

**Rocky River Downstream of Cedar Point Road**

**June 30, 2020**

**River Mile: 11.85**

**Station ID: T01W19**

**Collection Method: Longline Electrofishing**

**Drainage Area: 267 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>Carpiodes cyprinus</i> Central quillback carpsucker	1	0.002	--	0	---
40-010	<i>Moxostoma erythrurum</i> Golden redhorse	7	2.61	Moderately Intolerant	2	Deformity & lesion
40-015	<i>Hypentelium nigricans</i> Northern hog sucker	9	1.772	Moderately Intolerant	0	---
40-016	<i>Catostomus commersonii</i> Common white sucker	87	6.975	Highly Tolerant	0	---
43-001	<i>Cyprinus carpio</i> Common carp	13	29.937	Highly Tolerant	0	---
43-013	<i>Semotilus atromaculatus</i> Creek chub	1	0.02	Highly Tolerant	0	---
43-022	<i>Notropis rubellus</i> Rosyface Shiner	1	0.005	Intolerant	0	---
43-026	<i>Notropis cornutus</i> Common shiner	27	0.315	--	0	---
43-025	<i>Notropis chrysocephalus</i> Striped shiner	13	0.195	--	0	---
43-032	<i>Cyprinella spiloptera</i> Spotfin shiner	65	0.42	--	0	---
43-034	<i>Notropis stramineus</i> Sand shiner	66	0.158	Moderately Intolerant	0	---
43-043	<i>Pimephales notatus</i> Bluntnose minnow	26	0.12	Highly Tolerant	0	---
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	76	0.163	--	0	---
47-002	<i>Ictalurus punctatus</i> Channel catfish	1	0.04	--	0	---
47-004	<i>Ictalurus natalis</i>	7	0.21	Highly	0	---

**Rocky River Downstream of Cedar Point Road**

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**River Mile: 11.85**

	Yellow bullhead			Tolerant		
47-008	<i>Noturus flavus</i> Stonecat Madtom	13	0.475	Intolerant	0	---
77-004	<i>Micropterus dolomieu</i> Smallmouth bass	72	0.22	Moderately Intolerant	0	---
77-006	<i>Micropterus salmoides</i> Largemouth bass	1	0.01	--	0	---
77-007	<i>Lepomis gulosus</i> Warmouth sunfish	1	0.02	--	0	---
77-008	<i>Lepomis cyanellus</i> Green sunfish	26	0.255	Highly Tolerant	0	---
77-009	<i>Lepomis macrochirus</i> Northern bluegill sunfish	38	2.7	Moderately Tolerant	0	---
77-013	<i>Lepomis gibbosus</i> Pumpkinseed sunfish	2	0.019	Moderately Tolerant	0	---
77-016	<i>HYBRID</i> Green SF X Pumpkinseed	3	0.066	--	0	---
80-005	<i>Etheostoma maculata</i> Blackside darter	1	0.003	--	0	---
80-015	<i>Etheostoma blenniodes</i> Greenside darter	28	0.06	Moderately Intolerant	0	---
80-022	<i>Etheostoma caeruleum</i> Rainbow darter	2	0.008	Moderately Intolerant	0	---
87-001	<i>Neogobius melanostomus</i> Round goby	5	0.029	--	0	---
43-052	<i>HYBRID</i> Striped SH X Rosyface SH	1	0.02	--	0	---
	Totals	<u>593</u>	<u>46.827</u>		<u>2</u>	

*DELTA anomalies were observed on	0.34	% of the fish collected.
Index of Biotic Integrity (IBI) =	40	(Good)
Modified Index of Well-Being (MIwb) =	8.5	(Good)
Shannon Diversity Index, no.	2.634	
Shannon Diversity Index, wt.	1.343	
N	636	
B	13.79	

