

**Rocky River East Branch Upstream of Ridge Road**

**August 14, 2020**

**River Mile: 17.50**

**Station ID: T01W38**

**Collection Method: Longline Electrofishing**

**Drainage Area: 34.4 miles<sup>2</sup>**

**Collection Distance: 0.2 km**

<b>Code</b>	<b>Species</b>	<b>Number</b>	<b>Weight (kg)</b>	<b>Pollution Tolerance</b>	<b>DELT #</b>	<b>Anomalies Description</b>
40-010	<i>Moxostoma erythrurum</i> Golden redhorse	6	0.09	Moderately Intolerant	0	---
40-015	<i>Hypentelium nigricans</i> Northern hog sucker	38	1.2	Moderately Intolerant	0	---
40-016	<i>Catostomus commersonii</i> Common white sucker	15	0.37	Highly Tolerant	0	---
43-005	<i>Nocomis micropogon</i> River Chub	3	0.035	Intolerant	0	---
43-011	<i>Rhinichthys atratulus</i> Blacknose dace	8	0.016	Highly Tolerant	0	---
43-013	<i>Semotilus atromaculatus</i> Creek chub	58	0.439	Highly Tolerant	0	---
43-026	<i>Notropis cornutus</i> Common shiner	63	0.36	--	0	---
43-032	<i>Cyprinella spiloptera</i> Spotfin shiner	57	0.085	--	0	---
43-034	<i>Notropis stramineus</i> Sand shiner	17	0.04	Moderately Intolerant	0	---
43-035	<i>Notropis volucellus</i> Mimic Shiner	1	0.003	Common Intolerant	0	---
43-039	<i>Ericymba buccata</i> Silverjaw minnow	96	0.125	--	0	---
43-043	<i>Pimephales notatus</i> Bluntnose minnow	130	0.19	Highly Tolerant	0	---
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	63	0.163	--	0	---
47-004	<i>Ictalurus natalis</i> Yellow bullhead	2	0.003	Highly Tolerant	0	---
77-006	<i>Micropterus salmoides</i>	5	0.065	--	0	---

**Rocky River East Branch Upstream of Ridge Road**

**August 14, 2020**

**River Mile: 17.50**

Largemouth bass

77-008	<i>Lepomis cyanellus</i> Green sunfish	1	0.02	Highly Tolerant	0	---
77-009	<i>Lepomis macrochirus</i> Northern bluegill sunfish	2	0.022	Moderately Tolerant	0	---
80-005	<i>Etheostoma maculata</i> Blackside darter	3	0.021	--	0	---
80-014	<i>Etheostoma nigrum</i> Johnny darter	1	0.002	--	0	---
80-015	<i>Etheostoma blenniodes</i> Greenside darter	13	0.032	Moderately Intolerant	0	---
80-022	<i>Etheostoma caeruleum</i> Rainbow darter	8	0.025	Moderately Intolerant	0	---
80-024	<i>Etheostoma flabellare</i> Barred Fantail darter	1	0.003	--	0	---
87-001	<i>Neogobius melanostomus</i> Round goby	13	0.034	--	0	---
	Totals	<u>604</u>	<u>3.343</u>		<u>0</u>	

*DELTA anomalies were observed on	0.00 % of the fish collected.
Index of Biotic Integrity (IBI) =	40 (Good)
Modified Index of Well-Being (MIwb) =	8.4 (Good)
Shannon Diversity Index, no.	2.407
Shannon Diversity Index, wt.	2.191
N	565.5
B	3.407

