

Mill Creek at Northfield Road
6/18/2012
River Mile: 10.13
Collection Method: Longline Electroshocking
Drainage Area: 2.6 miles²
Collection Distance: 0.15 km

Species	Number	Pollution Tolerance	DELT Anomalies #	Description
Carassius auratus Goldfish	1	Highly Tolerant	0	---
Rhinichthys atratulus Western blacknose dace	64	Highly Tolerant	0	---
Semotilus atromaculatus Creek chub	178	Highly Tolerant	0	---
Totals	<u>243</u>		<u>0</u>	

*DELT anomalies were observed on 0.0 % of the fish collected.
 Index of Biotic Integrity (IBI) = 20 (Poor)

Mill Creek Upstream of South Miles Road
6/20/2012
River Mile: 8.30
Collection Method: Longline Electroshocking
Drainage Area: 3.9 miles²
Collection Distance: 0.15 km

Species	Number	Pollution Tolerance	DELTA Anomalies #	Description
Rhinichthys atratulus Western blacknose dace	127	Highly Tolerant	0	---
Semotilus atromaculatus Creek chub	85	Highly Tolerant	1	Deformity
Lepomis cyanellus Green sunfish	5	Highly Tolerant	0	---
Totals	<u><u>217</u></u>		<u><u>1</u></u>	

*DELTA anomalies were observed on 0.5 % of the fish collected.
 Index of Biotic Integrity (IBI) = 22 (Poor)

Mill Creek at Rex Avenue
6/18/2012
River Mile: 6.80
Collection Method: Longline Electroshocking
Drainage Area: 4.4 miles²
Collection Distance: 0.15 km

Species	Number	Pollution Tolerance	DELTA Anomalies #	Description
Rhinichthys atratulus Western blacknose dace	51	Highly Tolerant	0	---
Semotilus atromaculatus Creek chub	54	Highly Tolerant	0	---
Lepomis cyanellus Green sunfish	1	Highly Tolerant	0	---
Totals	<u><u>106</u></u>		<u><u>0</u></u>	

*DELTA anomalies were observed on 0.0 % of the fish collected.
 Index of Biotic Integrity (IBI) = 22 (Poor)

Mill Creek at Broadway Avenue
6/21/2012
River Mile: 3.15
Collection Method: Longline Electroshocking
Drainage Area: 14.6 miles²
Collection Distance: 0.15 km

Species	Number	Pollution Tolerance	DELT Anomalies #	Description
Rhinichthys atratulus	112	Highly	0	---
Western blacknose dace		Tolerant		
Semotilus atromaculatus	152	Highly	1	Deformity
Creek chub		Tolerant		
Totals	<u>264</u>		<u>1</u>	

*DELT anomalies were observed on 0.4 % of the fish collected.
 Index of Biotic Integrity (IBI) = 20 (Poor)

Mill Creek Downstream of Mill Creek Falls
6/21/2012
River Mile: 2.75
Collection Method: Longline Electroshocking
Drainage Area: 14.6 miles²
Collection Distance: 0.15 km

Species	Number	Pollution Tolerance	DELT Anomalies #	Description
Oncorhynchus mykiss Rainbow trout	2	--	0	---
Catostomus commersonii Common white sucker	21	Highly Tolerant	0	---
Rhinichthys atratulus Western blacknose dace	39	Highly Tolerant	0	---
Semotilus atromaculatus Creek chub	64	Highly Tolerant	0	---
Notropis cornutus Common shiner	1	--	0	---
Pimephales promelas Northern fathead minnow	1	Highly Tolerant	0	---
Camptostoma anomalum Central stoneroller minnow	117	--	0	---
Lepomis cyanellus Green sunfish	3	Highly Tolerant	0	---
Totals	<u>248</u>		<u>0</u>	

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

Mill Creek Upstream of Warner Road Tributary
6/21/2012
River Mile: 0.70
Collection Method: Longline Electroshocking
Drainage Area: 18.2 miles²
Collection Distance: 0.15 km

Species	Number	Pollution Tolerance	DELT Anomalies #	Description
Oncorhynchus mykiss Rainbow trout	1	--	0	---
Hypentelium nigricans Northern hog sucker	2	Moderately Intolerant	0	---
Catostomus commersonii Common white sucker	365	Highly Tolerant	0	---
Notemigonus crysoleucas Golden shiner	2	Highly Tolerant	0	---
Rhinichthys atratulus Western blacknose dace	115	Highly Tolerant	0	---
Semotilus atromaculatus Creek chub	169	Highly Tolerant	1	Lesion
Notropis cornutus Common shiner	52	--	0	---
Notropis stramineus Sand shiner	21	Moderately Intolerant	0	---
Pimephales notatus Bluntnose minnow	27	Highly Tolerant	0	---
Campostoma anomalum Central stoneroller minnow	718	--	0	---
Ictalurus natalis Yellow bullhead	13	Highly Tolerant	0	---
Lepomis cyanellus Green sunfish	34	Highly Tolerant	0	---
Lepomis gibbosus Pumpkinseed sunfish	2	Moderately Tolerant	0	---
Totals	<u>1521</u>		<u>1</u>	

*DELT anomalies were observed on 0.1 % of the fish collected.
Index of Biotic Integrity (IBI) = 36 (Marginally Good)

