19.60

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+			
03600	<i>Oligochaeta</i>	+			
04666	<i>Helobdella triserialis</i>	+			
04685	<i>Placobdella ornata</i>	+			
06201	<i>Hyaella azteca</i>	+			
08250	<i>Orconectes (Procericambarus) rusticus</i>	+			
11200	<i>Callibaetis sp</i>	+			
17200	<i>Caenis sp</i>	+			
22001	<i>Coenagrionidae</i>	+			
42700	<i>Belostoma sp</i>	+			
45400	<i>Trichocorixa sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
59500	<i>Oecetis sp</i>	+			
60900	<i>Peltodytes sp</i>	+			
65800	<i>Berosus sp</i>	+			
66901	<i>Helocombus bifidus</i>	+			
67500	<i>Laccobius sp</i>	+			
67700	<i>Paracymus sp</i>	+			
67800	<i>Tropisternus sp</i>	+			
68201	<i>Scirtidae</i>	+			
71900	<i>Tipula sp</i>	+			
72900	<i>Culex sp</i>	+			
77500	<i>Conchapelopia sp</i>	+			
82820	<i>Cryptochironomus sp</i>	+			
83158	<i>Endochironomus nigricans</i>	+			
83300	<i>Glyptotendipes (G.) sp</i>	+			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	+			
84470	<i>Polypedilum (P.) illinoense</i>	+			
84520	<i>Polypedilum (Tripodura) halterale group</i>	+			
84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+			
84750	<i>Stictochironomus sp</i>	+			
85230	<i>Cladotanytarsus mancus group</i>	+			
85625	<i>Rheotanytarsus sp</i>	+			
85800	<i>Tanytarsus sp</i>	+			
95100	<i>Physella sp</i>	+			
96002	<i>Helisoma anceps anceps</i>	+			
96264	<i>Planorbella (Pierosoma) pilsbryi</i>	+			
96900	<i>Ferrissia sp</i>	+			
98600	<i>Sphaerium sp</i>	+			

No. Quantitative Taxa: 0 Total Taxa: 39
 No. Qualitative Taxa: 39 ICI:
 Number of Organisms: 0 Qual EPT: 4

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: North Fork White Oak Creek

Collection Date: 07/31/2006 River Code: 10-430 RM: 18.10

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01320	<i>Hydra sp</i>	+	<hr/> No. Quantitative Taxa: 0 Total Taxa: 42 No. Qualitative Taxa: 42 ICI: Number of Organisms: 0 Qual EPT: 5		
01801	<i>Turbellaria</i>	+			
03600	<i>Oligochaeta</i>	+			
04685	<i>Placobdella ornata</i>	+			
04935	<i>Erpobdella punctata punctata</i>	+			
08250	<i>Orconectes (Procericambarus) rusticus</i>	+			
13400	<i>Stenacron sp</i>	+			
13521	<i>Stenonema femoratum</i>	+			
17200	<i>Caenis sp</i>	+			
42700	<i>Belostoma sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
58505	<i>Helicopsyche borealis</i>	+			
60900	<i>Peltodytes sp</i>	+			
65800	<i>Berosus sp</i>	+			
68201	<i>Scirtidae</i>	+			
68708	<i>Dubiraphia vittata group</i>	+			
69400	<i>Stenelmis sp</i>	+			
71300	<i>Limonia sp</i>	+			
72700	<i>Anopheles sp</i>	+			
77120	<i>Ablabesmyia mallochi</i>	+			
78450	<i>Nilotanytus fimbriatus</i>	+			
78655	<i>Procladius (Holotanytus) sp</i>	+			
82730	<i>Chironomus (C.) decorus group</i>	+			
82820	<i>Cryptochironomus sp</i>	+			
82885	<i>Cryptotendipes pseudotener</i>	+			
83040	<i>Dicrotendipes neomodestus</i>	+			
83300	<i>Glyptotendipes (G.) sp</i>	+			
83840	<i>Microtendipes pedellus group</i>	+			
84210	<i>Paratendipes albimanus or P. duplicatus</i>	+			
84315	<i>Phaenopsectra flavipes</i>	+			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	+			
84460	<i>Polypedilum (P.) fallax group</i>	+			
84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+			
84750	<i>Stictochironomus sp</i>	+			
84800	<i>Tribelos jucundum</i>	+			
85800	<i>Tanytarsus sp</i>	+			
95100	<i>Physella sp</i>	+			
96264	<i>Planorbella (Pierosoma) pilsbryi</i>	+			
96900	<i>Ferrissia sp</i>	+			
98600	<i>Sphaerium sp</i>	+			
99100	<i>Pyganodon grandis</i>	+			
99160	<i>Anodontoides ferussacianus</i>	+			

