

Rocky River Downstream of Cedar Point Road

July 29, 2019

River Mile: 11.85

Station ID: T01W19

Collection Method: Roller Pram Electrofishing

Drainage Area: 267 miles²

Collection Distance: 0.2 km

Code	Species	Number	Weight (kg)	Pollution Tolerance	#	DELT Anomalies Description
40-015	<i>Hypentelium nigricans</i> Northern hog sucker	5	0.66	Moderately Intolerant	0	---
40-016	<i>Catostomus commersonii</i> Common white sucker	8	0.775	Highly Tolerant	0	---
43-001	<i>Cyprinus carpio</i> Common carp	7	11.581	Highly Tolerant	0	---
43-022	<i>Notropis rubellus</i> Rosyface Shiner	4	0.011	Intolerant	0	---
43-025	<i>Notropis chrysocephalus</i> Striped shiner	49	1	--	0	---
43-032	<i>Cyprinella spiloptera</i> Spotfin shiner	7	0.05	--	0	---
43-034	<i>Notropis stramineus</i> Sand shiner	86	0.21	Moderately Intolerant	0	---
43-043	<i>Pimephales notatus</i> Bluntnose minnow	6	0.027	Highly Tolerant	0	---
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	16	0.075	--	0	---
47-002	<i>Ictalurus punctatus</i> Channel catfish	8	1.79	--	0	---
47-004	<i>Ictalurus natalis</i> Yellow bullhead	9	0.54	Highly Tolerant	2	Lesion
47-006	<i>Ictalurus melas</i> Black bullhead	1	0.082	Moderately Tolerant	0	---
47-008	<i>Noturus flavus</i> Stonecat Madtom	9	0.175	Intolerant	0	---
77-002	<i>Pomoxis nigromaculatus</i> Black crappie	2	0.032	--	0	---
77-003	<i>Ambloplites rupestris</i>	5	0.36	--	0	---

Rocky River Downstream of Cedar Point Road

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River Mile: 11.85

Station ID: T01W19

Northern rockbass

77-004	<i>Micropterus dolomieu</i> Smallmouth bass	8	4.04	Moderately Intolerant	0	---
77-006	<i>Micropterus salmoides</i> Largemouth bass	1	0.01	--	0	---
77-008	<i>Lepomis cyanellus</i> Green sunfish	23	0.338	Highly Tolerant	0	---
77-009	<i>Lepomis macrochirus</i> Northern bluegill sunfish	19	0.285	Moderately Tolerant	0	---
77-013	<i>Lepomis gibbosus</i> Pumpkinseed sunfish	1	0.054	Moderately Tolerant	0	---
77-015	<i>HYBRID</i> Green SF X Bluegill SF	2	0.045	--	0	---
80-015	<i>Etheostoma blenniodes</i> Greenside darter	34	0.162	Moderately Intolerant	0	---
80-022	<i>Etheostoma caeruleum</i> Rainbow darter	6	0.012	Moderately Intolerant	0	---
87-001	<i>Neogobius melanostomus</i> Round goby	13	0.033	--	0	---

Totals	<u>329</u>	<u>22.347</u>	<u>2</u>
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*DELT anomalies were observed on	0.61	% of the fish collected.
Index of Biotic Integrity (IBI) =	38	(Good)
Modified Index of Well-Being (MIwb) =	8.6	(Good)
Shannon Diversity Index, no.	2.568	
Shannon Diversity Index, wt.	1.724	
N	391.5	
B	13.51	

