

**Big Creek**  
**July 3, 2014**  
**River Mile: 1.00**  
**Collection Method: Longline Electrofishing**  
**Drainage Area: 36.9 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	2	0.200	Highly Tolerant	0	---
43-013	<i>Semotilus atromaculatus</i> Creek chub	17	0.580	Highly Tolerant	2	Lesion
43-032	<i>Cyprinella spiloptera</i> Spotfin shiner	1	0.024	--	0	---
43-043	<i>Pimephales notatus</i> Bluntnose minnow	3	0.038	Highly Tolerant	0	---
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	13	0.092	--	0	---
47-004	<i>Ictalurus natalis</i> Yellow bullhead	9	0.640	Highly Tolerant	2	Lesion
77-008	<i>Lepomis cyanellus</i> Green sunfish	6	0.104	Highly Tolerant	0	---
Totals		<u>51</u>	<u>1.678</u>		<u>4</u>	

\*DELT anomalies were observed on 7.84 % of the fish collected.  
 Index of Biotic Integrity (IBI) = 18 (Poor)  
 Modified Index of Well-Being (MIwb) = 3.8 (Very Poor)  
 Shannon Diversity Index, no. 1.643  
 Shannon Diversity Index, wt. 1.466  
 N 21  
 B 0.174

**Big Creek**  
**September 3, 2014**  
**River Mile: 1.00**  
**Collection Method: Longline Electrofishing**  
**Drainage Area: 36.9 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	29	1.170	Highly Tolerant	0	---
43-011	<i>Rhinichthys atratulus</i> Western blacknose dace	20	0.057	Highly Tolerant	0	---
43-013	<i>Semotilus atromaculatus</i> Creek chub	279	1.760	Highly Tolerant	0	---
43-026	<i>Notropis cornutus</i> Common shiner	3	0.020	--	0	---
43-034	<i>Notropis stramineus</i> Sand shiner	28	0.034	Moderately Intolerant	0	---
43-043	<i>Pimephales notatus</i> Bluntnose minnow	18	0.042	Highly Tolerant	0	---
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	516	0.679	--	0	---
47-004	<i>Ictalurus natalis</i> Yellow bullhead	8	0.440	Highly Tolerant	0	---
77-008	<i>Lepomis cyanellus</i> Green sunfish	8	0.083	Highly Tolerant	0	---
Totals		<u>909</u>	<u>4.285</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) = 6.1 (Fair)  
 Shannon Diversity Index, no. 1.165  
 Shannon Diversity Index, wt. 1.488  
 N 820.5  
 B 1.1

**Big Creek Downstream of Jennings Road**  
**July 11, 2014**  
**River Mile: 0.15**  
**Collection Method: Boat Electroshocking**  
**Drainage Area: 37.1 miles<sup>2</sup>**  
**Collection Distance: 0.28 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>
37-003	<i>Esox lucius</i> Northern pike	1	0.050	--	0	---
40-010	<i>Moxostoma erythrurum</i> Golden redbhorse	2	1.090	Moderately Intolerant	0	---
40-015	<i>Hypentelium nigricans</i> Northern hog sucker	1	0.194	Moderately Intolerant	0	---
40-016	<i>Catostomus commersonii</i> Common white sucker	12	1.474	Highly Tolerant	0	---
43-002	<i>Carassius auratus</i> Goldfish	11	1.930	Highly Tolerant	0	---
47-002	<i>Ictalurus punctatus</i> Channel catfish	2	2.225	--	1	Erosion
47-004	<i>Ictalurus natalis</i> Yellow bullhead	14	1.250	Highly Tolerant	1	Erosion
47-005	<i>Ictalurus nebulosus</i> Brown bullhead	1	0.240	Highly Tolerant	0	---
77-003	<i>Ambloplites rupestris</i> Northern rockbass	1	0.150	--	0	---
77-004	<i>Micropterus dolomieu</i> Smallmouth bass	12	2.485	Moderately Intolerant	0	---
77-006	<i>Micropterus salmoides</i> Largemouth bass	2	0.012	--	0	---
77-008	<i>Lepomis cyanellus</i> Green sunfish	6	0.102	Highly Tolerant	0	---
77-009	<i>Lepomis macrochirus</i> Northern bluegill sunfish	11	0.590	Moderately Tolerant	0	---
77-013	<i>Lepomis gibbosus</i> Pumpkinseed sunfish	2	0.150	Moderately Tolerant	0	---
85-001	<i>Aplodinotus grunniens</i> Freshwater drum	1	0.525	Moderately Tolerant	0	---

**Big Creek Downstream of Jennings Road**

**July 11, 2014**

**River Mile: 0.15**

87-001	<i>Neogobius melanostomus</i> Round goby	1	0.020	--	0	---
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Totals	<u>80</u>	<u>12.487</u>			<u>2</u>	
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*DELT anomalies were observed on	2.50	% of the fish collected.
Index of Biotic Integrity (IBI) =	28	(Fair)
Modified Index of Well-Being (MIwb) =	8.6	(Marginally Good)
Shannon Diversity Index, no.	2.312	
Shannon Diversity Index, wt.	2.215	
N	125	
B	26.68	