

# 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: Kingscliff**

**EPA Licence Number: 12684**

**License Year: 07 February to 06 February**

Monitoring Point: KWWTP/Effluent      EPA Point: Point 1

Summary Period	Pollutant	Units	Count	Min	Max	Mean	90% Value	Limits*	Exceedance
7/02/2014 to 6/02/2015 Published: 04 Mar	Ammonia	mg/L	26	<0.02	0.3	0.06	0.075	2 / 4	No
	BOD5	mg/L	26	<1.0	3.8	1.45	2.5	10 / 20	No
	Oil & Grease	mg/L	26	<2	4	2	1.0	5 / 10	No
	pH	pH units	26	7.5	7.9	7.7	7.8	6.5-8.5	No
	Suspended Solids	mg/L	26	<1.0	2.6	1.18	1.6	15 / 30	No
	Thermotolerant Coliforms	cfu/100 ml	27	<1	470	28	6.4	100 / 600	No
	Total Nitrogen	mg/L	26	0.84	3.32	1.51	2.14	5 / 10	No
	Total Phosphorus	mg/L	26	0.05	0.11	0.07	0.095	0.5 / 1	No
Summary Period	Pollutant	Units	Count	Min	Max	Mean	90% Value	Limits*	Exceedance
7/02/2015 to 6/02/2016 Published: 02 Mar	Ammonia	mg/L	26	<0.02	0.27	0.04	0.06	2 / 4	No
	BOD5	mg/L	26	<1.0	2.6	1.48	2.15	10 / 20	No
	Oil & Grease	mg/L	26	<2	5	2	0.0	5 / 10	No
	pH	pH units	26	7.0	7.7	7.55	7.7	6.5-8.5	No
	Suspended Solids	mg/L	26	<1.0	7.3	1.66	2.7	15 / 30	No
	Thermotolerant Coliforms	cfu/100 ml	27	<1	2500	112	75.6	100 / 600	Yes
	Total Nitrogen	mg/L	26	0.89	2.65	1.46	2.1	5 / 10	No
	Total Phosphorus	mg/L	26	0.06	0.16	0.1	0.13	0.5 / 1	No