**Rocky River Downstream of Cedar Point Road**

**September 21, 2020**

**River Mile: 11.85**

**Station ID: T01W19**

**Collection Method: Roller Pram Electrofishing**

**Drainage Area: 267 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	2	1.183	Moderately Intolerant	0	---
40-015	<i>Hypentelium nigricans</i> Northern hog sucker	8	1.19	Moderately Intolerant	0	---
40-016	<i>Catostomus commersonii</i> Common white sucker	1	0.52	Highly Tolerant	0	---
43-001	<i>Cyprinus carpio</i> Common carp	15	28.183	Highly Tolerant	1	Lesion
43-013	<i>Semotilus atromaculatus</i> Creek chub	1	0.003	Highly Tolerant	0	---
43-022	<i>Notropis rubellus</i> Rosyface Shiner	12	0.018	Intolerant	0	---
43-026	<i>Notropis cornutus</i> Common shiner	59	0.11	--	0	---
43-025	<i>Notropis chrysocephalus</i> Striped shiner	22	0.05	--	0	---
43-032	<i>Cyprinella spiloptera</i> Spotfin shiner	57	0.153	--	0	---
43-034	<i>Notropis stramineus</i> Sand shiner	194	0.165	Moderately Intolerant	0	---
43-035	<i>Notropis volucellus</i> Mimic Shiner	2	0.007	Common Intolerant	0	---
43-043	<i>Pimephales notatus</i> Bluntnose minnow	105	0.245	Highly Tolerant	0	---
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	93	0.527	--	0	---
47-008	<i>Noturus flavus</i> Stonecat Madtom	14	0.459	Intolerant	0	---
77-003	<i>Ambloplites rupestris</i>	2	0.148	--	0	---

**Rocky River Downstream of Cedar Point Road**  
**September 21, 2020**  
**River Mile: 11.85**

Northern rockbass

77-004	<i>Micropterus dolomieu</i> Smallmouth bass	21	3.365	Moderately Intolerant	1	Deformity
77-006	<i>Micropterus salmoides</i> Largemouth bass	1	0.003	--	0	---
77-008	<i>Lepomis cyanellus</i> Green sunfish	12	0.17	Highly Tolerant	0	---
77-009	<i>Lepomis macrochirus</i> Northern bluegill sunfish	17	0.022	Moderately Tolerant	0	---
77-013	<i>Lepomis gibbosus</i> Pumpkinseed sunfish	1	0.003	Moderately Tolerant	0	---
80-014	<i>Etheostoma nigrum</i> Johnny darter	1	0.002	--	0	---
80-015	<i>Etheostoma blenniodes</i> Greenside darter	30	0.08	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	8	0.058	--	0	---
Totals		<u>679</u>	<u>36.666</u>		<u>2</u>	

*DELTA anomalies were observed on	0.29 % of the fish collected.
Index of Biotic Integrity (IBI) =	44 (Good)
Modified Index of Well-Being (MIwb) =	7.9 (Marginally Good)
Shannon Diversity Index, no.	2.309
Shannon Diversity Index, wt.	1.011
N	805.5
B	11.23

**Rocky River Downstream of Abram Creek**  
**August 24, 2020**  
**River Mile: 10.20**  
**Station ID: T01W15**  
**Collection Method: Longline Electrofishing**  
**Drainage Area: 280 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	3	0.025	Moderately Intolerant	0	---
40-016	<i>Catostomus commersonii</i> Common white sucker	9	0.105	Highly Tolerant	0	---
43-013	<i>Semotilus atromaculatus</i> Creek chub	13	0.04	Highly Tolerant	0	---
43-022	<i>Notropis rubellus</i> Rosyface Shiner	6	0.012	Intolerant	0	---
43-026	<i>Notropis cornutus</i> Common shiner	53	0.105	--	0	---
43-025	<i>Notropis chrysocephalus</i> Striped shiner	2	0.005	--	0	---
43-032	<i>Cyprinella spiloptera</i> Spotfin shiner	132	0.418	--	0	---
43-034	<i>Notropis stramineus</i> Sand shiner	118	0.15	Moderately Intolerant	0	---
43-035	<i>Notropis volucellus</i> Mimic Shiner	6	0.02	Common Intolerant	0	---
43-039	<i>Ericymba buccata</i> Silverjaw minnow	4	0.01	--	0	---
43-043	<i>Pimephales notatus</i> Bluntnose minnow	107	0.385	Highly Tolerant	0	---
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	7	0.039	--	0	---
47-002	<i>Ictalurus punctatus</i> Channel catfish	1	0.005	--	0	---
47-004	<i>Ictalurus natalis</i> Yellow bullhead	13	0.073	Highly Tolerant	0	---
47-008	<i>Noturus flavus</i>	9	0.212	Intolerant	0	---

