



CLARENCE TOWN WASTEWATER TREATMENT WORKS - MAY MONTHLY POLLUTION MONITORING SUMMARY

Environment Protection Licence No. 13250
 Date Obtained: 11 June 2014
 Date Published: 25 June 2014

Licensee Hunter Water Corporation
 36 Honeysuckle Drive
 NEWCASTLE WEST NSW 2302

QUALITY MONITORING

| EPA Id. No. 1 Site Code 5CT0001 | | Site Description - Discharge to utilisation area | | | | | | | | | | |
|------------------------------------|---------------------------------|--|--|--|------------|--------------|---------|------------|-------------|---------------|----------------|---------------|
| Pollutant | Unit of Measurement | Sampling Frequency | No. of times measured during the month for licence reporting | Monthly Summary 1 May 2014 to 31 May 2014 | | | | | | | | |
| | | | | Minimum | Mean Value | Median Value | Maximum | 3DGM Limit | 3DGM Actual | 100%ile Limit | 100%ile Actual | Within Limits |
| Aluminium | milligrams per litre | Yearly | - | - | - | - | - | N/A | N/A | N/A | N/A | N/A |
| BOD | milligrams per litre | Weekly | 6 | 2 | 6 | 5 | 9 | N/A | N/A | N/A | N/A | N/A |
| Cadmium | milligrams per litre | Yearly | - | - | - | - | - | N/A | N/A | N/A | N/A | N/A |
| Chloride | milligrams per litre | Monthly | 1 | 52 | 52 | 52 | 52 | N/A | N/A | N/A | N/A | N/A |
| Chlorophyll a | milligrams per litre | Weekly | 6 | 0.01 | 0.07 | 0.09 | 0.12 | N/A | N/A | N/A | N/A | N/A |
| Chromium | milligrams per litre | Yearly | - | - | - | - | - | N/A | N/A | N/A | N/A | N/A |
| Conductivity | microsiemens per centimetre | Quarterly | - | - | - | - | - | N/A | N/A | N/A | N/A | N/A |
| Copper | milligrams per litre | Yearly | - | - | - | - | - | N/A | N/A | N/A | N/A | N/A |
| Faecal Coliforms | colony forming units per 100 mL | Monthly | 1 | 110 | 110 | 110 | 110 | N/A | N/A | N/A | N/A | N/A |
| Iron | milligrams per litre | Yearly | - | - | - | - | - | N/A | N/A | N/A | N/A | N/A |
| Lead | milligrams per litre | Yearly | - | - | - | - | - | N/A | N/A | N/A | N/A | N/A |
| Magnesium | milligrams per litre | Yearly | - | - | - | - | - | N/A | N/A | N/A | N/A | N/A |
| Manganese | milligrams per litre | Yearly | - | - | - | - | - | N/A | N/A | N/A | N/A | N/A |
| Mercury | milligrams per litre | Yearly | - | - | - | - | - | N/A | N/A | N/A | N/A | N/A |
| Nitrate | milligrams per litre | Monthly | 1 | 0.06 | 0.06 | 0.06 | 0.06 | N/A | N/A | N/A | N/A | N/A |
| Nitrogen (ammonia) | milligrams per litre | Monthly | 1 | 0.16 | 0.16 | 0.16 | 0.16 | N/A | N/A | N/A | N/A | N/A |
| Oil and Grease | milligrams per litre | Monthly | 1 | <5 | <5 | <5 | <5 | N/A | N/A | 10 | <5 | Yes |
| pH | pH | Weekly | 6 | 7.83 | 8.05 | 7.96 | 8.49 | N/A | N/A | N/A | N/A | N/A |
| Potassium | milligrams per litre | Monthly | 1 | 8.3 | 8.3 | 8.3 | 8.3 | N/A | N/A | N/A | N/A | N/A |
| Total Nitrogen | milligrams per litre | Monthly | 1 | 2.86 | 2.86 | 2.86 | 2.86 | N/A | N/A | N/A | N/A | N/A |
| Total Phosphorous | milligrams per litre | Monthly | 1 | 2.50 | 2.50 | 2.50 | 2.50 | N/A | N/A | N/A | N/A | N/A |
| Total Suspended Solids | milligrams per litre | Weekly | 6 | 20 | 31 | 31 | 43 | N/A | N/A | N/A | N/A | N/A |
| Zinc | milligrams per litre | Yearly | - | - | - | - | - | N/A | N/A | N/A | N/A | N/A |

