St Marys Wastewater Treatment Plant June Pollution Monitoring Summary



EPL 1729

Summary period: 01-06-2019 to 30-06-2019 Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Date obtained: 11-07-2019
Date published: 17-07-2019

Table 1: 3 Day Geometric Mean and 100 percentile data

EPA Point 5 Site code SM0005	Point description: At the outlet of the chlorine contact tank									
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM actual	100 percentile limit	100 percentile actual	within limits			
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	-	-	yes			
nitrogen (total)	mg/L	every 6 days	-	_	45	6	yes			
phosphorus	mg/L	every 6 days	-	_	5	0.03	yes			
total suspended solids	mg/L	monthly	30	<2	_	-	yes			

¹⁰⁰ percentile means that 100 % of samples (or all samples) taken must not exceed the limit for that pollutant.

Table 2: Routine monitoring data

EPA Point 5 Site code SM0005	Point description: At the outlet of the chlorine contact tank								
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result			
aluminium	ug/L	monthly	1	-	-	114			
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	-	-	2.9			
diazinon	ug/L	monthly	1	-	-	<0.1			
faecal coliforms	CFU/100mL	every 6 days	5	<1	1	2			
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30			
iron	ug/L	monthly	1	-	-	39			
nickel	ug/L	monthly	1	-	-	2.2			
nitrogen (ammonia)	mg/L	every 6 days	5	0.02	0.11	0.47			
nitrogen (total)	mg/L	every 6 days	5	4.36	5.47	6			
phosphorus	mg/L	every 6 days	5	0.02	0.02	0.03			
total suspended solids	mg/L	every 6 days	5	<2	<2	<2			
zinc	ug/L	monthly	1	-	-	23			

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

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.

St Marys Wastewater Treatment Plant May Pollution Monitoring Summary



EPL 1729

Summary period: 01-05-2019 to 31-05-2019

Date obtained: 06-06-2019

Date published: 12-06-2019

Table 1: 3 Day Geometric Mean and 100 percentile data

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

EPA Point 5 Site code SM0005	Point description: At the outlet of the chlorine contact tank									
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM actual	100 percentile limit	100 percentile actual	within limits			
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	-	-	yes			
nitrogen (total)	mg/L	every 6 days	-	_	45	6.64	yes			
phosphorus	mg/L	every 6 days	-	_	5	0.03	yes			
total suspended solids	mg/L	monthly	30	<2	-	-	yes			

¹⁰⁰ percentile means that 100 % of samples (or all samples) taken must not exceed the limit for that pollutant.

Table 2: Routine monitoring data

EPA Point 5 Site code SM0005	Point description: At the outlet of the chlorine contact tank								
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result			
aluminium	ug/L	monthly	1	-	-	94			
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	-	-	3.4			
diazinon	ug/L	monthly	1	-	-	<0.1			
faecal coliforms	CFU/100mL	every 6 days	5	<1	2	4			
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30			
iron	ug/L	monthly	1	-	-	42			
nickel	ug/L	monthly	1	-	-	2.7			
nitrogen (ammonia)	mg/L	every 6 days	5	0.01	0.37	1.11			
nitrogen (total)	mg/L	every 6 days	5	4.48	5.44	6.64			
phosphorus	mg/L	every 6 days	5	0.02	0.02	0.03			
total suspended solids	mg/L	every 6 days	5	<2	<2	<2			
zinc	ug/L	monthly	1	-	-	20			

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

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.

St Marys Wastewater Treatment Plant April Pollution Monitoring Summary



EPL 1729

Summary period: 01-04-2019 to 30-04-2019

Date obtained: 06-05-2019

Date published: 13-05-2019

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean and 100 percentile data

EPA Point 5 Site code SM0005	Point description: At the outlet of the chlorine contact tank								
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM actual	100 percentile limit	100 percentile actual	within limits		
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	-	-	yes		
nitrogen (total)	mg/L	every 6 days	-	_	45	7.61	yes		
phosphorus	mg/L	every 6 days	-	_	5	0.02	yes		
total suspended solids	mg/L	monthly	30	<2	-	-	yes		

¹⁰⁰ percentile means that 100 % of samples (or all samples) taken must not exceed the limit for that pollutant.

