

# Wollongong Wastewater Treatment Plant

## June Pollution Monitoring Summary



### EPL 218

Summary period: 01-06-2022 to 30-06-2022

Date obtained: 07-07-2022

Date published: 15-07-2022

**Licensee:** Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

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

EPA Point 5 Site code WO0005		Point description: At the inlet to the effluent pumping station				
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits	
total suspended solids	mg/L	monthly	50	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 5 Site code WO0005		Point description: At the inlet to the effluent pumping station				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	11
biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	7
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	5
copper	ug/L	monthly	1	-	-	4.5
diazinon	ug/L	monthly	1	-	-	<0.1
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
total suspended solids	mg/L	every 6 days	5	<2	<2	4

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

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

# Wollongong Wastewater Treatment Plant

## May Pollution Monitoring Summary



### EPL 218

Summary period: 01-05-2022 to 31-05-2022

Date obtained: 08-06-2022

Date published: 17-06-2022

**Licensee:** Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

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

EPA Point 5 Site code WO0005		Point description: At the inlet to the effluent pumping station				
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits	
total suspended solids	mg/L	monthly	50	<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 5 Site code WO0005		Point description: At the inlet to the effluent pumping station				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	9
biochemical oxygen demand	mg/L	every 6 days	5	<2	7.2	17
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	5	12
copper	ug/L	monthly	1	-	-	2.6
diazinon	ug/L	monthly	1	-	-	<0.1
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
total suspended solids	mg/L	every 6 days	5	<2	12	29

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

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

# Wollongong Wastewater Treatment Plant

## April Pollution Monitoring Summary



### EPL 218

Summary period: 01-04-2022 to 30-04-2022

Date obtained: 09-05-2022

Date published: 20-05-2022

**Licensee:** Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

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

EPA Point 5 Site code WO0005		Point description: At the inlet to the effluent pumping station				
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits	
total suspended solids	mg/L	monthly	50	25	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 5 Site code WO0005		Point description: At the inlet to the effluent pumping station				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	126
biochemical oxygen demand	mg/L	every 6 days	5	3	5.2	8
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	2	8
copper	ug/L	monthly	1	-	-	8.8
diazinon	ug/L	monthly	1	-	-	<0.1
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
total suspended solids	mg/L	every 6 days	5	3	10	19

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

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

# Wollongong Wastewater Treatment Plant

## March Pollution Monitoring Summary



### EPL 218

Summary period: 01-03-2022 to 31-03-2022

Date obtained: 08-04-2022

Date published: 21-04-2022

**Licensee:** Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

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

EPA Point 5 Site code WO0005		Point description: At the inlet to the effluent pumping station				
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits	
total suspended solids	mg/L	monthly	50	53	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.

<sup>1</sup> Under Environmental Licence 218 conditions, as set by the NSW Environment Protection Licence Authority, exceedance of the 3DGM concentration limit is permitted when a wet weather bypass is the sole cause of the exceedance. Wet weather in 1-10 March resulted in the plant operating under wet weather requirements.

**Table 2: Routine monitoring data**

EPA Point 5 Site code WO0005		Point description: At the inlet to the effluent pumping station				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	933
biochemical oxygen demand	mg/L	every 6 days	5	3	9	22
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	6	18
copper	ug/L	monthly	1	-	-	26.8
diazinon	ug/L	monthly	1	-	-	<0.1
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
total suspended solids	mg/L	every 6 days	5	3	20	52

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

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

# Wollongong Wastewater Treatment Plant

## February Pollution Monitoring Summary



### EPL 218

Summary period: 01-02-2022 to 28-02-2022

Date obtained: 12-03-2022

Date published: 24-03-2022

**Licensee:** Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

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

EPA Point 5 Site code WO0005		Point description: At the inlet to the effluent pumping station				
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits	
total suspended solids	mg/L	monthly	50	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 5 Site code WO0005		Point description: At the inlet to the effluent pumping station				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	10
biochemical oxygen demand	mg/L	every 6 days	5	3	7.6	22
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	4	20
copper	ug/L	monthly	1	-	-	3.2
diazinon	ug/L	monthly	1	-	-	<0.1
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
total suspended solids	mg/L	every 6 days	5	<2	9	37

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

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

# Wollongong Wastewater Treatment Plant

## January Pollution Monitoring Summary



### EPL 218

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

Date obtained: 08-02-2022

Date published: 11-02-2022

**Licensee:** Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

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

EPA Point 5 Site code WO0005		Point description: At the inlet to the effluent pumping station				
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits	
total suspended solids	mg/L	monthly	50	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 5 Site code WO0005		Point description: At the inlet to the effluent pumping station				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	101
biochemical oxygen demand	mg/L	every 6 days	5	<2	5.4	9
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	6
copper	ug/L	monthly	1	-	-	5.9
diazinon	ug/L	monthly	1	-	-	<0.1
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
total suspended solids	mg/L	every 6 days	5	<2	8	16

