

**Bathurst Regional Council  
Waste Water Treatment Works  
EPA Licence Number 1647**



**Date Data Published:** 6/02/2020  
**Summary of results for:** January  
**Number of measurements taken:** 4  
**Monitoring Frequency Required:** Weekly

**Point 1  
Discharge to Macquarie River**

|              | BOD<br>mg/L | Faecal<br>Coliforms<br>CFU/100mL | Total Nitrogen<br>mg/L | Oil and Grease<br>mg/L | pH               | Total<br>Phosphorus<br>mg/L | Total<br>Suspended<br>Solids<br>mg/L |
|--------------|-------------|----------------------------------|------------------------|------------------------|------------------|-----------------------------|--------------------------------------|
| <b>Limit</b> | <b>30</b>   | <b>600</b>                       | <b>20.0</b>            | <b>10</b>              | <b>6.5 - 8.5</b> | <b>2.00</b>                 | <b>30</b>                            |
| Minimum      | 2           | 6                                | 3.3                    | 2                      | 7.5              | 0.30                        | 5                                    |
| Mean         | 3           | 18                               | 4.5                    | 2                      | 7.5              | 0.34                        | 5                                    |
| Median       | 2           | 9                                | 4.1                    | 2                      | 7.5              | 0.35                        | 5                                    |
| Maximum      | 4           | 50                               | 6.6                    | 2                      | 7.6              | 0.37                        | 5                                    |
| Exceedance   | No          | No                               | No                     | No                     | No               | No                          | No                                   |

**Point 3  
Environmental Monitoring 50m Downstream of Point 1**

|         | BOD<br>mg/L | Faecal<br>Coliforms<br>CFU/100mL | Total Nitrogen<br>mg/L | Oil and Grease<br>mg/L | pH  | Total<br>Phosphorus<br>mg/L | Total<br>Suspended<br>Solids<br>mg/L |
|---------|-------------|----------------------------------|------------------------|------------------------|-----|-----------------------------|--------------------------------------|
| Minimum | 2           | 1400                             | 2.6                    | 2                      | 7.6 | 0.21                        | 5                                    |
| Mean    | 2           | 2725                             | 2.6                    | 2                      | 7.6 | 0.21                        | 5                                    |
| Median  | 2           | 2250                             | 2.6                    | 2                      | 7.6 | 0.21                        | 5                                    |
| Maximum | 2           | 5000                             | 2.6                    | 2                      | 7.6 | 0.21                        | 5                                    |

**Point 4  
Environmental Monitoring 50m Upstream of Point 1**

|         | BOD<br>mg/L | Faecal<br>Coliforms<br>CFU/100mL | Total Nitrogen<br>mg/L | Oil and Grease<br>mg/L | pH  | Total<br>Phosphorus<br>mg/L | Total<br>Suspended<br>Solids<br>mg/L |
|---------|-------------|----------------------------------|------------------------|------------------------|-----|-----------------------------|--------------------------------------|
| Minimum | 2           | 1300                             | 0.6                    | 2                      | 7.8 | 0.05                        | 7                                    |
| Mean    | 2           | 1450                             | 0.6                    | 2                      | 7.8 | 0.05                        | 7                                    |
| Median  | 2           | 1350                             | 0.6                    | 2                      | 7.8 | 0.05                        | 7                                    |
| Maximum | 2           | 1800                             | 0.6                    | 2                      | 7.8 | 0.05                        | 7                                    |

**Point 1**

|         | Volume<br>Discharged<br>kL |
|---------|----------------------------|
| Minimum | 10                         |
| Mean    | 6,416                      |
| Median  | 6,269                      |
| Maximum | 12,132                     |

**Summary of Units of Measure**

mg/L = milligrams per litre  
 CFU/100mL = colony forming units per 100 millilitres

**Bathurst Regional Council  
Waste Water Treatment Works  
EPA Licence Number 1647**



**Date Data Published:** 5/03/2020  
**Summary of results for:** February  
**Number of measurements taken:** 4  
**Monitoring Frequency Required:** Weekly

**Point 1  
Discharge to Macquarie River**

|              | BOD<br>mg/L | Faecal<br>Coliforms<br>CFU/100mL | Total Nitrogen<br>mg/L | Oil and Grease<br>mg/L | pH               | Total<br>Phosphorus<br>mg/L | Total<br>Suspended<br>Solids<br>mg/L |
|--------------|-------------|----------------------------------|------------------------|------------------------|------------------|-----------------------------|--------------------------------------|
| <b>Limit</b> | <b>30</b>   | <b>600</b>                       | <b>20.0</b>            | <b>10</b>              | <b>6.5 - 8.5</b> | <b>2.00</b>                 | <b>30</b>                            |
| Minimum      | 2           | 3                                | 4.3                    | 2                      | 7.4              | 0.23                        | 5                                    |
| Mean         | 3           | 82                               | 5.5                    | 2                      | 7.5              | 0.63                        | 5                                    |
| Median       | 2           | 77                               | 5.6                    | 2                      | 7.5              | 0.65                        | 5                                    |
| Maximum      | 4           | 170                              | 6.4                    | 2                      | 7.7              | 1.01                        | 6                                    |
| Exceedance   | No          | No                               | No                     | No                     | No               | No                          | No                                   |

