

# Cronulla Water Resource Recovery Facility

## June Pollution Monitoring Summary



### EPL 1728

Summary period: 01-06-2023 to 30-06-2023

Date obtained: 03-07-2023

Date published: 13-07-2023

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

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

EPA Point 3 Site code CR0003		Point description: Inlet to the UV chamber			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
biochemical oxygen demand	mg/L	monthly	40	3	yes
carbonaceous biochemical oxygen demand	mg/L	monthly	40	<2	yes
oil and grease	mg/L	monthly	15	<5	yes
total suspended solids	mg/L	monthly	30	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 3 Site code CR0003		Point description: Inlet to the UV chamber				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	24
biochemical oxygen demand	mg/L	every 6 days	5	3	4	5
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2
chlorpyrifos	ug/L	monthly	1	-	-	<0.05
copper	ug/L	monthly	1	-	-	4
cyanide	ug/L	monthly	1	-	-	<5
diazinon	ug/L	monthly	1	-	-	<0.1
nitrogen (ammonia)	mg/L	monthly	1	-	-	30.1
nonylphenol ethoxylate	ug/L	monthly	1	-	-	<5
oil and grease	mg/L	every 6 days	5	<5	<5	<5
total suspended solids	mg/L	every 6 days	5	<2	<2	<2
zinc	ug/L	monthly	1	-	-	23

EPA Point 17 Site code CR0017		Point description: Outlet of the UV chamber				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
faecal coliforms	CFU/100mL	every 6 days	5	6	1637	5,000
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100

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

Effluent quality monitoring results obtained from EPA Points 3 and 17 are used to indicate the quality of water discharged at EPA Point 1 (discharge to waters).

# Cronulla Water Resource Recovery Facility

## May Pollution Monitoring Summary



### EPL 1728

Summary period: 01-05-2023 to 31-05-2023

Date obtained: 07-06-2023

Date published: 21-06-2023

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

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

EPA Point 3 Site code CR0003		Point description: Inlet to the UV chamber			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
biochemical oxygen demand	mg/L	monthly	40	<2	yes
carbonaceous biochemical oxygen demand	mg/L	monthly	40	<2	yes
oil and grease	mg/L	monthly	15	<5	yes
total suspended solids	mg/L	monthly	30	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 3 Site code CR0003		Point description: Inlet to the UV chamber				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	17
biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	2
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2
chlorpyrifos	ug/L	monthly	1	-	-	<0.05
copper	ug/L	monthly	1	-	-	4.3
cyanide	ug/L	monthly	1	-	-	<5
diazinon	ug/L	monthly	1	-	-	<0.1
nitrogen (ammonia)	mg/L	monthly	1	-	-	17.5
nonylphenol ethoxylate	ug/L	monthly	1	-	-	<5
oil and grease	mg/L	every 6 days	5	<5	<5	<5
total suspended solids	mg/L	every 6 days	5	<2	<2	<2
zinc	ug/L	monthly	1	-	-	21

EPA Point 17 Site code CR0017		Point description: Outlet of the UV chamber				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
faecal coliforms	CFU/100mL	every 6 days	5	1	896	3,400
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100

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

Effluent quality monitoring results obtained from EPA Points 3 and 17 are used to indicate the quality of water discharged at EPA Point 1 (discharge to waters).

# Cronulla Water Resource Recovery Facility

## April Pollution Monitoring Summary



### EPL 1728

Summary period: 01-04-2023 to 30-04-2023

Date obtained: 15-05-2023

Date published: 19-05-2023

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

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

EPA Point 3 Site code CR0003		Point description: Inlet to the UV chamber			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
biochemical oxygen demand	mg/L	monthly	40	4	yes
carbonaceous biochemical oxygen demand	mg/L	monthly	40	<2	yes
oil and grease	mg/L	monthly	15	<5	yes
total suspended solids	mg/L	monthly	30	<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 3 Site code CR0003		Point description: Inlet to the UV chamber				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	15
biochemical oxygen demand	mg/L	every 6 days	5	<2	2	6
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2
chlorpyrifos	ug/L	monthly	1	-	-	<0.05
copper	ug/L	monthly	1	-	-	3.2
cyanide	ug/L	monthly	1	-	-	<5
diazinon	ug/L	monthly	1	-	-	<0.1
nitrogen (ammonia)	mg/L	monthly	1	-	-	16.3
nonylphenol ethoxylate	ug/L	monthly	1	-	-	<5
oil and grease	mg/L	every 6 days	5	<5	<5	<5
total suspended solids	mg/L	every 6 days	5	<2	<2	<2
zinc	ug/L	monthly	1	-	-	14

