Winmalee Wastewater Treatment Plant June Pollution Monitoring Summary



EPL 1963

Summary period: 01-06-2021 to 30-06-2021 Date obtained: 09-07-2021 Date published: 20-07-2021 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 4 Site code WM0004	Point description: Downstream of the chamber prior to discharge						
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits		
biochemical oxygen demand	mg/L	monthly	30	<2	yes		
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	yes		
total suspended solids	mg/L	monthly	10	<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 4 Site code WM0004	Point description: Downstream of the chamber prior to discharge						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result	
aluminium	ug/L	monthly	1	-	-	6	
biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2	
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2	
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100	
chlorine (total residual)	mg/L	every 6 days	5	<0.04	<0.04	<0.04	
copper	ug/L	monthly	1	-	-	4.6	
diazinon	ug/L	monthly	1	-	-	<0.1	
faecal coliforms	CFU/100mL	every 6 days	5	<1	<1	1	
iron	ug/L	monthly	1	-	-	70	
nitrogen (ammonia)	mg/L	every 6 days	5	0.01	0.18	0.65	
nitrogen (total)	mg/L	every 6 days	5	7.61	9.19	10.5	
phosphorus (total)	mg/L	every 6 days	5	0.15	0.17	0.22	
total suspended solids	mg/L	every 6 days	5	<2	<2	<2	
zinc	ug/L	monthly	1	-	-	18	

Average and percentile limits are only applied annually for routine monitoring data in Table 2.

Effluent quality monitoring results obtained from EPA Point 4 are used to indicate the quality of water discharged at EPA Point 1

(discharge to waters).

Winmalee Wastewater Treatment Plant May Pollution Monitoring Summary



EPL 1963

Summary period: 01-05-2021 to 31-05-2021 Date obtained: 09-06-2021 Date published: 21-06-2021 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 4 Site code WM0004	Point description: Downstream of the chamber prior to discharge						
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits		
biochemical oxygen demand	mg/L	monthly	30	<2	yes		
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	yes		
total suspended solids	mg/L	monthly	10	<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 4 Site code WM0004	Point description: Downstream of the chamber prior to discharge						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result	
aluminium	ug/L	monthly	1	-	-	<5	
biochemical oxygen demand	mg/L	every 6 days	6	<2	<2	4	
carbonaceous biochemical oxygen demand	mg/L	every 6 days	6	<2	<2	2	
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100	
chlorine (total residual)	mg/L	every 6 days	5	<0.04	<0.04	<0.04	
copper	ug/L	monthly	1	-	-	5.3	
diazinon	ug/L	monthly	1	-	-	<0.1	
faecal coliforms	CFU/100mL	every 6 days	5	<1	<1	1	
iron	ug/L	monthly	1	_	-	78	
nitrogen (ammonia)	mg/L	every 6 days	6	0.34	1.63	3.65	
nitrogen (total)	mg/L	every 6 days	6	6.43	8.59	11.4	
phosphorus (total)	mg/L	every 6 days	6	0.19	0.23	0.27	
total suspended solids	mg/L	every 6 days	6	<2	<2	3	
zinc	ug/L	monthly	1	-	-	21	

Average and percentile limits are only applied annually for routine monitoring data in Table 2.

Winmalee Wastewater Treatment Plant April Pollution Monitoring Summary



EPL 1963

Summary period: 01-04-2021 to 30-04-2021 Date obtained: 07-05-2021 Date published: 17-05-2021 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 4 Site code WM0004	Point description: Downstream of the chamber prior to discharge						
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits		
biochemical oxygen demand	mg/L	monthly	30	<2	yes		
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	yes		
total suspended solids	mg/L	monthly	10	<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 4 Site code WM0004	Point description: Downstream of the chamber prior to discharge						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result	
aluminium	ug/L	monthly	1	-	-	<5	
biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2	
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2	
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100	
chlorine (total residual)	mg/L	every 6 days	5	<0.04	<0.04	<0.04	
copper	ug/L	monthly	1	-	-	4.4	
diazinon	ug/L	monthly	1	-	-	<0.1	
faecal coliforms	CFU/100mL	every 6 days	5	<1	1261	6,300	
iron	ug/L	monthly	1	-	-	90	
nitrogen (ammonia)	mg/L	every 6 days	5	0.06	1.2	2.25	
nitrogen (total)	mg/L	every 6 days	5	6.15	7.94	8.85	
phosphorus (total)	mg/L	every 6 days	5	0.1	0.17	0.27	
total suspended solids	mg/L	every 6 days	5	<2	<2	<2	
zinc	ug/L	monthly	1	-	-	15	

Average and percentile limits are only applied annually for routine monitoring data in Table 2.

