North Richmond Water Resource Recovery Facility June Pollution Monitoring Summary

EPL 190

Summary period: 01-06-2023 to 30-06-2023

Date obtained: 05-07-2023

Date published: 19-07-2023

Sydney **WAT ₹R**

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 4 Site code NR0004	Point description: Downstream of the weir from the disinfection facilities							
pollutant	unit of measure	3DGM limit 3DGM Actual within limits						
biochemical oxygen demand	mg/L	monthly	30	<2	yes			
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	yes			
total suspended solids	mg/L	monthly	10	2	yes			

³ Day Geometric Mean (3DGM) is a way to average a set of values and is commonly used with water quality assessments which show a great deal of variability. 3DGM is calculated by multiplying the results of the analysis of three samples collected on three consecutive days and then taking the cubed root of that amount.

Table 2: Routine monitoring data

EPA Point 4 Site code NR0004	Point description: Downstream of the weir from the disinfection facilities						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result	
aluminium	ug/L	monthly	1	_	_	301	
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	_	-	4.4	
diazinon	ug/L	monthly	1	_	_	<0.1	
iron	ug/L	monthly	1	_	-	9	
nitrogen (ammonia)	mg/L	every 6 days	5	0.75	0.92	1.03	
nitrogen (total)	mg/L	every 6 days	5	7.3	7.64	8.49	
phosphorus (total)	mg/L	every 6 days	5	0.08	0.09	0.11	
total suspended solids	mg/L	every 6 days	5	<2	<2	2	
zinc	ug/L	monthly	1	-	-	35	

EPA Point 5 Site code NR0005	Point description: Outlet of the disinfection facilities unit of sampling number of minimum mean maximum measure frequency samples result result result						
pollutant							
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	_	100	
faecal coliforms	CFU/100mL	every 6 days	5	<1	2	4	
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30	

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

North Richmond Water Resource Recovery Facility May Pollution Monitoring Summary

EPL 190

Summary period: 01-05-2023 to 31-05-2023

Date obtained: 06-06-2023

Date published: 13-06-2023

Sydney **WAT ₹R**

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 4 Site code NR0004	Point description: Downstream of the weir from the disinfection facilities							
pollutant	unit of measure	3DGM limit 3DGM Actual within limits						
biochemical oxygen demand	mg/L	monthly	30	<2	yes			
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	yes			
total suspended solids	mg/L	monthly	10	2	yes			

³ Day Geometric Mean (3DGM) is a way to average a set of values and is commonly used with water quality assessments which show a great deal of variability. 3DGM is calculated by multiplying the results of the analysis of three samples collected on three consecutive days and then taking the cubed root of that amount.

Table 2: Routine monitoring data

EPA Point 4 Site code NR0004	Point description: Downstream of the weir from the disinfection facilities						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result	
aluminium	ug/L	monthly	1	_	_	241	
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	-	-	4.8	
diazinon	ug/L	monthly	1	_	-	<0.1	
iron	ug/L	monthly	1	_	-	13	
nitrogen (ammonia)	mg/L	every 6 days	5	0.4	0.6	0.96	
nitrogen (total)	mg/L	every 6 days	5	6.38	7.44	8.13	
phosphorus (total)	mg/L	every 6 days	5	0.09	0.16	0.31	
total suspended solids	mg/L	every 6 days	5	<2	<2	3	
zinc	ug/L	monthly	1	-	_	24	

EPA Point 5 Site code NR0005	Point description: Outlet of the disinfection facilities unit of sampling number of minimum mean maximum measure frequency samples result result result						
pollutant							
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	_	100	
faecal coliforms	CFU/100mL	every 6 days	5	1	9	15	
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30	

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

North Richmond Water Resource Recovery Facility Sydney WAT **₹**R

April Pollution Monitoring Summary

EPL 190

Summary period: 01-04-2023 to 30-04-2023 Licensee: Sydney Water Corporation

Date obtained: 10-05-2023 PO Box 399

Date published: 19-05-2023 PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 4 Site code NR0004	Point description: Downstream of the weir from the disinfection facilities							
pollutant	unit of measure	3DGM limit 3DGM Actual within limits						
biochemical oxygen demand	mg/L	monthly	30	<2	yes			
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	yes			
total suspended solids	mg/L	monthly	10	2	yes			

3 Day Geometric Mean (3DGM) is a way to average a set of values and is commonly used with water quality assessments which show a great deal of variability. 3DGM is calculated by multiplying the results of the analysis of three samples collected on three consecutive days and then taking the cubed root of that amount.