Ohio EPA/DSW Ecological Assessment Section
 Macroinvertebrate Collection

Site: North Fork White Oak Creek

Collection Date: 07/19/2006 River Code: 10-430 RM: 15.10

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+	99860	<i>Lampsilis radiata luteola</i>	+
03360	<i>Plumatella sp</i>	+			
03600	<i>Oligochaeta</i>	+	No. Quantitative Taxa: 0		Total Taxa: 45
05900	<i>Lirceus sp</i>	+	No. Qualitative Taxa: 45		ICI:
08250	<i>Orconectes (Procericambarus) rusticus</i>	+	Number of Organisms: 0		Qual EPT: 12
11120	<i>Baetis flavistriga</i>	+			
11130	<i>Baetis intercalaris</i>	+			
11200	<i>Callibaetis sp</i>	+			
11651	<i>Proclloeon sp (w/o hindwing pads)</i>	+			
13400	<i>Stenacron sp</i>	+			
13521	<i>Stenonema femoratum</i>	+			
17200	<i>Caenis sp</i>	+			
22001	<i>Coenagrionidae</i>	+			
50315	<i>Chimarra obscura</i>	+			
51600	<i>Polycentropus sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
52530	<i>Hydropsyche depravata group</i>	+			
58505	<i>Helicopsyche borealis</i>	+			
60900	<i>Peltodytes sp</i>	+			
67700	<i>Paracymus sp</i>	+			
68075	<i>Psephenus herricki</i>	+			
68201	<i>Scirtidae</i>	+			
68708	<i>Dubiraphia vittata group</i>	+			
69400	<i>Stenelmis sp</i>	+			
72700	<i>Anopheles sp</i>	+			
74501	<i>Ceratopogonidae</i>	+			
77120	<i>Ablabesmyia mallochi</i>	+			
78450	<i>Nilotanytus fimbriatus</i>	+			
82820	<i>Cryptochironomus sp</i>	+			
83040	<i>Dicrotendipes neomodestus</i>	+			
83300	<i>Glyptotendipes (G.) sp</i>	+			
83820	<i>Microtendipes "caelum" (sensu Simpson & Bode, 1980)</i>	+			
83840	<i>Microtendipes pedellus group</i>	+			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	+			
84469	<i>Polypedilum (P.) illinoense group</i>	+			
84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+			
85625	<i>Rheotanytarsus sp</i>	+			
85821	<i>Tanytarsus glabrescens group sp 7</i>	+			
86200	<i>Tabanus sp</i>	+			
93900	<i>Elimia sp</i>	+			
94400	<i>Fossaria sp</i>	+			
96900	<i>Ferrissia sp</i>	+			
98600	<i>Sphaerium sp</i>	+			
99100	<i>Pyganodon grandis</i>	+			

Ohio EPA/DSW Ecological Assessment Section
 Macroinvertebrate Collection

Site: North Fork White Oak Creek

Collection Date: 08/21/2006 River Code: 10-430 RM: 9.70

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
00401	<i>Spongillidae</i>	+	84470	<i>Polypedilum (P.) illinoense</i>	+
01801	<i>Turbellaria</i>	+	84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+
03360	<i>Plumatella sp</i>	+	84700	<i>Stenochironomus sp</i>	+
04687	<i>Placobdella parasitica</i>	+	84750	<i>Stictochironomus sp</i>	+
04935	<i>Erpobdella punctata punctata</i>	+	84888	<i>Xenochironomus xenolabis</i>	+
04964	<i>Mooreobdella microstoma</i>	+	85201	<i>Cladotanytarsus species group A</i>	+
08250	<i>Orconectes (Procericambarus) rusticus</i>	+	85264	<i>Cladotanytarsus vanderwulpi group Type 4</i>	+
11130	<i>Baetis intercalaris</i>	+	85625	<i>Rheotanytarsus sp</i>	+
11651	<i>Procloeon sp (w/o hindwing pads)</i>	+	85802	<i>Tanytarsus curticornis</i>	+
11670	<i>Procloeon viridoculare</i>	+	85821	<i>Tanytarsus glabrescens group sp 7</i>	+
13400	<i>Stenacron sp</i>	+	86200	<i>Tabanus sp</i>	+
13521	<i>Stenonema femoratum</i>	+	93900	<i>Elimia sp</i>	+
17200	<i>Caenis sp</i>	+	95100	<i>Physella sp</i>	+
22001	<i>Coenagrionidae</i>	+	96900	<i>Ferrissia sp</i>	+
22300	<i>Argia sp</i>	+	98600	<i>Sphaerium sp</i>	+
23909	<i>Boyeria vinosa</i>	+	99160	<i>Anodontoides ferussacianus</i>	+
50315	<i>Chimarra obscura</i>	+	99860	<i>Lampsilis radiata luteola</i>	+
52200	<i>Cheumatopsyche sp</i>	+			
52530	<i>Hydropsyche depravata group</i>	+	No. Quantitative Taxa: 0		Total Taxa: 60
58505	<i>Helicopsyche borealis</i>	+	No. Qualitative Taxa: 60		ICI:
59310	<i>Mystacides sepulchralis</i>	+	Number of Organisms: 0		Qual EPT: 12
59500	<i>Oecetis sp</i>	+			
60900	<i>Peltodytes sp</i>	+			
67800	<i>Tropisternus sp</i>	+			
68075	<i>Psephenus herricki</i>	+			
68130	<i>Helichus sp</i>	+			
68201	<i>Scirtidae</i>	+			
68601	<i>Ancyronyx variegata</i>	+			
68708	<i>Dubiraphia vittata group</i>	+			
69400	<i>Stenelmis sp</i>	+			
71100	<i>Hexatoma sp</i>	+			
72340	<i>Dixella sp</i>	+			
72700	<i>Anopheles sp</i>	+			
77120	<i>Ablabesmyia mallochi</i>	+			
77500	<i>Conchapelopia sp</i>	+			
77750	<i>Hayesomyia senata or Thienemannimyia norena</i>	+			
77800	<i>Helopelopia sp</i>	+			
81270	<i>Nanocladius (N.) spiniplenus</i>	+			
82820	<i>Cryptochironomus sp</i>	+			
83300	<i>Glyptotendipes (G.) sp</i>	+			
83820	<i>Microtendipes "caelum" (sensu Simpson & Bode, 1980)</i>	+			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	+			
84460	<i>Polypedilum (P.) fallax group</i>	+			