EPA Point 17 Site code CR0017		Point description: Outlet of the UV chamber				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
faecal coliforms	CFU/100mL	every 6 days	5	1	1612	7,700
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100

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

Effluent quality monitoring results obtained from EPA Points 3 and 17 are used to indicate the quality of water discharged at EPA Point 1 (discharge to waters).

# Cronulla Water Resource Recovery Facility

## March Pollution Monitoring Summary



### EPL 1728

Summary period: 01-03-2023 to 31-03-2023

Date obtained: 05-04-2023

Date published: 14-04-2023

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

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

EPA Point 3 Site code CR0003		Point description: Inlet to the UV chamber			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
biochemical oxygen demand	mg/L	monthly	40	<2	yes
carbonaceous biochemical oxygen demand	mg/L	monthly	40	<2	yes
oil and grease	mg/L	monthly	15	<5	yes
total suspended solids	mg/L	monthly	30	<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 3 Site code CR0003		Point description: Inlet to the UV chamber				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	16
biochemical oxygen demand	mg/L	every 6 days	5	<2	2	6
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2
chlorpyrifos	ug/L	monthly	1	-	-	<0.05
copper	ug/L	monthly	1	-	-	2.6
cyanide	ug/L	monthly	1	-	-	<5
diazinon	ug/L	monthly	1	-	-	<0.1
nitrogen (ammonia)	mg/L	monthly	1	-	-	12.3
nonylphenol ethoxylate	ug/L	monthly	1	-	-	<5
oil and grease	mg/L	every 6 days	5	<5	<5	<5
total suspended solids	mg/L	every 6 days	5	<2	<2	<2
zinc	ug/L	monthly	1	-	-	18

EPA Point 17 Site code CR0017		Point description: Outlet of the UV chamber				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
faecal coliforms	CFU/100mL	every 6 days	5	15	3709	18,000
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	82.7

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

Effluent quality monitoring results obtained from EPA Points 3 and 17 are used to indicate the quality of water discharged at EPA Point 1 (discharge to waters).

# Cronulla Water Resource Recovery Facility

## February Pollution Monitoring Summary



### EPL 1728

Summary period: 01-02-2023 to 28-02-2023

Date obtained: 06-03-2023

Date published: 17-03-2023

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

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

EPA Point 3 Site code CR0003		Point description: Inlet to the UV chamber			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
biochemical oxygen demand	mg/L	monthly	40	2	yes
carbonaceous biochemical oxygen demand	mg/L	monthly	40	<2	yes
oil and grease	mg/L	monthly	15	<5	yes
total suspended solids	mg/L	monthly	30	<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 3 Site code CR0003		Point description: Inlet to the UV chamber				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	23
biochemical oxygen demand	mg/L	every 6 days	5	<2	2	4
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	4
chlorpyrifos	ug/L	monthly	1	-	-	<0.05
copper	ug/L	monthly	1	-	-	4.5
cyanide	ug/L	monthly	1	-	-	<5
diazinon	ug/L	monthly	1	-	-	<0.1
nitrogen (ammonia)	mg/L	monthly	1	-	-	10.7
nonylphenol ethoxylate	ug/L	monthly	1	-	-	<5
oil and grease	mg/L	every 6 days	5	<5	<5	<5
total suspended solids	mg/L	every 6 days	5	<2	<2	<2
zinc	ug/L	monthly	1	-	-	23

EPA Point 17 Site code CR0017		Point description: Outlet of the UV chamber				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
faecal coliforms	CFU/100mL	every 6 days	5	10	2684	12,000
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100

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

Effluent quality monitoring results obtained from EPA Points 3 and 17 are used to indicate the quality of water discharged at EPA Point 1 (discharge to waters).

