

**Table S2:** T test results to determine if the means of the pre-mine and post-mine log-transformed discharge populations are different and the null hypothesis,  $H_0$ , can be rejected. Negative variance of the difference,  $x_1 - x_2$ , indicates a statistically significant increase in the post-mine geometric mean and positive variance of the difference indicates a statistically significant decrease in the post-mine geometric mean. Data compared to published critical values of  $t$  at  $\alpha = 0.05$  and fit to a two-tailed test.

Site ID	F Test	x1	s1	n1	x2	s2	n2	$\mu_1 - \mu_2$	critical value ( $\alpha/2$ )		t	p-value	95% Confidence Interval		Decision
58	accept $H_0$	1.33	1.17	23	1.72	0.85	39	0	0.025	1.96	(1.51)	>0.10	(0.89)	0.11	accept $H_0$
9	accept $H_0$	0.98	0.36	10	1.33	0.40	15	0	0.025	2.07	(2.23)	<0.01	(0.68)	(0.02)	reject $H_0$ ; increase to geometric mean
82	reject $H_0$ at $\alpha = 0.01$	1.47	0.54	27	(0.33)	1.16	22	0	0.025	2.08	6.71	<0.01	1.28	2.32	reject $H_0$ ; decrease to geometric mean
83	reject $H_0$ at $\alpha = 0.01$	1.27	0.57	27	0.33	1.10	36	0	0.025	2.06	4.40	<0.01	0.46	1.42	reject $H_0$ ; decrease to geometric mean
85	accept $H_0$	(0.45)	0.67	16	(0.86)	0.49	37	0	0.025	1.96	2.50	<0.01	0.09	0.73	reject $H_0$ ; decrease to geometric mean
64	reject $H_0$ at $\alpha = 0.05$	0.86	0.70	29	0.19	1.09	70	0	0.025	2.05	3.64	<0.01	0.22	1.12	reject $H_0$ ; decrease to geometric mean
68	accept $H_0$	1.25	1.09	29	(0.59)	0.91	57	0	0.025	1.96	8.28	<0.01	1.40	2.28	reject $H_0$ ; decrease to geometric mean
69	accept $H_0$	1.26	0.76	19	0.56	0.76	51	0	0.025	1.96	3.43	<0.01	0.30	1.10	reject $H_0$ ; decrease to geometric mean