Ohio EPA/DSW Ecological Assessment Section
 Macroinvertebrate Collection

Site: North Fork White Oak Creek
 Sicily Rd.

Collection Date: 08/21/2006 River Code: 10-430 RM: 7.00

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01320	<i>Hydra sp</i>	16	83820	<i>Microtendipes "caelum" (sensu Simpson & Bode, 1980)</i>	+
01801	<i>Turbellaria</i>	+	83840	<i>Microtendipes pedellus group</i>	+
03360	<i>Plumatella sp</i>	40 +	84060	<i>Parachironomus pectinatellae</i>	29
03600	<i>Oligochaeta</i>	8 +	84210	<i>Paratendipes albimanus or P. duplicatus</i>	15
08250	<i>Orconectes (Procericambarus) rusticus</i>	1 +	84315	<i>Phaenopsectra flavipes</i>	+
11020	<i>Acerpenna pygmaea</i>	8	84450	<i>Polypedilum (Uresipedilum) flavum</i>	671 +
11130	<i>Baetis intercalaris</i>	44 +	84469	<i>Polypedilum (P.) illinoense group</i>	+
12200	<i>Isonychia sp</i>	2 +	84490	<i>Polypedilum (Cerobregma) ontario</i>	8
13000	<i>Leucrocota sp</i>	11 +	84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+
13400	<i>Stenacron sp</i>	2 +	85230	<i>Cladotanytarsus mancus group</i>	+
13521	<i>Stenonema femoratum</i>	17 +	85625	<i>Rheotanytarsus sp</i>	394 +
13561	<i>Maccaffertium pulchellum</i>	4 +	85720	<i>Stempellinella fimbriata</i>	8
17200	<i>Caenis sp</i>	+	85821	<i>Tanytarsus glabrescens group sp 7</i>	73
22001	<i>Coenagrionidae</i>	+	87540	<i>Hemerodromia sp</i>	40
22300	<i>Argia sp</i>	21 +	93900	<i>Elimia sp</i>	+
23804	<i>Basiaeschna janata</i>	+	95100	<i>Physella sp</i>	+
48620	<i>Nigronia serricornis</i>	1	96900	<i>Ferrissia sp</i>	40 +
50315	<i>Chimarra obscura</i>	118 +	97601	<i>Corbicula fluminea</i>	+
51600	<i>Polycentropus sp</i>	+	98600	<i>Sphaerium sp</i>	8 +
52200	<i>Cheumatopsyche sp</i>	269 +	99860	<i>Lampsilis radiata luteola</i>	+
52530	<i>Hydropsyche depravata group</i>	+			
58505	<i>Helicopsyche borealis</i>	+			
68075	<i>Psephenus herricki</i>	8 +	No. Quantitative Taxa: 41		Total Taxa: 63
68130	<i>Helichus sp</i>	+	No. Qualitative Taxa: 45		ICI: 44
68901	<i>Macronychus glabratus</i>	6	Number of Organisms: 2520		Qual EPT: 12
69400	<i>Stenelmis sp</i>	14 +			
71100	<i>Hexatoma sp</i>	+			
77120	<i>Ablabesmyia mallochi</i>	15 +			
77500	<i>Conchapelopia sp</i>	73			
77750	<i>Hayesomyia senata or Thienemannimyia norena</i>	87 +			
77800	<i>Helopelopia sp</i>	73 +			
78140	<i>Labrundinia pilosella</i>	+			
78450	<i>Nilotanypus fimbriatus</i>	128			
80351	<i>Corynoneura n.sp 1</i>	72 +			
80363	<i>Corynoneura sp 12</i>	16			
80370	<i>Corynoneura lobata</i>	48			
81231	<i>Nanocladius (N.) crassicornus or N. (N.) "rectinervis"</i>	29			
81270	<i>Nanocladius (N.) spinipenus</i>	15			
82730	<i>Chironomus (C.) decorus group</i>	15			
82820	<i>Cryptochironomus sp</i>	+			
83040	<i>Dicrotendipes neomodestus</i>	+			
83051	<i>Dicrotendipes simpsoni</i>	15			
83300	<i>Glyptotendipes (G.) sp</i>	58 +			

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: North Fork White Oak Creek
dst. Mt. Orab-Sardinia Rd.

