

North Head Wastewater Treatment Plant

June Pollution Monitoring Summary



EPL 378

Summary period: 01-06-2018 to 30-06-2018

Date obtained: 05-07-2018

Date published: 11-07-2018

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 8 Site code NH0008		Point description: In effluent channel downstream of the dropshaft			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
oil and grease	mg/L	monthly	85	33	yes
total suspended solids	mg/L	monthly	290	156	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 8 Site code NH0008		Point description: In effluent channel downstream of the dropshaft				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	788
chlorpyrifos	ug/L	monthly	1	-	-	<0.05
copper	ug/L	monthly	1	-	-	74.7
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	181
nonylphenol ethoxylate	ug/L	monthly	1	-	-	61
oil and grease	mg/L	every 6 days	5	26	47	71
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	0.7
total suspended solids	mg/L	every 6 days	5	150	216	380

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

North Head Wastewater Treatment Plant

May Pollution Monitoring Summary



EPL 378

Summary period: 01-05-2018 to 31-05-2018

Date obtained: 06-06-2018

Date published: 13-06-2018

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 8 Site code NH0008		Point description: In effluent channel downstream of the dropshaft			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
oil and grease	mg/L	monthly	85	37	yes
total suspended solids	mg/L	monthly	290	179	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 8 Site code NH0008		Point description: In effluent channel downstream of the dropshaft				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	706
chlorpyrifos	ug/L	monthly	1	-	-	<0.05
copper	ug/L	monthly	1	-	-	136
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	115
nonylphenol ethoxylate	ug/L	monthly	1	-	-	39
oil and grease	mg/L	every 6 days	6	30	44	60
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	8
total suspended solids	mg/L	every 6 days	6	150	205	270

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

North Head Wastewater Treatment Plant

April Pollution Monitoring Summary



EPL 378

Summary period: 01-04-2018 to 30-04-2018

Date obtained: 04-05-2018

Date published: 11-05-2018

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 8 Site code NH0008		Point description: In effluent channel downstream of the dropshaft			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
oil and grease	mg/L	monthly	85	47	yes
total suspended solids	mg/L	monthly	290	199	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 8 Site code NH0008		Point description: In effluent channel downstream of the dropshaft				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	788
chlorpyrifos	ug/L	monthly	1	-	-	<0.05
copper	ug/L	monthly	1	-	-	134
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	348
nonylphenol ethoxylate	ug/L	monthly	1	-	-	81
oil and grease	mg/L	every 6 days	5	40	44	52
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	3.3
total suspended solids	mg/L	every 6 days	5	180	204	230

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

North Head Wastewater Treatment Plant

March Pollution Monitoring Summary



EPL 378

Summary period: 01-03-2018 to 31-03-2018

Date obtained: 03-04-2018

Date published: 13-04-2018

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 8 Site code NH0008		Point description: In effluent channel downstream of the dropshaft			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
oil and grease	mg/L	monthly	85	37	yes
total suspended solids	mg/L	monthly	290	203	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 8 Site code NH0008		Point description: In effluent channel downstream of the dropshaft				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	526
chlorpyrifos	ug/L	monthly	1	-	-	<0.05
copper	ug/L	monthly	1	-	-	121
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	98
nonylphenol ethoxylate	ug/L	monthly	1	-	-	79
oil and grease	mg/L	every 6 days	5	20	38	48
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	3.6
total suspended solids	mg/L	every 6 days	5	140	190	230

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

North Head Wastewater Treatment Plant

February Pollution Monitoring Summary



EPL 378

Summary period: 01-02-2018 to 28-02-2018

Date obtained: 07-03-2018

Date published: 15-03-2018

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 8 Site code NH0008		Point description: In effluent channel downstream of the dropshaft			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
oil and grease	mg/L	monthly	85	42	yes
total suspended solids	mg/L	monthly	290	229	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 8 Site code NH0008		Point description: In effluent channel downstream of the dropshaft				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	633
chlorpyrifos	ug/L	monthly	1	-	-	<0.05
copper	ug/L	monthly	1	-	-	142
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	77
nonylphenol ethoxylate	ug/L	monthly	1	-	-	75
oil and grease	mg/L	every 6 days	4	37	48	55
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	1.8
total suspended solids	mg/L	every 6 days	4	170	220	260

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

North Head Wastewater Treatment Plant

January Pollution Monitoring Summary



EPL 378

Summary period: 01-01-2018 to 31-01-2018

Date obtained: 19-02-2018

Date published: 23-02-2018

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 8 Site code NH0008		Point description: In effluent channel downstream of the dropshaft			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
oil and grease	mg/L	monthly	85	39	yes
total suspended solids	mg/L	monthly	290	207	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 8 Site code NH0008		Point description: In effluent channel downstream of the dropshaft				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	716
chlorpyrifos	ug/L	monthly	1	-	-	<0.05
copper	ug/L	monthly	1	-	-	115
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	142
nonylphenol ethoxylate	ug/L	monthly	1	-	-	42
oil and grease	mg/L	every 6 days	6	37	44	49
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	3.5
total suspended solids	mg/L	every 6 days	6	180	213	240