Table 2: Routine monitoring data

EPA Point 5 Site code SM0005	Point description: At the outlet of the chlorine contact tank								
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result			
aluminium	ug/L	monthly	1	-	-	62			
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	-	-	3.4			
diazinon	ug/L	monthly	1	-	-	<0.1			
faecal coliforms	CFU/100mL	every 6 days	5	<1	1	2			
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30			
iron	ug/L	monthly	1	-	-	28			
nickel	ug/L	monthly	1	-	-	2.6			
nitrogen (ammonia)	mg/L	every 6 days	5	0.01	0.27	0.78			
nitrogen (total)	mg/L	every 6 days	5	4.49	5.92	7.61			
phosphorus	mg/L	every 6 days	5	0.02	0.02	0.02			
total suspended solids	mg/L	every 6 days	5	<2	<2	<2			
zinc	ug/L	monthly	1	-	-	27			

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

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.

St Marys Wastewater Treatment Plant March Pollution Monitoring Summary



EPL 1729

Summary period: 01-03-2019 to 31-03-2019 Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Date obtained: 08-04-2019 Date published: 12-04-2019

Table 1: 3 Day Geometric Mean and 100 percentile data

EPA Point 5 Site code SM0005	Point description: At the outlet of the chlorine contact tank									
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM actual	100 percentile limit	100 percentile actual	within limits			
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	-	-	yes			
nitrogen (total)	mg/L	every 6 days	-	_	45	5.14	yes			
phosphorus	mg/L	every 6 days	-	_	5	0.03	yes			
total suspended solids	mg/L	monthly	30	<2	_	-	yes			

¹⁰⁰ percentile means that 100 % of samples (or all samples) taken must not exceed the limit for that pollutant.

Table 2: Routine monitoring data

EPA Point 5 Site code SM0005	Point descript	tion: At the ou	tlet of the chl	orine contac	ct tank	
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	80
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	-	-	3.4
diazinon	ug/L	monthly	1	-	-	<0.1
faecal coliforms	CFU/100mL	every 6 days	5	<1	3	11
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
iron	ug/L	monthly	1	-	-	28
nickel	ug/L	monthly	1	-	-	2.9
nitrogen (ammonia)	mg/L	every 6 days	5	0.02	0.04	0.09
nitrogen (total)	mg/L	every 6 days	5	3.61	4.38	5.14
phosphorus	mg/L	every 6 days	5	0.02	0.02	0.03
total suspended solids	mg/L	every 6 days	5	<2	<2	<2
zinc	ug/L	monthly	1	-	-	20

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

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.

St Marys Wastewater Treatment Plant February Pollution Monitoring Summary



EPL 1729

Summary period: 01-02-2019 to 28-02-2019 Licensee: Sydney Water Corporation

Date obtained: 13-03-2019 PO Box 399

Date published: 15-03-2019 PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean and 100 percentile data

EPA Point 5 Site code SM0005	Point description: At the outlet of the chlorine contact tank									
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM actual	100 percentile limit	100 percentile actual	within limits			
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	-	_	yes			
nitrogen (total)	mg/L	every 6 days	-	_	45	5.11	yes			
phosphorus	mg/L	every 6 days	-	_	5	0.02	yes			
total suspended solids	mg/L	monthly	30	<2	_	-	yes			

¹⁰⁰ percentile means that 100 % of samples (or all samples) taken must not exceed the limit for that pollutant.

Table 2: Routine monitoring data

EPA Point 5 Site code SM0005	Point description: At the outlet of the chlorine contact tank								
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result			
aluminium	ug/L	monthly	1	-	-	57			
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	-	-	3.1			
diazinon	ug/L	monthly	1	-	-	<0.1			
faecal coliforms	CFU/100mL	every 6 days	5	2	5	15			
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30			
iron	ug/L	monthly	1	-	-	44			
nickel	ug/L	monthly	1	-	-	2.7			
nitrogen (ammonia)	mg/L	every 6 days	5	0.01	0.05	0.16			
nitrogen (total)	mg/L	every 6 days	5	3.22	3.89	5.11			
phosphorus	mg/L	every 6 days	5	0.02	0.02	0.02			
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.

