

Warriewood Wastewater Treatment Plant

June Pollution Monitoring Summary



EPL 1784

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

Date obtained: 08-07-2020

Date published: 14-07-2020

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 5 Site code WW0005		Point description: Outfall pipeline on the plant's eastern boundary				
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits	
total suspended solids	mg/L	monthly	80	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 WW0005		Point description: Outfall pipeline on the plant's eastern boundary				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	12
copper	ug/L	monthly	1	-	-	3.4
cyanide	ug/L	monthly	1	-	-	9
faecal coliforms	CFU/100mL	every 6 days	5	<1	17	57
nonylphenol ethoxylate	ug/L	monthly	1	-	-	<5
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	30.4
total suspended solids	mg/L	every 6 days	5	3	4	5

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

Warriewood Wastewater Treatment Plant

May Pollution Monitoring Summary



EPL 1784

Summary period: 01-05-2020 to 31-05-2020

Date obtained: 05-06-2020

Date published: 17-06-2020

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 5 Site code WW0005		Point description: Outfall pipeline on the plant's eastern boundary			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
total suspended solids	mg/L	monthly	80	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 WW0005		Point description: Outfall pipeline on the plant's eastern boundary				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	13
copper	ug/L	monthly	1	-	-	2.8
cyanide	ug/L	monthly	1	-	-	5
faecal coliforms	CFU/100mL	every 6 days	5	1	409	2,000
nonylphenol ethoxylate	ug/L	monthly	1	-	-	<5
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	28.2
total suspended solids	mg/L	every 6 days	5	3	8	25

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

Warriewood Wastewater Treatment Plant

April Pollution Monitoring Summary



EPL 1784

Summary period: 01-04-2020 to 30-04-2020

Date obtained: 04-05-2020

Date published: 15-05-2020

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 5 Site code WW0005		Point description: Outfall pipeline on the plant's eastern boundary				
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits	
total suspended solids	mg/L	monthly	80	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 5 Site code WW0005		Point description: Outfall pipeline on the plant's eastern boundary				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	31
copper	ug/L	monthly	1	-	-	5.7
cyanide	ug/L	monthly	1	-	-	<5
faecal coliforms	CFU/100mL	every 6 days	5	21	1281	5,800
nonylphenol ethoxylate	ug/L	monthly	1	-	-	<5
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	22.4
total suspended solids	mg/L	every 6 days	5	3	6	11

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

Warriewood Wastewater Treatment Plant

March Pollution Monitoring Summary



EPL 1784

Summary period: 01-03-2020 to 31-03-2020

Date obtained: 03-04-2020

Date published: 15-04-2020

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 5 Site code WW0005		Point description: Outfall pipeline on the plant's eastern boundary			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
total suspended solids	mg/L	monthly	80	7	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 WW0005		Point description: Outfall pipeline on the plant's eastern boundary				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	24
copper	ug/L	monthly	1	-	-	3.1
cyanide	ug/L	monthly	1	-	-	6
faecal coliforms	CFU/100mL	every 6 days	5	35	204	790
nonylphenol ethoxylate	ug/L	monthly	1	-	-	<5
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	45.5
total suspended solids	mg/L	every 6 days	5	5	8	12

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

Warriewood Wastewater Treatment Plant

February Pollution Monitoring Summary



EPL 1784

Summary period: 01-02-2020 to 29-02-2020

Date obtained: 18-03-2020

Date published: 27-03-2020

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 5 Site code WW0005		Point description: Outfall pipeline on the plant's eastern boundary				
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits	
total suspended solids	mg/L	monthly	80	12	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 WW0005		Point description: Outfall pipeline on the plant's eastern boundary				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	21
copper	ug/L	monthly	1	-	-	5.1
cyanide	ug/L	monthly	1	-	-	<5
faecal coliforms	CFU/100mL	every 6 days	5	22	607057	3,000,000
nonylphenol ethoxylate	ug/L	monthly	1	-	-	<5
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	24.1
total suspended solids	mg/L	every 6 days	5	4	25	85

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

Warriewood Wastewater Treatment Plant

January Pollution Monitoring Summary



EPL 1784

Summary period: 01-01-2020 to 31-01-2020

Date obtained: 05-02-2020

Date published: 14-02-2020

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 5 Site code WW0005		Point description: Outfall pipeline on the plant's eastern boundary				
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits	
total suspended solids	mg/L	monthly	80	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 5 Site code WW0005		Point description: Outfall pipeline on the plant's eastern boundary				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	17
copper	ug/L	monthly	1	-	-	4
cyanide	ug/L	monthly	1	-	-	<5
faecal coliforms	CFU/100mL	every 6 days	5	22	836	3,200
nonylphenol ethoxylate	ug/L	monthly	1	-	-	<5
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	27.3
total suspended solids	mg/L	every 6 days	5	5	8	10

