

## Groundwater Monitoring Data January 2013

Published: 14 February 2013  
 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 16/01/13	2013 Values to date		
							Min Value	Mean Value	Max Value
6	16/01/13	06/02/13	pH	Every 6 months	pH	7.93	7.93	7.93	7.93
			Calcium	Every 6 months	mg/L	58	58	58	58
			Conductivity	Every 6 months	µS/cm	2,430	2,430	2,430	2,430
			Magnesium	Every 6 months	mg/L	33	33	33	33
			Nitrate	Every 6 months	mg/L	0.07	0.07	0.07	0.07
			Nitrogen (total)	Every 6 months	mg/L	2.6	2.6	2.6	2.6
			Total Kjeldahl Nitrogen	Every 6 months	mg/L	2.5	2.5	2.5	2.5
			Phosphorus (total)	Every 6 months	mg/L	1.34	1.34	1.34	1.34
			Sodium	Every 6 months	mg/L	434	434	434	434
			Sulfate	Every 6 months	mg/L	15	15	15	15
			Total Dissolved Solids	Every 6 months	mg/L	1,370	1,370	1,370	1,370
			Standing Water Level	Every 6 months	m	1.15	1.15	1.15	1.15
7			pH	Every 6 months	pH	8.12	8.12	8.12	8.12
			Calcium	Every 6 months	mg/L	74	74	74	74
			Conductivity	Every 6 months	µS/cm	1,320	1,320	1,320	1,320
			Magnesium	Every 6 months	mg/L	9	9	9	9
			Nitrate	Every 6 months	mg/L	0.5	0.5	0.5	0.5
			Nitrogen (total)	Every 6 months	mg/L	2.3	2.3	2.3	2.3
			Total Kjeldahl Nitrogen	Every 6 months	mg/L	1.8	1.8	1.8	1.8
			Phosphorus (total)	Every 6 months	mg/L	0.33	0.33	0.33	0.33
			Sodium	Every 6 months	mg/L	223	223	223	223
			Sulfate	Every 6 months	mg/L	22	22	22	22
			Total Dissolved Solids	Every 6 months	mg/L	830	830	830	830
			Standing Water Level	Every 6 months	m	0	0	0	0

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							Min Value	Mean Value	Max Value
8	16/01/13	06/02/13	pH	Every 6 months	pH	7.94	7.94	7.94	7.94
			Calcium	Every 6 months	mg/L	98	98	98	98
			Conductivity	Every 6 months	µS/cm	3,410	3,410	3,410	3,410
			Magnesium	Every 6 months	mg/L	56	56	56	56
			Nitrate	Every 6 months	mg/L	0.01	0.01	0.01	0.01
			Nitrogen (total)	Every 6 months	mg/L	4.8	4.8	4.8	4.8
			Total Kjeldahl Nitrogen	Every 6 months	mg/L	4.8	4.8	4.8	4.8
			Phosphorus (total)	Every 6 months	mg/L	2.05	2.05	2.05	2.05
			Sodium	Every 6 months	mg/L	614	614	614	614
			Sulfate	Every 6 months	mg/L	210	210	210	210
			Total Dissolved Solids	Every 6 months	mg/L	1,970	1,970	1,970	1,970
			Standing Water Level	Every 6 months	m	1.85	1.85	1.85	1.85
9	16/01/13	06/02/13	pH	Every 6 months	pH	7.9	7.9	7.9	7.9
			Calcium	Every 6 months	mg/L	83	83	83	83
			Conductivity	Every 6 months	µS/cm	2,440	2,440	2,440	2,440
			Magnesium	Every 6 months	mg/L	31	31	31	31
			Nitrate	Every 6 months	mg/L	0.02	0.02	0.02	0.02
			Nitrogen (total)	Every 6 months	mg/L	2.3	2.3	2.3	2.3
			Total Kjeldahl Nitrogen	Every 6 months	mg/L	2.3	2.3	2.3	2.3
			Phosphorus (total)	Every 6 months	mg/L	1.23	1.23	1.23	1.23
			Sodium	Every 6 months	mg/L	449	449	449	449
			Sulfate	Every 6 months	mg/L	22	22	22	22
			Total Dissolved Solids	Every 6 months	mg/L	1,450	1,450	1,450	1,450
			Standing Water Level	Every 6 months	m	3.35	3.35	3.35	3.35