

ECCSCM Wolf Creek Watershed Monitoring Data, 2013					results in <b>boldface</b> violate Michigan Water Standards						
Site #	Date	Stream	Location	GPS	Water Temp (F)	Nitrate (ppm)	Nitrite (ppm)	Phosphorus (PO4) (ppm)	Ammonia (ppm)	Dissolved Oxygen (DO)	E. coli/100ml
1		Wolf Cr.	Hand Hwy	Lat. 42°1'58.01"N Long. 84°12'16.07"W							
	3/11/13				42	0	0	5	0	7.6	70
	6/17/13				57	0	0	5	0	<b>3.4</b>	290
	9/16/13				54	0	0	5	0	<b>4.1</b>	110
	11/19/13				41	1	0.15	15	0.25	6.7	60
2		Wolf Cr.	Gilbert Hwy	Lat. 41°59'56.39"N Long. 84°9'1.46"W							
	3/11/13				41	0	0	5	0	12.3	10
	6/17/13				72	0	0	5	0	6.2	170
	9/16/13				63	0	0	5	0.25	7.5	160
	11/19/13				41	0	0	5	0.25	13	10
3		Fisk Cr	Teachout Rd.	Lat. 41°59'1.88"N Long. 84°6'29.05"W							
	3/11/13				39	<b>20</b>	1	10	0.5	7.9	<b>2200</b>
	6/17/13				58	<b>20</b>	0.3	5	0.75	6.3	<b>4900</b>
	9/16/13				60	0	0.125	15	0.5	<b>0.08</b>	<b>11000</b>
	11/19/13				51	5	0.3	10	0.5	<b>4.0</b>	<b>3900</b>
4		Black Cr.	Wolf Creek Hwy	Lat. 41°56'10.37"N Long. 84°6'13.76"W							
	3/11/13				40	10	0.3	10	0.5	9.8	<b>1300</b>
	6/17/13				67	10	0.1	5	0	8.1	690
	9/16/13				57	0	0	5	0.25	7.5	<b>1300</b>
	11/19/13				40	10	0	10	0.25	7.4	<b>1600</b>
5		Turner Dr.	Tipton Hwy.	Lat. 41°55'0.15"N Long. 84°3'53.70"W							
	3/11/13				40	10	0	10	0	10.9	720
	6/17/13				62	5	0	5	0.5	6.0	1000
	9/16/13				55	0	0	15	0	6.2	220
	11/19/13				46	5	0	5	0.5	6.9	<b>4600</b>
6		Wolf Cr.	Tipton Hwy	Lat. 41°59'43.19"N Long. 84°4'57.27"W							
	3/11/13				41	5	0	5	0	11.1	900
	6/17/13				68	5	0.1	2	0.25	7.5	900
	9/16/13				57	0	0	5	0	8.7	250
	11/19/13				42	5	0	10	0.5	8.5	610
7		Black Cr.	Beebe Hwy	Lat. 41° 59' 42.42"N Long. 84° 04' 58.23"W							
	6/17/13				61	7.5	0	5	0	7.2	600
	9/16/13				55	0	0	5	0	7.8	190
	11/19/13				43	5	0	10	0.25	9.1	900
<b>Key Sampling Parameters:</b>											
<b>Parameter</b>	<b>In Natural Streams</b>	<b>Of Concern</b>	<b>MI Water Quality Standard</b>								
Ammonia	0.01-0.10/mg/L	above 0.10 mg/L	-----								
Phosphorus	0.05-0.10mg/L	above .10 mg/L	1 mg/L or less (max. monthly avg.) for point source discharges								
Nitrate	varies	above 10 mg/L	10 mg/L or less (drinking water)								
DO	5-13 mg/L	below 5 mg/L	5.0 mg/L or higher (warmwater streams) 7.0 mg/L or higher (coldwater streams)								
E. coli	varies	above 1,000 mg/L	1,000/100ml or less (partial body contact) 130/100ml or less (total body contact) 0/100ml (drinking water)								
Note: mg/L is approximately, but not exactly, equivalent to ppm											
<i>E. coli</i> samples tested at DEQ Laboratory, Lansing; DO results from YSI DO meter Nutrients tested with Hach test strips											