

Cronulla Wastewater Treatment Plant

July Pollution Monitoring Summary



EPL 1728

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 3 Site code CR0003		Point description: Inlet to the UV chamber			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
biochemical oxygen demand	mg/L	monthly	40	6	yes
carbonaceous biochemical oxygen demand	mg/L	monthly	40	<2	yes
oil and grease	mg/L	monthly	15	<5	yes
total suspended solids	mg/L	monthly	10	<2	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 3 Site code CR0003		Point description: Inlet to the UV chamber				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	24
biochemical oxygen demand	mg/L	every 6 days	5	5	6.2	8
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2
chlorpyrifos	ug/L	monthly	1	-	-	<0.05
copper	ug/L	monthly	1	-	-	5.9
cyanide	ug/L	monthly	1	-	-	<5
diazinon	ug/L	monthly	1	-	-	<0.1
nitrogen (ammonia)	mg/L	monthly	1	-	-	21.7
nonylphenol ethoxylate	ug/L	monthly	1	-	-	<5
oil and grease	mg/L	every 6 days	5	<5	<5	<5
total suspended solids	mg/L	every 6 days	5	<2	<2	<2
zinc	ug/L	monthly	1	-	-	29

EPA Point 17 Site code CR0017		Point description: Outlet of the UV chamber				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
faecal coliforms	CFU/100mL	every 6 days	5	2	21	58
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100

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

Effluent quality monitoring results obtained from EPA Points 3 and 17 are used to indicate the quality of water discharged at EPA Point 1 (discharge to waters).