

Richmond Wastewater Treatment Plant

2020-21 Pollution monitoring yearly limit summaries



EPL 1726

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 16 Site code RM0016		Point description: Outlet of dechlorination tank						
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	41	<2	15	10	<2	yes
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	onthly during discha	8	100	100	50	100	yes
nitrogen (ammonia)	mg/L	every 6 days	50	<0.1	3.1	0.9	<0.1	yes
nitrogen (total)	mg/L	every 6 days	50	4.51	8.22	10	5.73	yes
phosphorus (total)	mg/L	every 6 days	50	0.02	0.45	0.3	0.03	yes
total suspended solids	mg/L	every 6 days	50	<2	12	5	<2	yes

80 percentile yearly summary								
EPA Point 16 Site code RM0016		Point description: Outlet of dechlorination tank						
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	50	5	100,000	200	75	yes

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90 percentile yearly summary								
EPA Point 16 Site code RM0016		Point description: Outlet of dechlorination tank						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	90 percentile limit	90 percentile value	within limits
biochemical oxygen demand	mg/L	every 6 days	41	<2	15	15	2	yes
nitrogen (ammonia)	mg/L	every 6 days	50	<0.1	3.1	1.4	<0.1	yes
nitrogen (total)	mg/L	every 6 days	50	4.51	8.22	15	6.99	yes
phosphorus (total)	mg/L	every 6 days	50	0.02	0.45	1	0.05	yes
total suspended solids	mg/L	every 6 days	50	<2	12	10	2	yes
chlorine (total residual)	mg/L	every 6 days	50	<0.04	<0.04	0.1	<0.04	yes

Effluent quality monitoring results obtained from EPA Point 16 are used to indicate the quality of water discharged at EPA Point 12 (discharge to waters).

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50 percentile yearly summary								
EPA Point 17 Site code RM0017	Point description: Inlet to recycled water pump station							
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	51	<2	<2	10	<2	yes
faecal coliforms	CFU/100mL	every 6 days	60	<1	13	10	<1	yes
nitrogen (ammonia)	mg/L	every 6 days	61	<0.01	1.6	1	<0.01	yes
nitrogen (total)	mg/L	every 6 days	61	3.14	7.84	10	5.15	yes
phosphorus (total)	mg/L	every 6 days	61	0.02	0.11	0.3	0.03	yes
total suspended solids	mg/L	every 6 days	61	<2	4	10	<2	yes

90 percentile yearly summary								
EPA Point 17 Site code RM0017	Point description: Inlet to recycled water pump station							
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	90 percentile limit	90 percentile value	within limits
biochemical oxygen demand	mg/L	every 6 days	51	<2	<2	15	<2	yes
nitrogen (ammonia)	mg/L	every 6 days	61	<0.01	1.6	5	0.03	yes
nitrogen (total)	mg/L	every 6 days	61	3.14	7.84	15	6.61	yes
phosphorus (total)	mg/L	every 6 days	61	0.02	0.11	1	0.05	yes
total suspended solids	mg/L	every 6 days	61	<2	4	15	2	yes
chlorine (total residual)	mg/L	every 6 days	60	1.24	3.8	5	2.05	yes

Effluent quality monitoring results obtained from EPA Point 17 are used to indicate the quality of water to Points 4, 13 and 14.

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