

# Rouse Hill Water Resource Recovery Facility

## March Pollution Monitoring Summary



### EPL 4965

Summary period: 01-03-2025 to 31-03-2025  
Date obtained: 09-04-2025  
Date published: 22-04-2025

**Licensee:** Sydney Water Corporation  
PO Box 399  
PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 4 Site code RH0004		Point description: Outlet of the dechlorination tanks			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
biochemical oxygen demand	mg/L	monthly	20	<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 RH0004		Point description: Outlet of the dechlorination tanks				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	79
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	-	-	3.4
faecal coliforms	CFU/100mL	every 6 days	5	<1	<1	3
iron	ug/L	monthly	1	-	-	22
nitrogen (ammonia)	mg/L	every 6 days	6	0.02	0.17	0.72
nitrogen (total)	mg/L	every 6 days	6	4.97	6.51	7.44
phosphorus (total)	mg/L	every 6 days	6	<0.01	0.01	0.03
total suspended solids	mg/L	every 6 days	6	<2	<2	<2
zinc	ug/L	monthly	1	-	-	24

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

As per clause M2.4 under EPL 4965, collection of samples from EPA Point 5 is required during the occurrence of any bypass during normal working hours. There was no bypass recorded at EPA Point 5 during the March monitoring period.

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).

# Rouse Hill Water Resource Recovery Facility

## February Pollution Monitoring Summary



### EPL 4965

Summary period: 01-02-2025 to 28-02-2025  
 Date obtained: 03-03-2025  
 Date published: 15-03-2025

**Licensee:** Sydney Water Corporation  
 PO Box 399  
 PARRAMATTA NSW 2124

**Table 1: 3 Day Geometric Mean data**

EPA Point 4 Site code RH0004		Point description: Outlet of the dechlorination tanks			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
biochemical oxygen demand	mg/L	monthly	20	<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 RH0004		Point description: Outlet of the dechlorination tanks				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	62
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	4	<0.04	<0.04	0.04
cobalt	ug/L	bi-annually	1	-	-	0.3
copper	ug/L	monthly	1	-	-	3.1
cyanide	ug/L	bi-annually	1	-	-	<5
faecal coliforms	CFU/100mL	every 6 days	4	<1	<1	1
iron	ug/L	monthly	1	-	-	18
nitrogen (ammonia)	mg/L	every 6 days	4	0.02	0.45	1.69
nitrogen (total)	mg/L	every 6 days	4	5.36	6.02	6.69
phosphorus (total)	mg/L	every 6 days	4	0.02	0.02	0.02
total suspended solids	mg/L	every 6 days	4	<2	<2	<2
zinc	ug/L	monthly	1	-	-	21

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

As per clause M2.4 under EPL 4965, collection of samples from EPA Point 5 is required during the occurrence of any bypass during normal working hours. There was no bypass during normal working hours recorded at EPA Point 5 during the February monitoring period.

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).

# Rouse Hill Water Resource Recovery Facility

## January Pollution Monitoring Summary



### EPL 4965

Summary period: 01-01-2025 to 31-01-2025  
 Date obtained: 09-02-2025  
 Date published: 21-02-2025

**Licensee:** Sydney Water Corporation  
 PO Box 399  
 PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 4 Site code RH0004		Point description: Outlet of the dechlorination tanks			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
biochemical oxygen demand	mg/L	monthly	20	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 RH0004		Point description: Outlet of the dechlorination tanks				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	344
biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	3
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	-	-	4.2
faecal coliforms	CFU/100mL	every 6 days	6	<1	<1	1
iron	ug/L	monthly	1	-	-	11
nitrogen (ammonia)	mg/L	every 6 days	5	0.01	0.08	0.32
nitrogen (total)	mg/L	every 6 days	5	5.11	5.76	6.32
phosphorus (total)	mg/L	every 6 days	5	0.01	0.02	0.04
total suspended solids	mg/L	every 6 days	5	<2	<2	<2
zinc	ug/L	monthly	1	-	-	19

