

Penrith Wastewater Treatment Plant

2022-23 Pollution monitoring yearly limit summaries



EPL 1409

Summary period: 01-07-2022 to 30-06-2023

Date published: 1-09-2023

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	5	10	<2	yes
nitrogen (ammonia)	mg/L	every 6 days	52	0.02	5.13	0.9	0.05	yes
nitrogen (ammonia) ¹	mg/L	every 6 days	9	0.02	0.89	1.0 ¹	0.03	yes
nitrogen (total)	mg/L	every 6 days	61	2.04	6.97	10	2.94	yes
phosphorus (total)	mg/L	every 6 days	61	0.06	0.92	0.2	0.12	yes
total suspended solids	mg/L	every 6 days	61	<2	11	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	60	<1	290	200	30	yes

¹ Nitrogen (ammonia) 50th(1.0 mg/L) and 90th(5.0 mg/L) percentile limit variation came into affect on the 10/05/2023 for PR0005.

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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	116	200	270	168	yes
biochemical oxygen demand	mg/L	every 6 days	61	<2	5	15	<2	yes
cadmium	ug/L	monthly	12	<0.1	<0.1	0.2	<0.1	yes
copper	ug/L	monthly	12	1.9	4.7	9	4	yes
hydrogen sulphide (unionised)	ug/L	monthly	12	<30	<30	60	<30	yes
iron	ug/L	monthly	12	113	179	350	170	yes
nitrogen (ammonia)	mg/L	every 6 days	52	0.02	5.13	1.4	1.15	yes
nitrogen (ammonia) ¹	mg/L	every 6 days	9	0.02	0.89	5.0 ¹	0.89	yes
nitrogen (total)	mg/L	every 6 days	61	2.04	6.97	15	4.9	yes
phosphorus (total)	mg/L	every 6 days	61	0.06	0.92	0.4	0.22	yes
total suspended solids	mg/L	every 6 days	61	<2	11	10	<2	yes
zinc	ug/L	monthly	12	21	35	180	30	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	116	200	200	143	yes
cadmium	ug/L	monthly	12	<0.1	<0.1	0.2	<0.1	yes
copper	ug/L	monthly	12	1.9	4.7	8	3	yes
hydrogen sulphide (unionised)	ug/L	monthly	12	<30	<30	30	<30	yes
iron	ug/L	monthly	12	113	179	330	151	yes
zinc	ug/L	monthly	12	21	35	60	26	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	60	<0.04	0.19	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
chlorine (total residual)	% Effluent/Vol	monthly	12	7.7	100	50	100	yes