**Rocky River East Branch Upstream of Ridge Road**

**September 28, 2020**

**River Mile: 17.50**

**Station ID: T01W38**

**Collection Method: Longline Electrofishing**

**Drainage Area: 34.4 miles<sup>2</sup>**

**Collection Distance: 0.2 km**

<b>Code</b>	<b>Species</b>	<b>Number</b>	<b>Weight (kg)</b>	<b>Pollution Tolerance</b>	<b>DELT Anomalies #</b>	<b>Description</b>
20-003	<i>Dorosoma cepedianum</i> Eastern gizzard shad	1	0.02	--	0	---
40-010	<i>Moxostoma erythrurum</i> Golden redhorse	24	0.76	Moderately Intolerant	0	---
40-015	<i>Hypentelium nigricans</i> Northern hog sucker	27	0.652	Moderately Intolerant	0	---
40-016	<i>Catostomus commersonii</i> Common white sucker	13	0.425	Highly Tolerant	0	---
43-005	<i>Nocomis micropogon</i> River Chub	2	0.042	Intolerant	0	---
43-011	<i>Rhinichthys atratulus</i> Blacknose dace	2	0.004	Highly Tolerant	0	---
43-013	<i>Semotilus atromaculatus</i> Creek chub	23	0.105	Highly Tolerant	0	---
43-026	<i>Notropis cornutus</i> Common shiner	72	0.26	--	0	---
43-032	<i>Cyprinella spiloptera</i> Spotfin shiner	53	0.082	--	0	---
43-034	<i>Notropis stramineus</i> Sand shiner	29	0.043	Moderately Intolerant	0	---
43-039	<i>Ericymba buccata</i> Silverjaw minnow	77	0.088	--	0	---
43-043	<i>Pimephales notatus</i> Bluntnose minnow	316	0.442	Highly Tolerant	0	---
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	41	0.101	--	0	---
77-003	<i>Ambloplites rupestris</i> Northern rockbass	2	0.055	--	0	---
77-006	<i>Micropterus salmoides</i>	1	0.012	--	0	---

**Rocky River East Branch Upstream of Ridge Road  
September 28, 2020  
River Mile: 17.50**

Largemouth bass

77-009	<i>Lepomis macrochirus</i> Northern bluegill sunfish	1	0.004	Moderately Tolerant	0	---
80-005	<i>Etheostoma maculata</i> Blackside darter	5	0.02	--	0	---
80-014	<i>Etheostoma nigrum</i> Johnny darter	2	0.01	--	0	---
80-015	<i>Etheostoma blenniodes</i> Greenside darter	4	0.02	Moderately Intolerant	0	---
80-022	<i>Etheostoma caeruleum</i> Rainbow darter	10	0.01	Moderately Intolerant	0	---
80-024	<i>Etheostoma flabellare</i> Barred Fantail darter	1	0.002	--	0	---
87-001	<i>Neogobius melanostomus</i> Round goby	16	0.024	--	0	---
Totals		<u>722</u>	<u>3.181</u>		<u>0</u>	

*DELT anomalies were observed on	0.00	% of the fish collected.
Index of Biotic Integrity (IBI) =	34	(Marginally Good)
Modified Index of Well-Being (MIwb) =	8.0	(Good)
Shannon Diversity Index, no.	2.041	
Shannon Diversity Index, wt.	2.227	
N	528	
B	3.272	

**Rocky River East Branch Downstream of Valley Parkway**

**July 6, 2020**

**River Mile: 6.25**

**T01W59**

**Collection Method: Longline Electrofishing**

**Drainage Area: 63.3 miles<sup>2</sup>**

**Collection Distance: 0.2 km**

<b>Code</b>	<b>Species</b>	<b>Number</b>	<b>Weight (kg)</b>	<b>Pollution Tolerance</b>	<b>DELT #</b>	<b>Anomalies Description</b>
40-015	<i>Hypentelium nigricans</i> Northern hog sucker	12	0.55	Moderately Intolerant	0	---
40-016	<i>Catostomus commersonii</i> Common white sucker	33	1.165	Highly Tolerant	0	---
43-001	<i>Cyprinus carpio</i> Common carp	2	0.13	Highly Tolerant	0	---
43-013	<i>Semotilus atromaculatus</i> Creek chub	15	0.1	Highly Tolerant	0	---
43-026	<i>Notropis cornutus</i> Common shiner	20	0.235	--	0	---
43-032	<i>Cyprinella spiloptera</i> Spotfin shiner	46	0.12	--	0	---
43-033	<i>Notropis dorsalis</i> Bigmouth Shiner	3	0.006	--	0	---
43-034	<i>Notropis stramineus</i> Sand shiner	101	0.18	Moderately Intolerant	0	---
43-039	<i>Ericymba buccata</i> Silverjaw minnow	8	0.021	--	0	---
43-043	<i>Pimephales notatus</i> Bluntnose minnow	1166	2.095	Highly Tolerant	1	Deformity
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	58	0.75	--	0	---
47-004	<i>Ictalurus natalis</i> Yellow bullhead	15	0.955	Highly Tolerant	0	---
77-003	<i>Ambloplites rupestris</i> Northern rockbass	12	0.87	--	0	---
77-006	<i>Micropterus salmoides</i> Largemouth bass	2	0.13	--	0	---
77-008	<i>Lepomis cyanellus</i>	23	0.27	Highly	0	---

