Daily Effluent Discharge

Daily effluent analysis from 1st July to 30th September 2016 is shown in the tables below. All results were within the limits specified in waste license W0184-1.

Parameter	Volume	mean COD	COD	Temp.	pH	S.S	Ammonia
Limit	50.0	n/a	280	43	6 - 8.5	400	80
	te/day	mg/l	kg	Celsius	-	mg/l	mg/l
01-Jul-16	46.53	2430	113.1	28.66	7.08	83	63.4
02-Jul-16	No Release						
03-Jul-16	No Release						
04-Jul-16	26.89	2450	65.9	26.89	7.08	30.5	65.3
05-Jul-16	18.94	2270	43.0	29.70	7.77	117	74.2
06-Jul-16	No Release						
07-Jul-16	No Release						
08-Jul-16	36.13	2120	76.6	26.19	8.16	94	65.0
09-Jul-16	No Release						
10-Jul-16	No Release						
11-Jul-16	No Release						
12-Jul-16	29.82	2985	89.0	22.04	7.26	49	67.9
13-Jul-16	39.38	2220	87.4	29.45	7.97	41	52.1
14-Jul-16	48.35	2470	119.4	32.49	8.01	15	46.0
15-Jul-16	49.09	1590	78.1	32.57	8.17	293.5	29.7
16-Jul-16	No Release						
17-Jul-16	No Release						
18-Jul-16	No Release						
19-Jul-16	47.74	3290	157.1	39.76	7.03	52	27.3
20-Jul-16	44.42	3120	138.6	31.33	7.49	56	33.2
21-Jul-16	44.42	2840	126.2	32.31	7.52	34	38.1
22-Jul-16	47.47	2710	128.6	32.25	7.60	100	34.2
23-Jul-16	47.38	3550	168.2	34.97	7.17	90	49.0
24-Jul-16	No Release						
25-Jul-16	42.37	3180	134.7	31.66	7.11	77	51.4
26-Jul-16	45.04	3350	150.9	38.10	7.27	90	53.3
27-Jul-16	30.71	3980	122.2	37.41	7.97	20	53.6
28-Jul-16	No Release						
29-Jul-16	34.29	3830	131.3	36.12	7.96	148	65.8
30-Jul-16	No Release						
31-Jul-16	No Release						

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Parameter	Volume	mean COD	COD	Temp.	pH	S.S	Ammonia
Limit	50.0	n/a	280	43	6 - 8.5	400	80
	te/day	mg/l	kg	Celsius	-	mg/l	mg/l
01-Aug-16	43.11	3970	171.1	28.01	7.11	44	46.8
02-Aug-16	40.94	3540	144.9	41.99	7.50	141	42.2
03-Aug-16	46.31	3490	161.6	39.97	7.68	99	49.1
04-Aug-16	46.62	3400	158.5	37.28	7.79	77	39.8
05-Aug-16	43.99	3015	132.6	37.61	7.96	147.5	27.1
06-Aug-16	No Discharge						
07-Aug-16	48.09	3530	169.8	31.92	7.33	27	47.8
08-Aug-16	40.88	3710	151.7	25.21	7.25	70	50.9
09-Aug-16	48.65	3810	185.4	27.74	7.46	78	73.5
10-Aug-16	48.65	3860	187.8	21.27	7.88	75	46.4
11-Aug-16	44.18	3330	147.1	29.52	7.05	170	45.2
12-Aug-16	45.89	3090	141.8	31.17	7.28	200	31.9
13-Aug-16	46.65	2930	136.7	29.70	7.41	224	31.5
14-Aug-16	No Discharge						
15-Aug-16	43.67	3120	136.3	31.09	6.93	60	37.5
16-Aug-16	44.31	3100	137.4	37.40	7.65	84	42.4
17-Aug-16	43.27	3490	151.0	37.08	7.67	107	41.8
18-Aug-16	43.10	3120	134.5	34.18	7.41	84	42.1
19-Aug-16	No Discharge						
20-Aug-16	No Discharge						
21-Aug-16	No Discharge						
22-Aug-16	No Discharge						
23-Aug-16	8.69	3750	32.6	19.26	7.46	151	50.8
24-Aug-16	33.57	3310	111.1	34.46	7.42	101	53.8
25-Aug-16	43.95	2790	122.6	33.60	7.40	73	49.7
26-Aug-16	28.09	2200	61.8	32.10	7.85	367	19.6
27-Aug-16	No Discharge						
28-Aug-16	No Discharge						
29-Aug-16	No Discharge						
30-Aug-16	No Discharge						
31-Aug-16	37.80	2040	77.1	19.20	7.68	75	34.3

