

The logo consists of the text "Energy in action.™" in a blue sans-serif font, positioned within a large, light brown rounded rectangle. Below this rectangle are three smaller, overlapping light brown shapes: a small square on the left, a larger rectangle in the middle, and a small square on the right. At the bottom right of these shapes is the AGL logo, which features a blue square with a white sunburst icon and the letters "AGL" in white.

AGL UPSTREAM INVESTMENTS PTY LTD

GLOUCESTER GAS PROJECT

**March 2015 Monitoring Report:
Tiedman Irrigation Program
EPL 20358**

Reporting Period: January - February 2015

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Foreword

PREMISES	Gloucester Coal Seam Gas Project Bucketts Way Gloucester NSW 2422
LICENCE DETAILS	<u>Environment Protection Licence 20358</u>
LICENCEE	AGL Upstream Investments Pty Limited (AGL)
LICENCEE'S ADDRESS	Locked Bag 1837, North Sydney, NSW 2060
MONITORING DATE	28 January and 24, 25, 26 February 2015
MONITORING BY	Parsons Brinckerhoff, on behalf of AGL
ANALYSIS BY	ALS Laboratory, Smithfield (Work orders: ES1501994, ES1504524, ES1504527)
DATE AGL OBTAINED DATA	6 and 19 March 2015
REPORT DATE	26 March 2015
REPORT PREPARED BY	James Duggleby, Senior Hydrogeologist

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Introduction

AGL is proposing to build the Gloucester Gas Project (GGP) which comprises several stages of development facilitating the extraction of coal seam gas (CSG) from the Gloucester Basin. Concept plan and project approval (Part 3A Approval) for the Stage 1 Gas Field Development Area (GFDA) was granted on 22 February 2011 under Part 3A of the Environmental Planning and Assessment Act (1979) (EP&A Act). In addition the project received approval under the Environment Protection and Biodiversity Conservation Act (1999) (EPBC Act) (EPBC Approval) on 11 February 2013.

The GGP will involve depressurising of deep groundwater and the extraction of gas from multiple coal seams within the Gloucester coal measures. Target coal seam depths will vary from site to site but are expected to range between 200 and 1,000 m below ground level (mbgl). The current GGP includes the construction, operation, and decommissioning of not more than 110 coal seam gas wells and associated infrastructure, including gas and water gathering lines within the Stage 1 GFDA. A comprehensive groundwater investigation (Phase 2 Groundwater Investigations) was completed in early 2012 to confirm the hydrogeological conceptual model across the Stage 1 GFDA (PB, 2012). Surface water and groundwater investigations are ongoing.

This Monitoring Report relates to the water monitoring activities specified in Part 5, Monitoring and Recording Conditions, of the Environment Protection Licence 20358. This report relates specifically to the monitoring surrounding the Tiedman Irrigation Program, and details:

1. Monitoring results from the quarterly water sampling event at the Tiedman Irrigation Program (24, 25, 26 February 2015); and
2. Monitoring results from a high rainfall overflow event at the Tiedman Irrigation Program catch dam west (28 January 2015).

As per the licence, the monitoring encompasses the monitoring points at locations as shown in Table 1 and Figure 1. The specific analytes and frequency tested are shown in Table 2. The monitoring results for this reporting period are shown in Table 3, Table 4, and Table 5.

The monitoring points that are the subject of this report are part of the GGP groundwater monitoring network, as described in AGL's Water Management Plan for the Tiedman Irrigation Program (AGL, 2012a) and Soil Quality Monitoring and Management Program (AGL, 2012b)). Water monitoring results for the Irrigation program are presented in a baseline water monitoring report (PB, 2013a) and six-monthly compliance reports (PB, 2013a, 2013b, 2014a, 2014b, 2015).

