

Bombo Wastewater Treatment Plant

June Pollution Monitoring Summary



EPL 2269

Summary period: 01-06-2021 to 30-06-2021

Date obtained: 06-07-2021

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 BO0004		Point description: At the end of the chlorine contact tanks			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
total suspended solids	mg/L	monthly	50	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 4 Site code BO0004		Point description: At the end of the chlorine contact tanks				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	35
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
copper	ug/L	monthly	1	-	-	1.5
diazinon	ug/L	monthly	1	-	-	<0.1
nitrogen (ammonia)	mg/L	monthly	1	-	-	2.3
nonylphenol ethoxylate	ug/L	monthly	1	-	-	<5
total suspended solids	mg/L	every 6 days	5	2	3	4

EPA Point 13 Site code BO0013		Point description: In the channel after the dechlorination unit				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
faecal coliforms	CFU/100mL	every 6 days	5	<1	<1	1
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100

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

Effluent quality monitoring results obtained from EPA Point 4 and 13 are used to indicate the quality of water discharged at EPA Point 1 (discharge to waters).

Bombo Wastewater Treatment Plant

May Pollution Monitoring Summary



EPL 2269

Summary period: 01-05-2021 to 31-05-2021

Date obtained: 08-06-2021

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 BO0004		Point description: At the end of the chlorine contact tanks			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
total suspended solids	mg/L	monthly	50	35	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 BO0004		Point description: At the end of the chlorine contact tanks				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	30
biochemical oxygen demand	mg/L	every 6 days	5	<2	4.2	21
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	4	21
copper	ug/L	monthly	1	-	-	4.1
diazinon	ug/L	monthly	1	-	-	<0.1
nitrogen (ammonia)	mg/L	monthly	1	-	-	16.6
nonylphenol ethoxylate	ug/L	monthly	1	-	-	<5
total suspended solids	mg/L	every 6 days	5	2	8	22

EPA Point 13 Site code BO0013		Point description: In the channel after the dechlorination unit				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
faecal coliforms	CFU/100mL	every 6 days	5	<1	6033	30,000
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100

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

Effluent quality monitoring results obtained from EPA Point 4 and 13 are used to indicate the quality of water discharged at EPA Point 1 (discharge to waters).

Bombo Wastewater Treatment Plant

April Pollution Monitoring Summary



EPL 2269

Summary period: 01-04-2021 to 30-04-2021

Date obtained: 10-05-2021

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 BO0004		Point description: At the end of the chlorine contact tanks			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
total suspended solids	mg/L	monthly	50	4	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 BO0004		Point description: At the end of the chlorine contact tanks				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	33
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
copper	ug/L	monthly	1	-	-	2
diazinon	ug/L	monthly	1	-	-	<0.1
nitrogen (ammonia)	mg/L	monthly	1	-	-	4.2
nonylphenol ethoxylate	ug/L	monthly	1	-	-	<5
total suspended solids	mg/L	every 6 days	5	3	4	7

EPA Point 13 Site code BO0013		Point description: In the channel after the dechlorination unit				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
faecal coliforms	CFU/100mL	every 6 days	5	<1	<1	3
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100

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

Effluent quality monitoring results obtained from EPA Point 4 and 13 are used to indicate the quality of water discharged at

EPA Point 1 (discharge to waters).

Bombo Wastewater Treatment Plant

March Pollution Monitoring Summary



EPL 2269

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 BO0004		Point description: At the end of the chlorine contact tanks			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
total suspended solids	mg/L	monthly	50	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 4 Site code BO0004		Point description: At the end of the chlorine contact tanks				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	17
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
copper	ug/L	monthly	1	-	-	1.7
diazinon	ug/L	monthly	1	-	-	<0.1
nitrogen (ammonia)	mg/L	monthly	1	-	-	0.8
nonylphenol ethoxylate	ug/L	monthly	1	-	-	<5
total suspended solids	mg/L	every 6 days	5	2	4	7

EPA Point 13 Site code BO0013		Point description: In the channel after the dechlorination unit				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
faecal coliforms	CFU/100mL	every 6 days	5	<1	11	30
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100

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

Effluent quality monitoring results obtained from EPA Point 4 and 13 are used to indicate the quality of water discharged at EPA Point 1 (discharge to waters).