Rocky River Downstream of Cedar Point Road

October 3, 2019

River Mile: 11.85

Station ID: T01W19

Collection Method: Roller Pram Electrofishing

Drainage Area: 267 miles²

Collection Distance: 0.2 km

Code	Species	Number	Weight (kg)	Pollution Tolerance	#	DELT Anomalies Description
40-015	<i>Hypentelium nigricans</i> Northern hog sucker	4	1	Moderately Intolerant	1	Deformity
40-016	<i>Catostomus commersonii</i> Common white sucker	5	2.05	Highly Tolerant	0	---
43-001	<i>Cyprinus carpio</i> Common carp	7	15.422	Highly Tolerant	0	---
43-013	<i>Semotilus atromaculatus</i> Creek chub	4	0.04	Highly Tolerant	0	---
43-020	<i>Notropis atherinoides</i> Common Emerald shiner	1	0.002	--	0	---
43-022	<i>Notropis rubellus</i> Rosyface Shiner	11	0.03	Intolerant	0	---
43-026	<i>Notropis cornutus</i> Common shiner	1	0.004	--	0	---
43-025	<i>Notropis chrysocephalus</i> Striped shiner	1	0.089	--	0	---
43-032	<i>Cyprinella spiloptera</i> Spotfin shiner	161	0.153	--	0	---
43-034	<i>Notropis stramineus</i> Sand shiner	71	0.067	Moderately Intolerant	0	---
43-035	<i>Notropis volucellus</i> Mimic Shiner	2	0.003	Common Intolerant	0	---
43-039	<i>Ericymba buccata</i> Silverjaw minnow	1	0.002	--	0	---
43-043	<i>Pimephales notatus</i> Bluntnose minnow	264	0.266	Highly Tolerant	0	---
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	1	0.005	--	0	---
47-002	<i>Ictalurus punctatus</i>	6	0.013	--	0	---

Rocky River Downstream of Cedar Point Road

October 3, 2019

River Mile: 11.85

Station ID: T01W19

Channel catfish						
47-004	<i>Ictalurus natalis</i> Yellow bullhead	2	0.06	Highly Tolerant	0	---
47-008	<i>Noturus flavus</i> Stonecat Madtom	19	0.345	Intolerant	0	---
77-003	<i>Ambloplites rupestris</i> Northern rockbass	5	0.34	--	0	---
77-004	<i>Micropterus dolomieu</i> Smallmouth bass	14	0.51	Moderately Intolerant	0	---
77-006	<i>Micropterus salmoides</i> Largemouth bass	3	0.075	--	1	Tumor
77-008	<i>Lepomis cyanellus</i> Green sunfish	45	0.62	Highly Tolerant	0	---
77-009	<i>Lepomis macrochirus</i> Northern bluegill sunfish	11	0.025	Moderately Tolerant	0	---
77-016	<i>HYBRID</i> Green SF X Pumpkinseed	2	0.1	--	0	---
80-014	<i>Etheostoma nigrum</i> Johnny darter	2	0.003	--	0	---
80-015	<i>Etheostoma blenniodes</i> Greenside darter	22	0.15	Moderately Intolerant	0	---
80-022	<i>Etheostoma caeruleum</i> Rainbow darter	8	0.032	Moderately Intolerant	0	---
87-001	<i>Neogobius melanostomus</i> Round goby	64	0.275	--	0	---
Totals		<u>737</u>	<u>21.681</u>		<u>2</u>	

*DELT anomalies were observed on 0.27 % of the fish collected.
 Index of Biotic Integrity (IBI) = 30 (Fair)
 Modified Index of Well-Being (MIwb) = 7.2 (Fair)
 Shannon Diversity Index, no. 2.097
 Shannon Diversity Index, wt. 1.258
 N 516
 B 4.272

Rocky River Downstream of Abram Creek
August 30, 2019
River Mile: 10.20
Station ID: T01W15
Collection Method: Longline Electrofishing
Drainage Area: 280 miles²
Collection Distance: 0.2 km

Code	Species	Number	Weight (kg)	Pollution Tolerance	#	DELT Anomalies Description
40-015	<i>Hypentelium nigricans</i> Northern hog sucker	2	0.011	Moderately Intolerant	0	---
40-016	<i>Catostomus commersonii</i> Common white sucker	1	0.015	Highly Tolerant	0	---
43-003	<i>Notemigonus crysoleucas</i> Golden shiner	1	0.008	Highly Tolerant	0	---
43-011	<i>Rhinichthys atratulus</i> Blacknose dace	1	0.002	Highly Tolerant	0	---
43-013	<i>Semotilus atromaculatus</i> Creek chub	10	0.035	Highly Tolerant	0	---
43-022	<i>Notropis rubellus</i> Rosyface Shiner	4	0.009	Intolerant	0	---
43-026	<i>Notropis cornutus</i> Common shiner	4	0.016	--	0	---
43-025	<i>Notropis chrysocephalus</i> Striped shiner	22	0.028	--	0	---
43-032	<i>Cyprinella spiloptera</i> Spotfin shiner	32	0.026	--	0	---
43-033	<i>Notropis dorsalis</i> Bigmouth Shiner	2	0.004	--	0	---
43-034	<i>Notropis stramineus</i> Sand shiner	62	0.073	Moderately Intolerant	0	---
43-039	<i>Ericymba buccata</i> Silverjaw minnow	4	0.012	--	0	---
43-043	<i>Pimephales notatus</i> Bluntnose minnow	644	0.605	Highly Tolerant	0	---
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	31	0.1	--	0	---
47-002	<i>Ictalurus punctatus</i>	3	0.022	--	0	---