**Rocky River Downstream of Abram Creek**

**August 24, 2020**

**River Mile: 10.20**

Stonecat Madtom

77-003	<i>Ambloplites rupestris</i> Northern rockbass	50	0.2	--	0	---
77-004	<i>Micropterus dolomieu</i> Smallmouth bass	13	0.505	Moderately Intolerant	0	---
77-008	<i>Lepomis cyanellus</i> Green sunfish	23	0.1	Highly Tolerant	0	---
77-009	<i>Lepomis macrochirus</i> Northern bluegill sunfish	10	0.034	Moderately Tolerant	0	---
80-014	<i>Etheostoma nigrum</i> Johnny darter	7	0.01	--	0	---
80-015	<i>Etheostoma blenniodes</i> Greenside darter	50	0.195	Moderately Intolerant	0	---
80-022	<i>Etheostoma caeruleum</i> Rainbow darter	5	0.005	Moderately Intolerant	0	---
87-001	<i>Neogobius melanostomus</i> Round goby	168	0.8	--	0	---
	Totals	<u>809</u>	<u>3.453</u>		<u>0</u>	

*DELT anomalies were observed on	0.00 % of the fish collected.
Index of Biotic Integrity (IBI) =	40 (Good)
Modified Index of Well-Being (MIwb) =	8.7 (Good)
Shannon Diversity Index, no.	2.405
Shannon Diversity Index, wt.	2.447
N	714
B	2.925

**Rocky River Upstream of Puritas Avenue**  
**July 14, 2020**  
**River Mile: 8.30**  
**Station ID: 501810**  
**Collection Method: Longline Electrofishing**  
**Drainage Area: 282 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>Carpiodes cyprinus</i> Central quillback carpsucker	12	0.05	--	0	---
43-001	<i>Cyprinus carpio</i> Common carp	2	0.01	Highly Tolerant	0	---
43-022	<i>Notropis rubellus</i> Rosyface Shiner	6	0.04	Intolerant	0	---
43-026	<i>Notropis cornutus</i> Common shiner	40	0.049	--	0	---
43-032	<i>Cyprinella spiloptera</i> Spotfin shiner	71	0.384	--	0	---
43-034	<i>Notropis stramineus</i> Sand shiner	80	0.183	Moderately Intolerant	0	---
43-039	<i>Ericymba buccata</i> Silverjaw minnow	7	0.02	--	0	---
43-042	<i>Pimephales promelas</i> Northern fathead minnow	1	0.004	Highly Tolerant	0	---
43-043	<i>Pimephales notatus</i> Bluntnose minnow	14	0.075	Highly Tolerant	0	---
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	48	0.1	--	0	---
47-002	<i>Ictalurus punctatus</i> Channel catfish	1	0.039	--	0	---
47-004	<i>Ictalurus natalis</i> Yellow bullhead	17	0.092	Highly Tolerant	1	Lesion
47-008	<i>Noturus flavus</i> Stonecat Madtom	36	0.655	Intolerant	0	---
77-003	<i>Ambloplites rupestris</i> Northern rockbass	11	0.18	--	0	---
77-004	<i>Micropterus dolomieu</i>	42	0.317	Moderately	0	---

