

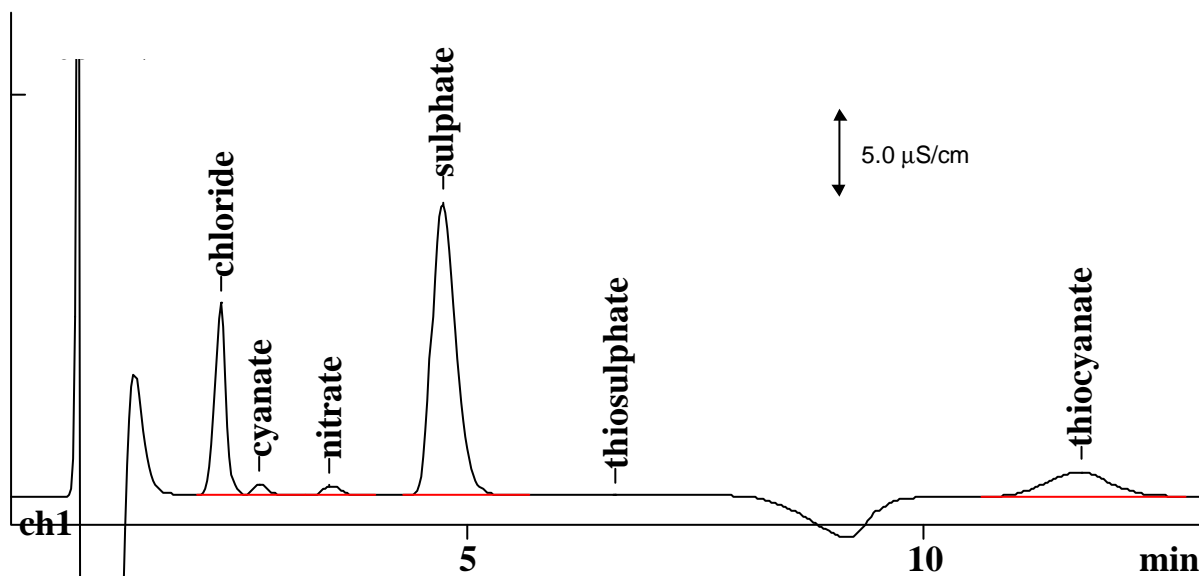
IC Application Note No. N-21

Title: Determination of chloride, cyanate, nitrate, sulphate, thiosulphate and thiocyanate in gold mine process water

Summary: Determination of chloride, cyanate, nitrate, sulphate, thiosulphate and thiocyanate in gold mine process water using anion chromatography with direct conductivity detection.

Sample: Gold mine process water
Sample Preparation: Dilution 1 : 50

Column: 6.1006.040 Metrosep Anion Dual 1 (70 mm)
Eluent: 8.0 mmol/L phthalic acid, 2 % acetonitrile, pH = 4.0 (TRIS)
Flow: 0.5 mL/min
Injection Volume: 100 μ L



Results:	Cl ⁻ mg/L	OCN ⁻ mg/L	NO ₃ ⁻ mg/L	SO ₄ ²⁻ mg/L	S ₂ O ₃ ²⁻ mg/L	SCN ⁻ mg/L
	525	92	67.9	250	n.d.	705