

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

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 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.

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).

Richmond Water Resource Recovery Facility

February Pollution Monitoring Summary



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 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.

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).

Richmond Water Resource Recovery Facility

January Pollution Monitoring Summary



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

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 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	1.13	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



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 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.

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).