**Rocky River Upstream of Puritas Avenue**

**July 14, 2020**

**River Mile: 8.30**

	Smallmouth bass			Intolerant		
77-009	<i>Lepomis macrochirus</i> Northern bluegill sunfish	2	0.065	Moderately Tolerant	0	---
80-014	<i>Etheostoma nigrum</i> Johnny darter	2	0.005	--	0	---
80-015	<i>Etheostoma blenniodes</i> Greenside darter	53	0.281	Moderately Intolerant	0	---
80-022	<i>Etheostoma caeruleum</i> Rainbow darter	5	0.011	Moderately Intolerant	0	---
87-001	<i>Neogobius melanostomus</i> Round goby	68	0.55	--	0	---
	<b>Totals</b>	<u><b>518</b></u>	<u><b>3.110</b></u>		<u><b>1</b></u>	

*DELT anomalies were observed on	0.19	% of the fish collected.
Index of Biotic Integrity (IBI) =	42	(Good)
Modified Index of Well-Being (MIwb) =	8.7	(Good)
Shannon Diversity Index, no.	2.49	
Shannon Diversity Index, wt.	2.392	
N	624	
B	3.569	



**Rocky River Upstream of Puritas Avenue**  
**September 21, 2020**  
**River Mile: 8.30**  
**Station ID: 501810**  
**Collection Method: Longline Electrofishing**  
**Drainage Area: 282 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>Carpiodes cyprinus</i> Central quillback carpsucker	77	1.55	--	0	---
40-010	<i>Moxostoma erythrurum</i> Golden redhorse	1	0.015	Moderately Intolerant	0	---
40-011	<i>Moxostoma macrolepidotum</i> Shorthead redhorse	1	0.032	Moderately Intolerant	0	---
40-015	<i>Hypentelium nigricans</i> Northern hog sucker	4	0.57	Moderately Intolerant	0	---
40-016	<i>Catostomus commersonii</i> Common white sucker	7	0.215	Highly Tolerant	0	---
43-013	<i>Semotilus atromaculatus</i> Creek chub	7	0.06	Highly Tolerant	0	---
43-022	<i>Notropis rubellus</i> Rosyface Shiner	91	0.15	Intolerant	0	---
43-026	<i>Notropis cornutus</i> Common shiner	124	0.39	--	0	---
43-025	<i>Notropis chrysocephalus</i> Striped shiner	36	0.15	--	0	---
43-032	<i>Cyprinella spiloptera</i> Spotfin shiner	372	1.39	--	0	---
43-033	<i>Notropis dorsalis</i> Bigmouth Shiner	2	0.005	--	0	---
43-034	<i>Notropis stramineus</i> Sand shiner	207	0.392	Moderately Intolerant	0	---
43-035	<i>Notropis volucellus</i> Mimic Shiner	4	0.008	Common Intolerant	0	---
43-039	<i>Ericymba buccata</i> Silverjaw minnow	3	0.02	--	0	---
43-043	<i>Pimephales notatus</i>	99	0.6	Highly	0	---

**Rocky River Upstream of Puritas Avenue  
September 21, 2020**

**River Mile: 8.30**

	Bluntnose minnow			Tolerant		
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	131	1.07	--	0	---
47-008	<i>Noturus flavus</i> Stonecat Madtom	12	0.27	Intolerant	0	---
77-003	<i>Ambloplites rupestris</i> Northern rockbass	6	0.033	--	0	---
77-004	<i>Micropterus dolomieu</i> Smallmouth bass	13	0.81	Moderately Intolerant	0	---
77-009	<i>Lepomis macrochirus</i> Northern bluegill sunfish	2	0.004	Moderately Tolerant	0	---
80-014	<i>Etheostoma nigrum</i> Johnny darter	3	0.005	--	0	---
80-015	<i>Etheostoma blenniodes</i> Greenside darter	112	0.39	Moderately Intolerant	0	---
80-022	<i>Etheostoma caeruleum</i> Rainbow darter	10	0.042	Moderately Intolerant	0	---
87-001	<i>Neogobius melanostomus</i> Round goby	41	0.3	--	0	---
	<b>Totals</b>	<u>1365</u>	<u>8.471</u>		<u>0</u>	

*DELT anomalies were observed on	0.00	% of the fish collected.
Index of Biotic Integrity (IBI) =	50	(Exceptional)
Modified Index of Well-Being (MIwb) =	9.8	(Exceptional)
Shannon Diversity Index, no.	2.313	
Shannon Diversity Index, wt.	2.501	
N	1817	
B	10.94	

