

North Richmond Wastewater Treatment Plant

2020-21 Pollution monitoring yearly limit summaries



EPL 190

Summary period: 01-07-2020 to 30-06-2021

Date published: 13-08-2021

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

50 percentile yearly summary								
EPA Point 4 Site code NR0004		Point description: Downstream of the weir from the disinfection facilities						
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	50	<2	3	10	<2	yes
nitrogen (ammonia)	mg/L	every 6 days	60	0.12	2.32	0.9	0.43	yes
nitrogen (total)	mg/L	every 6 days	60	2.31	8	10	4.92	yes
phosphorus (total)	mg/L	every 6 days	60	0.09	0.78	2	0.18	yes
total suspended solids	mg/L	every 6 days	60	<2	6	5	2	yes

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90 percentile yearly summary								
EPA Point 4 Site code NR0004	Point description: Downstream of the weir from the disinfection facilities							
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	148	344	873	344	yes
biochemical oxygen demand	mg/L	every 6 days	50	<2	3	15	<2	yes
copper	ug/L	monthly	12	2	5	7	4.3	yes
cyanide	ug/L	monthly	2	<5	<5	-	<5	n/a
diazinon	ug/L	monthly	12	<0.1	<0.1	0.1	<0.1	yes
iron	ug/L	monthly	12	13	29	180	27	yes
nitrogen (ammonia)	mg/L	every 6 days	60	0.12	2.32	1.4	0.89	yes
nitrogen (total)	mg/L	every 6 days	60	2.31	8	15	6.5	yes
phosphorus (total)	mg/L	every 6 days	60	0.09	0.78	5	0.37	yes
total suspended solids	mg/L	every 6 days	60	<2	6	10	3	yes
zinc	ug/L	monthly	12	12	38	57	27	yes

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Average yearly summary								
EPA Point 4 Site code NR0004		Point description: Downstream of the weir from the disinfection facilities						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	Average Limit	Average value	within limits
aluminium	ug/L	monthly	12	148	344	500	264	yes
copper	ug/L	monthly	12	2	5	5	3	yes
cyanide	ug/L	monthly	2	<5	<5	-	<5	n/a
diazinon	ug/L	monthly	12	<0.1	<0.1	0.2	<0.1	yes
iron	ug/L	monthly	12	13	29	95	21	yes
zinc	ug/L	monthly	12	12	38	49	21	yes

50 percentile yearly summary								
EPA Point 5 Site code NR0005		Point description: Outlet of the disinfection facilities						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	50 percentile limit	50 percentile value	within limits
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	12	100	100	50	100	yes

80 percentile yearly summary								
EPA Point 5 Site code NR0005		Point description: Outlet of the disinfection facilities						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	80 percentile limit	80 percentile value	within limits
faecal coliforms	CFU/100mL	every 6 days	59	<1	1,100	200	23	yes

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90 percentile yearly summary								
EPA Point 5 Site code NR0005		Point description: Outlet of the disinfection facilities						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	90 percentile limit	90 percentile value	within limits
hydrogen sulphide (unionised)	ug/L	monthly	12	<30	<30	60	<30	yes

Average yearly summary								
EPA Point 5 Site code NR0005		Point description: Outlet of the disinfection facilities						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	Average Limit	Average value	within limits
hydrogen sulphide (unionised)	ug/L	monthly	12	<30	<30	30	<30	yes

Note: Sydney Water commenced monitoring of biochemical oxygen demand from 1st September 2020. Historically, carbonaceous biochemical oxygen demand was monitored.

Effluent quality monitoring results obtained from EPA Points 4 and 5 are used to indicate the quality of water discharged at EPA Point 1 (discharge to waters).