EPA Point 5 Site code RH0005		Point description: Downstream of the dechlorinated effluent				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
biochemical oxygen demand	mg/L	on bypass	1	-	-	6
chlorine (total residual)	mg/L	on bypass	1	-	-	<0.04
faecal coliforms	CFU/100mL	on bypass	1	-	-	69,000
nitrogen (ammonia)	mg/L	on bypass	1	-	-	3.2
nitrogen (total)	mg/L	on bypass	1	-	-	6.66
phosphorus (total)	mg/L	on bypass	1	-	-	0.25
total suspended solids	mg/L	on bypass	1	-	-	4

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

As per clause M2.4 under EPL 4965, collection of samples from EPA Point 5 is required during the occurrence of any bypass during normal working hours. There was a bypass event recorded at EPA Point 5 on the 16th of January.

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).

# Rouse Hill Water Resource Recovery Facility

## December Pollution Monitoring Summary



### EPL 4965

Summary period: 01-12-2024 to 31-12-2024  
Date obtained: 09-01-2025  
Date published: 23-01-2025

Licensee: Sydney Water Corporation  
PO Box 399  
PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 4 Site code RH0004		Point description: Outlet of the dechlorination tanks			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
biochemical oxygen demand	mg/L	monthly	20	<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 RH0004		Point description: Outlet of the dechlorination tanks				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	104
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	-	-	4.3
faecal coliforms	CFU/100mL	every 6 days	5	<1	<1	1
iron	ug/L	monthly	1	-	-	20
nitrogen (ammonia)	mg/L	every 6 days	6	0.01	0.13	0.56
nitrogen (total)	mg/L	every 6 days	6	5.11	5.80	6.96
phosphorus (total)	mg/L	every 6 days	6	0.02	0.04	0.12
total suspended solids	mg/L	every 6 days	6	<2	<2	2
zinc	ug/L	monthly	1	-	-	28

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

As per clause M2.4 under EPL 4965, collection of samples from EPA Point 5 is required during the occurrence of any bypass during normal working hours. There was no bypass recorded at EPA Point 5 during the December monitoring period.

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).

# Rouse Hill Water Resource Recovery Facility

## November Pollution Monitoring Summary



### EPL 4965

Summary period: 01-11-2024 to 30-11-2024  
Date obtained: 03-12-2024  
Date published: 13-12-2024

Licensee: Sydney Water Corporation  
PO Box 399  
PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 4 Site code RH0004		Point description: Outlet of the dechlorination tanks				
pollutant		unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
biochemical oxygen demand		mg/L	monthly	20	<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 RH0004		Point description: Outlet of the dechlorination tanks				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	106
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	-	-	2.4
faecal coliforms	CFU/100mL	every 6 days	5	<1	3	14
iron	ug/L	monthly	1	-	-	21
nitrogen (ammonia)	mg/L	every 6 days	5	0.02	0.14	0.46
nitrogen (total)	mg/L	every 6 days	5	4.43	4.98	5.69
phosphorus (total)	mg/L	every 6 days	5	0.02	0.02	0.04
total suspended solids	mg/L	every 6 days	5	<2	<2	<2
zinc	ug/L	monthly	1	-	-	23

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

As per clause M2.4 under EPL 4965, collection of samples from EPA Point 5 is required during the occurrence of any bypass during normal working hours. There was no bypass recorded at EPA Point 5 during the November monitoring period.

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).

# Rouse Hill Water Resource Recovery Facility

## October Pollution Monitoring Summary



### EPL 4965

Summary period: 01-10-2024 to 31-10-2024  
Date obtained: 04-11-2024  
Date published: 15-11-2024

**Licensee:** Sydney Water Corporation  
PO Box 399  
PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 4 Site code RH0004		Point description: Outlet of the dechlorination tanks			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
biochemical oxygen demand	mg/L	monthly	20	<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 RH0004		Point description: Outlet of the dechlorination tanks				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	155
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	-	-	3.7
faecal coliforms	CFU/100mL	every 6 days	5	<1	<1	2
iron	ug/L	monthly	1	-	-	31
nitrogen (ammonia)	mg/L	every 6 days	5	0.01	0.24	0.50
nitrogen (total)	mg/L	every 6 days	5	4.08	5.15	6.27
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
zinc	ug/L	monthly	1	-	-	24

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

As per clause M2.4 under EPL 4965, collection of samples from EPA Point 5 is required during the occurrence of any bypass during normal working hours. There was no bypass recorded at EPA Point 5 during the October monitoring period.

