

# North Richmond Water Resource Recovery Facility

## June Pollution Monitoring Summary



### EPL 190

Summary period: 01-06-2024 to 30-06-2024  
Date obtained: 08-07-2024  
Date published: 22-07-2024

Licensee: Sydney Water Corporation  
PO Box 399  
PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 4 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	2	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 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	-	-	268
biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2
copper	ug/L	monthly	1	-	-	6.8
diazinon	ug/L	monthly	1	-	-	<0.1
iron	ug/L	monthly	1	-	-	8
nitrogen (ammonia)	mg/L	every 6 days	5	0.45	0.53	0.57
nitrogen (total)	mg/L	every 6 days	5	7.73	9.58	11.2
phosphorus (total)	mg/L	every 6 days	5	0.18	0.21	0.24
total suspended solids	mg/L	every 6 days	5	2	3	4
zinc	ug/L	monthly	1	-	-	15

EPA Point 5 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	<1	1	3
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).

# North Richmond Water Resource Recovery Facility

## May Pollution Monitoring Summary



### EPL 190

Summary period: 01-05-2024 to 31-05-2024  
Date obtained: 11-06-2024  
Date published: 21-06-2024

Licensee: Sydney Water Corporation  
PO Box 399  
PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 4 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 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	-	-	383
biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2
copper	ug/L	monthly	1	-	-	5.6
diazinon	ug/L	monthly	1	-	-	<0.1
iron	ug/L	monthly	1	-	-	14
nitrogen (ammonia)	mg/L	every 6 days	5	0.31	0.41	0.53
nitrogen (total)	mg/L	every 6 days	5	7.76	8.5	8.96
phosphorus (total)	mg/L	every 6 days	5	0.22	0.27	0.34
total suspended solids	mg/L	every 6 days	5	<2	3	4
zinc	ug/L	monthly	1	-	-	15

EPA Point 5 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	<1	45	220
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).

# North Richmond Water Resource Recovery Facility

## April Pollution Monitoring Summary



### EPL 190

Summary period: 01-04-2024 to 30-04-2024  
Date obtained: 07-05-2024  
Date published: 20-05-2024

Licensee: Sydney Water Corporation  
PO Box 399  
PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 4 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	3	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 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	-	-	427
biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	2
copper	ug/L	monthly	1	-	-	6.4
diazinon	ug/L	monthly	1	-	-	<0.1
iron	ug/L	monthly	1	-	-	24
nitrogen (ammonia)	mg/L	every 6 days	5	0.45	0.59	0.78
nitrogen (total)	mg/L	every 6 days	5	8.32	9.12	9.82
phosphorus (total)	mg/L	every 6 days	5	0.36	0.5	0.68
total suspended solids	mg/L	every 6 days	5	3	4	8
zinc	ug/L	monthly	1	-	-	15

EPA Point 5 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	8	23
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).

# North Richmond Water Resource Recovery Facility

## March Pollution Monitoring Summary



### EPL 190

Summary period: 01-03-2024 to 31-03-2024  
Date obtained: 08-04-2024  
Date published: 18-04-2024

Licensee: Sydney Water Corporation  
PO Box 399  
PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 4 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	3	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 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	-	-	496
biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2
copper	ug/L	monthly	1	-	-	7.8
diazinon	ug/L	monthly	1	-	-	<0.1
iron	ug/L	monthly	1	-	-	34
nitrogen (ammonia)	mg/L	every 6 days	5	0.46	0.55	0.61
nitrogen (total)	mg/L	every 6 days	5	8.38	9.37	10.3
phosphorus (total)	mg/L	every 6 days	5	0.4	0.45	0.52
total suspended solids	mg/L	every 6 days	5	<2	3	4
zinc	ug/L	monthly	1	-	-	23

EPA Point 5 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	6	<1	735	4,400
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).

# North Richmond Water Resource Recovery Facility

## February Pollution Monitoring Summary



### EPL 190

Summary period: 01-02-2024 to 29-02-2024  
Date obtained: 12-03-2024  
Date published: 25-03-2024

Licensee: Sydney Water Corporation  
PO Box 399  
PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 4 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	8	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 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	-	-	650
biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	3
copper	ug/L	monthly	1	-	-	11.4
cyanide	ug/L	bi-annually	1	-	-	<5
diazinon	ug/L	monthly	1	-	-	<0.1
iron	ug/L	monthly	1	-	-	52
nitrogen (ammonia)	mg/L	every 6 days	5	0.65	1.68	3.33
nitrogen (total)	mg/L	every 6 days	5	9.38	13.38	17.7
phosphorus (total)	mg/L	every 6 days	5	0.57	1.16	2.18
total suspended solids	mg/L	every 6 days	5	5	8	15
zinc	ug/L	monthly	1	-	-	33

EPA Point 5 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	4	<1	1231	4,900
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).

# North Richmond Water Resource Recovery Facility

## January Pollution Monitoring Summary



### EPL 190

Summary period: 01-01-2024 to 31-01-2024  
Date obtained: 07-02-2024  
Date published: 19-02-2024

Licensee: Sydney Water Corporation  
PO Box 399  
PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 4 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	5	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 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	-	-	669
biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2
copper	ug/L	monthly	1	-	-	5.5
diazinon	ug/L	monthly	1	-	-	<0.1
iron	ug/L	monthly	1	-	-	55
nitrogen (ammonia)	mg/L	every 6 days	5	0.74	0.96	1.57
nitrogen (total)	mg/L	every 6 days	5	8.16	9.31	10.1
phosphorus (total)	mg/L	every 6 days	5	0.31	0.38	0.5
total suspended solids	mg/L	every 6 days	5	3	4	5
zinc	ug/L	monthly	1	-	-	16

EPA Point 5 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	6	2	22	52
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).

