

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: Hastings Point

EPA Licence Number: 3618

License Year: 19 February to 18 February

Monitoring Point: HPWWTP/Effluent

EPA Point: Point 1

Summary Period	Pollutant	Units	Count	Min	Max	Mean	90% Value	Limits*	Exceedance
19/02/2012 to 18/02/2013 Published: 11 Mar	BOD5	mg/L	23	<1.0	4.6	2.46	4.08	10 / 20	No
	Oil & Grease	mg/L	23	<2	3	2	2.8	5 / 10	No
	pH	pH units	23	6.9	7.4	7.17	7.3	6.5-8.5	No
	Suspended Solids	mg/L	23	<1.0	6.2	2.12	4.12	15 / 30	No
	Thermotolerant Coliforms	cfu/100 ml	23	<1	26	2	0.8	na	-
	Total Nitrogen	mg/L	23	4.72	8.66	6.05	7.966	10 / 20	No
	Total Phosphorus	mg/L	23	0.21	0.83	0.4	0.564	1 / 2	No
19/02/2013 to 18/02/2014 Published: 04 Mar	BOD5	mg/L	26	<1.0	6.0	2.6	3.2	10 / 20	No
	Oil & Grease	mg/L	26	<2	<2	<2.0	0.0	5 / 10	No
	pH	pH units	26	6.7	7.4	7.13	7.35	6.5-8.5	No
	Suspended Solids	mg/L	26	<1.0	12.0	2.81	4.4	15 / 30	No
	Thermotolerant Coliforms	cfu/100 ml	26	<1	190	14	8.0	na	-
	Total Nitrogen	mg/L	26	3.53	11.08	6.18	8.115	10 / 20	No
	Total Phosphorus	mg/L	26	0.17	0.82	0.34	0.58	1 / 2	No

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Summary Period 19/02/2014 to 18/02/2015 Published: 02 Mar	Pollutant	Units	Count	Min	Max	Mean	90% Value	Limits*	Exceedance
	BOD5	mg/L	27	<1.0	3.3	1.47	2.4	10 / 20	No
	Oil & Grease	mg/L	27	<2	4	2	2.4	5 / 10	No
	pH	pH units	27	6.8	7.4	7.13	7.3	6.5-8.5	No
	Suspended Solids	mg/L	27	<1.0	4.8	1.61	2.2	15 / 30	No
	Thermotolerant Coliforms	cfu/100 ml	27	<1	2600	115	82.6	na	-
	Total Nitrogen	mg/L	27	0.4	9.7	6.88	9.6	10 / 20	No
Total Phosphorus	mg/L	27	0.16	1.91	0.41	0.682	1 / 2	No	
Summary Period 19/02/2015 to 18/02/2016 Published: 01 Mar	Pollutant	Units	Count	Min	Max	Mean	90% Value	Limits*	Exceedance
	BOD5	mg/L	26	<1.0	9.8	3.02	8.1	10 / 20	No
	Oil & Grease	mg/L	26	<2	5	2	3.0	5 / 10	No
	pH	pH units	26	7.0	7.4	7.19	7.35	6.5-8.5	No
	Suspended Solids	mg/L	26	<1.0	4.0	1.46	2.05	15 / 30	No
	Thermotolerant Coliforms	cfu/100 ml	26	<1	23	2	2.0	na	-
	Total Nitrogen	mg/L	26	3.44	8.99	6.32	8.505	10 / 20	No
Total Phosphorus	mg/L	26	0.25	0.79	0.46	0.625	1 / 2	No	
Summary Period 19/02/2016 to 18/02/2017 Published: 01 Mar	Pollutant	Units	Count	Min	Max	Mean	90% Value	Limits*	Exceedance
	BOD5	mg/L	26	<1.0	12.0	2.25	5.2	10 / 20	No
	Oil & Grease	mg/L	26	<2.0	3.4	2.13	1.45	5 / 10	No
	pH	pH units	26	6.8	7.4	7.1	7.3	6.5-8.5	No
	Suspended Solids	mg/L	26	<1.0	8.5	2.08	3.3	15 / 30	No
	Thermotolerant Coliforms	cfu/100 ml	26	<1	<1	<1	0.0	na	-
	Total Nitrogen	mg/L	26	4.63	18.99	7.55	9.445	10 / 20	No
Total Phosphorus	mg/L	26	0.2	2.44	0.5	0.615	1 / 2	Yes	
Summary Period 19/02/2017 to 18/02/2018 Published: 07 Mar	Pollutant	Units	Count	Min	Max	Mean	90% Value	Limits*	Exceedance
	BOD5	mg/L	26	<1.0	4.4	1.27	1.1	10 / 20	No
	Oil & Grease	mg/L	26	<2	3	2	1.0	5 / 10	No
	pH	pH units	26	7.0	7.3	7.11	7.25	6.5-8.5	No
	Suspended Solids	mg/L	26	<1.0	16.0	3.15	5.2	15 / 30	No
Thermotolerant Coliforms	cfu/100 ml	26	<1	40000	1567	26.0	na	-	