Four sampling methods were used to obtain surface water and groundwater samples:

- Submersible 12V pump at the groundwater monitoring bores screened within relatively permeable geological materials: TMB01, TMB02 and TMB03. A minimum of three well volumes was purged prior to sampling.
- Submersible 12V pump at the seepage monitoring bores TMB04 and TMB05 which are screened within material of very low permeability. The physical parameters of the purged groundwater were initially tested, then the bores were purged dry and if any inflow was observed within 12 hours then physical parameters were tested again and a sample taken for analysis.
- Disposable bailer at the shallow perched soil water piezometers (SP1B, SP2B, SP4B, SP6B, SP7B, SP8B, SP9B, SP10B) (with piezometers purged dry and if any inflow was observed within 12 hours then physical parameters were tested again and a sample taken for analysis).
- In-situ snap sampler for groundwater monitoring bore S4MB01, screened within material of relatively low permeability.
- A micro-purge low flow sampling pump for groundwater monitoring bores TCMB01 and TTMB02.
- Grab sample using a telescopic sampler for surface water and dam water samples (TND, TSD, TED, CDE, CDW, TSW01, TSW02, ASW01, FSW01).

EC and pH were monitored during purging to ensure that they had stabilised prior to sample collection. The water quality samples are analysed by an external NATA certified laboratory (ALS Environmental, Smithfield), in accordance with the EPA Approved Methods Publication "*Approved Methods for the Sampling and Analysis of Water Pollutants in New South Wales*" (EPA, 2004), with the exception of calcium, which underwent filtration rather than acid extraction as a preliminary treatment prior to analysis.

This report is prepared in accordance with the *Requirements for Publishing Pollution Monitoring Data* (EPA, 2012) (Publication Requirements).

The remaining water and land monitoring points in EPL 20358 will be reported in subsequent reports when the requirement for monitoring is triggered.

More information on the groundwater monitoring of the GGP is available on the project website:
agl.com.au/Gloucester



Table 1: Water quality monitoring points: Irrigation Program (as per EPL 20358)

EPA ID no.	Monitoring Point	Type of monitoring point	Easting (m)	Northing (m)
27	TND	Produced water storage dam	Tiedman property	
28	TSD	Produced water storage dam	Tiedman property	
29	TED	Produced water storage dam	Tiedman property	
30	TMB04	Groundwater quality monitoring – seepage monitoring bore	402558.1	6448921.7
31	TMB05	Groundwater quality monitoring – seepage monitoring bore	402650.1	6448725.3
33	CDE	Surface water quality monitoring – catch dam east	Tiedman property	
34	CDW	Surface water quality monitoring – catch dam west	Tiedman property	
35	FSW01	Surface water quality monitoring	402001	6449646
36	ASW01	Surface water quality monitoring	401711.09	6449092.2
37	TSW01	Surface water quality monitoring	401993.98	6449416.7
38	TSW02	Surface water quality monitoring	401922.1	6448740.9
39	TMB01	Groundwater quality monitoring	401996.98	6449419.7
40	TMB02	Groundwater quality monitoring	401905.11	6449100.6
41	TMB03	Groundwater quality monitoring	401969.53	6448755
42	S4MB01	Groundwater quality monitoring	402581.88	6449409.7
43	TCMB01	Groundwater quality monitoring	402501.7	6448899
44	TTMB02	Groundwater quality monitoring	402699	6449358
45	SP1B	Soil water quality monitoring	402570.3	6449381.3
46	SP2B	Soil water quality monitoring	402444.2	6449100.1
47	SP4B	Soil water quality monitoring	402252	6449131.3
48	SP6B	Soil water quality monitoring	402103.5	6449178.6
49	SP7B	Soil water quality monitoring	402144.8	6449292.1
50	SP8B	Soil water quality monitoring	402159.1	6449454.8
51	SP9B	Soil water quality monitoring	402387.5	6449016.9
52	SP10B	Soil water quality monitoring	402344.2	6448840.6

Coordinate reference system: Map Grid of Australia 1994

Figure 1: Location of groundwater and surface water quality monitoring points: Irrigation Program (as per EPL 20358)

