



ENVIRONMENTAL PROTECTION LICENCE 7654

WATER QUALITY MONITORING

August 2025

POINT 1 DAM CHARACTERISATION

Pollutant	Unit of measure	Result
Alkalinity	mg/L	110
Ammonia	mg/L	15
Calcium	mg/L	62
Chloride	mg/L	230
Electrical conductivity	$\mu\text{S}/\text{cm}$	7700
Fluoride	mg/L	0.2
Iron	mg/L	1
Magnesium	mg/L	42
Manganese	mg/L	0.092
Nitrogen	mg/L	31
pH	pH	8.4
Phosphorus	mg/L	6.1
Polycyclic aromatic hydrocarbons	mg/L	<0.1
Potassium	mg/L	160
Sodium	mg/L	160
Sulfate	mg/L	300
Total organic carbon	mg/L	80
Total petroleum hydrocarbons	mg/L	<50
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	2.3
Cadmium	mg/L	<0.1
Copper	mg/kg	0.002
Electrical conductivity	$\mu\text{S}/\text{cm}$	2100
Iron	mg/L	0.11
Molybdenum	mg/L	0.14
Nickel	mg/L	0.008
pH	pH	7.2
Silver	mg/L	<1
Total suspended solids	mg/L	32

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		