**Point 3  
Environmental Monitoring 50m Downstream of Point 1**

|         | BOD<br>mg/L | Faecal<br>Coliforms<br>CFU/100mL | Total Nitrogen<br>mg/L | Oil and Grease<br>mg/L | pH  | Total<br>Phosphorus<br>mg/L | Total<br>Suspended<br>Solids<br>mg/L |
|---------|-------------|----------------------------------|------------------------|------------------------|-----|-----------------------------|--------------------------------------|
| Minimum | 3           | 100                              | 0.9                    | 2                      | 7.4 | 0.08                        | 29                                   |
| Mean    | 3           | 363                              | 0.9                    | 2                      | 7.4 | 0.08                        | 29                                   |
| Median  | 3           | 425                              | 0.9                    | 2                      | 7.4 | 0.08                        | 29                                   |
| Maximum | 3           | 500                              | 0.9                    | 2                      | 7.4 | 0.08                        | 29                                   |

**Point 4  
Environmental Monitoring 50m Upstream of Point 1**

|         | BOD<br>mg/L | Faecal<br>Coliforms<br>CFU/100mL | Total Nitrogen<br>mg/L | Oil and Grease<br>mg/L | pH  | Total<br>Phosphorus<br>mg/L | Total<br>Suspended<br>Solids<br>mg/L |
|---------|-------------|----------------------------------|------------------------|------------------------|-----|-----------------------------|--------------------------------------|
| Minimum | 2           | 220                              | 1.3                    | 2                      | 7.4 | 0.12                        | 20                                   |
| Mean    | 2           | 348                              | 1.3                    | 2                      | 7.4 | 0.12                        | 20                                   |
| Median  | 2           | 310                              | 1.3                    | 2                      | 7.4 | 0.12                        | 20                                   |
| Maximum | 2           | 550                              | 1.3                    | 2                      | 7.4 | 0.12                        | 20                                   |

**Point 1**

|         | Volume<br>Discharged<br>kL |
|---------|----------------------------|
| Minimum | 3,250                      |
| Mean    | 7,554                      |
| Median  | 7,156                      |
| Maximum | 12,896                     |

**Summary of Units of Measure**

mg/L = milligrams per litre  
 CFU/100mL = colony forming units per 100 millilitres

**Bathurst Regional Council  
Waste Water Treatment Works  
EPA Licence Number 1647**



**Date Data Published:** 8/04/2020  
**Summary of results for:** March  
**Number of measurements taken:** 4  
**Monitoring Frequency Required:** Weekly

**Point 1  
Discharge to Macquarie River**

|              | BOD<br>mg/L | Faecal<br>Coliforms<br>CFU/100mL | Total Nitrogen<br>mg/L | Oil and Grease<br>mg/L | pH               | Total<br>Phosphorus<br>mg/L | Total<br>Suspended<br>Solids<br>mg/L |
|--------------|-------------|----------------------------------|------------------------|------------------------|------------------|-----------------------------|--------------------------------------|
| <b>Limit</b> | <b>30</b>   | <b>600</b>                       | <b>20.0</b>            | <b>10</b>              | <b>6.5 - 8.5</b> | <b>2.00</b>                 | <b>30</b>                            |
| Minimum      | 2           | 3                                | 4.2                    | 2                      | 7.2              | 0.19                        | 5                                    |
| Mean         | 4           | 70                               | 4.8                    | 3                      | 7.2              | 0.20                        | 5                                    |
| Median       | 4           | 9                                | 4.3                    | 2                      | 7.2              | 0.19                        | 5                                    |
| Maximum      | 5           | 260                              | 6.4                    | 4                      | 7.3              | 0.22                        | 5                                    |
| Exceedance   | No          | No                               | No                     | No                     | No               | No                          | No                                   |

**Point 3  
Environmental Monitoring Macquarie River 50m Downstream of Point 1**

|         | BOD<br>mg/L | Faecal<br>Coliforms<br>CFU/100mL | Total Nitrogen<br>mg/L | Oil and Grease<br>mg/L | pH  | Total<br>Phosphorus<br>mg/L | Total<br>Suspended<br>Solids<br>mg/L |
|---------|-------------|----------------------------------|------------------------|------------------------|-----|-----------------------------|--------------------------------------|
| Minimum | 7           | 200                              | 0.8                    | 2                      | 7.3 | 0.09                        | 105                                  |
| Mean    | 7           | 765                              | 0.8                    | 2                      | 7.3 | 0.09                        | 105                                  |
| Median  | 7           | 530                              | 0.8                    | 2                      | 7.3 | 0.09                        | 105                                  |
| Maximum | 7           | 1800                             | 0.8                    | 2                      | 7.3 | 0.09                        | 105                                  |

**Point 4  
Environmental Monitoring Macquarie River Upstream of Wastewater Treatment Works**

|         | BOD<br>mg/L | Faecal<br>Coliforms<br>CFU/100mL | Total Nitrogen<br>mg/L | Oil and Grease<br>mg/L | pH  | Total<br>Phosphorus<br>mg/L | Total<br>Suspended<br>Solids<br>mg/L |
|---------|-------------|----------------------------------|------------------------|------------------------|-----|-----------------------------|--------------------------------------|
| Minimum | 6           | 100                              | 1.4                    | 2                      | 7.5 | 0.28                        | 16                                   |
| Mean    | 6           | 2625                             | 1.4                    | 2                      | 7.5 | 0.28                        | 16                                   |
| Median  | 6           | 2900                             | 1.4                    | 2                      | 7.5 | 0.28                        | 16                                   |
| Maximum | 6           | 4600                             | 1.4                    | 2                      | 7.5 | 0.28                        | 16                                   |

**Point 1**

|         | Volume<br>Discharged<br>kL |
|---------|----------------------------|
| Minimum | 5,925                      |
| Mean    | 8,396                      |
| Median  | 8,140                      |
| Maximum | 14,853                     |

**Summary of Units of Measure**

mg/L = milligrams per litre  
 CFU/100mL = colony forming units per 100 millilitres

