

Cuyahoga River Downstream of Tinkers Creek

August 20, 2010

River Mile: 16.20

Collection Method: Boat Electroshocking

Drainage Area: 696 miles²

Collection Distance: 0.5 km

Species	Number	Weight (kg)	Pollution Tolerance	#	DELT Anomalies Description
Dorosoma cepedianum Eastern gizzard shad	33	1.850	--	0	---
Carpoides cyprinus Central quillback carpsucker	1	0.340	--	0	---
Moxostoma erythrurum Golden redhorse	15	9.100	Moderately Intolerant	3	Erosion/Lesions
Moxostoma macrolepidotum Shorthead redhorse	3	2.100	Moderately Intolerant	0	---
Hypentelium nigricans Northern hog sucker	57	5.448	Moderately Intolerant	0	---
Catostomus commersonii Common white sucker	20	8.100	Highly Tolerant	1	Lesion
Minytrema melanops Spotted Sucker	3	0.300	--	0	---
Cyprinus carpio Common carp	1	3.700	Highly Tolerant	0	---
Semotilus atromaculatus Creek chub	1	0.010	Highly Tolerant	0	---
Notropis atherinoides Common Emerald shiner	2	0.020	--	0	---
Notropis cornutus Common shiner	19	0.120	--	0	---
Cyprinella spiloptera Spotfin shiner	93	0.266	--	1	Deformity
Notropis stramineus Sand shiner	54	0.110	Moderately Intolerant	0	---
Pimephales notatus Bluntnose minnow	16	0.034	Highly Tolerant	0	---
Campostoma anomalum Central stoneroller minnow	4	0.080	--	0	---

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Ictalurus punctatus Channel catfish	2	0.570	--	0	---
Ictalurus natalis Yellow bullhead	3	0.320	Highly Tolerant	0	---
Morone americana White perch	5	0.910	--	0	---
Ambloplites rupestris Northern rockbass	5	0.472	--	0	---
Micropterus dolomieu Smallmouth bass	26	2.250	Moderately Intolerant	0	---
Micropterus salmoides Largemouth bass	1	0.010	--	0	---
Lepomis cyanellus Green sunfish	3	0.048	Highly Tolerant	0	---
Lepomis macrochirus Northern bluegill sunfish	7	0.250	Moderately Tolerant	0	---
Lepomis humilis Orangespotted Sunfish	1	0.030	--	0	---
Lepomis gibbosus Pumpkinseed sunfish	7	0.160	Moderately Tolerant	0	---
HYBRID Green SF X Pumpkinseed	1	0.040	--	0	---
Sander vitreus Walleye	1	0.270	--	0	---
Percina caprodes Northern logperch darter	5	0.092	Moderately Intolerant	0	---
Etheostoma blenniodes Greenside darter	2	0.010	Moderately Intolerant	0	---
Aplodinotus grunniens Freshwater drum	2	1.840	Moderately Tolerant	0	---
Totals	<u>393</u>	<u>38.850</u>		<u>5</u>	

*DELT anomalies were observed on	1.272	% of the fish collected.
Index of Biotic Integrity (IBI) =	46	(Very Good)
Modified Index of Well-Being (MIwb) =	10.1	(Exceptional)

**Cuyahoga River Downstream of Tinkers Creek
August 20, 2010**

River Mile: 16.20

Shannon Diversity Index, no.	2.554
Shannon Diversity Index, wt.	2.323
N	686
B	51.38

Cuyahoga River Downstream of Southerly WWTC

July 16, 2010

River Mile: 10.10

Collection Method: Boat Electroshocking

Drainage Area: 744 miles²

Collection Distance: 0.5 km

Species	Number	Weight (kg)	Pollution Tolerance	DELT # Anomalies	Description
Dorosoma cepedianum Eastern gizzard shad	4	0.152	--	0	---
Moxostoma erythrurum Golden redhorse	8	2.800	Moderately Intolerant	0	---
Moxostoma macrolepidotum Shorthead redhorse	4	0.360	Moderately Intolerant	0	---
Hypentelium nigricans Northern hog sucker	45	3.100	Moderately Intolerant	0	---
Catostomus commersonii Common white sucker	30	4.352	Highly Tolerant	1	Deformity
Cyprinus carpio Common carp	8	22.080	Highly Tolerant	0	---
Rhinichthys atratulus Western blacknose dace	1	0.002	Highly Tolerant	0	---
Semotilus atromaculatus Creek chub	1	0.002	Highly Tolerant	0	---
Notropis atherinoides Common Emerald shiner	4	0.018	--	0	---
Cyprinella spiloptera Spotfin shiner	29	0.125	--	0	---
Notropis stramineus Sand shiner	9	0.030	Moderately Intolerant	0	---
Pimephales notatus Bluntnose minnow	9	0.040	Highly Tolerant	0	---
Ictalurus punctatus Channel catfish	7	7.100	--	1	Erosion
Ictalurus natalis Yellow bullhead	5	0.860	Highly Tolerant	1	Erosion
Morone americana White perch	2	0.232	--	0	---

**Cuyahoga River Downstream of Southerly WWTC
July 16, 2010**

River Mile: 10.10

Ambloplites rupestris Northern rockbass	1	0.150	--	0	---
Micropterus dolomieu Smallmouth bass	7	1.450	Moderately Intolerant	0	---
Micropterus salmoides Largemouth bass	3	0.010	--	0	---
Lepomis macrochirus Northern bluegill sunfish	2	0.040	Moderately Tolerant	0	---
Lepomis gibbosus Pumpkinseed sunfish	2	0.010	Moderately Tolerant	0	---
Sander vitreus Walleye	1	0.190	--	0	---
Percina caprodes Northern logperch darter	14	0.132	Moderately Intolerant	0	---
Neogobius melanostomus Round goby	11	0.088	--	0	---
Totals	<u>207</u>	<u>43.323</u>		<u>3</u>	

*DELT anomalies were observed on	1.449	% of the fish collected.
Index of Biotic Integrity (IBI) =	38	(Marginally Good)
Modified Index of Well-Being (MIwb) =	8.8	(Good)
Shannon Diversity Index, no.	2.596	
Shannon Diversity Index, wt.	1.632	
N	280	
B	31.33	