Rocky River Downstream of Abram Creek

August 30, 2019

River Mile: 10.20

Station ID: T01W15

Channel catfish						
47-004	<i>Ictalurus natalis</i> Yellow bullhead	8	0.115	Highly Tolerant	0	---
47-008	<i>Noturus flavus</i> Stonecat Madtom	12	0.48	Intolerant	0	---
77-003	<i>Ambloplites rupestris</i> Northern rockbass	5	0.15	--	0	---
77-004	<i>Micropterus dolomieu</i> Smallmouth bass	24	0.821	Moderately Intolerant	0	---
77-008	<i>Lepomis cyanellus</i> Green sunfish	19	0.185	Highly Tolerant	0	---
77-009	<i>Lepomis macrochirus</i> Northern bluegill sunfish	2	0.05	Moderately Tolerant	0	---
80-005	<i>Etheostoma maculata</i> Blackside darter	1	0.002	--	0	---
80-014	<i>Etheostoma nigrum</i> Johnny darter	4	0.007	--	0	---
80-015	<i>Etheostoma blenniodes</i> Greenside darter	29	0.18	Moderately Intolerant	0	---
80-022	<i>Etheostoma caeruleum</i> Rainbow darter	9	0.019	Moderately Intolerant	0	---
87-001	<i>Neogobius melanostomus</i> Round goby	58	0.175	--	0	---
Totals		<u>994</u>	<u>3.150</u>		<u>0</u>	

*DELT anomalies were observed on	0.00	% of the fish collected.
Index of Biotic Integrity (IBI) =	28	(Fair)
Modified Index of Well-Being (MIwb) =	7.4	(Marginally Good)
Shannon Diversity Index, no.	1.571	
Shannon Diversity Index, wt.	2.327	
N	378	
B	3.015	

Rocky River Downstream of Abram Creek

October 8, 2019

River Mile: 10.20

Station ID: T01W15

Collection Method: Longline Electrofishing

Drainage Area: 280 miles²

Collection Distance: 0.2 km

Code	Species	Number	Weight (kg)	Pollution Tolerance	#	DELT Anomalies Description
40-015	<i>Hypentelium nigricans</i> Northern hog sucker	1	0.01	Moderately Intolerant	0	---
40-016	<i>Catostomus commersonii</i> Common white sucker	9	0.15	Highly Tolerant	0	---
43-001	<i>Cyprinus carpio</i> Common carp	4	13.85	Highly Tolerant	0	---
43-013	<i>Semotilus atromaculatus</i> Creek chub	3	0.02	Highly Tolerant	0	---
43-020	<i>Notropis atherinoides</i> Common Emerald shiner	1	0.002	--	0	---
43-022	<i>Notropis rubellus</i> Rosyface Shiner	17	0.05	Intolerant	0	---
43-026	<i>Notropis cornutus</i> Common shiner	12	0.62	--	0	---
43-032	<i>Cyprinella spiloptera</i> Spotfin shiner	77	0.122	--	0	---
43-033	<i>Notropis dorsalis</i> Bigmouth Shiner	1	0.002	--	0	---
43-034	<i>Notropis stramineus</i> Sand shiner	127	0.275	Moderately Intolerant	0	---
43-035	<i>Notropis volucellus</i> Mimic Shiner	3	0.013	Common Intolerant	0	---
43-039	<i>Ericymba buccata</i> Silverjaw minnow	18	0.028	--	0	---
43-043	<i>Pimephales notatus</i> Bluntnose minnow	337	0.289	Highly Tolerant	0	---
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	94	0.664	--	0	---
47-002	<i>Ictalurus punctatus</i>	2	0.018	--	0	---

