

# 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: Tyalgum**

**EPA Licence Number: 3470**

**License Year: 27 July to 26 July**

Monitoring Point: TyWWTP/Effluent

EPA Point: Point 1

Summary Period	Pollutant	Units	Count	Min	Max	Mean	90% Value	Limits*	Exceedance
27/07/2011 to 26/07/2012 Published: 09 Aug	BOD5	mg/L	9	<1.0	14.0	3.61	8.08	25 / 40	No
	Oil & Grease	mg/L	9	<2	5	2	3.4	10	No
	Suspended Solids	mg/L	9	2.2	45.0	13.21	33.8	50 / 75	No
	Thermotolerant Coliforms	cfu/100 ml	9	<10	310	119	278.0	na	-
	Total Nitrogen	mg/L	9	2.12	3.44	2.58	2.968	na	-
	Total Phosphorus	mg/L	9	0.55	1.27	0.8	1.19	na	-
27/07/2012 to 26/07/2013 Published: 08 Aug	BOD5	mg/L	26	1.0	14.0	3.6	8.2	25 / 40	No
	Oil & Grease	mg/L	26	<2	<2	2	0.0	10	No
	Suspended Solids	mg/L	26	3.0	58.0	15.87	34.0	50 / 75	No
	Thermotolerant Coliforms	cfu/100 ml	26	5	940	272	620.0	na	-
	Total Nitrogen	mg/L	26	1.04	4.34	2.17	3.345	na	-
	Total Phosphorus	mg/L	26	0.38	3.31	1.62	3.285	na	-
27/07/2013 to 26/07/2014 Published: 12 Aug	BOD5	mg/L	26	<1.0	22.0	7.18	14.0	25 / 40	No
	Oil & Grease	mg/L	26	<2	4	2	1.5	10	No
	Suspended Solids	mg/L	26	14	72	34	57.0	50 / 75	Yes
	Thermotolerant Coliforms	cfu/100 ml	26	90	920	259	405.0	na	-
	Total Nitrogen	mg/L	26	1.89	5.28	3.5	4.75	na	-
	Total Phosphorus	mg/L	26	0.51	3.78	1.79	3.3	na	-

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Summary Period	Pollutant	Units	Count	Min	Max	Mean	90% Value	Limits*	Exceedance
27/07/2014 to 26/07/2015  Published: 06 Aug	BOD5	mg/L	26	3.0	26.0	9.7	18.5	25 / 40	No
	Oil & Grease	mg/L	26	<2.0	9.0	2.83	4.5	10	No
	Suspended Solids	mg/L	26	18	152	56	117.0	50 / 75	Yes
	Thermotolerant Coliforms	cfu/100 ml	26	<10	860	234	425.0	na	-
	Total Nitrogen	mg/L	26	1.53	5.81	2.96	4.955	na	-
	Total Phosphorus	mg/L	26	1.04	4.78	2.8	4.49	na	-
27/07/2015 to 26/07/2016  Published: 11 Aug	BOD5	mg/L	26	1.8	8.4	4.89	7.35	25 / 40	No
	Oil & Grease	mg/L	26	<2	5	2	2.5	10	No
	Suspended Solids	mg/L	26	5.8	49.0	22.12	38.0	50 / 75	No
	Thermotolerant Coliforms	cfu/100 ml	26	<10	6800	814	2070.0	na	-
	Total Nitrogen	mg/L	26	1.37	5.48	2.65	4.11	na	-
	Total Phosphorus	mg/L	26	0.5	2.65	1.62	2.34	na	-
27/07/2016 to 26/07/2017  Published: 02 Aug	BOD5	mg/L	26	2.4	15.9	8.69	12.0	25 / 40	No
	Oil & Grease	mg/L	26	<2	4	2	3.0	10	No
	Suspended Solids	mg/L	26	18.5	68.0	33.4	49.5	50 / 75	No
	Thermotolerant Coliforms	cfu/100 ml	26	50	2720	503	1275.0	na	-
	Total Nitrogen	mg/L	26	1.42	6.27	2.66	3.375	na	-
	Total Phosphorus	mg/L	26	0.36	4.3	1.92	3.795	na	-
27/07/2017 to 26/07/2018  Published: 01 Aug	BOD5	mg/L	26	<1.0	12.6	5.8	10.1	25 / 40	No
	Oil & Grease	mg/L	26	<2.0	3.4	2.21	3.0	10	No
	Suspended Solids	mg/L	26	6.3	51.0	27.41	43.0	50 / 75	No
	Thermotolerant Coliforms	cfu/100 ml	26	30	4500	576	1350.0	na	-
	Total Nitrogen	mg/L	26	1.63	6.65	3.33	5.04	na	-
	Total Phosphorus	mg/L	26	0.43	2.0	1.06	1.655	na	-

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Summary Period	Pollutant	Units	Count	Min	Max	Mean	90% Value	Limits*	Exceedance
<b>27/07/2018 to 26/07/2019</b>  Published: 12 Aug	BOD5	mg/L	26	2.0	21.9	8.96	15.8	25 / 40	No
	Oil & Grease	mg/L	26	<2.0	3.6	2.19	2.45	10	No
	Suspended Solids	mg/L	26	6.3	64.0	32.29	53.5	50 / 75	Yes
	Suspended Solids Corrected	mg/L	1	11.9	11.9	11.9	11.9	50 / 75	No
	Thermotolerant Coliforms	cfu/100 ml	26	10	2720	596	1424.0	na	-
	Total Nitrogen	mg/L	26	1.94	7.93	4.14	6.17	na	-
	Total Phosphorus	mg/L	26	0.7	3.16	1.73	2.66	na	-
<b>27/07/2019 to 26/07/2020</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>
	BOD5	mg/L	20	3.6	33.0	13.77	22.0	25 / 40	No
	Oil & Grease	mg/L	20	<2	8	3	4.1	10	No
	Suspended Solids	mg/L	20	5.5	140.0	60.53	122.8	50 / 75	Yes
	Thermotolerant Coliforms	cfu/100 ml	20	40	2800	995	2170.0	na	-
	Total Nitrogen	mg/L	20	1.64	7.78	4.91	7.063	na	-
	Total Phosphorus	mg/L	20	0.02	3.52	1.95	3.266	na	-