

Picton Wastewater Treatment Plant

January Pollution Monitoring Summary



EPL 10555

Summary period: 01-01-2021 to 31-01-2021

Date obtained: 02-02-2021

Date published: 12-02-2021

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: Routine monitoring data

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	mean result	maximum result
biochemical oxygen demand	mg/L	on bypass	4	<2	<2	2
carbonaceous biochemical oxygen demand	mg/L	on bypass	4	<2	<2	<2
faecal coliforms	CFU/100mL	on bypass	4	250	303	370
nitrogen (ammonia)	mg/L	on bypass	4	<0.1	0.1	0.2
nitrogen (total)	mg/L	on bypass	4	4.02	4.15	4.22
phosphorus (total)	mg/L	on bypass	4	0.08	0.08	0.09
total suspended solids	mg/L	on bypass	4	<2	3	5

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	mean result	maximum result
biochemical oxygen demand	mg/L	every 6 days when irrigating	2	3	3.5	4
carbonaceous biochemical oxygen demand	mg/L	every 6 days when irrigating	2	3	3	3
faecal coliforms	CFU/100mL	every 6 days when irrigating	2	7	19	31
nitrogen (ammonia)	mg/L	every 6 days when irrigating	2	0.22	0.31	0.39
nitrogen (total)	mg/L	every 6 days when irrigating	2	2.75	3.24	3.72
pH	pH Units	every 6 days when irrigating	2	7.59	8.41	9.22
phosphorus (total)	mg/L	every 6 days when irrigating	2	0.13	0.17	0.21
total suspended solids	mg/L	every 6 days when irrigating	2	2	3	4

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	mean result	maximum result
biochemical oxygen demand	mg/L	every 6 days when irrigating	3	<2	<2	3
carbonaceous biochemical oxygen demand	mg/L	every 6 days when irrigating	3	<2	<2	3
faecal coliforms	CFU/100mL	every 6 days when irrigating	3	82	167	240
nitrogen (ammonia)	mg/L	every 6 days when irrigating	3	0.04	0.05	0.06
nitrogen (total)	mg/L	every 6 days when irrigating	3	3.79	4.04	4.23

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	mean result	maximum result
pH	pH Units	every 6 days when irrigating	3	8.3	8.55	8.88
phosphorus (total)	mg/L	every 6 days when irrigating	3	0.06	0.07	0.08
total suspended solids	mg/L	every 6 days when irrigating	3	<2	2	4

Average and percentile limits are only applied annually for routine monitoring data.

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).

Picton Wastewater Treatment Plant

December Pollution Monitoring Summary



EPL 10555

Summary period: 01-12-2020 to 31-12-2020

Date obtained: 08-01-2021

Date published: 18-01-2021

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: Routine monitoring data

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	mean result	maximum result
biochemical oxygen demand	mg/L	on bypass	10	<2	<2	<2
carbonaceous biochemical oxygen demand	mg/L	on bypass	10	<2	<2	<2
faecal coliforms	CFU/100mL	on bypass	10	11	192	420
nitrogen (ammonia)	mg/L	on bypass	10	<0.1	<0.1	0.2
nitrogen (total)	mg/L	on bypass	10	3.73	3.99	4.23
phosphorus (total)	mg/L	on bypass	10	0.04	0.07	0.11
total suspended solids	mg/L	on bypass	10	<2	3	8

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	mean result	maximum result
biochemical oxygen demand	mg/L	every 6 days when irrigating	1	-	-	2
carbonaceous biochemical oxygen demand	mg/L	every 6 days when irrigating	1	-	-	<2
faecal coliforms	CFU/100mL	every 6 days when irrigating	1	-	-	42
nitrogen (ammonia)	mg/L	every 6 days when irrigating	1	-	-	0.04
nitrogen (total)	mg/L	every 6 days when irrigating	1	-	-	3.81
pH	pH Units	every 6 days when irrigating	1	-	-	8.46
phosphorus (total)	mg/L	every 6 days when irrigating	1	-	-	0.04
total suspended solids	mg/L	every 6 days when irrigating	1	-	-	<2

Average and percentile limits are only applied annually for routine monitoring data.

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).

As per clause M2.4 under EPL 10555, collection of samples every 6 days from PI0011 is required when the irrigation system at EPA Point 11 is operating at the time of sampling. The irrigation system was not operating at the time of sampling the 6-day cycle during the December monitoring period.

