

Project Name
Thorley Drive, Cheadle
Equipment: JCB 3CX

Project No.
13052

Co-ords: -
Level: -

Date
16/04/2013

Dimensions: 2.00m

Depth
3.50m

0.60m

Scale
1:25

Logged By
AMG

Client: David Wilson Homes Mercia

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description	
Depth (m)	Type	Results					
			0.25			TOPSOIL	
			0.70			possible MADE GROUND: Firm to stiff dark grey clay.	
			1.40			possible MADE GROUND: Firm brown and grey slightly sandy clay.	1
			3.05			possible MADE GROUND: Firm dark grey and grey-brown gravelly slightly cobbly clay grading to slightly clayey slightly cobbly gravel. Gravel and cobble is angular fine to coarse mudstone, coal and shale.	2
			3.50			Stiff light grey slightly gravelly CLAY. Gravel is mudstone. (Pennine Lower Coal Measures)	3
						Trialpit Complete at 3.50 m	4

Remarks:

Groundwater: Groundwater not encountered in excavation.



Project Name
Thorley Drive, Cheadle
Equipment: JCB 3CX

Project No.
13052

Co-ords: -
Level: -

Dimensions: 2.00m

Depth
2.00m

0.60m

Date
16/04/2013

Scale
1:25

Logged By
AMG

Client: David Wilson Homes Mercia

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
			0.30			TOPSOIL
			1.30			Firm to stiff brown and light grey locally slightly sandy CLAY. (Pennine Lower Coal Measures)
			2.00			Stiff light grey and brown slightly gravelly to locally gravelly CLAY with occasional cobble. Gravel and cobble is angular fine to coarse mudstone. (Pennine Lower Coal Measures)
Trialpit Complete at 2.00 m						

Remarks: Difficult to dig below 1.6 m begl.

Groundwater: Groundwater not encountered in excavation.



Project Name

Thorley Drive, Cheadle

Equipment: JCB 3CX

Project No.

13052

Co-ords: -

Level: -

Dimensions:

2.00m

Depth

3.45m

0.60m

Scale

1:25

Logged By

AMG

Client: David Wilson Homes Mercia

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
			0.20			TOPSOIL
			1.20			possible MADE GROUND: Firm to stiff dark grey slightly sandy slightly gravelly clay. Gravel is angular fine to coarse mudstone.
			1.50			possible MADE GROUND: Firm brown and grey slightly gravelly clay.
			1.50			possible MADE GROUND: (Loose) black slightly cobbly gravel of angular fine to coarse shale.
			2.05			Firm brown and grey slightly gravelly CLAY with occasional cobble. Gravel and cobble is angular fine to coarse mudstone and ironstone. (Pennine Lower Coal Measures)
			3.45			Trialpit Complete at 3.45 m

Remarks: Pit sides unstable between 1.05 and 2.05 m begl.

Groundwater: Groundwater not encountered in excavation.



Project Name
Thorley Drive, Cheadle
Equipment: JCB 3CX

Project No.
13052

Co-ords: -
Level: -

Dimensions: 2.00m

Depth
1.60m

0.60m

Date
16/04/2013

Scale
1:25

Logged By
AMG

Client: David Wilson Homes Mercia

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description	
Depth (m)	Type	Results					
						TOPSOIL	
			0.30			Firm grey-brown slightly sandy CLAY. (Pennine Lower Coal Measures)	
			0.90			Firm to stiff light brown and brown slightly sandy slightly gravelly to locally gravelly CLAY. Gravel is angular fine to coarse mudstone. (Pennine Lower Coal Measures)	1
			1.45			Purple-brown sandy SILTSTONE, very weak. (Pennine Lower Coal Measures)	
			1.60			Trialpit Complete at 1.60 m	2
							3
							4

Remarks:

Groundwater: Groundwater not encountered in excavation.



Project Name

Thorley Drive, Cheadle

Equipment: JCB 3CX

Project No.

13052

Co-ords: -

Level: -

Dimensions: 2.00m

Depth

1.40m

0.60m

Client: David Wilson Homes Mercia

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description	
Depth (m)	Type	Results					
			0.20			TOPSOIL	
						Firm brown slightly sandy slightly silty CLAY. (Pennine Lower Coal Measures)	
			0.70			Firm to stiff pale-brown slightly gravelly to locally gravelly CLAY with occasional cobble. Gravel and cobble is angular fine to coarse siltstone. (Pennine Lower Coal Measures)	
			1.05			Grey-brown sandy SILTSTONE, very weak. (Pennine Lower Coal Measures)	1
			1.40			Trialpit Complete at 1.40 m	
							2
							3
							4

Remarks:

Groundwater: Groundwater not encountered in excavation.



