## St Marys Wastewater Treatment Plant June Pollution Monitoring Summary



#### **EPL 1729**

Summary period: 01-06-2022 to 30-06-2022 Licensee: Sydney Water Corporation

Date obtained: 08-07-2022 PO Box 399

Date published: 15-07-2022 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			
biochemical oxygen demand	mg/L	monthly	30	<2	-	-	yes			
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	-	-	yes			
nitrogen (total)	mg/L	every 6 days	-	_	45	3.68	yes			
phosphorus	mg/L	every 6 days	-	_	5	0.03	yes			
total suspended solids	mg/L	monthly	10	<2	-	-	yes			

<sup>100</sup> 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	-	-	38			
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	-	-	3.1			
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	-	-	69			
nickel	ug/L	monthly	1	-	-	3.5			
nitrogen (ammonia)	mg/L	every 6 days	5	0.01	0.01	0.02			
nitrogen (total)	mg/L	every 6 days	5	2.48	3.08	3.68			
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	-	-	24			

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

<sup>3</sup> 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: 01-05-2022 to 31-05-2022 Licensee: Sydney Water Corporation

Date obtained: 12-06-2022 PO Box 399

Date published: 24-06-2022 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			
biochemical oxygen demand	mg/L	monthly	30	<2	_	_	yes			
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	_	_	yes			
nitrogen (total)	mg/L	every 6 days	-	_	45	4.17	yes			
phosphorus	mg/L	every 6 days	-	_	5	0.02	yes			
total suspended solids	mg/L	monthly	10	<2	_	_	yes			

<sup>100</sup> 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	-	-	56
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
copper	ug/L	monthly	1	-	-	3.7
diazinon	ug/L	monthly	1	-	-	<0.1
faecal coliforms	CFU/100mL	every 6 days	5	1	2	3
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
iron	ug/L	monthly	1	-	-	66
nickel	ug/L	monthly	1	-	-	3.4
nitrogen (ammonia)	mg/L	every 6 days	6	0.01	0.04	0.13
nitrogen (total)	mg/L	every 6 days	6	2.55	3.25	4.17
phosphorus	mg/L	every 6 days	6	0.02	0.02	0.02
total suspended solids	mg/L	every 6 days	6	<2	<2	3
zinc	ug/L	monthly	1	-	-	19

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

<sup>3</sup> 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: 01-04-2022 to 30-04-2022 Licensee: Sydney Water Corporation

Date obtained: 09-05-2022 PO Box 399

Date published: 20-05-2022 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			
biochemical oxygen demand	mg/L	monthly	30	<2	_	-	yes			
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	_	-	yes			
nitrogen (total)	mg/L	every 6 days	-	_	45	4.3	yes			
phosphorus	mg/L	every 6 days	-	_	5	0.03	yes			
total suspended solids	mg/L	monthly	10	<2	-	_	yes			

<sup>100</sup> 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	-	-	90
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	2	3
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
iron	ug/L	monthly	1	-	-	31
nickel	ug/L	monthly	1	-	-	3.4
nitrogen (ammonia)	mg/L	every 6 days	5	0.01	0.06	0.24
nitrogen (total)	mg/L	every 6 days	5	1.87	3.3	4.3
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	-	-	12

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

<sup>3</sup> 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: 01-03-2022 to 31-03-2022 Licensee: Sydney Water Corporation

Date obtained: 05-04-2022 PO Box 399

Date published: 15-04-2022 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			
biochemical oxygen demand	mg/L	monthly	30	<2	_	-	yes			
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	_	-	yes			
nitrogen (total)	mg/L	every 6 days	-	_	45	3.87	yes			
phosphorus	mg/L	every 6 days	-	_	5	0.16	yes			
total suspended solids	mg/L	monthly	10	<2	_	-	yes			

<sup>100</sup> 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	-	-	48
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	-	-	3.8
diazinon	ug/L	monthly	1	-	-	<0.1
faecal coliforms	CFU/100mL	every 6 days	5	1	4	10
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
iron	ug/L	monthly	1	-	-	48
nickel	ug/L	monthly	1	-	-	2.9
nitrogen (ammonia)	mg/L	every 6 days	5	0.01	0.02	0.03
nitrogen (total)	mg/L	every 6 days	5	2.56	3.11	3.87
phosphorus	mg/L	every 6 days	5	0.01	0.06	0.16
total suspended solids	mg/L	every 6 days	5	<2	2	8
zinc	ug/L	monthly	1	-	-	14

