

Table 2
Parameters for Laboratory Analysis and Sampling Frequency

PARAMETER	On-site Evaporation Ponds (OEP) Solids (salt) Mg/Kg	OEPs Wastewater Mg/L	Flotation Bleed-Off Wastewater, Separations Plant Mineral Recovery Wastewater, and Hyperfiltration Reject Wastewater Mg/L	Plant Stormwater Runoff Mg/L	Ground Water Monitoring Wells Mg/L	High-Quality Hyperfiltration Water Mg/L	Nano-filtration Reject Wastewater Mg/L
TDS		Quarterly	Annual	Unscheduled	Quarterly	Quarterly	
Calcium (Ca)	Quarterly	Quarterly	Annual	Unscheduled	Quarterly	Quarterly	
Magnesium (Mg)	Quarterly	Quarterly	Annual	Unscheduled	Quarterly	Quarterly	
Sodium (Na)	Quarterly	Quarterly	Annual	Unscheduled	Quarterly	Quarterly	
Potassium (K)	Quarterly	Quarterly	Annual	Unscheduled	Quarterly	Quarterly	
Chloride (Cl)	Quarterly	Quarterly	Annual	Unscheduled	Quarterly	Quarterly	
Carbonate + Bicarbonate (CO ₃ + HCO ₃)	Quarterly	Quarterly	Annual	Unscheduled	Quarterly	Quarterly	
Sulfate (SO ₄)	Quarterly	Quarterly	Annual	Unscheduled	Quarterly	Quarterly	
Lignin Sulfonate/Color	---						Quarterly
Nitrate/Nitrite As N			Annual	Unscheduled	Quarterly	Annual	
Boron (B)	Quarterly	Quarterly					
Manganese (Mn)	Quarterly	Quarterly				Annual	
Strontium (Sr)	Quarterly	Quarterly	Annual	Unscheduled	Quarterly	Annual	
Total Lanthanides (La, Ce, Nd, and Pr)	Quarterly	Quarterly		Unscheduled		Annual	
Yttrium (Y)	Quarterly	Quarterly				Annual	
Antimony (Sb)	Quarterly	Quarterly				Annual	
Arsenic (As)	Quarterly	Quarterly				Annual	
Barium (Ba)	Quarterly	Quarterly	Annual	Unscheduled	Quarterly	Annual	Quarterly
Beryllium (Be)	Quarterly	Quarterly				Annual	
Cadmium (Cd)	Quarterly	Quarterly				Annual	
Chromium (Cr)	Quarterly	Quarterly				Annual	
Cobalt (Co)	Quarterly	Quarterly				Annual	

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Copper (Cu)	Quarterly	Quarterly				Annual	
Lead (Pb) ¹	Quarterly	Quarterly			Quarterly	Annual	Quarterly
Mercury (Hg) ¹	Quarterly	Quarterly			Quarterly	Quarterly	Quarterly
Molybdenum (Mo)	Quarterly	Quarterly				Quarterly	
Nickel (Ni)	Quarterly	Quarterly				Quarterly	
Selenium (Se)	Quarterly	Quarterly				Annual	
Silver (Ag)	Quarterly	Quarterly				Annual	
Thallium (Tl)	Quarterly	Quarterly				Annual	
Vanadium (V)	Quarterly	Quarterly				Annual	
Zinc (Zn)	Quarterly	Quarterly				Annual	
Fluoride (F)	Quarterly	Quarterly				Annual	
Gross Alpha	Quarterly (pCi/L)	Quarterly (pCi/L)			Quarterly (pCi/L)	Annual (pCi/L)	Quarterly (pCi/L)
Gross Beta	Quarterly (pCi/L)	Quarterly (pCi/L)			Quarterly (pCi/L)	Annual (pCi/L)	Quarterly (pCi/L)
Thorium ²	Quarterly	Quarterly	Annual (Mg/L)	Unscheduled (Mg/L)	Quarterly (Mg/L)	Quarterly (Mg/L)	Quarterly
Uranium ¹	Quarterly	Quarterly	Annual (Mg/L)	Unscheduled (Mg/L)	Quarterly (Mg/L)	Quarterly (Mg/L)	Quarterly
Radium-226 (²²⁶ Ra)	Quarterly (pCi/L)	Quarterly (pCi/L)	Annual(pCi/L)		Quarterly (pCi/L)	Annual(pCi/L)	Quarterly
Radium-228 (²²⁸ Ra)	Quarterly	Quarterly	Annual		Quarterly	Annual	Quarterly
Radium (Calc) (²²⁶ Ra + ²²⁸ Ra)	Quarterly	Quarterly	Annual		Quarterly	Annual	Quarterly

¹ To be conducted monthly for first year of operation.

² Use laboratory method with detection level of 0.001 mg/l for wastewater samples.