Rocky River Downstream of Abram Creek

October 8, 2019

River Mile: 10.20

Station ID: T01W15

	Channel catfish					
47-004	<i>Ictalurus natalis</i> Yellow bullhead	1	0.008	Highly Tolerant	0	---
47-008	<i>Noturus flavus</i> Stonecat Madtom	9	0.352	Intolerant	0	---
77-003	<i>Ambloplites rupestris</i> Northern rockbass	1	0.006	--	0	---
77-004	<i>Micropterus dolomieu</i> Smallmouth bass	7	0.105	Moderately Intolerant	0	---
77-008	<i>Lepomis cyanellus</i> Green sunfish	9	0.1	Highly Tolerant	0	---
77-009	<i>Lepomis macrochirus</i> Northern bluegill sunfish	3	0.01	Moderately Tolerant	0	---
80-014	<i>Etheostoma nigrum</i> Johnny darter	8	0.02	--	0	---
80-015	<i>Etheostoma blenniodes</i> Greenside darter	30	0.03	Moderately Intolerant	0	---
80-022	<i>Etheostoma caeruleum</i> Rainbow darter	7	0.021	Moderately Intolerant	0	---
87-001	<i>Neogobius melanostomus</i> Round goby	162	0.599	--	0	---
43-057	<i>HYBRID</i> Striped SH X Stoneroller	1	0.018	--	0	---
	Totals	<u>944</u>	<u>17.382</u>		<u>0</u>	

*DELT anomalies were observed on	0.00	% of the fish collected.
Index of Biotic Integrity (IBI) =	32	(Fair)
Modified Index of Well-Being (MIwb) =	6.9	(Fair)
Shannon Diversity Index, no.	2.068	
Shannon Diversity Index, wt.	0.988	
N	627	
B	3.522	

Rocky River Upstream of Puritas Avenue

August 28, 2019

River Mile: 8.30

Station ID: 501810

Collection Method: Roller Pram Electrofishing

Drainage Area: 282 miles²

Collection Distance: 0.2 km

Code	Species	Number	Weight (kg)	Pollution Tolerance	#	DELT Anomalies Description
40-015	<i>Hypentelium nigricans</i> Northern hog sucker	1	0.09	Moderately Intolerant	0	---
40-016	<i>Catostomus commersonii</i> Common white sucker	1	0.028	Highly Tolerant	0	---
43-013	<i>Semotilus atromaculatus</i> Creek chub	14	0.059	Highly Tolerant	0	---
43-022	<i>Notropis rubellus</i> Rosyface Shiner	17	0.03	Intolerant	0	---
43-026	<i>Notropis cornutus</i> Common shiner	16	0.022	--	0	---
43-032	<i>Cyprinella spiloptera</i> Spotfin shiner	179	0.178	--	0	---
43-034	<i>Notropis stramineus</i> Sand shiner	110	0.2	Moderately Intolerant	0	---
43-043	<i>Pimephales notatus</i> Bluntnose minnow	61	0.06	Highly Tolerant	0	---
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	25	0.125	--	0	---
47-002	<i>Ictalurus punctatus</i> Channel catfish	4	0.021	--	0	---
47-004	<i>Ictalurus natalis</i> Yellow bullhead	8	0.1	Highly Tolerant	0	---
47-008	<i>Noturus flavus</i> Stonecat Madtom	25	0.424	Intolerant	0	---
77-003	<i>Ambloplites rupestris</i> Northern rockbass	5	0.154	--	0	---
77-004	<i>Micropterus dolomieu</i> Smallmouth bass	16	1.52	Moderately Intolerant	0	---
77-008	<i>Lepomis cyanellus</i>	10	0.065	Highly	0	---

Rocky River Upstream of Puritas Avenue

August 28, 2019

River Mile: 8.30

Station ID: 501810

	Green sunfish			Tolerant		
77-009	<i>Lepomis macrochirus</i> Northern bluegill sunfish	3	0.055	Moderately Tolerant	0	---
80-014	<i>Etheostoma nigrum</i> Johnny darter	2	0.004	--	0	---
80-015	<i>Etheostoma blenniodes</i> Greenside darter	46	0.325	Moderately Intolerant	0	---
80-022	<i>Etheostoma caeruleum</i> Rainbow darter	12	0.028	Moderately Intolerant	0	---
87-001	<i>Neogobius melanostomus</i> Round goby	52	0.18	--	0	---
	Totals	<u>607</u>	<u>3.668</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) =	8.5	(Good)
Shannon Diversity Index, no.	2.289	
Shannon Diversity Index, wt.	2.17	
N	691.5	
B	4.764	

Rocky River Upstream of Puritas Avenue
October 4, 2019
River Mile: 8.30
Station ID: 501810
Collection Method: Longline Electrofishing
Drainage Area: 282 miles²
Collection Distance: 0.2 km