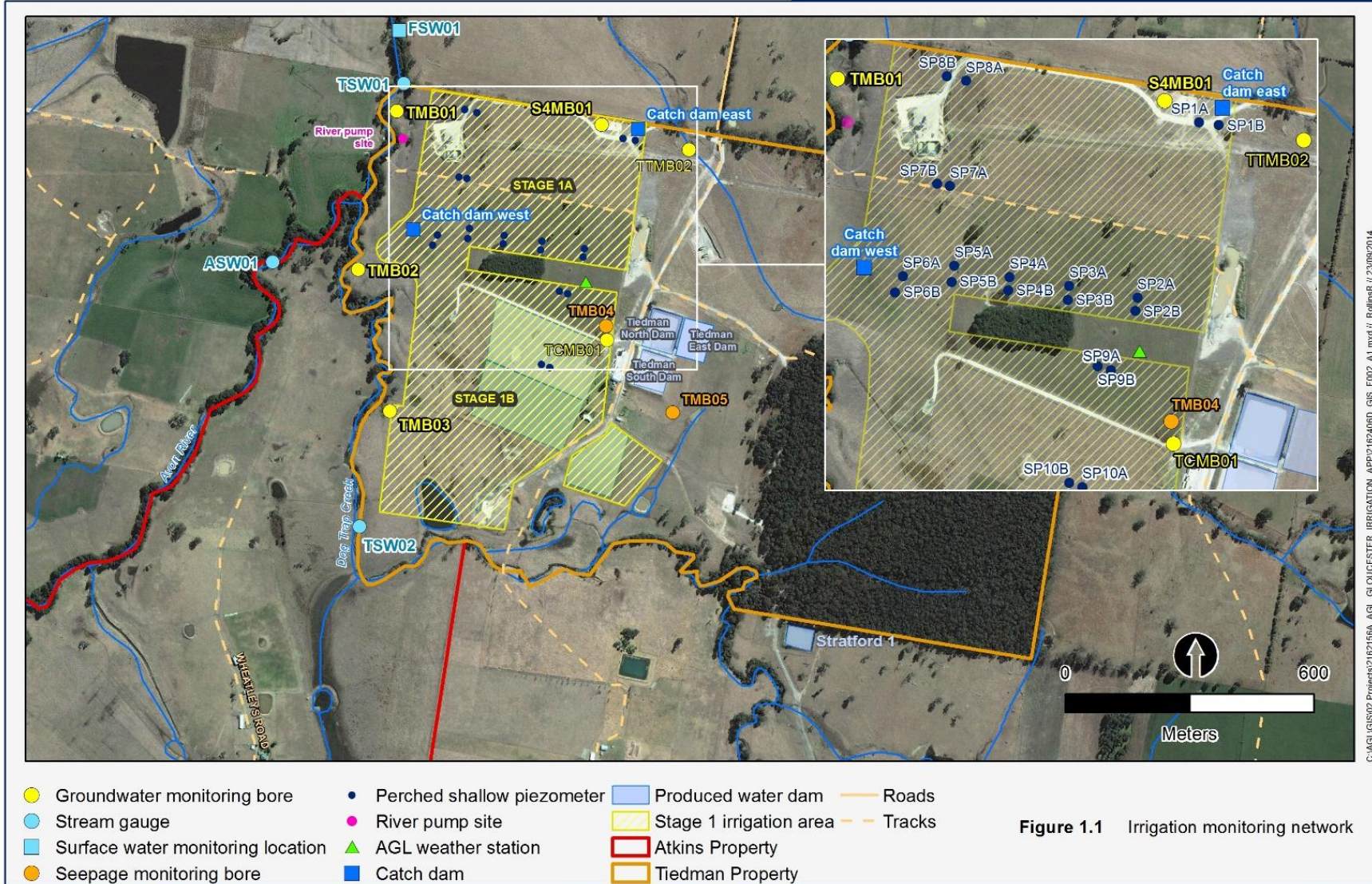


Figure 1.1 Irrigation monitoring network

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Groundwater and surface water monitoring results

Table 3: January - February 2015 water monitoring results for monitoring points 27 – 39

