



ENVIRONMENTAL PROTECTION LICENCE 7654

WATER QUALITY MONITORING

MARCH 2021

POINT 1 DAM CHARACTERISATION

Monitoring not part of quarterly event

| Pollutant | Unit of measure | Result |
|----------------------------------|------------------|--------|
| Alkalinity | mg/L | |
| Ammonia | mg/L | |
| Calcium | mg/L | |
| Chloride | mg/L | |
| Electrical conductivity | $\mu\text{S/cm}$ | |
| Fluoride | mg/L | |
| Iron | mg/L | |
| Magnesium | mg/L | |
| Manganese | mg/L | |
| Nitrogen | mg/L | |
| pH | pH | |
| 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 | |

POINT 3 PROCESS WATER TANK

Monitoring not part of quarterly event

| Pollutant | Unit of measure | Result |
|-------------------------|------------------|--------|
| Boron | mg/L | |
| Cadmium | mg/L | |
| Copper | mg/kg | |
| Electrical conductivity | $\mu\text{S/cm}$ | |
| Iron | mg/L | |
| Molybdenum | mg/L | |
| Nickle | mg/L | |
| pH | pH | |
| Silver | mg/L | |
| Total suspended solids | mg/L | |



POINT 2 SPILLWAY

Nil discharge from this POINT during the month of March 2021

| 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

| Pollutant | Unit of measure | Concentration limit/Range | Result | Exceedance |
|------------------------------|-----------------|---------------------------|--------|------------|
| Ammonia | mg/L | - | 11 | n/a |
| Electrical conductivity | µS/cm | - | 1208 | n/a |
| Nitrogen | mg/L | - | 27 | n/a |
| pH | pH | 6.5-8.5 | 7.03 | no |
| Total organic carbon | mg/L | - | 68 | n/a |
| Total petroleum hydrocarbons | mg/L | - | 26 | n/a |
| Total suspended solids | mg/L | 50 | 61 | yes |