

Appendix F – Brown County Regional Sewer District E. Coli Sampling

Brown County Regional Sewer District retained Lochmueller Group and Arion Consultants to evaluate E. coli levels in Brown County as part of efforts to develop a strategic wastewater management plan. They identified 14 sites in the Bean Blossom watershed and 21 sites in the Lake Monroe (East Fork White River) watershed for evaluation. After an initial round of sampling, 12 sites in the Bean Blossom watershed and 20 sites in the Lake Monroe watershed were sampled weekly over a five-week period (May 5, 2020 – June 2, 2020) and tested for E. coli. This data was used to calculate the geometric mean of the samples to compare to the state geometric mean standard of 125 CFU/100 ml. Results from the Lake Monroe watershed samples are summarized below.

Table 1 E. coli Sampling Results in Lake Monroe Watershed

Site ID	Sub-watershed	Stream	5/5/2020	5/12/2020	5/19/2020	5/26/2020	6/2/2020	Geo-metric Mean	>State Geo-mean
EF01	Sweetwater (NF)	Sweetwater Creek	115	12	379	365	82	109.2	no
EF02	Sweetwater (NF)	North Fork Salt Creek	338	9	219	61.3	77	79.7	no
EF03	Sweetwater (NF)	Outlet Sweetwater Lake	75	--	--	--	--		no
EF04	Brummett (NF)	North Fork Salt Creek	338	112	1630	365	128	310.4	yes
EF05	Clay Lick (NF)	Outlet Yellowwood Lake	87	33	87	461	13	68.6	no
EF06	Clay Lick (NF)	North Fork Salt Creek	705	310	1170	32.3	126	253.2	yes
EF07	Clay Lick (NF)	Lick Creek	449	22	401	93.3	59	117.2	no
EF08	Clay Lick (NF)	North Fork Salt Creek	1440	58	811	1990	122	439.3	yes
EF09	Clay Lick (NF)	Clay Lick	85	36	171	187	25	75.6	no
EF10	Gnaw Bone (NF)	North Fork Salt Creek	424	195	661	345	96	282.8	yes
EF11	Gnaw Bone (NF)	Gnaw Bone	449	78	620	186	141	224.5	yes
EF12	Gnaw Bone (NF)	Gnaw Bone	338	21	276	172	84	122.4	no
EF13	Gnaw Bone (NF)	Mount Liberty	401	61	449	228	118	196.9	yes

Site ID	Sub-watershed	Stream	5/5/2020	5/12/2020	5/19/2020	5/26/2020	6/2/2020	Geometric Mean	>State Geomean
EF14	Gravel Creek (MF)	Middle Fork Salt Creek	705	63	1220	548	144	336.1	yes
EF15	Pleasant Valley (MF)	Middle Fork Salt Creek	310	115	925	866	122	322.4	yes
EF16	Pleasant Valley (MF)	Hamilton Creek	1020	43	705	548	166	308.8	yes
EF17	Pleasant Valley (MF)	Middle Fork Salt Creek	755	31	755	861	192	310.4	yes
EF18	Headwaters (MF)	Middle Fork Salt Creek	1440	89	1170	461	122	384.5	yes
EF20	Clay Lick (NF)	Greasy Creek	755	83	276	365	228	270.2	yes
EF21	Little Salt Creek (SF)	Little Salt Creek	136	4	190	461	93	84.6	no