

# Picton Wastewater Treatment Plant

## 2021-22 Pollution monitoring yearly limit summaries



### EPL 10555

Summary period: 01-07-2021 to 30-06-2022

Date published: 30-08-2022

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

50 percentile yearly summary								
EPA Point 1 Site code P10001		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	140	<2	4	7	<2	yes
carbonaceous biochemical oxygen demand	mg/L	on bypass	140	<2	3	7	<2	yes
nitrogen (ammonia)	mg/L	on bypass	140	<0.1	1.3	0.5	<0.1	yes
nitrogen (total)	mg/L	on bypass	140	2.53	4.99	6	4.01	yes
phosphorus (total)	mg/L	on bypass	140	0.02	0.21	0.2	0.05	yes
total suspended solids	mg/L	on bypass	140	<2	8	5	2	yes

80 percentile yearly summary								
EPA Point 1 Site code P10001		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	140	<1	340	200	210	no <sup>1</sup>

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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
biochemical oxygen demand	mg/L	on bypass	140	<2	4	10	4	yes
carbonaceous biochemical oxygen demand	mg/L	on bypass	140	<2	3	10	3	yes
nitrogen (ammonia)	mg/L	on bypass	140	<0.1	1.3	1	0.4	yes
nitrogen (total)	mg/L	on bypass	140	2.53	4.99	10	4.97	yes
phosphorus (total)	mg/L	on bypass	140	0.02	0.21	0.4	0.19	yes
total suspended solids	mg/L	on bypass	140	<2	8	10	12	no <sup>1</sup>

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
biochemical oxygen demand	mg/L	every 6 days when irrigating	13	<2	10	10	<2	yes
carbonaceous biochemical oxygen demand	mg/L	every 6 days when irrigating	13	<2	10	10	<2	yes
faecal coliforms	CFU/100mL	every 6 days when irrigating	13	1	380	2,000	22	yes
nitrogen (ammonia)	mg/L	every 6 days when irrigating	13	0.02	0.58	2	0.09	yes
nitrogen (total)	mg/L	every 6 days when irrigating	13	1.77	3.81	10	2.53	yes
pH	pH Units	every 6 days when irrigating	13	7.57	9.16	6.5 - 9.5	8.44	yes
phosphorus (total)	mg/L	every 6 days when irrigating	13	0.07	0.29	8	0.11	yes
total suspended solids	mg/L	every 6 days when irrigating	13	<2	4	120	<2	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
biochemical oxygen demand	mg/L	every 6 days when irrigating	13	<2	10	15	4	yes
carbonaceous biochemical oxygen demand	mg/L	every 6 days when irrigating	13	<2	10	15	4	yes
faecal coliforms	CFU/100mL	every 6 days when irrigating	13	1	380	10,000	250	yes
nitrogen (ammonia)	mg/L	every 6 days when irrigating	13	0.02	0.58	5	0.18	yes
nitrogen (total)	mg/L	every 6 days when irrigating	13	1.77	3.81	15	3.74	yes
phosphorus (total)	mg/L	every 6 days when irrigating	13	0.07	0.29	9	0.25	yes
total suspended solids	mg/L	every 6 days when irrigating	13	<2	4	480	<2	yes

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#### 50 percentile yearly summary

EPA Point 13 Site code P10013		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	10	<2	3	7	<2	yes
carbonaceous biochemical oxygen demand	mg/L	every 6 days when irrigating	10	<2	3	7	<2	yes
nitrogen (ammonia)	mg/L	every 6 days when irrigating	10	0.01	0.12	0.5	0.07	yes
nitrogen (total)	mg/L	every 6 days when irrigating	10	2.41	4.66	6	3.75	yes
pH	pH Units	every 6 days when irrigating	10	7.49	9.07	6.5 - 9.5	7.94	yes
phosphorus (total)	mg/L	every 6 days when irrigating	10	0.02	0.06	0.2	0.04	yes
total suspended solids	mg/L	every 6 days when irrigating	10	<2	5	7	<2	yes

#### 80 percentile yearly summary

EPA Point 13 Site code P10013		Point description: Outlet of the effluent irrigation 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	every 6 days when irrigating	10	7	310	200	140	yes

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90 percentile yearly summary								
EPA Point 13 Site code P10013		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	10	<2	3	10	3	yes
carbonaceous biochemical oxygen demand	mg/L	every 6 days when irrigating	10	<2	3	10	3	yes
nitrogen (ammonia)	mg/L	every 6 days when irrigating	10	0.01	0.12	1	0.09	yes
nitrogen (total)	mg/L	every 6 days when irrigating	10	2.41	4.66	10	4.38	yes
phosphorus (total)	mg/L	every 6 days when irrigating	10	0.02	0.06	0.4	0.06	yes
total suspended solids	mg/L	every 6 days when irrigating	10	<2	5	15	3	yes

<sup>1</sup>During the significant weather events between February and April 2022, Picton WRRF received significantly high wet weather flows into the facility during this period. To minimise uncontrolled discharge of water from the Eastern Dam, effluent which was not fully treated was transferred into the Western Dam. This resulted in a number of faecal coliform and suspended solids exceedances within a short period of time.

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).