Collection Date: 08/21/2006 River Code: 10-430 RM: 1.40

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
00401	<i>Spongillidae</i>	+	83310	<i>Glyptotendipes (Heynotendipes) amplus</i>	19
01801	<i>Turbellaria</i>	7	83840	<i>Microtendipes pedellus group</i>	57
03040	<i>Fredericella sp</i>	+	83900	<i>Nilothauma sp</i>	95
03360	<i>Plumatella sp</i>	1	84450	<i>Polypedilum (Uresipedilum) flavum</i>	57 +
08250	<i>Orconectes (Procericambarus) rusticus</i>	+	84490	<i>Polypedilum (Cerobregma) ontario</i>	3
11020	<i>Acerpenna pygmaea</i>	83 +	84540	<i>Polypedilum (Tripodura) scalaenum group</i>	38 +
11130	<i>Baetis intercalaris</i>	9 +	85265	<i>Cladotanytarsus vanderwulpi group Type 5</i>	+
11600	<i>Paracloeodes fleeki</i>	+	85500	<i>Paratanytarsus sp</i>	19
11650	<i>Procloeon sp (w/ hindwing pads)</i>	21 +	85625	<i>Rheotanytarsus sp</i>	663 +
12200	<i>Isonychia sp</i>	2 +	85720	<i>Stempellinella fimbriata</i>	+
13000	<i>Leucrocuta sp</i>	18 +	85800	<i>Tanytarsus sp</i>	19
13400	<i>Stenacron sp</i>	18 +	85821	<i>Tanytarsus glabrescens group sp 7</i>	303 +
13521	<i>Stenonema femoratum</i>	24 +	85840	<i>Tanytarsus sepp</i>	76
13561	<i>Maccaffertium pulchellum</i>	69 +	86200	<i>Tabanus sp</i>	+
16700	<i>Tricorythodes sp</i>	1 +	87540	<i>Hemerodromia sp</i>	45
17200	<i>Caenis sp</i>	36 +	93900	<i>Elimia sp</i>	11 +
21200	<i>Calopteryx sp</i>	1	95100	<i>Physella sp</i>	4 +
22001	<i>Coenagrionidae</i>	+	96900	<i>Ferrissia sp</i>	37 +
22300	<i>Argia sp</i>	12 +	97601	<i>Corbicula fluminea</i>	+
23909	<i>Boyeria vinosa</i>	+	99100	<i>Pyganodon grandis</i>	+
48410	<i>Corydalus cornutus</i>	1	99420	<i>Amblema plicata plicata</i>	+
50315	<i>Chimarra obscura</i>	+	99860	<i>Lampsilis radiata luteola</i>	+
51600	<i>Polycentropus sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	73 +	No. Quantitative Taxa: 40		Total Taxa: 66
53800	<i>Hydroptila sp</i>	19 +	No. Qualitative Taxa: 49		ICI: 44
58505	<i>Helicopsyche borealis</i>	+	Number of Organisms: 3239		Qual EPT: 16
60900	<i>Peltodytes sp</i>	+			
65800	<i>Berosus sp</i>	+			
68075	<i>Psephenus herricki</i>	+			
68130	<i>Helichus sp</i>	40 +			
68601	<i>Ancyronyx variegata</i>	+			
68901	<i>Macronychus glabratus</i>	1			
69400	<i>Stenelmis sp</i>	+			
72700	<i>Anopheles sp</i>	+			
74673	<i>Atrichopogon websteri</i>	694			
77120	<i>Ablabesmyia mallochi</i>	+			
77500	<i>Conchapelopia sp</i>	+			
77750	<i>Hayesomyia senata or Thienemannimyia norena</i>	322 +			
78140	<i>Labrundinia pilosella</i>	28			
80370	<i>Corynoneura lobata</i>	180			
80410	<i>Cricotopus (C.) sp</i>	19			
82820	<i>Cryptochironomus sp</i>	+			
83040	<i>Dicrotendipes neomodestus</i>	114 +			
83300	<i>Glyptotendipes (G.) sp</i>	+			

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Flat Run

Collection Date: 08/01/2006 River Code: 10-431 RM: 4.80

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
04666	<i>Helobdella triserialis</i>	+			
04935	<i>Erpobdella punctata punctata</i>	+			
08250	<i>Orconectes (Procericambarus) rusticus</i>	+			
11020	<i>Acerpenna pygmaea</i>	+			
11130	<i>Baetis intercalaris</i>	+			
13400	<i>Stenacron sp</i>	+			
13521	<i>Stenonema femoratum</i>	+			
17200	<i>Caenis sp</i>	+			
23804	<i>Basiaeschna janata</i>	+			
27500	<i>Somatochlora sp</i>	+			
42700	<i>Belostoma sp</i>	+			
43205	<i>Nepa apiculata</i>	+			
50315	<i>Chimarra obscura</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
68075	<i>Psephenus herricki</i>	+			
68201	<i>Scirtidae</i>	+			
69400	<i>Stenelmis sp</i>	+			
77800	<i>Helopelopia sp</i>	+			
84210	<i>Paratendipes albimanus or P. duplicatus</i>	+			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	+			
84750	<i>Stictochironomus sp</i>	+			
85625	<i>Rheotanytarsus sp</i>	+			
93900	<i>Elimia sp</i>	+			
95100	<i>Physella sp</i>	+			
96264	<i>Planorbella (Pierosoma) pilsbryi</i>	+			
98600	<i>Sphaerium sp</i>	+			

