

Annex F4

Effluent Quality Monitoring Results

Table F4.1 Effluent Monitoring Results

| | | 4 Apr 23 | 4 May 23 | 1 Jun 23 |
|---------------------------------|----------------|----------|----------|----------|
| On-site Measurements | | | | |
| Temperature | °C | 30.8 | 35.6 | 36.6 |
| pH Value | pH Unit | 8.7 | 8.4 | 8.5 |
| Volume Discharged | m ³ | 1,268 | 1,182 | 799 |
| Laboratory Analysis | | | | |
| Suspended Solids (SS) | mg/L | 40.0 | 38.7 | 158 |
| Alkalinity | mg/L | 2270 | 2170 | 2280 |
| Ammoniacal-nitrogen | mg/L | 0.24 | 0.11 | 0.38 |
| Chloride | mg/L | 1660 | 1680 | 1980 |
| Nitrite-nitrogen | mg/L | 0.11 | 0.11 | 0.14 |
| Phosphate | mg/L | 9.5 | 8.94 | 5.76 |
| Sulphate | mg/L | 104 | 122 | 142 |
| Total Nitrogen | mg/L | 73 | 79.7 | 85.9 |
| Nitrate-nitrogen | mg/L | 20.7 | 26.7 | 35.7 |
| Total Inorganic Nitrogen | mg/L | 21.05 | 26.92 | 36.22 |
| Biochemical Oxygen Demand (BOD) | mg/L | 12 | 9 | 21 |
| Chemical Oxygen Demand (COD) | mg/L | 1120 | 941 | 809 |
| Oil & Grease | mg/L | <5 | <5 | <5 |
| Total Organic Carbon (TOC) | mg/L | 406 | 389 | 314 |
| Boron | µg/L | 5930 | 5570 | 5710 |
| Calcium | mg/L | 18.0 | 19.9 | 18.7 |
| Iron | mg/L | 2.0 | 2.23 | 1.63 |
| Magnesium | mg/L | 29.0 | 29.9 | 27.8 |
| Potassium | mg/L | 908 | 908 | 820 |
| Cadmium | µg/L | <1.0 | <1.0 | <1.0 |
| Chromium | µg/L | 167 | 178 | 123 |
| Copper | µg/L | <10 | 10 | <10 |
| Nickel | µg/L | 134 | 139 | 125 |
| Zinc | µg/L | 102 | 109 | 72 |