

Appendix O
Freundlich Isotherms
River Terrace Site Remedial Investigation

Appendix O Freundlich Isothem Calculations

<p>Form of Freundlich Equation $q = K \cdot C^{(1/n)}$</p> <p style="text-align: center;"> q = milligrams of TCE adsorbed per gram of carbon K_f = Slope of Freundlich adsorption curve for PCE $1/n$ = Freundlich mass transfer coefficient for PCE C = Concentration of PCE in pore water in mg/L </p>							
Basis (g)	TOC Fraction	Kf	C (mg/L)	1/n	q (mg/g)	gram TOC	mg TCE/kg Soil
1000	0.0035	50.8	0.84	0.56	46.07	3.5	161.26
1000	0.0035	50.8	0.005	0.56	2.61	3.5	9.15