

Rouse Hill Wastewater Treatment Plant

2024-25 Pollution monitoring yearly limit summaries



EPL 4965

Summary period: 01-07-2024 to 30-06-2025

Date published: 01-08-2025

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

50 percentile yearly summary								
EPA Point 4 Site code RH0004		Point description: Outlet of the dechlorination tanks						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	50 percentile limit	50 percentile value	within limits
biochemical oxygen demand	mg/L	every 6 days	61	<2	3	4	<2	yes
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	12	100	>100	50	100	yes
nitrogen (ammonia)	mg/L	every 6 days	31	0.01	0.99	0.9	0.09	yes
nitrogen (ammonia) ¹	mg/L	every 6 days	30	0.01	6.68	1.4	0.04	yes
nitrogen (total)	mg/L	every 6 days	61	4.08	9.48	10	5.76	yes
phosphorus (total)	mg/L	every 6 days	61	<0.01	0.12	0.2	0.02	yes
total suspended solids	mg/L	every 6 days	61	<2	3	5	<2	yes

¹Rouse Hill LVA resulting in 50th and 90th percentile limit changes to nitrogen (ammonia) effective 01/01/2025.

80 percentile yearly summary								
EPA Point 4 Site code RH0004		Point description: Outlet of the dechlorination tanks						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	80 percentile limit	80 percentile value	within limits
faecal coliforms	CFU/100mL	every 6 days	61	<1	15	200	<1	yes

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90 percentile yearly summary								
EPA Point 4 Site code RH0004		Point description: Outlet of the dechlorination tanks						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	90 percentile limit	90 percentile value	within limits
aluminium	ug/L	monthly	12	62	344	340	201	yes
biochemical oxygen demand	mg/L	every 6 days	61	<2	3	5	<2	yes
chlorine (total residual)	mg/L	every 6 days	61	<0.04	1.89	0.1	<0.04	yes
copper	ug/L	monthly	12	1.9	4.3	7	4.2	yes
iron	ug/L	monthly	12	11	39	52	31	yes
nitrogen (ammonia)	mg/L	every 6 days	31	0.01	0.99	1.4	0.46	yes
nitrogen (ammonia) ¹	mg/L	every 6 days	30	0.01	6.68	2.5	0.82	yes
nitrogen (total)	mg/L	every 6 days	61	4.08	9.48	15	7.44	yes
phosphorus (total)	mg/L	every 6 days	61	<0.01	0.12	0.4	0.03	yes
total suspended solids	mg/L	every 6 days	61	<2	3	8	<2	yes
zinc	ug/L	monthly	12	19	29	39	29	yes

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Average yearly summary								
EPA Point 4 Site code RH0004		Point description: Outlet of the dechlorination tanks						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	Average Limit	Average value	within limits
aluminium	ug/L	monthly	12	62	344	220	139	yes
copper	ug/L	monthly	12	1.9	4.3	5	3	yes
iron	ug/L	monthly	12	11	39	37	24	yes
zinc	ug/L	monthly	12	19	29	33	24	yes

Frequency only yearly summary						
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 ²	2	6	8.000	10
chlorine (total residual)	mg/L	on bypass ²	2	<0.04	<0.04	0.07
faecal coliforms	CFU/100ml	on bypass ²	2	69000	219500	370000
nitrogen (ammonia)	mg/L	on bypass ²	2	3.2	3.4	3.6
nitrogen (total)	mg/L	on bypass ²	2	6.66	7.17	7.67
phosphorus (total)	mg/L	on bypass ²	2	0.25	0.28	0.31
total suspended solids	mg/L	on bypass ²	2	4	13.50	23

² Under Special Frequency 2, collection of samples during the occurrence of any bypass during normal working hours from Point 5.