

## Appendix G. IDEM Sampling Logistics

Environmental Toxicology and Chemistry staff sampled waterbodies within the Driftwood River Watershed, including sites within the Youngs Creek Watershed, to evaluate *E. coli* concentrations. Twenty (20) sites were selected and pre-surveyed on May 22, 2002 to determine site accessibility, safety, time constraints, and other issues that may arise during sampling. Field sampling began on July 2, 2002 and continued for five consecutive weeks (July 9, July 16, July 23, and July 30) for a total of five sampling events. Additional field parameters were also collected during sampling (dissolved oxygen, pH, temperature, and turbidity).

Surface water samples were collected using a de-ionized water rinsed, stainless steel bucket. A 120 ml plastic bottle containing sodium thiosulfate ( $\text{Na}_2\text{S}_2\text{O}_3$ ), a preservative, was dipped into the stainless steel bucket to collect the water for lab analysis. The samples were stored on ice and transported to the Indiana State Department of Health for analysis. Table 22 shows the results for all sampling locations.

To ensure quality control, field blanks and field duplicates were collected at a rate of one for every 20 water samples collected. Field blanks were collected by filling the 120 ml plastic sample bottle with de-ionized water. Field duplicates were generated by collected two samples from the same stainless steel bucket.

**Table 22. 2002 E. coli results for the Driftwood River Watershed**

Site Name	Sampling Location	Sample Date	E.coli (CFU)	E.coli Geometric Mean
Driftwood River	Tellman Road	7/2/2002	310	123
		7/9/2002	82	
		7/16/2002	68	
		7/23/2002	290	
		7/30/2002	58	
Driftwood River	Lowell Road	7/2/2002	610	195
		7/9/2002	120	
		7/16/2002	78	
		7/23/2002	520	
		7/30/2002	96	
Driftwood River	C.R. 625 N	7/2/2002	610	456
		7/9/2002	610	
		7/16/2002	190	
		7/23/2002	820	
		7/30/2002	340	



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Site Name	Sampling Location	Sample Date	E.coli (CFU)	E.coli Geometric Mean
Driftwood River	C.R. 950 W	7/2/2002	400	184
		7/9/2002	190	
		7/16/2002	120	
		7/23/2002	210	
		7/30/2002	110	
Big Blue River	S.R. 252	7/2/2002	520	229
		7/9/2002	180	
		7/16/2002	160	
		7/23/2002	260	
		7/30/2002	160	
Sugar Creek	North Street	7/2/2002	820	218
		7/9/2002	99	
		7/16/2002	86	
		7/23/2002	500	
		7/30/2002	140	
Herriotts Creek	Schoolhouse Road	7/2/2002	>2420	1656
		7/9/2002	920	
		7/16/2002	1100	
		7/23/2002	>2420	
		7/30/2002	2100	
Sugar Creek	C. R. 550 E	7/2/2002	730	443
		7/9/2002	370	
		7/16/2002	390	
		7/23/2002	580	
		7/30/2002	280	
Youngs Creek	C.R. 500 S	7/2/2002	920	266
		7/9/2002	240	
		7/16/2002	70	
		7/23/2002	410	
		7/30/2002	210	
Amity Ditch	C.R. 350 E	7/2/2002	550	469
		7/9/2002	330	
		7/16/2002	190	
		7/23/2002	1600	
		7/30/2002	410	



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Site Name	Sampling Location	Sample Date	E.coli (CFU)	E.coli Geometric Mean
Buckhart Creek	Mauxferry Road	7/2/2002	>2420	2965
		7/9/2002	2000	
		7/16/2002	2100	
		7/23/2002	5500	
		7/30/2002	4100	
Youngs Creek	C.R. 250 S, W of US 31, South of Franklin	7/2/2002	>2420	2965
		7/9/2002	2400	
		7/16/2002	3100	
		7/23/2002	4400	
		7/30/2002	2400	
Hurricane Creek	Monroe Street	7/2/2002	1400	1740
		7/9/2002	980	
		7/16/2002	2000	
		7/23/2002	>2420	
		7/30/2002	2400	
Youngs Creek	Main Street	7/2/2002	1600	1147
		7/9/2002	1200	
		7/16/2002	820	
		7/23/2002	520	
		7/30/2002	>2420	
Youngs Creek	S.R. 144	7/2/2002	1600	577
		7/9/2002	870	
		7/16/2002	170	
		7/23/2002	690	
		7/30/2002	390	
Youngs Creek	Centerline Road	7/2/2002	980	277
		7/9/2002	460	
		7/16/2002	86	
		7/23/2002	150	
		7/30/2002	280	
Brewers Ditch	C.R. 200 N	7/2/2002	520	541
		7/9/2002	370	
		7/16/2002	290	
		7/23/2002	1600	
		7/30/2002	520	



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Site Name	Sampling Location	Sample Date	E.coli (CFU)	E.coli Geometric Mean
Youngs Creek	C.R. 400 N	7/2/2002	1600	872
		7/9/2002	1300	
		7/16/2002	440	
		7/23/2002	550	
		7/30/2002	1000	
Grassy Creek	Whiteland Road	7/2/2002	19	20
		7/9/2002	17	
		7/16/2002	15	
		7/23/2002	56	
		7/30/2002	13	
East Grassy Creek	Centerline Road	7/9/2002	1400	972
		7/16/2002	>2420	
		7/23/2002	240	
		7/30/2002	1100	

