

St Marys Wastewater Treatment Plant

2024-25 Pollution Monitoring Summary



EPL 1729

Summary period: 01-07-2024 to 30-06-2025

Date published: 01-08-2025

Licensee: Sydney Water Corporation
PO Box 399
PARRAMATTA NSW 2124

Table 1: 50 percentile yearly summary								
EPA Point 5 Site code SM0005		Point description: At the outlet of the chlorine contact 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	60	<2	<2	10	<2	yes
copper	ug/L	monthly	12	4.4	13.4	25	6.9	yes
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	12	100	100	50	100	yes
nitrogen (ammonia)	mg/L	every 6 days	60	0.01	0.41	0.9	0.02	yes
total suspended solids	mg/L	every 6 days	60	<2	2	5	<2	yes

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Table 2: 80 percentile yearly summary								
EPA Point 5 Site code SM0005		Point description: At the outlet of the chlorine contact 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	61	<1	14	200	3	yes

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Table 3: 90 percentile yearly summary								
EPA Point 5 Site code SM0005	Point description: At the outlet of the chlorine contact tank							
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	90 percentile limit	90 percentile value	within limit
aluminium	ug/L	monthly	12	36	353	200	172	yes
biochemical oxygen demand	mg/L	every 6 days	60	<2	<2	15	<2	yes
chlorine (total residual)	mg/L	every 6 days	60	<0.04	0.15	0.1	<0.04	yes
copper	ug/L	monthly	12	4.4	13.4	50	10.3	yes
diazinon	ug/L	monthly	12	<0.1	<0.1	0.1	<0.1	yes
hydrogen sulphide (unionised)	ug/L	monthly	12	<30	<30	60	<30	yes
iron	ug/L	monthly	12	47	141	96	93	yes
nickel	ug/L	monthly	12	3.4	5	16.9	4.7	yes
nitrogen (ammonia)	mg/L	every 6 days	60	0.01	0.41	1.4	0.03	yes
total suspended solids	mg/L	every 6 days	60	<2	2	10	<2	yes
zinc	ug/L	monthly	12	14	31	46	28	yes

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Table 4: 100 percentile yearly summary								
EPA Point 5 Site code SM0005		Point description: At the outlet of the chlorine contact tank						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	100 percentile limit	100 percentile value	within limits
nitrogen (total)	mg/L	every 6 days	60	2.11	10.3	45	10.3	yes
phosphorus	mg/L	every 6 days	60	0.02	0.12	5	0.12	yes

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Table 5: Average yearly summary								
EPA Point 5 Site code SM0005		Point description: At the outlet of the chlorine contact tank						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	Average limit	Average value	within limits
aluminium	ug/L	monthly	12	36	353	120	105	yes
diazinon	ug/L	monthly	12	<0.1	<0.1	0.2	<0.1	yes
hydrogen sulphide (unionised)	ug/L	monthly	12	<30	<30	30	<30	yes
iron	ug/L	monthly	12	47	141	156	77	yes
nickel	ug/L	monthly	12	3.4	5	12.3	4.2	yes
zinc	ug/L	monthly	12	14	31	37	21	yes