

**Wastewater Monitoring Data October 2017**

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Licensee: Cargill Newcastle

EPL no.: 5810

**Qualifications related to limits**

Samples taken as per approved methods.

EPA Point ID	Sampling Date	Date Results Received	Pollutant	Measurement Period and Monitoring Frequency Required by Licence	Units	Value 4 October 2017	Value 16 October 2017	2017 Values to date		
								Min Value	Mean Value	Max Value
12	4/10/2017	24/10/2017	pH	Quarterly	pH Unit	9.36	-	8.13	8.71	9.36
			Sodium Adsorption Ratio	Quarterly	-	9.70	-	5.50	9.31	12.60
			Electrical Conductivity	Quarterly	µS/cm	982	-	692	965	1,200
			Chloride	Quarterly	mg/L	143	-	47	95	143
			Total Nitrogen	Quarterly	mg/L	15.1	-	12.8	21.1	39.6
			Total Phosphorus	Quarterly	mg/L	0.30	-	0.30	1.02	2.54
			Oil and Grease	Quarterly	mg/L	<5	-	<5	23	52
			Calcium	Quarterly	mg/L	12	-	11	12	13
			Magnesium	Quarterly	mg/L	4	-	4	5	7
			Sodium	Quarterly	mg/L	152	-	99	149	192
			Potassium	Quarterly	mg/L	15	-	10	15	21
			Arsenic	Annually	mg/L	0.002	-	0.002	0.002	0.002
			Cadmium	Annually	mg/L	0.0002	-	0.0002	0.0002	0.0002
			Chromium	Annually	mg/L	0.017	-	0.017	0.017	0.017
			Copper	Annually	mg/L	0.005	-	0.005	0.005	0.005
			Lead	Annually	mg/L	<0.001	-	<0.001	<0.001	<0.001
			Nickel	Annually	mg/L	0.034	-	0.034	0.034	0.034
			Zinc	Annually	mg/L	0.016	-	0.016	0.016	0.016
			Organochlorine Pesticides	Annually	mg/L	<0.5	-	<0.5	<0.5	<0.5
			Organophosphate Pesticides	Annually	mg/L	<0.5	-	<0.5	<0.5	<0.5
13	4/10/2017 & 16/10/2017	24/10/2017	pH	Quarterly	pH Unit	7.54	7.41	3.02	6.53	7.54
			Sodium Adsorption Ratio	Quarterly	-	3.22	3.07	1.48	2.68	3.22
			Electrical Conductivity	Quarterly	µS/cm	859	749	749	995	1,420
			Chloride	Quarterly	mg/L	60	66	60	110	228
			Total Nitrogen	Quarterly	mg/L	70.8	67.3	51.2	70.0	91.7
			Total Phosphorus	Quarterly	mg/L	11.7	6.69	6.69	8.93	11.7
			Oil and Grease	Quarterly	mg/L	7	<5	<5	6	12
			Enterococci	Quarterly	CFU/ 100mL	1,300	<2	<2	295	1,300
			Faecal Coliforms	Quarterly	CFU/ 100mL	14,000,000	~3	<2	2,800,135	14,000,000
			Calcium	Quarterly	mg/L	11	9	9	22	57
			Magnesium	Quarterly	mg/L	4	4	4	7	10
			Sodium	Quarterly	mg/L	49	44	44	50	57
			Potassium	Quarterly	mg/L	22	20	20	24	26
			Arsenic	Annually	mg/L	<0.001	-	<0.001	<0.001	<0.001
			Cadmium	Annually	mg/L	0.0001	-	0.0001	0.0001	0.0001
			Chromium	Annually	mg/L	0.007	-	0.007	0.007	0.007
			Copper	Annually	mg/L	0.036	-	0.036	0.036	0.036
			Lead	Annually	mg/L	0.002	-	0.002	0.002	0.002
			Nickel	Annually	mg/L	0.009	-	0.009	0.009	0.009
			Zinc	Annually	mg/L	0.235	-	0.235	0.235	0.235

\*N/D: Not Detected