



ENVIRONMENTAL PROTECTION LICENCE 7654

WATER QUALITY MONITORING

May 2025

POINT 1 DAM CHARACTERISATION

Pollutant	Unit of measure	Result
Alkalinity	mg/L	150
Ammonia	mg/L	31
Calcium	mg/L	69
Chloride	mg/L	210
Electrical conductivity	$\mu\text{S}/\text{cm}$	2100
Fluoride	mg/L	0.2
Iron	mg/L	16
Magnesium	mg/L	44
Manganese	mg/L	0.14
Nitrogen	mg/L	40
pH	pH	7.3
Phosphorus	mg/L	6.5
Polycyclic aromatic hydrocarbons	mg/L	<0.1
Potassium	mg/L	190
Sodium	mg/L	160
Sulfate	mg/L	310
Total organic carbon	mg/L	96
Total petroleum hydrocarbons	mg/L	0.41
Total phenolics	mg/L	<0.05
Total suspended solids	mg/L	90

POINT 3 PROCESS WATER TANK

Pollutant	Unit of measure	Result
Boron	mg/L	2400
Cadmium	mg/L	<0.1
Copper	mg/kg	0.006
Electrical conductivity	$\mu\text{S}/\text{cm}$	7200
Iron	mg/L	0.21
Molybdenum	mg/L	0.13
Nickel	mg/L	0.01
pH	pH	8.4
Silver	mg/L	<1
Total suspended solids	mg/L	6

POINT 2 SPILLWAY Nil Discharge

Pollutant	Unit of measure	Concentration limit/Range	Result	Exceedances
Alkalinity	mg/L	-		
Ammonia	mg/L	0.9		
Calcium	mg/L	-		
Chloride	mg/L	-		
Electrical conductivity	µS/cm	-		
Fluoride	mg/L	-		
Iron	mg/L	-		
Magnesium	mg/L	-		
Manganese	mg/L	-		
Nitrogen	mg/L	-		
pH	pH	6.5-8.5		
Phosphorus	mg/L	-		
Polycyclic aromatic hydrocarbons	mg/L	-		
Potassium	mg/L	-		
Sodium	mg/L	-		
Sulfate	mg/L	-		
Total organic carbon	mg/L	-		
Total petroleum hydrocarbons	mg/L	-		
Total phenolics	mg/L	-		
Total suspended solids	mg/L	50		

POINT 4 SEDIMENT BASIN Nil Discharge

Pollutant	Unit of measure	Concentration limit/Range	Result	Exceedance
Ammonia	mg/L	-		
Electrical conductivity	µS/cm	-		
Nitrogen	mg/L	-		
pH	pH	6.5-8.5		
Total organic carbon	mg/L	-		
Total petroleum hydrocarbons	mg/L	-		
Total suspended solids	mg/L	50		