



DUNGOG WASTEWATER TREATMENT WORKS - MAY MONTHLY POLLUTION MONITORING SUMMARY

Environment Protection Licence No. 4197
 Date Obtained: 6 June 2017
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Licensee Hunter Water Corporation
 36 Honeysuckle Drive
 NEWCASTLE WEST NSW 2302

QUALITY MONITORING

Site Code 5DU0001		Site Description - Effluent Storage Pond											
Pollutant	Unit of Measurement	Sampling Frequency *	No. of times measured during the month for licence reporting	Monthly Summary 1 May 2017 to 31 May 2017									
				Minimum	Mean Value	Median Value	Maximum	3DGM Limit	3DGM Actual	100%ile Limit	100%ile Actual	Within Limits	
Biochemical Oxygen Demand	milligrams per litre	Weekly	5	2	7	9	10	N/A	N/A	N/A	N/A	N/A	N/A
Chlorophyll a	micrograms per litre	Weekly	5	<1.0	38.4	27.0	78.5	N/A	N/A	N/A	N/A	N/A	N/A
Faecal Coliforms	colony forming units per 100 mL	Weekly	5	360	4532	1600	18000	N/A	N/A	N/A	N/A	N/A	N/A
Nitrogen (Total)	milligrams per litre	Weekly	5	9.6	12.3	12.6	14.8	N/A	N/A	N/A	N/A	N/A	N/A
Oil and Grease	milligrams per litre	Weekly	5	<2	<2	<2	<2	N/A	N/A	N/A	N/A	N/A	N/A
pH	pH	Weekly	5	7.58	7.91	7.78	8.44	N/A	N/A	N/A	N/A	N/A	N/A
Total Phosphorus-unfiltered sample	milligrams per litre	Weekly	5	2.9	3.1	3.0	3.2	N/A	N/A	N/A	N/A	N/A	N/A
Total Suspended Solids	milligrams per litre	Weekly	5	8	23	17	49	N/A	N/A	N/A	N/A	N/A	N/A

Monitoring data for all samples collected from the Effluent Storage Pond during the month. Relevant samples from the complete data set have been attributed to discharge through each monitoring point and are presented below in separate tables.
 * As per the note under the licence condition M2.3, it is acceptable for the licensee to take a single sample of Storage Pond water (5DU0001) monthly to meet the monitoring requirements for Points 3, 4 and 5, provided that sample is representative of waters discharged via Points 3, 4 and 5.

EPA Id. No. 3 Site Code 5DU0001		Site Description - Discharge to Utilisation Area											
Pollutant	Unit of Measurement	Sampling Frequency *	No. of times measured during the month for licence reporting	Monthly Summary 1 May 2017 to 31 May 2017									
				Minimum	Mean Value	Median Value	Maximum	3DGM Limit	3DGM Actual	100%ile Limit	100%ile Actual	Within Limits	
Biochemical Oxygen Demand	milligrams per litre	Weekly	5	2	7	9	10	N/A	N/A	N/A	N/A	N/A	N/A
Chlorophyll a	micrograms per litre	Weekly	5	<1	38.4	27.0	78.5	N/A	N/A	N/A	N/A	N/A	N/A
Faecal Coliforms	colony forming units per 100 mL	Weekly	5	360	4532	1600	18000	N/A	N/A	N/A	N/A	N/A	N/A
Nitrogen (Total)	milligrams per litre	Weekly	5	9.6	12.3	12.6	14.8	N/A	N/A	N/A	N/A	N/A	N/A
Oil and Grease	milligrams per litre	Weekly	5	<2	<2	<2	<2	N/A	N/A	N/A	N/A	N/A	N/A
pH	pH	Weekly	5	7.58	7.91	7.78	8.44	N/A	N/A	N/A	N/A	N/A	N/A
Total Phosphorus-unfiltered sample	milligrams per litre	Weekly	5	2.9	3.1	3.0	3.2	N/A	N/A	N/A	N/A	N/A	N/A
Total Suspended Solids	milligrams per litre	Weekly	5	8	23	17	49	N/A	N/A	N/A	N/A	N/A	N/A

Monitoring data taken from Effluent Storage Pond for each week that discharge occurred during via Point 3. This data is from the same data set that comprises Table 1.
 * As per the note under the licence condition M2.3, it is acceptable for the licensee to take a single sample of Storage Pond water monthly to meet the monitoring requirements for Points 3, 4 and 5, provided that sample is representative of waters discharged via Points 3, 4 and 5.