Analyte	Units of measure	Limit of reporting	Monitoring points													
			Location	27	28	29	30	31	34	35	36	37	38	39	40	41
			TND	TSD	TED	TMB04	TMB05	CDW	FSW01	ASW01	TSW01	TSW02 ^a	TMB01	TMB02	TMB03	
			Sampled date	25/02/2015	25/02/2015	25/02/2015	25/02/2015	25/02/2015	28/01/2015 ^b	25/02/2015	25/02/2015	25/02/2015	25/02/2015	25/02/2015	25/02/2015	25/02/2015
Date AGL obtained data	6/03/2015	6/03/2015	6/03/2015	6/03/2015	6/03/2015	6/03/2015	6/03/2015	6/03/2015	6/03/2015	6/03/2015	6/03/2015	6/03/2015	6/03/2015			
Aluminium	mg/L	0.01	0.11	0.11	0.04	0.05	0.61	0.12	0.06	0.06	0.02	na	<0.01	<0.01	0.02	
Ammonia	mg/L	0.01	0.15	0.03	0.05	0.14	0.38	0.03	0.02	0.03	0.03	na	0.17	0.38	0.16	
Arsenic	mg/L	0.001	0.003	0.004	0.002	<0.001	<0.001	<0.001	0.002	0.001	0.001	na	0.001	0.003	0.003	
Barium	mg/L	0.001	0.046	0.092	0.11	0.059	0.211	0.029	0.037	0.052	0.051	na	0.220	0.829	0.194	
Beryllium	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	0.005	<0.001	<0.001	<0.001	<0.001	na	<0.001	<0.001	<0.001	
Bicarbonate	mg/L	1	73	284	115	108	6									
Boron	mg/L	0.05	0.08	0.19	0.09	<0.05	<0.05	0.06	<0.05	<0.05	<0.05	na	<0.05	<0.05	<0.05	
Cadmium	mg/L	0.0001	<0.0001	<0.0001	<0.0001	0.0006	0.0017	<0.0001	<0.0001	<0.0001	<0.0001	na	<0.0001	<0.0001	<0.0001	
Calcium	mg/L	1	10	9	8	87	60	13	13	16	16	na	238	156	233	
Chloride	mg/L	0.1	97.3	287.0	74.0	2100.0	2470.0									
Chromium	mg/L	0.001						<0.001	<0.001	<0.001	<0.001	na	<0.001	<0.001	<0.001	
Cobalt	mg/L	0.001	<0.001	<0.001	0.001	0.087	0.274	<0.001	<0.001	<0.001	<0.001	na	<0.001	0.002	0.004	
Copper	mg/L	0.001	0.002	0.002	0.002	0.009	0.05	0.006	<0.001	<0.001	<0.001	na	<0.001	<0.001	<0.001	
Dissolved oxygen ^c	mg/L	0.01	5.37	4.92	8.06	4.02	6.22	5.71	4.38	3.41	2.6	na	3.27	3.35	3.07	
Electrical conductivity	µS/cm	1	643	1800	590	7140	7460	411	297	351	335	na	8350	3740	5820	
Iron	mg/L	0.05	0.15	0.10	0.09	6.85	15.00	0.24	0.43	1.22	0.77	na	2.43	6.47	2.31	
Lead	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	na	<0.001	<0.001	<0.001	
Magnesium	mg/L	1	4	4	4	226	248	5	8	9	9	na	238	93	144	
Manganese	mg/L	0.001	0.014	0.007	0.080	9.540	18.500	0.004	0.018	0.083	0.169	na	0.907	1.030	1.420	
Mercury	mg/L	0.0001						<0.0001	<0.0001	<0.0001	<0.0001	na	<0.0001	<0.0001	<0.0001	
Molybdenum	mg/L	0.001	0.004	0.008	0.001	<0.001	<0.001	0.002	<0.001	<0.001	<0.001	na	<0.001	<0.001	<0.001	
Nickel	mg/L	0.001	0.001	0.001	<0.001	0.042	0.131	0.002	<0.001	<0.001	<0.001	na	<0.001	<0.001	<0.001	
Nitrate	mg/L	0.01	<0.01	<0.01	<0.01	0.08	0.07	0.15	<0.01	0.01	<0.01	na	<0.01	<0.01	<0.01	
Nitrite	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01								
pH ^d	pH	0.01	9.48	9.43	9.20	6.88	6.93	7.46	7.20	7.18	7.54	na	6.48	6.33	6.54	
Phosphorus (total)	mg/L	0.01	0.29	0.47	0.22	0.08	0.09	1.86	0.06	0.04	0.08	na	0.05	0.06	0.03	
Potassium	mg/L	1	34	83	19	21	17	18	4	4	4	na	3	4	2	
Reactive Phosphorus	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01									
Redox potential ^e	mV	0.1	-41.3	-18.3	-27.5	-31.5	33.4	12.5	71.1	44.1	-18.1	na	-32.6	-30.6	-39.7	
Selenium	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	na	<0.01	<0.01	<0.01	
Silica	mg/L	0.1						16.9	17.9	17.5	18.3	na	35.9	33.6	30.5	
Sodium	mg/L	1	102	318	106	1100	1040	48	31	37	34	na	1210	454	802	
Sodium Adsorption Ratio	ratio	0.01		22.20												
Standing water level	m AHD	0.01				113.23 ^d	119.15 ^d						102.79	102.59	103.36	
Strontium (dissolved)	mg/L	0.001	0.122	0.161	0.182	0.866	0.897	0.065	0.166	0.213	0.205	na	6.020	3.510	5.380	
Sulfate	mg/L	1	15	19	4	573	238	28	4	3	2	na	90	20	207	
Total alkalinity	mg/L	1						102	54	65	64	na	582	160	518	
Total dissolved solids	mg/L	10	418	942	326	4720	4940	395	182	185	162	na	4450	2150	3140	
Total organic carbon	mg/L	1	25	25	21	<1	2									
Total suspended solids	mg/L	5						15	<5	<5	<5	na				
Uranium	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	na	0.003	<0.001	0.007	
Vanadium	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	na	<0.01	<0.01	<0.01	
Zinc	mg/L	0.005	0.012	0.008	0.012	0.249	0.926	0.018	0.029	0.010	0.018	na	0.014	0.01	0.015	

