

WWTP Effluent Monitoring

Annual Summary

31/03/2012 to 30/04/2020



*Notes regarding Licence Limits

A single number denotes a maximum value that should not be exceeded.

Two numbers separated by a slash " / " denote a 90% limit and a maximum limit.

Two numbers separated by a dash " - " denote minimum and maximum limits.

90 percentiles explained

Within a licence for each pollutant listed by the EPA, it will have a limit value. This value may be a 100 percentile limit where samples must meet the limit value 100% of the time. Lower limits may also be assigned.

Where there are limit values lower than a 100% limit a sample or samples test results can exceed the limit value. For example, if a 90 percentile limit is assigned to a pollutant, this means 90% of collected samples should meet the limit value. If 10 samples are required in a year only one sample of the ten samples for the year is allowed to exceed the 90 percentile limit value. If more than one sample exceeds this value this would be a non-compliance of the licence conditions.

Treatment Plant: Mooball

EPA Licence Number: 20172

License Year: 30 October to 29 October

Monitoring Point: MoWWTP/Effluent

EPA Point: Point 1

Summary Period	Pollutant	Units	Count	Min	Max	Mean	90% Value	Limits*	Exceedance
30/10/2012 to 29/10/2013 Published: 11 Nov	Ammonia	mg/L	4	0.1	1.34	0.57	1.106	2 / 4	No
	BOD5	mg/L	4	<1.0	3.3	1.88	2.91	10 / 20	No
	Oil & Grease	mg/L	4	<2	<2	<2.0	0.0	5 / 10	No
	pH	pH units	4	7.1	7.3	7.18	7.27	6.5-8.5	No
	Suspended Solids	mg/L	4	1.4	4.4	2.5	3.86	15 / 30	No
	Thermotolerant Coliforms	cfu/100 ml	4	<1	1	1	0.7	200 / 600	No
	Total Nitrogen	mg/L	4	1.9	6.73	3.85	6.01	10 / 20	No
	Total Phosphorus	mg/L	4	0.07	0.2	0.12	0.176	0.5 / 1	No
Summary Period	Pollutant	Units	Count	Min	Max	Mean	90% Value	Limits*	Exceedance
30/10/2013 to 29/10/2014 Published: 10 Nov	Ammonia	mg/L	27	0.03	8.29	1.69	6.82	2 / 4	Yes
	BOD5	mg/L	27	<1.0	16.0	1.87	2.58	10 / 20	No
	Oil & Grease	mg/L	27	<2	2	2	0.0	5 / 10	No
	pH	pH units	27	6.9	7.6	7.22	7.54	6.5-8.5	No
	Suspended Solids	mg/L	27	<1.0	17.0	2.82	6.44	15 / 30	No
	Thermotolerant Coliforms	cfu/100 ml	27	<1	18	2	3.8	200 / 600	No
	Total Nitrogen	mg/L	27	1.96	23.1	7.0	13.496	10 / 20	Yes
	Total Phosphorus	mg/L	27	0.07	1.13	0.29	0.61	0.5 / 1	Yes

