

Big Creek Downstream From Jennings Road  
September 23, 2009

**Collection Distance: 0.2 km**  
**Collection Method: Longline Electroshocking**  
**Drainage Area: 37.1 miles<sup>2</sup>**  
**River Mile: 0.15**

<u>Species</u>	<u>Number</u>	<u>Weight (kg)</u>	<u>Pollution Tolerance</u>	<u>#</u>	<u>DELT Anomalies Description</u>
<i>Hypentelium nigricans</i> Northern hog sucker	4	0.740	Moderately Intolerant	0	--
<i>Catostomus commersonii</i> Common white sucker	40	1.300	Highly Tolerant	0	--
<i>Carassius auratus</i> Goldfish	1	0.130	Highly Tolerant	1	Lesion
<i>Rhinichthys atratulus</i> Western blacknose dace	1	0.006	Highly Tolerant	0	--
<i>Semotilus atromaculatus</i> Creek chub	2	0.004	Highly Tolerant	0	--
<i>Notropis stramineus</i> Sand shiner	1	0.006	Moderately Intolerant	0	--
<i>Pimephales notatus</i> Bluntnose minnow	4	0.034	Highly Tolerant	0	--
<i>Campostoma anomalum</i> Central stoneroller minnow	21	0.100	--	0	--
<i>Ictalurus natalis</i> Yellow bullhead	13	1.040	Highly Tolerant	0	--
<i>Lepomis macrochirus</i> Northern bluegill sunfish	4	0.165	Moderately Tolerant	0	--
<i>Percina caprodes</i> Northern logperch darter	1	0.018	Moderately Intolerant	0	--
<i>Neogobius melanostomus</i> Round goby	42	0.405	--	0	--
Totals	<u>134</u>	<u>3.948</u>		<u>1</u>	

\*DELT anomalies were observed on 0.75 % of the fish collected.  
Index of Biotic Integrity (IBI) = 26 (Poor)  
Modified Index of Well-Being (MIwb) 5.6 (Poor)  
Shannon Diversity Index, wt. 1.765  
Shannon Diversity Index, no. 1.695

Big Creek Downstream From Jennings Road  
September 23, 2009

N	46.5
B	1.544

Big Creek at West 150th Street  
September 23, 2009

**Collection Distance: 0.15 km**  
**Collection Method: Longline Electroshocking**  
**Drainage Area: 4.3 miles<sup>2</sup>**  
**River Mile: 4.70**

<u>Species</u>	<u>Number</u>	<u>Weight (kg)</u>	<u>Pollution Tolerance</u>	<u>#</u>
<i>Catostomus commersonii</i> Common white sucker	69	0.000	Highly Tolerant	0
<i>Carassius auratus</i> Goldfish	2	0.000	Highly Tolerant	0
<i>Pimephales promelas</i> Northern fathead minnow	777	0.000	Highly Tolerant	1
<i>Campostoma anomalum</i> Central stoneroller minnow	1	0.000	--	0
<i>Micropterus salmoides</i> Largemouth bass	3	0.000	--	0
Totals	<u>852</u>	<u>0.000</u>		<u>1</u>

\*DELT anomalies were observed on 0.1 of the fish collected.  
Index of Biotic Integrity (IBI) = 16 (Very Poor)

Big Creek at Memphis Park  
September 23, 2009

Collection Distance: 0.15 km  
Collection Method: Longline Electroshocking  
Drainage Area: 19.3 miles<sup>2</sup>  
River Mile: 4.40

<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	84	0.000	Highly Tolerant	0	--
<i>Rhinichthys atratulus</i> Western blacknose dace	172	0.000	Highly Tolerant	0	--
<i>Semotilus atromaculatus</i> Creek chub	69	0.000	Highly Tolerant	0	--
<i>Notropis dorsalis</i> Bigmouth Shiner	7	0.000	--	0	
<i>Notropis stramineus</i> Sand shiner	7	0.000	Moderately Intolerant	0	--
<i>Pimephales promelas</i> Northern fathead minnow	1	0.000	Highly Tolerant	0	--
<i>Pimephales notatus</i> Bluntnose minnow	51	0.000	Highly Tolerant	0	--
<i>Campostoma anomalum</i> Central stoneroller minnow	1127	0.000	--	0	--
Totals	<u>1518</u>	<u>0.000</u>		<u>0</u>	

\*DELT anomalies were observed on 0.0 of the fish collected.  
Index of Biotic Integrity (IBI) = 36 (Marginally Good)