# Cronulla Water Resource Recovery Facility

## January Pollution Monitoring Summary



### EPL 1728

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

Date obtained: 03-02-2023

Date published: 14-02-2023

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

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

EPA Point 3 Site code CR0003		Point description: Inlet to the UV chamber			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
biochemical oxygen demand	mg/L	monthly	40	2	yes
carbonaceous biochemical oxygen demand	mg/L	monthly	40	<2	yes
oil and grease	mg/L	monthly	15	<5	yes
total suspended solids	mg/L	monthly	30	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 3 Site code CR0003		Point description: Inlet to the UV chamber				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	22
biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	3
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2
chlorpyrifos	ug/L	monthly	1	-	-	<0.05
copper	ug/L	monthly	1	-	-	3.1
cyanide	ug/L	monthly	1	-	-	<5
diazinon	ug/L	monthly	1	-	-	<0.1
nitrogen (ammonia)	mg/L	monthly	1	-	-	16.1
nonylphenol ethoxylate	ug/L	monthly	1	-	-	<5
oil and grease	mg/L	every 6 days	5	<5	<5	<5
total suspended solids	mg/L	every 6 days	5	<2	<2	<2
zinc	ug/L	monthly	1	-	-	16

EPA Point 17 Site code CR0017		Point description: Outlet of the UV chamber				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
faecal coliforms	CFU/100mL	every 6 days	5	4	98	460
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100

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

Effluent quality monitoring results obtained from EPA Points 3 and 17 are used to indicate the quality of water discharged at EPA Point 1 (discharge to waters).

# Cronulla Water Resource Recovery Facility

## December Pollution Monitoring Summary



### EPL 1728

Summary period: 01-12-2022 to 31-12-2022

Date obtained: 06-01-2023

Date published: 18-01-2023

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

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

EPA Point 3 Site code CR0003		Point description: Inlet to the UV chamber			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
biochemical oxygen demand	mg/L	monthly	40	13	yes
carbonaceous biochemical oxygen demand	mg/L	monthly	40	3	yes
oil and grease	mg/L	monthly	15	<5	yes
total suspended solids	mg/L	monthly	30	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 3 Site code CR0003		Point description: Inlet to the UV chamber				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	29
biochemical oxygen demand	mg/L	every 6 days	5	<2	5	14
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	3
chlorpyrifos	ug/L	monthly	1	-	-	<0.05
copper	ug/L	monthly	1	-	-	6
cyanide	ug/L	monthly	1	-	-	<5
diazinon	ug/L	monthly	1	-	-	<0.1
nitrogen (ammonia)	mg/L	monthly	1	-	-	11
nonylphenol ethoxylate	ug/L	monthly	1	-	-	<5
oil and grease	mg/L	every 6 days	5	<5	<5	<5
total suspended solids	mg/L	every 6 days	5	<2	<2	3
zinc	ug/L	monthly	1	-	-	22

  

EPA Point 17 Site code CR0017		Point description: Outlet of the UV chamber				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
faecal coliforms	CFU/100mL	every 6 days	5	<1	71	330
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100

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

Effluent quality monitoring results obtained from EPA Points 3 and 17 are used to indicate the quality of water discharged at EPA Point 1 (discharge to waters).