Bombo Wastewater Treatment Plant

February Pollution Monitoring Summary



EPL 2269

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 BO0004		Point description: At the end of the chlorine contact tanks			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
total suspended solids	mg/L	monthly	50	16	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 BO0004		Point description: At the end of the chlorine contact tanks				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	841
biochemical oxygen demand	mg/L	every 6 days	5	<2	6.4	32
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	6	29
copper	ug/L	monthly	1	-	-	95.6
diazinon	ug/L	monthly	1	-	-	<0.1
nitrogen (ammonia)	mg/L	monthly	1	-	-	9.3
nonylphenol ethoxylate	ug/L	monthly	1	-	-	<5
total suspended solids	mg/L	every 6 days	5	4	49	200

EPA Point 13 Site code BO0013		Point description: In the channel after the dechlorination unit				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
faecal coliforms	CFU/100mL	every 6 days	5	<1	1	5
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100

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

Effluent quality monitoring results obtained from EPA Point 4 and 13 are used to indicate the quality of water discharged at EPA Point 1 (discharge to waters).

Bombo Wastewater Treatment Plant

January Pollution Monitoring Summary



EPL 2269

Summary period: 01-01-2021 to 31-01-2021

Date obtained: 12-02-2021

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 BO0004		Point description: At the end of the chlorine contact tanks			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
total suspended solids	mg/L	monthly	50	98	no ¹

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 BO0004		Point description: At the end of the chlorine contact tanks				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	475
biochemical oxygen demand	mg/L	every 6 days	5	<2	5.6	28
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	5	25
copper	ug/L	monthly	1	-	-	55.1
diazinon	ug/L	monthly	1	-	-	<0.1
nitrogen (ammonia)	mg/L	monthly	1	-	-	12.4
nonylphenol ethoxylate	ug/L	monthly	1	-	-	<5
total suspended solids	mg/L	every 6 days	5	4	32	130

EPA Point 13 Site code BO0013		Point description: In the channel after the dechlorination unit				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
faecal coliforms	CFU/100mL	every 6 days	5	<1	681	3,400
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100

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

Effluent quality monitoring results obtained from EPA Point 4 and 13 are used to indicate the quality of water discharged at EPA Point 1 (discharge to waters).

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 1 for the duration of the bypass where the bypass was the sole cause of the exceedance. Wet weather flows between 4-6 January was the sole cause of the 3DGM exceedance.

Bombo Wastewater Treatment Plant

December Pollution Monitoring Summary



EPL 2269

Summary period: 01-12-2020 to 31-12-2020

Date obtained: 08-01-2021

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 BO0004		Point description: At the end of the chlorine contact tanks			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
total suspended solids	mg/L	monthly	50	6	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 BO0004		Point description: At the end of the chlorine contact tanks				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	28
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
copper	ug/L	monthly	1	-	-	2
diazinon	ug/L	monthly	1	-	-	<0.1
nitrogen (ammonia)	mg/L	monthly	1	-	-	16.2
nonylphenol ethoxylate	ug/L	monthly	1	-	-	<5
total suspended solids	mg/L	every 6 days	5	3	9	18

EPA Point 13 Site code BO0013		Point description: In the channel after the dechlorination unit				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
faecal coliforms	CFU/100mL	every 6 days	4	<1	<1	2
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100

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

Effluent quality monitoring results obtained from EPA Point 4 and 13 are used to indicate the quality of water discharged at EPA Point 1 (discharge to waters).

Bombo Wastewater Treatment Plant

November Pollution Monitoring Summary



EPL 2269

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 BO0004		Point description: At the end of the chlorine contact tanks			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
total suspended solids	mg/L	monthly	50	28	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 BO0004		Point description: At the end of the chlorine contact tanks				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	380
biochemical oxygen demand	mg/L	every 6 days	5	<2	6.2	31
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	5	26
copper	ug/L	monthly	1	-	-	29.9
diazinon	ug/L	monthly	1	-	-	<0.1
nitrogen (ammonia)	mg/L	monthly	1	-	-	7.7
nonylphenol ethoxylate	ug/L	monthly	1	-	-	<5
total suspended solids	mg/L	every 6 days	5	5	30	110

EPA Point 13 Site code BO0013		Point description: In the channel after the dechlorination unit				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
faecal coliforms	CFU/100mL	every 6 days	5	<1	21	95
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100

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

Effluent quality monitoring results obtained from EPA Point 4 and 13 are used to indicate the quality of water discharged at EPA Point 1 (discharge to waters).