No. Quantitative Taxa: 0 Total Taxa: 26

No. Qualitative Taxa: 26 ICI:

Number of Organisms: 0 Qual EPT: 7

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Flat Run

Collection Date: 08/01/2006 River Code: 10-431 RM: 3.40

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+			
04935	<i>Erpobdella punctata punctata</i>	+			
04964	<i>Mooreobdella microstoma</i>	+			
05800	<i>Caecidotea sp</i>	+			
05900	<i>Lirceus sp</i>	+			
06904	<i>Synurella dentata</i>	+			
08250	<i>Orconectes (Procericambarus) rusticus</i>	+			
08601	<i>Hydrachnidia</i>	+			
13400	<i>Stenacron sp</i>	+			
13521	<i>Stenonema femoratum</i>	+			
17200	<i>Caenis sp</i>	+			
23804	<i>Basiaeschna janata</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
60900	<i>Peltodytes sp</i>	+			
67700	<i>Paracymus sp</i>	+			
68201	<i>Scirtidae</i>	+			
69400	<i>Stenelmis sp</i>	+			
72700	<i>Anopheles sp</i>	+			
77120	<i>Ablabesmyia mallochi</i>	+			
77500	<i>Conchapelopia sp</i>	+			
83300	<i>Glyptotendipes (G.) sp</i>	+			
83590	<i>Kiefferulus sp</i>	+			
83840	<i>Microtendipes pedellus group</i>	+			
84210	<i>Paratendipes albimanus or P. duplicatus</i>	+			
84315	<i>Phaenopsectra flavipes</i>	+			
84460	<i>Polypedilum (P.) fallax group</i>	+			
84750	<i>Stictochironomus sp</i>	+			
93900	<i>Elimia sp</i>	+			
95100	<i>Physella sp</i>	+			
96264	<i>Planorbella (Pierosoma) pilsbryi</i>	+			
96900	<i>Ferrissia sp</i>	+			
98600	<i>Sphaerium sp</i>	+			

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: Flat Run

Collection Date: 08/01/2006 River Code: 10-431 RM: 0.10

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
00401	<i>Spongillidae</i>	+			
03600	<i>Oligochaeta</i>	+			
04687	<i>Placobdella parasitica</i>	+			
08250	<i>Orconectes (Procericambarus) rusticus</i>	+			
11020	<i>Acerpenna pygmaea</i>	+			
11130	<i>Baetis intercalaris</i>	+			
11651	<i>Proclloeon sp (w/o hindwing pads)</i>	+			
12200	<i>Isonychia sp</i>	+			
13400	<i>Stenacron sp</i>	+			
13521	<i>Stenonema femoratum</i>	+			
17200	<i>Caenis sp</i>	+			
21001	<i>Calopterygidae</i>	+			
23909	<i>Boyeria vinosa</i>	+			
27500	<i>Somatochlora sp</i>	+			
50315	<i>Chimarra obscura</i>	+			
51600	<i>Polycentropus sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
52430	<i>Ceratopsyche morosa group</i>	+			
52530	<i>Hydropsyche depravata group</i>	+			
58505	<i>Helicopsyche borealis</i>	+			
60900	<i>Peltodytes sp</i>	+			
68075	<i>Psephenus herricki</i>	+			
69400	<i>Stenelmis sp</i>	+			
71100	<i>Hexatoma sp</i>	+			
72340	<i>Dixella sp</i>	+			
77120	<i>Ablabesmyia mallochi</i>	+			
77500	<i>Conchapelopia sp</i>	+			
77800	<i>Helopelopia sp</i>	+			
78101	<i>Labrundinia becki</i>	+			
78401	<i>Natarsia species A (sensu Roback, 1978)</i>	+			
83300	<i>Glyptotendipes (G.) sp</i>	+			
83840	<i>Microtendipes pedellus group</i>	+			
84210	<i>Paratendipes albimanus or P. duplicatus</i>	+			
84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+			
84750	<i>Stictochironomus sp</i>	+			
85625	<i>Rheotanytarsus sp</i>	+			
93900	<i>Elimia sp</i>	+			
95100	<i>Physella sp</i>	+			
96900	<i>Ferrissia sp</i>	+			
98200	<i>Pisidium sp</i>	+			

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

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Little North Fork

Collection Date: 07/19/2006 River Code: 10-436 RM: 5.10

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
03360	<i>Plumatella sp</i>	+			
03600	<i>Oligochaeta</i>	+			
04664	<i>Helobdella stagnalis</i>	+			
04666	<i>Helobdella triserialis</i>	+			
22001	<i>Coenagrionidae</i>	+			
42700	<i>Belostoma sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
67700	<i>Paracymus sp</i>	+			
77120	<i>Ablabesmyia mallochi</i>	+			
83051	<i>Dicrotendipes simpsoni</i>	+			
83300	<i>Glyptotendipes (G.) sp</i>	+			
84210	<i>Paratendipes albimanus or P. duplicatus</i>	+			
84315	<i>Phaenopsectra flavipes</i>	+			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	+			
84470	<i>Polypedilum (P.) illinoense</i>	+			
85500	<i>Paratanytarsus sp</i>	+			
85625	<i>Rheotanytarsus sp</i>	+			
94400	<i>Fossaria sp</i>	+			
95100	<i>Physella sp</i>	+			
96264	<i>Planorbella (Pierosoma) pilsbryi</i>	+			
98600	<i>Sphaerium sp</i>	+			
99880	<i>Lampsilis cardium</i>	+			