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.

St Marys Wastewater Treatment Plant January Pollution Monitoring Summary



EPL 1729

Summary period: 01-01-2019 to 31-01-2019 Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Date obtained: 14-02-2019 Date published: 22-02-2019

Table 1: 3 Day Geometric Mean and 100 percentile data

EPA Point 5 Site code SM0005	Point description: At the outlet of the chlorine contact tank								
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM actual	100 percentile limit	100 percentile actual	within limits		
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	_	-	yes		
nitrogen (total)	mg/L	every 6 days	-	_	45	4.34	yes		
phosphorus	mg/L	every 6 days	-	_	5	0.03	yes		
total suspended solids	mg/L	monthly	30	<2	_	-	yes		

¹⁰⁰ percentile means that 100 % of samples (or all samples) taken must not exceed the limit for that pollutant.

Table 2: Routine monitoring data

EPA Point 5 Site code SM0005	Point descript	tion: At the ou	tlet of the chl	orine contac	ct tank	
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	120
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	-	-	1.5
diazinon	ug/L	monthly	1	-	-	<0.1
faecal coliforms	CFU/100mL	every 6 days	5	<1	11	48
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
iron	ug/L	monthly	1	-	-	38
nickel	ug/L	monthly	1	-	-	2.1
nitrogen (ammonia)	mg/L	every 6 days	5	0.01	0.3	1.27
nitrogen (total)	mg/L	every 6 days	5	3.03	3.49	4.34
phosphorus	mg/L	every 6 days	5	0.02	0.02	0.03
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.

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.

St Marys Wastewater Treatment Plant December Pollution Monitoring Summary



EPL 1729

Summary period: 01-12-2018 to 31-12-2018 Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Date obtained: 14-01-2019 Date published: 18-01-2019

Table 1: 3 Day Geometric Mean and 100 percentile data

EPA Point 5 Site code SM0005	Point description: At the outlet of the chlorine contact tank									
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM actual	100 percentile limit	100 percentile actual	within limits			
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	-	-	yes			
nitrogen (total)	mg/L	every 6 days	-	_	45	5.12	yes			
phosphorus	mg/L	every 6 days	-	_	5	0.04	yes			
total suspended solids	mg/L	monthly	30	<2	-	-	yes			

¹⁰⁰ percentile means that 100 % of samples (or all samples) taken must not exceed the limit for that pollutant.

Table 2: Routine monitoring data

EPA Point 5 Site code SM0005	Point descript	ion: At the ou	tlet of the chl	orine contac	ct tank	
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	85
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	-	-	3.3
diazinon	ug/L	monthly	1	-	-	<0.1
faecal coliforms	CFU/100mL	every 6 days	5	<1	9	30
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
iron	ug/L	monthly	1	-	-	26
nickel	ug/L	monthly	1	-	-	2.8
nitrogen (ammonia)	mg/L	every 6 days	5	0.02	0.15	0.55
nitrogen (total)	mg/L	every 6 days	5	2.34	4.26	5.12
phosphorus	mg/L	every 6 days	5	0.03	0.03	0.04
total suspended solids	mg/L	every 6 days	5	<2	<2	<2
zinc	ug/L	monthly	1	-	-	22

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

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.

St Marys Wastewater Treatment Plant November Pollution Monitoring Summary



EPL 1729

Summary period: 01-11-2018 to 30-11-2018 Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Date obtained: 07-12-2018 Date published: 18-12-2018

Table 1: 3 Day Geometric Mean and 100 percentile data

EPA Point 5 Site code SM0005	Point description: At the outlet of the chlorine contact tank								
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM actual	100 percentile limit	100 percentile actual	within limits		
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	-	-	yes		
nitrogen (total)	mg/L	every 6 days	-	_	45	5.62	yes		
phosphorus	mg/L	every 6 days	-	_	5	0.04	yes		
total suspended solids	mg/L	monthly	30	2	-	-	yes		

¹⁰⁰ percentile means that 100 % of samples (or all samples) taken must not exceed the limit for that pollutant.

