Shellharbour Water Resource Recovery Facility March Pollution Monitoring Summary

EPL 211

Summary period: 01-03-2025 to 31-03-2025

Date obtained: 08-04-2025 Date published: 22-04-2025 **Licensee:** Sydney Water Corporation PO Box 399

Sydney

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 4 Site code SH0004	Point description: At the southern end of the secondary effluent channel						
pollutant	unit of sampling measure frequency 3DGM limit 3DGM Actual within limits						
total suspended solids	mg/L	monthly	50	24	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 4 Site code SH0004	Point descript channel	Point description: At the southern end of the secondary effluent channel					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result	
aluminium	ug/L	monthly	1	-	-	26	
biochemical oxygen demand	mg/L	every 6 days	5	9	14	19	
copper	ug/L	monthly	1	-	-	6.8	
diazinon	ug/L	monthly	1	-	-	<0.1	
faecal coliforms	CFU/100mL	every 6 days	6	530	56,655	280,000	
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30	
nitrogen (ammonia)	mg/L	monthly	1	-	-	1.8	
nonylphenol ethoxylate	ug/L	monthly	1	-	-	<5	
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100	
total suspended solids	mg/L	every 6 days	5	11	23	47	

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

Shellharbour Water Resource Recovery Facility February Pollution Monitoring Summary



Summary period: 01-02-2025 to 28-02-2025

Date obtained: 07-03-2025

Date published: 19-03-2025

Sydney **WAT ₹**R

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 4 Site code SH0004	Point description: At the southern end of the secondary effluent channel						
pollutant	unit of sampling measure frequency 3DGM limit 3DGM Actual within limits						
total suspended solids	mg/L	monthly	50	11	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 4 Site code SH0004	Point descript channel	Point description: At the southern end of the secondary effluent channel					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result	
aluminium	ug/L	monthly	1	_	-	23	
biochemical oxygen demand	mg/L	every 6 days	5	11	13.6	17	
copper	ug/L	monthly	1	_	-	2.6	
diazinon	ug/L	monthly	1	_	-	<0.1	
faecal coliforms	CFU/100mL	every 6 days	4	1,500	84,975	290,000	
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30	
nitrogen (ammonia)	mg/L	monthly	1	_	-	2.4	
nonylphenol ethoxylate	ug/L	monthly	1	-	-	6	
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	_	-	100	
total suspended solids	mg/L	every 6 days	5	10	13	17	

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

Shellharbour Water Resource Recovery Facility January Pollution Monitoring Summary



Summary period: 01-01-2025 to 31-01-2025

Date obtained: 07-02-2025

Date published: 14-02-2025

Sydney **WAT ₹**R

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 4 Site code SH0004	Point description: At the southern end of the secondary effluent channel						
pollutant	unit of sampling and sampling sampling specification and specifica						
total suspended solids	mg/L	monthly	50	14	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 4 Site code SH0004	Point descript channel	Point description: At the southern end of the secondary effluent channel					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result	
aluminium	ug/L	monthly	1	-	-	30	
biochemical oxygen demand	mg/L	every 6 days	5	7	11	19	
copper	ug/L	monthly	1	-	-	3.1	
diazinon	ug/L	monthly	1	-	-	<0.1	
faecal coliforms	CFU/100mL	every 6 days	5	150	69,230	100,000	
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30	
nitrogen (ammonia)	mg/L	monthly	1	-	-	11.8	
nonylphenol ethoxylate	ug/L	monthly	1	-	-	<5	
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	_	-	100	
total suspended solids	mg/L	every 6 days	5	8	13	19	

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

Shellharbour Water Resource Recovery Facility December Pollution Monitoring Summary

EPL 211

Summary period: 01-12-2024 to 31-12-2024

Date obtained: 07-01-2025

Date published: 15-01-2025

Sydney **WAT ₹R**

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 4 Site code SH0004	Point description: At the southern end of the secondary effluent channel						
pollutant	unit of sampling and sampling sampling specification and specifica						
total suspended solids	mg/L	monthly	50	9	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 4 Site code SH0004	Point descript channel	Point description: At the southern end of the secondary effluent channel					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result	
aluminium	ug/L	monthly	1	_	-	31	
biochemical oxygen demand	mg/L	every 6 days	5	6	7.6	10	
copper	ug/L	monthly	1	-	-	2.8	
diazinon	ug/L	monthly	1	-	-	<0.1	
faecal coliforms	CFU/100mL	every 6 days	6	9	66,683	400,000	
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30	
nitrogen (ammonia)	mg/L	monthly	1	-	-	11.8	
nonylphenol ethoxylate	ug/L	monthly	1	-	-	<5	
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	_	-	100	
total suspended solids	mg/L	every 6 days	5	8	11	18	

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

Shellharbour Water Resource Recovery Facility November Pollution Monitoring Summary



