

Comparison Between Regulatory Guidelines and Parameters Analyzed by Strata

Parameter	Units	Strata's Ross Project	NUREG-1569 Table 2.7.3-1	NRC RG 4.14	WDEQ-LQD Guideline 8, March 2005
Field					
Field Conductivity	umhos/cm	X	X	NR	NR
Field pH	s.u.	X	X	NR	NR
Field turbidity	NTUs	X	NR	NR	NR
Depth to Water	ft	X	NR	NR	NR
Temperature	Deg C	X	NR	NR	NR
Dissolved oxygen	mg/l	X	NR	NR	NR
Dissolved oxygen, pct	%	X	NR	NR	NR
General					
Alkalinity (as CaCO ₃)	mg/l	X	X	NR	NR
Ammonia	mg/l	X	NR	NR	X
Fluoride	mg/l	X	X	NR	X
Laboratory conductivity	umhos/cm	X	X	NR	NR
Laboratory pH	s.u.	X	X	NR	NR
Nitrate as N	mg/l	NM	X	NR	NR
Nitrate/Nitrite	mg/l	X	X	NR	X
Total Dissolved Solids	mg/l	X	X	NR	X
Sodium Absorption Ratio (SAR)	unitless	X	NR	NR	NR
Major Ions					
Calcium	mg/l	X	X	NR	X
Magnesium	mg/l	X	X	NR	X
Potassium	mg/l	X	X	NR	X
Sodium	mg/l	X	X	NR	X
Bicarbonate	mg/l	X	X	NR	X
Carbonate	mg/l	X	X	NR	X
Chloride	mg/l	X	X	NR	X
Sulfate	mg/l	X	X	NR	X
Metals					
Aluminum, dissolved	mg/l	X	NR	NR	NR
Arsenic, dissolved	mg/l	X	X	NR	X
Barium, dissolved	mg/l	X	X	NR	NR
Boron, dissolved	mg/l	X	X	NR	X
Cadmium, dissolved	mg/l	X	X	NR	X
Chromium, dissolved	mg/l	X	X	NR	X
Copper, dissolved	mg/l	X	X	NR	NR
Iron, dissolved	mg/l	X	X	NR	X
Iron, total	mg/l	X	NR	NR	X
Lead, dissolved	mg/l	X	X	NR	NR
Manganese, dissolved	mg/l	NM	X	NR	NR
Manganese, total	mg/l	X	NR	NR	X
Mercury, dissolved	mg/l	X	X	NR	NR
Molybdenum, dissolved	mg/l	X	X	NR	X
Nickel, dissolved	mg/l	X	X	NR	NR
Selenium, dissolved	mg/l	X	X	NR	X

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Silver, dissolved	mg/l	X	X	NR	NR
Uranium, dissolved	mg/l	X	X	X	X
Uranium, suspended	mg/l	X	NR	NR	NR
Vanadium, dissolved	mg/l	X	X	NR	X
Zinc, dissolved	mg/l	X	X	NR	X
Radiological					
Lead 210, dissolved	pCi/l	X	NR	X	NR
Lead 210, suspended	pCi/l	X	NR	X	NR
Polonium 210, dissolved	pCi/l	X	NR	X	NR
Polonium 210, suspended	pCi/l	X	NR	X	NR
Ra-226, dissolved	pCi/l	X	X	X	X
Ra-226, suspended	pCi/l	X	NR	X	NR
Ra-228, Dissolved	pCi/l	X	NR	NR	X
Radon-222	pCi/l	X	NR	NR	NR
Th-230, dissolved	pCi/l	X	NR	X	NR
Th-230, suspended	pCi/l	X	NR	X	NR
Gross Alpha	pCi/l	X	X	NR	X
Gross Beta	pCi/l	X	X	NR	X

NM - Not analyzed

NR - Not recommended in applicable regulatory guidelines