**Rocky River Near Tyler Barn**  
**July 2, 2020**  
**River Mile: 4.80**  
**Station ID: T01W07**  
**Collection Method: Longline Electrofishing**  
**Drainage Area: 289 miles<sup>2</sup>**  
**Collection Distance: 0.2 km**

Code	Species	Number	Weight (kg)	Pollution Tolerance	#	DELTA Anomalies Description
10-004	<i>Lepisosteus osseus</i> Longnose Gar	1	0.008	--	0	---
40-005	<i>Carpionodes cyprinus</i> Central quillback carpsucker	1	0.008	--	0	---
40-015	<i>Hypentelium nigricans</i> Northern hog sucker	1	0.46	Moderately Intolerant	0	---
40-016	<i>Catostomus commersonii</i> Common white sucker	12	0.75	Highly Tolerant	0	---
43-002	<i>Carassius auratus</i> Goldfish	1	0.095	Highly Tolerant	0	---
43-003	<i>Notemigonus crysoleucas</i> Golden shiner	1	0.011	Highly Tolerant	0	---
43-032	<i>Cyprinella spiloptera</i> Spotfin shiner	90	0.332	--	0	---
43-034	<i>Notropis stramineus</i> Sand shiner	15	0.036	Moderately Intolerant	0	---
43-035	<i>Notropis volucellus</i> Mimic Shiner	15	0.032	Common Intolerant	0	---
43-039	<i>Ericymba buccata</i> Silverjaw minnow	1	0.005	--	0	---
43-043	<i>Pimephales notatus</i> Bluntnose minnow	11	0.03	Highly Tolerant	0	---
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	7	0.017	--	0	---
47-002	<i>Ictalurus punctatus</i> Channel catfish	5	2.84	--	0	---
47-004	<i>Ictalurus natalis</i> Yellow bullhead	15	1.86	Highly Tolerant	1	Lesion
47-005	<i>Ictalurus nebulosus</i>	1	0.17	Highly	1	Lesion

**Rocky River Near Tyler Barn**  
**July 2, 2020**  
**River Mile: 4.80**

	Brown bullhead			Tolerant		
47-008	<i>Noturus flavus</i> Stonecat Madtom	20	0.52	Intolerant	0	---
77-003	<i>Ambloplites rupestris</i> Northern rockbass	13	0.915	--	1	Erosion
77-004	<i>Micropterus dolomieu</i> Smallmouth bass	25	0.035	Moderately Intolerant	0	---
77-006	<i>Micropterus salmoides</i> Largemouth bass	2	0.005	--	0	---
77-007	<i>Lepomis gulosus</i> Warmouth sunfish	1	0.025	--	0	---
77-008	<i>Lepomis cyanellus</i> Green sunfish	19	0.168	Highly Tolerant	0	---
77-009	<i>Lepomis macrochirus</i> Northern bluegill sunfish	57	1.075	Moderately Tolerant	0	---
77-013	<i>Lepomis gibbosus</i> Pumpkinseed sunfish	1	0.032	Moderately Tolerant	0	---
77-014	<i>HYBRID</i> Bluegill X Pumpkinseed	1	0.008	--	0	---
80-002	<i>Sander vitreus</i> Walleye	11	0.027	--	0	---
80-005	<i>Etheostoma maculata</i> Blackside darter	1	0.015	--	0	---
80-011	<i>Percina caprodes</i> Northern logperch darter	24	0.321	Moderately Intolerant	0	---
80-015	<i>Etheostoma blenniodes</i> Greenside darter	22	0.15	Moderately Intolerant	0	---
80-022	<i>Etheostoma caeruleum</i> Rainbow darter	1	0.008	Moderately Intolerant	0	---
87-001	<i>Neogobius melanostomus</i> Round goby	32	0.305	--	0	---
	<b>Totals</b>	<b><u>407</u></b>	<b><u>10.263</u></b>		<b><u>3</u></b>	