**Bathurst Regional Council  
Waste Water Treatment Works  
EPA Licence Number 1647**



**Date Data Published:** 13/05/2020  
**Summary of results for:** April  
**Number of measurements taken:** 5  
**Monitoring Frequency Required:** Weekly

**Point 1  
Discharge to Macquarie River**

|              | BOD<br>mg/L | Faecal<br>Coliforms<br>CFU/100mL | Total Nitrogen<br>mg/L | Oil and Grease<br>mg/L | pH               | Total<br>Phosphorus<br>mg/L | Total<br>Suspended<br>Solids<br>mg/L |
|--------------|-------------|----------------------------------|------------------------|------------------------|------------------|-----------------------------|--------------------------------------|
| <b>Limit</b> | <b>30</b>   | <b>600</b>                       | <b>20.0</b>            | <b>10</b>              | <b>6.5 - 8.5</b> | <b>2.00</b>                 | <b>30</b>                            |
| Minimum      | 2           | 3                                | 4.3                    | 2                      | 6.9              | 0.23                        | 5                                    |
| Mean         | 3           | 42                               | 10.5                   | 2                      | 7.1              | 0.41                        | 5                                    |
| Median       | 2           | 3                                | 11.9                   | 2                      | 7.1              | 0.38                        | 5                                    |
| Maximum      | 4           | 160                              | 13.9                   | 2                      | 7.2              | 0.66                        | 5                                    |
| Exceedance   | No          | No                               | No                     | No                     | No               | No                          | No                                   |

**Point 3  
Environmental Monitoring Macquarie River 50m Downstream of Point 1**

|         | BOD<br>mg/L | Faecal<br>Coliforms<br>CFU/100mL | Total Nitrogen<br>mg/L | Oil and Grease<br>mg/L | pH  | Total<br>Phosphorus<br>mg/L | Total<br>Suspended<br>Solids<br>mg/L |
|---------|-------------|----------------------------------|------------------------|------------------------|-----|-----------------------------|--------------------------------------|
| Minimum | 2           | 17                               | 0.6                    | 3                      | 7.4 | 0.05                        | 13                                   |
| Mean    | 2           | 497                              | 0.6                    | 3                      | 7.4 | 0.05                        | 13                                   |
| Median  | 2           | 135                              | 0.6                    | 3                      | 7.4 | 0.05                        | 13                                   |
| Maximum | 2           | 1700                             | 0.6                    | 3                      | 7.4 | 0.05                        | 13                                   |

**Point 4  
Environmental Monitoring Macquarie River Upstream of Wastewater Treatment Works**

|         | BOD<br>mg/L | Faecal<br>Coliforms<br>CFU/100mL | Total Nitrogen<br>mg/L | Oil and Grease<br>mg/L | pH  | Total<br>Phosphorus<br>mg/L | Total<br>Suspended<br>Solids<br>mg/L |
|---------|-------------|----------------------------------|------------------------|------------------------|-----|-----------------------------|--------------------------------------|
| Minimum | 2           | 33                               | 0.5                    | 2                      | 7.4 | 0.05                        | 9                                    |
| Mean    | 2           | 243                              | 0.5                    | 2                      | 7.4 | 0.05                        | 9                                    |
| Median  | 2           | 69                               | 0.5                    | 2                      | 7.4 | 0.05                        | 9                                    |
| Maximum | 2           | 800                              | 0.5                    | 2                      | 7.4 | 0.05                        | 9                                    |

**Point 1**

|         | Volume<br>Discharged<br>kL |
|---------|----------------------------|
| Minimum | 7,896                      |
| Mean    | 9,273                      |
| Median  | 8,608                      |
| Maximum | 16,444                     |

**Summary of Units of Measure**

mg/L = milligrams per litre  
 CFU/100mL = colony forming units per 100 millilitres

**Bathurst Regional Council  
Waste Water Treatment Works  
EPA Licence Number 1647**



**Date Data Published:** 11/06/2020  
**Summary of results for:** May  
**Number of measurements taken:** 4  
**Monitoring Frequency Required:** Weekly

**Point 1  
Discharge to Macquarie River**

|              | BOD<br>mg/L | Faecal Coliforms<br>CFU/100mL | Total Nitrogen<br>mg/L | Oil and Grease<br>mg/L | pH               | Total Phosphorus<br>mg/L | Total Suspended Solids<br>mg/L |
|--------------|-------------|-------------------------------|------------------------|------------------------|------------------|--------------------------|--------------------------------|
| <b>Limit</b> | <b>30</b>   | <b>600</b>                    | <b>20.0</b>            | <b>10</b>              | <b>6.5 - 8.5</b> | <b>2.00</b>              | <b>30</b>                      |
| Minimum      | 2           | 3                             | 10.3                   | 2                      | 7.1              | 0.19                     | 5                              |
| Mean         | 2           | 7                             | 11.6                   | 2                      | 7.2              | 0.28                     | 6                              |
| Median       | 2           | 5                             | 11.3                   | 2                      | 7.2              | 0.30                     | 5                              |
| Maximum      | 2           | 16                            | 13.4                   | 3                      | 7.2              | 0.34                     | 8                              |
| Exceedance   | No          | No                            | No                     | No                     | No               | No                       | No                             |

**Point 3  
Environmental Monitoring Macquarie River 50m Downstream of Point 1**

|         | BOD<br>mg/L | Faecal Coliforms<br>CFU/100mL | Total Nitrogen<br>mg/L | Oil and Grease<br>mg/L | pH  | Total Phosphorus<br>mg/L | Total Suspended Solids<br>mg/L |
|---------|-------------|-------------------------------|------------------------|------------------------|-----|--------------------------|--------------------------------|
| Minimum | 2           | 35                            | 0.4                    | 2                      | 7.6 | 0.05                     | 5                              |
| Mean    | 2           | 97                            | 0.4                    | 2                      | 7.6 | 0.05                     | 5                              |
| Median  | 2           | 92                            | 0.4                    | 2                      | 7.6 | 0.05                     | 5                              |
| Maximum | 2           | 170                           | 0.4                    | 2                      | 7.6 | 0.05                     | 5                              |