# North Richmond Water Resource Recovery Facility

## December Pollution Monitoring Summary



### EPL 190

Summary period: 01-12-2023 to 31-12-2023  
Date obtained: 10-01-2024  
Date published: 22-01-2024

Licensee: Sydney Water Corporation  
PO Box 399  
PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 4 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	3	yes
total suspended solids	mg/L	monthly	10	9	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 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	-	-	558
biochemical oxygen demand	mg/L	every 6 days	6	<2	<2	3
copper	ug/L	monthly	1	-	-	8.9
diazinon	ug/L	monthly	1	-	-	<0.1
iron	ug/L	monthly	1	-	-	34
nitrogen (ammonia)	mg/L	every 6 days	6	0.28	0.53	0.9
nitrogen (total)	mg/L	every 6 days	6	8.27	9.42	10.9
phosphorus (total)	mg/L	every 6 days	6	0.25	0.41	0.66
total suspended solids	mg/L	every 6 days	6	2	5	8
zinc	ug/L	monthly	1	-	-	31

EPA Point 5 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	3	884	2,200
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).

# North Richmond Water Resource Recovery Facility

## November Pollution Monitoring Summary



# EPL 190

Summary period: 01-11-2023 to 30-11-2023

Date obtained: 06-12-2023

Date published: 11 -12-2023

**Licensee:** Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

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

EPA Point 4 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	3	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 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	-	-	343
biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	3
copper	ug/L	monthly	1	-	-	8.8
diazinon	ug/L	monthly	1	-	-	<0.1
iron	ug/L	monthly	1	-	-	51
nitrogen (ammonia)	mg/L	every 6 days	5	0.44	0.66	0.84
nitrogen (total)	mg/L	every 6 days	5	7.67	8.77	9.86
phosphorus (total)	mg/L	every 6 days	5	0.2	0.26	0.33
total suspended solids	mg/L	every 6 days	5	2	3	5
zinc	ug/L	monthly	1	-	-	33

EPA Point 5 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	20	138	350
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30

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# North Richmond Water Resource Recovery Facility

## October Pollution Monitoring Summary



### EPL 190

Summary period: 01-10-2023 to 31-10-2023

Date obtained: 03-11-2023

Date published: 17-11-2023

**Licensee:** Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

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

EPA Point 4 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 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	-	-	326
biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	4
copper	ug/L	monthly	1	-	-	7.3
diazinon	ug/L	monthly	1	-	-	<0.1
iron	ug/L	monthly	1	-	-	21
nitrogen (ammonia)	mg/L	every 6 days	5	0.32	0.89	1.44
nitrogen (total)	mg/L	every 6 days	5	8.42	9.17	9.85
phosphorus (total)	mg/L	every 6 days	5	0.14	0.2	0.26
total suspended solids	mg/L	every 6 days	5	3	5	6
zinc	ug/L	monthly	1	-	-	32

  

EPA Point 5 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	82	260
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).

# North Richmond Water Resource Recovery Facility

## September Pollution Monitoring Summary



### EPL 190

Summary period: 01-09-2023 to 30-09-2023

Date obtained: 09-10-2023

Date published: 13-10-2023

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

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

EPA Point 4 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	3	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 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	-	-	424
biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	2
copper	ug/L	monthly	1	-	-	4.1
diazinon	ug/L	monthly	1	-	-	<0.1
iron	ug/L	monthly	1	-	-	19
nitrogen (ammonia)	mg/L	every 6 days	5	1.23	1.39	1.47
nitrogen (total)	mg/L	every 6 days	5	7.16	7.86	8.63
phosphorus (total)	mg/L	every 6 days	5	0.11	0.16	0.21
total suspended solids	mg/L	every 6 days	5	3	4	4
zinc	ug/L	monthly	1	-	-	38

  

EPA Point 5 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	1	55	260
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).

# North Richmond Water Resource Recovery Facility

## August Pollution Monitoring Summary



### EPL 190

Summary period: 01-08-2023 to 31-08-2023

Date obtained: 05-09-2023

Date published: 14-09-2023

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

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

EPA Point 4 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 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	-	-	743
biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	2
copper	ug/L	monthly	1	-	-	5.3
cyanide	ug/L	bi-annually	1	-	-	<5
diazinon	ug/L	monthly	1	-	-	<0.1
iron	ug/L	monthly	1	-	-	21
nitrogen (ammonia)	mg/L	every 6 days	5	0.77	1.08	1.44
nitrogen (total)	mg/L	every 6 days	5	6.15	8.38	11.2
phosphorus (total)	mg/L	every 6 days	5	0.17	0.25	0.38
total suspended solids	mg/L	every 6 days	5	4	5	8
zinc	ug/L	monthly	1	-	-	28

EPA Point 5 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	<1	7	30
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).

# North Richmond Water Resource Recovery Facility

## July Pollution Monitoring Summary



### EPL 190

Summary period: 01-07-2023 to 31-07-2023

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Licensee: Sydney Water Corporation

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

EPA Point 4 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	2	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 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	-	-	303
biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2
copper	ug/L	monthly	1	-	-	3.6
diazinon	ug/L	monthly	1	-	-	<0.1
iron	ug/L	monthly	1	-	-	18
nitrogen (ammonia)	mg/L	every 6 days	5	0.95	1.14	1.47
nitrogen (total)	mg/L	every 6 days	5	6.06	7.29	8.07
phosphorus (total)	mg/L	every 6 days	5	0.07	0.11	0.18
total suspended solids	mg/L	every 6 days	5	<2	2	8
zinc	ug/L	monthly	1	-	-	37

  

EPA Point 5 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	<1	9	44
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).