Code	Species	Number	Weight (kg)	Pollution Tolerance	#	DELT Anomalies Description
40-015	<i>Hypentelium nigricans</i> Northern hog sucker	3	0.36	Moderately Intolerant	0	---
40-016	<i>Catostomus commersonii</i> Common white sucker	1	0.02	Highly Tolerant	0	---
43-022	<i>Notropis rubellus</i> Rosyface Shiner	1	0.003	Intolerant	0	---
43-026	<i>Notropis cornutus</i> Common shiner	1	0.005	--	0	---
43-032	<i>Cyprinella spiloptera</i> Spotfin shiner	98	0.138	--	0	---
43-034	<i>Notropis stramineus</i> Sand shiner	48	0.105	Moderately Intolerant	0	---
43-043	<i>Pimephales notatus</i> Bluntnose minnow	38	0.092	Highly Tolerant	0	---
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	26	0.16	--	0	---
47-002	<i>Ictalurus punctatus</i> Channel catfish	1	0.016	--	0	---
47-004	<i>Ictalurus natalis</i> Yellow bullhead	1	0.01	Highly Tolerant	0	---
47-008	<i>Noturus flavus</i> Stonecat Madtom	16	0.44	Intolerant	0	---
77-003	<i>Ambloplites rupestris</i> Northern rockbass	5	0.31	--	0	---
77-004	<i>Micropterus dolomieu</i> Smallmouth bass	16	1.2	Moderately Intolerant	0	---
77-009	<i>Lepomis macrochirus</i> Northern bluegill sunfish	8	0.12	Moderately Tolerant	0	---
80-014	<i>Etheostoma nigrum</i>	3	0.005	--	0	---

Rocky River Upstream of Puritas Avenue

October 4, 2019

River Mile: 8.30

Station ID: 501810

Johnny darter

80-015	<i>Etheostoma blenniodes</i> Greenside darter	35	0.265	Moderately Intolerant	0	---
80-022	<i>Etheostoma caeruleum</i> Rainbow darter	6	0.038	Moderately Intolerant	0	---
87-001	<i>Neogobius melanostomus</i> Round goby	70	0.34	--	0	---
	Totals	<u>377</u>	<u>3.627</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) =	8.2	(Good)
Shannon Diversity Index, no.	2.19	
Shannon Diversity Index, wt.	2.186	
N	400.5	
B	4.748	

Rocky River Near Tyler Barn
August 2, 2019
River Mile: 4.80
Station ID: T01W07
Collection Method: Longline Electrofishing
Drainage Area: 289 miles²
Collection Distance: 0.2 km

Code	Species	Number	Weight (kg)	Pollution Tolerance	#	DELT Anomalies Description
20-003	<i>Dorosoma cepedianum</i> Eastern gizzard shad	98	0.453	--	0	---
40-005	<i>Carpionodes cyprinus</i> Central quillback carpsucker	1	0.001	--	0	---
40-011	<i>Moxostoma macrolepidotum</i> Shorthead redhorse	2	0.3	Moderately Intolerant	0	---
40-016	<i>Catostomus commersonii</i> Common white sucker	5	0.25	Highly Tolerant	0	---
43-013	<i>Semotilus atromaculatus</i> Creek chub	11	0.029	Highly Tolerant	0	---
43-022	<i>Notropis rubellus</i> Rosyface Shiner	3	0.01	Intolerant	0	---
43-026	<i>Notropis cornutus</i> Common shiner	3	0.012	--	0	---
43-025	<i>Notropis chrysocephalus</i> Striped shiner	1	0.009	--	0	---
43-032	<i>Cyprinella spiloptera</i> Spotfin shiner	87	0.248	--	0	---
43-034	<i>Notropis stramineus</i> Sand shiner	17	0.038	Moderately Intolerant	0	---
43-035	<i>Notropis volucellus</i> Mimic Shiner	47	0.075	Common Intolerant	0	---
43-043	<i>Pimephales notatus</i> Bluntnose minnow	2	0.004	Highly Tolerant	0	---
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	8	0.023	--	0	---
47-004	<i>Ictalurus natalis</i> Yellow bullhead	4	0.381	Highly Tolerant	0	---
47-008	<i>Noturus flavus</i>	26	0.6	Intolerant	0	---

