

Table I-10 Correlations between Biological Parameters and Physical/Chemical Sediment Parameters in Twenty Station Sediment Data Analysis

(.05>z>.01 = *; .01>z>.001 = **; z<.001 = ***)

Parameter	Associated Parameter	Pearson's Correlation	z	Significant	r-Square
Mean Pct Survival	Antimony	-0.6827	0.0009	***	0.4661
Mean Pct Survival	Barium	-0.5386	0.0143	*	0.2900
Mean Pct Survival	Beryllium	-0.6586	0.0016	**	0.4337
Mean Pct Survival	Cadmium	-0.6935	0.0007	***	0.4809
Mean Pct Survival	Calcium	0.6061	0.0046	**	0.3673
Mean Pct Survival	Chromium	-0.5814	0.0072	**	0.3381
Mean Pct Survival	Clay	-0.5454	0.0437	*	0.2975
Mean Pct Survival	Copper	-0.5380	0.0144	*	0.2894
Mean Pct Survival	Iron	-0.6723	0.0012	**	0.4520
Mean Pct Survival	Lead	-0.7014	0.0006	***	0.4920
Mean Pct Survival	Magnesium	-0.6631	0.0014	**	0.4398
Mean Pct Survival	Manganese	-0.4484	0.0474	*	0.2011
Mean Pct Survival	Nickel	-0.6348	0.0026	**	0.4030
Mean Pct Survival	Sand	0.7224	0.0035	**	0.5219
Mean Pct Survival	Silt	-0.5894	0.0266	*	0.3474
Mean Pct Survival	Thallium	-0.5081	0.0222	*	0.2581
Mean Pct Survival	Tin	-0.6535	0.0018	**	0.4270
Mean Pct Survival	Total Organic Carbon	-0.6096	0.0043	**	0.3716
Mean Pct Survival	Vanadium	-0.6569	0.0017	**	0.4315
Mean Pct Survival	Zinc	-0.7859	0.0000	***	0.6177
Mean Pct Survival	depth	-0.4765	0.0337	*	0.2270
Toxicity Equivalent	Clay	0.6322	0.0153	*	0.3997
Toxicity Equivalent	LALK	0.5043	0.0234	*	0.2543
Toxicity Equivalent	Magnesium	0.5128	0.0208	*	0.2629
Toxicity Equivalent	Petrogenic PAH	0.6894	0.0008	***	0.4753
Toxicity Equivalent	Selenium	0.6596	0.0016	**	0.4350
Toxicity Equivalent	Total Organic Carbon	0.5266	0.0171	*	0.2773
Toxicity Equivalent	Total PAH	0.6830	0.0009	***	0.4665
Toxicity Equivalent	depth	0.4943	0.0267	*	0.2444
AVS Conc	Chromium	0.4686	0.0372	*	0.2196
AVS Conc	Mercury	0.6987	0.0006	***	0.4881
AVS Conc	Pyrogenic PAH	0.4963	0.0260	*	0.2463
AVS Conc	Silver	0.5642	0.0096	**	0.3183
AVS Conc	TPHC	0.5689	0.0089	**	0.3236
Total SEM - AVS	Mercury	-0.6751	0.0011	**	0.4558
Total SEM - AVS	Pyrogenic PAH	-0.4789	0.0326	*	0.2294
Total SEM - AVS	Silver	-0.5253	0.0174	*	0.2759
Total SEM - AVS	TPHC	-0.5494	0.0121	*	0.3018