

IC Application Note No. S-18

Title: Six anions in process water

Summary: Determination of fluoride, formate, chloride, nitrite, bromide, nitrate, phosphate and sulfate in Process Water using anion chromatography with conductivity detection after chemical suppression.

Sample: Process water

Sample Preparation: Dilution 1:20

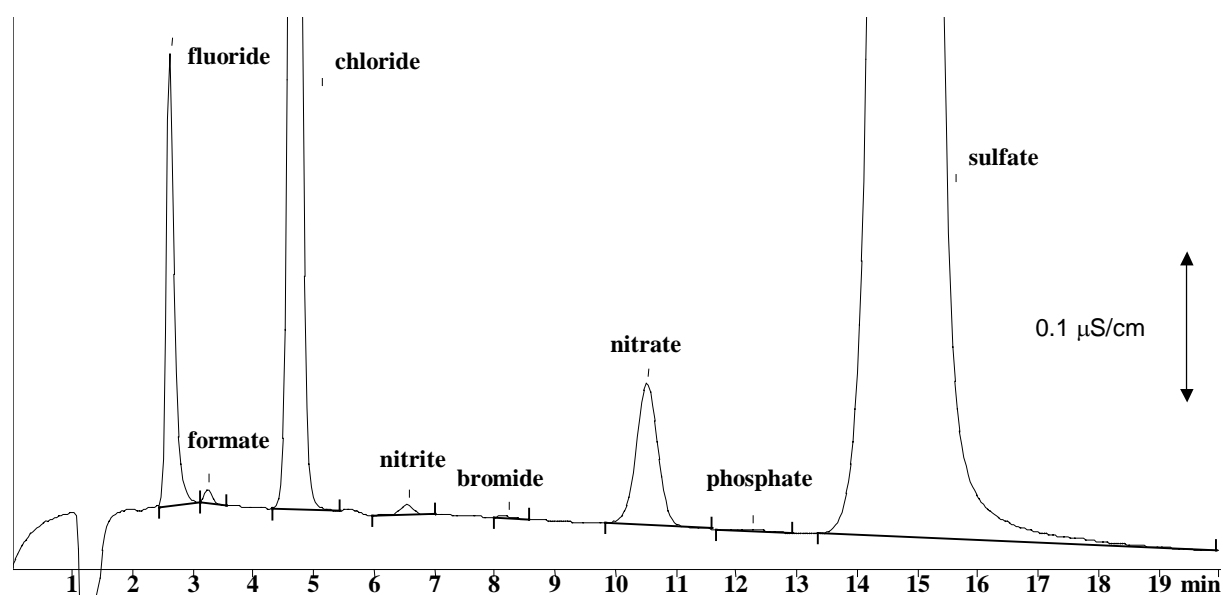
Column: 6.1006.100 Metrosep Anion Dual 2

Eluent: 2 mmol/L sodium hydrogencarbonate,
1.5 mmol/L sodium carbonate

Suppressor: Metrohm Suppressor Module (MSM, 50 mmol/L H₂SO₄)

Flow: 0.8 mL/min

Injection Volume: 20 µL



Results:	F ⁻ mg/L	Formate mg/L	Cl ⁻ mg/L	NO ₂ ⁻ mg/L	Br ⁻ mg/L	NO ₃ ⁻ mg/L	HPO ₄ ²⁻ mg/L	SO ₄ ²⁻ mg/L
	5.1	0.56	41.3	0.53	0.12	12.2	0.33	1122.6