Castle Hill Wastewater Treatment Plant June Pollution Monitoring Summary



EPL 1725

Summary period: 01-06-2020 to 30-06-2020 Date obtained: 08-07-2020 Date published: 20-07-2020 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 5 Site code CH0005		Point description: In the channel between the tertiary filters and the disinfection facilities					
pollutant	unit of sampling measure frequency 3DGM limit 3DGM Actual within limits						
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	yes		
total suspended solids	mg/L	monthly	30	<2	yes		

3 Day Geometric Mean (3DGM) is a way to average a set of values and is commonly used with water quality assessments which show a great deal of variability. 3DGM is calculated by multiplying the results of the analysis of three samples collected on three consecutive days and then taking the cubed root of that amount.

Table 2: Routine monitoring data

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	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	103
cadmium	ug/L	monthly	1	-	-	<0.1
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2
cobalt	ug/L	monthly	1	-	-	0.3
copper	ug/L	monthly	1	-	-	12.3
diazinon	ug/L	monthly	1	-	-	<0.1
iron	ug/L	monthly	1	-	-	36
nitrogen (ammonia)	mg/L	every 6 days	5	0.02	0.46	1.13
nitrogen (total)	mg/L	every 6 days	5	16.5	17.96	18.6
phosphorus (total)	mg/L	every 6 days	5	0.15	0.18	0.24
total suspended solids	mg/L	every 6 days	5	<2	<2	<2
zinc	ug/L	monthly	1	-	-	16

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	mean result	maximum result
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100
faecal coliforms	CFU/100mL	every 6 days	5	1	6	11
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30

Castle Hill Wastewater Treatment Plant May Pollution Monitoring Summary⁻



EPL 1725[.]

Summary period: 01-05-2020 to 31-05-2020Á Date obtained: 05-06-2020Á Date published: 1Ï -06-2020Á Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 5 Site code CH0005		Point description: In the channel between the tertiary filters and the disinfection facilities					
pollutant	unit of sampling measure frequency 3DGM limit 3DGM Actual within limits						
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	yes		
total suspended solids	mg/L	monthly	30	<2	yes		

3 Day Geometric Mean (3DGM) is a way to average a set of values and is commonly used with water quality assessments which show a great deal of variability. 3DGM is calculated by multiplying the results of the analysis of three samples collected on three consecutive days and then taking the cubed root of that amount.

Table 2: Routine monitoring data

EPA Point 5 Site code CH0005	Point descrip disinfection fa		the channel between the tertiary filters and the				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result	
aluminium	ug/L	monthly	1	-	-	72	
cadmium	ug/L	monthly	1	-	-	<0.1	
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2	
cobalt	ug/L	monthly	1	-	-	0.2	
copper	ug/L	monthly	1	-	-	9.3	
diazinon	ug/L	monthly	1	-	-	<0.1	
iron	ug/L	monthly	1	-	-	47	
nitrogen (ammonia)	mg/L	every 6 days	5	0.03	0.14	0.34	
nitrogen (total)	mg/L	every 6 days	5	11.7	15.96	18.2	
phosphorus (total)	mg/L	every 6 days	5	0.09	0.13	0.16	
total suspended solids	mg/L	every 6 days	5	<2	<2	<2	
zinc	ug/L	monthly	1	-	-	15	
EPA Point 6							

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	mean result	maximum result
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100
faecal coliforms	CFU/100mL	every 6 days	5	3	13	49
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30

Castle Hill Wastewater Treatment Plant April Pollution Monitoring Summary



EPL 1725

Summary period: 01-04-2020 to 30-04-2020 Date obtained: 05-05-2020 Date published: 15-05-2020 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 5 Site code CH0005		Point description: In the channel between the tertiary filters and the disinfection facilities					
pollutant	unit of sampling measure frequency 3DGM limit 3DGM Actual within limits						
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	yes		
total suspended solids	mg/L	monthly	30	<2	yes		

3 Day Geometric Mean (3DGM) is a way to average a set of values and is commonly used with water quality assessments which show a great deal of variability. 3DGM is calculated by multiplying the results of the analysis of three samples collected on three consecutive days and then taking the cubed root of that amount.

