

Castle Hill Wastewater Treatment Plant

2016-17 Pollution monitoring yearly limit summaries



EPL 1725

Summary period: 01-07-2016 to 30-06-2017

Date published: 11-08-2017

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
carbonaceous biochemical oxygen demand	mg/L	every 6 days	61	<2	5	7	<2	yes
nitrogen (ammonia)	mg/L	every 6 days	61	<0.01	0.92	1	0.05	yes
nitrogen (total)	mg/L	every 6 days	61	5.81	19.4	20	16.4	yes
phosphorus (total)	mg/L	every 6 days	61	0.05	0.33	0.3	0.16	yes
total suspended solids	mg/L	every 6 days	61	<2	8	7	<2	yes

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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	31	233	6,400	125	yes
cadmium	ug/L	monthly	12	<0.1	<0.1	9.8	<0.1	yes
carbonaceous biochemical oxygen demand	mg/L	every 6 days	61	<2	5	10	<2	yes
cobalt	ug/L	monthly	12	0.2	0.7	4.2	0.6	yes
copper	ug/L	monthly	12	4	6.5	89	5.9	yes
diazinon	ug/L	monthly	12	<0.1	<0.1	1.5	<0.1	yes
iron	ug/L	monthly	12	28	117	3,000	74	yes
nitrogen (ammonia)	mg/L	every 6 days	61	<0.01	0.92	5	0.33	yes
nitrogen (total)	mg/L	every 6 days	61	5.81	19.4	25	18.5	yes
phosphorus (total)	mg/L	every 6 days	61	0.05	0.33	1	0.26	yes
total suspended solids	mg/L	every 6 days	61	<2	8	10	<2	yes
zinc	ug/L	monthly	12	8	18	90	18	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	31	233	640	80	yes
cadmium	ug/L	monthly	12	<0.1	<0.1	0.5	<0.1	yes
cobalt	ug/L	monthly	12	0.2	0.7	1.4	0.4	yes
copper	ug/L	monthly	12	4	6.5	24	5	yes
diazinon	ug/L	monthly	12	<0.1	<0.1	0.3	<0.1	yes
iron	ug/L	monthly	12	28	117	360	53	yes
zinc	ug/L	monthly	12	8	18	40	13	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	>100	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	65,000	200	12	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	480	<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	92	<30	yes