

# Rouse Hill Wastewater Treatment Plant

## 2023-24 Pollution monitoring yearly limit summaries



### EPL 4965

Summary period: 01-07-2023 to 30-06-2024

Date published: 01-09-2024

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	<2	4	<2	yes
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	12	100	100	50	100	yes
nitrogen (ammonia)	mg/L	every 6 days	61	0.01	0.88	0.9	0.08	yes
nitrogen (total)	mg/L	every 6 days	61	4.07	8.71	10	6.01	yes
phosphorus (total)	mg/L	every 6 days	61	0.01	0.05	0.2	0.02	yes
total suspended solids	mg/L	every 6 days	61	<2	3	5	<2	yes

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	59	388	340	156	yes
biochemical oxygen demand	mg/L	every 6 days	61	<2	<2	5	<2	yes
chlorine (total residual)	mg/L	every 6 days	61	<0.04	<0.04	0.1	<0.04	yes
copper	ug/L	monthly	12	2.5	4.8	7	3.8	yes
iron	ug/L	monthly	12	16	58	52	28	yes
nitrogen (ammonia)	mg/L	every 6 days	61	0.01	0.88	1.4	0.58	yes
nitrogen (total)	mg/L	every 6 days	61	4.07	8.71	15	7.29	yes
phosphorus (total)	mg/L	every 6 days	61	0.01	0.05	0.4	0.03	yes
total suspended solids	mg/L	every 6 days	61	<2	3	8	<2	yes
zinc	ug/L	monthly	12	14	27	39	26	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	59	388	220	122	yes
copper	ug/L	monthly	12	2.5	4.8	5	3.4	yes
iron	ug/L	monthly	12	16	58	37	25	yes
zinc	ug/L	monthly	12	14	27	33	21	yes

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 <sup>1</sup>	5	<2	4	8
faecal coliforms	CFU/100mL	on bypass <sup>1</sup>	5	3,100	50,840	110,000
nitrogen (ammonia)	mg/L	on bypass <sup>1</sup>	5	0.1	0.9	2.6
nitrogen (total)	mg/L	on bypass <sup>1</sup>	5	4.66	6.26	7.14
phosphorus (total)	mg/L	on bypass <sup>1</sup>	5	0.06	0.34	1.04
total suspended solids	mg/L	on bypass <sup>1</sup>	5	<2	15	47

<sup>1</sup> Under Special Frequency 2, collection of samples during the occurrence of any bypass during normal working hours from Point 5.