

**Big Creek-Ford Branch at West 150th Street
9/20/07**

**Collection Distance: 0.15 km
Collection Method: Longline Electroshocking
Drainage Area: 4.3 miles²
River Mile: 4.70**

<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	7	0.323	Highly Tolerant	0	--
<i>Carassius auratus</i> Goldfish	12	0.562	Highly Tolerant	0	--
<i>Pimephales promelas</i> Northern fathead minnow	696	1.345	Highly Tolerant	0	--
Totals	<u>715</u>	<u>2.230</u>		<u>0</u>	

*DELTA anomalies were observed on 0.0 of the fish collected.
Index of Biotic Integrity (IBI) = 12 (Very Poor)

Big Creek at Memphis Park

9/14/07

Collection Distance: 0.15 km

Collection Method: Longline Electroshocking

Drainage Area: 19.3 miles²

River Mile: 4.40

<u>Species</u>	<u>Number</u>	<u>Weight (kg)</u>	<u>Pollution Tolerance</u>	<u>#</u>
<i>Catostomus commersonii</i> Common white sucker	13	0.080	Highly Tolerant	0
<i>Rhinichthys atratulus</i> Western blacknose dace	112	0.452	Highly Tolerant	0
<i>Semotilus atromaculatus</i> Creek chub	21	0.078	Highly Tolerant	0
<i>Notropis stramineus</i> Sand shiner	2	0.004	Moderately Intolerant	0
<i>Pimephales promelas</i> Northern fathead minnow	5	0.032	Highly Tolerant	0
<i>Pimephales notatus</i> Bluntnose minnow	57	0.200	Highly Tolerant	0
<i>Campostoma anomalum</i> Central stoneroller minnow	632	2.342	--	0
<i>Lepomis cyanellus</i> Green sunfish	3	0.018	Highly Tolerant	0
Totals	<u>845</u>	<u>3.206</u>		<u>0</u>

*DELT anomalies were observed on 0.0 of the fish collected.
Index of Biotic Integrity (IBI) = 34 (Fair)

**Big Creek Downstream from Jennings Road
8/31/07**

**Collection Distance: 0.2 km
Collection Method: Longline Electroshocking
Drainage Area: 37 miles²
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	2	0.272	Moderately Intolerant	0	--
<i>Catostomus commersonii</i> Common white sucker	32	0.124	Highly Tolerant	0	--
<i>Campostoma anomalum</i> Central stoneroller minnow	4	0.010	--	0	--
<i>Ictalurus natalis</i> Yellow bullhead	4	0.192	Highly Tolerant	0	--
<i>Ictalurus nebulosus</i> Brown bullhead	1	0.060	Highly Tolerant	0	--
<i>Pomoxis nigromaculatus</i> Black crappie	1	0.062	--	0	--
<i>Micropterus salmoides</i> Largemouth bass	2	0.014	--	0	--
<i>Lepomis macrochirus</i> Northern bluegill sunfish	8	0.124	Moderately Tolerant	0	--
<i>Lepomis gibbosus</i> Pumpkinseed sunfish	2	0.062	Moderately Tolerant	0	--
<i>Neogobius melanostomus</i> Round goby	1	0.022	--	0	--
Totals	<u>57</u>	<u>0.942</u>		<u>0</u>	

*DELT anomalies were observed on 0.00 % of the fish collected.
 Index of Biotic Integrity (IBI) = 16 (Poor)
 Modified Index of Well-Being (MIwb) 5.1 (Poor)
 Shannon Diversity Index, wt. 1.538
 Shannon Diversity Index, no. 1.949
 N 28.5
 B 0.816

**Big Creek Downstream from Jennings Road
10/04/07**

**Collection Distance: 0.2 km
Collection Method: Longline Electroshocking
Drainage Area: 37 miles²
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	7	1.000	Moderately Intolerant	0	--
<i>Catostomus commersonii</i> Common white sucker	23	0.934	Highly Tolerant	0	--
<i>Cyprinus carpio</i> Common carp	1	0.022	Highly Tolerant	0	--
<i>Campostoma anomalum</i> Central stoneroller minnow	9	0.032	--	0	--
<i>Ictalurus natalis</i> Yellow bullhead	6	0.448	Highly Tolerant	1	Lesion
<i>Micropterus dolomieu</i> Smallmouth bass	1	0.320	Moderately Intolerant	0	--
<i>Micropterus salmoides</i> Largemouth bass	1	0.006	--	0	--
<i>Lepomis cyanellus</i> Green sunfish	2	0.006	Highly Tolerant	0	--
<i>Lepomis macrochirus</i> Northern bluegill sunfish	5	0.026	Moderately Tolerant	0	--
Totals	<u>55</u>	<u>2.794</u>		<u>1</u>	

*DELT anomalies were observed on 1.82 % of the fish collected.
 Index of Biotic Integrity (IBI) = 16 (Poor)
 Modified Index of Well-Being (MIwb) 5.3 (Poor)
 Shannon Diversity Index, wt. 1.722
 Shannon Diversity Index, no. 1.435
 N 34.5
 B 2.076