# Cronulla Water Resource Recovery Facility

## November Pollution Monitoring Summary



### EPL 1728

Summary period: 01-11-2022 to 30-11-2022

Date obtained: 08-12-2022

Date published: 16-12-2022

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

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

EPA Point 3 Site code CR0003		Point description: Inlet to the UV chamber			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
biochemical oxygen demand	mg/L	monthly	40	4	yes
carbonaceous biochemical oxygen demand	mg/L	monthly	40	<2	yes
oil and grease	mg/L	monthly	15	<5	yes
total suspended solids	mg/L	monthly	30	<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 3 Site code CR0003		Point description: Inlet to the UV chamber				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	20
biochemical oxygen demand	mg/L	every 6 days	5	<2	3.4	6
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2
chlorpyrifos	ug/L	monthly	1	-	-	<0.05
copper	ug/L	monthly	1	-	-	3
cyanide	ug/L	monthly	1	-	-	<5
diazinon	ug/L	monthly	1	-	-	<0.1
nitrogen (ammonia)	mg/L	monthly	1	-	-	29.4
nonylphenol ethoxylate	ug/L	monthly	1	-	-	<5
oil and grease	mg/L	every 6 days	5	<5	<5	<5
total suspended solids	mg/L	every 6 days	5	<2	<2	<2
zinc	ug/L	monthly	1	-	-	14

EPA Point 17 Site code CR0017		Point description: Outlet of the UV chamber				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
faecal coliforms	CFU/100mL	every 6 days	5	<1	1050	4,600
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	77.2

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

Effluent quality monitoring results obtained from EPA Points 3 and 17 are used to indicate the quality of water discharged at EPA Point 1 (discharge to waters).



# Cronulla Water Resource Recovery Facility

## October Pollution Monitoring Summary



### EPL 1728

Summary period: 01-10-2022 to 31-10-2022

Date obtained: 07-11-2022

Date published: 16-11-2022

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

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

EPA Point 3 Site code CR0003		Point description: Inlet to the UV chamber			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
biochemical oxygen demand	mg/L	monthly	40	26	yes
carbonaceous biochemical oxygen demand	mg/L	monthly	40	18	yes
oil and grease	mg/L	monthly	15	<5	yes
total suspended solids	mg/L	monthly	30	32	no <sup>1</sup>

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 3 Site code CR0003		Point description: Inlet to the UV chamber				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	182
biochemical oxygen demand	mg/L	every 6 days	5	2	7.6	21
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	3	14
chlorpyrifos	ug/L	monthly	1	-	-	<0.05
copper	ug/L	monthly	1	-	-	13.5
cyanide	ug/L	monthly	1	-	-	<5
diazinon	ug/L	monthly	1	-	-	<0.1
nitrogen (ammonia)	mg/L	monthly	1	-	-	22.5
nonylphenol ethoxylate	ug/L	monthly	1	-	-	8
oil and grease	mg/L	every 6 days	5	<5	<5	<5
total suspended solids	mg/L	every 6 days	5	<2	5	23
zinc	ug/L	monthly	1	-	-	31

  

EPA Point 17 Site code CR0017		Point description: Outlet of the UV chamber				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
faecal coliforms	CFU/100mL	every 6 days	5	1	510	2,500
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100

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

Effluent quality monitoring results obtained from EPA Points 3 and 17 are used to indicate the quality of water discharged at EPA Point 1 (discharge to waters).

<sup>1</sup>Under Environment Protection Licence 1728 conditions, as set by the NSW Environment Protection Authority, the 3DGM limits are allowed to be exceeded during wet weather. Wet weather on 5-10 October resulted in the plant operating under Environment Protection Licence wet weather requirements.

# Cronulla Water Resource Recovery Facility

## September Pollution Monitoring Summary



### EPL 1728

Summary period: 01-09-2022 to 30-09-2022

Date obtained: 10-10-2022

Date published: 21-10-2022

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

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

EPA Point 3 Site code CR0003		Point description: Inlet to the UV chamber			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
biochemical oxygen demand	mg/L	monthly	40	9	yes
carbonaceous biochemical oxygen demand	mg/L	monthly	40	<2	yes
oil and grease	mg/L	monthly	15	<5	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 3 Site code CR0003		Point description: Inlet to the UV chamber				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	18
biochemical oxygen demand	mg/L	every 6 days	5	3	6.4	9
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2
chlorpyrifos	ug/L	monthly	1	-	-	<0.05
copper	ug/L	monthly	1	-	-	3.6
cyanide	ug/L	monthly	1	-	-	<5
diazinon	ug/L	monthly	1	-	-	<0.1
nitrogen (ammonia)	mg/L	monthly	1	-	-	25
nonylphenol ethoxylate	ug/L	monthly	1	-	-	<5
oil and grease	mg/L	every 6 days	5	<5	<5	<5
total suspended solids	mg/L	every 6 days	5	<2	<2	2
zinc	ug/L	monthly	1	-	-	17