Winmalee Wastewater Treatment Plant March Pollution Monitoring Summary



EPL 1963

Summary period: 01-03-2021 to 31-03-2021 Date obtained: 06-04-2021 Date published: 16-04-2021 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 4 Site code WM0004	Point description: Downstream of the chamber prior to discharge						
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits		
biochemical oxygen demand	mg/L	monthly	30	10	yes		
carbonaceous biochemical oxygen demand	mg/L	monthly	30	3	yes		
total suspended solids	mg/L	monthly	10	13	¹ no		

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 4 Site code WM0004	Point description: Downstream of the chamber prior to discharge						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result	
aluminium	ug/L	monthly	1	-	-	207	
biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	7	
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	3	
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100	
chlorine (total residual)	mg/L	every 6 days	5	<0.04	<0.04	<0.04	
copper	ug/L	monthly	1	-	-	7.6	
diazinon	ug/L	monthly	1	-	-	<0.1	
faecal coliforms	CFU/100mL	every 6 days	5	<1	382	1,900	
iron	ug/L	monthly	1	-	-	1,200	
nitrogen (ammonia)	mg/L	every 6 days	5	0.14	0.71	1.26	
nitrogen (total)	mg/L	every 6 days	5	4.82	6.25	7.96	
phosphorus (total)	mg/L	every 6 days	5	0.13	0.25	0.36	
total suspended solids	mg/L	every 6 days	5	<2	2	11	
zinc	ug/L	monthly	1	-	-	26	

Average and percentile limits are only applied annually for routine monitoring data in Table 2.

¹Under condition L3.5 in the Environment Protection Licence 2269, as set by the NSW Environment Protection Authority, when a wet weather bypass flow is occurring, exceedances of the 3DGM concentration limit in condition L3.4 are permitted at point 4 for the duration of the bypass where the bypass was the sole cause of the exceedance. Wet weather flows between 19-22 March was the sole cause of the 3DGM exceedance.

Winmalee Wastewater Treatment Plant February Pollution Monitoring Summary



EPL 1963

Summary period: 01-02-2021 to 28-02-2021 Date obtained: 07-03-2021 Date published: 17-03-2021 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 4 Site code WM0004	Point description: Downstream of the chamber prior to discharge						
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits		
biochemical oxygen demand	mg/L	monthly	30	<2	yes		
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	yes		
total suspended solids	mg/L	monthly	10	<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 4 Site code WM0004	Point description: Downstream of the chamber prior to discharge						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result	
aluminium	ug/L	monthly	1	-	-	5	
biochemical oxygen demand	mg/L	every 6 days	4	<2	<2	<2	
carbonaceous biochemical oxygen demand	mg/L	every 6 days	4	<2	<2	<2	
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100	
chlorine (total residual)	mg/L	every 6 days	5	<0.04	<0.04	<0.04	
copper	ug/L	monthly	1	-	-	4.1	
diazinon	ug/L	monthly	1	-	-	<0.1	
faecal coliforms	CFU/100mL	every 6 days	5	1	107	430	
iron	ug/L	monthly	1	-	-	42	
nitrogen (ammonia)	mg/L	every 6 days	4	0.01	0.01	0.02	
nitrogen (total)	mg/L	every 6 days	4	4.93	5.78	6.5	
phosphorus (total)	mg/L	every 6 days	4	0.22	0.23	0.24	
total suspended solids	mg/L	every 6 days	4	<2	<2	<2	
zinc	ug/L	monthly	1	-	-	13	

Average and percentile limits are only applied annually for routine monitoring data in Table 2.

Winmalee Wastewater Treatment Plant January Pollution Monitoring Summary



EPL 1963

Summary period: 01-01-2021 to 31-01-2021 Date obtained: 14-02-2021 Date published: 23-02-2021 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 4 Site code WM0004	Point description: Downstream of the chamber prior to discharge						
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits		
biochemical oxygen demand	mg/L	monthly	30	<2	yes		
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	yes		
total suspended solids	mg/L	monthly	10	<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 4 Site code WM0004	Point description: Downstream of the chamber prior to discharge						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result	
aluminium	ug/L	monthly	1	-	-	<5	
biochemical oxygen demand	mg/L	every 6 days	6	<2	<2	<2	
carbonaceous biochemical oxygen demand	mg/L	every 6 days	6	<2	<2	<2	
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100	
chlorine (total residual)	mg/L	every 6 days	5	<0.04	<0.04	<0.04	
cobalt	ug/L	bi-annually	1	-	-	0.8	
copper	ug/L	monthly	1	-	-	5.4	
diazinon	ug/L	monthly	1	-	-	<0.1	
faecal coliforms	CFU/100mL	every 6 days	5	<1	1	3	
iron	ug/L	monthly	1	-	-	70	
nitrogen (ammonia)	mg/L	every 6 days	6	0.01	0.59	1.77	
nitrogen (total)	mg/L	every 6 days	6	5.31	6.44	7.23	
phosphorus (total)	mg/L	every 6 days	6	0.18	0.32	0.42	
total suspended solids	mg/L	every 6 days	6	<2	<2	<2	
zinc	ug/L	monthly	1	-	-	14	

