



MORPETH WASTEWATER TREATMENT WORKS - SEPTEMBER MONTHLY POLLUTION MONITORING SUMMARY

Environment Protection Licence No. 10693
 Date Obtained: 3 October 2017
 Date Published: 19 October 2017

Licensee Hunter Water Corporation
 36 Honeysuckle Drive
 NEWCASTLE WEST NSW 2302

QUALITY MONITORING

| EPA Id. No. 1 Site Code 5DE1303 | | Site Description - Pipe from the disinfected effluent chamber to the Hunter River | | | | | | | | | | |
|---------------------------------------|---------------------------------|---|--|--|------------|--------------|---------|------------|-------------|---------------|----------------|---------------|
| Pollutant | Unit of Measurement | Sampling Frequency | No. of times measured during the month for licence reporting | Monthly Summary 1 September 2017 to 30 September 2017 | | | | | | | | |
| | | | | Minimum | Mean Value | Median Value | Maximum | 3DGM Limit | 3DGM Actual | 100%ile Limit | 100%ile Actual | Within Limits |
| Biochemical Oxygen Demand | milligrams per litre | Weekly | 4 | 2 | 3 | 4 | 4 | N/A | N/A | N/A | N/A | N/A |
| Faecal Coliforms | colony forming units per 100 mL | Monthly | 1 | 3500 | 3500 | 3500 | 3500 | N/A | N/A | N/A | N/A | N/A |
| Nitrate + Nitrite (oxidised nitrogen) | milligrams per litre | Monthly | 1 | 5.3 | 5.3 | 5.3 | 5.3 | N/A | N/A | N/A | N/A | N/A |
| Nitrogen (ammonia) | milligrams per litre | Monthly | 1 | 0.09 | 0.09 | 0.09 | 0.09 | N/A | N/A | N/A | N/A | N/A |
| Oil and Grease | milligrams per litre | Fortnightly | 2 | <2 | <2 | <2 | <2 | N/A | N/A | N/A | N/A | N/A |
| pH | pH | Weekly | 4 | 7.33 | 7.60 | 7.66 | 7.75 | N/A | N/A | 6.50 - 8.50 | 7.33 - 7.75 | Yes |
| Phosphorus (total) | milligrams per litre | Monthly | 1 | 0.24 | 0.24 | 0.24 | 0.24 | N/A | N/A | N/A | N/A | N/A |
| Total Kjeldahl Nitrogen | milligrams per litre | Monthly | 1 | 0.4 | 0.4 | 0.4 | 0.4 | N/A | N/A | N/A | N/A | N/A |
| Total Suspended Solids | milligrams per litre | Weekly | 4 | <1 | 4 | 4 | 6 | N/A | N/A | N/A | N/A | N/A |

| EPA Id. No. 4 Site Code 5PF1000 | | Site Description - Pipe from the Effluent Pump Station to the Hunter River | | | | | | | | | | |
|---------------------------------------|---------------------------------|--|--|--|------------|--------------|---------|------------|-------------|---------------|----------------|---------------|
| Pollutant | Unit of Measurement | Sampling Frequency | No. of times measured during the month for licence reporting * | Monthly Summary 1 September 2017 to 30 September 2017 | | | | | | | | |
| | | | | 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 |
| Faecal Coliforms | colony forming units per 100 mL | 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 |
| Nitrate + Nitrite (oxidised nitrogen) | 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 | N/A | N/A | N/A |
| Phosphorus (total) | milligrams per litre | Special Frequency 1 | - | - | - | - | - | N/A | N/A | N/A | N/A | N/A |
| Total Kjeldahl Nitrogen | 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 |
| pH | pH | Special Frequency 1 | - | - | - | - | - | N/A | N/A | N/A | N/A | N/A |

*No samples were collected as no discharge occurred during the month