

Penrith Wastewater Treatment Plant

2025-26 Pollution monitoring yearly limit summaries



EPL 1409

Summary period: 01-07-2025 to 30-06-2026

Date published: 20-07-2026

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	3	10	<2	yes
nitrogen (ammonia)	mg/L	every 6 days	26	0.02	1.75	1	0.11	yes
nitrogen (ammonia) ¹	mg/L	every 6 days	35	0.02	0.7	0.9	0.02	yes
nitrogen (total)	mg/L	every 6 days	61	3.35	7.13	6	4.76	yes
phosphorus (total)	mg/L	every 6 days	61	0.030	0.215	0.1	0.052	yes
total suspended solids	mg/L	every 6 days	61	<2	3	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	41	200	14	yes

¹ Penrith LVA resulting in 50th percentile EPL concentration limit change to nitrogen (ammonia) effective 01/12/2025.

Penrith Wastewater Treatment Plant

2025-26 Pollution monitoring yearly limit summaries



EPL 1409

Summary period: 01-07-2025 to 30-06-2026
Date published: 20-07-2026

Licensee: Sydney Water Corporation
PO Box 399
PARRAMATTA NSW 2124

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	90	288	270	242	yes
biochemical oxygen demand	mg/L	every 6 days	61	<2	3	15	<2	yes
cadmium	ug/L	monthly	12	<0.1	<0.1	0.2	<0.1	yes
copper	ug/L	monthly	12	6.2	12.4	9	12.1	no ²
hydrogen sulphide (unionised)	ug/L	monthly	12	<30	<30	60	<30	yes
iron	ug/L	monthly	12	84	254	350	233	yes
nitrogen (ammonia)	mg/L	every 6 days	26	0.02	1.75	5	0.48	yes
nitrogen (ammonia) ³	mg/L	every 6 days	35	0.02	0.7	1.4	0.03	yes
nitrogen (total)	mg/L	every 6 days	61	3.35	7.13	15	5.96	yes
phosphorus (total)	mg/L	every 6 days	61	0.030	0.215	0.4	0.119	yes
total suspended solids	mg/L	every 6 days	61	<2	3	10	2	yes
zinc	ug/L	monthly	12	29	52	180	43	yes

² Copper 90th percentile EPL concentration limit exceeded for 2025-26.

³ Penrith LVA resulting in 90th percentile EPL concentration limit change to nitrogen (ammonia) effective 01/12/2025.

Penrith Wastewater Treatment Plant

2025-26 Pollution monitoring yearly limit summaries



EPL 1409

Summary period: 01-07-2025 to 30-06-2026
Date published: 20-07-2026

Licensee: Sydney Water Corporation
PO Box 399
PARRAMATTA NSW 2124

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	90	288	200	154	yes
cadmium	ug/L	monthly	12	<0.1	<0.1	0.2	<0.1	yes
copper	ug/L	monthly	12	6.2	12.4	8	8.5	no ⁴
hydrogen sulphide (unionised)	ug/L	monthly	12	<30	<30	30	<30	yes
iron	ug/L	monthly	12	84	254	330	167	yes
zinc	ug/L	monthly	12	29	52	60	39	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 during discharge	61	<0.04	0.86	0.1	<0.04	yes

50 percentile yearly summary								
EPA Point 22 Site code PR0022		Point description: Disinfected plant effluent quality 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
ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	12	<6.3	100	50	100	yes

⁴ Copper average EPL concentration limit exceeded for 2025-26.