

Penrith Wastewater Treatment Plant

2023-24 Pollution monitoring yearly limit summaries



EPL 1409

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

Date published: 01-09-2024

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

50 percentile yearly summary								
EPA Point 5 Site code PR0005		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	7	10	<2	yes
nitrogen (ammonia)	mg/L	every 6 days	61	0.02	2.31	1	0.04	yes
nitrogen (total)	mg/L	every 6 days	61	2.78	8.68	10	5.21	yes
phosphorus (total)	mg/L	every 6 days	61	0.05	0.88	0.2	0.10	yes
total suspended solids	mg/L	every 6 days	61	<2	19	5	<2	yes

80 percentile yearly summary								
EPA Point 5 Site code PR0005		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	69,000	200	89	yes

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90 percentile yearly summary								
EPA Point 5 Site code PR0005	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 limits
aluminium	ug/L	monthly	12	100	230	270	209	yes
biochemical oxygen demand	mg/L	every 6 days	61	<2	7	15	<2	yes
cadmium	ug/L	monthly	12	<0.1	<0.1	0.2	<0.1	yes
copper	ug/L	monthly	12	2.7	7.8	9	7.3	yes
hydrogen sulphide (unionised)	ug/L	monthly	12	<30	<30	60	<30	yes
iron	ug/L	monthly	12	94	199	350	170	yes
nitrogen (ammonia)	mg/L	every 6 days	61	0.02	2.31	5	0.41	yes
nitrogen (total)	mg/L	every 6 days	61	2.78	8.68	15	6.45	yes
phosphorus (total)	mg/L	every 6 days	61	0.05	0.88	0.4	0.21	yes
total suspended solids	mg/L	every 6 days	61	<2	19	10	<2	yes
zinc	ug/L	monthly	12	21	44	180	37	yes

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Average yearly summary								
EPA Point 5 Site code PR0005	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	100	230	200	147	yes
cadmium	ug/L	monthly	12	<0.1	<0.1	0.2	<0.1	yes
copper	ug/L	monthly	12	2.7	7.8	8	5.7	yes
hydrogen sulphide (unionised)	ug/L	monthly	12	<30	<30	30	<30	yes
iron	ug/L	monthly	12	94	199	330	132	yes
zinc	ug/L	monthly	12	21	44	60	29	yes

90 percentile yearly summary								
EPA Point 21 Site code PR0021	Point description: Disinfected plant effluent quality downstream of the St Marys AWTP return stream							
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	90 percentile limit	90 percentile value	within limits
chlorine (total residual)	mg/L	every 6 days	61	<0.04	0.07	0.1	<0.04	yes

50 percentile yearly summary								
EPA Point 22 Site code PR0022	Point description: Upstream of the St Marys AWTP return stream							
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	50 percentile limit	50 percentile value	within limits
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	12	61.6	100	50	100	yes