

Ground Gas and Groundwater Monitoring Record Sheet



JOB DETAILS:
 Client: Taylor Wimpey uk Ltd
 Site: Bingley Road, Menston
 Date: 20/11/2009

Job No: C3545
 Visit No: 1 of 6 over 3 months
 Operator: TC
 Project Manager: PAH

Monitoring Point	GAS CONCENTRATIONS															VOLATILES					FLOW DATA					WELL AND WATER DATA				Comments
	Methane (%v/v)		%LEL		Carbon dioxide (%v/v)		Carbon monoxide (%v/v)		Hydrogen sulphide (%v/v)		Oxygen (%v/v)		PID Peak (ppm)	Product thickness (mm)	Flow rate (l/hr)		Differential borehole Pressure (Pa)	Time for flow to equalise (sec.s)	Water level (mbgl)	Depth of well (m)	Recurd level (mAOD)	Water level (mAOD)	Response Zone							
	Peak	Steady	Peak	Steady	Peak	Steady	Peak	Steady	Peak	Steady	Min.	Steady			Peak	Steady														
WS1	ND	ND	ND	ND	0.2	ND	ND	ND	ND	ND	20	20	ND	ND	-0.4	-0.4	NR	5	0.2											
WS2	ND	ND	ND	ND	0.1	ND	ND	ND	ND	ND	20.1	20.1	ND	ND	0.1	0.1	NR	0	0.6	1.6										
WS5	ND	ND	ND	ND	0.9	ND	ND	ND	ND	ND	20	20	ND	ND	-0.2	-0.2	NR	5	0.88	2.44										
WS6	ND	ND	ND	ND	1.2	ND	ND	ND	ND	ND	19.4	19.4	ND	ND	-0.2	-0.2	NR	5	0.74	2.76										

Ground Gas and Groundwater Monitoring Record Sheet



JOB DETAILS:
 Client: Taylor Wimpey UK, Ltd
 Site: Bingley Road, Menston
 Date: 27/11/2009

Job No: C3545
 Visit No: 2 of 6 Over 3 months
 Operator: TC
 Project Manager: Peter Hall

Monitoring Point	GAS CONCENTRATIONS										VOLATILES				FLOW DATA				WELL AND WATER DATA				Comments		
	Methane (%v/v)		%LEL		Carbon dioxide (%v/v)		Carbon monoxide (%v/v)		Hydrogen sulphide (%v/v)		Oxygen (%v/v)		PID Peak (ppm)	Product thickness (mm)	Flow rate (ft/min)		Differential borehole pressure (psi)	Time for flow to equalise (secs)	Water level (mbgl)	Depth of well (ft)	Reduced level (mAOD)	Water level (mAOD)		Response Zone	
	Peak	Steady	Peak	Steady	Peak	Steady	Peak	Steady	Peak	Steady	Peak	Steady			Peak	Steady									Peak
WS1	ND	ND	ND	ND	0.5	0.4	ND	ND	ND	ND	18.4	19.4	NR	NR	0.2	0.2	NR	0	0.2	NR					
WS2	ND	ND	ND	ND	0.1	0.1	ND	ND	ND	ND	18.9	19.9	NR	NR	0.1	0.1	NR	0	0.46	NR					
WS5	ND	ND	ND	ND	5.2	5.2	ND	ND	ND	ND	19.2	19.2	NR	NR	-0.2	-0.2	NR	5	0.72	NR					
WS6	ND	ND	ND	ND	0.9	0.9	ND	ND	ND	ND	19.3	19.3	NR	NR	-0.1	-0.1	NR	0	0.58	NR					
Max	0	0	0	0	5.2	6.2	0	0	0	0	19.9	19.9	0	0	0.2	0.2	0	0	0.72	0	0	0	0	0.06	
Min	0	0	0	0	0.1	0.1	0	0	0	0	18.2	19.2	0	0	-0.2	-0.2	0	0	0.2	0	0	0	0	0.06	
GSV (l/hr)	0																						9.8104		

METEOROLOGICAL AND SITE INFORMATION:

State of ground: Dry Wet Frozen
 Wind: Calm Moderate Strong
 Cloud cover: None Light Cloudy Overcast
 Precipitation: None Slight Moderate Heavy
 Barometric pressure (mbar): 975 Before 975 After
 Pressure trend: Falling Steady Rising
 Air Temperature (Deg. C): Before After