Table 2: Routine monitoring data

EPA Point 5 Site code SM0005	Point description: At the outlet of the chlorine contact tank								
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result			
aluminium	ug/L	monthly	1	-	-	112			
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	-	-	2.8			
diazinon	ug/L	monthly	1	-	-	<0.1			
faecal coliforms	CFU/100mL	every 6 days	5	3	4	7			
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30			
iron	ug/L	monthly	1	-	-	30			
nickel	ug/L	monthly	1	-	-	3.8			
nitrogen (ammonia)	mg/L	every 6 days	5	0.02	0.04	0.08			
nitrogen (total)	mg/L	every 6 days	5	3.7	4.16	5.62			
phosphorus	mg/L	every 6 days	5	0.02	0.03	0.04			
total suspended solids	mg/L	every 6 days	5	<2	<2	3			
zinc	ug/L	monthly	1	-	-	23			

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

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.

St Marys Wastewater Treatment Plant October Pollution Monitoring Summary



EPL 1729

Date obtained: 12-11-2018

Summary period: 01-10-2018 to 31-10-2018 Licensee: Sydney Water Corporation

PO Box 399

Date published: 23-11-2018 PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean and 100 percentile data

EPA Point 5 Site code SM0005	Point description: At the outlet of the chlorine contact tank									
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM actual	100 percentile limit	100 percentile actual	within limits			
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	-	-	yes			
nitrogen (total)	mg/L	every 6 days	-	_	45	6.54	yes			
phosphorus	mg/L	every 6 days	-	_	5	0.04	yes			
total suspended solids	mg/L	monthly	30	<2	-	-	yes			

¹⁰⁰ percentile means that 100 % of samples (or all samples) taken must not exceed the limit for that pollutant.

Table 2: Routine monitoring data

EPA Point 5 Site code SM0005	Point description: At the outlet of the chlorine contact tank								
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result			
aluminium	ug/L	monthly	1	-	-	140			
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	6	<0.04	<0.04	<0.04			
copper	ug/L	monthly	1	-	-	2.3			
diazinon	ug/L	monthly	1	-	-	<0.1			
faecal coliforms	CFU/100mL	every 6 days	6	<1	2	4			
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30			
iron	ug/L	monthly	1	-	-	45			
nickel	ug/L	monthly	1	-	-	3.2			
nitrogen (ammonia)	mg/L	every 6 days	5	0.02	0.19	0.44			
nitrogen (total)	mg/L	every 6 days	5	4.6	5.34	6.54			
phosphorus	mg/L	every 6 days	5	0.02	0.03	0.04			
total suspended solids	mg/L	every 6 days	5	<2	<2	<2			
zinc	ug/L	monthly	1	-	-	16			

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

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.

St Marys Wastewater Treatment Plant September Pollution Monitoring Summary



EPL 1729

Date obtained: 15-10-2018

Summary period: 01-09-2018 to 30-09-2018 Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Date published: 19-10-2018

Table 1: 3 Day Geometric Mean and 100 per	centile data	a							
EPA Point 5 Site code SM0005	Point description: At the outlet of the chlorine contact tank								
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM actual	100 percentile limit	100 percentile actual	within limits		
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	_	_	yes		
nitrogen (total)	mg/L	every 6 days	_	_	45	5.44	yes		
phosphorus	mg/L	every 6 days	_	_	5	0.04	yes		
total suspended solids	mg/L	monthly	30	<2	_	_	yes		

¹⁰⁰ percentile means that 100 % of samples (or all samples) taken must not exceed the limit for that pollutant.

