

Euclid Creek Upstream of St. Clair Avenue

June 24, 2019

River Mile: 1.65

Station ID: 504250

Collection Method: Longline Electrofishing

Drainage Area: 21.8 miles²

Collection Distance: 0.2 km

Code	Species	Number	Weight (kg)	Pollution Tolerance	#	DELT Anomalies Description
43-011	<i>Rhinichthys atratulus</i> Blacknose dace	61	0.21	Highly Tolerant	0	---
43-013	<i>Semotilus atromaculatus</i> Creek chub	88	0.871	Highly Tolerant	0	---
43-042	<i>Pimephales promelas</i> Northern fathead minnow	2	0.01	Highly Tolerant	0	---
43-043	<i>Pimephales notatus</i> Bluntnose minnow	1	0.006	Highly Tolerant	0	---
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	42	0.32	--	0	---
77-006	<i>Micropterus salmoides</i> Largemouth bass	4	0.014	--	0	---
77-009	<i>Lepomis macrochirus</i> Northern bluegill sunfish	11	0.118	Moderately Tolerant	0	---
Totals		<u>209</u>	<u>1.549</u>		<u>0</u>	

*DELT anomalies were observed on 0.00 % of the fish collected.
 Index of Biotic Integrity (IBI) = 24 (Poor)
 Modified Index of Well-Being (MIwb) = 4.6 (Poor)
 Shannon Diversity Index, no. 1.347
 Shannon Diversity Index, wt. 1.213
 N 85.5
 B 0.678

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Code	Species	Number	Weight (kg)	Pollution Tolerance	DELT #	DELT Anomalies Description
43-011	<i>Rhinichthys atratulus</i> Blacknose dace	265	0.684	Highly Tolerant	0	---
43-013	<i>Semotilus atromaculatus</i> Creek chub	101	0.705	Highly Tolerant	0	---
43-042	<i>Pimephales promelas</i> Northern fathead minnow	1	0.002	Highly Tolerant	0	---
43-043	<i>Pimephales notatus</i> Bluntnose minnow	217	0.217	Highly Tolerant	0	---
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	97	1.12	--	0	---
77-008	<i>Lepomis cyanellus</i> Green sunfish	4	0.06	Highly Tolerant	0	---
Totals		<u>685</u>	<u>2.788</u>		<u>0</u>	

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

Index of Biotic Integrity (IBI) = 22 (Poor)

Modified Index of Well-Being (MIwb) = 5.4 (Poor)

Shannon Diversity Index, no. 1.33

Shannon Diversity Index, wt. 1.345

N 145.5

B 1.68

Euclid Creek Downstream of Lakeshore Boulevard

June 24, 2019

River Mile: 0.55

Station ID: F01A47

Collection Method: Roller Pram Electrofishing

Drainage Area: 23 miles²

Collection Distance: 0.2 km

Code	Species	Number	Weight (kg)	Pollution Tolerance	#	DELT Anomalies Description
40-005	<i>Carpiodes cyprinus</i> Central quillback carpsucker	1	1.45	--	0	---
40-016	<i>Catostomus commersonii</i> Common white sucker	199	0.7	Highly Tolerant	0	---
43-002	<i>Carassius auratus</i> Goldfish	1	1.2	Highly Tolerant	0	---
43-020	<i>Notropis atherinoides</i> Common Emerald shiner	1	0.004	--	0	---
43-035	<i>Notropis volucellus</i> Mimic Shiner	40	0.05	Common Intolerant	0	---
43-042	<i>Pimephales promelas</i> Northern fathead minnow	1	0.01	Highly Tolerant	0	---
43-043	<i>Pimephales notatus</i> Bluntnose minnow	6	0.02	Highly Tolerant	0	---
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	2	0.002	--	0	---
47-004	<i>Ictalurus natalis</i> Yellow bullhead	10	1.14	Highly Tolerant	1	Lesion
77-003	<i>Ambloplites rupestris</i> Northern rockbass	2	0.27	--	0	---
77-004	<i>Micropterus dolomieu</i> Smallmouth bass	3	3	Moderately Intolerant	0	---
77-006	<i>Micropterus salmoides</i> Largemouth bass	4	0.14	--	0	---
77-008	<i>Lepomis cyanellus</i> Green sunfish	2	0.02	Highly Tolerant	0	---
77-009	<i>Lepomis macrochirus</i> Northern bluegill sunfish	26	0.47	Moderately Tolerant	0	---

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77-013	<i>Lepomis gibbosus</i> Pumpkinseed sunfish	20	0.11	Moderately Tolerant	0	---
87-001	<i>Neogobius melanostomus</i> Round goby	1	0.006	--	0	---
	Totals	<u><u>319</u></u>	<u><u>8.592</u></u>		<u><u>1</u></u>	

*DELT anomalies were observed on	0.31	% of the fish collected.
Index of Biotic Integrity (IBI) =	32	(Fair)
Modified Index of Well-Being (MIwb) =	6.8	(Fair)
Shannon Diversity Index, no.	1.401	
Shannon Diversity Index, wt.	1.882	
N	148.5	
B	8.244	

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Collection Method: Longline Electrofishing

Drainage Area: 23 miles²

Collection Distance: 0.2 km

Code	Species	Number	Weight (kg)	Pollution Tolerance	#	DELT Anomalies Description
25-002	<i>Oncorhynchus mykiss</i> Rainbow trout	3	4.5	--	0	---
40-016	<i>Catostomus commersonii</i> Common white sucker	6	0.11	Highly Tolerant	0	---
43-013	<i>Semotilus atromaculatus</i> Creek chub	3	0.05	Highly Tolerant	0	---
43-032	<i>Cyprinella spiloptera</i> Spotfin shiner	11	0.019	--	0	---
43-034	<i>Notropis stramineus</i> Sand shiner	4	0.004	Moderately Intolerant	0	---
43-035	<i>Notropis volucellus</i> Mimic Shiner	12	0.017	Common Intolerant	0	---
43-043	<i>Pimephales notatus</i> Bluntnose minnow	6	0.04	Highly Tolerant	0	---
47-004	<i>Ictalurus natalis</i> Yellow bullhead	17	0.768	Highly Tolerant	0	---
77-003	<i>Ambloplites rupestris</i> Northern rockbass	3	0.062	--	0	---
77-004	<i>Micropterus dolomieu</i> Smallmouth bass	1	0.015	Moderately Intolerant	0	---
77-006	<i>Micropterus salmoides</i> Largemouth bass	3	0.07	--	0	---
77-009	<i>Lepomis macrochirus</i> Northern bluegill sunfish	23	0.225	Moderately Tolerant	0	---
77-013	<i>Lepomis gibbosus</i> Pumpkinseed sunfish	70	1.4	Moderately Tolerant	0	---
80-011	<i>Percina caprodes</i> Northern logperch darter	32	0.17	Moderately Intolerant	0	---

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85-001	<i>Aplodinotus grunniens</i> Freshwater drum	1	1.15	Moderately Tolerant	0	---
87-001	<i>Neogobius melanostomus</i> Round goby	31	0.125	--	0	---
	Totals	<u><u>226</u></u>	<u><u>8.725</u></u>		<u><u>0</u></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) =	7.3 (Fair)
Shannon Diversity Index, no.	2.184
Shannon Diversity Index, wt.	1.571
N	240
B	4.698