St Marys Water Resource Recovery Facility June Pollution Monitoring Summary



EPL 1729

Summary period: 01-06-2024 to 30-06-2024 Licensee: Sydney Water Corporation

Date obtained: 08-07-2024 PO Box 399

Date published: 22-07-2024 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			
nitrogen (total)	mg/L	every 6 days	-	_	45	8.32	yes			
phosphorus	mg/L	every 6 days	-	_	5	0.03	yes			
total suspended solids	mg/L	monthly	10	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	-	-	33
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	-	-	15.4
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	-	-	53
nickel	ug/L	monthly	1	-	-	3.7
nitrogen (ammonia)	mg/L	every 6 days	5	0.01	0.03	0.06
nitrogen (total)	mg/L	every 6 days	5	5.95	7.39	8.32
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	-	-	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 Water Resource Recovery Facility May Pollution Monitoring Summary



EPL 1729

Summary period: 01-05-2024 to 31-05-2024 Licensee: Sydney Water Corporation

Date obtained: 12-06-2024 PO Box 399

Date published: 21-06-2024 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		
nitrogen (total)	mg/L	every 6 days	-	_	45	6.34	yes		
phosphorus	mg/L	every 6 days	-	_	5	0.04	yes		
total suspended solids	mg/L	monthly	10	<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	-	-	35
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	-	-	12.6
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	-	-	72
nickel	ug/L	monthly	1	-	-	3.7
nitrogen (ammonia)	mg/L	every 6 days	6	0.01	0.03	0.07
nitrogen (total)	mg/L	every 6 days	6	4.04	5.62	6.34
phosphorus	mg/L	every 6 days	6	0.02	0.02	0.04
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 Water Resource Recovery Facility April Pollution Monitoring Summary



EPL 1729

Summary period: 01-04-2024 to 30-04-2024 Licensee: Sydney Water Corporation

Date obtained: 06-05-2024 PO Box 399

Date published: 20-05-2024 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		
nitrogen (total)	mg/L	every 6 days	-	_	45	8.08	yes		
phosphorus	mg/L	every 6 days	-	_	5	0.03	yes		
total suspended solids	mg/L	monthly	10	<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	-	-	50			
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	-	-	10.9			
diazinon	ug/L	monthly	1	-	-	<0.1			
faecal coliforms	CFU/100mL	every 6 days	5	1	5	12			
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30			
iron	ug/L	monthly	1	-	-	80			
nickel	ug/L	monthly	1	-	-	3.8			
nitrogen (ammonia)	mg/L	every 6 days	5	0.01	0.02	0.02			
nitrogen (total)	mg/L	every 6 days	5	3.28	5.97	8.08			
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	-	-	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 Water Resource Recovery Facility March Pollution Monitoring Summary



EPL 1729

Summary period: 01-03-2024 to 31-03-2024 Licensee: Sydney Water Corporation

Date obtained: 05-04-2024 PO Box 399

Date published: 18-04-2024 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		
nitrogen (total)	mg/L	every 6 days	-	_	45	6.13	yes		
phosphorus	mg/L	every 6 days	-	_	5	0.04	yes		
total suspended solids	mg/L	monthly	10	<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	-	-	47			
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	-	-	14			
diazinon	ug/L	monthly	1	-	-	<0.1			
faecal coliforms	CFU/100mL	every 6 days	5	<1	1	3			
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30			
iron	ug/L	monthly	1	-	-	68			
nickel	ug/L	monthly	1	-	-	4			
nitrogen (ammonia)	mg/L	every 6 days	5	0.02	0.02	0.02			
nitrogen (total)	mg/L	every 6 days	5	2.46	4.33	6.13			
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	-	-	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.