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Parameter	Volume	mean COD	COD	Temp.	pH	S.S	Ammonia
Limit	50.0	n/a	280	43	6 - 8.5	400	80
	te/day	mg/l	kg	Celsius	-	mg/l	mg/l
01-Sep-16	No Discharge						
02-Sep-16	No Discharge						
03-Sep-16	No Discharge						
04-Sep-16	No Discharge						
05-Sep-16	No Discharge						
06-Sep-16	No Discharge						
07-Sep-16	44.86	3780	169.6	27.51	7.27	81	40.2
08-Sep-16	43.82	3450	151.2	35.00	7.92	142	42.2
09-Sep-16	39.34	3300	129.8	32.34	7.71	186	30.3
10-Sep-16	No Discharge						
11-Sep-16	No Discharge						
12-Sep-16	35.11	3570	125.3	25.40	7.62	74	41.0
13-Sep-16	26.97	3240	87.4	29.89	7.56	41	35.0
14-Sep-16	32.73	3030	99.2	22.24	7.85	83	33.5
15-Sep-16	No Discharge						
16-Sep-16	No Discharge						
17-Sep-16	No Discharge						
18-Sep-16	No Discharge						
19-Sep-16	No Discharge						
20-Sep-16	43.00	2910	125.1	21.00	8.08	220	36.1
21-Sep-16	25.13	1920	48.2	20.25	8.00	48	42.6
22-Sep-16	No Discharge						
23-Sep-16	35.24	2905	102.4	33.12	7.31	184	34.9
24-Sep-16	33.41	3280	109.6	32.07	7.14	77	42.7
25-Sep-16	No Discharge						
26-Sep-16	No Discharge						
27-Sep-16	40.88	3620	148.0	33.87	6.74	86	48.2
28-Sep-16	40.88	3830	156.6	30.75	7.09	67	46.0
29-Sep-16	41.33	2530	104.6	28.95	7.48	52.1	66.0
30-Sep-16	No Discharge						

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Weekly Effluent Discharge

Weekly effluent discharge analysis for the third quarter of 2016 can be seen in the table below. All reported results were within the specifications set out in the licence.

Parameter	FOG's	Chlorides	Phenols	Sulphates	Total Phosphorus	Copper	Lead	Zinc	Cadmium	Ammonia	COD
Limit	**100**	**6000**	**50**	**1000**	**150**	**1**	**0.5**	**1.000**	**0.15**	-	-
Date	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
06/07/2016	3.08	4280	10.1	456.2	114	<0.007	<0.005	<0.003	<0.0005	61.0	2310
13/07/2016	0.43	3290	11.4	290	59	<0.007	<0.005	0.384	<0.0005	74.8	2680
20/07/2016	<10	940	11.7	84	74	<0.007	<0.005	0.159	<0.0005	41.1	2190
27/07/2016	2.40	3150	13.0	86.6	64	<0.007	<0.005	0.037	<0.0005	40.5	3110
03/08/2016	4.88	2390	16.2	3.77	66	<0.007	<0.005	0.015	<0.0005	50.7	3310
10/08/2016	7.95	2750	9.7	169	76	<0.007	<0.005	0.017	<0.0005	49.8	3380
17/08/2016	7.54	2460	15.8	80	92	<0.007	<0.005	0.010	<0.0005	38.0	3140
24/08/2016	5.63	2510	15.5	29.7	86	<0.007	<0.005	0.015	<0.0005	41.5	3040
30/08/2016	0.33	2230	12.5	116.1	83	<0.007	<0.005	0.012	<0.0005	41.8	2820
07/09/2016	2.27	4970	8.8	130	78	<0.007	<0.005	0.008	<0.0005	34.3	2040
14/09/2016	4.82	1680	10.2	176.3	91	<0.007	<0.005	0.034	<0.0005	35.0	3200
21/09/2016	<10	1660	6.9	94.5	66	<0.007	<0.005	0.058	<0.0005	35.9	2830
28/09/2016	5.56	1940	11.2	90	70	<0.007	<0.005	0.031	<0.0005	37.7	3460

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Quarterly Effluent Metal Screen

The metal screen for Q3 2016 is shown in the table below.

	Detection Method		ICP OES	ICP OES	ICP OES	ICP OES	ICP OES	ICP OES	ICP OES	ICP OES	ICP OES	ICP OES	ICP OES
	Method Detection Limit		<0.2	<0.1	<0.5	<1.5	<7	<20	<2	<2	<3	<1	<5
	ISO 17025 Accredited		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Jones Environmental Reference No	Sample Identity	Other ID	Dissolved Calcium	Dissolved Magnesium	Dissolved Cadmium	Dissolved Chromium	Dissolved Copper	Total Dissolved Iron	Dissolved Manganese	Dissolved Nickel	Dissolved Zinc	Dissolved Mercury	Dissolved Lead
			mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
16/11466	Weekly Effluent	PO 2892	383.1	289.2	<0.5	9.7	<7	535	431	41	<3	<1	<5

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