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

North Head Wastewater Treatment Plant

December Pollution Monitoring Summary



EPL 378

Summary period: 01-12-2017 to 31-12-2017

Date obtained: 23-01-2018

Date published: 29-01-2018

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 8 Site code NH0008		Point description: In effluent channel downstream of the dropshaft			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
oil and grease	mg/L	monthly	85	38	yes
total suspended solids	mg/L	monthly	290	190	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 8 Site code NH0008		Point description: In effluent channel downstream of the dropshaft				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	616
chlorpyrifos	ug/L	monthly	1	-	-	<0.05
copper	ug/L	monthly	1	-	-	107
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
nonylphenol ethoxylate	ug/L	monthly	1	-	-	96
oil and grease	mg/L	every 6 days	5	32	42	51
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	0.8
total suspended solids	mg/L	every 6 days	5	180	210	240

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

North Head Wastewater Treatment Plant

November Pollution Monitoring Summary



EPL 378

Summary period: 01-11-2017 to 30-11-2017

Date obtained: 14-12-2017

Date published: 21-12-2017

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 8 Site code NH0008		Point description: In effluent channel downstream of the dropshaft			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
oil and grease	mg/L	monthly	85	44	yes
total suspended solids	mg/L	monthly	290	201	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 8 Site code NH0008		Point description: In effluent channel downstream of the dropshaft				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	754
chlorpyrifos	ug/L	monthly	1	-	-	<0.05
copper	ug/L	monthly	1	-	-	137
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
nonylphenol ethoxylate	ug/L	monthly	1	-	-	99
oil and grease	mg/L	every 6 days	5	36	43	48
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	3.6
total suspended solids	mg/L	every 6 days	5	160	182	220

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

North Head Wastewater Treatment Plant

October Pollution Monitoring Summary



EPL 378

Summary period: 01-10-2017 to 31-10-2017

Date obtained: 13-11-2017

Date published: 22-11-2017

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 8 Site code NH0008		Point description: In effluent channel downstream of the dropshaft			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
oil and grease	mg/L	monthly	85	48	yes
total suspended solids	mg/L	monthly	290	183	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 8 Site code NH0008		Point description: In effluent channel downstream of the dropshaft				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	563
chlorpyrifos	ug/L	monthly	1	-	-	<0.05
copper	ug/L	monthly	1	-	-	136
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
nonylphenol ethoxylate	ug/L	monthly	1	-	-	78
oil and grease	mg/L	every 6 days	5	32	43	51
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	2.3
total suspended solids	mg/L	every 6 days	5	110	170	190

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

North Head Wastewater Treatment Plant

September Pollution Monitoring Summary



EPL 378

Summary period: 01-09-2017 to 30-09-2017

Date obtained: 06-10-2017

Date published: 17-10-2017

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 8 Site code NH0008		Point description: In effluent channel downstream of the dropshaft			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
oil and grease	mg/L	monthly	85	54	yes
total suspended solids	mg/L	monthly	290	189	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 8 Site code NH0008		Point description: In effluent channel downstream of the dropshaft				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	690
chlorpyrifos	ug/L	monthly	1	-	-	<0.05
copper	ug/L	monthly	1	-	-	138
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	80
nonylphenol ethoxylate	ug/L	monthly	1	-	-	112
oil and grease	mg/L	every 6 days	5	44	50	59
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	11.5
total suspended solids	mg/L	every 6 days	5	170	196	220

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

North Head Wastewater Treatment Plant

August Pollution Monitoring Summary



EPL 378

Summary period: 01-08-2017 to 31-08-2017

Date obtained: 18-09-2017

Date published: 21-09-2017

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 8 Site code NH0008		Point description: In effluent channel downstream of the dropshaft			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
oil and grease	mg/L	monthly	85	43	yes
total suspended solids	mg/L	monthly	290	180	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 8 Site code NH0008		Point description: In effluent channel downstream of the dropshaft				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	519
chlorpyrifos	ug/L	monthly	1	-	-	<0.05
copper	ug/L	monthly	1	-	-	128
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
nonylphenol ethoxylate	ug/L	monthly	1	-	-	83
oil and grease	mg/L	every 6 days	5	23	37	46
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	3.7
total suspended solids	mg/L	every 6 days	5	150	184	240

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

North Head Wastewater Treatment Plant

July Pollution Monitoring Summary



EPL 378

Summary period: 01-07-2017 to 31-07-2017

Date obtained: 17-08-2017

Date published: 23-08-2017

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 8 Site code NH0008		Point description: In effluent channel downstream of the dropshaft			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
oil and grease	mg/L	monthly	85	49	yes
total suspended solids	mg/L	monthly	290	170	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 8 Site code NH0008		Point description: In effluent channel downstream of the dropshaft				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	480
chlorpyrifos	ug/L	monthly	1	-	-	<0.05
copper	ug/L	monthly	1	-	-	104
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
nonylphenol ethoxylate	ug/L	monthly	1	-	-	186
oil and grease	mg/L	every 6 days	5	45	50	57
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	2.6
total suspended solids	mg/L	every 6 days	5	160	202	250

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