**Point 4  
Environmental Monitoring Macquarie River Upstream of Wastewater Treatment Works**

|         | BOD<br>mg/L | Faecal Coliforms<br>CFU/100mL | Total Nitrogen<br>mg/L | Oil and Grease<br>mg/L | pH  | Total Phosphorus<br>mg/L | Total Suspended Solids<br>mg/L |
|---------|-------------|-------------------------------|------------------------|------------------------|-----|--------------------------|--------------------------------|
| Minimum | 2           | 13                            | 0.4                    | 2                      | 7.6 | 0.05                     | 5                              |
| Mean    | 2           | 101                           | 0.4                    | 2                      | 7.6 | 0.05                     | 5                              |
| Median  | 2           | 60                            | 0.4                    | 2                      | 7.6 | 0.05                     | 5                              |
| Maximum | 2           | 270                           | 0.4                    | 2                      | 7.6 | 0.05                     | 5                              |

**Point 1**

|         | Volume Discharged<br>kL |
|---------|-------------------------|
| Minimum | 1,615                   |
| Mean    | 9,482                   |
| Median  | 8,879                   |
| Maximum | 16,919                  |

**Summary of Units of Measure**

mg/L = milligrams per litre  
 CFU/100mL = colony forming units per 100 millilitres

**Bathurst Regional Council  
Waste Water Treatment Works  
EPA Licence Number 1647**



**Date Data Published:** 8/07/2020  
**Summary of results for:** June  
**Number of measurements taken:** 4  
**Monitoring Frequency Required:** Weekly

**Point 1  
Discharge to Macquarie River**

|              | BOD<br>mg/L | Faecal<br>Coliforms<br>CFU/100mL | Total Nitrogen<br>mg/L | Oil and Grease<br>mg/L | pH               | Total<br>Phosphorus<br>mg/L | Total<br>Suspended<br>Solids<br>mg/L |
|--------------|-------------|----------------------------------|------------------------|------------------------|------------------|-----------------------------|--------------------------------------|
| <b>Limit</b> | <b>30</b>   | <b>600</b>                       | <b>20.0</b>            | <b>10</b>              | <b>6.5 - 8.5</b> | <b>2.00</b>                 | <b>30</b>                            |
| Minimum      | 2           | 3                                | 9.7                    | 2                      | 7.1              | 0.16                        | 5                                    |
| Mean         | 2           | 5                                | 12.0                   | 3                      | 7.2              | 0.24                        | 6                                    |
| Median       | 2           | 5                                | 11.7                   | 2                      | 7.2              | 0.27                        | 5                                    |
| Maximum      | 3           | 6                                | 15.0                   | 5                      | 7.3              | 0.27                        | 9                                    |
| Exceedance   | No          | No                               | No                     | No                     | No               | No                          | No                                   |

**Point 3  
Environmental Monitoring Macquarie River 50m Downstream of Point 1**

|         | BOD<br>mg/L | Faecal<br>Coliforms<br>CFU/100mL | Total Nitrogen<br>mg/L | Oil and Grease<br>mg/L | pH  | Total<br>Phosphorus<br>mg/L | Total<br>Suspended<br>Solids<br>mg/L |
|---------|-------------|----------------------------------|------------------------|------------------------|-----|-----------------------------|--------------------------------------|
| Minimum | 2           | 84                               | 0.3                    | 2                      | 7.8 | 0.05                        | 7                                    |
| Mean    | 2           | 134                              | 0.3                    | 2                      | 7.8 | 0.05                        | 7                                    |
| Median  | 2           | 115                              | 0.3                    | 2                      | 7.8 | 0.05                        | 7                                    |
| Maximum | 2           | 220                              | 0.3                    | 2                      | 7.8 | 0.05                        | 7                                    |

**Point 4  
Environmental Monitoring Macquarie River Upstream of Wastewater Treatment Works**

|         | BOD<br>mg/L | Faecal<br>Coliforms<br>CFU/100mL | Total Nitrogen<br>mg/L | Oil and Grease<br>mg/L | pH  | Total<br>Phosphorus<br>mg/L | Total<br>Suspended<br>Solids<br>mg/L |
|---------|-------------|----------------------------------|------------------------|------------------------|-----|-----------------------------|--------------------------------------|
| Minimum | 2           | 55                               | 0.3                    | 2                      | 7.8 | 0.05                        | 12                                   |
| Mean    | 2           | 96                               | 0.3                    | 2                      | 7.8 | 0.05                        | 12                                   |
| Median  | 2           | 75                               | 0.3                    | 2                      | 7.8 | 0.05                        | 12                                   |
| Maximum | 2           | 180                              | 0.3                    | 2                      | 7.8 | 0.05                        | 12                                   |

**Point 1**

|         | Volume<br>Discharged<br>kL |
|---------|----------------------------|
| Minimum | 5,402                      |
| Mean    | 8,692                      |
| Median  | 8,589                      |
| Maximum | 11,850                     |

**Summary of Units of Measure**

mg/L = milligrams per litre  
 CFU/100mL = colony forming units per 100 millilitres

**Bathurst Regional Council  
Waste Water Treatment Works  
EPA Licence Number 1647**



**Date Data Published:** 10/08/2020  
**Summary of results for:** July  
**Number of measurements taken:** 5  
**Monitoring Frequency Required:** Weekly

