



ENVIRONMENTAL PROTECTION LICENCE 7654

WATER QUALITY MONITORING

November 2024

POINT 1 DAM CHARACTERISATION

Pollutant	Unit of measure	Result
Alkalinity	mg/L	164
Ammonia	mg/L	0.23
Calcium	mg/L	89
Chloride	mg/L	280
Electrical conductivity	μ S/cm	2040
Fluoride	mg/L	0.3
Iron	mg/L	0.46
Magnesium	mg/L	63
Manganese	mg/L	0.1
Nitrogen	mg/L	12
pH	pH	7.71
Phosphorus	mg/L	3
Polycyclic aromatic hydrocarbons	mg/L	<0.1
Potassium	mg/L	130
Sodium	mg/L	200
Sulfate	mg/L	500
Total organic carbon	mg/L	66
Total petroleum hydrocarbons	mg/L	0.12
Total phenolics	mg/L	<0.5
Total suspended solids	mg/L	10

POINT 3 PROCESS WATER TANK

Pollutant	Unit of measure	Result
Boron	mg/L	2.5
Cadmium	mg/L	<0.1
Copper	mg/kg	0.0001
Electrical conductivity	μ S/cm	7280
Iron	mg/L	0.09
Molybdenum	mg/L	0.12
Nickel	mg/L	0.008
pH	pH	8.36
Silver	mg/L	<1
Total suspended solids	mg/L	<5

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		