

**Table 11.** Results of trend tests on concentrations of selected constituents in bottom-sediment core samples collected from site TIC-2 in Tuttle Creek Lake, northeast Kansas, September 1999

[--, not calculated]

Constituent	Spearman's rho		Trend test at a 0.05 level of significance	
	All sample intervals	Sample intervals 3 and 11 excluded	All sample intervals	Sample intervals 3 and 11 excluded
<b>Nutrients</b>				
Total ammonia plus organic nitrogen	--	--	--	--
Total phosphorus	0.28	0.30	no trend	no trend
<b>Carbon</b>				
Carbon (inorganic)	-.29	-.28	no trend	no trend
Carbon (organic)	.36	.42	no trend	no trend
Carbon (total)	.15	.13	no trend	no trend
<b>Metals and trace elements</b>				
Aluminum	.44	.51	no trend	no trend
Antimony	.21	0	no trend	no trend
Arsenic	.38	.25	no trend	no trend
Barium	-.42	-.51	no trend	no trend
Beryllium	.47	.37	no trend	no trend
Bismuth	--	--	--	--
Cadmium	.27	.20	no trend	no trend
Calcium	.28	.26	no trend	no trend
Cerium	.08	.03	no trend	no trend
Chromium	.73	.72	positive trend	positive trend
Cobalt	.70	.64	positive trend	positive trend
Copper	.39	.31	no trend	no trend
Europium	-.06	-.13	no trend	no trend
Gallium	.62	.75	positive trend	positive trend
Gold	--	--	--	--
Holmium	.31	.34	no trend	no trend
Iron	.66	.75	positive trend	positive trend
Lanthanum	.09	.06	no trend	no trend
Lead	.20	.18	no trend	no trend
Lithium	.74	.73	positive trend	positive trend
Magnesium	.71	.69	positive trend	positive trend
Manganese	.44	.49	no trend	no trend
Mercury	.58	.51	positive trend	no trend
Molybdenum	.64	.59	positive trend	positive trend
Neodymium	-.08	-.17	no trend	no trend
Nickel	.78	.78	positive trend	positive trend
Niobium	.30	.36	no trend	no trend
Potassium	-.12	-.13	no trend	no trend
Scandium	.55	.56	positive trend	positive trend
Selenium	.64	.59	positive trend	positive trend
Silver	-.06	-.15	no trend	no trend
Sodium	-.51	-.64	no trend	negative trend
Strontium	-.39	-.46	no trend	no trend

**Table 11.** Results of trend tests on concentrations of selected constituents in bottom-sediment samples collected from coring site TIC-2 in Tuttle Creek Lake, northeast Kansas, September 1999—Continued

Constituent	Spearman's rho		Trend test at a 0.05 level of significance	
	All sample intervals	Sample intervals 3 and 11 excluded	All sample intervals	Sample intervals 3 and 11 excluded
<b>Metals and trace elements—Continued</b>				
Sulfur	--	--	--	--
Tantalum	0.55	0.67	positive trend	positive trend
Thallium	--	--	--	--
Thorium	.49	.57	no trend	positive trend
Tin	.53	.63	positive trend	positive trend
Titanium	.18	.16	no trend	no trend
Uranium	.19	.05	no trend	no trend
Vanadium	.45	.66	no trend	positive trend
Ytterbium	.08	.03	no trend	no trend
Yttrium	.29	.32	no trend	no trend
Zinc	.64	.70	positive trend	positive trend
<b>Organochlorine compounds</b>				
Aldrin	--	--	--	--
Chlordane	--	--	--	--
DDD	--	--	--	--
DDE	-.26	-.40	no trend	no trend
DDT	--	--	--	--
Dieldrin	--	--	--	--
Endosulfan	--	--	--	--
Endrin	--	--	--	--
Gross polychlorinated biphenyls (PCBs)	--	--	--	--
Heptachlor	--	--	--	--
Heptachlor epoxide	--	--	--	--
Lindane	--	--	--	--
Methoxychlor	--	--	--	--
Mirex	--	--	--	--
Toxaphene	--	--	--	--