No. Quantitative Taxa: 0	Total Taxa: 22
No. Qualitative Taxa: 22	ICI:
Number of Organisms: 0	Qual EPT: 1

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Little North Fork

Collection Date: 07/19/2006 River Code: 10-436 RM: 3.00

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+			
03360	<i>Plumatella sp</i>	+	No. Quantitative Taxa: 0		Total Taxa: 42
03600	<i>Oligochaeta</i>	+	No. Qualitative Taxa: 42		ICI:
04664	<i>Helobdella stagnalis</i>	+	Number of Organisms: 0		Qual EPT: 5
04935	<i>Erpobdella punctata punctata</i>	+			
05900	<i>Lirceus sp</i>	+			
06904	<i>Synurella dentata</i>	+			
08250	<i>Orconectes (Procericambarus) rusticus</i>	+			
11130	<i>Baetis intercalaris</i>	+			
13521	<i>Stenonema femoratum</i>	+			
17200	<i>Caenis sp</i>	+			
22001	<i>Coenagrionidae</i>	+			
22300	<i>Argia sp</i>	+			
23804	<i>Basiaeschna janata</i>	+			
24900	<i>Gomphus sp</i>	+			
27500	<i>Somatochlora sp</i>	+			
50315	<i>Chimarra obscura</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
60900	<i>Peltodytes sp</i>	+			
68075	<i>Psephenus herricki</i>	+			
68201	<i>Scirtidae</i>	+			
69400	<i>Stenelmis sp</i>	+			
74501	<i>Ceratopogonidae</i>	+			
77120	<i>Ablabesmyia mallochi</i>	+			
77500	<i>Conchapelopia sp</i>	+			
81650	<i>Parametriocnemus sp</i>	+			
82820	<i>Cryptochironomus sp</i>	+			
83300	<i>Glyptotendipes (G.) sp</i>	+			
83840	<i>Microtendipes pedellus group</i>	+			
84210	<i>Paratendipes albimanus or P. duplicatus</i>	+			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	+			
84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+			
84700	<i>Stenochironomus sp</i>	+			
84750	<i>Stictochironomus sp</i>	+			
84800	<i>Tribelos jucundum</i>	+			
85500	<i>Paratanytarsus sp</i>	+			
85625	<i>Rheotanytarsus sp</i>	+			
85800	<i>Tanytarsus sp</i>	+			
93900	<i>Elimia sp</i>	+			
95100	<i>Physella sp</i>	+			
96900	<i>Ferrissia sp</i>	+			
98600	<i>Sphaerium sp</i>	+			

Ohio EPA/DW Ecological Assessment Section
 Macroinvertebrate Collection

Site: Little North Fork

Collection Date: 07/19/2006 River Code: 10-436 RM: 0.30

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+	84450	<i>Polypedilum (Uresipedilum) flavum</i>	+
03040	<i>Fredericella sp</i>	+	84460	<i>Polypedilum (P.) fallax group</i>	+
03360	<i>Plumatella sp</i>	+	84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+
04686	<i>Placobdella papillifera</i>	+	84700	<i>Stenochironomus sp</i>	+
04935	<i>Erpobdella punctata punctata</i>	+	84750	<i>Stictochironomus sp</i>	+
05900	<i>Lirceus sp</i>	+	85201	<i>Cladotanytarsus species group A</i>	+
06904	<i>Synurella dentata</i>	+	85625	<i>Rheotanytarsus sp</i>	+
08250	<i>Orconectes (Procericambarus) rusticus</i>	+	85821	<i>Tanytarsus glabrescens group sp 7</i>	+
11120	<i>Baetis flavistriga</i>	+	85840	<i>Tanytarsus sepp</i>	+
11130	<i>Baetis intercalaris</i>	+	93900	<i>Elimia sp</i>	+
11651	<i>Procloeon sp (w/o hindwing pads)</i>	+	95100	<i>Physella sp</i>	+
11670	<i>Procloeon viridoculare</i>	+	96900	<i>Ferrissia sp</i>	+
13000	<i>Leucrocota sp</i>	+			
13400	<i>Stenacron sp</i>	+	No. Quantitative Taxa: 0		Total Taxa: 55
13521	<i>Stenonema femoratum</i>	+	No. Qualitative Taxa: 55		ICI:
17200	<i>Caenis sp</i>	+	Number of Organisms: 0		Qual EPT: 10
22001	<i>Coenagrionidae</i>	+			
23804	<i>Basiaeschna janata</i>	+			
23909	<i>Boyeria vinosa</i>	+			
27500	<i>Somatochlora sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
58505	<i>Helicopsyche borealis</i>	+			
60900	<i>Peltodytes sp</i>	+			
67800	<i>Tropisternus sp</i>	+			
68130	<i>Helichus sp</i>	+			
68201	<i>Scirtidae</i>	+			
69400	<i>Stenelmis sp</i>	+			
71100	<i>Hexatoma sp</i>	+			
72340	<i>Dixella sp</i>	+			
72700	<i>Anopheles sp</i>	+			
74100	<i>Simulium sp</i>	+			
74501	<i>Ceratopogonidae</i>	+			
77120	<i>Ablabesmyia mallochi</i>	+			
77500	<i>Conchapelopia sp</i>	+			
80430	<i>Cricotopus (C.) tremulus group</i>	+			
81231	<i>Nanocladius (N.) crassicornus or N. (N.) "rectinervis"</i>	+			
81650	<i>Parametriocnemus sp</i>	+			
82820	<i>Cryptochironomus sp</i>	+			
83051	<i>Dicrotendipes simpsoni</i>	+			
83300	<i>Glyptotendipes (G.) sp</i>	+			
83820	<i>Microtendipes "caelum" (sensu Simpson & Bode, 1980)</i>	+			
83840	<i>Microtendipes pedellus group</i>	+			
84201	<i>Paratendipes sp 1</i>	+			

