

# Rouse Hill Wastewater Treatment Plant

## 2022-23 Pollution monitoring yearly limit summaries



### EPL 4965

Summary period: 01-07-2022 to 30-06-2023

Date published: 1-09-2023

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	2.06	0.9	0.1	yes
nitrogen (total)	mg/L	every 6 days	61	4.89	8.87	10	6.91	yes
phosphorus (total)	mg/L	every 6 days	61	0.01	0.04	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	31	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	61	164	340	163	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	1.9	3.7	7	3.5	yes
iron	ug/L	monthly	12	12	35	52	25	yes
nitrogen (ammonia)	mg/L	every 6 days	61	<0.01	2.06	1.4	0.97	yes
nitrogen (total)	mg/L	every 6 days	61	4.89	8.87	15	8.5	yes
phosphorus (total)	mg/L	every 6 days	61	0.01	0.04	0.4	0.03	yes
total suspended solids	mg/L	every 6 days	61	<2	3	8	<2	yes
zinc	ug/L	monthly	12	17	51	39	27	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	61	164	220	111	yes
cobalt	ug/L	bi-annually	2	0.2	0.5	-	0.4	yes
copper	ug/L	monthly	12	1.9	3.7	5	3	yes
cyanide	ug/L	bi-annually	2	<5	<5	-	<5	yes
iron	ug/L	monthly	12	12	35	37	21	yes
zinc	ug/L	monthly	12	17	51	33	24	yes

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).

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>	3	<2	7	13
faecal coliforms	CFU/100mL	on bypass <sup>1</sup>	3	17	194,806	580,000
nitrogen (ammonia)	mg/L	on bypass <sup>1</sup>	3	0.4	3.17	5.9
nitrogen (total)	mg/L	on bypass <sup>1</sup>	3	3.6	6.0	9.4
phosphorus (total)	mg/L	on bypass <sup>1</sup>	3	0.03	0.47	1.18
total suspended solids	mg/L	on bypass <sup>1</sup>	3	<2	12	25

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

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).