**Rocky River East Branch Downstream of Valley Parkway  
July 6, 2020**

**River Mile: 6.25**

Green sunfish				Tolerant		
77-009	<i>Lepomis macrochirus</i> Northern bluegill sunfish	10	0.1	Moderately Tolerant	0	---
77-013	<i>Lepomis gibbosus</i> Pumpkinseed sunfish	5	0.145	Moderately Tolerant	0	---
80-005	<i>Etheostoma maculata</i> Blackside darter	1	0.001	--	0	---
80-014	<i>Etheostoma nigrum</i> Johnny darter	23	0.04	--	0	---
80-015	<i>Etheostoma blenniodes</i> Greenside darter	28	0.13	Moderately Intolerant	0	---
80-022	<i>Etheostoma caeruleum</i> Rainbow darter	18	0.048	Moderately Intolerant	0	---
87-001	<i>Neogobius melanostomus</i> Round goby	182	0.574	--	0	---
Totals		<u>1783</u>	<u>8.615</u>		<u>1</u>	

*DELT anomalies were observed on	0.06 % of the fish collected.
Index of Biotic Integrity (IBI) =	30 (Fair)
Modified Index of Well-Being (MIwb) =	7.8 (Marginally Good)
Shannon Diversity Index, no.	1.475
Shannon Diversity Index, wt.	2.442
N	520.5
B	4.989

**Rocky River East Branch Downstream of Valley Parkway**

**September 18, 2020**

**River Mile: 6.25**

**Station ID: T01W59**

**Collection Method: Longline Electrofishing**

**Drainage Area: 63.3 miles<sup>2</sup>**

**Collection Distance: 0.2 km**

<b>Code</b>	<b>Species</b>	<b>Number</b>	<b>Weight (kg)</b>	<b>Pollution Tolerance</b>	<b>DELT #</b>	<b>Anomalies Description</b>
40-010	<i>Moxostoma erythrurum</i> Golden redhorse	5	0.038	Moderately Intolerant	0	---
40-015	<i>Hypentelium nigricans</i> Northern hog sucker	21	1.35	Moderately Intolerant	0	---
40-016	<i>Catostomus commersonii</i> Common white sucker	41	2.67	Highly Tolerant	0	---
43-011	<i>Rhinichthys atratulus</i> Blacknose dace	1	0.001	Highly Tolerant	0	---
43-013	<i>Semotilus atromaculatus</i> Creek chub	70	0.183	Highly Tolerant	0	---
43-026	<i>Notropis cornutus</i> Common shiner	109	0.567	--	0	---
43-032	<i>Cyprinella spiloptera</i> Spotfin shiner	65	0.102	--	0	---
43-033	<i>Notropis dorsalis</i> Bigmouth Shiner	130	0.135	--	0	---
43-034	<i>Notropis stramineus</i> Sand shiner	66	0.28	Moderately Intolerant	0	---
43-035	<i>Notropis volucellus</i> Mimic Shiner	3	0.007	Common Intolerant	0	---
43-039	<i>Ericymba buccata</i> Silverjaw minnow	53	0.095	--	0	---
43-043	<i>Pimephales notatus</i> Bluntnose minnow	2044	2.651	Highly Tolerant	1	Deformity
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	253	2.821	--	0	---
47-004	<i>Ictalurus natalis</i> Yellow bullhead	5	0.35	Highly Tolerant	0	---
77-003	<i>Ambloplites rupestris</i>	5	0.64	--	0	---