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

<sup>3</sup> 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: 01-02-2022 to 28-02-2022 Licensee: Sydney Water Corporation

Date obtained: 11-03-2022 PO Box 399

Date published: 23-03-2022 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			
biochemical oxygen demand	mg/L	monthly	30	<2	_	_	yes			
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	_	_	yes			
nitrogen (total)	mg/L	every 6 days	-	_	45	4.12	yes			
phosphorus	mg/L	every 6 days	-	_	5	0.06	yes			
total suspended solids	mg/L	monthly	10	<2	_	_	yes			

<sup>100</sup> 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	-	-	57
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	-	-	4.8
diazinon	ug/L	monthly	1	-	-	<0.1
faecal coliforms	CFU/100mL	every 6 days	5	<1	1	6
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
iron	ug/L	monthly	1	-	-	66
nickel	ug/L	monthly	1	-	-	4
nitrogen (ammonia)	mg/L	every 6 days	4	0.01	0.05	0.12
nitrogen (total)	mg/L	every 6 days	4	2.79	3.42	4.12
phosphorus	mg/L	every 6 days	4	0.01	0.03	0.06
total suspended solids	mg/L	every 6 days	4	<2	<2	<2
zinc	ug/L	monthly	1	-	-	29

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

<sup>3</sup> 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: 01-01-2022 to 31-01-2022 Licensee: Sydney Water Corporation

Date obtained: 08-02-2022 PO Box 399

Date published: 14-02-2022 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			
biochemical oxygen demand	mg/L	monthly	30	<2	_	_	yes			
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	_	_	yes			
nitrogen (total)	mg/L	every 6 days	-	_	45	4.98	yes			
phosphorus	mg/L	every 6 days	-	_	5	0.02	yes			
total suspended solids	mg/L	monthly	10	<2	_	_	yes			

<sup>100</sup> 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	-	-	41
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
copper	ug/L	monthly	1	-	-	5.1
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	-	-	53
nickel	ug/L	monthly	1	-	-	2.9
nitrogen (ammonia)	mg/L	every 6 days	6	0.01	0.03	0.1
nitrogen (total)	mg/L	every 6 days	6	3	3.93	4.98
phosphorus	mg/L	every 6 days	6	0.01	0.02	0.02
total suspended solids	mg/L	every 6 days	6	<2	<2	<2
zinc	ug/L	monthly	1	-	-	22

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

<sup>3</sup> 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: 01-12-2021 to 31-12-2021 Licensee: Sydney Water Corporation

Date obtained: 04-01-2022 PO Box 399

Date published: 14-01-2022 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			
biochemical oxygen demand	mg/L	monthly	30	<2	_	-	yes			
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	_	-	yes			
nitrogen (total)	mg/L	every 6 days	-	_	45	4.14	yes			
phosphorus	mg/L	every 6 days	-	_	5	0.03	yes			
total suspended solids	mg/L	monthly	10	3	-	_	yes			

<sup>100</sup> 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	-	_	44
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	2	5
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
iron	ug/L	monthly	1	-	-	36
nickel	ug/L	monthly	1	-	-	3.1
nitrogen (ammonia)	mg/L	every 6 days	5	0.01	0.02	0.06
nitrogen (total)	mg/L	every 6 days	5	2.39	3.54	4.14
phosphorus	mg/L	every 6 days	5	0.01	0.02	0.03
total suspended solids	mg/L	every 6 days	5	<2	<2	4
zinc	ug/L	monthly	1	-	-	18

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

<sup>3</sup> 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: 01-11-2021 to 30-11-2021 Licensee: Sydney Water Corporation

Date obtained: 10-12-2021 PO Box 399

Date published: 17-12-2021 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			
biochemical oxygen demand	mg/L	monthly	30	<2	_	-	yes			
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	_	-	yes			
nitrogen (total)	mg/L	every 6 days	-	_	45	3.16	yes			
phosphorus	mg/L	every 6 days	-	_	5	0.04	yes			
total suspended solids	mg/L	monthly	10	<2	-	_	yes			

<sup>100</sup> 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	-	-	45
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	4	<0.04	<0.04	0.04
copper	ug/L	monthly	1	-	-	3.5
diazinon	ug/L	monthly	1	-	-	<0.1
faecal coliforms	CFU/100mL	every 6 days	5	<1	5	8
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
iron	ug/L	monthly	1	-	-	53
nickel	ug/L	monthly	1	-	-	2.8
nitrogen (ammonia)	mg/L	every 6 days	5	0.01	0.02	0.04
nitrogen (total)	mg/L	every 6 days	5	2.34	2.84	3.16
phosphorus	mg/L	every 6 days	5	0.01	0.02	0.04
total suspended solids	mg/L	every 6 days	5	<2	<2	4
zinc	ug/L	monthly	1	-	-	22