\*DELT anomalies were observed on 0.74 % of the fish collected.  
Index of Biotic Integrity (IBI) = 44 (Good)

**Rocky River Near Tyler Barn  
July 2, 2020**

**River Mile: 4.80**

Modified Index of Well-Being (MIwb) =	9.3	(Very Good)
Shannon Diversity Index, no.	2.697	
Shannon Diversity Index, wt.	2.342	
N	471	
B	10.3	

**Rocky River Near Tyler Barn**  
**October 12, 2020**  
**River Mile: 4.80**  
**Station ID: T01W07**  
**Collection Method: Longline Electrofishing**  
**Drainage Area: 289 miles<sup>2</sup>**  
**Collection Distance: 0.2 km**

Code	Species	Number	Weight (kg)	Pollution Tolerance	DELTA Anomalies #	Description
25-002	<i>Oncorhynchus mykiss</i> Rainbow trout	2	3.175	--	0	---
40-010	<i>Moxostoma erythrurum</i> Golden redhorse	3	0.05	Moderately Intolerant	0	---
40-015	<i>Hypentelium nigricans</i> Northern hog sucker	4	1.6	Moderately Intolerant	0	---
40-016	<i>Catostomus commersonii</i> Common white sucker	34	1.24	Highly Tolerant	0	---
43-001	<i>Cyprinus carpio</i> Common carp	2	0.13	Highly Tolerant	0	---
43-002	<i>Carassius auratus</i> Goldfish	2	0.48	Highly Tolerant	0	---
43-011	<i>Rhinichthys atratulus</i> Blacknose dace	1	0.004	Highly Tolerant	0	---
43-013	<i>Semotilus atromaculatus</i> Creek chub	3	0.035	Highly Tolerant	0	---
43-020	<i>Notropis atherinoides</i> Common Emerald shiner	97	0.3	--	0	---
43-022	<i>Notropis rubellus</i> Rosyface Shiner	2	0.009	Intolerant	0	---
43-026	<i>Notropis cornutus</i> Common shiner	33	0.157	--	0	---
43-025	<i>Notropis chrysocephalus</i> Striped shiner	23	0.12	--	0	---
43-032	<i>Cyprinella spiloptera</i> Spotfin shiner	309	1.426	--	0	---
43-034	<i>Notropis stramineus</i> Sand shiner	358	0.61	Moderately Intolerant	0	---
43-035	<i>Notropis volucellus</i>	3	0.007	Common	0	---

**Rocky River Near Tyler Barn**

**October 12, 2020**

**River Mile: 4.80**

	Mimic Shiner			Intolerant		
43-039	<i>Ericymba buccata</i> Silverjaw minnow	3	0.015	--	0	---
43-043	<i>Pimephales notatus</i> Bluntnose minnow	50	0.173	Highly Tolerant	0	---
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	30	0.315	--	0	---
47-004	<i>Ictalurus natalis</i> Yellow bullhead	15	1.011	Highly Tolerant	0	---
47-008	<i>Noturus flavus</i> Stonecat Madtom	14	0.28	Intolerant	0	---
77-003	<i>Ambloplites rupestris</i> Northern rockbass	18	0.24	--	0	---
77-004	<i>Micropterus dolomieu</i> Smallmouth bass	28	2.7	Moderately Intolerant	1	Lesion
77-008	<i>Lepomis cyanellus</i> Green sunfish	24	0.28	Highly Tolerant	0	---
77-009	<i>Lepomis macrochirus</i> Northern bluegill sunfish	38	0.5	Moderately Tolerant	0	---
77-013	<i>Lepomis gibbosus</i> Pumpkinseed sunfish	2	0.03	Moderately Tolerant	0	---
80-002	<i>Sander vitreus</i> Walleye	2	0.1	--	0	---
80-003	<i>Perca flavescens</i> Yellow perch	1	0.005	--	0	---
80-011	<i>Percina caprodes</i> Northern logperch darter	20	0.33	Moderately Intolerant	0	---
80-014	<i>Etheostoma nigrum</i> Johnny darter	1	0.003	--	0	---
80-015	<i>Etheostoma blenniodes</i> Greenside darter	81	0.25	Moderately Intolerant	0	---
80-022	<i>Etheostoma caeruleum</i> Rainbow darter	20	0.043	Moderately Intolerant	0	---
87-001	<i>Neogobius melanostomus</i>	56	0.24	--	0	---