Mill Creek Upstream of Warner Road Tributary
10/1/2012
River Mile: 0.70
Collection Method: Longline Electroshocking
Drainage Area: 18.2 miles²
Collection Distance: 0.15 km

Species	Number	Pollution Tolerance	DELT Anomalies #	Description
Moxostoma macrolepidotum Shorthead redhorse	1	Moderately Intolerant	0	---
Hypentelium nigricans Northern hog sucker	3	Moderately Intolerant	0	---
Catostomus commersonii Common white sucker	239	Highly Tolerant	0	---
Carassius auratus Goldfish	1	Highly Tolerant	0	---
Notemigonus crysoleucas Golden shiner	1	Highly Tolerant	0	---
Rhinichthys atratulus Western blacknose dace	93	Highly Tolerant	0	---
Semotilus atromaculatus Creek chub	92	Highly Tolerant	0	---
Notropis chrysocephalus Striped shiner	60	--	0	---
Cyprinella spiloptera Spotfin shiner	23	--	0	---
Notropis stramineus Sand shiner	3	Moderately Intolerant	0	---
Pimephales promelas Northern fathead minnow	1	Highly Tolerant	0	---
Pimephales notatus Bluntnose minnow	39	Highly Tolerant	0	---
Camptostoma anomalum Central stoneroller minnow	875	--	0	---
Ictalurus natalis Yellow bullhead	9	Highly Tolerant	0	---
Micropterus dolomieu Smallmouth bass	8	Moderately Intolerant	0	---

Mill Creek Upstream of Warner Road Tributary

10/1/2012

River Mile: 0.70

Lepomis cyanellus Green sunfish	21	Highly Tolerant	0	---
Lepomis macrochirus Northern bluegill sunfish	2	Moderately Tolerant	1	Lesion
Lepomis gibbosus Pumpkinseed sunfish	1	Moderately Tolerant	0	---
Totals	<u>1472</u>		<u>1</u>	

*DELT anomalies were observed on 0.1 % of the fish collected.
Index of Biotic Integrity (IBI) = 40 (Good)

Mill Creek Upstream of Canal Road
6/21/2012
River Mile: 0.12
Collection Method: Longline Electroshocking
Drainage Area: 19.5 miles²
Collection Distance: 0.15 km

Species	Number	Pollution Tolerance	DELT Anomalies #	Description
Catostomus commersonii Common white sucker	247	Highly Tolerant	0	---
Rhinichthys atratulus Western blacknose dace	20	Highly Tolerant	0	---
Semotilus atromaculatus Creek chub	136	Highly Tolerant	0	---
Notropis atherinoides Common Emerald shiner	13	--	0	---
Notropis cornutus Common shiner	10	--	0	---
Notropis stramineus Sand shiner	53	Moderately Intolerant	0	---
Pimephales promelas Northern fathead minnow	1	Highly Tolerant	0	---
Pimephales notatus Bluntnose minnow	37	Highly Tolerant	0	---
Campostoma anomalum Central stoneroller minnow	291	--	0	---
Ictalurus natalis Yellow bullhead	12	Highly Tolerant	0	---
Micropterus dolomieu Smallmouth bass	8	Moderately Intolerant	0	---
Lepomis cyanellus Green sunfish	29	Highly Tolerant	0	---
Etheostoma nigrum Johnny darter	1	--	0	---
Totals	<u>858</u>		<u>0</u>	

*DELT anomalies were observed on 0.0 % of the fish collected.
Index of Biotic Integrity (IBI) = 32 (Fair)

Mill Creek Upstream of Canal Road
10/1/2012
River Mile: 0.12
Collection Method: Longline Electroshocking
Drainage Area: 19.5 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	33	Highly Tolerant	0	---
Rhinichthys atratulus Western blacknose dace	8	Highly Tolerant	0	---
Semotilus atromaculatus Creek chub	43	Highly Tolerant	0	---
Notropis chrysocephalus Striped shiner	32	--	0	---
Cyprinella spiloptera Spotfin shiner	37	--	0	---
Notropis stramineus Sand shiner	200	Moderately Intolerant	0	---
Pimephales promelas Northern fathead minnow	1	Highly Tolerant	0	---
Pimephales notatus Bluntnose minnow	29	Highly Tolerant	0	---
Camptostoma anomalum Central stoneroller minnow	251	--	0	---
Ictalurus natalis Yellow bullhead	4	Highly Tolerant	0	---
Gambusia affinis Western Mosquitofish	1	--	0	---
Micropterus dolomieu Smallmouth bass	1	Moderately Intolerant	0	---
Lepomis cyanellus Green sunfish	4	Highly Tolerant	0	---
Lepomis macrochirus Northern bluegill sunfish	1	Moderately Tolerant	0	---

Mill Creek Upstream of Canal Road
10/1/2012
River Mile: 0.12

Etheostoma caeruleum Rainbow darter	3	Moderately Intolerant	0	---
Etheostoma nigrum Johnny darter	5	--	0	---
Totals	<u>658</u>		<u>0</u>	

*DELT anomalies were observed on 0.0 % of the fish collected.
Index of Biotic Integrity (IBI) = 44 (Good)