

EPL 190

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 NR0004	Point descrip	int description: Downstream of the weir from the disinfection facilities								
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	4	10	<2	yes		
nitrogen (ammonia)	mg/L	every 6 days	61	0.28	3.33	0.9	0.71	yes		
nitrogen (total)	mg/L	every 6 days	61	6.06	17.7	10	8.93	yes		
phosphorus (total)	mg/L	every 6 days	61	0.07	2.18	2	0.26	yes		
total suspended solids	mg/L	every 6 days	61	<2	15	5	4	yes		



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90 percentile yearly summary											
EPA Point 4 Site code NR0004	Point descripti	Point description: Downstream of the weir from the disinfection facilities									
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	268	743	873	669	yes			
biochemical oxygen demand	mg/L	every 6 days	61	<2	4	15	2	yes			
copper	ug/L	monthly	12	3.6	11.4	7	8.9	no ¹			
diazinon	ug/L	monthly	12	<0.1	<0.1	0.1	<0.1	yes			
iron	ug/L	monthly	12	8	55	180	52	yes			
nitrogen (ammonia)	mg/L	every 6 days	61	0.28	3.33	1.4	1.47	no ²			
nitrogen (total)	mg/L	every 6 days	61	6.06	17.7	15	10.4	yes			
phosphorus (total)	mg/L	every 6 days	61	0.07	2.18	5	0.58	yes			
total suspended solids	mg/L	every 6 days	61	<2	15	10	8	yes			
zinc	ug/L	monthly	12	15	38	57	37	yes			

1 The total copper 90th percentile exceedance was largely influenced by increasing inflows to North Richmond WRRF due to catchment growth and limitations of the existing biological treatment technology to meet the recently revised Stage 1 concentration limits. To restore compliance, Sydney Water are initiating the option to upgrade Richmond WRRF treatment capacity, transfer flows from North Richmond WRRF to Richmond WRRF and decommission North Richmond WRRF.

2 The ammonia nitrogen 90th percentile exceedance was largely influenced by increasing inflows to North Richmond WRRF due to catchment growth and limitations of the existing biological treatment technology to meet the recently revised Stage 1 concentration limits. To restore compliance, Sydney Water are initiating the option to upgrade Richmond WRRF treatment capacity, transfer flows from North Richmond WRRF to Richmond WRRF and decommission North Richmond WRRF.



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Average yearly summary									
EPA Point 4 Site code NR0004	Point description: Downstream of the weir from the disinfection facilities								
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	Average Limit	Average value	within limits	
aluminium	ug/L	monthly	12	268	743	500	466	yes	
copper	ug/L	monthly	12	3.6	11.4	5	6.8	no ³	
diazinon	ug/L	monthly	12	<0.1	<0.1	0.2	<0.1	yes	
iron	ug/L	monthly	12	8	55	95	29	yes	
zinc	ug/L	monthly	12	15	38	44	26	yes	

50 percentile yearly summary									
EPA Point 5 Site code NR0005	Point descript	int description: Outlet of the disinfection facilities							
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	50 percentile limit	50 percentile value	within limits	
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	12	100	100	50	100	yes	

80 percentile yearly summary									
EPA Point 5 Site code NR0005	Point description: Outlet of the disinfection facilities								
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	4,900	200	52	yes	



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90 percentile yearly summary									
EPA Point 5 Site code NR0005	Point description	Point description: Outlet of the disinfection facilities							
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	90 percentile limit	90 percentile value	within limits	
hydrogen sulphide (unionised)	ug/L	monthly	12	<30	<30	60	<30	yes	

Average yearly summary									
EPA Point 5 Site code NR0005	Point descript	Point description: Outlet of the disinfection facilities							
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	Average Limit	Average value	within limits	
hydrogen sulphide (unionised)	ug/L	monthly	12	<30	<30	30	<30	yes	

3 The total copper average limit exceedance was largely influenced by increasing inflows to North Richmond WRRF due to catchment growth and limitations of the existing biological treatment technology to meet the recently revised Stage 1 concentration limits. To restore compliance, Sydney Water are initiating the option to upgrade Richmond WRRF treatment capacity, transfer flows from North Richmond WRRF to Richmond WRRF and decommission North Richmond WRRF.