Ohio EPA/DW Ecological Assessment Section
 Macroinvertebrate Collection

Site: Trib to E Fk White Oak Creek (RM)

Collection Date: 08/02/2006 River Code: 10-440 RM: 2.40

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+	96120	<i>Menetus (Micromenetus) dilatatus</i>	+
04686	<i>Placobdella papillifera</i>	+	98600	<i>Sphaerium sp</i>	+
08250	<i>Orconectes (Procericambarus) rusticus</i>	+			
11120	<i>Baetis flavistriga</i>	+	No. Quantitative Taxa: 0		Total Taxa: 46
11430	<i>Dipheter hageni</i>	+	No. Qualitative Taxa: 46		ICI:
13400	<i>Stenacron sp</i>	+	Number of Organisms: 0		Qual EPT: 9
13521	<i>Stenonema femoratum</i>	+			
17200	<i>Caenis sp</i>	+			
21001	<i>Calopterygidae</i>	+			
22300	<i>Argia sp</i>	+			
23909	<i>Boyeria vinosa</i>	+			
50301	<i>Chimarra aterrima</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
52530	<i>Hydropsyche depravata group</i>	+			
58505	<i>Helicopsyche borealis</i>	+			
68130	<i>Helichus sp</i>	+			
68708	<i>Dubiraphia vittata group</i>	+			
69400	<i>Stenelmis sp</i>	+			
71100	<i>Hexatoma sp</i>	+			
72340	<i>Dixella sp</i>	+			
74501	<i>Ceratopogonidae</i>	+			
77120	<i>Ablabesmyia mallochi</i>	+			
77800	<i>Helopelopia sp</i>	+			
78350	<i>Meropelopia sp</i>	+			
78601	<i>Pentaneura Type 1</i>	+			
81650	<i>Parametriocnemus sp</i>	+			
81825	<i>Rheocricotopus (Psilocricotopus) robacki</i>	+			
82300	<i>Xylotopus par</i>	+			
82820	<i>Cryptochironomus sp</i>	+			
83040	<i>Dicrotendipes neomodestus</i>	+			
83820	<i>Microtendipes "caelum" (sensu Simpson & Bode, 1980)</i>	+			
83840	<i>Microtendipes pedellus group</i>	+			
83900	<i>Nilothauma sp</i>	+			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	+			
84460	<i>Polypedilum (P.) fallax group</i>	+			
84469	<i>Polypedilum (P.) illinoense group</i>	+			
84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+			
84700	<i>Stenochironomus sp</i>	+			
84800	<i>Tribelos jucundum</i>	+			
85201	<i>Cladotanytarsus species group A</i>	+			
85625	<i>Rheotanytarsus sp</i>	+			
87540	<i>Hemerodromia sp</i>	+			
93900	<i>Elimia sp</i>	+			
95100	<i>Physella sp</i>	+			

Ohio EPA/DSW Ecological Assessment Section
 Macroinvertebrate Collection

Site: Trib to E Fk White Oak Creek (RM)

