

**Wiley Creek**  
**9/11/2013**  
**River Mile: 1.00**  
**Collection Method: Backpack Electroshocking**  
**Drainage Area: 4.0 miles<sup>2</sup>**  
**Collection Distance: 0.15 km**

<b>Species</b>	<b>Number</b>	<b>Pollution Tolerance</b>	<b>DELT Anomalies #</b>	<b>Description</b>
Catostomus commersonii Common white sucker	8	Highly Tolerant	0	---
Rhinichthys atratulus Western blacknose dace	103	Highly Tolerant	0	---
Semotilus atromaculatus Creek chub	92	Highly Tolerant	0	---
Campostoma anomalum Central stoneroller minnow	46	--	0	---
Totals	<u>249</u>		<u>0</u>	

\*DELT anomalies were observed on 0.0 % of the fish collected.  
 Index of Biotic Integrity (IBI) = 24 (Poor)

**Unnamed Tributary to Pepper-Luce Creek**  
**9/27/2013**  
**River Mile: 0.30**  
**Collection Method: Backpack Electrofishing**  
**Drainage Area: 0.5 miles<sup>2</sup>**  
**Collection Distance: 0.15 km**

Species	Number	Pollution Tolerance	DELT Anomalies #	Description
Rhinichthys atratulus Western blacknose dace	41	Highly Tolerant	0	---
Semotilus atromaculatus Creek chub	23	Highly Tolerant	0	---
Micropterus salmoides Largemouth bass	13	--	0	---
Lepomis macrochirus Northern bluegill sunfish	2	Moderately Tolerant	0	---
Totals	<u>79</u>		<u>0</u>	

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

**Pepper-Luce Creek Downstream of Creekside WWTP**

**10/11/2013**

**River Mile: 3.30**

**Collection Method: Longline Electroshocking**

**Drainage Area: 7.1 miles<sup>2</sup>**

**Collection Distance: 0.15 km**

<b>Species</b>	<b>Number</b>	<b>Pollution Tolerance</b>	<b>DELTA Anomalies #</b>	<b>Description</b>
Catostomus commersonii Common white sucker	107	Highly Tolerant	0	---
Carassius auratus Goldfish	1	Highly Tolerant	0	---
Rhinichthys atratulus Western blacknose dace	87	Highly Tolerant	0	---
Semotilus atromaculatus Creek chub	89	Highly Tolerant	0	---
Pimephales promelas Northern fathead minnow	15	Highly Tolerant	0	---
Pimephales notatus Bluntnose minnow	239	Highly Tolerant	0	---
Camptostoma anomalum Central stoneroller minnow	859	--	1	Lesion
Ictalurus natalis Yellow bullhead	2	Highly Tolerant	0	---
<b>Totals</b>	<b><u>1399</u></b>		<b><u>1</u></b>	

\*DELTA anomalies were observed on 0.1 % of the fish collected.  
Index of Biotic Integrity (IBI) = 32 (Fair)

**Unnamed Tributary to Chagrin River Downstream of Quail Hollow WWTP**

**9/11/2013**

**River Mile: 0.10**

**Collection Method: Backpack Electroshocking**

**Drainage Area: 0.8 miles<sup>2</sup>**

**Collection Distance: 0.15 km**

<b>Species</b>	<b>Number</b>	<b>Pollution Tolerance</b>	<b>DELT Anomalies</b>	
			<b>#</b>	<b>Description</b>
Rhinichthys atratulus	282	Highly	0	---
Western blacknose dace		Tolerant		
Semotilus atromaculatus	162	Highly	0	---
Creek chub		Tolerant		
Campostoma anomalum	22	--	0	---
Central stoneroller minnow				
<b>Totals</b>	<b><u>466</u></b>		<b><u>0</u></b>	

\*DELT anomalies were observed on 0.0 % of the fish collected.  
 Index of Biotic Integrity (IBI) = 30 (Fair)

**Chagrin River  
October 11, 2013**

**River Mile: 22.60**

**Collection Method: Longline Electrofishing**

**Drainage Area: 152 miles<sup>2</sup>**

**Collection Distance: 0.2 km**

<b>Species</b>	<b>Number</b>	<b>Weight (kg)</b>	<b>Pollution Tolerance</b>	<b>#</b>	<b>DELT Anomalies Description</b>
Oncorhynchus mykiss Rainbow trout	1	2.300	--	0	---
Moxostoma erythrurum Golden redhorse	3	1.612	Moderately Intolerant	0	---
Moxostoma macrolepidotum Shorthead redhorse	4	1.042	Moderately Intolerant	0	---
Hypentelium nigricans Northern hog sucker	61	10.040	Moderately Intolerant	0	---
Catostomus commersonii Common white sucker	13	4.350	Highly Tolerant	0	---
Nocomis micropogon River Chub	12	0.400	Intolerant	0	---
Notropis rubellus Rosyface Shiner	12	0.052	Intolerant	0	---
Notropis chrysocephalus Striped shiner	26	0.682	--	0	---
Cyprinella spiloptera Spotfin shiner	1	0.010	--	0	---
Notropis stramineus Sand shiner	131	0.252	Moderately Intolerant	0	---
Ericymba buccata Silverjaw minnow	11	0.053	--	0	---
Pimephales notatus Bluntnose minnow	41	0.074	Highly Tolerant	0	---
Campostoma anomalum Central stoneroller minnow	33	0.665	--	0	---
Ambloplites rupestris Northern rockbass	1	0.055	--	0	---
Micropterus dolomieu Smallmouth bass	11	4.605	Moderately Intolerant	0	---

**Chagrin River  
October 11, 2013**

**River Mile: 22.60**

Lepomis macrochirus Northern bluegill sunfish	1	0.010	Moderately Tolerant	0	---
Etheostoma blenniodes Greenside darter	25	0.065	Moderately Intolerant	0	---
Etheostoma caeruleum Rainbow darter	39	0.051	Moderately Intolerant	0	---
Totals	<u>426</u>	<u>26.318</u>		<u>0</u>	

*DELT anomalies were observed on	0.00	% of the fish collected.
Index of Biotic Integrity (IBI) =	42	(Good)
Modified Index of Well-Being (MIwb) =	9.0	(Very Good)
Shannon Diversity Index, no.	2.252	
Shannon Diversity Index, wt.	1.865	
N	556.5	
B	29.39	