Table 2: Routine monitoring data

EPA Point 4 Site code NR0004	Point description: Downstream of the weir from the disinfection facilities						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result	
aluminium	ug/L	monthly	1	_	-	227	
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	_	-	3.8	
diazinon	ug/L	monthly	1	_	-	<0.1	
iron	ug/L	monthly	1	_	-	17	
nitrogen (ammonia)	mg/L	every 6 days	5	0.27	0.42	0.51	
nitrogen (total)	mg/L	every 6 days	5	6.07	6.71	7.05	
phosphorus (total)	mg/L	every 6 days	5	0.12	0.17	0.26	
total suspended solids	mg/L	every 6 days	5	2	3	5	
zinc	ug/L	monthly	1	-	-	19	

EPA Point 5 Site code NR0005	Point description: Outlet of the disinfection facilities unit of sampling number of minimum mean maximum measure frequency samples result result result						
pollutant							
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	_	100	
faecal coliforms	CFU/100mL	every 6 days	5	6	24	51	
hydrogen sulphide (unionised)	ug/L	monthly	1	-	_	<30	

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

North Richmond Water Resource Recovery Facility March Pollution Monitoring Summary

EPL 190

Summary period: 01-03-2023 to 31-03-2023

Date obtained: 12-04-2023

Date published: 14-04-2023

Sydney WAT ₹R

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 4 Site code NR0004	Point description: Downstream of the weir from the disinfection facilities								
pollutant	unit of measure	3DGM Actual within limits							
biochemical oxygen demand	mg/L	monthly	30	<2	yes				
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	yes				
total suspended solids	mg/L	monthly	10	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 NR0004	Point description: Downstream of the weir from the disinfection facilities						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result	
aluminium	ug/L	monthly	1	_	-	288	
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	_	-	3.7	
diazinon	ug/L	monthly	1	-	-	<0.1	
iron	ug/L	monthly	1	-	-	23	
nitrogen (ammonia)	mg/L	every 6 days	5	0.58	0.71	0.89	
nitrogen (total)	mg/L	every 6 days	5	5.54	5.99	6.8	
phosphorus (total)	mg/L	every 6 days	5	0.22	0.29	0.42	
total suspended solids	mg/L	every 6 days	5	<2	3	5	
zinc	ug/L	monthly	1	-	_	18	

EPA Point 5 Site code NR0005	Point description: Outlet of the disinfection facilities						
pollutant	unit of sampling number of minimum mean maximum measure frequency samples result result result						
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	_	_	100	
faecal coliforms	CFU/100mL	every 6 days	6	3	1449	8,600	
hydrogen sulphide (unionised)	ug/L	monthly	1	_	_	<30	

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

North Richmond Water Resource Recovery Facility February Pollution Monitoring Summary Sydney WAT≅R

EPL 190

Summary period: 01-02-2023 to 28-02-2023 Licensee: Sydney Water Corporation

Date obtained: 08-03-2023 PO Box 399

Date published: 17-03-2023 PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 4 Site code NR0004	Point description: Downstream of the weir from the disinfection facilities								
pollutant	unit of measure	3DGM limit 3DGM Actual within limits							
biochemical oxygen demand	mg/L	monthly	30	3	yes				
carbonaceous biochemical oxygen demand	mg/L	monthly	30	2	yes				
total suspended solids	mg/L	monthly	10	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 NR0004	Point descrip facilities	tion: Downstrea	ım of the weir	from the di	disinfection				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result			
aluminium	ug/L	monthly	1	-	-	436			
biochemical oxygen demand	mg/L	every 6 days	5	<2	2	3			
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	2			
copper	ug/L	monthly	1	-	-	4			
cyanide	ug/L	bi-annual	1	-	-	<5			
diazinon	ug/L	monthly	1	-	-	<0.1			
iron	ug/L	monthly	1	-	-	38			
nitrogen (ammonia)	mg/L	every 6 days	5	0.86	1.09	1.31			
nitrogen (total)	mg/L	every 6 days	5	5.66	7.84	9.32			
phosphorus (total)	mg/L	every 6 days	5	0.15	0.33	0.61			
total suspended solids	mg/L	every 6 days	5	3	4	8			
zinc	ug/L	monthly	1	_	-	23			

EPA Point 5 Site code NR0005	Point description: Outlet of the disinfection facilities							
pollutant	unit of measure							
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	_	100		
faecal coliforms	CFU/100mL	every 6 days	4	26	107	320		
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30		

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

North Richmond Water Resource Recovery Facility January Pollution Monitoring Summary

EPL 190

Summary period: 01-01-2023 to 31-01-2023

Date obtained: 06-02-2023

Date published: 15-02-2023

Sydney **WAT≨R**

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 4 Site code NR0004	Point description: Downstream of the weir from the disinfection facilities							
pollutant	unit of measure	3DGM limit 3DGM Actual within limits						
biochemical oxygen demand	mg/L	monthly	30	2	yes			
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	yes			
total suspended solids	mg/L	monthly	10	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 NR0004	Point description: Downstream of the weir from the disinfection facilities						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result	
aluminium	ug/L	monthly	1	_	-	385	
biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	3	
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2	
copper	ug/L	monthly	1	_	-	6.8	
diazinon	ug/L	monthly	1	_	_	<0.1	
iron	ug/L	monthly	1	_	-	10	
nitrogen (ammonia)	mg/L	every 6 days	5	0.28	0.84	1.43	
nitrogen (total)	mg/L	every 6 days	5	5.67	6.97	8.06	
phosphorus (total)	mg/L	every 6 days	5	0.28	0.43	0.62	
total suspended solids	mg/L	every 6 days	5	3	4	5	
zinc	ug/L	monthly	1	-	_	29	

EPA Point 5 Site code NR0005	Point description: Outlet of the disinfection facilities unit of sampling number of minimum mean maximum measure frequency samples result result result						
pollutant							
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	_	100	
faecal coliforms	CFU/100mL	every 6 days	5	23	43	67	
hydrogen sulphide (unionised)	ug/L	monthly	1	-	_	<30	

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

North Richmond Water Resource Recovery Facility December Pollution Monitoring Summary

EPL 190

Summary period: 01-12-2022 to 31-12-2022

Date obtained: 10-01-2023

Date published: 18-01-2023

Sydney **WAT ₹R**

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 4 Site code NR0004	Point description: Downstream of the weir from the disinfection facilities							
pollutant	unit of measure	3DGM limit 3DGM Actual within limits						
biochemical oxygen demand	mg/L	monthly	30	<2	yes			
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	yes			
total suspended solids	mg/L	monthly	10	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 NR0004	Point description: Downstream of the weir from the disinfection facilities						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result	
aluminium	ug/L	monthly	1	_	_	374	
biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	4	
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2	
copper	ug/L	monthly	1	-	-	7	
diazinon	ug/L	monthly	1	-	-	<0.1	
iron	ug/L	monthly	1	-	-	16	
nitrogen (ammonia)	mg/L	every 6 days	5	0.45	0.74	1.19	
nitrogen (total)	mg/L	every 6 days	5	6.08	7.65	9.31	
phosphorus (total)	mg/L	every 6 days	5	0.15	0.36	0.55	
total suspended solids	mg/L	every 6 days	5	<2	2	5	
zinc	ug/L	monthly	1	-	-	27	

EPA Point 5 Site code NR0005	Point description: Outlet of the disinfection facilities unit of sampling number of minimum mean maximum measure frequency samples result result result						
pollutant							
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	_	100	
faecal coliforms	CFU/100mL	every 6 days	6	3	61	270	
hydrogen sulphide (unionised)	ug/L	monthly	1	_	-	<30	

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

North Richmond Water Resource Recovery Facility November Pollution Monitoring Summary

EPL 190

Summary period: 01-11-2022 to 30-11-2022

Date obtained: 09-12-2022

Date published: 16-12-2022

Sydney **WAT ₹R**

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 4 Site code NR0004	Point description: Downstream of the weir from the disinfection facilities								
pollutant	unit of measure	3DGM limit 3DGM Actual within limits							
biochemical oxygen demand	mg/L	monthly	30	<2	yes				
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	yes				
total suspended solids	mg/L	monthly	10	2	yes				

³ Day Geometric Mean (3DGM) is a way to average a set of values and is commonly used with water quality assessments which show a great deal of variability. 3DGM is calculated by multiplying the results of the analysis of three samples collected on three consecutive days and then taking the cubed root of that amount.

Table 2: Routine monitoring data

EPA Point 4 Site code NR0004	Point description: Downstream of the weir from the disinfection facilities						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result	
aluminium	ug/L	monthly	1	_	-	263	
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	_	-	3.7	
diazinon	ug/L	monthly	1	_	_	<0.1	
iron	ug/L	monthly	1	_	-	32	
nitrogen (ammonia)	mg/L	every 6 days	5	0.39	0.73	1.05	
nitrogen (total)	mg/L	every 6 days	5	5.61	5.77	6.07	
phosphorus (total)	mg/L	every 6 days	5	0.10	0.12	0.15	
total suspended solids	mg/L	every 6 days	5	<2	2	4	
zinc	ug/L	monthly	1	-	-	20	

EPA Point 5 Site code NR0005	Point description: Outlet of the disinfection facilities unit of sampling number of minimum mean maximum measure frequency samples result result result						
pollutant							
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	_	100	
faecal coliforms	CFU/100mL	every 6 days	5	1	33	130	
hydrogen sulphide (unionised)	ug/L	monthly	1	_	-	<30	

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

North Richmond Water Resource Recovery Facility October Pollution Monitoring Summary

EPL 190

Summary period: 01-10-2022 to 31-10-2022

Date obtained: 07-11-2022

Date published: 16-11-2022

Sydney **WAT ₹R**

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 4 Site code NR0004	Point description: Downstream of the weir from the disinfection facilities							
pollutant	unit of measure	3DGM limit 3DGM Actual within limits						
biochemical oxygen demand	mg/L	monthly	30	2	yes			
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	yes			
total suspended solids	mg/L	monthly	10	5	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 NR0004	Point description: Downstream of the weir from the disinfection facilities						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result	
aluminium	ug/L	monthly	1	_	-	622	
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	
copper	ug/L	monthly	1	_	-	3.7	
diazinon	ug/L	monthly	1	-	-	<0.1	
iron	ug/L	monthly	1	-	-	34	
nitrogen (ammonia)	mg/L	every 6 days	6	1.1	1.29	1.5	
nitrogen (total)	mg/L	every 6 days	6	5.84	6.8	8.31	
phosphorus (total)	mg/L	every 6 days	6	0.16	0.24	0.3	
total suspended solids	mg/L	every 6 days	6	4	6	10	
zinc	ug/L	monthly	1	-	_	21	

EPA Point 5 Site code NR0005	Point description: Outlet of the disinfection facilities unit of sampling number of minimum mean maximum measure frequency samples result result result						
pollutant							
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	_	100	
faecal coliforms	CFU/100mL	every 6 days	5	1	50	150	
hydrogen sulphide (unionised)	ug/L	monthly	1	-	_	<30	

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

North Richmond Water Resource Recovery Facility September Pollution Monitoring Summary

EPL 190

Summary period: 01-09-2022 to 30-09-2022

Date obtained: 06-10-2022

Date published: 14-10-2022

Sydney **WAT≨R**

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 4 Site code NR0004	Point description: Downstream of the weir from the disinfection facilities							
pollutant	unit of measure	3DGM limit 3DGM Actual within limits						
biochemical oxygen demand	mg/L	monthly	30	2	yes			
carbonaceous biochemical oxygen demand	mg/L	monthly	30	2	yes			
total suspended solids	mg/L	monthly	10	5	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 NR0004	Point description: Downstream of the weir from the disinfection facilities						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result	
aluminium	ug/L	monthly	1	_	-	555	
biochemical oxygen demand	mg/L	every 6 days	5	2	2.2	3	
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	2	
copper	ug/L	monthly	1	_	-	3.9	
diazinon	ug/L	monthly	1	-	_	<0.1	
iron	ug/L	monthly	1	-	_	41	
nitrogen (ammonia)	mg/L	every 6 days	5	1.16	1.28	1.48	
nitrogen (total)	mg/L	every 6 days	5	5.87	6.37	6.75	
phosphorus (total)	mg/L	every 6 days	5	0.17	0.19	0.22	
total suspended solids	mg/L	every 6 days	5	5	6	7	
zinc	ug/L	monthly	1	-	_	22	