Summary period: 01-11-2024 to 30-11-2024

Date obtained: 09-12-2024

Date published: 13-12-2024

Sydney **WAT ₹R**

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PO Box 399

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 4 Site code SH0004	Point description: At the southern end of the secondary effluent channel						
pollutant	unit of sampling measure frequency 3DGM limit 3DGM Actual within limits						
total suspended solids	mg/L	monthly	50	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 4 Site code SH0004	Point descript channel	Point description: At the southern end of the secondary effluent channel					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result	
aluminium	ug/L	monthly	1	_	-	13	
biochemical oxygen demand	mg/L	every 6 days	5	8	10.6	20	
copper	ug/L	monthly	1	-	-	1.2	
diazinon	ug/L	monthly	1	-	_	<0.1	
faecal coliforms	CFU/100mL	every 6 days	5	6	231	990	
hydrogen sulphide (unionised)	ug/L	monthly	1	-	_	<30	
nitrogen (ammonia)	mg/L	monthly	1	_	-	31.2	
nonylphenol ethoxylate	ug/L	monthly	1	-	-	<5	
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	_	_	100	
total suspended solids	mg/L	every 6 days	5	7	15	37	

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

Shellharbour Water Resource Recovery Facility October Pollution Monitoring Summary



Summary period: 01-10-2024 to 31-10-2024

Date obtained: 09-11-2024

Date published: 15-11-2024



Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 4 Site code SH0004	Point description: At the southern end of the secondary effluent channel						
pollutant	unit of sampling measure frequency 3DGM limit 3DGM Actual within limits						
total suspended solids	mg/L	monthly	50	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 4 Site code SH0004	Point descript channel	Point description: At the southern end of the secondary effluent channel					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result	
aluminium	ug/L	monthly	1	_	_	14	
biochemical oxygen demand	mg/L	every 6 days	6	5	5.33	7	
copper	ug/L	monthly	1	-	_	1.8	
diazinon	ug/L	monthly	1	-	-	<0.1	
faecal coliforms	CFU/100mL	every 6 days	5	17	136	360	
hydrogen sulphide (unionised)	ug/L	monthly	1	_	_	<30	
nitrogen (ammonia)	mg/L	monthly	1	-	-	22.9	
nonylphenol ethoxylate	ug/L	monthly	1	-	_	<5	
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	_	_	100	
total suspended solids	mg/L	every 6 days	6	6	7	8	

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

Shellharbour Water Resource Recovery Facility September Pollution Monitoring Summary



Summary period: 01-09-2024 to 30-09-2024

Date obtained: 04-10-2024

Date published: 15-10-2024

Sydney **WAT ₹R**

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 4 Site code SH0004	Point descrip	Point description: At the southern end of the secondary effluent channel						
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits			
total suspended solids	mg/L	monthly	50	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 4 Site code SH0004	Point descript channel	Point description: At the southern end of the secondary effluent channel					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result	
aluminium	ug/L	monthly	1	-	-	19	
biochemical oxygen demand	mg/L	every 6 days	5	3	4	6	
copper	ug/L	monthly	1	-	_	2.2	
diazinon	ug/L	monthly	1	-	_	<0.1	
faecal coliforms	CFU/100mL	every 6 days	5	10	83	330	
hydrogen sulphide (unionised)	ug/L	monthly	1	-	_	<30	
nitrogen (ammonia)	mg/L	monthly	1	-	_	24.1	
nonylphenol ethoxylate	ug/L	monthly	1	-	-	<5	
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	_	100	
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.

Shellharbour Water Resource Recovery Facility August Pollution Monitoring Summary



Summary period: 01-08-2024 to 31-08-2024

Date obtained: 05-09-2024

Date published: 13-09-2024

Sydney **WAT ₹R**

Licensee: Sydney Water Corporation

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PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 4 Site code SH0004	Point description: At the southern end of the secondary effluent channel					
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits	
total suspended solids	mg/L	monthly	50	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 4 Site code SH0004	Point description: At the southern end of the secondary effluent channel					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	17
biochemical oxygen demand	mg/L	every 6 days	5	<2	3	5
copper	ug/L	monthly	1	-	-	1.8
diazinon	ug/L	monthly	1	-	-	<0.1
faecal coliforms	CFU/100mL	every 6 days	5	2	9	21
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
nitrogen (ammonia)	mg/L	monthly	1	-	-	9
nonylphenol ethoxylate	ug/L	monthly	1	-	-	<5
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	_	_	100
total suspended solids	mg/L	every 6 days	5	2	5	7

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

Shellharbour Water Resource Recovery Facility July Pollution Monitoring Summary

EPL 211

Summary period: 01-07-2024 to 31-07-2024

Date obtained: 08-08-2024

Date published: 16-08-2024



Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 4 Site code SH0004	Point description: At the southern end of the secondary effluent channel					
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits	
total suspended solids	mg/L	monthly	50	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 4 Site code SH0004	Point descript channel	Point description: At the southern end of the secondary effluent channel					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result	
aluminium	ug/L	monthly	1	-	-	36	
biochemical oxygen demand	mg/L	every 6 days	5	3	3	4	
copper	ug/L	monthly	1	-	-	2.8	
diazinon	ug/L	monthly	1	_	-	<0.1	
faecal coliforms	CFU/100mL	every 6 days	5	3	17,408	87,000	
hydrogen sulphide (unionised)	ug/L	monthly	1	_	-	<30	
nitrogen (ammonia)	mg/L	monthly	1	_	-	0.7	
nonylphenol ethoxylate	ug/L	monthly	1	_	-	25	
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	_	-	100	
total suspended solids	mg/L	every 6 days	5	6	7	8	

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