INSTRUMENTATION TECHNICAL SPECIFICATIONS:

Ground gas meter: GA2000
 Gas concentration: CH₄ ND CO₂ ND
 Gas Range: CH₄ 0-100% CO₂ 0-25%
 Gas Flow range: -100l/hr to +300l/hr
 Differential Pressure: -0.1mbar to +0.80mbar
 Date of last calibration: 01/11/2009

Ground Gas and Groundwater Monitoring Record Sheet



JOB DETAILS:

Client: Taylor Wimpey uk Ltd
 Site: Bingley Road, Manston
 Date: 11/12/2009

Job No: C3545
 Visit No: 3
 Operator: TC

of 6 over 3 months
 Project Manager: PAH

Monitoring Point	GAS CONCENTRATIONS												VOLATILES				FLOW DATA				WELL AND WATER DATA				Comments
	Methane (%v/v)		%LEL		Carbon dioxide (%v/v)		Carbon monoxide (%v/v)		Hydrogen sulphide (%v/v)		Oxygen (%v/v)		FID Peak (ppm)	Product thickness (mm)	Flow rate (l/hr)		Differential borehole pressure (Pa)	Time for flow to equalise (secs)	Water level (mbgl)	Depth of well (m)	Reduced level (m AOD)	Water level (m AOD)	Response Zone		
	Peak	Steady	Peak	Steady	Peak	Steady	Peak	Steady	Peak	Steady	Peak	Steady			Peak	Steady								Peak	
WS1	ND	ND	ND	ND	0.2	0.2	ND	ND	ND	ND	19	18.8			0.1	0.1	0		0.2						
WS2	ND	ND	ND	ND	0.1	0.1	ND	ND	ND	ND	19	19			ND	ND			0.45						
WS3	ND	ND	ND	ND	1.4	0.8	ND	ND	ND	ND	18.6	18.6			-0.1	-0.1	5		0.7						
WS6	ND	ND	ND	ND	1	0.7	ND	ND	ND	ND	18.9	18.9			ND	ND			0.55						
Max	0	0	0	0	1.4	0.8	0	0	0	0	19	19	0	0	0.1	0.1	0	0	0.7	0	0	0	0.00		
Min	0	0	0	0	0.1	0.1	0	0	0	0	18.5	18.6	0	0	-0.1	-0.1	0	0	0.2	0	0	0	0.00		
GSV (l/hr)	0.0008																								

METEOROLOGICAL AND SITE INFORMATION:

State of ground: Dry Wet Frozen
 Wind: X (Calm) Moderate Strong
 Cloud cover: X (None) Cloudy Overcast
 Precipitation: X (None) Moderate Heavy
 Barometric pressure (mbar): 1019 Before 1017 After
 Pressure trend: X Steady Rising Falling After
 Air Temperature (Deg. C): 3 Before 3 After

INSTRUMENTATION TECHNICAL SPECIFICATIONS:

Ground gas meter: GA2000
 Gas concentration: CH₄ ND CO₂ ND
 Gas Range: CH₄ 0-100% CO₂ 0-25%
 Gas Flow range: -100l/hr to +300l/hr
 Differential Pressure: -0.1 mbar to +0.80mbar
 Date of last calibration: 01/12/2009
 Date of next calibration:

PID:

Phocheck 3000
 Calibrated range: 0-100ppm
 Calibration gas: Isobutylene
 Response time: 0.1s
 Accuracy: plus/minus 5% displayed reading
 Date of last calibration: 02.01/08
 Date of next calibration:

Ground Gas and Groundwater Monitoring Record Sheet



JOB DETAILS:

Client: Taylor Wimpey uk Ltd
 Site: Bingley Road, Menston
 Date: 18/12/2009

Job No: C3545
 Visit No: 4
 Operator: TC

of 6 over 3 months
 Project Manager: PAH

Monitoring Point	GAS CONCENTRATIONS										VOLATILES				FLOW DATA				WELL AND WATER DATA				Comments	
	Methane (%v/v)		%LEL		Carbon dioxide (%v/v)		Carbon monoxide (%v/v)		Hydrogen sulphide (%v/v)		Oxygen (%v/v)		PID Peak (ppm)	Product thickness (mm)	Flow rate (l/hr)		Differential borehole pressure (Pa)	Time for flow to equalise (sec)	Water level (mbsl)	Depth of well (m)	Reduced level (mAGD)	Water level (mAGD)		Response Zone
	Peak	Steady	Peak	Steady	Peak	Steady	Peak	Steady	Peak	Steady	Peak	Steady			Peak	Steady								
WS1	ND	ND	ND	ND	0.3	0.3	ND	ND	ND	ND	20	20	ND	0.1	0.1	0	0.2							
WS2	ND	ND	ND	ND	0.1	0.1	ND	ND	ND	ND	20	20	ND	0.42	0.42									
WS5	ND	ND	ND	ND	1	1	ND	ND	ND	ND	18.9	18.9	ND	-0.2	-0.2	5	0.7							
WS6	ND	ND	ND	ND	0.9	0.9	ND	ND	ND	ND	19.1	19.1	ND	ND	ND		0.55							
Max	0	0	0	0	1	1	0	0	0	0	20	20	0	0.1	0.1	0	0.7							
Min	0	0	0	0	0.1	0.1	0	0	0	0	18.9	18.9	0	-0.2	-0.2	0	0							
GSV (l/hr)	0																							

METEOROLOGICAL AND SITE INFORMATION:

State of ground: Dry Wet Frozen
 Wind: Calm Light Moderate Strong Snow
 Cloud cover: None Slight Cloudy Overcast
 Precipitation: None Slight Moderate Heavy 1025 After
 Barometric pressure (mbar): Before Steady Rising 2 After
 Pressure trend: Falling Steady Rising 2 After
 Air Temperature (Deg. C): Before 2 After

INSTRUMENTATION TECHNICAL SPECIFICATIONS:

Ground gas meter: LMSx Multigas Analyser
 Gas concentration: CH₄ ND CO₂ 0-25% O₂ 21.00%
 Gas Range: CH₄ 0-100% CO₂ 0-100% O₂ 0-25%
 Gas Flow range: -100l/hr to +300l/hr
 Differential Pressure: -0.10mbar to +0.80mbar
 Date of last calibration: 01/12/2009
 Date of next calibration: Phoccheck 3000
 Calibrated range: 0-100ppm
 Calibration gas: Isobutylene
 Response time: 0.1s
 Accuracy: plus/minus 5% displayed reading
 Date of last calibration: 01/12/2009
 Date of next calibration:

Ground Gas and Groundwater Monitoring Record Sheet



JOB DETAILS:

Client: Taylor Wimpey uk Ltd
 Site: Bingley Road, Merston
 Date: 27/01/2010

Job No: C3545
 Visit No: 5
 Operator: TC

of 6 over 3 months
 Project Manager: PAH

Monitoring Point	GAS CONCENTRATIONS												VOLATILES								FLOW DATA					WELL AND WATER DATA				Comments							
	Methane (%v/v)		%LEL		Carbon dioxide (%v/v)		Carbon monoxide (%v/v)		Hydrogen sulphide (%v/v)		Oxygen (%v/v)		PID Peak (ppm)	Product thickness (mm)	Flow rate (l/hr)	Differential borehole pressure (Pa)	Time for flow to equalise (secs)	Water level (m)	Water level (mAD)	Reduced level (mAD)	Water level (mAD)	Response Zone															
	Peak	Steady	Peak	Steady	Peak	Steady	Peak	Steady	Peak	Steady	Peak	Steady											Peak	Steady	Peak	Steady	Peak	Steady	Peak		Steady						
WS1	ND	ND	ND	ND	0.4	0.4	ND	ND	ND	ND	20.5	20.5	ND																								
WS2	ND	ND	ND	0.3	0.3	ND	ND	ND	ND	21.1	21.1	ND																									
WS3	ND	ND	ND	1.8	1.8	ND	ND	ND	ND	20.7	20.7	ND																									
WS6	ND	ND	ND	0.1	0.1	ND	ND	ND	ND	21.4	21.4	ND																									
Max	0	0	0	1.8	1.8	0	0	0	0	21.4	21.4	0																									
Min	0	0	0	0.1	0.1	0	0	0	0	20.5	20.5	0																									
GSV (l/hr)															0.0078																						

METEOROLOGICAL AND SITE INFORMATION:

State of ground: Dry Frozen
 Wind: Windy Calm None None
 Precipitation: None None
 Barometric pressure (mbar):
 Pressure trend:
 Air Temperature (Deg. C):

(Select correct box with X or enter data, as applicable)