**Rocky River East Branch Downstream of Valley Parkway  
September 18, 2020  
River Mile: 6.25**

	Northern rockbass					
77-006	<i>Micropterus salmoides</i> Largemouth bass	19	2.74	--	1	Lesion
77-008	<i>Lepomis cyanellus</i> Green sunfish	9	0.075	Highly Tolerant	0	---
77-009	<i>Lepomis macrochirus</i> Northern bluegill sunfish	13	0.22	Moderately Tolerant	0	---
77-013	<i>Lepomis gibbosus</i> Pumpkinseed sunfish	3	0.11	Moderately Tolerant	0	---
77-016	<i>HYBRID</i> Green SF X Pumpkinseed	3	0.035	--	0	---
80-014	<i>Etheostoma nigrum</i> Johnny darter	19	0.031	--	0	---
80-015	<i>Etheostoma blenniodes</i> Greenside darter	13	0.073	Moderately Intolerant	0	---
80-022	<i>Etheostoma caeruleum</i> Rainbow darter	7	0.015	Moderately Intolerant	0	---
87-001	<i>Neogobius melanostomus</i> Round goby	193	0.357	--	0	---
	Totals	<u>3150</u>	<u>15.546</u>		<u>2</u>	

*DELT anomalies were observed on	0.06	% of the fish collected.
Index of Biotic Integrity (IBI) =	32	(Fair)
Modified Index of Well-Being (MIwb) =	8.6	(Good)
Shannon Diversity Index, no.	1.497	
Shannon Diversity Index, wt.	2.284	
N	1176	
B	13.84	



**Rocky River East Branch Upstream of Metropark Valley Parkway**

**June 19, 2020**

**River Mile: 0.15**

**Station ID: T01P31**

**Collection Method: Longline Electrofishing**

**Drainage Area: 76.8 miles<sup>2</sup>**

**Collection Distance: 0.2 km**

<b>Code</b>	<b>Species</b>	<b>Number</b>	<b>Weight (kg)</b>	<b>Pollution Tolerance</b>	<b>#</b>	<b>DELT Anomalies Description</b>
40-015	<i>Hypentelium nigricans</i> Northern hog sucker	2	0.042	Moderately Intolerant	0	---
40-016	<i>Catostomus commersonii</i> Common white sucker	4	0.096	Highly Tolerant	0	---
43-013	<i>Semotilus atromaculatus</i> Creek chub	18	0.17	Highly Tolerant	0	---
43-022	<i>Notropis rubellus</i> Rosyface Shiner	53	0.1	Intolerant	0	---
43-026	<i>Notropis cornutus</i> Common shiner	3	0.021	--	0	---
43-025	<i>Notropis chrysocephalus</i> Striped shiner	47	0.54	--	0	---
43-032	<i>Cyprinella spiloptera</i> Spotfin shiner	53	0.168	--	0	---
43-034	<i>Notropis stramineus</i> Sand shiner	371	0.672	Moderately Intolerant	0	---
43-039	<i>Ericymba buccata</i> Silverjaw minnow	5	0.026	--	0	---
43-043	<i>Pimephales notatus</i> Bluntnose minnow	199	0.817	Highly Tolerant	0	---
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	34	0.399	--	0	---
47-002	<i>Ictalurus punctatus</i> Channel catfish	7	0.115	--	0	---
47-004	<i>Ictalurus natalis</i> Yellow bullhead	3	0.051	Highly Tolerant	0	---
47-008	<i>Noturus flavus</i> Stonecat Madtom	29	0.305	Intolerant	0	---
77-003	<i>Ambloplites rupestris</i>	1	0.037	--	0	---

**Rocky River East Branch Upstream of Metropark Valley Parkway  
June 19, 2020  
River Mile: 0.15**

Northern rockbass

77-006	<i>Micropterus salmoides</i> Largemouth bass	4	0.053	--	0	---
77-008	<i>Lepomis cyanellus</i> Green sunfish	12	0.394	Highly Tolerant	0	---
77-009	<i>Lepomis macrochirus</i> Northern bluegill sunfish	11	0.115	Moderately Tolerant	0	---
87-001	<i>Neogobius melanostomus</i> Round goby	79	0.91	--	0	---
Totals		<u>935</u>	<u>5.031</u>		<u>0</u>	