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<b>Summary Period</b> <b>7/02/2016 to</b> <b>6/02/2017</b>  Published: 01 Mar	<b>Pollutant</b>	<b>Units</b>	<b>Count</b>	<b>Min</b>	<b>Max</b>	<b>Mean</b>	<b>90% Value</b>	<b>Limits*</b>	<b>Exceedance</b>
	Ammonia	mg/L	26	<0.02	0.22	0.03	0.03	2 / 4	No
	BOD5	mg/L	26	<1.0	4.2	1.31	1.7	10 / 20	No
	Oil & Grease	mg/L	26	<2.0	2.9	2.03	0.0	5 / 10	No
	pH	pH units	26	7.2	8.1	7.68	7.9	6.5-8.5	No
	Suspended Solids	mg/L	26	<1.0	1.4	1.07	1.2	15 / 30	No
	Thermotolerant Coliforms	cfu/100 ml	26	<1	47	5	14.0	100 / 600	No
	Total Nitrogen	mg/L	26	0.91	3.72	1.68	2.855	5 / 10	No
Total Phosphorus	mg/L	26	<0.02	0.15	0.09	0.125	0.5 / 1	No	
<b>Summary Period</b> <b>7/02/2012 to</b> <b>6/02/2013</b>  Published: 07 Feb	<b>Pollutant</b>	<b>Units</b>	<b>Count</b>	<b>Min</b>	<b>Max</b>	<b>Mean</b>	<b>90% Value</b>	<b>Limits*</b>	<b>Exceedance</b>
	Ammonia	mg/L	49	<0.02	2.46	0.1	0.102	2 / 4	No
	BOD5	mg/L	49	<1.0	5.0	1.47	2.48	10 / 20	No
	Oil & Grease	mg/L	49	<2.0	8.0	2.27	2.6	5 / 10	No
	pH	pH units	49	7.6	8.0	7.77	7.9	6.5-8.5	No
	Suspended Solids	mg/L	49	<1.0	5.0	1.2	1.4	15 / 30	No
	Thermotolerant Coliforms	cfu/100 ml	49	<1	560	15	7.0	100 / 600	No
	Total Nitrogen	mg/L	49	0.84	5.83	1.86	2.632	5 / 10	No
Total Phosphorus	mg/L	49	0.05	0.41	0.09	0.13	0.5 / 1	No	
<b>Summary Period</b> <b>7/02/2013 to</b> <b>6/02/2014</b>  Published: 06 Feb	<b>Pollutant</b>	<b>Units</b>	<b>Count</b>	<b>Min</b>	<b>Max</b>	<b>Mean</b>	<b>90% Value</b>	<b>Limits*</b>	<b>Exceedance</b>
	Ammonia	mg/L	52	<0.02	0.26	0.04	0.059	2 / 4	No
	BOD5	mg/L	52	<1.0	5.0	1.23	1.6	10 / 20	No
	Oil & Grease	mg/L	52	<2	3	2	0.0	5 / 10	No
	pH	pH units	52	7.2	8.0	7.74	7.9	6.5-8.5	No
	Suspended Solids	mg/L	52	<1.0	25.0	1.99	1.78	15 / 30	No
	Thermotolerant Coliforms	cfu/100 ml	52	<1	74	5	5.9	100 / 600	No
	Total Nitrogen	mg/L	52	0.9	2.67	1.57	2.34	5 / 10	No
Total Phosphorus	mg/L	52	0.04	0.48	0.09	0.11	0.5 / 1	No	
<b>Summary Period</b> <b>7/02/2019 to</b> <b>6/02/2020</b>  Published: 11 Feb	<b>Pollutant</b>	<b>Units</b>	<b>Count</b>	<b>Min</b>	<b>Max</b>	<b>Mean</b>	<b>90% Value</b>	<b>Limits*</b>	<b>Exceedance</b>
	Ammonia	mg/L	26	<0.02	0.03	0.02	0.03	2 / 4	No
	BOD5	mg/L	26	<1.0	4.2	1.36	2.0	10 / 20	No
	Oil & Grease	mg/L	26	<2	3	2	0.0	5 / 10	No

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<b>Summary Period</b> <b>7/02/2019 to</b> <b>6/02/2020</b>  Published: 11 Feb	pH	pH units	26	7.4	7.9	7.61	7.8	6.5-8.5	No
	Suspended Solids	mg/L	26	<1.0	2.0	1.11	1.5	15 / 30	No
	Thermotolerant Coliforms	cfu/100 ml	26	<1	33	3	2.5	100 / 600	No
	Total Nitrogen	mg/L	26	0.99	2.69	1.76	2.49	5 / 10	No
	Total Phosphorus	mg/L	26	0.07	0.13	0.09	0.115	0.5 / 1	No
<b>Summary Period</b> <b>7/02/2020 to</b> <b>6/02/2021</b>  Published: 08 Apr	<b>Pollutant</b>	<b>Units</b>	<b>Count</b>	<b>Min</b>	<b>Max</b>	<b>Mean</b>	<b>90% Value</b>	<b>Limits*</b>	<b>Exceedance</b>
	Ammonia	mg/L	6	<0.02	0.02	0.02	0.02	2 / 4	No
	BOD5	mg/L	6	<1.0	1.2	1.07	1.2	10 / 20	No
	Oil & Grease	mg/L	6	<2	<2	2	0.0	5 / 10	No
	pH	pH units	6	7.1	7.7	7.5	7.7	6.5-8.5	No
	Suspended Solids	mg/L	6	<1.0	2.4	1.27	1.8	15 / 30	No
	Thermotolerant Coliforms	cfu/100 ml	6	<1	12	4	9.5	100 / 600	No
	Total Nitrogen	mg/L	6	0.82	2.26	1.32	1.975	5 / 10	No
Total Phosphorus	mg/L	6	0.08	0.14	0.1	0.12	0.5 / 1	No	