

North Head Wastewater Treatment Plant

June Pollution Monitoring Summary



EPL 378

Summary period: 01-06-2019 to 30-06-2019

Date obtained: 11-07-2019

Date published: 17-07-2019

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	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	-	-	552
chlorpyrifos	ug/L	monthly	1	-	-	<0.05
copper	ug/L	monthly	1	-	-	138
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	200
oil and grease	mg/L	every 6 days	5	21	43	62
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	5
total suspended solids	mg/L	every 6 days	5	130	182	220

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: 01-05-2019 to 31-05-2019

Date obtained: 03-06-2019

Date published: 12-06-2019

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	45	yes
total suspended solids	mg/L	monthly	290	196	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	-	-	593
chlorpyrifos	ug/L	monthly	1	-	-	<0.05
copper	ug/L	monthly	1	-	-	147
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	90
oil and grease	mg/L	every 6 days	5	52	56	65
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	2
total suspended solids	mg/L	every 6 days	5	160	220	330

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: 01-04-2019 to 30-04-2019

Date obtained: 06-05-2019

Date published: 13-05-2019

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	245	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	-	-	1,020
chlorpyrifos	ug/L	monthly	1	-	-	<0.05
copper	ug/L	monthly	1	-	-	148
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	36
nonylphenol ethoxylate	ug/L	monthly	1	-	-	45
oil and grease	mg/L	every 6 days	5	32	44	49
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	4.8
total suspended solids	mg/L	every 6 days	5	190	202	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: 01-03-2019 to 31-03-2019

Date obtained: 09-04-2019

Date published: 12-04-2019

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	46	yes
total suspended solids	mg/L	monthly	290	245	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	-	-	520
chlorpyrifos	ug/L	monthly	1	-	-	<0.05
copper	ug/L	monthly	1	-	-	138
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	52
nonylphenol ethoxylate	ug/L	monthly	1	-	-	113
oil and grease	mg/L	every 6 days	5	28	40	55
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	5.9
total suspended solids	mg/L	every 6 days	5	160	242	300

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: 01-02-2019 to 28-02-2019

Date obtained: 08-03-2019

Date published: 15-03-2019

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	40	yes
total suspended solids	mg/L	monthly	290	176	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	-	-	623
chlorpyrifos	ug/L	monthly	1	-	-	<0.05
copper	ug/L	monthly	1	-	-	164
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
nonylphenol ethoxylate	ug/L	monthly	1	-	-	92
oil and grease	mg/L	every 6 days	5	24	39	45
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	7.3
total suspended solids	mg/L	every 6 days	5	170	182	200

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: 01-01-2019 to 31-01-2019

Date obtained: 13-02-2019

Date published: 22-02-2019

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	40	yes
total suspended solids	mg/L	monthly	290	186	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	-	-	453
chlorpyrifos	ug/L	monthly	1	-	-	<0.05
copper	ug/L	monthly	1	-	-	130
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
nonylphenol ethoxylate	ug/L	monthly	1	-	-	11
oil and grease	mg/L	every 6 days	5	42	51	78
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	4.8
total suspended solids	mg/L	every 6 days	5	180	224	350

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: 01-12-2018 to 31-12-2018

Date obtained: 04-01-2019

Date published: 11-01-2019

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	57	yes
total suspended solids	mg/L	monthly	290	224	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	-	-	256
chlorpyrifos	ug/L	monthly	1	-	-	<0.05
copper	ug/L	monthly	1	-	-	88.9
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	40
nonylphenol ethoxylate	ug/L	monthly	1	-	-	90
oil and grease	mg/L	every 6 days	5	19	43	57
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	8
total suspended solids	mg/L	every 6 days	5	130	178	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: 01-11-2018 to 30-11-2018

Date obtained: 13-12-2018

Date published: 21-12-2018

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	44	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	-	-	531
chlorpyrifos	ug/L	monthly	1	-	-	<0.05
copper	ug/L	monthly	1	-	-	108
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
nonylphenol ethoxylate	ug/L	monthly	1	-	-	110
oil and grease	mg/L	every 6 days	5	37	48	53
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	>20
total suspended solids	mg/L	every 6 days	5	170	216	270

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: 01-10-2018 to 31-10-2018

Date obtained: 12-11-2018

Date published: 23-11-2018

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	32	yes
total suspended solids	mg/L	monthly	290	168	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	-	-	1,840
chlorine (total residual)	mg/L	monthly	1	-	-	<0.04
chlorpyrifos	ug/L	monthly	1	-	-	<0.05
copper	ug/L	monthly	1	-	-	133
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
nonylphenol ethoxylate	ug/L	monthly	1	-	-	114
oil and grease	mg/L	every 6 days	5	23	44	55
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	12.5
total suspended solids	mg/L	every 6 days	5	140	246	420

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: 01-09-2018 to 30-09-2018

Date obtained: 15-10-2018

Date published: 19-10-2018

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	50	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	-	-	719
chlorpyrifos	ug/L	monthly	1	-	-	<0.05
copper	ug/L	monthly	1	-	-	143
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	178
nonylphenol ethoxylate	ug/L	monthly	1	-	-	63
oil and grease	mg/L	every 6 days	5	44	50	58
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	4.4
total suspended solids	mg/L	every 6 days	5	180	212	250

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: 01-08-2018 to 31-08-2018

Date obtained: 11-09-2018

Date published: 14-09-2018

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	53	yes
total suspended solids	mg/L	monthly	290	212	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	-	-	967
chlorpyrifos	ug/L	monthly	1	-	-	<0.05
copper	ug/L	monthly	1	-	-	134
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
nonylphenol ethoxylate	ug/L	monthly	1	-	-	106
oil and grease	mg/L	every 6 days	5	47	55	62
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	3.1
total suspended solids	mg/L	every 6 days	5	200	220	260

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: 01-07-2018 to 31-07-2018

Date obtained: 09-08-2018

Date published: 14-08-2018

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	50	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	-	-	1,340
chlorpyrifos	ug/L	monthly	1	-	-	<0.05
copper	ug/L	monthly	1	-	-	147
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	70
nonylphenol ethoxylate	ug/L	monthly	1	-	-	142
oil and grease	mg/L	every 6 days	5	42	47	51
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	1.2
total suspended solids	mg/L	every 6 days	5	180	194	200

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