Shaded grey = not required to be analysed

^a Stream location dry at the time of sampling

^b Overflow event

^c measured with calibrated field meter

^d Standing water level measured on 24/02/15

na - not analysed as no sample collected



Groundwater and surface water monitoring results

Table 4: February 2015 water monitoring results for monitoring points 40 - 52

		Monitoring points											
		42	43	44	45	46	47	48	49	50	51	52	
		Location	S4MB01	TCMB01	TTMB02	SP1B ^a	SP2B ^a	SP4B ^a	SP6B ^a	SP7B ^a	SP8B ^a	SP9B ^a	SP10B ^a
		Sampled date	25/02/2015	26/02/2015	26/02/2015	24/02/2015	24/02/2015	24/02/2015	24/02/2015	24/02/2015	24/02/2015	24/02/2015	24/02/2015
Analyte	Units of measure	Date AGL obtained data	6/03/2015	6/03/2015	6/03/2015	6/03/2015	6/03/2015	6/03/2015	6/03/2015	6/03/2015	6/03/2015	6/03/2015	6/03/2015
		Limit of reporting											
Aluminium	mg/L	0.01	<0.01	<0.01	<0.01	na	na	na	na	na	na	na	na
Ammonia	mg/L	0.01	1.85	1.39	0.62	na	na	na	na	na	na	na	na
Arsenic	mg/L	0.001	0.001	<0.001	<0.001	na	na	na	na	na	na	na	na
Barium	mg/L	0.001	6.550	8.190	0.722	na	na	na	na	na	na	na	na
Beryllium	mg/L	0.001	<0.001	<0.001	<0.001	na	na	na	na	na	na	na	na
Bicarbonate	mg/L	1											
Boron	mg/L	0.05	0.17	<0.05	<0.05	na	na	na	na	na	na	na	na
Cadmium	mg/L	0.0001	<0.0001	<0.0001	<0.0001	na	na	na	na	na	na	na	na
Calcium	mg/L	1	217	226	163	na	na	na	na	na	na	na	na
Chloride	mg/L	0.1											
Chromium	mg/L	0.001	<0.001	<0.001	<0.001	na	na	na	na	na	na	na	na
Cobalt	mg/L	0.001	<0.001	<0.001	<0.001	na	na	na	na	na	na	na	na
Copper	mg/L	0.001	<0.001	<0.001	<0.001	na	na	na	na	na	na	na	na
Dissolved oxygen ^b	mg/L	0.01	2.06	0.94	1.01	na	na	na	na	na	na	na	na
Electrical conductivity	µS/cm	1	4840	3040	2350	na	na	na	na	na	na	na	na
Iron	mg/L	0.05	1.14	1.3	2.18	na	na	na	na	na	na	na	na
Lead	mg/L	0.001	<0.001	<0.001	<0.001	na	na	na	na	na	na	na	na
Magnesium	mg/L	1	66	74	53	na	na	na	na	na	na	na	na
Manganese	mg/L	0.001	0.171	0.029	0.099	na	na	na	na	na	na	na	na
Mercury	mg/L	0.0001	<0.0001	<0.0001	<0.0001	na	na	na	na	na	na	na	na
Molybdenum	mg/L	0.001	<0.001	<0.001	<0.001	na	na	na	na	na	na	na	na
Nickel	mg/L	0.001	0.001	<0.001	0.001	na	na	na	na	na	na	na	na
Nitrate	mg/L	0.01	0.01	<0.01	0.02	na	na	na	na	na	na	na	na
Nitrite	mg/L	0.01											
pH ^b	pH	0.01	7.15	6.96	6.56	na	na	na	na	na	na	na	na
Phosphorus (total)	mg/L	0.01	0.09	0.02	0.22	na	na	na	na	na	na	na	na
Potassium	mg/L	1	6	4	4	na	na	na	na	na	na	na	na
Reactive Phosphorus	mg/L	0.01											
Redox potential ^b	mV	0.1	-87.7	-120.6	-67.5	na	na	na	na	na	na	na	na
Selenium	mg/L	0.01	<0.01	<0.01	<0.01	na	na	na	na	na	na	na	na
Silica	mg/L	0.1	25.4	20.8	33.2	na	na	na	na	na	na	na	na
Sodium	mg/L	1	643	291	244	na	na	na	na	na	na	na	na
Sodium Adsorption Ratio	ratio	0.01											
Standing water level	m AHD	0.01	112.87	113.77	113.96	na	na	na	na	na	na	na	na
Strontium (dissolved)	mg/L	0.001	24.700	15.200	3.200	na	na	na	na	na	na	na	na
Sulfate	mg/L	1	74	<1	54	na	na	na	na	na	na	na	na
Total alkalinity	mg/L	1	429	298	370	na	na	na	na	na	na	na	na
Total dissolved solids	mg/L	10	2750	1820	1290	na	na	na	na	na	na	na	na
Total organic carbon	mg/L	1											
Total suspended solids	mg/L	5											
Uranium	mg/L	0.001	<0.001	<0.001	<0.001	na	na	na	na	na	na	na	na
Vanadium	mg/L	0.01	<0.01	<0.01	<0.01	na	na	na	na	na	na	na	na
Zinc	mg/L	0.005	0.013	0.017	0.027	na	na	na	na	na	na	na	na