St Marys Water Resource Recovery Facility February Pollution Monitoring Summary



EPL 1729

Summary period: 01-02-2024 to 29-02-2024 Licensee: Sydney Water Corporation

Date obtained: 12-03-2024 PO Box 399

Date published: 25-03-2024 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			
nitrogen (total)	mg/L	every 6 days	-	_	45	8.14	yes			
phosphorus	mg/L	every 6 days	-	_	5	0.12	yes			
total suspended solids	mg/L	monthly	10	<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	-	-	55
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	-	-	6.8
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	-	-	61
nickel	ug/L	monthly	1	-	-	3.1
nitrogen (ammonia)	mg/L	every 6 days	5	0.02	0.06	0.23
nitrogen (total)	mg/L	every 6 days	5	3.71	5.43	8.14
phosphorus	mg/L	every 6 days	5	0.03	0.06	0.12
total suspended solids	mg/L	every 6 days	5	<2	<2	<2
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.

St Marys Water Resource Recovery Facility January Pollution Monitoring Summary



EPL 1729

Summary period: 01-01-2024 to 31-01-2024 Licensee: Sydney Water Corporation

Date obtained: 04-02-2024 PO Box 399

Date published: 15-02-2024 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		
nitrogen (total)	mg/L	every 6 days	-	_	45	6.18	yes		
phosphorus	mg/L	every 6 days	-	_	5	0.04	yes		
total suspended solids	mg/L	monthly	10	<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	int 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			
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	-	-	7.8			
diazinon	ug/L	monthly	1	-	-	<0.1			
faecal coliforms	CFU/100mL	every 6 days	5	<1	7	14			
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30			
iron	ug/L	monthly	1	-	-	55			
nickel	ug/L	monthly	1	-	-	2.9			
nitrogen (ammonia)	mg/L	every 6 days	5	0.02	0.02	0.02			
nitrogen (total)	mg/L	every 6 days	5	3.41	4.62	6.18			
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 Water Resource Recovery Facility December Pollution Monitoring Summary



EPL 1729

Summary period: 01-12-2023 to 31-12-2023 Licensee: Sydney Water Corporation

Date obtained: 12-01-2024 PO Box 399

Date published: 22-01-2024 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			
nitrogen (total)	mg/L	every 6 days	-	-	45	7.65	yes			
phosphorus	mg/L	every 6 days	-	-	5	0.18	yes			
total suspended solids	mg/L	monthly	10	<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	-	-	58
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	-	-	13
diazinon	ug/L	monthly	1	-	-	<0.1
faecal coliforms	CFU/100mL	every 6 days	5	<1	4	8
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
iron	ug/L	monthly	1	-	-	43
nickel	ug/L	monthly	1	-	-	3.3
nitrogen (ammonia)	mg/L	every 6 days	5	0.02	0.18	0.8
nitrogen (total)	mg/L	every 6 days	5	3.99	6.07	7.65
phosphorus	mg/L	every 6 days	5	0.06	0.12	0.18
total suspended solids	mg/L	every 6 days	5	<2	<2	<2
zinc	ug/L	monthly	1	-	-	25

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 Mary's Water Resource Recovery Facility November Pollution Monitoring Summary



EPL 1729

Summary period: 01-11-2023 to 30-11-2023 Licensee: Sydney Water Corporation

Date obtained: 06-12-2023 PO Box 399

Date published: 14-12-2023 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			
nitrogen (total)	mg/L	every 6 days	-	_	45	7.17	yes			
phosphorus	mg/L	every 6 days	-	_	5	0.1	yes			
total suspended solids	mg/L	monthly	10	<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	-	-	61
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	-	-	13.7
diazinon	ug/L	monthly	1	-	-	<0.1
faecal coliforms	CFU/100mL	every 6 days	5	<1	6	16
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
iron	ug/L	monthly	1	-	-	72
nickel	ug/L	monthly	1	-	-	4.6
nitrogen (ammonia)	mg/L	every 6 days	5	0.02	0.02	0.03
nitrogen (total)	mg/L	every 6 days	5	4.31	5.47	7.17
phosphorus	mg/L	every 6 days	5	0.02	0.04	0.1
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.