Average and percentile limits are only applied annually for routine monitoring data in Table 2.

Winmalee Wastewater Treatment Plant December Pollution Monitoring Summary



EPL 1963

Summary period: 01-12-2020 to 31-12-2020 Date obtained: 06-01-2021 Date published: 18-01-2021 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 4 Site code WM0004	Point description: Downstream of the chamber prior to discharge						
pollutant	unit of measure	3DGM limit 3DGM Actual w					
biochemical oxygen demand	mg/L	monthly	30	<2	yes		
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	yes		
total suspended solids	mg/L	monthly	10	<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 4 Site code WM0004	Point description: Downstream of the chamber prior to discharge						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result	
aluminium	ug/L	monthly	1	-	-	<5	
biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2	
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2	
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100	
chlorine (total residual)	mg/L	every 6 days	5	<0.04	<0.04	<0.04	
copper	ug/L	monthly	1	-	-	3.6	
diazinon	ug/L	monthly	1	-	-	<0.1	
faecal coliforms	CFU/100mL	every 6 days	5	<1	<1	1	
iron	ug/L	monthly	1	-	-	147	
nitrogen (ammonia)	mg/L	every 6 days	5	0.14	0.77	2.48	
nitrogen (total)	mg/L	every 6 days	5	6.09	8.19	9.08	
phosphorus (total)	mg/L	every 6 days	5	0.13	0.31	0.42	
total suspended solids	mg/L	every 6 days	5	<2	<2	<2	
zinc	ug/L	monthly	1	-	-	13	

Average and percentile limits are only applied annually for routine monitoring data in Table 2.

Winmalee Wastewater Treatment Plant November Pollution Monitoring Summary



EPL 1963

Summary period: 01-11-2020 to 30-11-2020 Date obtained: 10-12-2020 Date published: 15-12-2020 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 4 Site code WM0004	Point description: Downstream of the chamber prior to discharge							
pollutant	unit of measure	sampling frequency						
biochemical oxygen demand	mg/L	monthly	30	<2	yes			
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	yes			
total suspended solids	mg/L	monthly	10	<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 4 Site code WM0004	Point description: Downstream of the chamber prior to discharge					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	<5
biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100
chlorine (total residual)	mg/L	every 6 days	5	<0.04	<0.04	<0.04
copper	ug/L	monthly	1	-	-	5.5
diazinon	ug/L	monthly	1	-	-	<0.1
faecal coliforms	CFU/100mL	every 6 days	5	<1	1	3
iron	ug/L	monthly	1	-	-	80
nitrogen (ammonia)	mg/L	every 6 days	5	0.01	0.02	0.05
nitrogen (total)	mg/L	every 6 days	5	5.85	7.69	9.14
phosphorus (total)	mg/L	every 6 days	5	0.25	0.31	0.38
total suspended solids	mg/L	every 6 days	5	<2	<2	<2
zinc	ug/L	monthly	1	-	-	14

Average and percentile limits are only applied annually for routine monitoring data in Table 2.

Winmalee Wastewater Treatment Plant October Pollution Monitoring Summary



EPL 1963

Summary period: 01-10-2020 to 31-10-2020 Date obtained: 05-11-2020 Date published: 13-11-2020 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 4 Site code WM0004	Point description: Downstream of the chamber prior to discharge							
pollutant	unit of measure	sampling frequency	· · · · · · · · · · · · · · · · · · ·					
biochemical oxygen demand	mg/L	monthly	30	<2	yes			
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	yes			
total suspended solids	mg/L	monthly	10	<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 4 Site code WM0004	Point description: Downstream of the chamber prior to discharge					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	<5
biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100
chlorine (total residual)	mg/L	every 6 days	5	<0.04	<0.04	<0.04
copper	ug/L	monthly	1	-	-	7.3
diazinon	ug/L	monthly	1	-	-	<0.1
faecal coliforms	CFU/100mL	every 6 days	5	<1	7	32
iron	ug/L	monthly	1	-	-	60
nitrogen (ammonia)	mg/L	every 6 days	5	0.04	0.43	1.02
nitrogen (total)	mg/L	every 6 days	5	5.33	8.15	9.93
phosphorus (total)	mg/L	every 6 days	5	0.23	0.28	0.32
total suspended solids	mg/L	every 6 days	5	<2	<2	<2
zinc	ug/L	monthly	1	-	-	12

Average and percentile limits are only applied annually for routine monitoring data in Table 2.

