



ENVIRONMENTAL PROTECTION LICENCE 7654

WATER QUALITY MONITORING

February 2023

POINT 1 DAM CHARACTERISATION

Pollutant	Unit of measure	Result
Alkalinity	mg/L	329
Ammonia	mg/L	0.64
Calcium	mg/L	170
Chloride	mg/L	550
Electrical conductivity	$\mu\text{S/cm}$	3500
Fluoride	mg/L	0.76
Iron	mg/L	110
Magnesium	mg/L	100
Manganese	mg/L	0.31
Nitrogen	mg/L	34
pH	pH	9.17
Phosphorus	mg/L	5.9
Polycyclic aromatic hydrocarbons	mg/L	<1
Potassium	mg/L	290
Sodium	mg/L	330
Sulfate	mg/L	880
Total organic carbon	mg/L	200
Total petroleum hydrocarbons	mg/L	0.35
Total phenolics	mg/L	<0.05
Total suspended solids	mg/L	114

POINT 3 PROCESS WATER TANK

Pollutant	Unit of measure	Result
Boron	mg/L	2.3
Cadmium	mg/L	<0.1
Copper	mg/L	0.003
Electrical conductivity	$\mu\text{S/cm}$	7030
Iron	mg/L	0.11
Molybdenum	mg/L	0.16
Nickel	mg/L	0.011
pH	pH	8.35
Silver	mg/L	<1
Total suspended solids	mg/L	<5



POINT 2 SPILLWAY

Nil discharge from this POINT during the month of February 2023

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 from this POINT during the month of February 2023

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		