Rocky River Near Tyler Barn

August 2, 2019

River Mile: 4.80

Station ID: T01W07

Stonecat Madtom

77-003	<i>Ambloplites rupestris</i> Northern rockbass	11	0.603	--	0	---
77-004	<i>Micropterus dolomieu</i> Smallmouth bass	7	4.83	Moderately Intolerant	0	---
77-008	<i>Lepomis cyanellus</i> Green sunfish	18	0.205	Highly Tolerant	0	---
77-009	<i>Lepomis macrochirus</i> Northern bluegill sunfish	28	0.745	Moderately Tolerant	1	Deformity
80-002	<i>Sander vitreus</i> Walleye	3	0.27	--	0	---
80-011	<i>Percina caprodes</i> Northern logperch darter	27	0.425	Moderately Intolerant	0	---
80-014	<i>Etheostoma nigrum</i> Johnny darter	1	0.003	--	0	---
80-015	<i>Etheostoma blenniodes</i> Greenside darter	71	0.367	Moderately Intolerant	0	---
80-022	<i>Etheostoma caeruleum</i> Rainbow darter	6	0.016	Moderately Intolerant	0	---
87-001	<i>Neogobius melanostomus</i> Round goby	15	0.122	--	0	---
Totals		<u>502</u>	<u>10.019</u>		<u>1</u>	

*DELT anomalies were observed on	0.20	% of the fish collected.
Index of Biotic Integrity (IBI) =	44	(Good)
Modified Index of Well-Being (MIwb) =	9.1	(Very Good)
Shannon Diversity Index, no.	2.535	
Shannon Diversity Index, wt.	2.048	
N	670.5	
B	13.54	

Rocky River Near Tyler Barn
September 26, 2019
River Mile: 4.80
Station ID: T01W07
Collection Method: Longline Electrofishing
Drainage Area: 289 miles²
Collection Distance: 0.2 km

Code	Species	Number	Weight (kg)	Pollution Tolerance	#	DELT Anomalies Description
25-002	<i>Oncorhynchus mykiss</i> Rainbow trout	1	0.43	--	0	---
40-011	<i>Moxostoma macrolepidotum</i> Shorthead redhorse	2	0.23	Moderately Intolerant	0	---
40-016	<i>Catostomus commersonii</i> Common white sucker	8	1.5	Highly Tolerant	0	---
43-013	<i>Semotilus atromaculatus</i> Creek chub	8	0.022	Highly Tolerant	0	---
43-026	<i>Notropis cornutus</i> Common shiner	9	0.015	--	0	---
43-025	<i>Notropis chrysocephalus</i> Striped shiner	5	0.01	--	0	---
43-032	<i>Cyprinella spiloptera</i> Spotfin shiner	213	0.22	--	0	---
43-034	<i>Notropis stramineus</i> Sand shiner	107	0.07	Moderately Intolerant	0	---
43-035	<i>Notropis volucellus</i> Mimic Shiner	15	0.028	Common Intolerant	0	---
43-043	<i>Pimephales notatus</i> Bluntnose minnow	38	0.032	Highly Tolerant	0	---
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	1	0.004	--	0	---
47-002	<i>Ictalurus punctatus</i> Channel catfish	2	0.008	--	0	---
47-004	<i>Ictalurus natalis</i> Yellow bullhead	9	0.46	Highly Tolerant	1	Lesion
47-008	<i>Noturus flavus</i> Stonecat Madtom	11	0.308	Intolerant	0	---
77-003	<i>Ambloplites rupestris</i>	6	0.445	--	0	---

Rocky River Near Tyler Barn
September 26, 2019
River Mile: 4.80
Station ID: T01W07

Northern rockbass						
77-004	<i>Micropterus dolomieu</i> Smallmouth bass	6	1.91	Moderately Intolerant	0	---
77-006	<i>Micropterus salmoides</i> Largemouth bass	2	0.07	--	0	---
77-008	<i>Lepomis cyanellus</i> Green sunfish	12	0.13	Highly Tolerant	0	---
77-009	<i>Lepomis macrochirus</i> Northern bluegill sunfish	46	1.52	Moderately Tolerant	0	---
77-016	<i>HYBRID</i> Green SF X Pumpkinseed	1	0.065	--	0	---
80-002	<i>Sander vitreus</i> Walleye	16	0.45	--	0	---
80-011	<i>Percina caprodes</i> Northern logperch darter	18	0.375	Moderately Intolerant	0	---
80-015	<i>Etheostoma blenniodes</i> Greenside darter	26	0.15	Moderately Intolerant	0	---
80-022	<i>Etheostoma caeruleum</i> Rainbow darter	23	0.052	Moderately Intolerant	0	---
85-001	<i>Aplodinotus grunniens</i> Freshwater drum	5	0.425	Moderately Tolerant	0	---
87-001	<i>Neogobius melanostomus</i> Round goby	79	0.46	--	0	---
Totals		<u>669</u>	<u>9.389</u>		<u>1</u>	

