

Abram Creek Upstream of Middleburg Heights WWTP

8/23/2012

River Mile: 4.44

Collection Method: Longline Electroshocking

Drainage Area: 4.4 miles²

Collection Distance: 0.15 km

Species	Number	Pollution Tolerance	DELT Anomalies #	Description
Catostomus commersonii Common white sucker	36	Highly Tolerant	1	Lesion
Cyprinus carpio Common carp	3	Highly Tolerant	0	---
Semotilus atromaculatus Creek chub	17	Highly Tolerant	0	---
Pimephales promelas Northern fathead minnow	66	Highly Tolerant	0	---
Pimephales notatus Bluntnose minnow	9	Highly Tolerant	0	---
Ictalurus melas Black bullhead	4	Moderately Tolerant	0	---
Lepomis cyanellus Green sunfish	292	Highly Tolerant	1	Lesion
Lepomis macrochirus Northern bluegill sunfish	22	Moderately Tolerant	0	---
Lepomis gibbosus Pumpkinseed sunfish	1	Moderately Tolerant	0	---
HYBRID Green SF X Pumpkinseed	17	--	0	---
HYBRID Green SF X HYBRID	1	--	0	---
Totals	<u>468</u>		<u>2</u>	

*DELT anomalies were observed on 0.4 % of the fish collected.
Index of Biotic Integrity (IBI) = 22 (Poor)

Abram Creek Downstream of Brook Park WWTP

9/6/2012

River Mile: 3.65

Collection Method: Longline Electroshocking

Drainage Area: 7.3 miles²

Collection Distance: 0.15 km

Species	Number	Pollution Tolerance	DELT Anomalies #	Description
Catostomus commersonii Common white sucker	37	Highly Tolerant	1	Lesion
Semotilus atromaculatus Creek chub	98	Highly Tolerant	0	---
Pimephales promelas Northern fathead minnow	86	Highly Tolerant	0	---
Pimephales notatus Bluntnose minnow	49	Highly Tolerant	0	---
Lepomis cyanellus Green sunfish	40	Highly Tolerant	0	---
Totals	<u><u>310</u></u>		<u><u>1</u></u>	

*DELT anomalies were observed on 0.3 % of the fish collected.
 Index of Biotic Integrity (IBI) = 18 (Poor)

Abram Creek Upstream of Confluence with Rocky River

8/23/2012

River Mile: 0.04

Collection Method: Longline Electroshocking

Drainage Area: 10.8 miles²

Collection Distance: 0.15 km

Species	Number	Pollution Tolerance	DELT Anomalies #	Description
Hypentelium nigricans Northern hog sucker	5	Moderately Intolerant	0	---
Catostomus commersonii Common white sucker	323	Highly Tolerant	0	---
Rhinichthys atratulus Western blacknose dace	12	Highly Tolerant	0	---
Semotilus atromaculatus Creek chub	307	Highly Tolerant	0	---
Notropis chrysocephalus Striped shiner	20	--	0	---
Cyprinella spiloptera Spotfin shiner	1	--	0	---
Notropis stramineus Sand shiner	13	Moderately Intolerant	0	---
Ericymba buccata Silverjaw minnow	5	--	0	---
Pimephales notatus Bluntnose minnow	13	Highly Tolerant	0	---
Campostoma anomalum Central stoneroller minnow	252	--	0	---
Ictalurus natalis Yellow bullhead	3	Highly Tolerant	0	---
Noturus flavus Stonecat Madtom	1	Intolerant	0	---
Micropterus dolomieu Smallmouth bass	4	Moderately Intolerant	0	---
Lepomis cyanellus Green sunfish	9	Highly Tolerant	0	---
Etheostoma blenniodes Greenside darter	39	Moderately Intolerant	0	---

**Abram Creek Upstream of Confluence with Rocky River
8/23/2012**

River Mile: 0.04

Etheostoma caeruleum Rainbow darter	20	Moderately Intolerant	0	---
Etheostoma nigrum Johnny darter	11	--	0	---
Totals	<u>1038</u>		<u>0</u>	

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