*DELT anomalies were observed on	0.00	% of the fish collected.
Index of Biotic Integrity (IBI) =	34	(Marginally Good)
Modified Index of Well-Being (MIwb) =	8.5	(Good)
Shannon Diversity Index, no.	1.962	
Shannon Diversity Index, wt.	2.458	
N	930	
B	3.89	

**Rocky River East Branch Upstream of valley Parkway**

**September 17, 2020**

**River Mile: 0.15**

**Station ID: T01P31**

**Collection Method: Longline Electrofishing**

**Drainage Area: 76.8 miles<sup>2</sup>**

**Collection Distance: 0.2 km**

<b>Code</b>	<b>Species</b>	<b>Number</b>	<b>Weight (kg)</b>	<b>Pollution Tolerance</b>	<b>#</b>	<b>DELT Anomalies Description</b>
40-005	<i>Carpionodes cyprinus</i> Central quillback carpsucker	1	0.02	--	0	---
40-015	<i>Hypentelium nigricans</i> Northern hog sucker	7	0.05	Moderately Intolerant	0	---
40-016	<i>Catostomus commersonii</i> Common white sucker	4	0.165	Highly Tolerant	0	---
43-013	<i>Semotilus atromaculatus</i> Creek chub	9	0.062	Highly Tolerant	0	---
43-022	<i>Notropis rubellus</i> Rosyface Shiner	13	0.045	Intolerant	0	---
43-026	<i>Notropis cornutus</i> Common shiner	109	0.16	--	0	---
43-025	<i>Notropis chrysocephalus</i> Striped shiner	157	0.49	--	0	---
43-032	<i>Cyprinella spiloptera</i> Spotfin shiner	95	0.31	--	0	---
43-033	<i>Notropis dorsalis</i> Bigmouth Shiner	55	0.07	--	0	---
43-034	<i>Notropis stramineus</i> Sand shiner	246	0.346	Moderately Intolerant	0	---
43-035	<i>Notropis volucellus</i> Mimic Shiner	2	0.004	Common Intolerant	0	---
43-039	<i>Ericymba buccata</i> Silverjaw minnow	22	0.05	--	0	---
43-043	<i>Pimephales notatus</i> Bluntnose minnow	91	0.135	Highly Tolerant	0	---
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	163	0.71	--	0	---
47-002	<i>Ictalurus punctatus</i>	2	0.06	--	1	Lesion

**Rocky River East Branch Upstream of valley Parkway  
September 17, 2020**

**River Mile: 0.15**

Channel catfish

47-004	<i>Ictalurus natalis</i> Yellow bullhead	7	0.05	Highly Tolerant	0	---
47-008	<i>Noturus flavus</i> Stonecat Madtom	25	0.214	Intolerant	0	---
77-003	<i>Ambloplites rupestris</i> Northern rockbass	1	0.004	--	0	---
77-004	<i>Micropterus dolomieu</i> Smallmouth bass	2	0.059	Moderately Intolerant	0	---
77-006	<i>Micropterus salmoides</i> Largemouth bass	1	0.004	--	0	---
77-008	<i>Lepomis cyanellus</i> Green sunfish	28	0.11	Highly Tolerant	0	---
77-009	<i>Lepomis macrochirus</i> Northern bluegill sunfish	17	0.025	Moderately Tolerant	0	---
80-014	<i>Etheostoma nigrum</i> Johnny darter	2	0.004	--	0	---
80-015	<i>Etheostoma blenniodes</i> Greenside darter	25	0.081	Moderately Intolerant	0	---
80-022	<i>Etheostoma caeruleum</i> Rainbow darter	1	0.002	Moderately Intolerant	0	---
87-001	<i>Neogobius melanostomus</i> Round goby	59	0.24	--	0	---
34-001	<i>Umbra limi</i> Central Mudminnow	1	0.005	Tolerant	0	---
	Totals	<u>1145</u>	<u>3.475</u>		<u>1</u>	

*DELT anomalies were observed on	0.09 % of the fish collected.
Index of Biotic Integrity (IBI) =	46 (Very Good)
Modified Index of Well-Being (MIwb) =	9.4 (Exceptional)
Shannon Diversity Index, no.	2.453
Shannon Diversity Index, wt.	2.651
N	1419
B	4.062