

Comparison of Estimated Concentrations in the PKCA Discharges to Livestock Watering Criteria

Parameter	Estimated Discharge Concentration (mg/L)		Livestock Watering Criteria (CCME)
	Average Source Conc.	Maximum Source Conc.	
Nutrients			
NH ₄ -N	1.8	2.9	na
NO ₂ -N	0.16	0.23	10
NO ₃ -N	5.0	7.4	100
P	0.087	0.087	na
Physical			
TDS	1074	1635	3000
TSS	6.3	7.4	na
Major Ions			
Alk	42	70	na
Ca	101	202	1000
Cl	487	647	na
K	36	64	na
Mg	175	206	na
Na	21	36	na
SO ₄	184	380	1000
Dissolved Metals			
DAI	0.12	0.21	5
DFe	0.26	0.64	na
Total Metals			
TAI	0.49	0.90	5
TAs	0.0013	0.0021	0.025
TCd	0.0008	0.0011	0.08
TCr	0.0047	0.0099	0.05
TCu	0.020	0.021	0.5
TFe	0.63	1.0	na
TMo	0.075	0.14	0.5
TNi	0.042	0.062	1
TPb	0.0038	0.0040	0.1
TU	0.12	0.68	0.2
TZn	0.015	0.034	50

Notes:

- 1) Data extracted from the water and load balance (SRK and Clearwater 2004)
 - 2) 2013 used as representing typical seasonal maximums in concentration
 - 3) Source parameter concentrations provided by SRK (April 15, 2004)
 - 4) All concentrations in mg/L
- * CCME Livestock watering criteria are intended to be protective of domestic species that rely on a single water