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).

# Rouse Hill Water Resource Recovery Facility

## September Pollution Monitoring Summary



### EPL 4965

Summary period: 01-09-2024 to 30-09-2024  
Date obtained: 09-10-2024  
Date published: 23-10-2024

Licensee: Sydney Water Corporation  
PO Box 399  
PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 4 Site code RH0004		Point description: Outlet of the dechlorination tanks			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
biochemical oxygen demand	mg/L	monthly	20	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 RH0004		Point description: Outlet of the dechlorination tanks				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	94
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	-	-	2.6
faecal coliforms	CFU/100mL	every 6 days	5	<1	<1	1
iron	ug/L	monthly	1	-	-	39
nitrogen (ammonia)	mg/L	every 6 days	5	0.14	0.36	0.99
nitrogen (total)	mg/L	every 6 days	5	4.80	5.23	5.67
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
zinc	ug/L	monthly	1	-	-	27

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

As per clause M2.4 under EPL 4965, collection of samples from EPA Point 5 is required during the occurrence of any bypass during normal working hours. There was no bypass recorded at EPA Point 5 during the September monitoring period.

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).

# Rouse Hill Water Resource Recovery Facility

## August Pollution Monitoring Summary



### EPL 4965

Summary period: 01-08-2024 to 31-08-2024  
Date obtained: 07-09-2024  
Date published: 13-09-2024

Licensee: Sydney Water Corporation  
PO Box 399  
PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 4 Site code RH0004		Point description: Outlet of the dechlorination tanks				
pollutant		unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
biochemical oxygen demand		mg/L	monthly	20	<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 RH0004		Point description: Outlet of the dechlorination tanks				
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
cobalt	ug/L	bi-annually	1	-	-	0.3
copper	ug/L	monthly	1	-	-	1.9
cyanide	ug/L	bi-annually	1	-	-	<5
faecal coliforms	CFU/100mL	every 6 days	5	<1	<1	1
iron	ug/L	monthly	1	-	-	26
nitrogen (ammonia)	mg/L	every 6 days	5	0.04	0.13	0.30
nitrogen (total)	mg/L	every 6 days	5	4.44	5.65	6.53
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
zinc	ug/L	monthly	1	-	-	24

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

As per clause M2.4 under EPL 4965, collection of samples from EPA Point 5 is required during the occurrence of any bypass during normal working hours. There was no bypass recorded at EPA Point 5 during the August monitoring period.

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).



# Rouse Hill Water Resource Recovery Facility

## July Pollution Monitoring Summary



### EPL 4965

Summary period: 01-07-2024 to 31-07-2024  
Date obtained: 13-08-2024  
Date published: 27-08-2024

**Licensee:** Sydney Water Corporation  
PO Box 399  
PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 4 Site code RH0004		Point description: Outlet of the dechlorination tanks				
pollutant		unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
biochemical oxygen demand		mg/L	monthly	20	<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 RH0004		Point description: Outlet of the dechlorination tanks				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	201
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	-	-	2.4
faecal coliforms	CFU/100mL	every 6 days	5	<1	<1	2
iron	ug/L	monthly	1	-	-	28
nitrogen (ammonia)	mg/L	every 6 days	5	0.03	0.10	0.24
nitrogen (total)	mg/L	every 6 days	5	4.96	5.43	6.05
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
zinc	ug/L	monthly	1	-	-	29

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

As per clause M2.4 under EPL 4965, collection of samples from EPA Point 5 is required during the occurrence of any bypass during normal working hours. There was no bypass recorded at EPA Point 5 during the July monitoring period.

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).