

# St Marys Wastewater Treatment Plant 2023-24 Pollution Monitoring Summary



## EPL 1729

Summary period: 01-07-2023 to 30-06-2024

Date published: 01-09-2024

**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	61	<2	<2	10	<2	yes
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	12	100	100	50	100	yes
nitrogen (ammonia)	mg/L	every 6 days	61	0.01	0.8	0.9	0.02	yes
total suspended solids	mg/L	every 6 days	61	<2	5	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	25	200	6	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	33	146	200	137	yes
biochemical oxygen demand	mg/L	every 6 days	61	<2	<2	15	<2	yes
chlorine (total residual)	mg/L	every 6 days	61	<0.04	0.04	0.1	<0.04	yes
copper	ug/L	monthly	12	6.8	15.4	8	15.3	no <sup>1</sup>
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	43	102	96	83	yes
nickel	ug/L	monthly	12	2.9	6.6	16.9	4.6	yes
nitrogen (ammonia)	mg/L	every 6 days	61	0.01	0.8	1.4	0.05	yes
total suspended solids	mg/L	every 6 days	61	<2	5	10	<2	yes
zinc	ug/L	monthly	12	18	34	46	32	yes

<sup>1</sup> Copper 90th percentile limit exceedance was largely influenced by the implementation of tighter limits following the Stage 1 concentration limit review and significant technology changes in biosolids treatment as part of the Lower South Creek Treatment Program.

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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	61	2.46	8.74	45	8.74	yes
phosphorus	mg/L	every 6 days	61	0.02	0.18	5	0.18	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	33	146	120	69	yes
copper	ug/L	monthly	12	6.8	15.4	6	12	no <sup>2</sup>
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	43	102	156	70	yes
nickel	ug/L	monthly	12	2.9	6.6	12.3	3.8	yes
zinc	ug/L	monthly	12	18	34	37	25	yes

2 Copper average limit exceedance was largely influenced by the implementation of tighter limits following the Stage 1 concentration limit review and significant technology changes in biosolids treatment as part of the Lower South Creek Treatment Program.