**Rocky River Near Tyler Barn**  
**October 12, 2020**  
**River Mile: 4.80**

Round goby

Totals	<u>1279</u>	<u>15.858</u>	<u>1</u>
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*DELT anomalies were observed on	0.08	% of the fish collected.
Index of Biotic Integrity (IBI) =	48	(Very Good)
Modified Index of Well-Being (MIwb) =	10.0	(Exceptional)
Shannon Diversity Index, no.	2.391	
Shannon Diversity Index, wt.	2.638	
N	1635	
B	13.64	



**Rocky River Upstream of Hilliard Boulevard**

**July 2, 2020**

**River Mile: 2.50**

**Station ID: T01W04**

**Collection Method: Longline Electrofishing**

**Drainage Area: 292 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>
10-004	<i>Lepisosteus osseus</i> Longnose Gar	2	0.012	--	0	---
25-002	<i>Oncorhynchus mykiss</i> Rainbow trout	1	0.035	--	0	---
40-005	<i>Carpoides cyprinus</i> Central quillback carpsucker	1	0.005	--	0	---
40-011	<i>Moxostoma macrolepidotum</i> Shorthead redhorse	2	0.378	Moderately Intolerant	0	---
40-015	<i>Hypentelium nigricans</i> Northern hog sucker	8	0.49	Moderately Intolerant	0	---
40-016	<i>Catostomus commersonii</i> Common white sucker	20	0.354	Highly Tolerant	0	---
43-002	<i>Carassius auratus</i> Goldfish	1	0.012	Highly Tolerant	0	---
43-013	<i>Semotilus atromaculatus</i> Creek chub	4	0.01	Highly Tolerant	0	---
43-025	<i>Notropis chrysocephalus</i> Striped shiner	25	0.11	--	0	---
43-032	<i>Cyprinella spiloptera</i> Spotfin shiner	128	0.448	--	0	---
43-034	<i>Notropis stramineus</i> Sand shiner	5	0.016	Moderately Intolerant	0	---
43-042	<i>Pimephales promelas</i> Northern fathead minnow	1	0.006	Highly Tolerant	0	---
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	29	0.128	--	0	---
47-002	<i>Ictalurus punctatus</i> Channel catfish	5	0.085	--	0	---
47-004	<i>Ictalurus natalis</i>	7	0.62	Highly	0	---

**Rocky River Upstream of Hilliard Boulevard**

**July 2, 2020**

**River Mile: 2.50**

	Yellow bullhead			Tolerant		
47-008	<i>Noturus flavus</i> Stonecat Madtom	19	0.395	Intolerant	0	---
77-003	<i>Ambloplites rupestris</i> Northern rockbass	10	0.683	--	0	---
77-004	<i>Micropterus dolomieu</i> Smallmouth bass	137	0.168	Moderately Intolerant	0	---
77-008	<i>Lepomis cyanellus</i> Green sunfish	9	0.105	Highly Tolerant	0	---
77-009	<i>Lepomis macrochirus</i> Northern bluegill sunfish	25	0.35	Moderately Tolerant	0	---
80-002	<i>Sander vitreus</i> Walleye	5	0.115	--	0	---
80-011	<i>Percina caprodes</i> Northern logperch darter	53	0.773	Moderately Intolerant	0	---
80-014	<i>Etheostoma nigrum</i> Johnny darter	1	0.003	--	0	---
80-015	<i>Etheostoma blenniodes</i> Greenside darter	30	0.124	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	32	0.287	--	0	---
	Totals	<u>561</u>	<u>5.714</u>		<u>0</u>	

\*DELT anomalies were observed on 0.00 % of the fish collected.