WWTP Effluent Monitoring

Annual Summary

31/03/2012 to 30/04/2020



Summary Period	Pollutant	Units	Count	Min	Max	Mean	90% Value	Limits*	Exceedance
30/10/2014 to 29/10/2015 Published: 21 Jan	Ammonia	mg/L	26	<0.02	14.7	0.81	0.43	2 / 4	Yes
	BOD5	mg/L	26	<1.0	3.6	1.45	2.4	10 / 20	No
	Oil & Grease	mg/L	26	<2	8	3	5.0	5 / 10	No
	pH	pH units	26	6.9	7.3	7.08	7.3	6.5-8.5	No
	Suspended Solids	mg/L	26	<1.0	7.3	1.93	3.25	15 / 30	No
	Thermotolerant Coliforms	cfu/100 ml	27	<1	4500	169	3.4	200 / 600	Yes
	Total Nitrogen	mg/L	26	0.9	19.8	7.34	15.1	10 / 20	Yes
	Total Phosphorus	mg/L	26	0.07	0.34	0.17	0.265	0.5 / 1	No
30/10/2015 to 29/10/2016 Published: 03 Nov	Ammonia	mg/L	26	<0.02	1.83	0.15	0.3	2 / 4	No
	BOD5	mg/L	26	<1.0	4.6	1.24	1.3	10 / 20	No
	Oil & Grease	mg/L	26	<2.0	5.0	2.15	0.0	5 / 10	No
	pH	pH units	26	6.9	7.4	7.16	7.3	6.5-8.5	No
	Suspended Solids	mg/L	26	<1.0	9.3	2.48	5.4	15 / 30	No
	Thermotolerant Coliforms	cfu/100 ml	26	<1	1	1	0.5	200 / 600	No
	Total Nitrogen	mg/L	26	1.69	11.49	6.16	10.41	10 / 20	Yes
	Total Phosphorus	mg/L	26	0.07	0.44	0.18	0.235	0.5 / 1	No
30/10/2016 to 29/10/2017 Published: 06 Nov	Ammonia	mg/L	26	<0.02	4.44	0.25	0.29	2 / 4	Yes
	BOD5	mg/L	26	<1.0	2.6	1.35	2.1	10 / 20	No
	Oil & Grease	mg/L	26	<2	3	2	2.0	5 / 10	No
	pH	pH units	26	7.1	7.6	7.32	7.45	6.5-8.5	No
	Suspended Solids	mg/L	26	<1.0	22.5	4.87	14.0	15 / 30	No
	Thermotolerant Coliforms	cfu/100 ml	26	<1	10	1	0.0	200 / 600	No
	Total Nitrogen	mg/L	26	1.12	11.85	3.97	6.685	10 / 20	No
	Total Phosphorus	mg/L	26	0.07	0.46	0.23	0.365	0.5 / 1	No
30/10/2017 to 29/10/2018 Published: 12 Nov	Ammonia	mg/L	26	<0.02	0.46	0.06	0.09	2 / 4	No
	BOD5	mg/L	26	<1.0	3.8	1.35	2.0	10 / 20	No
	Oil & Grease	mg/L	26	<2.0	3.7	2.25	3.05	5 / 10	No

WWTP Effluent Monitoring

Annual Summary

31/03/2012 to 30/04/2020



Summary Period 30/10/2017 to 29/10/2018 Published: 12 Nov	pH	pH units	26	7.1	7.6	7.32	7.4	6.5-8.5	No
	Suspended Solids	mg/L	26	<1.0	8.4	2.86	5.1	15 / 30	No
	Thermotolerant Coliforms	cfu/100 ml	26	<1	4	1	1.5	200 / 600	No
	Total Nitrogen	mg/L	26	0.95	8.53	2.88	5.955	10 / 20	No
	Total Phosphorus	mg/L	26	0.14	0.69	0.24	0.35	0.5 / 1	No
Summary Period 30/10/2018 to 29/10/2019 Published: 04 Nov	Pollutant	Units	Count	Min	Max	Mean	90% Value	Limits*	Exceedance
	Ammonia	mg/L	26	0.03	5.12	0.52	1.73	2 / 4	Yes
	BOD5	mg/L	26	<1.0	1.8	1.18	1.8	10 / 20	No
	Oil & Grease	mg/L	26	<2.0	2.2	2.01	0.0	5 / 10	No
	pH	pH units	26	6.7	7.6	7.21	7.4	6.5-8.5	No
	Suspended Solids	mg/L	26	<1.0	6.0	2.45	4.3	15 / 30	No
	Thermotolerant Coliforms	cfu/100 ml	26	<1	2	1	0.0	200 / 600	No
	Total Nitrogen	mg/L	26	1.08	22.6	4.74	7.8	10 / 20	Yes
Total Phosphorus	mg/L	26	0.1	0.34	0.19	0.255	0.5 / 1	No	
Summary Period 30/10/2019 to 29/10/2020 Published: 08 Apr	Pollutant	Units	Count	Min	Max	Mean	90% Value	Limits*	Exceedance
	Ammonia	mg/L	13	0.02	0.24	0.07	0.12	2 / 4	No
	BOD5	mg/L	13	<1.0	2.6	1.51	2.48	10 / 20	No
	Oil & Grease	mg/L	13	<2	3	2	2.0	5 / 10	No
	pH	pH units	13	7.2	7.5	7.42	7.5	6.5-8.5	No
	Suspended Solids	mg/L	13	1.2	7.8	3.29	4.8	15 / 30	No
	Thermotolerant Coliforms	cfu/100 ml	13	<1	2	1	0.0	200 / 600	No
	Total Nitrogen	mg/L	13	1.05	9.03	3.83	7.098	10 / 20	No
Total Phosphorus	mg/L	13	0.13	1.11	0.27	0.296	0.5 / 1	Yes	