Bombo Wastewater Treatment Plant

October Pollution Monitoring Summary



EPL 2269

Summary period: 01-10-2020 to 31-10-2020

Date obtained: 10-11-2020

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 BO0004		Point description: At the end of the chlorine contact tanks			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
total suspended solids	mg/L	monthly	50	4	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 BO0004		Point description: At the end of the chlorine contact tanks				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	30
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
copper	ug/L	monthly	1	-	-	2.8
diazinon	ug/L	monthly	1	-	-	<0.1
nitrogen (ammonia)	mg/L	monthly	1	-	-	2.6
nonylphenol ethoxylate	ug/L	monthly	1	-	-	<5
total suspended solids	mg/L	every 6 days	5	2	3	7

EPA Point 13 Site code BO0013		Point description: In the channel after the dechlorination unit				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
faecal coliforms	CFU/100mL	every 6 days	6	<1	<1	2
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100

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

Effluent quality monitoring results obtained from EPA Point 4 and 13 are used to indicate the quality of water discharged at EPA Point 1 (discharge to waters).

Bombo Wastewater Treatment Plant

September Pollution Monitoring Summary



EPL 2269

Summary period: 01-09-2020 to 30-09-2020

Date obtained: 12-10-2020

Date published: 19-10-2020

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 4 Site code BO0004		Point description: At the end of the chlorine contact tanks			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
total suspended solids	mg/L	monthly	50	4	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 BO0004		Point description: At the end of the chlorine contact tanks				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	32
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
copper	ug/L	monthly	1	-	-	2.9
diazinon	ug/L	monthly	1	-	-	<0.1
nitrogen (ammonia)	mg/L	monthly	1	-	-	10.6
nonylphenol ethoxylate	ug/L	monthly	1	-	-	<5
total suspended solids	mg/L	every 6 days	5	<2	3	5

EPA Point 13 Site code BO0013		Point description: In the channel after the dechlorination unit				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
faecal coliforms	CFU/100mL	every 6 days	5	<1	<1	1
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	69.1

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

Effluent quality monitoring results obtained from EPA Point 4 and 13 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.

Bombo Wastewater Treatment Plant

August Pollution Monitoring Summary



EPL 2269

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 BO0004	Point description: At the end of the chlorine contact tanks				
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
total suspended solids	mg/L	monthly	50	64	no ¹

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 BO0004	Point description: At the end of the chlorine contact tanks					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	91
carbonaceous biochemical oxygen demand	mg/L	every 6 days	6	<2	<2	4
copper	ug/L	monthly	1	-	-	6.7
diazinon	ug/L	monthly	1	-	-	<0.1
nitrogen (ammonia)	mg/L	monthly	1	-	-	4.9
nonylphenol ethoxylate	ug/L	monthly	1	-	-	<5
total suspended solids	mg/L	every 6 days	6	3	7	15

EPA Point 13 Site code BO0013	Point description: In the channel after the dechlorination unit					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
faecal coliforms	CFU/100mL	every 6 days	5	2	72004	360,000
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	59.6

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

Effluent quality monitoring results obtained from EPA Point 4 and 13 are used to indicate the quality of water discharged at EPA Point 1 (discharge to waters).

¹ Under 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 1 for the duration of the bypass where the bypass was the sole cause of the exceedance. Wet weather flows between 7-11 August was the sole cause of the 3DGM exceedance.

Bombo Wastewater Treatment Plant

July Pollution Monitoring Summary



EPL 2269

Summary period: 01-07-2020 to 31-07-2020

Date obtained: 04-08-2020

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 BO0004		Point description: At the end of the chlorine contact tanks			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
total suspended solids	mg/L	monthly	50	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 4 Site code BO0004		Point description: At the end of the chlorine contact tanks				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	26
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	8	36
copper	ug/L	monthly	1	-	-	2.8
diazinon	ug/L	monthly	1	-	-	<0.1
nitrogen (ammonia)	mg/L	monthly	1	-	-	16.2
nonylphenol ethoxylate	ug/L	monthly	1	-	-	<5
total suspended solids	mg/L	every 6 days	5	2	19	78

EPA Point 13 Site code BO0013		Point description: In the channel after the dechlorination unit				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
faecal coliforms	CFU/100mL	every 6 days	5	<1	20002	100,000
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100

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

Effluent quality monitoring results obtained from EPA Point 4 and 13 are used to indicate the quality of water discharged at EPA Point 1 (discharge to waters).