Table 2: Routine monitoring data

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	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	65
cadmium	ug/L	monthly	1	-	-	<0.1
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2
cobalt	ug/L	monthly	1	-	-	0.3
copper	ug/L	monthly	1	-	-	9.4
diazinon	ug/L	monthly	1	-	-	<0.1
iron	ug/L	monthly	1	-	-	34
nitrogen (ammonia)	mg/L	every 6 days	5	0.02	0.04	0.09
nitrogen (total)	mg/L	every 6 days	5	12.2	16.24	17.8
phosphorus (total)	mg/L	every 6 days	5	0.06	0.08	0.13
total suspended solids	mg/L	every 6 days	5	<2	<2	<2
zinc	ug/L	monthly	1	-	-	11

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	mean result	maximum result
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100
faecal coliforms	CFU/100mL	every 6 days	5	1	5	9
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30

Castle Hill Wastewater Treatment Plant March Pollution Monitoring Summary



EPL 1725

Summary period: 01-03-2020 to 31-03-2020 Date obtained: 06-04-2020 Date published: 15-04-2020 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 5 Site code CH0005	Point description: In the channel between the tertiary filters and the disinfection facilities						
pollutant	unit of sampling measure frequency 3DGM limit 3DGM Actual within limits						
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	yes		
total suspended solids	mg/L	monthly	30	<2	yes		

3 Day Geometric Mean (3DGM) is a way to average a set of values and is commonly used with water quality assessments which show a great deal of variability. 3DGM is calculated by multiplying the results of the analysis of three samples collected on three consecutive days and then taking the cubed root of that amount.

Table 2: Routine monitoring data

EPA Point 5 Site code CH0005	Point description: In the channel between the tertiary filters and the disinfection facilities					d the
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	81
cadmium	ug/L	monthly	1	-	-	<0.1
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2
cobalt	ug/L	monthly	1	-	-	0.3
copper	ug/L	monthly	1	-	-	5.8
diazinon	ug/L	monthly	1	-	-	<0.1
iron	ug/L	monthly	1	_	-	37
nitrogen (ammonia)	mg/L	every 6 days	5	0.05	0.12	0.21
nitrogen (total)	mg/L	every 6 days	5	10.9	13.66	15.1
phosphorus (total)	mg/L	every 6 days	5	0.03	0.04	0.06
total suspended solids	mg/L	every 6 days	5	<2	<2	<2
zinc	ug/L	monthly	1	-	-	12
EPA Point 6						

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	mean result	maximum result	
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100	
faecal coliforms	CFU/100mL	every 6 days	5	4	16	32	
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30	

Castle Hill Wastewater Treatment Plant February Pollution Monitoring Summary



EPL 1725

Summary period: 01-02-2020 to 29-02-2020 Date obtained: 18-03-2020 Date published: 27-03-2020 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

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	3DGM limit	3DGM Actual	within limits		
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	yes		
total suspended solids	mg/L	monthly	30	<2	yes		

3 Day Geometric Mean (3DGM) is a way to average a set of values and is commonly used with water quality assessments which show a great deal of variability. 3DGM is calculated by multiplying the results of the analysis of three samples collected on three consecutive days and then taking the cubed root of that amount.

Table 2: Routine monitoring data

EPA Point 5 Site code CH0005	Point descrip disinfection fa		nnel between	tween the tertiary filters and the				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result		
aluminium	ug/L	monthly	1	-	-	72		
cadmium	ug/L	monthly	1	-	-	<0.1		
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2		
cobalt	ug/L	monthly	1	-	-	0.3		
copper	ug/L	monthly	1	-	-	5.9		
diazinon	ug/L	monthly	1	-	-	<0.1		
iron	ug/L	monthly	1	_	-	35		
nitrogen (ammonia)	mg/L	every 6 days	5	0.03	0.09	0.22		
nitrogen (total)	mg/L	every 6 days	5	5.53	11.38	16		
phosphorus (total)	mg/L	every 6 days	5	0.03	0.08	0.13		
total suspended solids	mg/L	every 6 days	5	<2	<2	<2		
zinc	ug/L	monthly	1	-	-	15		
EPA Point 6								