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Summary Period 19/02/2017 to 18/02/2018	Total Nitrogen	mg/L	26	4.2	23.73	7.54	10.105	10 / 20	Yes
	Total Phosphorus	mg/L	26	0.25	1.87	0.48	0.54	1 / 2	No
Summary Period 19/02/2018 to 18/02/2019 Published: 11 Mar	Pollutant	Units	Count	Min	Max	Mean	90% Value	Limits*	Exceedance
	BOD5	mg/L	26	<1.0	10.8	2.48	5.2	10 / 20	No
	Oil & Grease	mg/L	26	<2.0	4.0	2.17	2.55	5 / 10	No
	pH	pH units	26	6.9	7.6	7.3	7.5	6.5-8.5	No
	Suspended Solids	mg/L	26	<1.0	5.4	1.92	3.7	15 / 30	No
	Thermotolerant Coliforms	cfu/100 ml	26	<1	13000	528	81.0	na	-
	Total Nitrogen	mg/L	26	3.76	9.28	5.64	7.765	10 / 20	No
	Total Phosphorus	mg/L	26	0.21	1.3	0.44	0.605	1 / 2	No
Summary Period 19/02/2019 to 18/02/2020 Published: 09 Mar	Pollutant	Units	Count	Min	Max	Mean	90% Value	Limits*	Exceedance
	BOD5	mg/L	26	<1.0	7.6	2.05	4.8	10 / 20	No
	Oil & Grease	mg/L	26	<2	4	2	2.0	5 / 10	No
	pH	pH units	26	6.9	7.6	7.34	7.55	6.5-8.5	No
	Suspended Solids	mg/L	26	<1.0	5.6	2.23	4.2	15 / 30	No
	Thermotolerant Coliforms	cfu/100 ml	26	<1	123	12	23.0	na	-
	Total Nitrogen	mg/L	26	2.81	9.76	5.08	6.32	10 / 20	No
Total Phosphorus	mg/L	26	0.22	1.08	0.39	0.55	1 / 2	No	
Summary Period 19/02/2020 to 18/02/2021 Published: 08 Apr	Pollutant	Units	Count	Min	Max	Mean	90% Value	Limits*	Exceedance
	BOD5	mg/L	5	<1	1	1	0.6	10 / 20	No
	Oil & Grease	mg/L	5	<2	<2	<2.0	0.0	5 / 10	No
	pH	pH units	5	7.0	7.2	7.1	7.2	6.5-8.5	No
	Suspended Solids	mg/L	5	1.8	6.0	4.48	5.76	15 / 30	No
	Thermotolerant Coliforms	cfu/100 ml	5	<1	31	7	19.0	na	-
	Total Nitrogen	mg/L	5	3.23	8.75	4.84	7.094	10 / 20	No
Total Phosphorus	mg/L	5	0.21	0.3	0.25	0.288	1 / 2	No	