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 Mary's Water Resource Recovery Facility October Pollution Monitoring Summary



EPL 1729

Summary period: 01-10-2023 to 31-10-2023 Licensee: Sydney Water Corporation

Date obtained: 03-11-2023 PO Box 399

Date published: 17-11-2023 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			
nitrogen (total)	mg/L	every 6 days	-	_	45	6.05	yes			
phosphorus	mg/L	every 6 days	-	_	5	0.04	yes			
total suspended solids	mg/L	monthly	10	<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	_	-	44			
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	-	-	10.4			
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	-	-	83			
nickel	ug/L	monthly	1	-	-	6.6			
nitrogen (ammonia)	mg/L	every 6 days	5	0.02	0.03	0.05			
nitrogen (total)	mg/L	every 6 days	5	3.87	4.85	6.05			
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	-	-	32			

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 Mary's Water Resource Recovery Facility September Pollution Monitoring Summary



EPL 1729

Summary period: 01-09-2023 to 30-09-2023 Licensee: Sydney Water Corporation

Date obtained: 09-10-2023 PO Box 399

Date published: 13-10-2023 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			
nitrogen (total)	mg/L	every 6 days	-	_	45	8.74	yes			
phosphorus	mg/L	every 6 days	-	_	5	0.1	yes			
total suspended solids	mg/L	monthly	10	<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	-	-	146
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	-	-	15.3
diazinon	ug/L	monthly	1	-	-	<0.1
faecal coliforms	CFU/100mL	every 6 days	5	<1	9	25
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
iron	ug/L	monthly	1	-	-	102
nickel	ug/L	monthly	1	-	-	3.9
nitrogen (ammonia)	mg/L	every 6 days	5	0.02	0.08	0.31
nitrogen (total)	mg/L	every 6 days	5	4.14	6.58	8.74
phosphorus	mg/L	every 6 days	5	0.04	0.07	0.1
total suspended solids	mg/L	every 6 days	5	<2	<2	<2
zinc	ug/L	monthly	1	-	-	34

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 Mary's Water Resource Recovery Facility August Pollution Monitoring Summary



EPL 1729

Summary period: 01-08-2023 to 31-08-2023 Licensee: Sydney Water Corporation

Date obtained: 05-09-2023 PO Box 399

Date published: 14-09-2023 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			
nitrogen (total)	mg/L	every 6 days	-	-	45	6.17	yes			
phosphorus	mg/L	every 6 days	-	-	5	0.06	yes			
total suspended solids	mg/L	monthly	10	3	-	-	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	-	-	128			
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	-	-	9.9			
diazinon	ug/L	monthly	1	-	-	<0.1			
faecal coliforms	CFU/100mL	every 6 days	5	<1	1	3			
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30			
iron	ug/L	monthly	1	-	-	79			
nickel	ug/L	monthly	1	-	-	3.3			
nitrogen (ammonia)	mg/L	every 6 days	5	0.02	0.02	0.03			
nitrogen (total)	mg/L	every 6 days	5	3.73	4.75	6.17			
phosphorus	mg/L	every 6 days	5	0.05	0.05	0.06			
total suspended solids	mg/L	every 6 days	5	<2	<2	5			
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 Mary's Water Resource Recovery Facility July Pollution Monitoring Summary



EPL 1729

Summary period: 01-07-2023 to 31-07-2023 Licensee: Sydney Water Corporation

Date obtained: 08-08-2023 PO Box 399

Date published: 15-08-2023 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			
nitrogen (total)	mg/L	every 6 days	-	_	45	4.51	yes			
phosphorus	mg/L	every 6 days	-	_	5	0.06	yes			
total suspended solids	mg/L	monthly	10	<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	_	-	137			
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	-	-	9.7			
diazinon	ug/L	monthly	1	-	-	<0.1			
faecal coliforms	CFU/100mL	every 6 days	6	2	3	7			
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30			
iron	ug/L	monthly	1	-	-	66			
nickel	ug/L	monthly	1	-	-	3.2			
nitrogen (ammonia)	mg/L	every 6 days	5	0.02	0.04	0.08			
nitrogen (total)	mg/L	every 6 days	5	4.11	4.31	4.51			
phosphorus	mg/L	every 6 days	5	0.04	0.05	0.06			
total suspended solids	mg/L	every 6 days	5	<2	<2	<2			
zinc	ug/L	monthly	1	-	-	31			

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.