North Head Water Resource Recovery Facility June Pollution Monitoring Summary



Summary period: 01-06-2024 to 30-06-2024

Date obtained: 02-07-2024

Date published: 15-07-2024

Sydney **WAT ₹R**

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 sampling measure frequency 3DGM limit 3DGM Actual within limits						
oil and grease	mg/L	monthly	85	14	yes		
total suspended solids	mg/L	monthly	290	126	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	-	-	845	
chlorpyrifos	ug/L	monthly	1	-	-	<0.05	
copper	ug/L	monthly	1	_	_	40.9	
hydrogen sulphide (unionised)	ug/L	monthly	1	_	_	<30	
nonylphenol ethoxylate	ug/L	monthly	1	_	_	15	
oil and grease	mg/L	every 6 days	5	9	27	41	
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	_	5.3	
total suspended solids	mg/L	every 6 days	5	70	138	190	

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

As per clause M2.4 under EPL 378, collection of samples from EPA Point 9 is required when sewage or effluent is discharged from EPA Point 6. There was no discharge from EPA Point 6 during the June monitoring period.

North Head Water Resource Recovery Facility **May Pollution Monitoring Summary**



Summary period: 01-05-2024 to 31-05-2024

Date obtained: 13-06-2024

Date published: 21-06-2024



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 sampling measure frequency 3DGM limit 3DGM Actual within limits						
oil and grease	mg/L	monthly	85	31	yes		
total suspended solids	mg/L	monthly	290	159	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 descrip	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	-	_	525	
chlorpyrifos	ug/L	monthly	1	-	_	<0.05	
copper	ug/L	monthly	1	_	_	93.8	
hydrogen sulphide (unionised)	ug/L	monthly	1	_	_	<30	
nonylphenol ethoxylate	ug/L	monthly	1	-	_	83	
oil and grease	mg/L	every 6 days	5	22	32	48	
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	_	3.4	
total suspended solids	mg/L	every 6 days	5	140	168	190	

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

As per clause M2.4 under EPL 378, collection of samples from EPA Point 9 is required when sewage or effluent is discharged from EPA Point 6. There was no discharge from EPA Point 6 during the May monitoring period.

North Head Water Resource Recovery Facility April Pollution Monitoring Summary



Summary period: 01-04-2024 to 30-04-2024

Date obtained: 06-05-2024

Date published: 20-05-2024

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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 sampling measure frequency 3DGM limit 3DGM Actual within limits						
oil and grease	mg/L	monthly	85	33	yes		
total suspended solids	mg/L	monthly	290	178	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	-	_	451	
chlorpyrifos	ug/L	monthly	1	_	_	<0.05	
copper	ug/L	monthly	1	_	_	125	
hydrogen sulphide (unionised)	ug/L	monthly	1	_	_	32	
nonylphenol ethoxylate	ug/L	monthly	1	_	_	104	
oil and grease	mg/L	every 6 days	5	29	37	48	
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	_	2.4	
total suspended solids	mg/L	every 6 days	5	120	162	200	

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

As per clause M2.4 under EPL 378, collection of samples from EPA Point 9 is required when sewage or effluent is discharged from EPA Point 6. There was no discharge from EPA Point 6 during the April monitoring period.

North Head Water Resource Recovery Facility March Pollution Monitoring Summary



Summary period: 01-03-2024 to 31-03-2024

Date obtained: 08-04-2024

Date published: 18-04-2024

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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 sampling measure frequency 3DGM limit 3DGM Actual within limits						
oil and grease	mg/L	monthly	85	43	yes		
total suspended solids	mg/L	monthly	290	206	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	_	_	503	
chlorpyrifos	ug/L	monthly	1	-	-	<0.05	
copper	ug/L	monthly	1	_	_	131	
hydrogen sulphide (unionised)	ug/L	monthly	1	_	_	<30	
nonylphenol ethoxylate	ug/L	monthly	1	_	_	12	
oil and grease	mg/L	every 6 days	5	42	46	51	
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	_	1.2	
total suspended solids	mg/L	every 6 days	5	200	216	240	

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

As per clause M2.4 under EPL 378, collection of samples from EPA Point 9 is required when sewage or effluent is discharged from EPA Point 6. There was no discharge from EPA Point 6 during the March monitoring period.