EPA Id. No. 4 Site Code 5DU0001		Site Description - Discharge to Waters - Pump											
Pollutant	Unit of Measurement	Sampling Frequency *	No. of times measured during the month for licence reporting	Monthly Summary 1 May 2017 to 31 May 2017									
				Minimum	Mean Value	Median Value	Maximum	3DGM Limit	3DGM Actual	100%ile Limit	100%ile Actual	Within Limits	
Biochemical Oxygen Demand	milligrams per litre	Weekly	1	2	2	2	2	N/A	N/A	N/A	N/A	N/A	N/A
Chlorophyll a	micrograms per litre	Weekly	1	27.0	27.0	27.0	27.0	N/A	N/A	N/A	N/A	N/A	N/A
Faecal Coliforms	colony forming units per 100 mL	Weekly	1	1700	1700	1700	1700	N/A	N/A	N/A	N/A	N/A	N/A
Nitrogen (Total)	milligrams per litre	Weekly	1	9.6	9.6	9.6	9.6	N/A	N/A	N/A	N/A	N/A	N/A
Oil and Grease	milligrams per litre	Weekly	1	<2	<2	<2	<2	N/A	N/A	N/A	N/A	N/A	N/A
pH	pH	Weekly	1	7.78	7.78	7.78	7.78	N/A	N/A	N/A	N/A	N/A	N/A
Total Phosphorus-unfiltered sample	milligrams per litre	Weekly	1	3.2	3.2	3.2	3.2	N/A	N/A	N/A	N/A	N/A	N/A
Total Suspended Solids	milligrams per litre	Weekly	1	14	14	14	14	N/A	N/A	N/A	N/A	N/A	N/A

Monitoring data taken from Effluent Storage Pond for each week that discharge occurred during via Point 4. This data is from the same data set that comprises Table 1.
 * As per the note under the licence condition M2.3, it is acceptable for the licensee to take a single sample of Storage Pond water monthly to meet the monitoring requirements for Points 3, 4 and 5, provided that sample is representative of waters discharged via Points 3, 4 and 5.

EPA Id. No. 5 Site Code 5DU0016		Site Description - Discharge to Waters - Overflow from Wet Weather Storage Dam											
Pollutant	Unit of Measurement	Sampling Frequency *	No. of times measured during the month for licence reporting #	Monthly Summary 1 May 2017 to 31 May 2017									
				Minimum	Mean Value	Median Value	Maximum	3DGM Limit	3DGM Actual	100%ile Limit	100%ile Actual	Within Limits	
Biochemical Oxygen Demand	milligrams per litre	Weekly	-	-	-	-	-	N/A	N/A	N/A	N/A	N/A	N/A
Chlorophyll a	micrograms per litre	Weekly	-	-	-	-	-	N/A	N/A	N/A	N/A	N/A	N/A
Faecal Coliforms	colony forming units per 100 mL	Weekly	-	-	-	-	-	N/A	N/A	N/A	N/A	N/A	N/A
Nitrogen (Total)	milligrams per litre	Weekly	-	-	-	-	-	N/A	N/A	N/A	N/A	N/A	N/A
Oil and Grease	milligrams per litre	Weekly	-	-	-	-	-	N/A	N/A	N/A	N/A	N/A	N/A
pH	pH	Weekly	-	-	-	-	-	N/A	N/A	N/A	N/A	N/A	N/A
Total Phosphorus-unfiltered sample	milligrams per litre	Weekly	-	-	-	-	-	N/A	N/A	N/A	N/A	N/A	N/A
Total Suspended Solids	milligrams per litre	Weekly	-	-	-	-	-	N/A	N/A	N/A	N/A	N/A	N/A

No discharge occurred from Point 5 during the month.
 Monitoring data taken from Effluent Storage Pond for each week that discharge occurred during via Point 4. This data is from the same data set that comprises Table 1.
 * As per the note under the licence condition M2.3, it is acceptable for the licensee to take a single sample of Storage Pond water monthly to meet the monitoring requirements for Points 3, 4 and 5, provided that sample is representative of waters discharged via Points 3, 4 and 5.

EPA Id. No. 8 Site Code 5DU0002		Site Description - Humus Clarifier Effluent											
Pollutant	Unit of Measurement	Sampling Frequency *	No. of times measured during the month for licence reporting	Monthly Summary 1 May 2017 to 31 May 2017									
				Minimum	Mean Value	Median Value	Maximum	3DGM Limit	3DGM Actual	100%ile Limit	100%ile Actual	Within Limits	
Biochemical Oxygen Demand	milligrams per litre	Weekly	5	34	42	38	53	N/A	N/A	N/A	N/A	N/A	N/A
Chlorophyll a	micrograms per litre	Weekly	5	14.5	18.3	16.0	22.9	N/A	N/A	N/A	N/A	N/A	N/A
Faecal Coliforms	colony forming units per 100 mL	Weekly	5	190000	1158000	1100000	2800000	N/A	N/A	N/A	N/A	N/A	N/A
Nitrogen (Total)	milligrams per litre	Weekly	5	27.5	31.6	30.4	39.6	N/A	N/A	N/A	N/A	N/A	N/A
Oil and Grease	milligrams per litre	Weekly	5	<2	<2	<2	<2	N/A	N/A	N/A	N/A	N/A	N/A
pH	pH	Weekly	5	7.11	7.24	7.23	7.32	N/A	N/A	N/A	N/A	N/A	N/A
Total Phosphorus-unfiltered sample	milligrams per litre	Weekly	5	5.2	5.7	5.7	6.0	N/A	N/A	N/A	N/A	N/A	N/A
Total Suspended Solids	milligrams per litre	Weekly	5	18	47	50	86	N/A	N/A	N/A	N/A	N/A	N/A