

Gas Composition Analysis Report

Analysis Batch: 2011/666 Report Date: 13/05/2011				Air Included														Air Corrected										
Sample ID	Canister ID	Depth From (m)	Depth To (m)	Oxygen+Argon (%)	Nitrogen (%)	Carbon Dioxide (%)	Methane (%)	Ethane (%)	Propane (%)	i-Butane (%)	n-Butane (%)	i-Pentane (%)	n-Pentane (%)	Hexane (%)	Purge Gas (%)	Total (%)	Air Content (%)	Nitrogen (%)	Carbon Dioxide (%)	Methane (%)	Ethane (%)	Propane (%)	i-Butane (%)	n-Butane (%)	i-Pentane (%)	n-Pentane (%)	Hexane (%)	Total (%)
DWH019_0010805111007A1	DWH019_001	417.080	417.880	7.42	22.11	20.07	10.57	0.02	ND	ND	ND	<0.01	<0.01	ND	39.82	100.00	33.90	0.00	65.45	34.48	0.07	ND	ND	ND	<0.01	<0.01	ND	100.00
DWH019_0011105110927B1	DWH019_001	417.080	417.880	2.45	16.17	23.93	10.81	0.02	<0.01	ND	ND	<0.01	<0.01	ND	46.62	100.00	11.18	17.62	56.69	25.61	0.05	<0.01	ND	ND	<0.01	<0.01	ND	100.00
DWH019_0020805111013A1	DWH019_002	417.880	418.670	6.26	20.09	22.55	10.15	0.02	ND	ND	ND	ND	ND	ND	40.93	100.00	28.61	0.00	68.91	31.02	0.07	ND	ND	ND	ND	ND	ND	100.00
DWH019_0021105110930B1	DWH019_002	417.880	418.670	2.56	17.98	26.97	10.27	0.02	ND	ND	ND	ND	ND	ND	42.20	100.00	11.69	19.20	58.48	22.28	0.05	ND	ND	ND	ND	ND	ND	100.00
DWH019_0030805111017A1	DWH019_003	424.360	425.150	9.33	32.99	12.84	4.08	0.01	ND	ND	ND	ND	ND	ND	40.75	100.00	42.62	0.00	75.82	24.11	0.08	ND	ND	ND	ND	ND	ND	100.00
DWH019_0031105110932B1	DWH019_003	424.360	425.150	1.32	21.20	20.58	6.16	0.02	ND	ND	ND	ND	ND	ND	50.72	100.00	6.02	38.14	47.56	14.25	0.05	ND	ND	ND	ND	ND	ND	100.00
DWH019_0040805111021A1	DWH019_004	427.060	427.860	6.76	24.25	25.93	7.35	0.01	<0.01	ND	ND	ND	ND	ND	35.70	100.00	30.87	0.41	77.55	22.00	0.03	<0.01	ND	ND	ND	ND	ND	100.00
DWH019_0041105110935B1*	DWH019_004	427.060	427.860	21.91	77.99	0.10	<0.01	ND	ND	ND	ND	ND	ND	ND	0.00	100.00	100.00	-	-	-	-	-	-	-	-	-	-	-
DWH019_0050805111023A1	DWH019_005	439.410	439.950	10.95	33.29	7.45	2.22	<0.01	ND	ND	ND	ND	ND	<0.01	46.10	100.00	50.02	0.00	76.97	22.98	<0.01	ND	ND	ND	ND	ND	<0.01	100.00
DWH019_0051105110937B1	DWH019_005	439.410	439.950	2.78	17.33	13.24	3.69	<0.01	ND	<0.01	<0.01	ND	ND	<0.01	62.94	100.00	12.72	30.39	54.40	15.18	<0.01	ND	<0.01	<0.01	ND	ND	<0.01	100.00
DWH019_0060805111027A1	DWH019_006	446.070	446.880	7.53	23.02	9.41	3.16	<0.01	<0.01	ND	ND	ND	ND	ND	56.87	100.00	34.42	0.00	74.78	25.15	<0.01	<0.01	ND	ND	ND	ND	ND	100.00
DWH019_0061105110939B1	DWH019_006	446.070	446.880	2.53	17.50	11.95	3.39	0.01	<0.01	ND	ND	ND	ND	ND	64.63	100.00	11.54	35.63	50.12	14.20	0.05	<0.01	ND	ND	ND	ND	ND	100.00
DWH019_0070805111032A1_1	DWH019_007	448.090	448.890	6.35	23.08	14.32	5.20	<0.01	<0.01	ND	ND	<0.01	<0.01	ND	51.04	100.00	29.03	2.03	71.83	26.10	<0.01	<0.01	ND	ND	<0.01	<0.01	ND	100.00
DWH019_0070805111032A1_2	DWH019_007	448.090	448.890	6.37	23.13	14.35	5.21	<0.01	<0.01	ND	ND	<0.01	<0.01	ND	50.93	100.00	29.11	1.99	71.85	26.12	<0.01	<0.01	ND	ND	<0.01	<0.01	ND	100.00
DWH019_0071105110942B1_1	DWH019_007	448.090	448.890	1.79	20.40	13.96	4.26	<0.01	ND	ND	ND	ND	ND	ND	59.59	100.00	8.19	43.45	43.32	13.21	<0.01	ND	ND	ND	ND	ND	ND	100.00
DWH019_0071105110942B1_2	DWH019_007	448.090	448.890	1.80	20.43	13.95	4.25	<0.01	ND	ND	ND	ND	ND	ND	59.56	100.00	8.21	43.50	43.28	13.20	<0.01	ND	ND	ND	ND	ND	ND	100.00
DWH019_0080805111036A1	DWH019_008	451.380	452.170	12.87	38.04	7.11	2.02	<0.01	<0.01	ND	ND	ND	ND	ND	39.95	100.00	58.81	0.00	77.77	22.16	<0.01	<0.01	ND	ND	ND	ND	ND	100.00
DWH019_0081105110944B1	DWH019_008	451.380	452.170	2.59	20.75	10.50	2.88	<0.01	<0.01	ND	ND	ND	ND	ND	63.27	100.00	11.83	46.23	42.16	11.57	<0.01	<0.01	ND	ND	ND	ND	ND	100.00
DWH019_0091105111203A1	DWH019_009	613.990	614.780	1.48	3.90	60.01	3.77	0.03	<0.01	ND	ND	<0.01	<0.01	<0.01	30.81	100.00	6.76	0.00	94.04	5.90	0.04	<0.01	ND	ND	<0.01	<0.01	<0.01	100.00
DWH019_0091205110612B1	DWH019_009	613.990	614.780	1.79	5.45	71.41	4.36	0.02	ND	ND	ND	ND	ND	ND	16.97	100.00	8.19	0.00	94.22	5.75	0.03	ND	ND	ND	ND	ND	ND	100.00
DWH019_0101105110714A1	DWH019_010	616.070	616.870	5.39	16.08	8.29	0.63	<0.01	ND	ND	ND	ND	ND	ND	69.61	100.00	24.64	0.00	92.90	7.08	<0.01	ND	ND	ND	ND	ND	ND	100.00
DWH019_0101105111204B1	DWH019_010	616.070	616.870	0.93	2.95	71.27	4.45	0.02	<0.01	ND	ND	<0.01	<0.01	<0.01	20.38	100.00	4.26	0.00	94.10	5.87	0.02	<0.01	ND	ND	<0.01	<0.01	<0.01	100.00
DWH019_0101205110615C1	DWH019_010	616.070	616.870	0.74	3.54	79.09	4.91	0.02	ND	ND	ND	ND	ND	ND	11.69	100.00	3.39	1.05	93.14	5.78	0.03	ND	ND	ND	ND	ND	ND	100.00
DWH019_0111105111205A1	DWH019_011	616.870	617.650	2.87	9.68	54.24	3.31	0.01	<0.01	ND	ND	ND	ND	ND	29.88	100.00	13.14	0.00	94.22	5.75	0.02	<0.01	ND	ND	ND	ND	ND	100.00
DWH019_0111205110618B1	DWH019_011	616.870	617.650	0.94	3.48	76.56	4.28	0.02	ND	ND	ND	ND	ND	ND	14.72	100.00	4.29	0.17	94.52	5.29	0.03	ND	ND	ND	ND	ND	ND	100.00

