

# North Richmond Water Resource Recovery Facility

## July Pollution Monitoring Summary



### EPL 190

Summary period: 01-07-2025 to 31-07-2025  
 Date obtained: 06-08-2025  
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**Licensee:** Sydney Water Corporation  
 PO Box 399  
 PARRAMATTA NSW 2124

**Table 1: 3 Day Geometric Mean data**

| EPA Point 4<br>Site code NR0004 |                 | Point description: Downstream of the weir from the disinfection facilities |            |             |               |
|---------------------------------|-----------------|----------------------------------------------------------------------------|------------|-------------|---------------|
| pollutant                       | unit of measure | sampling frequency                                                         | 3DGM limit | 3DGM Actual | within limits |
| biochemical oxygen demand       | mg/L            | monthly                                                                    | 30         | <2          | yes           |
| total suspended solids          | mg/L            | monthly                                                                    | 10         | 4           | yes           |

3 Day Geometric Mean (3DGM) is a way to average a set of values and is commonly used with water quality assessments which show a great deal of variability. 3DGM is calculated by multiplying the results of the analysis of three samples collected on three consecutive days and then taking the cubed root of that amount.

**Table 2: Routine monitoring data**

| EPA Point 4<br>Site code NR0004 |                 | Point description: Downstream of the weir from the disinfection facilities |                   |                |             |                |
|---------------------------------|-----------------|----------------------------------------------------------------------------|-------------------|----------------|-------------|----------------|
| pollutant                       | unit of measure | sampling frequency                                                         | number of samples | minimum result | mean result | maximum result |
| aluminium                       | ug/L            | monthly                                                                    | 1                 | -              | -           | 579            |
| biochemical oxygen demand       | mg/L            | every 6 days                                                               | 5                 | <2             | <2          | 2              |
| copper                          | ug/L            | monthly                                                                    | 1                 | -              | -           | 6.7            |
| diazinon                        | ug/L            | monthly                                                                    | 1                 | -              | -           | <0.1           |
| iron                            | ug/L            | monthly                                                                    | 1                 | -              | -           | 23             |
| nitrogen (ammonia)              | mg/L            | every 6 days                                                               | 5                 | 1.1            | 1.49        | 1.88           |
| nitrogen (total)                | mg/L            | every 6 days                                                               | 5                 | 8.71           | 9.78        | 11             |
| phosphorus (total)              | mg/L            | every 6 days                                                               | 5                 | 0.35           | 0.45        | 0.55           |
| total suspended solids          | mg/L            | every 6 days                                                               | 5                 | 3              | 4           | 5              |
| zinc                            | ug/L            | monthly                                                                    | 1                 | -              | -           | 29             |

| EPA Point 5<br>Site code NR0005          |                 | Point description: Outlet of the disinfection facilities |                   |                |             |                |
|------------------------------------------|-----------------|----------------------------------------------------------|-------------------|----------------|-------------|----------------|
| pollutant                                | unit of measure | sampling frequency                                       | number of samples | minimum result | mean result | maximum result |
| Ceriodaphnia dubia immobilisation (EC50) | % Effluent/Vol  | monthly                                                  | 1                 | -              | -           | 100            |
| faecal coliforms                         | CFU/100mL       | every 6 days                                             | 5                 | 2              | 6           | 11             |
| hydrogen sulphide (unionised)            | ug/L            | monthly                                                  | 1                 | -              | -           | <30            |

Average and percentile limits are only applied annually for routine monitoring data in Table 2.

Effluent quality monitoring results obtained from EPA Points 4 and 5 are used to indicate the quality of water discharged at EPA Point 1 (discharge to waters).