Picton Wastewater Treatment Plant

November Pollution Monitoring Summary



EPL 10555

Summary period: 01-11-2020 to 30-11-2020

Date obtained: 08-12-2020

Date published: 15-12-2020

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: Routine monitoring data

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	mean result	maximum result
biochemical oxygen demand	mg/L	on bypass	5	<2	<2	<2
carbonaceous biochemical oxygen demand	mg/L	on bypass	5	<2	<2	<2
faecal coliforms	CFU/100mL	on bypass	5	47	165	290
nitrogen (ammonia)	mg/L	on bypass	5	<0.1	<0.1	0.1
nitrogen (total)	mg/L	on bypass	5	3.8	3.94	4.14
phosphorus (total)	mg/L	on bypass	5	0.03	0.03	0.04
total suspended solids	mg/L	on bypass	5	<2	<2	3

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	mean result	maximum result
biochemical oxygen demand	mg/L	every 6 days when irrigating	2	3	3.5	4
carbonaceous biochemical oxygen demand	mg/L	every 6 days when irrigating	2	3	4	4
faecal coliforms	CFU/100mL	every 6 days when irrigating	2	24	34	44
nitrogen (ammonia)	mg/L	every 6 days when irrigating	2	0.08	0.12	0.15
nitrogen (total)	mg/L	every 6 days when irrigating	2	2.61	2.94	3.27
pH	pH Units	every 6 days when irrigating	2	8.78	9.18	9.57
phosphorus (total)	mg/L	every 6 days when irrigating	2	0.09	0.1	0.11
total suspended solids	mg/L	every 6 days when irrigating	2	9	10	11

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	mean result	maximum result
biochemical oxygen demand	mg/L	every 6 days when irrigating	2	<2	<2	<2
carbonaceous biochemical oxygen demand	mg/L	every 6 days when irrigating	2	<2	<2	<2
faecal coliforms	CFU/100mL	every 6 days when irrigating	2	46	64	82
nitrogen (ammonia)	mg/L	every 6 days when irrigating	2	0.01	0.02	0.03
nitrogen (total)	mg/L	every 6 days when irrigating	2	3.99	4.1	4.21

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	mean result	maximum result
pH	pH Units	every 6 days when irrigating	2	8.61	8.67	8.72
phosphorus (total)	mg/L	every 6 days when irrigating	2	0.04	0.04	0.04
total suspended solids	mg/L	every 6 days when irrigating	2	2	3	3

Average and percentile limits are only applied annually for routine monitoring data.

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).

Picton Wastewater Treatment Plant

October Pollution Monitoring Summary



EPL 10555

Summary period: 01-10-2020 to 31-10-2020

Date obtained: 05-11-2020

Date published: 13-11-2020

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: Routine monitoring data

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	mean result	maximum result
biochemical oxygen demand	mg/L	on bypass	5	<2	<2	<2
carbonaceous biochemical oxygen demand	mg/L	on bypass	5	<2	<2	<2
faecal coliforms	CFU/100mL	on bypass	5	74	167	310
nitrogen (ammonia)	mg/L	on bypass	5	<0.1	0.1	0.2
nitrogen (total)	mg/L	on bypass	5	3.47	3.76	3.93
phosphorus (total)	mg/L	on bypass	5	0.02	0.02	0.02
total suspended solids	mg/L	on bypass	5	<2	<2	<2

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	mean result	maximum result
biochemical oxygen demand	mg/L	every 6 days when irrigating	3	<2	<2	3
carbonaceous biochemical oxygen demand	mg/L	every 6 days when irrigating	3	<2	<2	2
faecal coliforms	CFU/100mL	every 6 days when irrigating	3	3	67	140
nitrogen (ammonia)	mg/L	every 6 days when irrigating	3	0.02	0.03	0.03
nitrogen (total)	mg/L	every 6 days when irrigating	3	2.26	2.46	2.74
pH	pH Units	every 6 days when irrigating	3	8.74	8.83	8.94
phosphorus (total)	mg/L	every 6 days when irrigating	3	0.06	0.08	0.1
total suspended solids	mg/L	every 6 days when irrigating	3	<2	<2	2

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	mean result	maximum result
biochemical oxygen demand	mg/L	every 6 days when irrigating	2	<2	5	10
carbonaceous biochemical oxygen demand	mg/L	every 6 days when irrigating	2	<2	5	10
faecal coliforms	CFU/100mL	every 6 days when irrigating	2	5	17	29
nitrogen (ammonia)	mg/L	every 6 days when irrigating	2	0.21	0.26	0.3
nitrogen (total)	mg/L	every 6 days when irrigating	2	3.92	4.01	4.1

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	mean result	maximum result
pH	pH Units	every 6 days when irrigating	2	7.67	7.79	7.9
phosphorus (total)	mg/L	every 6 days when irrigating	2	0.02	0.02	0.02
total suspended solids	mg/L	every 6 days when irrigating	2	<2	<2	<2

Average and percentile limits are only applied annually for routine monitoring data.

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).