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DWH019_0121205110555A1	DWH019_012	655.950	656.740	13.69	41.22	33.46	0.10	ND	ND	ND	ND	ND	ND	ND	11.53	100.00	62.58	0.00	99.70	0.30	ND	ND	ND	ND	ND	ND	ND	ND	100.00
DWH019_0121305111231B1	DWH019_012	655.950	656.740	13.91	43.78	28.45	0.49	<0.01	ND	ND	ND	ND	ND	ND	13.38	100.00	63.55	0.00	98.30	1.70	<0.01	ND	ND	ND	ND	ND	ND	ND	100.00
Standard B1_1				0.07	38.74	9.56	40.82	9.53	0.21	0.24	0.24	0.20	0.20	0.20	0.00	100.00	0.31	38.52	9.59	40.95	9.56	0.21	0.24	0.24	0.20	0.20	0.20	0.20	100.00
Standard B1_2				0.07	38.73	9.56	40.84	9.53	0.21	0.24	0.24	0.20	0.20	0.20	0.00	100.00	0.31	38.51	9.59	40.96	9.56	0.21	0.24	0.24	0.20	0.20	0.20	0.20	100.00
Standard B2_1				0.06	38.69	9.56	40.91	9.51	0.21	0.24	0.24	0.19	0.19	0.19	0.00	100.00	0.28	38.58	9.58	41.02	9.54	0.21	0.24	0.24	0.20	0.20	0.20	0.20	100.00
Standard B2_2				0.06	38.72	9.56	40.88	9.51	0.21	0.24	0.24	0.20	0.20	0.20	0.00	100.00	0.28	38.51	9.58	41.00	9.54	0.21	0.24	0.24	0.20	0.20	0.20	0.20	100.00

Air Included Parameters: The above results are calculated assuming only the measured constituents are present. Oxygen+Argon is quantified from an Air Standard. Purge gas is calculated by difference.

Air Corrected Parameters: The above results are calculated on an air free basis assuming only the measured constituents are present.

The following are the concentrations for the NATA accredited standards used as part of Earth Data's QAQC procedures.

NB: * Denotes sample contains <1% of measured components after air and purge gas corrections.

Standard ID	Nitrogen	Methane	Carbon Dioxide	Ethane	Propane	Isobutane	N-butane	Isopentane	N-pentane	Hexane
Standard A	0.29	98.09	0.21	0.21	0.21	0.20	0.20	0.20	0.20	0.20
Standard B	38.87	40.87	9.52	9.47	0.21	0.24	0.24	0.20	0.20	0.20
Standard C	98.19	0.21	0.20	0.22	0.20	0.20	0.20	0.20	0.20	0.20
Standard D	0.30	98.02	0.22	0.22	0.22	0.20	0.20	0.19	0.19	0.19
Standard E	39.19	40.99	9.28	9.36	0.21	0.24	0.24	0.20	0.20	0.20
Standard F	98.17	0.21	0.21	0.21	0.20	0.20	0.20	0.20	0.20	0.20