Big Creek Snow Rd & Pearl Rd Branch Upstream of Big Creek Parkway 8/19/2016

River Mile: 0.20

Collection Method: Longline Electrofishing

2.5 miles² Drainage Area: **Collection Distance:** 0.15 km

DELT

			Pollution	Ar	nomalies
Code	Species	Number	Tolerance		Description
40-016	Catostomus commersonii Common white sucker	48	Highly Tolerant	0	
43-003	Notemigonus crysoleucas Golden shiner	4	Highly Tolerant	0	
43-011	Rhinicthys atratulus Western blacknose dace	101	Highly Tolerant	0	
43-013	Semotilus atromaculatus Creek chub	109	Highly Tolerant	0	
43-043	Pimephales notatus Bluntnose minnow	12	Highly Tolerant	0	
43-044	Campostoma anomalum Central stoneroller minnow	79		0	
77-008	Lepomis cyanellus Green sunfish	53	Highly Tolerant	0	
	Totals	406		0	
	*DELT anomalies were observed on Index of Biotic Integrity (IBI) =	0.00 % of t 30 (Fair)	the fish collected.		

Big Creek West Branch at Memphis Park 8/16/2016

River Mile: 0.02

Collection Method: Longline Electrofishing

Drainage Area: 11.9 miles²
Collection Distance: 0.15 km

			Pollution	Ar	DELT nomalies
Code	Species	Number	Tolerance	# [Description
40-016	Catostomus commersonii Common white sucker	238	Highly Tolerant	0	
43-011	Rhinicthys atratulus Western blacknose dace	33	Highly Tolerant	0	
43-013	Semotilus atromaculatus Creek chub	275	Highly Tolerant	0	
43-033	Notropis dorsalis Bigmouth Shiner	10		0	
43-034	Notropis stramineus Sand shiner	11	Moderately Intolerant	0	
43-043	Pimephales notatus Bluntnose minnow	13	Highly Tolerant	0	
43-044	Campostoma anomalum Central stoneroller minnow	196		0	
47-004	<i>Ictalurus natalis</i> Yellow bullhead	1	Highly Tolerant	0	
	Totals	<u>777</u>		0	

*DELT anomalies were observed on 0.00 Index of Biotic Integrity (IBI) = 24

0.00 % of the fish collected.

24 (Poor)

Stickney Creek South of Memphis Avenue 9/8/2016

River Mile: 0.15

Collection Method: Longline Electrofishing

15.8 miles² Drainage Area: **Collection Distance:** 0.15 km

Code	Species	Number	Pollution Tolerance	Ar	DELT nomalies Description
40-016	Catostomus commersonii Common white sucker	29	Highly Tolerant	0	
43-011	Rhinicthys atratulus Western blacknose dace	72	Highly Tolerant	0	
43-013	Semotilus atromaculatus Creek chub	125	Highly Tolerant	0	
43-043	Pimephales notatus Bluntnose minnow	31	Highly Tolerant	0	
43-044	Campostoma anomalum Central stoneroller minnow	38		0	
	Totals	295		0	
	*DELT anomalies were observed on	0.00 % of the	e fish collected.		

Index of Biotic Integrity (IBI) = 22

Big Creek Downstream of Pearl Road 8/17/2016

River Mile: 9.80

Collection Method: Longline Electrofishing

Drainage Area: 5.6 miles²
Collection Distance: 0.15 km

			Pollution	A	DELT Anomalies
Code	Species	Number	Tolerance	#	Description
40-016	Catostomus commersonii Common white sucker	5	Highly Tolerant	0	
43-011	Rhinicthys atratulus Western blacknose dace	26	Highly Tolerant	0	
43-013	Semotilus atromaculatus Creek chub	101	Highly Tolerant	0	
43-044	Campostoma anomalum Central stoneroller minnow	142		0	
77-006	Micropterus salmoides Largemouth bass	1		0	
77-008	Lepomis cyanellus Green sunfish	22	Highly Tolerant	0	
77-009	Lepomis macrochirus Northern bluegill sunfish	7	Moderately Tolerant	0	
77-013	Lepomis gibbosus Pumpkinseed sunfish	8	Moderately Tolerant	0	
	Totals	312		0	
	*DELT anomalies were observed on Index of Biotic Integrity (IBI) =		% of the fish collected. (Fair)		

Big Creek at Memphis Park 8/16/2016

River Mile: 4.40

Collection Method: Longline Electrofishing

Drainage Area: 19.3 miles²
Collection Distance: 0.15 km

Code	Species	Number	Pollution Tolerance	#	DELT Anomalies Description
40-016	Catostomus commersonii Common white sucker	7	Highly Tolerant	0	
43-003	Notemigonus crysoleucas Golden shiner	1	Highly Tolerant	0	
43-011	Rhinicthys atratulus Western blacknose dace	185	Highly Tolerant	0	
43-013	Semotilus atromaculatus Creek chub	106	Highly Tolerant	0	
43-033	Notropis dorsalis Bigmouth Shiner	16		0	
43-034	Notropis stramineus Sand shiner	10	Moderately Intolerant	0	
43-043	Pimephales notatus Bluntnose minnow	6	Highly Tolerant	0	
43-044	Campostoma anomalum Central stoneroller minnow	90		0	
	Totals	421		0	
	*DELT anomalies were observed on Index of Biotic Integrity (IBI) =		% of the fish collected. (Fair)		