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	mean result	maximum result	
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100	
faecal coliforms	CFU/100mL	every 6 days	5	10	20065	100,000	
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30	

Castle Hill Wastewater Treatment Plant January Pollution Monitoring Summary



EPL 1725

Summary period: 01-01-2020 to 31-01-2020 Date obtained: 05-02-2020 Date published: 14-02-2020 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 5 Site code CH0005	Point description: In the channel between the tertiary filters and the disinfection facilities						
pollutant	unit of measuresampling frequency3DGM limit3DGM Actualwithin limits						
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	yes		
total suspended solids	mg/L	monthly	30	<2	yes		

3 Day Geometric Mean (3DGM) is a way to average a set of values and is commonly used with water quality assessments which show a great deal of variability. 3DGM is calculated by multiplying the results of the analysis of three samples collected on three consecutive days and then taking the cubed root of that amount.

Table 2: Routine monitoring data

EPA Point 5 Site code CH0005		nt description: In the channel between the tertiary filters and the nfection facilities				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	46
cadmium	ug/L	monthly	1	-	-	<0.1
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2
cobalt	ug/L	monthly	1	-	-	0.2
copper	ug/L	monthly	1	-	-	8.1
diazinon	ug/L	monthly	1	-	-	<0.1
iron	ug/L	monthly	1	-	-	33
nitrogen (ammonia)	mg/L	every 6 days	5	0.04	0.07	0.1
nitrogen (total)	mg/L	every 6 days	5	15.8	16.92	18.5
phosphorus (total)	mg/L	every 6 days	5	0.07	0.1	0.15
total suspended solids	mg/L	every 6 days	5	<2	<2	<2
zinc	ug/L	monthly	1	-	-	14

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	mean result	maximum result	
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100	
faecal coliforms	CFU/100mL	every 6 days	5	14	193	430	
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30	

Castle Hill Wastewater Treatment Plant December Pollution Monitoring Summary



EPL 1725

Summary period: 01-12-2019 to 31-12-2019 Date obtained: 06-01-2020 Date published: 10-01-2020 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 5 Site code CH0005	Point description: In the channel between the tertiary filters and the disinfection facilities						
pollutant	unit of sampling measure frequency 3DGM limit 3DGM Actual within limits						
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	yes		
total suspended solids	mg/L	monthly	30	<2	yes		

3 Day Geometric Mean (3DGM) is a way to average a set of values and is commonly used with water quality assessments which show a great deal of variability. 3DGM is calculated by multiplying the results of the analysis of three samples collected on three consecutive days and then taking the cubed root of that amount.

Table 2: Routine monitoring data

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	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	95
cadmium	ug/L	monthly	1	-	-	<0.1
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2
cobalt	ug/L	monthly	1	-	-	0.3
copper	ug/L	monthly	1	-	-	7.6
diazinon	ug/L	monthly	1	_	-	<0.1
iron	ug/L	monthly	1	-	-	51
nitrogen (ammonia)	mg/L	every 6 days	5	0.04	0.09	0.16
nitrogen (total)	mg/L	every 6 days	5	17.3	19.06	20.5
phosphorus (total)	mg/L	every 6 days	5	0.08	0.09	0.11
total suspended solids	mg/L	every 6 days	5	<2	<2	<2
zinc	ug/L	monthly	1	-	-	15
EPA Point 6						

EPA Point 6 Site code CH0006	Point descript	Point description: At the outlet from the STP disinfection facilities						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result		
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100		
faecal coliforms	CFU/100mL	every 6 days	5	37	158	520		
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30		

Castle Hill Wastewater Treatment Plant November Pollution Monitoring Summary



EPL 1725

Summary period: 01-11-2019 to 30-11-2019 Date obtained: 06-12-2019 Date published: 12-12-2019 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 5 Site code CH0005	Point description: In the channel between the tertiary filters and the disinfection facilities						
pollutant	unit of sampling measure frequency 3DGM limit 3DGM Actual within limits						
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	yes		
total suspended solids	mg/L	monthly	30	<2	yes		

3 Day Geometric Mean (3DGM) is a way to average a set of values and is commonly used with water quality assessments which show a great deal of variability. 3DGM is calculated by multiplying the results of the analysis of three samples collected on three consecutive days and then taking the cubed root of that amount.

