



Our Ref.p-sw-536.West Street, Havant

9th April, 2015

Mansell Homes
Roman House
Salisbury Road
Totton
Southampton
SO40 3XF

For the attention of Mr. Ron Rouse.

Dear Ron,

West Street, Havant – Ongoing Gas Monitoring

Further to issue of our Report No. SW-536.1.1, please find enclosed an updated set of monitoring data showing the results from a total of 5 visits to date, including one during low and falling atmospheric pressure.

The additional data are broadly consistent with the results from the initial monitoring, such that our conclusions regarding gas protection still remain as per our original report i.e. basic protective measures complying with CS2/Amber 1, reflecting the marginally elevated Carbon Dioxide.

I trust the above and attached are sufficient for your present requirements. We will provide a further update on completion of our final round of monitoring.

Yours sincerely,

Tim Gillbanks
BSc(Hons), CGeol, CSci, FGS



Field Gas Monitoring Records

Job Reference: p-sw-536

Site: West Street, Havant

Client: Mansell Homes

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Well ID	Date	Depth to Water (mbGL)	Depth to Base (mbGL)	Atmos. Pressure (mb)	Gas Flow (Peak) (L/hr)	Gas Flow (Steady) (L/hr)	Methane (Peak) (% Vol)	Methane (Steady) (% Vol)	Carbon Dioxide (Peak) (% Vol)	Carbon Dioxide (Steady) (% Vol)	Oxygen (Minimum) (% Vol)
WS01	07/08/2014	1.07	4.02	1012	1.3	<0.1	<0.1	<0.1	1.0	1.0	18.6
	22/08/2014	1.08	4.02	1009	<0.1	<0.1	<0.1	<0.1	0.5	<0.1	19.7
	11/09/2014	1.09	4.02	1020	<0.1	<0.1	<0.1	<0.1	0.3	<0.1	20.0
	06/10/2014	1.02	4.02	998	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	21.5
	23/03/2015	0.87	4.02	1016	<0.1	<0.1	<0.1	<0.1	1.7	1.7	10.3
			2.86	1012	0.1	<0.1	0.1	0.1	2.2	2.2	17.9
			2.86	1009	<0.1	<0.1	0.1	0.1	0.7	0.5	19.5
			2.86	1020	<0.1	<0.1	<0.1	<0.1	2.7	2.7	15.0
			2.86	998	<0.1	0.1	<0.1	<0.1	0.2	0.2	21.7
	23/03/2015	0.83	2.86	1016	<0.1	<0.1	<0.1	<0.1	0.6	0.5	21.0
WS03	07/08/2014	1.14	3.48	1012	<0.1	<0.1	0.1	0.1	2.6	2.6	18.1
	22/08/2014	1.15	3.48	1009	<0.1	<0.1	<0.1	<0.1	1.6	1.6	17.5
	11/09/2014	1.16	3.48	1020	<0.1	<0.1	<0.1	<0.1	1.8	1.8	19.0
	06/10/2014	1.09	3.48	998	<0.1	<0.1	<0.1	<0.1	1.5	1.5	21.2
	23/03/2015	0.93	3.48	1016	<0.1	<0.1	<0.1	<0.1	0.9	0.9	20.6
WS04	07/08/2014	1.08	3.83	1012	<0.1	<0.1	0.1	0.1	1.5	1.5	18.8
	22/08/2014	1.03	3.83	1009	<0.1	<0.1	<0.1	<0.1	1.9	1.9	19.1
	11/09/2014	1.04	3.83	1020	<0.1	<0.1	<0.1	<0.1	1.5	1.5	19.1
	06/10/2014	0.96	3.83	998	<0.1	<0.1	<0.1	<0.1	4.7	1.1	16.1
	23/03/2015	0.83	3.83	1016	<0.1	<0.1	<0.1	<0.1	0.4	0.2	21.1
WS05	07/08/2014	1.08	2.60	1012	<0.1	<0.1	<0.1	<0.1	5.6	5.5	15.0
	22/08/2014	1.09	2.60	1009	<0.1	<0.1	<0.1	<0.1	7.1	7.1	12.6
	11/09/2014	1.09	2.60	1020	<0.1	<0.1	<0.1	<0.1	3.0	2.8	17.5
	06/10/2014	1.02	2.60	998	<0.1	<0.1	<0.1	<0.1	4.5	4.5	15.4

	23/03/2015	0.94	2.60	1016	<0.1	<0.1	<0.1	<0.1	0.9	0.9	20.6
WS06	07/08/2014	1.14	3.29	1012	<0.1	<0.1	<0.1	<0.1	5.1	5.1	14.4
	22/08/2014	1.14	3.29	1009	<0.1	<0.1	<0.1	<0.1	2.9	2.9	17.9
	11/09/2014	1.15	3.29	1020	<0.1	<0.1	<0.1	<0.1	4.4	4.4	12.8
	06/10/2014	1.06	3.29	998	0.1	<0.1	<0.1	<0.1	1.1	0.3	19.7
	23/03/2015	0.93	3.29	1016	<0.1	<0.1	<0.1	<0.1	0.2	0.1	21.1
	07/08/2014	0.81	3.41	1012	0.1	<0.1	<0.1	<0.1	0.8	0.4	20.0
	22/08/2014	0.81	3.41	1009	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	20.1
	11/09/2014	0.81	3.41	1020	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	20.6
	06/10/2014	0.79	3.41	998	0.4	<0.1	<0.1	<0.1	<0.1	<0.1	21.9
	23/03/2015	0.72	3.41	1016	<0.1	<0.1	<0.1	<0.1	1.6	1.6	4.3
WS10	07/08/2014	1.05	2.95	1012	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	20.6
	22/08/2014	1.07	2.95	1009	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	20.2
	11/09/2014	1.07	2.95	1020	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	20.6
	06/10/2014	1.07	2.95	998	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	21.1
	23/03/2015	0.72	3.41	1016	<0.1	<0.1	<0.1	<0.1	0.1	0.1	21.2

1) Monitoring carried out using Geotechnical Instruments GA2000 infrared gas analyser with internal flow measurement, and cable reel dipmeter.

2) Atmospheric pressure trends
 07/08/2014: Moderate, falling.
 22/08/2014: Moderate, falling.
 11/09/2014: Moderate, falling.
 06/10/2014: Low, falling.
 23/03/2015: Moderate, falling.

07/08/2014: Hot and clear.
 22/08/2014: Sunny with some cloud.
 11/09/2014: Overcast.
 06/10/2014: Rain with occasional heavy showers
 23/03/2015: Clear and sunny