

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: Banora Point

EPA Licence Number: 1411

License Year: 01 December to 30 November

Monitoring Point: BPWWTP/Effluent

EPA Point: Point 1

Summary Period	Pollutant	Units	Count	Min	Max	Mean	90% Value	Limits*	Exceedance
1/12/2011 to 30/11/2012 Published: 23 Jan	BOD5	mg/L	35	<1.0	5.4	2.02	3.04	15 / 35	No
	Oil & Grease	mg/L	35	<2	5	2	3.0	10	No
	pH	pH units	35	7.1	9.0	7.51	7.82	6.5-8.5	Yes
	Suspended Solids	mg/L	35	<1.0	25.0	4.52	10.6	20 / 40	No
	Thermotolerant Coliforms	cfu/100 ml	35	20	5900	479	850.0	10000	No
	Total Nitrogen	mg/L	35	1.92	16.0	5.02	9.828	10 / 20	No
	Total Phosphorus	mg/L	35	0.24	3.41	1.04	2.506	5 / 10	No
1/12/2012 to 30/11/2013 Published: 11 Dec	BOD5	mg/L	52	<1.0	4.2	1.86	3.0	15 / 35	No
	Oil & Grease	mg/L	52	<2	3	2	0.0	10	No
	pH	pH units	52	7.1	9.2	7.97	8.49	6.5-8.5	Yes
	Suspended Solids	mg/L	52	1.0	22.0	5.54	10.9	20 / 40	No
	Thermotolerant Coliforms	cfu/100 ml	51	<2	5700	432	520.0	10000	No
	Total Nitrogen	mg/L	52	1.17	4.45	2.24	3.058	10 / 20	No
	Total Phosphorus	mg/L	52	0.07	4.33	0.39	0.738	5 / 10	No

WWTP Effluent Monitoring

Annual Summary

31/03/2012 to 30/04/2020



Summary Period 1/12/2013 to 30/11/2014 Published: 11 Dec	Pollutant	Units	Count	Min	Max	Mean	90% Value	Limits*	Exceedance
	BOD5	mg/L	52	<1.0	7.8	2.05	4.18	15 / 35	No
	Oil & Grease	mg/L	52	<2	6	2	2.0	10	No
	pH	pH units	52	7.5	9.3	8.15	9.1	6.5-8.5	Yes
	Suspended Solids	mg/L	52	<1.0	34.0	7.32	20.9	20 / 40	Yes
	Thermotolerant Coliforms	cfu/100 ml	52	<9	270	61	110.0	10000	No
	Total Nitrogen	mg/L	52	1.29	4.35	2.44	3.636	10 / 20	No
Total Phosphorus	mg/L	52	0.06	0.68	0.2	0.444	5 / 10	No	
Summary Period 1/12/2014 to 30/11/2015 Published: 14 Dec	Pollutant	Units	Count	Min	Max	Mean	90% Value	Limits*	Exceedance
	Ammonia	mg/L	52	<0.02	4.68	0.16	0.14	2 / 5	No
	BOD5	mg/L	52	<1.0	79.0	2.78	1.98	10 / 20	Yes
	Oil & Grease	mg/L	52	<2	16	3	2.9	5 / 10	Yes
	pH	pH units	52	7.2	8.9	7.69	8.19	6.5-8.5	Yes
	Suspended Solids	mg/L	52	<1.0	17.0	2.69	4.47	15 / 30	No
	Thermotolerant Coliforms	cfu/100 ml	52	<1	1130	199	502.0	200 / 600	Yes
	Total Nitrogen	mg/L	52	1.48	7.5	2.49	3.474	10 / 20	No
Total Phosphorus	mg/L	52	0.06	1.0	0.16	0.249	0.5 / 1	No	
Summary Period 1/12/2015 to 30/11/2016 Published: 14 Dec	Pollutant	Units	Count	Min	Max	Mean	90% Value	Limits*	Exceedance
	Ammonia	mg/L	52	<0.02	2.06	0.14	0.149	2 / 5	No
	BOD5	mg/L	52	<1.0	2.4	1.13	1.49	10 / 20	No
	Oil & Grease	mg/L	52	<2.0	3.2	2.06	2.0	5 / 10	No
	pH	pH units	52	7.1	8.6	7.55	7.8	6.5-8.5	Yes
	Suspended Solids	mg/L	52	<1.0	6.9	1.76	3.0	15 / 30	No
	Thermotolerant Coliforms	cfu/100 ml	52	8	1220	150	366.0	200 / 600	Yes
	Total Nitrogen	mg/L	52	1.5	4.49	2.23	2.753	10 / 20	No
Total Phosphorus	mg/L	52	0.05	0.19	0.09	0.119	0.5 / 1	No	
Summary Period 1/12/2015 to 30/11/2016 Published: 25 Jan	Pollutant	Units	Count	Min	Max	Mean	90% Value	Limits*	Exceedance
	Ammonia	mg/L	52	0.03	12.97	0.39	0.295	2 / 5	Yes
	BOD5	mg/L	52	<1.0	29.0	1.68	1.59	10 / 20	Yes
	Oil & Grease	mg/L	52	<2.0	4.0	2.07	2.0	5 / 10	No
	pH	pH units	52	7.1	8.0	7.56	7.7	6.5-8.5	No