**Point 1  
Discharge to Macquarie River**

|              | BOD<br>mg/L | Faecal<br>Coliforms<br>CFU/100mL | Total Nitrogen<br>mg/L | Oil and Grease<br>mg/L | pH               | Total<br>Phosphorus<br>mg/L | Total<br>Suspended<br>Solids<br>mg/L |
|--------------|-------------|----------------------------------|------------------------|------------------------|------------------|-----------------------------|--------------------------------------|
| <b>Limit</b> | <b>30</b>   | <b>600</b>                       | <b>20.0</b>            | <b>10</b>              | <b>6.5 - 8.5</b> | <b>2.00</b>                 | <b>30</b>                            |
| Minimum      | 3           | 3                                | 6.7                    | 2                      | 7.1              | 0.18                        | 5                                    |
| Mean         | 4           | 162                              | 9.4                    | 2                      | 7.1              | 0.27                        | 10                                   |
| Median       | 3           | 3                                | 7.6                    | 2                      | 7.1              | 0.27                        | 8                                    |
| Maximum      | 9           | 800*                             | 16.7                   | 3                      | 7.2              | 0.40                        | 22                                   |
| Exceedance   | No          | Yes                              | No                     | No                     | No               | No                          | No                                   |

**Point 3  
Environmental Monitoring Macquarie River 50m Downstream of Point 1**

|         | BOD<br>mg/L | Faecal<br>Coliforms<br>CFU/100mL | Total Nitrogen<br>mg/L | Oil and Grease<br>mg/L | pH  | Total<br>Phosphorus<br>mg/L | Total<br>Suspended<br>Solids<br>mg/L |
|---------|-------------|----------------------------------|------------------------|------------------------|-----|-----------------------------|--------------------------------------|
| Minimum | 2           | 58                               | 0.4                    | 2                      | 7.8 | 0.05                        | 10                                   |
| Mean    | 2           | 503                              | 0.4                    | 2                      | 7.8 | 0.05                        | 10                                   |
| Median  | 2           | 78                               | 0.4                    | 2                      | 7.8 | 0.05                        | 10                                   |
| Maximum | 2           | 1800                             | 0.4                    | 2                      | 7.8 | 0.05                        | 10                                   |

**Point 4  
Environmental Monitoring Macquarie River Upstream of Wastewater Treatment Works**

|         | BOD<br>mg/L | Faecal<br>Coliforms<br>CFU/100mL | Total Nitrogen<br>mg/L | Oil and Grease<br>mg/L | pH  | Total<br>Phosphorus<br>mg/L | Total<br>Suspended<br>Solids<br>mg/L |
|---------|-------------|----------------------------------|------------------------|------------------------|-----|-----------------------------|--------------------------------------|
| Minimum | 2           | 35                               | 0.3                    | 2                      | 7.9 | 0.05                        | 9                                    |
| Mean    | 2           | 509                              | 0.3                    | 2                      | 7.9 | 0.05                        | 9                                    |
| Median  | 2           | 50                               | 0.3                    | 2                      | 7.9 | 0.05                        | 9                                    |
| Maximum | 2           | 1900                             | 0.3                    | 2                      | 7.9 | 0.05                        | 9                                    |

**Point 1**

|         | Volume<br>Discharged<br>kL |
|---------|----------------------------|
| Minimum | 5,320                      |
| Mean    | 9,629                      |
| Median  | 8,830                      |
| Maximum | 2,1017^                    |

**Summary of Units of Measure**

mg/L = milligrams per litre

CFU/100mL = colony forming units per 100 millilitres

\* Equipment failure

^ 37.2 mm of rainfall within 48 hours

**Bathurst Regional Council  
Waste Water Treatment Works  
EPA Licence Number 1647**



**Date Data Published:** 3/09/2020  
**Summary of results for:** August  
**Number of measurements taken:** 4  
**Monitoring Frequency Required:** Weekly

**Point 1  
Discharge to Macquarie River**

|              | BOD<br>mg/L | Faecal Coliforms<br>CFU/100mL | Total Nitrogen<br>mg/L | Oil and Grease<br>mg/L | pH               | Total Phosphorus<br>mg/L | Total Suspended Solids<br>mg/L |
|--------------|-------------|-------------------------------|------------------------|------------------------|------------------|--------------------------|--------------------------------|
| <b>Limit</b> | <b>30</b>   | <b>600</b>                    | <b>20.0</b>            | <b>10</b>              | <b>6.5 - 8.5</b> | <b>2.00</b>              | <b>30</b>                      |
| Minimum      | 2           | 6                             | 8.4                    | 2                      | 7.1              | 0.22                     | 5                              |
| Mean         | 5           | 20                            | 9.2                    | 4                      | 7.2              | 0.25                     | 6                              |
| Median       | 5           | 20                            | 9.0                    | 4                      | 7.1              | 0.24                     | 5                              |
| Maximum      | 9           | 34                            | 10.2                   | 5                      | 7.2              | 0.32                     | 7                              |
| Exceedance   | No          | No                            | No                     | No                     | No               | No                       | No                             |

**Point 3  
Environmental Monitoring Macquarie River 50m Downstream of Point 1**

|         | BOD<br>mg/L | Faecal Coliforms<br>CFU/100mL | Total Nitrogen<br>mg/L | Oil and Grease<br>mg/L | pH  | Total Phosphorus<br>mg/L | Total Suspended Solids<br>mg/L |
|---------|-------------|-------------------------------|------------------------|------------------------|-----|--------------------------|--------------------------------|
| Minimum | 4           | 61                            | 1.0                    | 5                      | 7.4 | 0.11                     | 25                             |
| Mean    | 4           | 193                           | 1.0                    | 5                      | 7.4 | 0.11                     | 25                             |
| Median  | 4           | 111                           | 1.0                    | 5                      | 7.4 | 0.11                     | 25                             |
| Maximum | 4           | 490                           | 1.0                    | 5                      | 7.4 | 0.11                     | 25                             |