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

Warriewood Wastewater Treatment Plant

December Pollution Monitoring Summary



EPL 1784

Summary period: 01-12-2019 to 31-12-2019

Date obtained: 31-12-2019

Date published: 10-01-2020

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 5 Site code WW0005		Point description: Outfall pipeline on the plant's eastern boundary				
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits	
total suspended solids	mg/L	monthly	80	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 5 Site code WW0005		Point description: Outfall pipeline on the plant's eastern boundary				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	30
copper	ug/L	monthly	1	-	-	5
cyanide	ug/L	monthly	1	-	-	<5
faecal coliforms	CFU/100mL	every 6 days	5	21	15202	56,000
nonylphenol ethoxylate	ug/L	monthly	1	-	-	<5
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	11.8
total suspended solids	mg/L	every 6 days	5	5	6	7

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

Warriewood Wastewater Treatment Plant

November Pollution Monitoring Summary



EPL 1784

Summary period: 01-11-2019 to 30-11-2019

Date obtained: 05-12-2019

Date published: 12-12-2019

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 5 Site code WW0005		Point description: Outfall pipeline on the plant's eastern boundary				
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits	
total suspended solids	mg/L	monthly	80	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 5 Site code WW0005		Point description: Outfall pipeline on the plant's eastern boundary				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	19
copper	ug/L	monthly	1	-	-	3.2
cyanide	ug/L	monthly	1	-	-	<5
faecal coliforms	CFU/100mL	every 6 days	5	1,200	38240	100,000
nonylphenol ethoxylate	ug/L	monthly	1	-	-	13
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	24.4
total suspended solids	mg/L	every 6 days	5	5	7	10

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

Warriewood Wastewater Treatment Plant

October Pollution Monitoring Summary



EPL 1784

Summary period: 01-10-2019 to 31-10-2019

Date obtained: 12-11-2019

Date published: 22-11-2019

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 5 Site code WW0005		Point description: Outfall pipeline on the plant's eastern boundary				
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits	
total suspended solids	mg/L	monthly	80	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 WW0005		Point description: Outfall pipeline on the plant's eastern boundary				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	9
copper	ug/L	monthly	1	-	-	2.2
cyanide	ug/L	monthly	1	-	-	<5
faecal coliforms	CFU/100mL	every 6 days	5	39	2170	9,400
nonylphenol ethoxylate	ug/L	monthly	1	-	-	<5
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	42.7
total suspended solids	mg/L	every 6 days	5	4	6	9

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

Warriewood Wastewater Treatment Plant

September Pollution Monitoring Summary



EPL 1784

Summary period: 01-09-2019 to 30-09-2019

Date obtained: 09-10-2019

Date published: 15-10-2019

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 5 Site code WW0005		Point description: Outfall pipeline on the plant's eastern boundary				
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits	
total suspended solids	mg/L	monthly	80	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 5 Site code WW0005		Point description: Outfall pipeline on the plant's eastern boundary				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	19
copper	ug/L	monthly	1	-	-	4
cyanide	ug/L	monthly	1	-	-	<5
faecal coliforms	CFU/100mL	every 6 days	5	5	180021	900,000
nonylphenol ethoxylate	ug/L	monthly	1	-	-	<5
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	24.3
total suspended solids	mg/L	every 6 days	5	4	8	16

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

Warriewood Wastewater Treatment Plant

August Pollution Monitoring Summary



EPL 1784

Summary period: 01-08-2019 to 31-08-2019

Date obtained: 06-09-2019

Date published: 16-09-2019

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 5 Site code WW0005		Point description: Outfall pipeline on the plant's eastern boundary				
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits	
total suspended solids	mg/L	monthly	80	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 5 Site code WW0005		Point description: Outfall pipeline on the plant's eastern boundary				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	13
copper	ug/L	monthly	1	-	-	3.5
cyanide	ug/L	monthly	1	-	-	<5
faecal coliforms	CFU/100mL	every 6 days	6	17	609	3,200
nonylphenol ethoxylate	ug/L	monthly	1	-	-	<5
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	42.2
total suspended solids	mg/L	every 6 days	5	6	18	62

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

Warriewood Wastewater Treatment Plant

July Pollution Monitoring Summary



EPL 1784

Summary period: 01-07-2019 to 31-07-2019

Date obtained: 07-08-2019

Date published: 17-08-2019

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 5 Site code WW0005		Point description: Outfall pipeline on the plant's eastern boundary				
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits	
total suspended solids	mg/L	monthly	80	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 5 Site code WW0005		Point description: Outfall pipeline on the plant's eastern boundary				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	15
copper	ug/L	monthly	1	-	-	3.1
cyanide	ug/L	monthly	1	-	-	<5
faecal coliforms	CFU/100mL	every 6 days	5	6	10	21
nonylphenol ethoxylate	ug/L	monthly	1	-	-	<5
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	31.2
total suspended solids	mg/L	every 6 days	6	5	8	13

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