

Bondi Wastewater Treatment Plant

July Pollution Monitoring Summary



EPL 1688

Summary period: 01-07-2021 to 31-07-2021

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Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 5 Site code BN0005		Point description: In the effluent channel downstream of the sedimentation tanks			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
oil and grease	mg/L	monthly	60	29	yes
total suspended solids	mg/L	monthly	290	72	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 5 Site code BN0005		Point description: In the effluent channel downstream of the sedimentation tanks				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	192
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
nonylphenol ethoxylate	ug/L	monthly	1	-	-	62
oil and grease	mg/L	every 6 days	5	28	33	39
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	1.5
total suspended solids	mg/L	every 6 days	5	72	85	100

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

As per clause M2.4 under EPL 1688, collection of samples from EPA Point 8 is required when sewage or effluent is discharged from EPA Point 2. There was no discharge from EPA Point 2 during the July monitoring period.

Effluent quality monitoring results obtained from EPA Point 5 are used to indicate the quality of water discharged at EPA Point 1 (Deep water ocean outfall).