*DELT anomalies were observed on	0.15 % of the fish collected.
Index of Biotic Integrity (IBI) =	42 (Good)
Modified Index of Well-Being (MIwb) =	9.4 (Very Good)
Shannon Diversity Index, no.	2.371
Shannon Diversity Index, wt.	2.538
N	769.5
B	9.435

Rocky River Upstream of Hilliard Boulevard
August 28, 2019
River Mile: 2.50
Station ID: T01W04
Collection Method: Roller Pram Electrofishing
Drainage Area: 292 miles²
Collection Distance: 0.2 km

Code	Species	Number	Weight (kg)	Pollution Tolerance	#	DELT Anomalies Description
20-003	<i>Dorosoma cepedianum</i> Eastern gizzard shad	7	0.07	--	0	---
40-005	<i>Carpiodes cyprinus</i> Central quillback carpsucker	2	0.025	--	0	---
40-010	<i>Moxostoma erythrum</i> Golden redhorse	1	0.16	Moderately Intolerant	0	---
40-011	<i>Moxostoma macrolepidotum</i> Shorthead redhorse	2	0.325	Moderately Intolerant	0	---
40-015	<i>Hypentelium nigricans</i> Northern hog sucker	3	0.36	Moderately Intolerant	0	---
40-016	<i>Catostomus commersonii</i> Common white sucker	8	0.42	Highly Tolerant	0	---
43-020	<i>Notropis atherinoides</i> Common Emerald shiner	21	0.14	--	0	---
43-022	<i>Notropis rubellus</i> Rosyface Shiner	1	0.003	Intolerant	0	---
43-026	<i>Notropis cornutus</i> Common shiner	3	0.01	--	0	---
43-025	<i>Notropis chrysocephalus</i> Striped shiner	13	0.34	--	0	---
43-032	<i>Cyprinella spiloptera</i> Spotfin shiner	61	0.078	--	0	---
43-034	<i>Notropis stramineus</i> Sand shiner	3	0.003	Moderately Intolerant	0	---
43-035	<i>Notropis volucellus</i> Mimic Shiner	41	0.075	Common Intolerant	0	---
43-043	<i>Pimephales notatus</i> Bluntnose minnow	2	0.006	Highly Tolerant	0	---
43-044	<i>Campostoma anomalum</i>	34	0.215	--	0	---

Rocky River Upstream of Hilliard Boulevard

August 28, 2019

River Mile: 2.50

Station ID: T01W04

Central stoneroller minnow

47-002	<i>Ictalurus punctatus</i> Channel catfish	12	0.055	--	0	---
47-004	<i>Ictalurus natalis</i> Yellow bullhead	25	0.77	Highly Tolerant	0	---
47-008	<i>Noturus flavus</i> Stonecat Madtom	21	0.426	Intolerant	0	---
74-003	<i>Morone americana</i> White perch	1	0.008	--	0	---
77-003	<i>Ambloplites rupestris</i> Northern rockbass	17	1.355	--	0	---
77-004	<i>Micropterus dolomieu</i> Smallmouth bass	2	0.022	Moderately Intolerant	0	---
77-006	<i>Micropterus salmoides</i> Largemouth bass	2	0.03	--	0	---
77-008	<i>Lepomis cyanellus</i> Green sunfish	6	0.095	Highly Tolerant	0	---
77-009	<i>Lepomis macrochirus</i> Northern bluegill sunfish	22	0.23	Moderately Tolerant	0	---
80-002	<i>Sander vitreus</i> Walleye	6	0.08	--	0	---
80-003	<i>Perca flavescens</i> Yellow perch	16	0.5	--	0	---
80-011	<i>Percina caprodes</i> Northern logperch darter	28	0.46	Moderately Intolerant	0	---
80-015	<i>Etheostoma blenniodes</i> Greenside darter	30	0.17	Moderately Intolerant	0	---
80-022	<i>Etheostoma caeruleum</i> Rainbow darter	8	0.028	Moderately Intolerant	0	---
85-001	<i>Aplodinotus grunniens</i> Freshwater drum	2	0.11	Moderately Tolerant	0	---
87-001	<i>Neogobius melanostomus</i> Round goby	28	0.23	--	0	---