Shaded grey = not required to be analysed

^a No water present at this location at the time of sampling

^b measured with calibrated field meter


na - not analysed as no sample collected



Table 5: Continuous water level monitoring results for monitoring points 39 - 44 for the period 1 December 2014 – 25 February 2015

Monitoring point	30	31	39	40	41	42	43	44
Location	TMB04	TMB05	TMB01	TMB02	TMB03	S4MB01	TCMB01	TTMB02
Data type	Standing water level							
Units	mAHD							
Data date range	01/12/14 – 24/02/15		01/12/14 – 25/02/15			01/12/14 – 24/02/15		
Date data downloaded	24/02/15	24/02/15	25/02/15	25/02/15	25/02/15	24/02/15	24/02/15	24/02/15
Date data supplied to AGL	19/03/15	19/03/15	19/03/15	19/03/15	19/03/15	19/03/15	19/03/15	19/03/15
Monitoring frequency required by EPL 20358	Every 6 hours	Every 6 hours	Every 6 hours	Every 6 hours	Every 6 hours	Every 6 hours	Every 6 hours	Every 6 hours
Actual monitoring frequency	Every 6 hours	Every 6 hours	Every 6 hours	Every 6 hours	Every 6 hours	Every 6 hours	Every 6 hours	Every 6 hours
No. of times measured during monitoring period	343	343	346	346	347	343	343	343
Min. value	113.22	118.80	101.78	102.12	103.17	112.82	113.71	113.35
Mean value	113.28	119.10	102.60	102.43	103.32	112.87	113.78	113.93
Median value	113.28	119.11	102.71	102.45	103.33	112.87	113.78	113.98
Max. value	113.34	119.16	103.21	102.63	103.43	112.91	113.83	114.02

References

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