<input checked="" type="checkbox"/> Moist	<input checked="" type="checkbox"/> Wet	<input type="checkbox"/> Snow
<input type="checkbox"/> Light	<input type="checkbox"/> Moderate	<input checked="" type="checkbox"/> Strong
<input type="checkbox"/> Slight	<input type="checkbox"/> Cloudy	<input checked="" type="checkbox"/> Overcast
<input checked="" type="checkbox"/> X	<input type="checkbox"/> Moderate	<input type="checkbox"/> Heavy
1011	<input type="checkbox"/> Steady	1010
Falling		After
4		4

INSTRUMENTATION TECHNICAL SPECIFICATIONS:

Ground gas meter: LMSx Multigas Analyser
 Gas concentration: CH₄ ND CO₂ ND
 Gas Range: CH₄ 0-100% CO₂ 0-25% O₂ 21.00%
 Gas Flow range: -100l/hr to +300l/hr
 Differential Pressure: -0.10mbar to +0.80mbar
 Date of last calibration: 04/01/2010
 Date of next calibration:

PID: Photocheck 3000

Calibrated range: 0-100ppm
 Calibration gas: Isobutylene

Response time: 0.1s

Accuracy: plus/minus 5% displayed reading

Date of last calibration: 04/01/2010

Date of next calibration:



Ground Gas and Groundwater Monitoring Record Sheet

JOB DETAILS:
 Client: Taylor Wimpey UK Ltd
 Site: Bingley Road, Menston
 Date: 09/02/2010

Job No: C3545
 Visit No: 6 of 6 over 3 months
 Operator: TC
 Project Manager: PAH

Monitoring Point	GAS CONCENTRATIONS										VOLATILES				FLOW DATA				WELL AND WATER DATA				Comments	
	Methane (%v/v)		%LEL		Carbon dioxide (%v/v)		Carbon monoxide (ppm)		Hydrogen sulphide (ppm)		Oxygen (%v/v)		PID Peak (ppm)	Product thickness (mm)	Flow rate (l/hr)		Differential borehole pressure (Pa)	Time for flow to equalise (secs)	Water level (mbsl)	Depth of well (m)	Reduced level (mAOD)	Water level (mAOD)		Response Zone
	Peak	Steady	Peak	Steady	Peak	Steady	Peak	Steady	Peak	Steady	Peak	Steady			Peak	Steady								
WS1	ND	ND	ND	ND	0.1	0.1	ND	ND	ND	ND	21.2	21.2	ND	ND	0.4	0.4	5	0.29						
WS2	ND	ND	ND	ND	0.3	0.3	ND	ND	ND	ND	21.3	21.3	ND	ND	-5.1	-5.1	5	0.47						
WS5	ND	ND	ND	ND	0.4	0.4	ND	ND	ND	ND	21.2	21.2	ND	ND	0.2	0.2	0	0.84						
WS6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	21.1	21.1	ND	ND	0.1	0.1	0	0.7						
Max	0	0	0	0	0.4	0.4	0	0	0	0	21.3	21.3	0	0	0.4	0.4	0	0.84						0.00
Min	0	0	0	0	0.1	0.1	0	0	0	0	21.1	21.1	0	0	-5.1	-5.1	0	0.29						0.00
GSV (l/hr)	0.0016																							

METEOROLOGICAL AND SITE INFORMATION:
 State of ground: Dry Wet Frozen
 Wind: Calm Moderate Strong
 Cloud cover: None Cloudy Heavy
 Precipitation: None Slight Moderate Heavy
 Barometric pressure (mbar): 1002 Before 1002 After Rising Falling 4 Before 4 After
 Pressure trend: Before After
 Air Temperature (Deg. C): Before After

INSTRUMENTATION TECHNICAL SPECIFICATIONS:
 Ground gas meter: LMSx Multigas Analyser
 Gas concentration: CH₄ ND CO₂ ND
 Gas Range: CH₄ 0-100% CO₂ 0-100% O₂ 0-25%
 Gas Flow range: -100l/hr to +300l/hr
 Differential Pressure: -0.10mbar to +0.80mbar
 Date of last calibration: 01/02/2010
 Date of next calibration:

PID: Phocheck 3000
 Calibrated range: 0-100ppm
 Calibration gas: Isobutylene
 Response time: 0.1s
 Accuracy: plus/minus 5% displayed reading
 Date of last calibration: 01/02/2010
 Date of next calibration: