# Richmond Water Resource Recovery Facility June Pollution Monitoring Summary

# Sydney WATER

### EPL 1726

Summary period: 01-06-2024 to 30-06-2024 Date obtained: 08-07-2024 Date published: 22-07-2024 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

### Table 1: Routine monitoring data

EPA Point 16 Site code RM0016	Point description: Outlet of dechlorination tank						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result	
biochemical oxygen demand	mg/L	every 6 days during discharge	5	<2	<2	<2	
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly during discharge	1	-	-	100	
chlorine (total residual)	mg/L	every 6 days during discharge	5	<0.04	<0.04	<0.04	
faecal coliforms	CFU/100mL	every 6 days during discharge	5	<1	2	6	
nitrogen (ammonia)	mg/L	every 6 days during discharge	5	<0.1	<0.1	<0.1	
nitrogen (total)	mg/L	every 6 days during discharge	5	5.66	7.13	8.53	
phosphorus (total)	mg/L	every 6 days during discharge	5	0.01	0.01	0.02	
total suspended solids	mg/L	every 6 days during discharge	5	<2	<2	<2	

EPA Point 17 Site code RM0017	Point descript	Point description: Inlet to recycled water pump station							
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result			
biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2			
chlorine (total residual)	mg/L	every 6 days	5	1.81	2.34	3.2			
faecal coliforms	CFU/100mL	every 6 days	5	<1	<1	<1			
nitrogen (ammonia)	mg/L	every 6 days	5	<0.01	<0.01	0.01			
nitrogen (total)	mg/L	every 6 days	5	5.14	6.45	7.88			
phosphorus (total)	mg/L	every 6 days	5	0.01	0.02	0.02			
total suspended solids	mg/L	every 6 days	5	<2	<2	<2			

Average and percentile limits are only applied annually for routine monitoring data in Table 1.

# Richmond Water Resource Recovery Facility May Pollution Monitoring Summary

# Sydney WATER

### EPL 1726

Summary period: 01-05-2024 to 31-05-2024 Date obtained: 11-06-2024 Date published: 21-06-2024 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

### Table 1: Routine monitoring data

EPA Point 16 Site code RM0016	Point description: Outlet of dechlorination tank						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result	
biochemical oxygen demand	mg/L	every 6 days during discharge	5	<2	<2	<2	
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly during discharge	1	-	-	100	
chlorine (total residual)	mg/L	every 6 days during discharge	5	<0.04	<0.04	<0.04	
faecal coliforms	CFU/100mL	every 6 days during discharge	5	<1	<1	<1	
nitrogen (ammonia)	mg/L	every 6 days during discharge	5	<0.1	<0.1	<0.1	
nitrogen (total)	mg/L	every 6 days during discharge	5	5.66	7.33	8.2	
phosphorus (total)	mg/L	every 6 days during discharge	5	0.01	0.02	0.02	
total suspended solids	mg/L	every 6 days during discharge	5	<2	<2	<2	

EPA Point 17 Site code RM0017	Point descript	Point description: Inlet to recycled water pump station							
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result			
biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2			
chlorine (total residual)	mg/L	every 6 days	5	1.88	2.32	2.8			
faecal coliforms	CFU/100mL	every 6 days	5	<1	<1	<1			
nitrogen (ammonia)	mg/L	every 6 days	5	<0.01	<0.01	0.01			
nitrogen (total)	mg/L	every 6 days	5	6.13	6.85	8.15			
phosphorus (total)	mg/L	every 6 days	5	0.01	0.02	0.02			
total suspended solids	mg/L	every 6 days	5	<2	<2	<2			

Average and percentile limits are only applied annually for routine monitoring data in Table 1.

# Richmond Water Resource Recovery Facility April Pollution Monitoring Summary

### EPL 1726

Summary period: 01-04-2024 to 30-04-2024 Date obtained: 07-05-2024 Date published: 20-05-2024



Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

### Table 1: Routine monitoring data

EPA Point 16 Site code RM0016	Point description: Outlet of dechlorination tank						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result	
biochemical oxygen demand	mg/L	every 6 days during discharge	5	<2	<2	<2	
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly during discharge	1	-	-	100	
chlorine (total residual)	mg/L	every 6 days during discharge	5	<0.04	0.36	1.79	
faecal coliforms	CFU/100mL	every 6 days during discharge	5	<1	<1	2	
nitrogen (ammonia)	mg/L	every 6 days during discharge	5	<0.1	0.68	3.4	
nitrogen (total)	mg/L	every 6 days during discharge	5	6.93	7.86	8.85	
phosphorus (total)	mg/L	every 6 days during discharge	5	0.01	0.03	0.07	
total suspended solids	mg/L	every 6 days during discharge	5	<2	<2	<2	

EPA Point 17 Site code RM0017	Point description: Inlet to recycled water pump station							
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result		
biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2		
chlorine (total residual)	mg/L	every 6 days	5	<0.04	2.83	8		
faecal coliforms	CFU/100mL	every 6 days	5	<1	<1	<1		
nitrogen (ammonia)	mg/L	every 6 days	5	<0.01	0.24	1.2		
nitrogen (total)	mg/L	every 6 days	5	6.96	7.68	8.86		
phosphorus (total)	mg/L	every 6 days	5	0.02	0.02	0.03		
total suspended solids	mg/L	every 6 days	5	<2	<2	<2		

Average and percentile limits are only applied annually for routine monitoring data in Table 1.

# Richmond Water Resource Recovery Facility March Pollution Monitoring Summary

### EPL 1726

Summary period: 01-03-2024 to 31-03-2024 Date obtained: 08-04-2024 Date published: 18-04-2024 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

Sydney WATER

### Table 1: Routine monitoring data

EPA Point 16 Site code RM0016	Point description: Outlet of dechlorination tank						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result	
biochemical oxygen demand	mg/L	every 6 days during discharge	6	<2	<2	<2	
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly during discharge	1	-	-	100	
chlorine (total residual)	mg/L	every 6 days during discharge	6	<0.04	<0.04	<0.04	
faecal coliforms	CFU/100mL	every 6 days during discharge	6	1	5	10	
nitrogen (ammonia)	mg/L	every 6 days during discharge	6	<0.1	<0.1	<0.1	
nitrogen (total)	mg/L	every 6 days during discharge	6	7.92	9.75	11.7	
phosphorus (total)	mg/L	every 6 days during discharge	6	0.02	0.02	0.02	
total suspended solids	mg/L	every 6 days during discharge	6	<2	<2	<2	

EPA Point 17 Site code RM0017	Point descript	Point description: Inlet to recycled water pump station							
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result			
biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2			
chlorine (total residual)	mg/L	every 6 days	6	0.99	1.8	2.6			
faecal coliforms	CFU/100mL	every 6 days	6	<1	<1	<1			
nitrogen (ammonia)	mg/L	every 6 days	5	<0.01	<0.01	0.01			
nitrogen (total)	mg/L	every 6 days	5	8.76	9.74	11.4			
phosphorus (total)	mg/L	every 6 days	5	0.02	0.02	0.03			
total suspended solids	mg/L	every 6 days	5	<2	<2	<2			

Average and percentile limits are only applied annually for routine monitoring data in Table 1.

# Richmond Water Resource Recovery Facility February Pollution Monitoring Summary

# Sydney WATER

### EPL 1726

Summary period: 01-02-2024 to 29-02-2024 Date obtained: 11-03-2024 Date published: 22-03-2024 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

### Table 1: Routine monitoring data

EPA Point 16 Site code RM0016	Point description: Outlet of dechlorination tank						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result	
biochemical oxygen demand	mg/L	every 6 days during discharge	4	<2	<2	<2	
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly during discharge	1	-	-	100	
chlorine (total residual)	mg/L	every 6 days during discharge	4	<0.04	<0.04	<0.04	
faecal coliforms	CFU/100mL	every 6 days during discharge	4	<1	24	74	
nitrogen (ammonia)	mg/L	every 6 days during discharge	4	<0.1	0.43	1.7	
nitrogen (total)	mg/L	every 6 days during discharge	4	5.51	7.42	8.96	
phosphorus (total)	mg/L	every 6 days during discharge	4	0.02	0.03	0.04	
total suspended solids	mg/L	every 6 days during discharge	4	<2	<2	<2	

EPA Point 17 Site code RM0017	Point descript	Point description: Inlet to recycled water pump station							
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result			
biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2			
chlorine (total residual)	mg/L	every 6 days	4	0.86	2.56	5			
faecal coliforms	CFU/100mL	every 6 days	4	<1	<1	<1			
nitrogen (ammonia)	mg/L	every 6 days	5	<0.01	<0.01	0.01			
nitrogen (total)	mg/L	every 6 days	5	5.95	7.88	9.92			
phosphorus (total)	mg/L	every 6 days	5	0.02	0.02	0.02			
total suspended solids	mg/L	every 6 days	5	<2	<2	2			

Average and percentile limits are only applied annually for routine monitoring data in Table 1.

# Richmond Water Resource Recovery Facility January Pollution Monitoring Summary

# Sydney WATER

### EPL 1726

Summary period: 01-01-2024 to 31-01-2024 Date obtained: 07-02-2024 Date published: 19-02-2024 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

#### Table 1: Routine monitoring data

EPA Point 16 Site code RM0016	Point description: Outlet of dechlorination tank						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result	
biochemical oxygen demand	mg/L	every 6 days during discharge	5	<2	<2	<2	
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly during discharge	1	-	-	100	
chlorine (total residual)	mg/L	every 6 days during discharge	5	<0.04	<0.04	0.04	
faecal coliforms	CFU/100mL	every 6 days during discharge	5	4	15	29	
nitrogen (ammonia)	mg/L	every 6 days during discharge	5	<0.1	<0.1	<0.1	
nitrogen (total)	mg/L	every 6 days during discharge	5	4	6.26	7.14	
phosphorus (total)	mg/L	every 6 days during discharge	5	0.01	0.02	0.02	
total suspended solids	mg/L	every 6 days during discharge	5	<2	<2	<2	

EPA Point 17 Site code RM0017	Point description: Inlet to recycled water pump station							
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result		
biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2		
chlorine (total residual)	mg/L	every 6 days	6	0.53	1.58	2.9		
faecal coliforms	CFU/100mL	every 6 days	6	<1	<1	<1		
nitrogen (ammonia)	mg/L	every 6 days	5	<0.01	0.11	0.53		
nitrogen (total)	mg/L	every 6 days	5	4.71	5.9	6.37		
phosphorus (total)	mg/L	every 6 days	5	0.01	0.02	0.02		
total suspended solids	mg/L	every 6 days	5	<2	<2	<2		

Average and percentile limits are only applied annually for routine monitoring data in Table 1.

Effluent quality monitoring results obtained from EPA Point 16 are used to indicate the quality of water discharged at EPA Point 12 (discharge to waters).

Discharge from EPA point 16 (RM0016) was off-line on the 1st of January 2024 during scheduled 6 day sampling events.

# Richmond Water Resource Recovery Facility December Pollution Monitoring Summary

### EPL 1726

Summary period: 01-12-2023 to 31-12-2023 Date obtained: 10-01-2024 Date published: 22-01-2024 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

Sydney

#### Table 1: Routine monitoring data

EPA Point 16 Site code RM0016	Point description: Outlet of dechlorination tank					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
biochemical oxygen demand	mg/L	every 6 days during discharge	1	-	-	<2
chlorine (total residual)	mg/L	every 6 days during discharge	1	-	-	<0.04
faecal coliforms	CFU/100mL	every 6 days during discharge	1	_	-	110
nitrogen (ammonia)	mg/L	every 6 days during discharge	1	-	-	<0.1
nitrogen (total)	mg/L	every 6 days during discharge	1	_	_	4.58
phosphorus (total)	mg/L	every 6 days during discharge	1	_	_	0.03
total suspended solids	mg/L	every 6 days during discharge	1	_	-	<2
EPA Point 17						

Site code RM0017	Point description: Inlet to recycled water pump station					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
biochemical oxygen demand	mg/L	every 6 days	6	<2	<2	<2
chlorine (total residual)	mg/L	every 6 days	5	0.95	1.67	2.5
faecal coliforms	CFU/100mL	every 6 days	5	<1	<1	1
nitrogen (ammonia)	mg/L	every 6 days	6	<0.01	<0.01	<0.01
nitrogen (total)	mg/L	every 6 days	6	4.3	5.27	5.76
phosphorus (total)	mg/L	every 6 days	6	0.01	0.02	0.03
total suspended solids	mg/L	every 6 days	6	<2	<2	<2

Average and percentile limits are only applied annually for routine monitoring data in Table 1.

Effluent quality monitoring results obtained from EPA Point 16 are used to indicate the quality of water discharged at EPA Point 12 (discharge to waters).

Discharge from EPA point 16 (RM0016) was off-line on the 2nd, 8th, 14th and 26th of December 2023 during scheduled 6 day sampling events.

# Richmond Water Resource Recovery Facility November Pollution Monitoring Summary

### EPL 1726

Summary period: 01-11-2023 to 30-11-2023 Date obtained: 06-12-2023 Date published: 14-12-2023



Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

#### Table 1: Routine monitoring data

EPA Point 16 Site code RM0016	Point description: Outlet of dechlorination tank					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
biochemical oxygen demand	mg/L	every 6 days during discharge	1	-	-	<2
chlorine (total residual)	mg/L	every 6 days during discharge	1	_	_	<0.04
faecal coliforms	CFU/100mL	every 6 days during discharge	1	_	_	87
nitrogen (ammonia)	mg/L	every 6 days during discharge	1	_	-	<0.1
nitrogen (total)	mg/L	every 6 days during discharge	1	_	_	4.15
phosphorus (total)	mg/L	every 6 days during discharge	1	-	_	0.02
total suspended solids	mg/L	every 6 days during discharge	1	_	-	<2
EPA Point 17	Point descript	tion: Inlot to rec	velod wator p	ump station		

Site code RM0017	Found description. The to recycled water pump station					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2
chlorine (total residual)	mg/L	every 6 days	5	1.13	1.61	2
faecal coliforms	CFU/100mL	every 6 days	5	<1	<1	<1
nitrogen (ammonia)	mg/L	every 6 days	5	<0.01	<0.01	0.01
nitrogen (total)	mg/L	every 6 days	5	4.99	5.48	5.98
phosphorus (total)	mg/L	every 6 days	5	0.02	0.03	0.03
total suspended solids	mg/L	every 6 days	5	<2	<2	<2

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

Effluent quality monitoring results obtained from EPA Point 16 are used to indicate the quality of water discharged at EPA Point 12 (discharge to waters).

Discharge from EPA point 16 (RM0016) was off-line on the 2nd, 8th, 14th and 20th of November 2023 during scheduled 6 day sampling events.

# Richmond Water Resource Recovery Facility October Pollution Monitoring Summary

### EPL 1726

Summary period: 01-10-2023 to 31-10-2023 Date obtained: 03-11-2023 Date published: 17-11-2023



Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

#### Table 1: Routine monitoring data

EPA Point 17 Site code RM0017	Point description: Inlet to recycled water pump station					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2
chlorine (total residual)	mg/L	every 6 days	5	1.47	1.71	1.84
faecal coliforms	CFU/100mL	every 6 days	5	<1	<1	<1
nitrogen (ammonia)	mg/L	every 6 days	5	<0.01	<0.01	0.01
nitrogen (total)	mg/L	every 6 days	5	6.4	7	7.29
phosphorus (total)	mg/L	every 6 days	5	0.03	0.04	0.05
total suspended solids	mg/L	every 6 days	5	<2	<2	<2

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

Effluent quality monitoring results obtained from EPA Point 16 are used to indicate the quality of water discharged at EPA Point 12 (discharge to waters).

Discharge from EPA point 16 (RM0016) was off-line for the month of October 2023 during scheduled 6 day sampling events.

# Richmond Water Resource Recovery Facility September Pollution Monitoring Summary

### EPL 1726

Summary period: 01-09-2023 to 30-09-2023 Date obtained: 03-10-2023 Date published: 13-10-2023



Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

#### Table 1: Routine monitoring data

EPA Point 17 Site code RM0017	Point description: Inlet to recycled water pump station					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2
chlorine (total residual)	mg/L	every 6 days	5	1.57	2.16	2.5
faecal coliforms	CFU/100mL	every 6 days	5	<1	<1	<1
nitrogen (ammonia)	mg/L	every 6 days	5	<0.01	<0.01	0.01
nitrogen (total)	mg/L	every 6 days	5	7.68	8.19	9.32
phosphorus (total)	mg/L	every 6 days	5	0.04	0.05	0.06
total suspended solids	mg/L	every 6 days	5	<2	<2	3

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

Effluent quality monitoring results obtained from EPA Point 16 are used to indicate the quality of water discharged at EPA Point 12 (discharge to waters).