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

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

# Wollongong Wastewater Treatment Plant

## December Pollution Monitoring Summary



### EPL 218

Summary period: 01-12-2021 to 31-12-2021

Date obtained: 07-01-2022

Date published: 20-01-2022

**Licensee:** Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

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

EPA Point 5 Site code WO0005		Point description: At the inlet to the effluent pumping station				
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits	
total suspended solids	mg/L	monthly	50	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 5 Site code WO0005		Point description: At the inlet to the effluent pumping station				
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	4	5.2	9
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	2
copper	ug/L	monthly	1	-	-	3.9
diazinon	ug/L	monthly	1	-	-	<0.1
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
total suspended solids	mg/L	every 6 days	5	<2	<2	6

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

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

# Wollongong Wastewater Treatment Plant

## November Pollution Monitoring Summary



### EPL 218

Summary period: 01-11-2021 to 30-11-2021

Date obtained: 10-12-2021

Date published: 17-12-2021

**Licensee:** Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

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

EPA Point 5 Site code WO0005		Point description: At the inlet to the effluent pumping station				
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits	
total suspended solids	mg/L	monthly	50	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 5 Site code WO0005		Point description: At the inlet to the effluent pumping station				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	92
biochemical oxygen demand	mg/L	every 6 days	5	5	6.6	8
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	2	7
copper	ug/L	monthly	1	-	-	4.7
diazinon	ug/L	monthly	1	-	-	<0.1
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
total suspended solids	mg/L	every 6 days	5	2	10	28

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

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



# Wollongong Wastewater Treatment Plant

## October Pollution Monitoring Summary



### EPL 218

Summary period: 01-10-2021 to 31-10-2021

Date obtained: 08-11-2021

Date published: 12-11-2021

**Licensee:** Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

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

EPA Point 5 Site code WO0005		Point description: At the inlet to the effluent pumping station				
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits	
total suspended solids	mg/L	monthly	50	<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 5 Site code WO0005		Point description: At the inlet to the effluent pumping station				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	12
biochemical oxygen demand	mg/L	every 6 days	6	4	5.17	7
carbonaceous biochemical oxygen demand	mg/L	every 6 days	6	<2	<2	5
copper	ug/L	monthly	1	-	-	3.5
diazinon	ug/L	monthly	1	-	-	<0.1
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
total suspended solids	mg/L	every 6 days	6	<2	2	8

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

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

# Wollongong Wastewater Treatment Plant

## September Pollution Monitoring Summary



### EPL 218

Summary period: 01-09-2021 to 30-09-2021

Date obtained: 05-10-2021

Date published: 13-10-2021

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

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

EPA Point 5 Site code WO0005		Point description: At the inlet to the effluent pumping station				
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits	
total suspended solids	mg/L	monthly	50	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 5 Site code WO0005		Point description: At the inlet to the effluent pumping station				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	14
biochemical oxygen demand	mg/L	every 6 days	5	<2	4.4	7
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2
copper	ug/L	monthly	1	-	-	3.4
diazinon	ug/L	monthly	1	-	-	<0.1
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
total suspended solids	mg/L	every 6 days	5	<2	<2	2

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

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

# Wollongong Wastewater Treatment Plant

## August Pollution Monitoring Summary



### EPL 218

Summary period: 01-08-2021 to 31-08-2021

Date obtained: 06-09-2021

Date published: 13-09-2021

**Licensee:** Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

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

EPA Point 5 Site code WO0005		Point description: At the inlet to the effluent pumping station				
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits	
total suspended solids	mg/L	monthly	50	<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 5 Site code WO0005		Point description: At the inlet to the effluent pumping station				
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	5	5.8	7
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	3
copper	ug/L	monthly	1	-	-	2.6
diazinon	ug/L	monthly	1	-	-	<0.1
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
total suspended solids	mg/L	every 6 days	5	<2	<2	4

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

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

# Wollongong Wastewater Treatment Plant

## July Pollution Monitoring Summary



### EPL 218

Summary period: 01-07-2021 to 31-07-2021

Date obtained: 04-08-2021

Date published: 18-08-2021

**Licensee:** Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

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

EPA Point 5 Site code WO0005		Point description: At the inlet to the effluent pumping station				
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits	
total suspended solids	mg/L	monthly	50	<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 5 Site code WO0005		Point description: At the inlet to the effluent pumping station				
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	4	5.2	8
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	4
copper	ug/L	monthly	1	-	-	2.4
diazinon	ug/L	monthly	1	-	-	<0.1
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
total suspended solids	mg/L	every 6 days	5	<2	<2	<2

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

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