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

<sup>3</sup> 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**

Summary period: 01-10-2021 to 31-10-2021 Licensee: Sydney Water Corporation

Date obtained: 05-11-2021 PO Box 399

Date published: 12-11-2021 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			
biochemical oxygen demand	mg/L	monthly	30	<2	-	-	yes			
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	_	_	yes			
nitrogen (total)	mg/L	every 6 days	-	_	45	3.94	yes			
phosphorus	mg/L	every 6 days	-	_	5	0.02	yes			
total suspended solids	mg/L	monthly	10	<2	-	-	yes			

<sup>100</sup> 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	-	-	39
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	-	-	3.9
diazinon	ug/L	monthly	1	-	-	<0.1
faecal coliforms	CFU/100mL	every 6 days	5	1	4	9
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
iron	ug/L	monthly	1	-	-	49
nickel	ug/L	monthly	1	-	-	2.6
nitrogen (ammonia)	mg/L	every 6 days	5	0.01	0.42	2.04
nitrogen (total)	mg/L	every 6 days	5	1.85	2.66	3.94
phosphorus	mg/L	every 6 days	5	0.01	0.02	0.02
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.

<sup>3</sup> 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**

Summary period: 01-09-2021 to 30-09-2021 Licensee: Sydney Water Corporation

Date obtained: 06-10-2021 PO Box 399

Date published: 13-10-2021 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			
biochemical oxygen demand	mg/L	monthly	30	<2	_	_	yes			
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	_	_	yes			
nitrogen (total)	mg/L	every 6 days	-	_	45	3.43	yes			
phosphorus	mg/L	every 6 days	-	_	5	0.03	yes			
total suspended solids	mg/L	monthly	10	<2	_	-	yes			

<sup>100</sup> 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	-	-	52
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	3	7
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
iron	ug/L	monthly	1	-	-	47
nickel	ug/L	monthly	1	-	-	3.2
nitrogen (ammonia)	mg/L	every 6 days	5	0.02	0.02	0.04
nitrogen (total)	mg/L	every 6 days	5	2.27	2.81	3.43
phosphorus	mg/L	every 6 days	5	0.02	0.03	0.03
total suspended solids	mg/L	every 6 days	5	<2	<2	<2
zinc	ug/L	monthly	1	-	-	24

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

<sup>3</sup> 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: 01-08-2021 to 31-08-2021 Licensee: Sydney Water Corporation

Date obtained: 04-09-2021 PO Box 399

Date published: 13-09-2021 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			
biochemical oxygen demand	mg/L	monthly	30	<2	_	_	yes			
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	-	-	yes			
nitrogen (total)	mg/L	every 6 days	_	-	45	4.17	yes			
phosphorus	mg/L	every 6 days	_	-	5	0.02	yes			
total suspended solids	mg/L	monthly	10	<2	-	-	yes			

<sup>100</sup> 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	-	-	49
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	-	-	4.8
diazinon	ug/L	monthly	1	-	-	<0.1
faecal coliforms	CFU/100mL	every 6 days	5	<1	1	4
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
iron	ug/L	monthly	1	-	-	80
nickel	ug/L	monthly	1	-	-	3.3
nitrogen (ammonia)	mg/L	every 6 days	5	0.01	0.03	0.06
nitrogen (total)	mg/L	every 6 days	5	1.84	3.19	4.17
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	-	-	29

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

<sup>3</sup> 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: 01-07-2021 to 31-07-2021 Licensee: Sydney Water Corporation

Date obtained: 07-08-2021 PO Box 399

Date published: 18-08-2021 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		
biochemical oxygen demand	mg/L	monthly	30	<2	_	_	yes		
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	_	_	yes		
nitrogen (total)	mg/L	every 6 days	-	_	45	4.46	yes		
phosphorus	mg/L	every 6 days	-	_	5	0.02	yes		
total suspended solids	mg/L	monthly	10	<2	_	_	yes		

<sup>100</sup> 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	-	-	50
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	<1	1
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
iron	ug/L	monthly	1	-	-	71
nickel	ug/L	monthly	1	-	-	3.3
nitrogen (ammonia)	mg/L	every 6 days	5	0.02	0.06	0.19
nitrogen (total)	mg/L	every 6 days	5	2.6	3.1	4.46
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.

<sup>3</sup> 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.