

## Wastewater Monitoring Data July 2013

Published: (CARGILL TO INSERT WEB PUBLICATION DATE)									
Licensee: Cargill Newcastle									
EPL no.: 1510									
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 July 2013	2013 Values to date		
							Min Value	Mean Value	Max Value
12	04/07/2013	12/07/2013	pH	Quarterly	pH Unit	7.62	7.62	7.64	7.67
			Sodium Adsorption Ratio	Quarterly	-	9.01	8.81	9.14	9.59
			Electrical Conductivity	Quarterly	µS/cm	1,600	1,270	1,383	1,600
			Chloride	Quarterly	mg/L	318	199	244	318
			Total Nitrogen	Quarterly	mg/L	65.2	18.2	37.2	65.2
			Total Phosphorus	Quarterly	mg/L	1.20	0.58	1.27	2.04
			Oil and Grease	Quarterly	mg/L	11	7	9	11
			Calcium	Quarterly	mg/L	31	23	27	31
			Magnesium	Quarterly	mg/L	13	9	11	13
			Sodium	Quarterly	mg/L	237	207	221	237
			Potassium	Quarterly	mg/L	9	9	18	31
			Arsenic	Annually	mg/L	-	0.006	0.006	0.006
			Cadmium	Annually	mg/L	-	<0.0001	<0.0001	<0.0001
			Chromium	Annually	mg/L	-	0.003	0.003	0.003
			Copper	Annually	mg/L	-	0.005	0.005	0.005
			Lead	Annually	mg/L	-	<0.001	<0.001	<0.001
			Nickel	Annually	mg/L	-	0.004	0.004	0.004
			Zinc	Annually	mg/L	-	0.116	0.116	0.116
			Organochlorine Pesticides	Annually	mg/L	-	<2.4	<3.6	<4.7
			Organophosphate Pesticides	Annually	mg/L	-	<2.4	<3.6	<4.7
13	03/07/2013	12/07/2013	pH	Quarterly	pH Unit	7.90	7.70	7.83	7.90
			Sodium Adsorption Ratio	Quarterly	-	3.12	1.98	2.40	3.12
			Electrical Conductivity	Quarterly	µS/cm	1,220	741	930	1,220
			Chloride	Quarterly	mg/L	77	62	67	77
			Total Kjeldahl Nitrogen	Quarterly	mg/L	161	54	92	161
			Total Nitrogen	Quarterly	mg/L	161	54	92	161
			Total Phosphorus	Quarterly	mg/L	24.3	7.5	16.7	24.3
			Oil and Grease	Quarterly	mg/L	59	5	24	59
			Enterococci	Quarterly	CFU/100mL	140,000	20,000	60,667	140,000
			Faecal Coliforms	Quarterly	CFU/100mL	~330,000	~110,000	~223,333	~330,000
			Calcium	Quarterly	mg/L	12	12	16	19
			Magnesium	Quarterly	mg/L	6	6	7	8
			Sodium	Quarterly	mg/L	53	38	45	53
			Potassium	Quarterly	mg/L	82	24	45	82
			Arsenic	Annually	mg/L	-	<0.001	<0.001	<0.001
			Cadmium	Annually	mg/L	-	<0.0001	<0.0001	<0.0001

			Chromium	Annually	mg/L	-	0.007	0.007	0.007
			Copper	Annually	mg/L	-	0.142	0.142	0.142
			Lead	Annually	mg/L	-	0.007	0.007	0.007
			Nickel	Annually	mg/L	-	0.023	0.023	0.023
			Zinc	Annually	mg/L	-	1.10	1.10	1.10

\*N/D: Not Detected