Picton Wastewater Treatment Plant

September Pollution Monitoring Summary



EPL 10555

Summary period: 01-09-2020 to 30-09-2020

Date obtained: 06-10-2020

Date published: 19-10-2020

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: Routine monitoring data

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	mean result	maximum result
biochemical oxygen demand	mg/L	on bypass	12	<2	<2	<2
carbonaceous biochemical oxygen demand	mg/L	on bypass	12	<2	<2	<2
faecal coliforms	CFU/100mL	on bypass	12	9	36	83
nitrogen (ammonia)	mg/L	on bypass	12	0.2	0.36	0.5
nitrogen (total)	mg/L	on bypass	12	3.3	3.78	4.02
phosphorus (total)	mg/L	on bypass	12	0.02	0.02	0.03
total suspended solids	mg/L	on bypass	12	<2	<2	9

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	mean result	maximum result
biochemical oxygen demand	mg/L	every 6 days when irrigating	1	-	-	3
carbonaceous biochemical oxygen demand	mg/L	every 6 days when irrigating	1	-	-	3
faecal coliforms	CFU/100mL	every 6 days when irrigating	1	-	-	2
nitrogen (ammonia)	mg/L	every 6 days when irrigating	1	-	-	0.02
nitrogen (total)	mg/L	every 6 days when irrigating	1	-	-	2.82
pH	pH Units	every 6 days when irrigating	1	-	-	8.61
phosphorus (total)	mg/L	every 6 days when irrigating	1	-	-	0.16
total suspended solids	mg/L	every 6 days when irrigating	1	-	-	5

Average and percentile limits are only applied annually for routine monitoring data.

As per clause M2.4 under EPL 10555, collection of samples every 6 days from PI0013 is required when the irrigation system at EPA Point 13 is operating at the time of sampling. The irrigation system was not operating at the time of sampling the 6-day cycle during the September monitoring period.

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).

Note: biochemical oxygen demand monitoring commenced from September 2020.

Picton Wastewater Treatment Plant

August Pollution Monitoring Summary



EPL 10555

Summary period: 01-08-2020 to 31-08-2020

Date obtained: 01-09-2020

Date published: 14-09-2020

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: Routine monitoring data

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	mean result	maximum result
carbonaceous biochemical oxygen demand	mg/L	on bypass	10	<2	<2	<2
faecal coliforms	CFU/100mL	on bypass	10	21	82	320
nitrogen (ammonia)	mg/L	on bypass	10	0.2	0.28	0.4
nitrogen (total)	mg/L	on bypass	10	3.62	3.72	3.97
phosphorus (total)	mg/L	on bypass	10	0.02	0.02	0.03
total suspended solids	mg/L	on bypass	10	<2	<2	3

Average and percentile limits are only applied annually for routine monitoring data.

Note: under EPL 10555 clause M2.4, "Special Frequency 2" means samples to be collected from EPA Point 11 and EPA Point 13 every 6 days when the irrigation system is operating at the time of sampling. No samples were collected at EPA Point 11 and EPA Point 13 during the August monitoring period as the irrigation system was not operating on the 6-day cycle.

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).

Picton Wastewater Treatment Plant

July Pollution Monitoring Summary



EPL 10555

Summary period: 01-07-2020 to 31-07-2020

Date obtained: 09-08-2020

Date published: 14-08-2020

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: Routine monitoring data

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	mean result	maximum result
carbonaceous biochemical oxygen demand	mg/L	on bypass	23	<2	<2	<2
faecal coliforms	CFU/100mL	on bypass	23	26	64	230
nitrogen (ammonia)	mg/L	on bypass	23	<0.1	0.16	0.2
nitrogen (total)	mg/L	on bypass	23	3.89	4.45	4.99
phosphorus (total)	mg/L	on bypass	23	0.02	0.03	0.05
total suspended solids	mg/L	on bypass	23	<2	<2	<2

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	mean result	maximum result
carbonaceous biochemical oxygen demand	mg/L	every 6 days when irrigating	1	-	-	6
faecal coliforms	CFU/100mL	every 6 days when irrigating	1	-	-	8
nitrogen (ammonia)	mg/L	every 6 days when irrigating	1	-	-	0.11
nitrogen (total)	mg/L	every 6 days when irrigating	1	-	-	2.74
pH	pH Units	every 6 days when irrigating	1	-	-	7.77
phosphorus (total)	mg/L	every 6 days when irrigating	1	-	-	0.17
total suspended solids	mg/L	every 6 days when irrigating	1	-	-	2

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	mean result	maximum result
carbonaceous biochemical oxygen demand	mg/L	every 6 days when irrigating	2	<2	2	4
faecal coliforms	CFU/100mL	every 6 days when irrigating	2	53	59	65
nitrogen (ammonia)	mg/L	every 6 days when irrigating	2	0.09	0.13	0.16
nitrogen (total)	mg/L	every 6 days when irrigating	2	4.35	4.42	4.48
pH	pH Units	every 6 days when irrigating	2	7.51	7.59	7.67
phosphorus (total)	mg/L	every 6 days when irrigating	2	0.03	0.04	0.04

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	mean result	maximum result
total suspended solids	mg/L	every 6 days when irrigating	2	<2	<2	<2

Average and percentile limits are only applied annually for routine monitoring data.

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).