  

EPA Point 17 Site code CR0017		Point description: Outlet of the UV chamber				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
faecal coliforms	CFU/100mL	every 6 days	5	<1	13	53
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100

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

Effluent quality monitoring results obtained from EPA Points 3 and 17 are used to indicate the quality of water discharged at EPA Point 1 (discharge to waters).

# Cronulla Water Resource Recovery Facility

## August Pollution Monitoring Summary



### EPL 1728

Summary period: 01-08-2022 to 31-08-2022

Date obtained: 08-09-2022

Date published: 14-09-2022

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

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

EPA Point 3 Site code CR0003		Point description: Inlet to the UV chamber			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
biochemical oxygen demand	mg/L	monthly	40	<2	yes
carbonaceous biochemical oxygen demand	mg/L	monthly	40	<2	yes
oil and grease	mg/L	monthly	15	<5	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 3 Site code CR0003		Point description: Inlet to the UV chamber				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	21
biochemical oxygen demand	mg/L	every 6 days	5	<2	3.2	8
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2
chlorpyrifos	ug/L	monthly	1	-	-	<0.05
copper	ug/L	monthly	1	-	-	4.3
cyanide	ug/L	monthly	1	-	-	<5
diazinon	ug/L	monthly	1	-	-	<0.1
nitrogen (ammonia)	mg/L	monthly	1	-	-	37.6
nonylphenol ethoxylate	ug/L	monthly	1	-	-	<5
oil and grease	mg/L	every 6 days	5	<5	<5	<5
total suspended solids	mg/L	every 6 days	5	<2	<2	<2
zinc	ug/L	monthly	1	-	-	16

EPA Point 17 Site code CR0017		Point description: Outlet of the UV chamber				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
faecal coliforms	CFU/100mL	every 6 days	6	<1	10	34
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	53.2

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

Effluent quality monitoring results obtained from EPA Points 3 and 17 are used to indicate the quality of water discharged at EPA Point 1 (discharge to waters).

# Cronulla Water Resource Recovery Facility

## July Pollution Monitoring Summary



### EPL 1728

Summary period: 01-07-2022 to 31-07-2022

Date obtained: 09-08-2022

Date published: 18-08-2022

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

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

EPA Point 3 Site code CR0003		Point description: Inlet to the UV chamber			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
biochemical oxygen demand	mg/L	monthly	40	9	yes
carbonaceous biochemical oxygen demand	mg/L	monthly	40	7	yes
oil and grease	mg/L	monthly	15	<5	yes
total suspended solids	mg/L	monthly	10	6	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 3 Site code CR0003		Point description: Inlet to the UV chamber				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	144
biochemical oxygen demand	mg/L	every 6 days	6	<2	7.5	21
carbonaceous biochemical oxygen demand	mg/L	every 6 days	6	<2	4	16
chlorpyrifos	ug/L	monthly	1	-	-	<0.05
copper	ug/L	monthly	1	-	-	11.2
cyanide	ug/L	monthly	1	-	-	<5
diazinon	ug/L	monthly	1	-	-	<0.1
nitrogen (ammonia)	mg/L	monthly	1	-	-	7.1
nonylphenol ethoxylate	ug/L	monthly	1	-	-	<5
oil and grease	mg/L	every 6 days	6	<5	<5	<5
total suspended solids	mg/L	every 6 days	6	<2	5	21
zinc	ug/L	monthly	1	-	-	29

EPA Point 17 Site code CR0017		Point description: Outlet of the UV chamber				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
faecal coliforms	CFU/100mL	every 6 days	5	2	14003	70,000
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	49.6

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

Effluent quality monitoring results obtained from EPA Points 3 and 17 are used to indicate the quality of water discharged at EPA Point 1 (discharge to waters).