

Picton Wastewater Treatment Plant

2019-20 Pollution monitoring yearly limit summaries



EPL 10555

Summary period: 01-07-2019 to 30-06-2020

Date published: 10-08-2020

50 percentile yearly summary								
EPA Point 1 Site code PI0001		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
carbonaceous biochemical oxygen demand	mg/L	on bypass	85	<2	3	7	<2	yes
nitrogen (ammonia)	mg/L	on bypass	85	<0.1	1.3	0.5	<0.1	yes
nitrogen (total)	mg/L	on bypass	85	3.44	5.36	6	4.67	yes
phosphorus (total)	mg/L	on bypass	85	0.02	0.21	0.2	0.03	yes
total suspended solids	mg/L	on bypass	85	<2	22	7	<2	yes

80 percentile yearly summary								
EPA Point 1 Site code PI0001		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	80 percentile limit	80 percentile value	within limits
faecal coliforms	CFU/100mL	on bypass	85	7	2,400	200	220	no ¹

¹. Sydney Water to review and upgrade UV system with ongoing performance monitoring.

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PARRAMATTA NSW 2124

90 percentile yearly summary

EPA Point 1 Site code PI0001		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
carbonaceous biochemical oxygen demand	mg/L	on bypass	85	<2	3	10	<2	yes
nitrogen (ammonia)	mg/L	on bypass	85	<0.1	1.3	1	0.4	yes
nitrogen (total)	mg/L	on bypass	85	3.44	5.36	10	4.97	yes
phosphorus (total)	mg/L	on bypass	85	0.02	0.21	0.4	0.16	yes
total suspended solids	mg/L	on bypass	85	<2	22	15	11	yes

50 percentile yearly summary

EPA Point 11 Site code PI0011		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
carbonaceous biochemical oxygen demand	mg/L	every 6 days when irrigating	20	<2	6	10	<2	yes
faecal coliforms	CFU/100mL	every 6 days when irrigating	20	5	430	2,000	16	yes
nitrogen (ammonia)	mg/L	every 6 days when irrigating	20	0.01	1.16	2	0.04	yes
nitrogen (total)	mg/L	every 6 days when irrigating	20	4.23	5.58	10	4.53	yes
pH	pH Units	every 6 days when irrigating	20	7.54	9.97	6.5 - 9.5	9.34	yes
phosphorus (total)	mg/L	every 6 days when irrigating	20	0.21	1.42	8	0.53	yes
total suspended solids	mg/L	every 6 days when irrigating	20	<2	15	120	3	yes

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90 percentile yearly summary								
EPA Point 11 Site code PI0011		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
carbonaceous biochemical oxygen demand	mg/L	every 6 days when irrigating	20	<2	6	15	4	yes
faecal coliforms	CFU/100mL	every 6 days when irrigating	20	5	430	10,000	89	yes
nitrogen (ammonia)	mg/L	every 6 days when irrigating	20	0.01	1.16	5	0.7	yes
nitrogen (total)	mg/L	every 6 days when irrigating	20	4.23	5.58	15	5.44	yes
phosphorus (total)	mg/L	every 6 days when irrigating	20	0.21	1.42	9	1.11	yes
total suspended solids	mg/L	every 6 days when irrigating	20	<2	15	480	6	yes

50 percentile yearly summary								
EPA Point 13 Site code PI0013		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
carbonaceous biochemical oxygen demand	mg/L	every 6 days when irrigating	19	<2	4	7	<2	yes
nitrogen (ammonia)	mg/L	every 6 days when irrigating	19	0.01	0.24	0.5	0.1	yes
nitrogen (total)	mg/L	every 6 days when irrigating	19	1.59	4.79	6	3.88	yes
pH	pH Units	every 6 days when irrigating	19	7.46	9.6	6.5 - 9.5	8.28	yes
phosphorus (total)	mg/L	every 6 days when irrigating	19	0.02	0.22	0.2	0.05	yes
total suspended solids	mg/L	every 6 days when irrigating	19	<2	11	7	<2	yes

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90 percentile yearly summary								
EPA Point 13 Site code PI0013		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
carbonaceous biochemical oxygen demand	mg/L	every 6 days when irrigating	19	<2	4	10	3	yes
faecal coliforms	CFU/100mL	every 6 days when irrigating	19	11	560	200*	200*	yes
nitrogen (ammonia)	mg/L	every 6 days when irrigating	19	0.01	0.24	1	0.22	yes
nitrogen (total)	mg/L	every 6 days when irrigating	19	1.59	4.79	10	4.79	yes
phosphorus (total)	mg/L	every 6 days when irrigating	19	0.02	0.22	0.4	0.17	yes
total suspended solids	mg/L	every 6 days when irrigating	19	<2	11	15	10	yes

Note: The faecal coliforms concentration limit and value marked by an asterisk in the above table is to be interpreted as an 80% concentration limit and value for the purpose of assessing compliance with this condition.