

# Riverstone Wastewater Treatment Plant 2019-20 Pollution Monitoring Summary



## EPL 1796

Summary period: 01-07-2019 to 30-06-2020

Date published: 10-08-2020

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

| Table 1: 50 percentile yearly summary  |                 |  |                   |                |                |                     |                     |               |
|--|-----------------|--|-------------------|----------------|----------------|---------------------|---------------------|---------------|
| EPA Point 3<br>Site code RS0003        |                 | Point description: Downstream of the weir in the chlorine contact tank |                   |                |                |                     |                     |               |
| pollutant                              | unit of measure | sampling frequency   | number of samples | minimum result | maximum result | 50 percentile limit | 50 percentile value | within limits |
| carbonaceous biochemical oxygen demand | mg/L            | every 6 days   | 61                | <2             | <2             | 10                  | <2                  | yes           |
| nitrogen (ammonia)                     | mg/L            | every 6 days   | 61                | <0.01          | 5.27           | 1                   | 0.01                | yes           |
| total suspended solids                 | mg/L            | every 6 days   | 61                | <2             | 7              | 10                  | <2                  | yes           |

| Table 1: 50 percentile yearly summary    |                 |   |                   |                |                |                     |                     |               |
|--|-----------------|---|-------------------|----------------|----------------|---------------------|---------------------|---------------|
| EPA Point 4<br>Site code RS0004          |                 | Point description: At the outlet of the chlorine contact tank |                   |                |                |                     |                     |               |
| pollutant                                | unit of measure | sampling frequency  | number of samples | minimum result | maximum result | 50 percentile limit | 50 percentile value | within limits |
| Ceriodaphnia dubia immobilisation (EC50) | % Effluent/Vol  | monthly   | 12                | 100            | 100            | 50                  | 100                 | yes           |

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**Table 2: 80 percentile yearly summary**

| EPA Point 4<br>Site code RS0004 |                 | Point description: At the outlet of the chlorine contact tank |                   |                |                |                     |                     |               |
|---------------------------------|-----------------|---|-------------------|----------------|----------------|---------------------|---------------------|---------------|
| pollutant                       | unit of measure | sampling frequency  | number of samples | minimum result | maximum result | 80 percentile limit | 80 percentile value | within limits |
| faecal coliforms                | CFU/100mL       | every 6 days  | 61                | <1             | 57             | 200                 | 14                  | yes           |

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**Table 3: 90 percentile yearly summary**

| EPA Point 3<br>Site code RS0003        |                 | Point description: Downstream of the weir in the chlorine contact tank |                   |                |                |                     |                     |              |
|--|-----------------|--|-------------------|----------------|----------------|---------------------|---------------------|--------------|
| pollutant                              | unit of measure | sampling frequency   | number of samples | minimum result | maximum result | 90 percentile limit | 90 percentile value | within limit |
| aluminium                              | ug/L            | monthly  | 12                | 26             | 118            | 3,200               | 49                  | yes          |
| carbonaceous biochemical oxygen demand | mg/L            | every 6 days   | 61                | <2             | <2             | 15                  | <2                  | yes          |
| cobalt                                 | ug/L            | monthly  | 12                | 0.2            | 0.5            | 8                   | 0.4                 | yes          |
| copper                                 | ug/L            | monthly  | 12                | <0.5           | 7.9            | 79                  | 4.9                 | yes          |
| cyanide                                | ug/L            | monthly  | 12                | <5             | <5             | 240                 | <5                  | yes          |
| iron                                   | ug/L            | monthly  | 12                | 7              | 24             | 650                 | 21                  | yes          |
| nickel                                 | ug/L            | monthly  | 12                | 0.8            | 2              | 120                 | 1.7                 | yes          |
| nitrogen (ammonia)                     | mg/L            | every 6 days   | 61                | <0.01          | 5.27           | 5                   | 0.02                | yes          |
| total suspended solids                 | mg/L            | every 6 days   | 61                | <2             | 7              | 15                  | <2                  | yes          |
| zinc                                   | ug/L            | monthly  | 12                | 6              | 160            | 990                 | 12                  | yes          |

**Table 3: 90 percentile yearly summary**

| EPA Point 4<br>Site code RS0004 |                 | Point description: At the outlet of the chlorine contact tank |                   |                |                |                     |                     |              |
|---------------------------------|-----------------|---|-------------------|----------------|----------------|---------------------|---------------------|--------------|
| pollutant                       | unit of measure | sampling frequency  | number of samples | minimum result | maximum result | 90 percentile limit | 90 percentile value | within limit |
| chlorine (total residual)       | mg/L            | every 6 days  | 61                | <0.04          | 0.51           | 0.1                 | <0.04               | yes          |
| hydrogen sulphide (unionised)   | ug/L            | monthly   | 12                | <30            | <30            | 340                 | <30                 | yes          |

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**Table 4: 100 percentile yearly summary**

| EPA Point 3<br>Site code RS0003 |                 | Point description: Downstream of the weir in the chlorine contact tank |                   |                |                |                      |                      |               |
|---------------------------------|-----------------|--|-------------------|----------------|----------------|----------------------|----------------------|---------------|
| pollutant                       | unit of measure | sampling frequency   | number of samples | minimum result | maximum result | 100 percentile limit | 100 percentile value | within limits |
| nitrogen (total)                | mg/L            | every 6 days   | 61                | 0.72           | 8.25           | 45                   | 8.25                 | yes           |
| phosphorus                      | mg/L            | every 6 days   | 61                | 0.01           | 0.05           | 5                    | 0.05                 | yes           |

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**Table 5: Average yearly summary**

| EPA Point 3<br>Site code RS0003 |                 | Point description: Downstream of the weir in the chlorine contact tank |                   |                |                |               |               |               |
|---------------------------------|-----------------|--|-------------------|----------------|----------------|---------------|---------------|---------------|
| pollutant                       | unit of measure | sampling frequency   | number of samples | minimum result | maximum result | Average limit | Average value | within limits |
| aluminium                       | ug/L            | monthly  | 12                | 26             | 118            | 330           | 43            | yes           |
| cobalt                          | ug/L            | monthly  | 12                | 0.2            | 0.5            | 2.9           | 0.4           | yes           |
| copper                          | ug/L            | monthly  | 12                | <0.5           | 7.9            | 14.4          | 2             | yes           |
| cyanide                         | ug/L            | monthly  | 12                | <5             | <5             | 21            | <5            | yes           |
| iron                            | ug/L            | monthly  | 12                | 7              | 24             | 380           | 14            | yes           |
| nickel                          | ug/L            | monthly  | 12                | 0.8            | 2              | 35            | 1             | yes           |
| zinc                            | ug/L            | monthly  | 12                | 6              | 160            | 70            | 21            | yes           |

**Table 5: Average yearly summary**

| EPA Point 4<br>Site code RS0004 |                 | Point description: At the outlet of the chlorine contact tank |                   |                |                |               |               |               |
|---------------------------------|-----------------|---|-------------------|----------------|----------------|---------------|---------------|---------------|
| pollutant                       | unit of measure | sampling frequency  | number of samples | minimum result | maximum result | Average limit | Average value | within limits |
| hydrogen sulphide (unionised)   | ug/L            | monthly   | 12                | <30            | <30            | 83            | <30           | yes           |