**Point 4  
Environmental Monitoring Macquarie River Upstream of Wastewater Treatment Works**

|         | BOD<br>mg/L | Faecal Coliforms<br>CFU/100mL | Total Nitrogen<br>mg/L | Oil and Grease<br>mg/L | pH  | Total Phosphorus<br>mg/L | Total Suspended Solids<br>mg/L |
|---------|-------------|-------------------------------|------------------------|------------------------|-----|--------------------------|--------------------------------|
| Minimum | 4           | 39                            | 1.0                    | 5                      | 7.4 | 0.09                     | 20                             |
| Mean    | 4           | 190                           | 1.0                    | 5                      | 7.4 | 0.09                     | 20                             |
| Median  | 4           | 145                           | 1.0                    | 5                      | 7.4 | 0.09                     | 20                             |
| Maximum | 4           | 430                           | 1.0                    | 5                      | 7.4 | 0.09                     | 20                             |

**Point 1**

|         | Volume Discharged<br>kL |
|---------|-------------------------|
| Minimum | 8,358                   |
| Mean    | 10,454                  |
| Median  | 10,163                  |
| Maximum | 14,007                  |

**Summary of Units of Measure**

mg/L = milligrams per litre  
 CFU/100mL = colony forming units per 100 millilitres



**Bathurst Regional Council  
Waste Water Treatment Works  
EPA Licence Number 1647**



**Date Data Published:** 7/10/2020  
**Summary of results for:** September  
**Number of measurements taken:** 5  
**Monitoring Frequency Required:** Weekly

**Point 1  
Discharge to Macquarie River**

|              | <b>BOD</b> | <b>Faecal Coliforms</b> | <b>Total Nitrogen</b> | <b>Oil and Grease</b> | <b>pH</b>        | <b>Total Phosphorus</b> | <b>Total Suspended Solids</b> |
|--------------|------------|-------------------------|-----------------------|-----------------------|------------------|-------------------------|-------------------------------|
|              | mg/L       | CFU/100mL               | mg/L                  | mg/L                  |                  | mg/L                    | mg/L                          |
| <b>Limit</b> | <b>30</b>  | <b>600</b>              | <b>20.0</b>           | <b>10</b>             | <b>6.5 - 8.5</b> | <b>2.00</b>             | <b>30</b>                     |
| Minimum      | 2          | 3                       | 5.5                   | 2                     | 7.2              | 0.31                    | 5                             |
| Mean         | 6          | 13                      | 8.8                   | 2                     | 7.4              | 0.49                    | 10                            |
| Median       | 6          | 9                       | 6.6                   | 2                     | 7.4              | 0.40                    | 6                             |
| Maximum      | 9          | 31                      | 17.7                  | 2                     | 7.6              | 0.89                    | 26                            |
| Exceedance   | No         | No                      | No                    | No                    | No               | No                      | No                            |

**Point 3  
Environmental Monitoring Macquarie River 50m Downstream of Point 1**

|         | <b>BOD</b> | <b>Faecal Coliforms</b> | <b>Total Nitrogen</b> | <b>Oil and Grease</b> | <b>pH</b> | <b>Total Phosphorus</b> | <b>Total Suspended Solids</b> |
|---------|------------|-------------------------|-----------------------|-----------------------|-----------|-------------------------|-------------------------------|
|         | mg/L       | CFU/100mL               | mg/L                  | mg/L                  |           | mg/L                    | mg/L                          |
| Minimum | 2          | 74                      | 0.8                   | 2                     | 7.7       | 0.05                    | 5                             |
| Mean    | 2          | 436                     | 0.8                   | 2                     | 7.7       | 0.05                    | 5                             |
| Median  | 2          | 85                      | 0.8                   | 2                     | 7.7       | 0.05                    | 5                             |
| Maximum | 2          | 1500                    | 0.8                   | 2                     | 7.7       | 0.05                    | 5                             |

**Point 4  
Environmental Monitoring Macquarie River Upstream of Wastewater Treatment Works**

|         | <b>BOD</b> | <b>Faecal Coliforms</b> | <b>Total Nitrogen</b> | <b>Oil and Grease</b> | <b>pH</b> | <b>Total Phosphorus</b> | <b>Total Suspended Solids</b> |
|---------|------------|-------------------------|-----------------------|-----------------------|-----------|-------------------------|-------------------------------|
|         | mg/L       | CFU/100mL               | mg/L                  | mg/L                  |           | mg/L                    | mg/L                          |
| Minimum | 2          | 33                      | 0.8                   | 2                     | 7.8       | 0.05                    | 5                             |
| Mean    | 2          | 286                     | 0.8                   | 2                     | 7.8       | 0.05                    | 5                             |
| Median  | 2          | 156                     | 0.8                   | 2                     | 7.8       | 0.05                    | 5                             |
| Maximum | 2          | 800                     | 0.8                   | 2                     | 7.8       | 0.05                    | 5                             |

**Point 1**

|         | <b>Volume Discharged</b> |
|---------|--------------------------|
|         | kL                       |
| Minimum | 1,852                    |
| Mean    | 10,204                   |
| Median  | 10,093                   |
| Maximum | 16,630*                  |

**Summary of Units of Measure**

mg/L = milligrams per litre  
 CFU/100mL = colony forming units per 100 millilitres