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Annual Summary

31/03/2012 to 30/04/2020



Summary Period 1/12/2015 to 30/11/2016 Published: 25 Jan	Suspended Solids	mg/L	52	<1.0	17.0	1.87	2.69	15 / 30	No
	Thermotolerant Coliforms	cfu/100 ml	52	<1	69000	132782	255.0	200 / 600	Yes
	Total Nitrogen	mg/L	52	1.68	15.18	2.59	2.658	10 / 20	No
	Total Phosphorus	mg/L	52	0.07	2.47	0.15	0.15	0.5 / 1	Yes
Summary Period 1/12/2017 to 30/11/2018 Published: 13 Dec	Pollutant	Units	Count	Min	Max	Mean	90% Value	Limits*	Exceedance
	Ammonia	mg/L	52	<0.02	0.37	0.07	0.12	2 / 5	No
	BOD5	mg/L	52	<1.0	4.6	1.35	1.98	10 / 20	No
	Oil & Grease	mg/L	52	<2.0	4.0	2.12	2.543	5 / 10	No
	pH	pH units	52	7.6	9.0	7.88	8.19	6.5-8.5	Yes
	Suspended Solids	mg/L	52	<1.0	12.0	2.06	4.19	15 / 30	No
	Thermotolerant Coliforms	cfu/100 ml	52	<1	630	116	258.0	200 / 600	Yes
	Total Nitrogen	mg/L	52	1.59	4.95	2.24	2.628	10 / 20	No
Total Phosphorus	mg/L	52	0.05	0.45	0.09	0.11	0.5 / 1	No	
Summary Period 1/12/2018 to 30/11/2019 Published: 11 Dec	Pollutant	Units	Count	Min	Max	Mean	90% Value	Limits*	Exceedance
	Ammonia	mg/L	52	<0.02	0.36	0.07	0.157	2 / 5	No
	BOD5	mg/L	52	<1.0	5.1	1.34	1.8	10 / 20	No
	Oil & Grease	mg/L	52	<2.0	4.25	2.13	1.8	5 / 10	No
	pH	pH units	52	7.2	8.6	7.86	8.39	6.5-8.5	Yes
	Suspended Solids	mg/L	52	<1.0	11.0	2.61	6.54	15 / 30	No
	Thermotolerant Coliforms	cfu/100 ml	52	<1	610	109	266.5	200 / 600	Yes
	Total Nitrogen	mg/L	52	1.45	2.72	2.08	2.579	10 / 20	No
Total Phosphorus	mg/L	52	0.04	0.11	0.07	0.11	0.5 / 1	No	

WWTP Effluent Monitoring

Annual Summary

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Summary Period	Pollutant	Units	Count	Min	Max	Mean	90% Value	Limits*	Exceedance
1/12/2019 to 30/11/2020	Ammonia	mg/L	22	<0.02	0.17	0.07	0.127	2 / 5	No
Published: 06 Apr	BOD5	mg/L	22	<1.0	2.7	1.38	1.98	10 / 20	No
	Oil & Grease	mg/L	22	<2	4	2	2.7	5 / 10	No
	pH	pH units	22	7.1	9.1	7.89	8.69	6.5-8.5	Yes
	Suspended Solids	mg/L	22	<1.0	7.4	2.77	5.96	15 / 30	No
	Thermotolerant Coliforms	cfu/100 ml	22	22	1530	316	553.0	200 / 600	Yes
	Total Nitrogen	mg/L	22	1.77	3.14	2.33	2.738	10 / 20	No
	Total Phosphorus	mg/L	22	0.06	0.43	0.13	0.241	0.5 / 1	No