Rocky River Upstream of Hilliard Boulevard

August 28, 2019

River Mile: 2.50

Station ID: T01W04

Totals	<u>428</u>	<u>6.799</u>	<u>0</u>
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*DELTA anomalies were observed on	0.00	% of the fish collected.
Index of Biotic Integrity (IBI) =	50	(Exceptional)
Modified Index of Well-Being (MIwb) =	9.9	(Exceptional)
Shannon Diversity Index, no.	2.951	
Shannon Diversity Index, wt.	2.819	
N	537	
B	7.905	

Rocky River Upstream of Hilliard Boulevard

October 7, 2019

River Mile: 2.50

Station ID: T01W04

Collection Method: Longline Electrofishing

Drainage Area: 292 miles²

Collection Distance: 0.2 km

Code	Species	Number	Weight (kg)	Pollution Tolerance	#	DELT Anomalies Description
20-003	<i>Dorosoma cepedianum</i> Eastern gizzard shad	3	0.06	--	0	---
40-015	<i>Hypentelium nigricans</i> Northern hog sucker	2	0.31	Moderately Intolerant	0	---
40-016	<i>Catostomus commersonii</i> Common white sucker	10	0.48	Highly Tolerant	0	---
43-020	<i>Notropis atherinoides</i> Common Emerald shiner	1	0.02	--	0	---
43-032	<i>Cyprinella spiloptera</i> Spotfin shiner	37	0.023	--	0	---
43-034	<i>Notropis stramineus</i> Sand shiner	2	0.005	Moderately Intolerant	0	---
43-035	<i>Notropis volucellus</i> Mimic Shiner	12	0.023	Common Intolerant	0	---
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	71	0.6	--	0	---
47-002	<i>Ictalurus punctatus</i> Channel catfish	13	0.115	--	0	---
47-004	<i>Ictalurus natalis</i> Yellow bullhead	16	0.52	Highly Tolerant	1	Lesion
47-008	<i>Noturus flavus</i> Stonecat Madtom	29	0.615	Intolerant	0	---
74-003	<i>Morone americana</i> White perch	3	0.022	--	0	---
77-003	<i>Ambloplites rupestris</i> Northern rockbass	12	0.706	--	0	---
77-004	<i>Micropterus dolomieu</i> Smallmouth bass	12	1.02	Moderately Intolerant	0	---
77-006	<i>Micropterus salmoides</i>	4	0.075	--	0	---

Rocky River Upstream of Hilliard Boulevard

October 7, 2019

River Mile: 2.50

Station ID: T01W04

	Largemouth bass					
77-008	<i>Lepomis cyanellus</i> Green sunfish	12	0.13	Highly Tolerant	0	---
77-009	<i>Lepomis macrochirus</i> Northern bluegill sunfish	18	0.255	Moderately Tolerant	0	---
77-010	<i>Lepomis humilis</i> Orangespotted Sunfish	1	0.002	--	0	---
77-016	<i>HYBRID</i> Green SF X Pumpkinseed	1	0.015	--	0	---
80-002	<i>Sander vitreus</i> Walleye	2	0.04	--	0	---
80-003	<i>Perca flavescens</i> Yellow perch	14	0.09	--	0	---
80-011	<i>Percina caprodes</i> Northern logperch darter	48	0.74	Moderately Intolerant	0	---
80-014	<i>Etheostoma nigrum</i> Johnny darter	2	0.005	--	0	---
80-015	<i>Etheostoma blenniodes</i> Greenside darter	51	0.33	Moderately Intolerant	0	---
80-022	<i>Etheostoma caeruleum</i> Rainbow darter	13	0.04	Moderately Intolerant	0	---
87-001	<i>Neogobius melanostomus</i> Round goby	100	0.59	--	0	---
	Totals	<u>489</u>	<u>6.831</u>		<u>1</u>	

*DELT anomalies were observed on	0.20	% of the fish collected.
Index of Biotic Integrity (IBI) =	44	(Good)
Modified Index of Well-Being (MIwb) =	9.4	(Exceptional)
Shannon Diversity Index, no.	2.633	
Shannon Diversity Index, wt.	2.646	
N	520.5	
B	7.611	