\*Rainfall on 21/09/2020 was 22.5mm

**Bathurst Regional Council  
Waste Water Treatment Works  
EPA Licence Number 1647**



Date data published: 5/11/2020  
 Summary of results for: October  
 Number of measurements taken: 4  
 Monitoring frequency required: Weekly

**Point 1  
Discharge to Macquarie River**

|              | BOD<br>mg/L | Faecal<br>Coliforms<br>CFU/100mL | Total Nitrogen<br>mg/L | Oil and Grease<br>mg/L | pH               | Total<br>Phosphorus<br>mg/L | Total<br>Suspended<br>Solids<br>mg/L |
|--------------|-------------|----------------------------------|------------------------|------------------------|------------------|-----------------------------|--------------------------------------|
| <b>Limit</b> | <b>30</b>   | <b>600</b>                       | <b>20.0</b>            | <b>10</b>              | <b>6.5 - 8.5</b> | <b>2.00</b>                 | <b>30</b>                            |
| Minimum      | 2           | 3                                | 3.6                    | 2                      | 7.2              | 0.46                        | 5                                    |
| Mean         | 2           | 13                               | 4.4                    | 2                      | 7.3              | 0.50                        | 6                                    |
| Median       | 2           | 11                               | 4.2                    | 2                      | 7.3              | 0.49                        | 5                                    |
| Maximum      | 2           | 28                               | 5.6                    | 2                      | 7.4              | 0.58                        | 8                                    |
| Exceedance   | No          | No                               | No                     | No                     | No               | No                          | No                                   |

**Point 3  
Environmental Monitoring Macquarie River 50m Downstream of Point 1**

|         | BOD<br>mg/L | Faecal<br>Coliforms<br>CFU/100mL | Total Nitrogen<br>mg/L | Oil and Grease<br>mg/L | pH  | Total<br>Phosphorus<br>mg/L | Total<br>Suspended<br>Solids<br>mg/L |
|---------|-------------|----------------------------------|------------------------|------------------------|-----|-----------------------------|--------------------------------------|
| Minimum | 2           | 120                              | 0.7                    | 2                      | 7.7 | 0.07                        | 17                                   |
| Mean    | 2           | 390                              | 0.7                    | 2                      | 7.7 | 0.07                        | 17                                   |
| Median  | 2           | 220                              | 0.7                    | 2                      | 7.7 | 0.07                        | 17                                   |
| Maximum | 2           | 1000                             | 0.7                    | 2                      | 7.7 | 0.07                        | 17                                   |

**Point 4  
Environmental Monitoring Macquarie River Upstream of Wastewater Treatment Works**

|         | BOD<br>mg/L | Faecal<br>Coliforms<br>CFU/100mL | Total Nitrogen<br>mg/L | Oil and Grease<br>mg/L | pH  | Total<br>Phosphorus<br>mg/L | Total<br>Suspended<br>Solids<br>mg/L |
|---------|-------------|----------------------------------|------------------------|------------------------|-----|-----------------------------|--------------------------------------|
| Minimum | 2           | 100                              | 0.6                    | 2                      | 7.8 | 0.07                        | 20                                   |
| Mean    | 2           | 195                              | 0.6                    | 2                      | 7.8 | 0.07                        | 20                                   |
| Median  | 2           | 140                              | 0.6                    | 2                      | 7.8 | 0.07                        | 20                                   |
| Maximum | 2           | 400                              | 0.6                    | 2                      | 7.8 | 0.07                        | 20                                   |

**Point 1**

|         | Volume<br>Discharged<br>kL |
|---------|----------------------------|
| Minimum | 7,632                      |
| Mean    | 9,233                      |
| Median  | 8,826                      |
| Maximum | 13,209                     |

**Summary of Units of Measure**

mg/L = milligrams per litre  
 CFU/100mL = colony forming units per 100 millilitres

**Bathurst Regional Council  
Waste Water Treatment Works  
EPA Licence Number 1647**



Date data published: 2/12/2020  
 Summary of results for: November  
 Number of measurements taken: 4  
 Monitoring frequency required: Weekly

**Point 1  
Discharge to Macquarie River**

|              | BOD<br>mg/L | Faecal<br>Coliforms<br>CFU/100mL | Total Nitrogen<br>mg/L | Oil and Grease<br>mg/L | pH               | Total<br>Phosphorus<br>mg/L | Total<br>Suspended<br>Solids<br>mg/L |
|--------------|-------------|----------------------------------|------------------------|------------------------|------------------|-----------------------------|--------------------------------------|
| <b>Limit</b> | <b>30</b>   | <b>600</b>                       | <b>20.0</b>            | <b>10</b>              | <b>6.5 - 8.5</b> | <b>2.00</b>                 | <b>30</b>                            |
| Minimum      | 2           | 3                                | 3.8                    | 2                      | 7.1              | 0.31                        | 5                                    |
| Mean         | 3           | 4                                | 4.4                    | 2                      | 7.3              | 0.49                        | 5                                    |
| Median       | 2           | 3                                | 4.5                    | 2                      | 7.3              | 0.37                        | 5                                    |
| Maximum      | 5           | 6                                | 4.8                    | 2                      | 7.4              | 0.92                        | 5                                    |
| Exceedance   | No          | No                               | No                     | No                     | No               | No                          | No                                   |

