

Groundwater 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 03/07/13	2013 Values to date		
							Min Value	Mean Value	Max Value
6	03/07/2013	12/07/2013	pH	Every 6 months	pH	7.45	7.45	7.69	7.93
			Conductivity	Every 6 months	µS/cm	794	794	1,612	2,430
			Total Dissolved Solids	Every 6 months	mg/L	424	424	897	1,370
			Total Kjeldahl Nitrogen	Every 6 months	mg/L	4.4	2.5	3.5	4.4
			Phosphorus (total)	Every 6 months	mg/L	0.91	0.91	1.13	1.34
			Sulphate	Every 6 months	mg/L	16	15	16	16
			Calcium	Every 6 months	mg/L	58	58	58	58
			Magnesium	Every 6 months	mg/L	13	13	23	33
			Nitrate	Every 6 months	mg/L	<0.01	<0.01	0.04	0.07
			Nitrogen (total)	Every 6 months	mg/L	4.4	2.6	3.5	4.4
			Sodium	Every 6 months	mg/L	82	82	258	434
			Standing Water Level	Every 6 months	m	0	0	0.58	1.15
7	03/07/2013	12/07/2013	pH	Every 6 months	pH	7.44	7.44	7.78	8.12
			Conductivity	Every 6 months	µS/cm	1,860	1,320	1,590	1,860
			Total Dissolved Solids	Every 6 months	mg/L	1,040	830	935	1,040
			Total Kjeldahl Nitrogen	Every 6 months	mg/L	2.8	1.8	2.3	2.8
			Phosphorus (total)	Every 6 months	mg/L	0.9	0.33	0.62	0.9
			Sulphate	Every 6 months	mg/L	14	14	18	22
			Calcium	Every 6 months	mg/L	166	74	120	166
			Magnesium	Every 6 months	mg/L	16	9	13	16
			Nitrate	Every 6 months	mg/L	1.73	0.5	1.12	1.73
			Nitrogen (total)	Every 6 months	mg/L	4.5	2.3	3.4	4.5
			Sodium	Every 6 months	mg/L	259	223	241	259
			Standing Water Level	Every 6 months	m	0	0	0	0

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							Min Value	Mean Value	Max Value
8	03/07/2013	12/07/2013	pH	Every 6 months	pH	7.65	7.65	7.80	7.94
			Conductivity	Every 6 months	µS/cm	2,910	2,910	3,160	3,410
			Total Dissolved Solids	Every 6 months	mg/L	1,600	1,600	1,785	1,970
			Total Kjeldahl Nitrogen	Every 6 months	mg/L	3.6	3.6	4.2	4.8
			Phosphorus (total)	Every 6 months	mg/L	2.07	2.05	2.06	2.07
			Sulphate	Every 6 months	mg/L	168	168	189	210

			Calcium	Every 6 months	mg/L	80	80	89	98
			Magnesium	Every 6 months	mg/L	54	54	55	56
			Nitrate	Every 6 months	mg/L	<0.01	<0.01	0.01	0.01
			Nitrogen (total)	Every 6 months	mg/L	3.6	3.6	4.2	4.8
			Sodium	Every 6 months	mg/L	538	538	576	614
			Standing Water Level	Every 6 months	m	3.1	1.85	2.48	3.1
9	03/07/2013	12/07/2013	pH	Every 6 months	pH	7.01	7.01	7.46	7.9
			Conductivity	Every 6 months	µS/cm	2,010	2,010	2,225	2,440
			Total Dissolved Solids	Every 6 months	mg/L	1,180	1,180	1,315	1,450
			Total Kjeldahl Nitrogen	Every 6 months	mg/L	0.6	0.6	1.5	2.3
			Phosphorus (total)	Every 6 months	mg/L	0.09	0.09	0.66	1.23
			Sulphate	Every 6 months	mg/L	362	22	192	362
			Calcium	Every 6 months	mg/L	173	83	128	173
			Magnesium	Every 6 months	mg/L	46	31	39	46
			Nitrate	Every 6 months	mg/L	0.34	0.02	0.18	0.34
			Nitrogen (total)	Every 6 months	mg/L	0.9	0.9	1.6	2.3
			Sodium	Every 6 months	mg/L	240	240	345	449
			Standing Water Level	Every 6 months	m	0.6	0.6	1.98	3.35