



ANNEX F4

EFFLUENT QUALITY MONITORING  
RESULTS

**TABLE F4.1 EFFLUENT MONITORING RESULTS**

| Date                            |                | 6 Jul 23 | 2 Aug 23 | 7 Sep 23 |
|---------------------------------|----------------|----------|----------|----------|
| <b>On-site Measurements</b>     |                |          |          |          |
| Temperature                     | °C             | 33.2     | 35.8     | 33.0     |
| pH Value                        | pH Unit        | 8.4      | 8.4      | 8.3      |
| Volume Discharged               | m <sup>3</sup> | 1,013    | 728      | 775      |
| <b>Laboratory Analysis</b>      |                |          |          |          |
| Suspended Solids (SS)           | mg/L           | 41.0     | 39.8     | 28.3     |
| Alkalinity                      | mg/L           | 1790     | 2300     | 1260     |
| Ammoniacal-nitrogen             | mg/L           | 0.26     | 0.02     | 0.44     |
| Chloride                        | mg/L           | 1820     | 2380     | 1510     |
| Nitrite-nitrogen                | mg/L           | 0.15     | 0.22     | <0.10    |
| Phosphate                       | mg/L           | 3.54     | 8.28     | 2.28     |
| Sulphate                        | mg/L           | 324      | 244      | 451      |
| Total Nitrogen                  | mg/L           | 114      | 119      | 104      |
| Nitrate-nitrogen                | mg/L           | 52.1     | 59.5     | 53.7     |
| Total Inorganic Nitrogen        | mg/L           | 52.51    | 59.74    | 54.14    |
| Biochemical Oxygen Demand (BOD) | mg/L           | 9        | 9        | 11       |
| Chemical Oxygen Demand (COD)    | mg/L           | 796      | 1130     | 675      |
| Oil & Grease                    | mg/L           | <5       | <5       | <5       |
| Total Organic Carbon (TOC)      | mg/L           | 288      | 354      | 254      |
| Boron                           | µg/L           | 5220     | 6000     | 3850     |
| Calcium                         | mg/L           | 40.3     | 21.7     | 37.2     |
| Iron                            | mg/L           | 2.0      | 1.84     | 1.13     |
| Magnesium                       | mg/L           | 28.8     | 31.2     | 36.0     |
| Potassium                       | mg/L           | 738      | 869      | 555      |
| Cadmium                         | µg/L           | <1.0     | <1.0     | <1.0     |
| Chromium                        | µg/L           | 111      | 129      | 85       |
| Copper                          | µg/L           | <10      | <10      | 11       |
| Nickel                          | µg/L           | 101      | 126      | 82       |
| Zinc                            | µg/L           | 99       | 82       | 114      |