

Richmond Wastewater Treatment Plant

2021-22 Pollution monitoring yearly limit summaries



EPL 1726

Summary period: 01-07-2021 to 30-06-2022

Date published: 30-08-2022

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 during discharge	51	<2	11	10	<2	yes
carbonaceous biochemical oxygen demand	mg/L	every 6 days during discharge	51	<2	10	10	<2	yes
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly during discharge	9	100	100	50	100	yes
nitrogen (ammonia)	mg/L	every 6 days during discharge	51	<0.1	1.6	1	<0.1	yes
nitrogen (total)	mg/L	every 6 days during discharge	51	2.69	8.75	10	6.58	yes
phosphorus (total)	mg/L	every 6 days during discharge	51	0.02	0.12	0.3	0.03	yes
total suspended solids	mg/L	every 6 days during discharge	51	<2	5	10	<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 during discharge	51	<1	420	200	50	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 during discharge	51	<2	11	15	3	yes
carbonaceous biochemical oxygen demand	mg/L	every 6 days during discharge	51	<2	10	15	<2	yes
nitrogen (ammonia)	mg/L	every 6 days during discharge	51	<0.1	1.6	5	<0.1	yes
nitrogen (total)	mg/L	every 6 days during discharge	51	2.69	8.75	15	8.02	yes
phosphorus (total)	mg/L	every 6 days during discharge	51	0.02	0.12	1	0.04	yes
chlorine (total residual)	mg/L	every 6 days during discharge	51	<0.04	3.3	0.1	<0.04	yes

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	61	<2	<2	10	<2	yes
carbonaceous biochemical oxygen demand	mg/L	every 6 days	61	<2	<2	10	<2	yes
chlorine (total residual)	mg/L	every 6 days	61	0.58	8	5	1.46	yes
faecal coliforms	CFU/100mL	every 6 days	61	<1	5	10	<1	yes
nitrogen (ammonia)	mg/L	every 6 days	61	<0.01	1.81	1	<0.01	yes
nitrogen (total)	mg/L	every 6 days	61	3.16	18	10	6.25	yes
phosphorus (total)	mg/L	every 6 days	61	0.02	0.1	0.3	0.03	yes
total suspended solids	mg/L	every 6 days	61	<2	6	10	<2	yes

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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	60	<2	<2	15	<2	yes
carbonaceous biochemical oxygen demand	mg/L	every 6 days	60	<2	<2	15	<2	yes
nitrogen (ammonia)	mg/L	every 6 days	60	<0.01	1.81	5	0.18	yes
nitrogen (total)	mg/L	every 6 days	60	3.16	18	15	7.37	yes
phosphorus (total)	mg/L	every 6 days	60	0.02	0.1	1	0.05	yes
total suspended solids	mg/L	every 6 days	60	<5	6	15	<5	yes
chlorine (total residual)	mg/L	every 6 days	61	0.58	8	5	1.83	yes

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