

# Picton Wastewater Treatment Plant

## 2022-23 Pollution monitoring yearly limit summaries



### EPL 10555

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

Date published: 01-09-2023

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

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
biochemical oxygen demand	mg/L	every weekday when discharging	107	<2	15	7	<2	yes
biochemical oxygen demand <sup>1</sup>	mg/L	every weekday when discharging	24	<2	6	2	<2	yes
nitrogen (ammonia)	mg/L	every weekday when discharging	131	<0.1	1.3	0.5	0.2	yes
nitrogen (total)	mg/L	every weekday when discharging	107	1.95	5	6	3.8	yes
nitrogen (total) <sup>1</sup>	mg/L	every weekday when discharging	24	4.1	4.7	4.5	4.3	yes
phosphorus (total)	mg/L	every weekday when discharging	107	0.03	0.24	0.2	0.09	yes
phosphorus (total) <sup>1</sup>	mg/L	every weekday when discharging	24	0.03	0.12	0.15	0.05	yes
total suspended solids	mg/L	every weekday when discharging	131	<2	25	5	3	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	every weekday when discharging	131	1	33,000	200	110	yes

<sup>1</sup> Picton LVA approved 24/05/2023 resulting in 50th and 90th percentile limit changes to biochemical oxygen demand, total nitrogen and total phosphorus.

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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	every weekday when discharging	107	<2	15	10	5	yes
biochemical oxygen demand <sup>1</sup>	mg/L	every weekday when discharging	24	<2	6	5	3	yes
nitrogen (ammonia)	mg/L	every weekday when discharging	131	<0.1	1.3	1	1	yes
nitrogen (total)	mg/L	every weekday when discharging	107	1.95	5	10	4.5	yes
nitrogen (total) <sup>1</sup>	mg/L	every weekday when discharging	24	4.1	4.7	7	4.5	yes
phosphorus (total)	mg/L	every weekday when discharging	107	0.03	0.24	0.4	0.21	yes
phosphorus (total) <sup>1</sup>	mg/L	every weekday when discharging	24	0.03	0.12	0.3	0.07	yes
total suspended solids	mg/L	every weekday when discharging	131	<2	25	10	8	yes

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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	6	<2	5	10	2	yes
faecal coliforms	CFU/100mL	every 6 days when irrigating	6	1	760	2,000	16	yes
nitrogen (ammonia)	mg/L	every 6 days when irrigating	6	0.01	0.15	2	0.03	yes
nitrogen (total)	mg/L	every 6 days when irrigating	6	2.18	3.91	10	2.7	yes
pH	pH Units	every 6 days when irrigating	6	9.02	10.23	6.5 - 9.5	9.97	no <sup>2</sup>
phosphorus (total)	mg/L	every 6 days when irrigating	6	0.25	0.76	8	0.34	yes
total suspended solids	mg/L	every 6 days when irrigating	6	<2	11	120	5	yes

<sup>2</sup> pH 50th percentile limit exceedance allowable under EPL condition L3.10 when algal growth within the irrigation dam is the sole cause of the exceedance.

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	6	<2	5	15	5	yes
faecal coliforms	CFU/100mL	every 6 days when irrigating	6	1	760	10,000	760	yes
nitrogen (ammonia)	mg/L	every 6 days when irrigating	6	0.01	0.15	5	0.15	yes
nitrogen (total)	mg/L	every 6 days when irrigating	6	2.18	3.91	15	3.91	yes
phosphorus (total)	mg/L	every 6 days when irrigating	6	0.25	0.76	9	0.76	yes
total suspended solids	mg/L	every 6 days when irrigating	6	<2	11	480	11	yes

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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
biochemical oxygen demand	mg/L	every 6 days when irrigating	8	<2	5	7	2	yes
nitrogen (ammonia)	mg/L	every 6 days when irrigating	8	0.05	0.51	0.5	0.13	yes
nitrogen (total)	mg/L	every 6 days when irrigating	8	1.84	3.47	6	3.05	yes
pH	pH Units	every 6 days when irrigating	8	7.51	9.5	6.5 - 9.5	8.91	yes
phosphorus (total)	mg/L	every 6 days when irrigating	8	0.07	0.19	0.2	0.12	yes
total suspended solids	mg/L	every 6 days when irrigating	8	<2	2	7	<2	yes

80 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	80 percentile limit	80 percentile value	within limits
faecal coliforms	CFU/100mL	every 6 days when irrigating	8	16	440	200	300	no <sup>3</sup>

<sup>3</sup> Faecal coliforms 80th percentile limit exceedance at PI0013 was largely influenced by extreme wet weather events in the first half of the 2022-23 reporting period. Picton WRRF received elevated wet weather flows into the facility during this period. To reduce the risk of an Eastern dam overflow and minimise an uncontrolled discharge into the adjoining environment, dam transfers from the Eastern Dam to Western Dam containing effluent not fully treated were carried out, impacting water quality.

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biochemical oxygen demand	mg/L	every 6 days when irrigating	8	<2	5	10	5	yes
nitrogen (ammonia)	mg/L	every 6 days when irrigating	8	0.05	0.51	1	0.51	yes
nitrogen (total)	mg/L	every 6 days when irrigating	8	1.84	3.47	10	3.47	yes
phosphorus (total)	mg/L	every 6 days when irrigating	8	0.07	0.19	0.4	0.19	yes
total suspended solids	mg/L	every 6 days when irrigating	8	<2	2	15	2	yes