North Head Water Resource Recovery Facility February Pollution Monitoring Summary



Summary period: 01-02-2024 to 29-02-2024

Date obtained: 14-03-2024

Date published: 25-03-2024

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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 sampling measure frequency 3DGM limit 3DGM Actual within limits						
oil and grease	mg/L	monthly	85	47	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 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	-	-	442	
chlorpyrifos	ug/L	monthly	1	-	-	0.06	
copper	ug/L	monthly	1	-	-	134	
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30	
nonylphenol ethoxylate	ug/L	monthly	1	-	-	67	
oil and grease	mg/L	every 6 days	5	23	38	48	
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	1.3	
total suspended solids	mg/L	every 6 days	5	160	210	260	

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

As per clause M2.4 under EPL 378, collection of samples from EPA Point 9 is required when sewage or effluent is discharged from EPA Point 6. There was no discharge from EPA Point 6 during the February monitoring period.

North Head Water Resource Recovery Facility January Pollution Monitoring Summary



Summary period: 01-01-2024 to 31-01-2024

Date obtained: 06-02-2024

Date published: 19-02-2024



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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 sampling measure frequency 3DGM limit 3DGM Actual within limits						
oil and grease	mg/L	monthly	85	44	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 descrip	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	-	-	415	
chlorpyrifos	ug/L	monthly	1	-	_	<0.05	
copper	ug/L	monthly	1	_	_	121	
hydrogen sulphide (unionised)	ug/L	monthly	1	_	_	<30	
nonylphenol ethoxylate	ug/L	monthly	1	-	_	78	
oil and grease	mg/L	every 6 days	5	12	40	54	
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	_	4.2	
total suspended solids	mg/L	every 6 days	5	120	168	190	

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

As per clause M2.4 under EPL 378, collection of samples from EPA Point 9 is required when sewage or effluent is discharged from EPA Point 6. There was no discharge from EPA Point 6 during the January monitoring period.

North Head Water Resource Recovery Facility December Pollution Monitoring Summary



Summary period: 01-12-2023 to 31-12-2023

Date obtained: 10-01-2024

Date published: 22-01-2024



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Table 1: 3 Day Geometric Mean data

EPA Point 8 Site code NH0008	Point descrip	Point description: In effluent channel downstream of the dropshaft						
pollutant	unit of measure	3DGM limit 3DGM Actual within limits						
oil and grease	mg/L	monthly	85	42	yes			
total suspended solids	mg/L	monthly	290	166	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	-	_	430	
chlorpyrifos	ug/L	monthly	1	-	_	<0.05	
copper	ug/L	monthly	1	-	_	133	
hydrogen sulphide (unionised)	ug/L	monthly	1	-	_	114	
nonylphenol ethoxylate	ug/L	monthly	1	-	_	88	
oil and grease	mg/L	every 6 days	5	37	46	54	
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	_	6.4	
total suspended solids	mg/L	every 6 days	5	140	162	190	

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

As per clause M2.4 under EPL 378, collection of samples from EPA Point 9 is required when sewage or effluent is discharged from EPA Point 6. There was no discharge from EPA Point 6 during the December monitoring period.

North Head Water Resource Recovery Facility November Pollution Monitoring Summary



Summary period: 01-11-2023 to 30-11-2023

Date obtained: 11-12-2023

Date published: 14-12-2023

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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 sampling measure frequency 3DGM limit 3DGM Actual within limits						
oil and grease	mg/L	monthly	85	33	yes		
total suspended solids	mg/L	monthly	290	158	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 descrip	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	-	-	883	
chlorpyrifos	ug/L	monthly	1	-	_	<0.05	
copper	ug/L	monthly	1	_	_	112	
hydrogen sulphide (unionised)	ug/L	monthly	1	_	_	<30	
nonylphenol ethoxylate	ug/L	monthly	1	-	_	<5	
oil and grease	mg/L	every 6 days	5	32	43	52	
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	_	3.4	
total suspended solids	mg/L	every 6 days	5	170	194	240	

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

As per clause M2.4 under EPL 378, collection of samples from EPA Point 9 is required when sewage or effluent is discharged from EPA Point 6. There was no discharge from EPA Point 6 during the November monitoring period.