EPA Point 5 Site code NR0005	Point description: Outlet of the disinfection facilities unit of sampling number of minimum mean maximum measure frequency samples result result result						
pollutant							
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	_	_	100	
faecal coliforms	CFU/100mL	every 6 days	5	<1	5	11	
hydrogen sulphide (unionised)	ug/L	monthly	1	_	_	<30	

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

Effluent quality monitoring results obtained from EPA Points 4 and 5 are used to indicate the quality of water discharged at

EPA Point 1 (discharge to waters).

North Richmond Water Resource Recovery Facility August Pollution Monitoring Summary

EPL 190

Summary period: 01-08-2022 to 31-08-2022

Date obtained: 05-09-2022

Date published: 09-09-2022

Sydney **WAT ₹R**

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 4 Site code NR0004	Point description: Downstream of the weir from the disinfection facilities							
pollutant	unit of measure	3DGM limit 3DGM Actual within limits						
biochemical oxygen demand	mg/L	monthly	30	2	yes			
carbonaceous biochemical oxygen demand	mg/L	monthly	30	2	yes			
total suspended solids	mg/L	monthly	10	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 NR0004	Point descrip facilities	tion: Downstrea	ım of the weir	from the di	he disinfection				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result			
aluminium	ug/L	monthly	1	-	-	666			
biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	3			
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	2			
copper	ug/L	monthly	1	-	-	3.9			
cyanide	ug/L	bi-annual	1	-	-	<5			
diazinon	ug/L	monthly	1	-	-	<0.1			
iron	ug/L	monthly	1	-	-	53			
nitrogen (ammonia)	mg/L	every 6 days	5	1.76	1.95	2.05			
nitrogen (total)	mg/L	every 6 days	5	5.99	6.89	7.5			
phosphorus (total)	mg/L	every 6 days	5	0.11	0.16	0.22			
total suspended solids	mg/L	every 6 days	5	2	5	9			
zinc	ug/L	monthly	1	-	-	26			

EPA Point 5 Site code NR0005	Point description: Outlet of the disinfection facilities						
pollutant	unit ofsamplingnumber ofminimummeanmaximummeasurefrequencysamplesresultresultresult						
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	_	100	
faecal coliforms	CFU/100mL	every 6 days	5	<1	5	23	
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30	

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

North Richmond Water Resource Recovery Facility July Pollution Monitoring Summary

EPL 190

Summary period: 01-07-2022 to 31-07-2022

Date obtained: 08-08-2022

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Sydney **WAT ₹R**

Licensee: Sydney Water Corporation

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Table 1: 3 Day Geometric Mean data

EPA Point 4 Site code NR0004	Point description: Downstream of the weir from the disinfection facilities								
pollutant	unit of measure	3DGM limit 3DGM Actual within limits							
biochemical oxygen demand	mg/L	monthly	30	<2	yes				
carbonaceous biochemical oxygen demand	mg/L	mg/L monthly 30 <2 yes							
total suspended solids	mg/L	monthly	10	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 NR0004	Point description: Downstream of the weir from the disinfection facilities						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result	
aluminium	ug/L	monthly	1	_	-	835	
biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	5	
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	3	
copper	ug/L	monthly	1	-	-	3.4	
diazinon	ug/L	monthly	1	-	-	<0.1	
iron	ug/L	monthly	1	-	-	58	
nitrogen (ammonia)	mg/L	every 6 days	5	0.75	1.11	1.62	
nitrogen (total)	mg/L	every 6 days	5	4.32	5.46	6.34	
phosphorus (total)	mg/L	every 6 days	5	0.08	0.16	0.23	
total suspended solids	mg/L	every 6 days	5	4	7	12	
zinc	ug/L	monthly	1	-	_	22	

EPA Point 5 Site code NR0005	Point description: Outlet of the disinfection facilities unit of sampling number of minimum mean maximum measure frequency samples result result result						
pollutant							
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	_	100	
faecal coliforms	CFU/100mL	every 6 days	5	1	1521	7,600	
hydrogen sulphide (unionised)	ug/L	monthly	1	-	_	<30	

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