

MANILLA WASTEWATER TREATMENT PLANT - CURRENT YEAR

LICENCE PERIOD: 1st Feb 2018 - 31st Jan 2019

POINT 1 NOTE: Monitoring Frequency - Quarterly

| Sample Date | TSS | BOD | Calcium | Conductivity | Faecal Coliforms | Magnesium | Nitrite | Nitrate | Ammonia | Oil and Grease | OC/OP | pH | Total Phosphorus | Potassium | Sodium | SAR | TKN |
|-------------|-----|-----|---------|--------------|------------------|-----------|---------|---------|---------|----------------|-------|-----|------------------|-----------|--------|-----|-----|
| EPA Limit | 30 | 20 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 28/02/2018 | 23 | 6 | 13.0 | 780 | 6 | 8 | <0.1 | <0.1 | <0.1 | <5 | - | 9.7 | 1.60 | 24 | 133 | 7.2 | 3.8 |
| 01/05/2018 | 15 | 6 | 13.2 | 930 | <1 | 13 | <0.1 | <0.1 | 0.1 | <5 | - | 9.6 | 1.07 | 26 | 147 | 6.9 | 3.2 |
| 22/08/2018 | 10 | 6 | 44.3 | 1220 | 10 | 36 | 0 | 0.4 | 4.3 | <5 | <PQL | 8.3 | 0.74 | 23 | 149 | 4.0 | 5.8 |
| 22/11/2018 | 18 | 5 | 37.0 | 1290 | 150.00 | 40 | 0 | 0.4 | 1.4 | <5 | - | 8.6 | 1.44 | 27 | 172 | 4.7 | 3.3 |

POINT 2 NOTE: Monitoring Frequency - Yearly

| Sample Date | CEC | Chloride | Conductivity | Ex. Calcium | Ex. Magnesium | Ex. Potassium | Ex. Sodium | Extractable P | Moisture | Nitrate | Ammonia | Total N | pH | Total Phos. | PSC | SHC | SAR |
|-------------|-----|----------|--------------|-------------|---------------|---------------|------------|---------------|----------|---------|---------|---------|-----|-------------|-----|-----|------|
| EPA Limit | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 01/05/2018 | 3.0 | 70 | 75 | 2.8 | <0.2 | 0.2 | <0.2 | 31.4 | 12.0 | 1.9 | <20 | 1780 | 7.6 | 669 | 717 | 328 | 7.06 |

POINT 3,4,5,6 NOTE: Monitoring Frequency - Quarterly

| Sample Date | Conductivity | Nitrate | Ammonia | Total N | Ortho. | pH | Total Pho. | SWL |
|-------------|--------------|---------|---------|---------|--------|-----|------------|-----|
| EPA Limit | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 28/02/2018 | DRY | DRY | DRY | DRY | DRY | DRY | DRY | DRY |
| 01/05/2018 | DRY | DRY | DRY | DRY | DRY | DRY | DRY | DRY |
| 22/08/2018 | DRY | DRY | DRY | DRY | DRY | DRY | DRY | DRY |
| 22/11/2018 | DRY | DRY | DRY | DRY | DRY | DRY | DRY | DRY |

POINT 7 NOTE: Monitoring Frequency - Each Overflow Event

| Sample Date | BOD | Total N | Oil and Grease | Total Phos. | TSS |
|-------------|-----|---------|----------------|-------------|-----|
| EPA Limit | N/A | N/A | N/A | N/A | N/A |
| N/A | | | | | |
| N/A | | | | | |
| N/A | | | | | |
| N/A | | | | | |