

Euclid Creek Upstream of St. Clair Avenue
June 15, 2011
River Mile: 1.65
Collection Method: Longline Electroshocking
Drainage Area: 21.8 miles²
Collection Distance: 0.2 km

<u>Species</u>	<u>Number</u>	<u>Weight (kg)</u>	<u>Pollution Tolerance</u>	<u>#</u>	<u>DELT Anomalies Description</u>
<i>Catostomus commersonii</i> Common white sucker	49	1.598	Highly Tolerant	0	--
<i>Carassius auratus</i> Goldfish	1	0.044	Highly Tolerant	0	--
<i>Rhinichthys atratulus</i> Western blacknose dace	151	0.348	Highly Tolerant	0	--
<i>Semotilus atromaculatus</i> Creek chub	89	0.900	Highly Tolerant	0	--
<i>Pimephales notatus</i> Bluntnose minnow	2	0.002	Highly Tolerant	0	--
<i>Campostoma anomalum</i> Central stoneroller minnow	71	0.732	--	0	--
<i>Lepomis macrochirus</i> Northern bluegill sunfish	1	0.006	Moderately Tolerant	0	--
<i>Lepomis gibbosus</i> Pumpkinseed sunfish	2	0.038	Moderately Tolerant	0	--
Totals	<u>366</u>	<u>3.668</u>		<u>0</u>	

*DELT anomalies were observed on 0.00 % of the fish collected.
 Index of Biotic Integrity (IBI) = 26 (Poor)
 Modified Index of Well-Being (MIwb) 5.2 (Poor)
 Shannon Diversity Index, no. 1.386
 Shannon Diversity Index, wt. 1.367
 N 111
 B 1.164

Euclid Creek Upstream of St. Clair Avenue
July 22, 2011
River Mile: 1.65
Collection Method: Longline Electroshocking
Drainage Area: 21.8 miles²
Collection Distance: 0.2 km

<u>Species</u>	<u>Number</u>	<u>Weight (kg)</u>	<u>Pollution Tolerance</u>	<u>#</u>	<u>DELTA Anomalies Description</u>
<i>Catostomus commersonii</i> Common white sucker	29	0.940	Highly Tolerant	0	--
<i>Rhinichthys atratulus</i> Western blacknose dace	180	0.642	Highly Tolerant	0	--
<i>Semotilus atromaculatus</i> Creek chub	118	1.700	Highly Tolerant	0	--
<i>Camptostoma anomalum</i> Central stoneroller minnow	63	0.310	--	0	--
<i>Lepomis gibbosus</i> Pumpkinseed sunfish	1	0.050	Moderately Tolerant	0	--
<i>HYBRID</i> Bluegill X Pumpkinseed	1	0.020	--	0	
Totals	<u>392</u>	<u>3.662</u>		<u>0</u>	

*DELTA anomalies were observed on 0.00 % of the fish collected.
 Index of Biotic Integrity (IBI) = 24 (Poor)
 Modified Index of Well-Being (MIwb) 4.5 (Poor)
 Shannon Diversity Index, no. 1.236
 Shannon Diversity Index, wt. 1.307
 N 96
 B 0.54