Winmalee Wastewater Treatment Plant September Pollution Monitoring Summary



EPL 1963

Summary period: 01-09-2020 to 30-09-2020 Date obtained: 15-10-2020 Date published: 23-10-2020 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 4 Site code WM0004	Point description: Downstream of the chamber prior to discharge							
pollutant	unit of measure	3DGM limit 3DGM Actual Wi						
biochemical oxygen demand	mg/L	monthly	30	<2	yes			
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	yes			
total suspended solids	mg/L	monthly	10	<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 4 Site code WM0004	Point description: Downstream of the chamber prior to discharge					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	<5
biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100
chlorine (total residual)	mg/L	every 6 days	5	<0.04	<0.04	<0.04
copper	ug/L	monthly	1	-	-	5.1
diazinon	ug/L	monthly	1	-	-	<0.1
faecal coliforms	CFU/100mL	every 6 days	5	1	11	42
iron	ug/L	monthly	1	-	-	102
nitrogen (ammonia)	mg/L	every 6 days	5	0.1	1.29	4.62
nitrogen (total)	mg/L	every 6 days	5	7.8	9.14	10
phosphorus (total)	mg/L	every 6 days	5	0.15	0.2	0.29
total suspended solids	mg/L	every 6 days	5	<2	<2	<2
zinc	ug/L	monthly	1	-	-	17

Average and percentile limits are only applied annually for routine monitoring data in Table 2.

Effluent quality monitoring results obtained from EPA Point 4 are used to indicate the quality of water discharged at EPA Point 1 (discharge to waters).

Note: biochemical oxygen demand monitoring commenced from September 2020.

Winmalee Wastewater Treatment Plant August Pollution Monitoring Summary



EPL 1963

Summary period: 01-08-2020 to 31-08-2020 Date obtained: 07-09-2020 Date published: 16-09-2020 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 4 Site code WM0004	Point description: Downstream of the chamber prior to discharge						
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	10	<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 4 Site code WM0004	Point description: Downstream of the chamber prior to discharge					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	<5
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	4
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100
chlorine (total residual)	mg/L	every 6 days	5	<0.04	<0.04	<0.04
copper	ug/L	monthly	1	-	-	4.5
diazinon	ug/L	monthly	1	-	-	<0.1
faecal coliforms	CFU/100mL	every 6 days	5	<1	3	10
iron	ug/L	monthly	1	-	-	72
nitrogen (ammonia)	mg/L	every 6 days	5	0.02	0.7	2.45
nitrogen (total)	mg/L	every 6 days	5	6.53	8.38	10.1
phosphorus (total)	mg/L	every 6 days	5	0.09	0.18	0.49
total suspended solids	mg/L	every 6 days	5	<2	3	14
zinc	ug/L	monthly	1	-	-	13

Average and percentile limits are only applied annually for routine monitoring data in Table 2.

Winmalee Wastewater Treatment Plant July Pollution Monitoring Summary



EPL 1963

Summary period: 01-07-2020 to 31-07-2020 Date obtained: 07-08-2020 Date published: 14-08-2020 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 4 Site code WM0004	Point description: Downstream of the chamber prior to discharge						
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	10	<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 4 Site code WM0004	Point description: Downstream of the chamber prior to discharge					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	<5
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	2
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100
chlorine (total residual)	mg/L	every 6 days	5	<0.04	<0.04	<0.04
cobalt	ug/L	monthly	1	-	-	0.4
copper	ug/L	monthly	1	-	-	6.2
diazinon	ug/L	monthly	1	-	-	<0.1
faecal coliforms	CFU/100mL	every 6 days	5	<1	<1	1
iron	ug/L	monthly	1	-	-	279
nitrogen (ammonia)	mg/L	every 6 days	5	0.02	0.18	0.67
nitrogen (total)	mg/L	every 6 days	5	5.56	8.15	9.3
phosphorus (total)	mg/L	every 6 days	5	0.07	0.08	0.11
total suspended solids	mg/L	every 6 days	5	<2	<2	2
zinc	ug/L	monthly	1	-	-	15

Average and percentile limits are only applied annually for routine monitoring data in Table 2.