Collection Date: 08/02/2006 River Code: 10-441 RM: 0.10

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+	84470	<i>Polypedilum (P.) illinoense</i>	+
03600	<i>Oligochaeta</i>	+	84520	<i>Polypedilum (Tripodura) halterale group</i>	+
08601	<i>Hydrachnidia</i>	+	84750	<i>Stictochironomus sp</i>	+
11130	<i>Baetis intercalaris</i>	+	85230	<i>Cladotanytarsus mancus group</i>	+
11200	<i>Callibaetis sp</i>	+	85500	<i>Paratanytarsus sp</i>	+
11250	<i>Centroptilum sp (w/o hindwing pads)</i>	+	85625	<i>Rheotanytarsus sp</i>	+
13000	<i>Leucrocuta sp</i>	+	85818	<i>Tanytarsus glabrescens group sp 4</i>	+
13521	<i>Stenonema femoratum</i>	+	85821	<i>Tanytarsus glabrescens group sp 7</i>	+
17200	<i>Caenis sp</i>	+	86100	<i>Chrysops sp</i>	+
21200	<i>Calopteryx sp</i>	+	89704	<i>Limnophora aequifrons</i>	+
22001	<i>Coenagrionidae</i>	+	95100	<i>Physella sp</i>	+
22300	<i>Argia sp</i>	+	96120	<i>Menetus (Micromenetus) dilatatus</i>	+
27500	<i>Somatochlora sp</i>	+			
47600	<i>Sialis sp</i>	+	No. Quantitative Taxa: 0		Total Taxa: 56
52200	<i>Cheumatopsyche sp</i>	+	No. Qualitative Taxa: 56		ICI:
52430	<i>Ceratopsyche morosa group</i>	+	Number of Organisms: 0		Qual EPT: 10
53800	<i>Hydroptila sp</i>	+			
58505	<i>Helicopsyche borealis</i>	+			
60900	<i>Peltodytes sp</i>	+			
67000	<i>Helophorus sp</i>	+			
67500	<i>Laccobius sp</i>	+			
67700	<i>Paracymus sp</i>	+			
67800	<i>Tropisternus sp</i>	+			
68130	<i>Helichus sp</i>	+			
68201	<i>Scirtidae</i>	+			
68707	<i>Dubiraphia quadrinotata</i>	+			
69400	<i>Stenelmis sp</i>	+			
71100	<i>Hexatoma sp</i>	+			
72340	<i>Dixella sp</i>	+			
72700	<i>Anopheles sp</i>	+			
77120	<i>Ablabesmyia mallochi</i>	+			
77500	<i>Conchapelopia sp</i>	+			
77750	<i>Hayesomyia senata or Thienemannimyia norena</i>	+			
77800	<i>Helopelopia sp</i>	+			
78601	<i>Pentaneura Type 1</i>	+			
80363	<i>Corynoneura sp 12</i>	+			
80420	<i>Cricotopus (C.) bicinctus</i>	+			
80430	<i>Cricotopus (C.) tremulus group</i>	+			
82820	<i>Cryptochironomus sp</i>	+			
83002	<i>Dicrotendipes modestus</i>	+			
83003	<i>Dicrotendipes fumidus</i>	+			
83040	<i>Dicrotendipes neomodestus</i>	+			
83840	<i>Microtendipes pedellus group</i>	+			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	+			

Ohio EPA/DSW Ecological Assessment Section
 Macroinvertebrate Collection

Site: Trib to E Fk White Oak Creek (RM)

Collection Date: 07/31/2006 River Code: 10-442 RM: 0.20

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
03600	<i>Oligochaeta</i>	+	98600	<i>Sphaerium sp</i>	+
08250	<i>Orconectes (Procericambarus) rusticus</i>	+			
11130	<i>Baetis intercalaris</i>	+	No. Quantitative Taxa: 0		Total Taxa: 45
12200	<i>Isonychia sp</i>	+	No. Qualitative Taxa: 45		ICI:
13400	<i>Stenacron sp</i>	+	Number of Organisms: 0		Qual EPT: 11
13521	<i>Stenonema femoratum</i>	+			
17200	<i>Caenis sp</i>	+			
22300	<i>Argia sp</i>	+			
50315	<i>Chimarra obscura</i>	+			
51400	<i>Nyctiophylax sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
52430	<i>Ceratopsyche morosa group</i>	+			
58505	<i>Helicopsyche borealis</i>	+			
59580	<i>Oecetis persimilis</i>	+			
60900	<i>Peltodytes sp</i>	+			
68075	<i>Psephenus herricki</i>	+			
68130	<i>Helichus sp</i>	+			
68201	<i>Scirtidae</i>	+			
68707	<i>Dubiraphia quadrinotata</i>	+			
68901	<i>Macronychus glabratus</i>	+			
69400	<i>Stenelmis sp</i>	+			
71100	<i>Hexatoma sp</i>	+			
72340	<i>Dixella sp</i>	+			
72700	<i>Anopheles sp</i>	+			
74100	<i>Simulium sp</i>	+			
77120	<i>Ablabesmyia mallochi</i>	+			
77500	<i>Conchapelopia sp</i>	+			
82820	<i>Cryptochironomus sp</i>	+			
83040	<i>Dicrotendipes neomodestus</i>	+			
83051	<i>Dicrotendipes simpsoni</i>	+			
83820	<i>Microtendipes "caelum" (sensu Simpson & Bode, 1980)</i>	+			
83840	<i>Microtendipes pedellus group</i>	+			
84315	<i>Phaenopsectra flavipes</i>	+			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	+			
84460	<i>Polypedilum (P.) fallax group</i>	+			
84469	<i>Polypedilum (P.) illinoense group</i>	+			
84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+			
84700	<i>Stenochironomus sp</i>	+			
85615	<i>Rheotanytarsus pellucidus</i>	+			
85625	<i>Rheotanytarsus sp</i>	+			
85800	<i>Tanytarsus sp</i>	+			
85802	<i>Tanytarsus curticornis</i>	+			
85821	<i>Tanytarsus glabrescens group sp 7</i>	+			
93900	<i>Elimia sp</i>	+			