Euclid Creek Downstream of Lakeshore Boulevard

June 15, 2011

River Mile: 0.55

Collection Method: Longline Electroshocking

Drainage Area: 23.0 miles²

Collection Distance: 0.2 km

<u>Species</u>	<u>Number</u>	<u>Weight (kg)</u>	<u>Pollution Tolerance</u>	<u>#</u>	<u>DELT Anomalies Description</u>
<i>Catostomus commersonii</i> Common white sucker	61	1.834	Highly Tolerant	0	--
<i>Rhinichthys atratulus</i> Western blacknose dace	5	0.022	Highly Tolerant	0	--
<i>Semotilus atromaculatus</i> Creek chub	143	1.550	Highly Tolerant	0	--
<i>Notropis atherinoides</i> Common Emerald shiner	1	0.012	--	0	--
<i>Notropis volucellus</i> Mimic Shiner	1	0.010	Common Intolerant	0	
<i>Pimephales promelas</i> Northern fathead minnow	1	0.020	Highly Tolerant	0	--
<i>Pimephales notatus</i> Bluntnose minnow	27	0.100	Highly Tolerant	0	--
<i>Campostoma anomalum</i> Central stoneroller minnow	41	0.422	--	0	--
<i>Ictalurus natalis</i> Yellow bullhead	1	0.500	Highly Tolerant	0	--
<i>Ictalurus nebulosus</i> Brown bullhead	8	4.050	Highly Tolerant	3	roded barbels & multip
<i>Ambloplites rupestris</i> Northern rockbass	3	0.358	--	1	Lesion
<i>Micropterus dolomieu</i> Smallmouth bass	2	0.982	Moderately Intolerant	0	--
<i>Lepomis macrochirus</i> Northern bluegill sunfish	14	0.070	Moderately Tolerant	0	--
<i>Lepomis gibbosus</i> Pumpkinseed sunfish	7	0.112	Moderately Tolerant	0	--
<i>HYBRID</i> Bluegill X Pumpkinseed	1	0.006	--	0	

Euclid Creek Downstream of Lakeshore Boulevard

June 15, 2011

River Mile: 0.55

<i>Neogobius melanostomus</i>	1	0.012	--	0	--
Round goby					

Totals	<u>317</u>	<u>10.060</u>		<u>4</u>	
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*DELT anomalies were observed on 1.26 % of the fish collected.

Index of Biotic Integrity (IBI) = 24 (Poor)

Modified Index of Well-Being (MIwb) 6.4 (Fair)

Shannon Diversity Index, no. 1.716

Shannon Diversity Index, wt. 1.776

N 103.5

B 2.949

Euclid Creek Downstream of Lakeshore Boulevard
July 18, 2011
River Mile: 0.55
Collection Method: Longline Electroshocking
Drainage Area: 23.0 miles²
Collection Distance: 0.2 km

<u>Species</u>	<u>Number</u>	<u>Weight (kg)</u>	<u>Pollution Tolerance</u>	<u>#</u>	<u>DELT Anomalies Description</u>
<i>Dorosoma cepedianum</i> Eastern gizzard shad	9	0.660	--	0	--
<i>Oncorhynchus mykiss</i> Rainbow trout	3	0.140	--	0	--
<i>Carpoides cyprinus</i> Central quillback carpsucker	8	0.014	--	0	--
<i>Catostomus commersonii</i> Common white sucker	84	4.972	Highly Tolerant	1	Deformity
<i>Semotilus atromaculatus</i> Creek chub	147	1.728	Highly Tolerant	1	Deformity
<i>Notropis atherinoides</i> Common Emerald shiner	4	0.008	--	0	--
<i>Cyprinella spiloptera</i> Spotfin shiner	1	0.006	--	0	--
<i>Notropis volucellus</i> Mimic Shiner	1	0.006	Common Intolerant	0	
<i>Pimephales notatus</i> Bluntnose minnow	24	0.840	Highly Tolerant	0	--
<i>Campostoma anomalum</i> Central stoneroller minnow	29	0.225	--	0	--
<i>Ictalurus natalis</i> Yellow bullhead	5	0.575	Highly Tolerant	3	Lesions
<i>Ictalurus nebulosus</i> Brown bullhead	13	4.256	Highly Tolerant	1	Lesion
<i>Ambloplites rupestris</i> Northern rockbass	3	0.062	--	0	--
<i>Lepomis cyanellus</i> Green sunfish	2	0.020	Highly Tolerant	0	--
<i>Lepomis macrochirus</i> Northern bluegill sunfish	32	0.418	Moderately Tolerant	0	--

Euclid Creek Downstream of Lakeshore Boulevard

July 18, 2011

River Mile: 0.55

<i>Lepomis gibbosus</i> Pumpkinseed sunfish	53	0.743	Moderately Tolerant	0	--
<i>Neogobius melanostomus</i> Round goby	2	0.012	--	0	--
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Totals	<u>420</u>	<u>14.685</u>		<u>6</u>	

*DELT anomalies were observed on 1.43 % of the fish collected.

Index of Biotic Integrity (IBI) = 28 (Fair)

Modified Index of Well-Being (MIwb) 7.1 (Fair)

Shannon Diversity Index, no. 2.008

Shannon Diversity Index, wt. 1.823

N 210

B 3.213