**Point 3  
Environmental Monitoring Macquarie River 50m Downstream of Point 1**

|         | BOD<br>mg/L | Faecal<br>Coliforms<br>CFU/100mL | Total Nitrogen<br>mg/L | Oil and Grease<br>mg/L | pH  | Total<br>Phosphorus<br>mg/L | Total<br>Suspended<br>Solids<br>mg/L |
|---------|-------------|----------------------------------|------------------------|------------------------|-----|-----------------------------|--------------------------------------|
| Minimum | 5           | 67                               | 0.8                    | 2                      | 7.1 | 0.06                        | 28                                   |
| Mean    | 5           | 257                              | 0.8                    | 2                      | 7.1 | 0.06                        | 28                                   |
| Median  | 5           | 155                              | 0.8                    | 2                      | 7.1 | 0.06                        | 28                                   |
| Maximum | 5           | 650                              | 0.8                    | 2                      | 7.1 | 0.06                        | 28                                   |

**Point 4  
Environmental Monitoring Macquarie River Upstream of Wastewater Treatment Works**

|         | BOD<br>mg/L | Faecal<br>Coliforms<br>CFU/100mL | Total Nitrogen<br>mg/L | Oil and Grease<br>mg/L | pH  | Total<br>Phosphorus<br>mg/L | Total<br>Suspended<br>Solids<br>mg/L |
|---------|-------------|----------------------------------|------------------------|------------------------|-----|-----------------------------|--------------------------------------|
| Minimum | 6           | 150                              | 0.9                    | 2                      | 7.1 | 0.07                        | 27                                   |
| Mean    | 6           | 233                              | 0.9                    | 2                      | 7.1 | 0.07                        | 27                                   |
| Median  | 6           | 225                              | 0.9                    | 2                      | 7.1 | 0.07                        | 27                                   |
| Maximum | 6           | 330                              | 0.9                    | 2                      | 7.1 | 0.07                        | 27                                   |

**Point 1**

|         | Volume<br>Discharged<br>kL |
|---------|----------------------------|
| Minimum | 6,747                      |
| Mean    | 8,755                      |
| Median  | 8,596                      |
| Maximum | 11,582                     |

**Summary of Units of Measure**

mg/L = milligrams per litre  
 CFU/100mL = colony forming units per 100 millilitres

**Bathurst Regional Council  
Waste Water Treatment Works  
EPA Licence Number 1647**



Date data published: 11/01/2021  
 Summary of results for: December  
 Number of measurements taken: 5  
 Monitoring frequency required: Weekly

**Point 1  
Discharge to Macquarie River**

|              | BOD<br>mg/L | Faecal<br>Coliforms<br>CFU/100mL | Total Nitrogen<br>mg/L | Oil and Grease<br>mg/L | pH               | Total<br>Phosphorus<br>mg/L | Total<br>Suspended<br>Solids<br>mg/L |
|--------------|-------------|----------------------------------|------------------------|------------------------|------------------|-----------------------------|--------------------------------------|
| <b>Limit</b> | <b>30</b>   | <b>600</b>                       | <b>20.0</b>            | <b>10</b>              | <b>6.5 - 8.5</b> | <b>2.00</b>                 | <b>30</b>                            |
| Minimum      | 2           | 3                                | 3.2                    | 2                      | 7.2              | 0.20                        | 5                                    |
| Mean         | 3           | 12                               | 5.0                    | 2                      | 7.4              | 0.42                        | 6                                    |
| Median       | 2           | 3                                | 4.7                    | 2                      | 7.4              | 0.29                        | 5                                    |
| Maximum      | 4           | 31                               | 8.0                    | 2                      | 7.5              | 0.96                        | 7                                    |
| Exceedance   | No          | No                               | No                     | No                     | No               | No                          | No                                   |

**Point 3  
Environmental Monitoring Macquarie River 50m Downstream of Point 1**

|         | BOD<br>mg/L | Faecal<br>Coliforms<br>CFU/100mL | Total Nitrogen<br>mg/L | Oil and Grease<br>mg/L | pH  | Total<br>Phosphorus<br>mg/L | Total<br>Suspended<br>Solids<br>mg/L |
|---------|-------------|----------------------------------|------------------------|------------------------|-----|-----------------------------|--------------------------------------|
| Minimum | 2           | 100                              | 0.7                    | 2                      | 7.4 | 0.07                        | 24                                   |
| Mean    | 2           | 1076                             | 0.7                    | 2                      | 7.5 | 0.07                        | 26                                   |
| Median  | 2           | 1600                             | 0.7                    | 2                      | 7.5 | 0.07                        | 26                                   |
| Maximum | 2           | 1800                             | 0.7                    | 2                      | 7.6 | 0.07                        | 28                                   |

**Point 4  
Environmental Monitoring Macquarie River Upstream of Wastewater Treatment Works**

|         | BOD<br>mg/L | Faecal<br>Coliforms<br>CFU/100mL | Total Nitrogen<br>mg/L | Oil and Grease<br>mg/L | pH  | Total<br>Phosphorus<br>mg/L | Total<br>Suspended<br>Solids<br>mg/L |
|---------|-------------|----------------------------------|------------------------|------------------------|-----|-----------------------------|--------------------------------------|
| Minimum | 2           | 200                              | 0.6                    | 2                      | 7.4 | 0.06                        | 18                                   |
| Mean    | 2           | 326                              | 0.7                    | 2                      | 7.5 | 0.07                        | 20                                   |
| Median  | 2           | 300                              | 0.7                    | 2                      | 7.5 | 0.07                        | 20                                   |
| Maximum | 2           | 530                              | 0.7                    | 2                      | 7.6 | 0.07                        | 22                                   |

**Point 1**

|         | Volume<br>Discharged<br>kL |
|---------|----------------------------|
| Minimum | 6,437                      |
| Mean    | 8,625                      |
| Median  | 8,640                      |
| Maximum | 11,696                     |

**Summary of Units of Measure**

mg/L = milligrams per litre  
 CFU/100mL = colony forming units per 100 millilitres