Table 2: Routine monitoring data

EPA Point 5 Site code CH0005	Point description: In the channel between the tertiary filters disinfection facilities					rs and the	
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result	
aluminium	ug/L	monthly	1	-	-	43	
cadmium	ug/L	monthly	1	-	-	<0.1	
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2	
cobalt	ug/L	monthly	1	-	-	0.2	
copper	ug/L	monthly	1	-	-	5.3	
diazinon	ug/L	monthly	1	-	-	<0.1	
iron	ug/L	monthly	1	-	-	29	
nitrogen (ammonia)	mg/L	every 6 days	5	0.03	0.06	0.12	
nitrogen (total)	mg/L	every 6 days	5	17	17.86	18.4	
phosphorus (total)	mg/L	every 6 days	5	0.05	0.06	0.08	
total suspended solids	mg/L	every 6 days	5	<2	<2	<2	
zinc	ug/L	monthly	1	-	-	13	
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	mean result	maximum result	
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100	
faecal coliforms	CFU/100mL	every 6 days	5	5	27	56	
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30	

Castle Hill Wastewater Treatment Plant October Pollution Monitoring Summary



EPL 1725

Summary period: 01-10-2019 to 31-10-2019 Date obtained: 12-11-2019 Date published: 22-11-2019 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 5 Site code CH0005	Point description: In the channel between the tertiary filters and the disinfection facilities						
pollutant	unit of sampling 3DGM limit 3DGM Actual within limits						
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	yes		
total suspended solids	mg/L	monthly	30	<2	yes		

3 Day Geometric Mean (3DGM) is a way to average a set of values and is commonly used with water quality assessments which show a great deal of variability. 3DGM is calculated by multiplying the results of the analysis of three samples collected on three consecutive days and then taking the cubed root of that amount.

Table 2: Routine monitoring data

EPA Point 5 Site code CH0005	Point descrip disinfection fa	iption: In the channel between the tertiary filters and the facilities				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	32
cadmium	ug/L	monthly	1	-	-	<0.1
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2
cobalt	ug/L	monthly	1	-	-	0.2
copper	ug/L	monthly	1	-	-	7.8
diazinon	ug/L	monthly	1	-	-	<0.1
iron	ug/L	monthly	1	-	-	26
nitrogen (ammonia)	mg/L	every 6 days	5	0.02	0.03	0.04
nitrogen (total)	mg/L	every 6 days	5	15.6	17.82	19.1
phosphorus (total)	mg/L	every 6 days	5	0.06	0.11	0.19
total suspended solids	mg/L	every 6 days	5	<2	<2	2
zinc	ug/L	monthly	1	-	-	19

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	mean result	maximum result	
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100	
faecal coliforms	CFU/100mL	every 6 days	6	3	15	38	
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30	

Castle Hill Wastewater Treatment Plant September Pollution Monitoring Summary



EPL 1725

Summary period: 01-09-2019 to 30-09-2019 Date obtained: 10-10-2019 Date published: 15-10-2019 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 5 Site code CH0005	Point description: In the channel between the tertiary filters and the disinfection facilities						
pollutant	unit of sampling measure frequency 3DGM limit 3DGM Actual within limits						
carbonaceous biochemical oxygen demand	mg/L	monthly	30	3	yes		
total suspended solids	mg/L	monthly	30	9	yes		

3 Day Geometric Mean (3DGM) is a way to average a set of values and is commonly used with water quality assessments which show a great deal of variability. 3DGM is calculated by multiplying the results of the analysis of three samples collected on three consecutive days and then taking the cubed root of that amount.