| EPA Id. No. 2 Site Code 5OV3100 | | Site Description - Overflow spillway | | | | | | | | | | |
|------------------------------------|----------------------|--------------------------------------|---|--|------------|--------------|---------|------------|-------------|---------------|----------------|---------------|
| Pollutant | Unit of Measurement | Sampling Frequency | No. of times measured during the month for licence reporting# | Monthly Summary 1 May 2014 to 31 May 2014 | | | | | | | | |
| | | | | Minimum | Mean Value | Median Value | Maximum | 3DGM Limit | 3DGM Actual | 100%ile Limit | 100%ile Actual | Within Limits |
| Biochemical Oxygen Demand | milligrams per litre | Special Frequency 1 | - | - | - | - | - | N/A | N/A | N/A | N/A | N/A |
| Chlorophyll a | milligrams per litre | Special Frequency 1 | - | - | - | - | - | N/A | N/A | N/A | N/A | N/A |
| Nitrate | milligrams per litre | Special Frequency 1 | - | - | - | - | - | N/A | N/A | N/A | N/A | N/A |
| Nitrogen (ammonia) | milligrams per litre | Special Frequency 1 | - | - | - | - | - | N/A | N/A | N/A | N/A | N/A |
| Oil and Grease | milligrams per litre | Special Frequency 1 | - | - | - | - | - | N/A | N/A | 10 | - | N/A |
| pH | pH | Special Frequency 1 | - | - | - | - | - | N/A | N/A | N/A | N/A | N/A |
| Total Nitrogen | milligrams per litre | Special Frequency 1 | - | - | - | - | - | N/A | N/A | N/A | N/A | N/A |
| Total Phosphorous | milligrams per litre | Special Frequency 1 | - | - | - | - | - | N/A | N/A | N/A | N/A | N/A |
| Total Suspended Solids | milligrams per litre | Special Frequency 1 | - | - | - | - | - | N/A | N/A | N/A | N/A | N/A |

No samples were collected or analysed during the month as no overflow from the spillway occurred during the month.

| EPA Id. No. 5 Site Code | | Site Description - Pumped discharge to Wallaroo Creek | | | | | | | | | | |
|----------------------------|----------------------|---|---|--|------------|--------------|---------|------------|-------------|---------------|----------------|---------------|
| Pollutant | Unit of Measurement | Sampling Frequency | No. of times measured during the month for licence reporting^ | Monthly Summary 1 May 2014 to 31 May 2014 | | | | | | | | |
| | | | | Minimum | Mean Value | Median Value | Maximum | 3DGM Limit | 3DGM Actual | 100%ile Limit | 100%ile Actual | Within Limits |
| Biochemical Oxygen Demand | milligrams per litre | Special Frequency 1 | - | - | - | - | - | N/A | N/A | N/A | N/A | N/A |
| Chlorophyll a | milligrams per litre | Special Frequency 1 | - | - | - | - | - | N/A | N/A | N/A | N/A | N/A |
| Nitrate | milligrams per litre | Special Frequency 1 | - | - | - | - | - | N/A | N/A | N/A | N/A | N/A |
| Nitrogen (ammonia) | milligrams per litre | Special Frequency 1 | - | - | - | - | - | N/A | N/A | N/A | N/A | N/A |
| Oil and Grease | milligrams per litre | Special Frequency 1 | - | - | - | - | - | N/A | N/A | 10 | - | N/A |
| pH | pH | Special Frequency 1 | - | - | - | - | - | N/A | N/A | N/A | N/A | N/A |
| Total Nitrogen | milligrams per litre | Special Frequency 1 | - | - | - | - | - | N/A | N/A | N/A | N/A | N/A |
| Total Phosphorous | milligrams per litre | Special Frequency 1 | - | - | - | - | - | N/A | N/A | N/A | N/A | N/A |
| Total Suspended Solids | milligrams per litre | Special Frequency 1 | - | - | - | - | - | N/A | N/A | N/A | N/A | N/A |

^ No samples were collected or analysed during the month as there was no discharge to Wallaroo Creek during the month.