

**Euclid Creek Upstream of St. Clair Avenue**  
**June 16, 2017**  
**River Mile: 1.65**  
**Collection Method: Longline Electrofishing**  
**Drainage Area: 21.8 miles<sup>2</sup>**  
**Collection Distance: 0.2 km**

Code	Species	Number	Weight (kg)	Pollution Tolerance	DELT Anomalies #	Description
40-016	<i>Catostomus commersonii</i> Common white sucker	16	0.515	Highly Tolerant	0	---
43-011	<i>Rhinichthys atratulus</i> Blacknose dace	181	0.51	Highly Tolerant	0	---
43-013	<i>Semotilus atromaculatus</i> Creek chub	177	1.7	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	17	0.101	Highly Tolerant	0	---
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	142	1.395	--	0	---
47-004	<i>Ictalurus natalis</i> Yellow bullhead	1	0.05	Highly Tolerant	0	---
77-009	<i>Lepomis macrochirus</i> Northern bluegill sunfish	8	0.9	Moderately Tolerant	0	---
77-013	<i>Lepomis gibbosus</i> Pumpkinseed sunfish	1	0.06	Moderately Tolerant	0	---
Totals		<u>545</u>	<u>5.241</u>		<u>0</u>	

\*DELT anomalies were observed on 0.00 % of the fish collected.  
 Index of Biotic Integrity (IBI) = 30 (Fair)  
 Modified Index of Well-Being (MIwb) = 6.4 (Fair)  
 Shannon Diversity Index, no. 1.399  
 Shannon Diversity Index, wt. 1.658  
 N 226.5  
 B 3.533

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Code	Species	Number	Weight (kg)	Pollution Tolerance	DELT Anomalies #	DELT Anomalies Description
40-016	<i>Catostomus commersonii</i> Common white sucker	1	0.14	Highly Tolerant	0	---
43-011	<i>Rhinichthys atratulus</i> Blacknose dace	200	0.592	Highly Tolerant	0	---
43-013	<i>Semotilus atromaculatus</i> Creek chub	181	2.034	Highly Tolerant	0	---
43-043	<i>Pimephales notatus</i> Bluntnose minnow	2	0.012	Highly Tolerant	0	---
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	111	1	--	0	---
Totals		<u>495</u>	<u>3.778</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) = 5.0 (Poor)  
 Shannon Diversity Index, no. 1.104  
 Shannon Diversity Index, wt. 1.116  
 N 166.5  
 B 1.5

**Euclid Creek Downstream of Lakeshore Boulevard**

**June 16, 2017**

**River Mile: 0.55**

**Collection Method: Boat Electrofishing**

**Drainage Area: 23 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>
40-016	<i>Catostomus commersonii</i> Common white sucker	27	0.55	Highly Tolerant	0	---
43-001	<i>Cyprinus carpio</i> Common carp	1	0.88	Highly Tolerant	0	---
43-013	<i>Semotilus atromaculatus</i> Creek chub	133	1.258	Highly Tolerant	0	---
43-032	<i>Cyprinella spiloptera</i> Spotfin shiner	3	0.02	--	0	---
43-035	<i>Notropis volucellus</i> Mimic Shiner	28	0.6	Common Intolerant	0	---
43-043	<i>Pimephales notatus</i> Bluntnose minnow	34	0.1	Highly Tolerant	0	---
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	7	0.02	--	0	---
47-004	<i>Ictalurus natalis</i> Yellow bullhead	15	0.86	Highly Tolerant	0	---
77-003	<i>Ambloplites rupestris</i> Northern rockbass	5	0.515	--	0	---
77-004	<i>Micropterus dolomieu</i> Smallmouth bass	1	0.021	Moderately Intolerant	0	---
77-006	<i>Micropterus salmoides</i> Largemouth bass	3	0.892	--	0	---
77-007	<i>Lepomis gulosus</i> Warmouth sunfish	1	0.028	--	0	---
77-009	<i>Lepomis macrochirus</i> Northern bluegill sunfish	28	0.35	Moderately Tolerant	0	---
77-013	<i>Lepomis gibbosus</i> Pumpkinseed sunfish	6	0.045	Moderately Tolerant	0	---
77-014	<i>HYBRID</i> Bluegill X Pumpkinseed	1	0.021	--	0	---

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87-001	<i>Neogobius melanostomus</i>	24	0.14	--	0	---
	Round goby					

Totals	<u>317</u>	<u>6.300</u>			<u>0</u>	
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*DELT anomalies were observed on	0.00	% of the fish collected.
Index of Biotic Integrity (IBI) =	28	(Fair)
Modified Index of Well-Being (MIwb) =	8.5	(Marginally Good)
Shannon Diversity Index, no.	1.968	
Shannon Diversity Index, wt.	2.232	
N	410	
B	12.46	

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**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	8	0.02	--	0	---
40-011	<i>Moxostoma macrolepidotum</i> Shorthead redhorse	1	0.09	Moderately Intolerant	0	---
40-016	<i>Catostomus commersonii</i> Common white sucker	22	0.76	Highly Tolerant	1	Deformity
43-011	<i>Rhinichthys atratulus</i> Blacknose dace	6	0.019	Highly Tolerant	0	---
43-013	<i>Semotilus atromaculatus</i> Creek chub	87	1.015	Highly Tolerant	0	---
43-032	<i>Cyprinella spiloptera</i> Spotfin shiner	1	0.01	--	0	---
43-034	<i>Notropis stramineus</i> Sand shiner	8	0.015	Moderately Intolerant	0	---
43-035	<i>Notropis volucellus</i> Mimic Shiner	17	0.04	Common Intolerant	0	---
43-039	<i>Ericymba buccata</i> Silverjaw minnow	23	0.04	--	0	---
43-043	<i>Pimephales notatus</i> Bluntnose minnow	24	0.062	Highly Tolerant	0	---
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	5	0.012	--	0	---
47-004	<i>Ictalurus natalis</i> Yellow bullhead	17	0.91	Highly Tolerant	0	---
47-005	<i>Ictalurus nebulosus</i> Brown bullhead	1	0.105	Highly Tolerant	1	Erosion
74-003	<i>Morone americana</i> White perch	1	0.005	--	0	---
77-003	<i>Ambloplites rupestris</i> Northern rockbass	9	0.37	--	0	---

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77-004	<i>Micropterus dolomieu</i> Smallmouth bass	5	0.05	Moderately Intolerant	0	---
77-006	<i>Micropterus salmoides</i> Largemouth bass	6	0.03	--	0	---
77-008	<i>Lepomis cyanellus</i> Green sunfish	4	0.06	Highly Tolerant	0	---
77-009	<i>Lepomis macrochirus</i> Northern bluegill sunfish	177	1.83	Moderately Tolerant	1	Lesion
77-013	<i>Lepomis gibbosus</i> Pumpkinseed sunfish	36	0.528	Moderately Tolerant	0	---
80-003	<i>Perca flavescens</i> Yellow perch	2	0.021	--	0	---
87-001	<i>Neogobius melanostomus</i> Round goby	25	0.076	--	0	---
Totals		<u>485</u>	<u>6.068</u>		<u>3</u>	

*DELT anomalies were observed on	0.62	% of the fish collected.
Index of Biotic Integrity (IBI) =	40	(Good)
Modified Index of Well-Being (MIwb) =	8.1	(Good)
Shannon Diversity Index, no.	2.216	
Shannon Diversity Index, wt.	2.1	
N	447	
B	4.584	