Index of Biotic Integrity (IBI) =	48	(Very Good)
Modified Index of Well-Being (MIwb) =	9.3	(Very Good)
Shannon Diversity Index, no.	2.411	
Shannon Diversity Index, wt.	2.701	
N	729	
B	6.428	

**Rocky River Upstream of Hilliard Boulevard**

**October 12, 2020**

**River Mile: 2.50**

**Station ID: T01W04**

**Collection Method: Longline Electrofishing**

**Drainage Area: 292 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>DELTA Anomalies Description</b>
20-003	<i>Dorosoma cepedianum</i> Eastern gizzard shad	8	0.12	--	0	---
40-010	<i>Moxostoma erythrurum</i> Golden redhorse	5	0.062	Moderately Intolerant	0	---
40-015	<i>Hypentelium nigricans</i> Northern hog sucker	3	0.77	Moderately Intolerant	0	---
40-016	<i>Catostomus commersonii</i> Common white sucker	30	0.705	Highly Tolerant	0	---
43-001	<i>Cyprinus carpio</i> Common carp	1	0.025	Highly Tolerant	0	---
43-013	<i>Semotilus atromaculatus</i> Creek chub	3	0.031	Highly Tolerant	0	---
43-020	<i>Notropis atherinoides</i> Common Emerald shiner	46	0.17	--	0	---
43-025	<i>Notropis chrysocephalus</i> Striped shiner	12	0.1	--	0	---
43-032	<i>Cyprinella spiloptera</i> Spotfin shiner	33	0.105	--	0	---
43-034	<i>Notropis stramineus</i> Sand shiner	6	0.014	Moderately Intolerant	0	---
43-043	<i>Pimephales notatus</i> Bluntnose minnow	3	0.044	Highly Tolerant	0	---
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	53	0.725	--	0	---
47-004	<i>Ictalurus natalis</i> Yellow bullhead	22	0.18	Highly Tolerant	0	---
47-008	<i>Noturus flavus</i> Stonecat Madtom	44	1.477	Intolerant	0	---
77-003	<i>Ambloplites rupestris</i>	55	0.765	--	0	---

**Rocky River Upstream of Hilliard Boulevard**

**October 12, 2020**

**River Mile: 2.50**

	Northern rockbass					
77-004	<i>Micropterus dolomieu</i> Smallmouth bass	21	0.85	Moderately Intolerant	0	---
77-006	<i>Micropterus salmoides</i> Largemouth bass	2	0.05	--	0	---
77-008	<i>Lepomis cyanellus</i> Green sunfish	14	0.19	Highly Tolerant	1	Erosion
77-009	<i>Lepomis macrochirus</i> Northern bluegill sunfish	19	0.245	Moderately Tolerant	0	---
77-013	<i>Lepomis gibbosus</i> Pumpkinseed sunfish	3	0.062	Moderately Tolerant	0	---
77-016	<i>HYBRID</i> Green SF X Pumpkinseed	1	0.028	--	0	---
80-002	<i>Sander vitreus</i> Walleye	3	0.05	--	0	---
80-003	<i>Perca flavescens</i> Yellow perch	1	0.009	--	0	---
80-011	<i>Percina caprodes</i> Northern logperch darter	33	0.59	Moderately Intolerant	1	Deformity
80-015	<i>Etheostoma blenniodes</i> Greenside darter	47	0.195	Moderately Intolerant	0	---
80-022	<i>Etheostoma caeruleum</i> Rainbow darter	6	0.02	Moderately Intolerant	0	---
87-001	<i>Neogobius melanostomus</i> Round goby	55	0.28	--	0	---
	Totals	<u>529</u>	<u>7.862</u>		<u>2</u>	

*DELT anomalies were observed on	0.38 % of the fish collected.
Index of Biotic Integrity (IBI) =	46 (Very Good)
Modified Index of Well-Being (MIwb) =	9.8 (Exceptional)
Shannon Diversity Index, no.	2.819
Shannon Diversity Index, wt.	2.658
N	600
B	9.569