Sydney WATER

Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

50 percentile yearly summary								
EPA Point 1 Site code Pl0001	Point description: Outlet of the effluent buffer tank at the western dam							
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	on bypass	105	<2	35	7	<2	yes
nitrogen (ammonia)	mg/L	on bypass	138	<0.1	1	0.5	0.1	yes
nitrogen (total)	mg/L	on bypass	138	0.85	4.99	6	4	yes
phosphorus (total)	mg/L	on bypass	138	0.02	0.3	0.2	0.05	yes
total suspended solids	mg/L	on bypass	138	<2	15	5	<2	yes
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80 percentile yearly summary								

EPA Point 1 Site code Pl0001	Point descript	ion: Outlet of the effluent buffer tar	ik at the wes	tern dam	am					
nollutant	unit of	compling frequency	number of	minimum	maximum	80 percentile	80 percentile	within		
pollutant	measure	sampling nequency	Samples	resuit	resuit	mmu	value	mmus		
faecal coliforms	CFU/100mL	on bypass	138	<1	24,000	200	230	no ¹		

¹The faecal coliforms exceedance was influenced by the March 2021 East Coast Low event. To minimise uncontrolled discharge of water from the Eastern Dam, effluent which was not fully treated was transferred into Western Dam. This resulted in a number of FC exceedances in a short period of time.

Following this event, a temporary disinfection process was setup on Eastern to Western dam transfer line. Improvements in treatment level, UV disinfection and capacity are b eing planned

EPL 10555

Summary period: 01-07-2020 to 30-06-2021 Date published: 13-08-2021

EPL 10555

Summary period: 01-07-2020 to 30-06-2021 Date published: 13-08-2021 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

90 percentile yearly summary									
EPA Point 1 Site code Pl0001	Point description: Outlet of the effluent buffer tank at the western dam								
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	90 percentile limit	90 percentile value	within limits	
biochemical oxygen demand	mg/L	on bypass	105	<2	35	10	2	yes	
nitrogen (ammonia)	mg/L	on bypass	138	<0.1	1	1	0.4	yes	
nitrogen (total)	mg/L	on bypass	138	0.85	4.99	10	4.62	yes	
phosphorus (total)	mg/L	on bypass	138	0.02	0.3	0.4	0.19	yes	
total suspended solids	mg/L	on bypass	138	<2	15	10	4	yes	

50 percentile yearly summary									
EPA Point 11 Site code Pl0011	Point description: Outlet of the effluent irrigation eastern dam								
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 when irrigating	13	<2	5	10	3	yes	
faecal coliforms	CFU/100mL	every 6 days when irrigating	14	<2	140	2,000	21	yes	
nitrogen (ammonia)	mg/L	every 6 days when irrigating	14	0.02	2.44	2	0.11	yes	
nitrogen (total)	mg/L	every 6 days when irrigating	14	2.24	5.01	10	2.75	yes	
рН	pH Units	every 6 days when irrigating	14	7.52	9.57	6.5 - 9.5	8.74	yes	
phosphorus (total)	mg/L	every 6 days when irrigating	14	0.06	0.61	8	0.16	yes	
total suspended solids	mg/L	every 6 days when irrigating	14	<2	11	120	2	yes	



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0 percentile yearly summary									
EPA Point 11 Site code Pl0011	Point description: Outlet of the effluent irrigation eastern dam								
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	90 percentile limit	90 percentile value	within limits	
biochemical oxygen demand	mg/L	every 6 days when irrigating	13	<2	5	15	4	yes	
faecal coliforms	CFU/100mL	every 6 days when irrigating	14	2	140	10,000	57	yes	
nitrogen (ammonia)	mg/L	every 6 days when irrigating	14	0.02	2.44	5	2.4	yes	
nitrogen (total)	mg/L	every 6 days when irrigating	14	2.24	5.01	15	4.97	yes	
phosphorus (total)	mg/L	every 6 days when irrigating	14	0.06	0.61	9	0.6	yes	
total suspended solids	mg/L	every 6 days when irrigating	14	<2	11	480	9	yes	

50 percentile yearly summary									
EPA Point 13 Site code Pl0013	Point description: Outlet of the effluent irrigation western dam								
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 when irrigating	13	<2	10	7	2	yes	
nitrogen (ammonia)	mg/L	every 6 days when irrigating	15	0.01	0.3	0.5	0.06	yes	
nitrogen (total)	mg/L	every 6 days when irrigating	15	3.54	4.48	6	4.1	yes	
рН	pH Units	every 6 days when irrigating	15	7.51	9.05	6.5 - 9.5	8.3	yes	
phosphorus (total)	mg/L	every 6 days when irrigating	15	0.02	0.16	0.2	0.06	yes	
total suspended solids	mg/L	every 6 days when irrigating	15	<2	4	7	<2	yes	

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90 percentile yearly summary									
EPA Point 13 Site code Pl0013	Point description: Outlet of the effluent irrigation western dam								
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	90 percentile limit	90 percentile value	within limits	
biochemical oxygen demand	mg/L	every 6 days when irrigating	13	<2	10	10	7	yes	
faecal coliforms	CFU/100mL	every 6 days when irrigating	15	5	240	200	180	yes	
nitrogen (ammonia)	mg/L	every 6 days when irrigating	15	0.01	0.3	1	0.25	yes	
nitrogen (total)	mg/L	every 6 days when irrigating	15	3.54	4.48	10	4.35	yes	
phosphorus (total)	mg/L	every 6 days when irrigating	15	0.02	0.16	0.4	0.13	yes	
total suspended solids	mg/L	every 6 days when irrigating	15	<2	4	15	3	yes	

Note: Sydney Water commenced monitoring of biochemical oxygen demand from 1st September 2020. Historically, carbonaceous biochemical oxygen demand was monitored.

Effluent quality monitoring results obtained from EPA Point 1 are used to indicate the quality of water discharged at EPA Point 14 (precautionary discharge point to Stonequarry Creek).

