

Castle Hill Wastewater Treatment Plant

2025-26 Pollution monitoring yearly limit summaries



EPL 1725

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

Date published: 22-07-2026

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

50 percentile yearly summary								
EPA Point 5 Site code CH0005		Point description: In the channel between the tertiary filters and the disinfection facilities						
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	10	7	<2	yes
nitrogen (ammonia)	mg/L	every 6 days	61	<0.01	6.81	0.9	0.11	yes
nitrogen (total)	mg/L	every 6 days	61	4.07	18.6	6	11.8	no ¹
phosphorus (total)	mg/L	every 6 days	61	0.035	0.325	0.1	0.096	yes
total suspended solids	mg/L	every 6 days	61	<2	5	5	<2	yes

¹ Nitrogen (total) 50th percentile EPL concentration limit exceeded for 2025-26.

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90 percentile yearly summary								
EPA Point 5 Site code CH0005		Point description: In the channel between the tertiary filters and the disinfection facilities						
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	62	154	400	151	yes
biochemical oxygen demand	mg/L	every 6 days	61	<2	10	10	<2	yes
cadmium	ug/L	monthly	12	<0.1	<0.1	0.2	<0.1	yes
copper	ug/L	monthly	12	3.8	9.6	11	8.9	yes
diazinon	ug/L	monthly	12	<0.1	<0.1	0.1	<0.1	yes
iron	ug/L	monthly	12	17	63	1,100	56	yes
nitrogen (ammonia)	mg/L	every 6 days	61	<0.01	6.81	1.4	0.92	yes
nitrogen (total)	mg/L	every 6 days	61	4.07	18.6	25	16.4	yes
phosphorus (total)	mg/L	every 6 days	61	0.035	0.325	1	0.173	yes
total suspended solids	mg/L	every 6 days	61	<2	5	10	<2	yes
zinc	ug/L	monthly	12	11	24	37	23	yes

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Average yearly summary								
EPA Point 5 Site code CH0005		Point description: In the channel between the tertiary filters and the disinfection facilities						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	Average Limit	Average value	within limits
aluminium	ug/L	monthly	12	62	154	160	121	yes
cadmium	ug/L	monthly	12	<0.1	<0.1	0.2	<0.1	yes
copper	ug/L	monthly	12	3.8	9.6	8	6.4	yes
diazinon	ug/L	monthly	12	<0.1	<0.1	0.2	<0.1	yes
iron	ug/L	monthly	12	17	63	360	38	yes
zinc	ug/L	monthly	12	11	24	29	20	yes

50 percentile yearly summary								
EPA Point 6 Site code CH0006		Point description: At the outlet from the STP disinfection facilities						
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	30.8	100	50	100	yes

80 percentile yearly summary								
EPA Point 6 Site code CH0006		Point description: At the outlet from the STP disinfection facilities						
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	5,300	200	43	yes

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90 percentile yearly summary								
EPA Point 6 Site code CH0006		Point description: At the outlet from the STP disinfection facilities						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	90 percentile limit	90 percentile value	within limits
hydrogen sulphide (unionised)	ug/L	monthly	12	<30	<30	60	<30	yes

Average yearly summary								
EPA Point 6 Site code CH0006		Point description: At the outlet from the STP disinfection facilities						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	Average Limit	Average value	within limits
hydrogen sulphide (unionised)	ug/L	monthly	12	<30	<30	30	<30	yes