



ENVIRONMENTAL PROTECTION LICENCE 7654

WATER QUALITY MONITORING

August 2022

**POINT 1 DAM CHARACTERISATION**

Pollutant	Unit of measure	Result
Alkalinity	mg/L	330
Ammonia	mg/L	50.6
Calcium	mg/L	154
Chloride	mg/L	429
Electrical conductivity	$\mu\text{S/cm}$	3420
Fluoride	mg/L	0.2
Iron	mg/L	1.12
Magnesium	mg/L	75
Manganese	mg/L	0.197
Nitrogen	mg/L	114
pH	pH	8.1
Phosphorus	mg/L	4.27
Polycyclic aromatic hydrocarbons	mg/L	<0.05
Potassium	mg/L	264
Sodium	mg/L	232
Sulfate	mg/L	782
Total organic carbon	mg/L	246
Total petroleum hydrocarbons	mg/L	0.48
Total phenolics	mg/L	<0.01
Total suspended solids	mg/L	90

**POINT 3 PROCESS WATER TANK**

Pollutant	Unit of measure	Result
Boron	mg/L	1.98
Cadmium	mg/L	<0.0001
Copper	mg/kg	<0.001
Electrical conductivity	$\mu\text{S/cm}$	6390
Iron	mg/L	1.7
Molybdenum	mg/L	0.162
Nickel	mg/L	0.01
pH	pH	8.58
Silver	mg/L	0.01
Total suspended solids	mg/L	<5



**POINT 2 SPILLWAY**

**Nil discharge from this POINT during the month of August 2022**

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 August 2022**

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		