

# Shellharbour Wastewater Treatment Plant

## 2023-24 Pollution monitoring yearly limit summaries



### EPL 211

Summary period: 01-07-2023 to 30-06-2024

Date published: 01-09-2024

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

50 percentile yearly summary								
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	maximum result	50 percentile limit	50 percentile value	within limits
biochemical oxygen demand	mg/L	every 6 days	61	<2	18	20	3	yes
faecal coliforms	CFU/100mL	every 6 days	61	1	950,000	150	60	yes
total suspended solids	mg/L	every 6 days	61	<2	28	30	6	yes
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	12	100	100	2.09	100	yes

90 percentile yearly summary								
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	maximum result	90 percentile limit	90 percentile value	within limits
aluminium	ug/L	monthly	12	12	207	220	39	yes
copper	ug/L	monthly	12	0.5	7.9	20	3.6	yes
diazinon	ug/L	monthly	12	<0.1	<0.1	1	<0.1	yes
hydrogen sulphide (unionised)	ug/L	monthly	12	<30	<30	165	<30	yes
nitrogen (ammonia)	mg/L	monthly	12	<0.1	5.9	38	4.2	yes
nonylphenol ethoxylate	ug/L	monthly	12	<5	13	10	11	no <sup>1</sup>
total suspended solids	mg/L	every 6 days	61	<2	28	40	11	yes

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90 percentile yearly summary								
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	maximum result	90 percentile limit	90 percentile value	within limits
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	12	100	100	1.87	100	yes

Average yearly summary								
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	maximum result	Average Limit	Average value	within limits
aluminium	ug/L	monthly	12	12	207	110	36	yes
copper	ug/L	monthly	12	0.5	7.9	10	2.6	yes
diazinon	ug/L	monthly	12	<0.1	<0.1	0.1	<0.1	yes
hydrogen sulphide (unionised)	ug/L	monthly	12	<30	<30	44	<30	yes
nitrogen (ammonia)	mg/L	monthly	12	<0.1	5.9	20	1.7	yes
nonylphenol ethoxylate	ug/L	monthly	12	<5	13	6	<5	yes

1 nonylphenol ethoxylate 90th percentile limit exceedance due to catchment growth and limitations of the existing treatment technology to meet Stage 1 concentration limits. Stage two limit review aims to address non-compliance.