Discharge from EPA point 16 (RM0016) was off-line for the month of September 2023 during scheduled 6 day sampling events.

# Richmond Water Resource Recovery Facility August Pollution Monitoring Summary

# Sydney WATER

## EPL 1726

Summary period: 01-08-2023 to 31-08-2023 Date obtained: 05-09-2023 Date published: 14-09-2023 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

### Table 1: Routine monitoring data

EPA Point 16 Site code RM0016	Point description: Outlet of dechlorination tank					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
biochemical oxygen demand	mg/L	every 6 days during discharge	2	<2	<2	<2
chlorine (total residual)	mg/L	every 6 days during discharge	2	<0.04	<0.04	<0.04
faecal coliforms	CFU/100mL	every 6 days during discharge	2	9	60	110
nitrogen (ammonia)	mg/L	every 6 days during discharge	2	<0.1	<0.1	<0.1
nitrogen (total)	mg/L	every 6 days during discharge	2	5.91	5.95	5.99
phosphorus (total)	mg/L	every 6 days during discharge	2	0.04	0.04	0.04
total suspended solids	mg/L	every 6 days during discharge	2	<2	<2	<2

EPA Point 17 Site code RM0017	Point description: Inlet to recycled water pump station					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2
chlorine (total residual)	mg/L	every 6 days	5	1.27	1.54	1.74
faecal coliforms	CFU/100mL	every 6 days	5	<1	<1	<1
nitrogen (ammonia)	mg/L	every 6 days	5	<0.01	<0.01	0.01
nitrogen (total)	mg/L	every 6 days	5	5.6	6.1	6.72
phosphorus (total)	mg/L	every 6 days	5	0.03	0.04	0.05
total suspended solids	mg/L	every 6 days	5	<2	<2	<2

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

Effluent quality monitoring results obtained from EPA Point 16 are used to indicate the quality of water discharged at EPA Point 12 (discharge to waters).

Discharge from EPA point 16 (RM0016) was off-line on the 4th, 16th and 22nd of August 2023 during scheduled 6 day sampling events.

# Richmond Water Resource Recovery Facility July Pollution Monitoring Summary

## EPL 1726

Summary period: 01-07-2023 to 31-07-2023 Date obtained: 05-08-2023 Date published: 15-08-2023



Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

#### Table 1: Routine monitoring data

EPA Point 16 Site code RM0016	Point description: Outlet of dechlorination tank					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
biochemical oxygen demand	mg/L	every 6 days during discharge	5	<2	<2	<2
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly during discharge	1	-	-	100
chlorine (total residual)	mg/L	every 6 days during discharge	5	<0.04	<0.04	<0.04
faecal coliforms	CFU/100mL	every 6 days during discharge	5	3	97	300
nitrogen (ammonia)	mg/L	every 6 days during discharge	5	<0.1	<0.1	<0.1
nitrogen (total)	mg/L	every 6 days during discharge	5	5.2	6.2	7.29
phosphorus (total)	mg/L	every 6 days during discharge	5	0.01	0.02	0.02
total suspended solids	mg/L	every 6 days during discharge	5	<2	<2	<2

EPA Point 17 Site code RM0017	Point descript	Point description: Inlet to recycled water pump station						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result		
biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2		
chlorine (total residual)	mg/L	every 6 days	5	1.68	1.81	1.92		
faecal coliforms	CFU/100mL	every 6 days	5	<1	<1	<1		
nitrogen (ammonia)	mg/L	every 6 days	5	<0.01	<0.01	0.03		
nitrogen (total)	mg/L	every 6 days	5	5.11	5.69	6.19		
phosphorus (total)	mg/L	every 6 days	5	0.02	0.02	0.02		
total suspended solids	mg/L	every 6 days	5	<2	<2	<2		

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