North Head Water Resource Recovery Facility October Pollution Monitoring Summary



Summary period: 01-10-2023 to 31-10-2023

Date obtained: 03-11-2023

Date published: 17-11-2023

Sydney **WAT ₹R**

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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 sampling measure frequency 3DGM limit 3DGM Actual within limits						
oil and grease	mg/L	monthly	85	48	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 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	_	_	432
chlorpyrifos	ug/L	monthly	1	_	_	<0.05
copper	ug/L	monthly	1	_	_	123
hydrogen sulphide (unionised)	ug/L	monthly	1	_	_	77
nonylphenol ethoxylate	ug/L	monthly	1	_	_	59
oil and grease	mg/L	every 6 days	5	34	43	52
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	_	3.4
total suspended solids	mg/L	every 6 days	5	160	182	200

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

As per clause M2.4 under EPL 378, collection of samples from EPA Point 9 is required when sewage or effluent is discharged from EPA Point 6. There was no discharge from EPA Point 6 during the October monitoring period.

North Head Water Resource Recovery Facility September Pollution Monitoring Summary



Summary period: 01-09-2023 to 30-09-2023

Date obtained: 05-10-2023

Date published: 13-10-2023

Sydney **WAT ₹R**

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 sampling measure frequency 3DGM limit 3DGM Actual within limits						
oil and grease	mg/L	monthly	85	48	yes		
total suspended solids	mg/L	monthly	290	216	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	-	_	386	
chlorpyrifos	ug/L	monthly	1	_	_	<0.05	
copper	ug/L	monthly	1	_	_	119	
hydrogen sulphide (unionised)	ug/L	monthly	1	_	_	218	
nonylphenol ethoxylate	ug/L	monthly	1	-	_	40	
oil and grease	mg/L	every 6 days	5	30	45	54	
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	_	2.1	
total suspended solids	mg/L	every 6 days	5	170	204	240	

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

As per clause M2.4 under EPL 378, collection of samples from EPA Point 9 is required when sewage or effluent is discharged from EPA Point 6. There was no discharge from EPA Point 6 during the September monitoring period.

North Head Water Resource Recovery Facility August Pollution Monitoring Summary



Summary period: 01-08-2023 to 31-08-2023

Date obtained: 08-09-2023

Date published: 14-09-2023



Licensee: Sydney Water Corporation

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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 dropshaft						
pollutant	unit of measure	3DGM limit 3DGM Actual within limits						
oil and grease	mg/L	monthly	85	50	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 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	_	_	525	
chlorpyrifos	ug/L	monthly	1	_	_	<0.05	
copper	ug/L	monthly	1	_	_	126	
hydrogen sulphide (unionised)	ug/L	monthly	1	_	_	230	
nonylphenol ethoxylate	ug/L	monthly	1	_	_	85	
oil and grease	mg/L	every 6 days	6	40	47	54	
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	_	1	
total suspended solids	mg/L	every 6 days	6	170	197	220	

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

As per clause M2.4 under EPL 378, collection of samples from EPA Point 9 is required when sewage or effluent is discharged from EPA Point 6. There was no discharge from EPA Point 6 during the August monitoring period.

North Head Water Resource Recovery Facility July Pollution Monitoring Summary



Summary period: 01-07-2023 to 31-07-2023

Date obtained: 05-08-2023

Date published: 15-08-2023



Licensee: Sydney Water Corporation

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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 sampling measure frequency 3DGM limit 3DGM Actual within limits						
oil and grease	mg/L	monthly	85	54	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 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	_	-	558	
chlorpyrifos	ug/L	monthly	1	-	-	<0.05	
copper	ug/L	monthly	1	-	_	132	
hydrogen sulphide (unionised)	ug/L	monthly	1	-	_	60	
nonylphenol ethoxylate	ug/L	monthly	1	-	_	6	
oil and grease	mg/L	every 6 days	5	51	56	63	
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	_	3.8	
total suspended solids	mg/L	every 6 days	5	170	194	200	

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

As per clause M2.4 under EPL 378, collection of samples from EPA Point 9 is required when sewage or effluent is discharged from EPA Point 6. There was no discharge from EPA Point 6 during the July monitoring period.