# North Head Wastewater Treatment Plant June Pollution Monitoring Summary



## EPL 378<sup>-</sup>

Summary period: 01-06-2020 to 30-06-2020Á Date obtained: 08-07-2020Á Date published: 1I -07-2020Á 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 dropsh						
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	188	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	-	-	565
chlorpyrifos	ug/L	monthly	1	-	-	<0.05
copper	ug/L	monthly	1	-	-	119
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
nonylphenol ethoxylate	ug/L	monthly	1	-	-	18
oil and grease	mg/L	every 6 days	5	37	41	45
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	1.4
total suspended solids	mg/L	every 6 days	5	140	164	180

# North Head Wastewater Treatment Plant May Pollution Monitoring Summary



### EPL 378

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 8 Site code NH0008	Point descrip	Point description: In effluent channel downstream of the dropsh						
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	153	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	-	-	488
chlorpyrifos	ug/L	monthly	1	-	-	<0.05
copper	ug/L	monthly	1	-	-	122
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	30
nonylphenol ethoxylate	ug/L	monthly	1	-	-	40
oil and grease	mg/L	every 6 days	5	23	40	47
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	3.7
total suspended solids	mg/L	every 6 days	5	130	166	200

# North Head Wastewater Treatment Plant April Pollution Monitoring Summary



## EPL 378

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 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	26	yes	
total suspended solids	mg/L	monthly	290	169	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 8 Point description: In effluent channel downstream of the drop   code NH0008 Point description: In effluent channel downstream of the drop					shaft
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	913
chlorpyrifos	ug/L	monthly	1	-	-	<0.05
copper	ug/L	monthly	1	-	-	106
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
nonylphenol ethoxylate	ug/L	monthly	1	-	-	13
oil and grease	mg/L	every 6 days	5	30	39	47
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	1.1
total suspended solids	mg/L	every 6 days	5	160	172	180

# North Head Wastewater Treatment Plant March Pollution Monitoring Summary



### EPL 378

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 8 Site code NH0008	Point descrip	Point description: In effluent channel downstream of the dropsh					
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	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

A Point 8 e code NH0008 Point description: In effluent channel downstream of the drop						shaft
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	576
chlorpyrifos	ug/L	monthly	1	-	-	<0.05
copper	ug/L	monthly	1	-	-	155
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	60
nonylphenol ethoxylate	ug/L	monthly	1	-	-	79
oil and grease	mg/L	every 6 days	5	25	34	44
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	0.6
total suspended solids	mg/L	every 6 days	5	140	166	210

# North Head Wastewater Treatment Plant February Pollution Monitoring Summary



## EPL 378

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 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	200	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 downstr					stream 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	-	-	144		
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	40		
nonylphenol ethoxylate	ug/L	monthly	1	-	-	46		
oil and grease	mg/L	every 6 days	5	11	31	49		
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	1.3		
total suspended solids	mg/L	every 6 days	5	81	154	220		

# North Head Wastewater Treatment Plant January Pollution Monitoring Summary



## EPL 378

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 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	220	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	-	-	667
chlorpyrifos	ug/L	monthly	1	-	-	0.06
copper	ug/L	monthly	1	-	-	201
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	130
nonylphenol ethoxylate	ug/L	monthly	1	-	-	621
oil and grease	mg/L	every 6 days	5	38	45	52
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	4.6
total suspended solids	mg/L	every 6 days	5	170	192	220

# North Head Wastewater Treatment Plant December Pollution Monitoring Summary



### EPL 378

Summary period: 01-12-2019 to 31-12-2019 Date obtained: 02-01-2020 Date published: 10-01-2020 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

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

EPA Point 8 Site code NH0008	Point descrip	Point description: In effluent channel downstream of the dropsha					
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits		
oil and grease	mg/L	monthly	85	52	yes		
total suspended solids	mg/L	monthly	290	202	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 descript	t 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	-	-	678		
chlorpyrifos	ug/L	monthly	1	-	-	<0.05		
copper	ug/L	monthly	1	-	-	141		
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	180		
nonylphenol ethoxylate	ug/L	monthly	1	-	-	135		
oil and grease	mg/L	every 6 days	5	51	55	62		
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	4		
total suspended solids	mg/L	every 6 days	5	170	206	230		

# North Head Wastewater Treatment Plant November Pollution Monitoring Summary



### EPL 378

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 8 Site code NH0008	Point description: In effluent channel downstream of the drops					
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	169	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 descript	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	-	-	117		
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30		
nonylphenol ethoxylate	ug/L	monthly	1	-	-	96		
oil and grease	mg/L	every 6 days	5	42	47	51		
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	0.9		
total suspended solids	mg/L	every 6 days	5	160	188	210		

# North Head Wastewater Treatment Plant October Pollution Monitoring Summary



## EPL 378

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 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	161	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 drops						haft
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	609
chlorpyrifos	ug/L	monthly	1	-	-	<0.05
copper	ug/L	monthly	1	-	-	126
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	60
nonylphenol ethoxylate	ug/L	monthly	1	-	-	106
oil and grease	mg/L	every 6 days	5	48	51	55
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	8
total suspended solids	mg/L	every 6 days	5	170	202	230

# North Head Wastewater Treatment Plant September Pollution Monitoring Summary



### EPL 378

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 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	51	yes	
total suspended solids	mg/L	monthly	290	193	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 d						opshaft		
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result		
aluminium	ug/L	monthly	1	-	-	536		
chlorpyrifos	ug/L	monthly	1	-	-	<0.05		
copper	ug/L	monthly	1	-	-	105		
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30		
nonylphenol ethoxylate	ug/L	monthly	1	-	-	144		
oil and grease	mg/L	every 6 days	5	38	44	50		
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	3.1		
total suspended solids	mg/L	every 6 days	5	140	176	190		

# North Head Wastewater Treatment Plant August Pollution Monitoring Summary



## EPL 378

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 8 Site code NH0008	Point descrip	Point description: In effluent channel downstream of the dropsha						
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits			
oil and grease	mg/L	monthly	85	52	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	-	-	573	
chlorpyrifos	ug/L	monthly	1	-	-	<0.05	
copper	ug/L	monthly	1	-	-	143	
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	160	
nonylphenol ethoxylate	ug/L	monthly	1	-	-	144	
oil and grease	mg/L	every 6 days	5	29	48	55	
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	1.2	
total suspended solids	mg/L	every 6 days	5	150	180	230	

# North Head Wastewater Treatment Plant July Pollution Monitoring Summary



### EPL 378

Summary period: 01-07-2019 to 31-07-2019 Date obtained: 08-08-2019 Date published: 17-08-2019 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

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

EPA Point 8 Site code NH0008	Point descrip	Point description: In effluent channel downstream of the dropsha					
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	169	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 descript	iption: 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	-	-	494	
chlorpyrifos	ug/L	monthly	1	-	-	<0.05	
copper	ug/L	monthly	1	-	-	102	
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30	
nonylphenol ethoxylate	ug/L	monthly	1	-	-	<5	
oil and grease	mg/L	every 6 days	6	33	45	55	
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	6.7	
total suspended solids	mg/L	every 6 days	6	160	183	200	