Table 2: Routine monitoring data

EPA Point 5 Site code SM0005	Point description: At the outlet of the chlorine contact tank								
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result			
aluminium	ug/L	monthly	1	-	-	75			
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	-	-	2.1			
diazinon	ug/L	monthly	1	-	-	<0.1			
faecal coliforms	CFU/100mL	every 6 days	5	<1	<1	<1			
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30			
iron	ug/L	monthly	1	-	-	47			
nickel	ug/L	monthly	1	-	-	3.6			
nitrogen (ammonia)	mg/L	every 6 days	5	0.02	0.34	0.94			
nitrogen (total)	mg/L	every 6 days	5	4.08	4.62	5.44			
phosphorus	mg/L	every 6 days	5	0.02	0.03	0.04			
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.

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.

St Marys Wastewater Treatment Plant August Pollution Monitoring Summary



EPL 1729

Summary period: 01-08-2018 to 31-08-2018 Licensee: Sydney Water Corporation

Date obtained: 11-09-2018 PO Box 399

Date published: 14-09-2018 PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean and 100 percentile data

EPA Point 5 Site code SM0005	Point description: At the outlet of the chlorine contact tank									
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM actual	100 percentile limit	100 percentile actual	within limits			
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	-	-	yes			
nitrogen (total)	mg/L	every 6 days	-	_	45	5.64	yes			
phosphorus	mg/L	every 6 days	-	_	5	0.03	yes			
total suspended solids	mg/L	monthly	30	<2	-	-	yes			

¹⁰⁰ percentile means that 100 % of samples (or all samples) taken must not exceed the limit for that pollutant.

Table 2: Routine monitoring data

EPA Point 5 Site code SM0005	Point description: At the outlet of the chlorine contact tank								
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result			
aluminium	ug/L	monthly	1	-	-	147			
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	-	-	3			
diazinon	ug/L	monthly	1	-	-	<0.1			
faecal coliforms	CFU/100mL	every 6 days	5	<1	<1	<1			
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30			
iron	ug/L	monthly	1	-	-	52			
nickel	ug/L	monthly	1	-	-	3.1			
nitrogen (ammonia)	mg/L	every 6 days	6	0.03	0.49	1.87			
nitrogen (total)	mg/L	every 6 days	6	4.19	4.73	5.64			
phosphorus	mg/L	every 6 days	6	0.02	0.03	0.03			
total suspended solids	mg/L	every 6 days	6	<2	<2	<2			
zinc	ug/L	monthly	1	-	-	23			

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

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.

St Marys Wastewater Treatment Plant July Pollution Monitoring Summary



EPL 1729

Summary period: 01-07-2018 to 31-07-2018

Date obtained: 09-08-2018

Date published: 14-08-2018

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean and 100 percentile data

EPA Point 5 Site code SM0005	Point description: At the outlet of the chlorine contact tank									
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM actual	100 percentile limit	100 percentile actual	within limits			
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	-	-	yes			
nitrogen (total)	mg/L	every 6 days	-	_	45	4.63	yes			
phosphorus	mg/L	every 6 days	-	_	5	0.03	yes			
total suspended solids	mg/L	monthly	30	2	_	-	yes			

¹⁰⁰ percentile means that 100 % of samples (or all samples) taken must not exceed the limit for that pollutant.

Table 2: Routine monitoring data

EPA Point 5 Site code SM0005	Point descript	tion: At the ou	tlet of the chl	orine contac	ct tank	
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	119
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	-	-	3.3
diazinon	ug/L	monthly	1	-	-	<0.1
faecal coliforms	CFU/100mL	every 6 days	5	<1	<1	2
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
iron	ug/L	monthly	1	-	-	58
nickel	ug/L	monthly	1	-	-	2.8
nitrogen (ammonia)	mg/L	every 6 days	5	0.21	0.54	1.06
nitrogen (total)	mg/L	every 6 days	5	3.85	4.36	4.63
phosphorus	mg/L	every 6 days	5	0.02	0.02	0.03
total suspended solids	mg/L	every 6 days	5	<2	<2	3
zinc	ug/L	monthly	1	-	-	19

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

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.