Big Creek Downstream of Jennings Road September 6, 2016

River Mile: 0.15

Collection Method: Boat Electrofishing

Drainage Area: 37.1 miles² Collection Distance: 0.2 km

Collection Distance: 0.2 km						
Code 40-005	Species Carpiodes cyprinus Central quillback carpsucker	Number 1	Weight (kg) 0.02	Pollution Tolerance 	# 0	DELT Anomalies Description
40-015	Hypentelium nigricans Northern hog sucker	2	0.2	Moderately Intolerant	0	
40-016	Catostomus commersonii Common white sucker	18	0.15	Highly Tolerant	0	
43-002	Carassius auratus Goldfish	11	3.1	Highly Tolerant	0	
43-003	Notemigonus crysoleucas Golden shiner	1	0.004	Highly Tolerant	0	
43-011	Rhinicthys atratulus Western blacknose dace	2	0.008	Highly Tolerant	0	
43-013	Semotilus atromaculatus Creek chub	1	0.006	Highly Tolerant	0	
43-020	Notropis atherinoides Common Emerald shiner	20	0.09		0	
43-025	Notropis chrysocephalus Striped shiner	5	0.01		0	
43-032	Cyprinella spiloptera Spotfin shiner	6	0.021		0	
43-034	Notropis stramineus Sand shiner	24	0.08	Moderately Intolerant	0	
43-043	Pimephales notatus Bluntnose minnow	14	0.03	Highly Tolerant	0	
43-044	Campostoma anomalum Central stoneroller minnow	9	0.04		0	
47-004	<i>Ictalurus natalis</i> Yellow bullhead	11	0.4	Highly Tolerant	0	
77-004	Micropterus dolomieui Smallmouth bass	1	0.01	Moderately Intolerant	0	

Big Creek Downstream of Jennings Road September 6, 2016

		River Mile	e: 0.15			
77-006	Micropterus salmoides Largemouth bass	2	0.745		0	
77-008	Lepomis cyanellus Green sunfish	6	0.23	Highly Tolerant	0	
80-011	Percina caprodes Northern logperch darter	5	0.04	Moderately Intolerant	0	
87-001	Neogobius melanostomus Round goby	13	0.1		0	
	Totals	152	5.284		0	
	*DELT anomalies were observed on	0.00 % c	of the fish collected	l.		
	Index of Biotic Integrity (IBI) =	24	(Poor)			
	Modified Index of Well-Being (MIwb) =	8.0	(Fair)			
	Shannon Diversity Index, no.	2.571				
	Shannon Diversity Index, wt.	1.547				
	N	375				
	В	6.28				

Big Creek Downstream of Jennings Road October 6, 2016

River Mile: 0.15

Collection Method: Boat Electrofishing

Drainage Area: 37 miles² Collection Distance: 0.2 km

				Pollution	,	DELT Anomalies
Code 40-015	Species Hypentelium nigricans Northern hog sucker	Number 2	Weight (kg) 0.1	Tolerance Moderately Intolerant	# 0	Description
40-016	Catostomus commersonii Common white sucker	6	0.223	Highly Tolerant	0	
43-020	Notropis atherinoides Common Emerald shiner	15	0.03		0	
43-032	Cyprinella spiloptera Spotfin shiner	2	0.01		0	
43-034	Notropis stramineus Sand shiner	15	0.018	Moderately Intolerant	0	
43-042	Pimephales promelas Northern fathead minnow	3	0.007	Highly Tolerant	0	
43-043	Pimephales notatus Bluntnose minnow	3	0.014	Highly Tolerant	0	
43-044	Campostoma anomalum Central stoneroller minnow	8	0.019		0	
47-002	Ictalurus punctatus Channel catfish	1	3.628		1	Multiple
47-004	<i>lctalurus natalis</i> Yellow bullhead	7	0	Highly Tolerant	1	Erosion
70-001	Labidesthes sicculus Brook silverside	2	0.004	Moderately Intolerant	0	
77-008	Lepomis cyanellus Green sunfish	2	0.047	Highly Tolerant	0	
77-009	Lepomis macrochirus Northern bluegill sunfish	3	0.031	Moderately Tolerant	0	
87-001	Neogobius melanostomus Round goby	10	0.072		0	
	Totals	79	4.203		2	

Big Creek Downstream of Jennings Road October 6, 2016

	River	Mile:	0.15
*DELT anomalies were observed on	2.53	% of the	fish collected.
Index of Biotic Integrity (IBI) =	30		(Fair)
Modified Index of Well-Being (MIwb) =	7.2		(Fair)
Shannon Diversity Index, no.	2.335		
Shannon Diversity Index, wt.	0.662		
N	240		
В	19.2		