

East Branch Rocky River Upstream of Former Berea WWTP

September 14, 2012

River Mile: 3.40

Collection Method: Longline Electrofishing

Drainage Area: 75 miles²

Collection Distance: 0.2 km

Species	Number	Weight (kg)	Pollution Tolerance	DELT #	Anomalies Description
Hypentelium nigricans Northern hog sucker	91	3.150	Moderately Intolerant	0	---
Catostomus commersonii Common white sucker	34	1.525	Highly Tolerant	0	---
Notemigonus crysoleucas Golden shiner	2	0.012	Highly Tolerant	0	---
Semotilus atromaculatus Creek chub	83	0.333	Highly Tolerant	0	---
Notropis rubellus Rosyface Shiner	2	0.008	Intolerant	0	---
Notropis chrysocephalus Striped shiner	101	1.125	--	0	---
Cyprinella spiloptera Spotfin shiner	8	0.020	--	0	---
Notropis dorsalis Bigmouth Shiner	6	0.014	--	0	---
Notropis stramineus Sand shiner	67	0.088	Moderately Intolerant	0	---
Ericymba buccata Silverjaw minnow	1	0.006	--	0	---
Pimephales notatus Bluntnose minnow	133	0.349	Highly Tolerant	0	---
Campostoma anomalum Central stoneroller minnow	275	0.818	--	0	---
Ictalurus natalis Yellow bullhead	2	0.225	Highly Tolerant	0	---
Ambloplites rupestris Northern rockbass	3	0.264	--	0	---
Micropterus dolomieu Smallmouth bass	37	2.164	Moderately Intolerant	1	Erosion

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Micropterus salmoides Largemouth bass	1	0.070	--	0	---
Lepomis cyanellus Green sunfish	6	0.100	Highly Tolerant	0	---
HYBRID Green SF X Pumpkinseed	1	0.010	--	0	---
Etheostoma blenniodes Greenside darter	234	0.720	Moderately Intolerant	0	---
Etheostoma caeruleum Rainbow darter	16	0.032	Moderately Intolerant	0	---
Etheostoma nigrum Johnny darter	4	0.010	--	0	---
Neogobius melanostomus Round goby	19	0.099	--	0	---
Totals	<u><u>1126</u></u>	<u><u>11.142</u></u>		<u><u>1</u></u>	

*DELT anomalies were observed on	0.09	% of the fish collected.
Index of Biotic Integrity (IBI) =	44	(Good)
Modified Index of Well-Being (MIwb) =	9.2	(Very Good)
Shannon Diversity Index, no.	2.229	
Shannon Diversity Index, wt.	2.149	
N	1269	
B	12.73	

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River Mile: 3.10

Collection Method: Longline Electrofishing

Drainage Area: 75 miles²

Collection Distance: 0.2 km

Species	Number	Weight (kg)	Pollution Tolerance	DELT #	Anomalies Description
Moxostoma erythrurum Golden redhorse	2	0.010	Moderately Intolerant	0	---
Hypentelium nigricans Northern hog sucker	126	3.350	Moderately Intolerant	0	---
Catostomus commersonii Common white sucker	45	1.402	Highly Tolerant	0	---
Semotilus atromaculatus Creek chub	142	0.960	Highly Tolerant	0	---
Notropis chrysocephalus Striped shiner	129	1.319	--	0	---
Cyprinella spiloptera Spotfin shiner	4	0.014	--	0	---
Notropis dorsalis Bigmouth Shiner	34	0.052	--	0	---
Notropis stramineus Sand shiner	195	0.321	Moderately Intolerant	0	---
Ericymba buccata Silverjaw minnow	47	0.160	--	0	---
Pimephales notatus Bluntnose minnow	428	0.532	Highly Tolerant	0	---
Campostoma anomalum Central stoneroller minnow	428	1.954	--	0	---
Micropterus dolomieu Smallmouth bass	26	0.690	Moderately Intolerant	0	---
Lepomis cyanellus Green sunfish	1	0.004	Highly Tolerant	0	---
Etheostoma blenniodes Greenside darter	129	0.368	Moderately Intolerant	0	---
Etheostoma caeruleum Rainbow darter	43	0.050	Moderately Intolerant	0	---

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Etheostoma nigrum Johnny darter	11	0.014	--	0	---
Neogobius melanostomus Round goby	34	0.064	--	0	---
Totals	<u>1824</u>	<u>11.264</u>		<u>0</u>	

*DELT anomalies were observed on	0.00	% of the fish collected.
Index of Biotic Integrity (IBI) =	36	(Marginally Good)
Modified Index of Well-Being (MIwb) =	9.6	(Exceptional)
Shannon Diversity Index, no.	2.216	
Shannon Diversity Index, wt.	2.078	
N	2348	
B	16.6	