Table 2: Routine monitoring data

EPA Point 5 Site code CH0005	Point descrip disinfection fa		nnel between	between the tertiary filters and the				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result		
aluminium	ug/L	monthly	1	-	-	588		
cadmium	ug/L	monthly	1	-	-	<0.1		
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	4		
cobalt	ug/L	monthly	1	-	-	0.3		
copper	ug/L	monthly	1	-	-	18.3		
diazinon	ug/L	monthly	1	-	-	<0.1		
iron	ug/L	monthly	1	-	-	1,940		
nitrogen (ammonia)	mg/L	every 6 days	5	0.01	0.04	0.08		
nitrogen (total)	mg/L	every 6 days	5	5.53	14.65	18.6		
phosphorus (total)	mg/L	every 6 days	5	0.04	0.17	0.45		
total suspended solids	mg/L	every 6 days	5	<2	5	24		
zinc	ug/L	monthly	1	-	-	23		

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	mean result	maximum result	
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100	
faecal coliforms	CFU/100mL	every 6 days	5	3	3420	17,000	
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30	

Castle Hill Wastewater Treatment Plant August Pollution Monitoring Summary



EPL 1725

Summary period: 01-08-2019 to 31-08-2019 Date obtained: 09-09-2019 Date published: 16-09-2019 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

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	3DGM limit	3DGM Actual	within limits		
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	yes		
total suspended solids	mg/L	monthly	30	<2	yes		

3 Day Geometric Mean (3DGM) is a way to average a set of values and is commonly used with water quality assessments which show a great deal of variability. 3DGM is calculated by multiplying the results of the analysis of three samples collected on three consecutive days and then taking the cubed root of that amount.

Table 2: Routine monitoring data

EPA Point 5 Site code CH0005		Point description: In the channel between the tertiary filters and the isinfection facilities				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	44
cadmium	ug/L	monthly	1	-	-	<0.1
carbonaceous biochemical oxygen demand	mg/L	every 6 days	6	<2	<2	<2
cobalt	ug/L	monthly	1	-	-	0.3
copper	ug/L	monthly	1	-	-	6.4
diazinon	ug/L	monthly	1	-	-	<0.1
iron	ug/L	monthly	1	-	-	39
nitrogen (ammonia)	mg/L	every 6 days	6	0.02	0.09	0.2
nitrogen (total)	mg/L	every 6 days	6	9.19	16.92	19.6
phosphorus (total)	mg/L	every 6 days	6	0.13	0.24	0.28
total suspended solids	mg/L	every 6 days	6	<2	<2	<2
zinc	ug/L	monthly	1	-	-	21
EPA Point 6						

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	mean result	maximum result	
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100	
faecal coliforms	CFU/100mL	every 6 days	5	<1	2	5	
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30	

Castle Hill Wastewater Treatment Plant July Pollution Monitoring Summary



EPL 1725

Summary period: 01-07-2019 to 31-07-2019 Date obtained: 07-08-2019 Date published: 17-08-2019 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

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	3DGM limit	3DGM Actual	within limits		
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	yes		
total suspended solids	mg/L	monthly	30	3	yes		

3 Day Geometric Mean (3DGM) is a way to average a set of values and is commonly used with water quality assessments which show a great deal of variability. 3DGM is calculated by multiplying the results of the analysis of three samples collected on three consecutive days and then taking the cubed root of that amount.

Table 2: Routine monitoring data

EPA Point 5 Site code CH0005	Point descrip disinfection fa		nnel between	n the tertiary filters and the				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result		
aluminium	ug/L	monthly	1	-	-	115		
cadmium	ug/L	monthly	1	-	-	<0.1		
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2		
cobalt	ug/L	monthly	1	-	-	0.3		
copper	ug/L	monthly	1	-	-	6.6		
diazinon	ug/L	monthly	1	-	-	<0.1		
iron	ug/L	monthly	1	-	-	64		
nitrogen (ammonia)	mg/L	every 6 days	5	0.06	0.24	0.61		
nitrogen (total)	mg/L	every 6 days	5	14	17.84	20.4		
phosphorus (total)	mg/L	every 6 days	5	0.16	0.23	0.3		
total suspended solids	mg/L	every 6 days	5	<2	<2	9		
zinc	ug/L	monthly	1	-	-	16		
EPA Point 6								

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	mean result	maximum result	
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100	
faecal coliforms	CFU/100mL	every 6 days	5	<1	4	8	
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30	