APPENDIX E
SOIL-GAS AND GROUNDWATER MONITORING RESULTS

Soil-Gas and Groundwater Monitoring Results

Monitoring Visit No.		1		Date		16/4/13		Barometric Pressure (mb) -		989			
Weather Conditions:		Cloudy and windy											
Surface Ground Conditions:		Dry											
Ambient Concentration (% Volume):						CH ₄ : 0.0		CO ₂ : 0.0		O ₂ : 21.1			
Monitoring Point		Gas Concentration								Gas Flow			
		Highest				Steady		(Lowest)		Gas Flow Rate	Differential Pressure		
		CH ₄		CO ₂		CH ₄		CO ₂				O ₂	
Ref:	GWL	CH ₄		CO ₂		CH ₄		CO ₂		O ₂		litre/hr	Pa
	(m) bgl	% lcl	% v/v	(%)	% lcl	% v/v	(%)	(%)					
BH1	1.73	0.0	0.0	2.3	0.0	0.0	2.3	18.3	0.0			0	
BH5	0.80	0.0	0.0	1.3	0.0	0.0	0.5	20.5	0.4			0	
BH8	3.64	0.0	0.0	0.0	0.0	0.0	0.0	21.1	0.0			0	

Monitoring Visit No.		2	Date		01/05/13		Barometric Pressure (mb) -		1006							
Weather Conditions:			Sunny, warm													
Surface Ground Conditions:			Dry													
Ambient Concentration (% Volume):					CH ₄ :		0.0		CO ₂ :		0.0		O ₂ :		21.2	
Monitoring Point		Gas Concentration										Gas Flow		Differential Pressure		
		Highest					Steady			(Lowest)		Gas Flow Rate				
		CH ₄		CO ₂		CH ₄		CO ₂	O ₂							
Ref:	GWL	CH ₄		CO ₂		CH ₄		CO ₂	O ₂		litre/hr	Pa				
	(m) bgl	% lcl	% v/v	(%)	% lcl	% v/v	(%)	(%)								
BH1	1.91	0.0	0.0	1.2	0.0	0.0	1.1	20.1	0.0	0						
BH5	0.80	0.0	0.0	0.0	0.0	0.0	0.0	21.0	0.0	0						
BH8	4.10	0.0	0.0	2.3	0.0	0.0	2.2	19.5	0.0	0						

Monitoring Visit No.		3	Date		14/05/13		Barometric Pressure (mb) -		983	
Weather Conditions:			Overcast, Rain. 8.5°C.							
Surface Ground Conditions:			Dry							
Ambient Concentration (% Volume):					CH ₄ : 0.0		CO ₂ : 0.0		O ₂ : 21.3	
Monitoring Point		Gas Concentration							Gas Flow	
		Highest			Steady		(Lowest)	Gas Flow Rate	Differential Pressure	
Ref:	GWL	CH ₄		CO ₂	CH ₄		CO ₂	O ₂		
	(m) bgl	% lcl	% v/v	(%)	% lcl	% v/v	(%)	(%)	litre/hr	Pa
BH1	Unable to locate due to foliage growth.									
BH5	0.84	0.0	0.0	0.3	0.0	0.0	0.2	20.8	0.1	0
BH8	4.38	0.0	0.0	2.8	0.0	0.0	2.6	19.4	0.0	0

Equipment Used: Geotechnical Instruments (GI) and Solinst		Notes
GI - GA2000 Gas Concentration/Atmospheric Pressure		(m) bgl - metres below ground level
GI - GA2000 Borehole Gas FlowRate/Borehole Pressure		
Solinst combined dip meter and interface meter- Groundwater Level (GWL)		
	Job Title:	Job No:
	Thorley Drive, Cheadle	13052
	Client:	Table Number:
	David Wilson Homes Mercia	1

Soil-Gas and Groundwater Monitoring Results

Monitoring Visit No.		4		Date		30/05/13		Barometric Pressure (mb) -		994	
Weather Conditions:		Overcast, windy, 13.5°C.									
Surface Ground Conditions:		Dry/Damp									
Ambient Concentration (% Volume):						CH ₄ : 0.0		CO ₂ : 0.0		O ₂ : 21.1	
Monitoring Point		Gas Concentration							Gas Flow		
		Highest			Steady			(Lowest)	Gas Flow Rate	Differential Pressure	
		CH ₄		CO ₂	CH ₄		CO ₂				
Ref:	GWL	CH ₄		CO ₂	CH ₄		CO ₂	O ₂	litre/hr	Pa	
	(m) bgl	% lsl	% w/v	(%)	% lsl	% w/v	(%)	(%)			
BH1	1.14	0.0	0.0	3.3	0.0	0.0	3.2	17.4	0.0	0	
BH5	0.32	0.0	0.0	0.3	0.0	0.0	0.1	20.7	1.5	4	
BH8	3.37	0.0	0.0	3.3	0.0	0.0	3.2	16.9	0.0	0	

Monitoring Visit No.	5	Date	20/06/13		Barometric Pressure (mb) -			994		
Weather Conditions:		Overcast, windy, 16.5°C.								
Surface Ground Conditions:		Dry								
Ambient Concentration (% Volume):				CH ₄ : 0.0		CO ₂ : 0.0		O ₂ : 21.0		
Monitoring Point		Gas Concentration							Gas Flow	
		Highest			Steady			(Lowest)	Gas Flow Rate	Differential Pressure
		CH ₄		CO ₂	CH ₄		CO ₂			
Ref:	GWL	CH ₄		CO ₂	CH ₄		CO ₂	O ₂		
	(m) bgl	% lsl	% v/v	(%)	% lsl	% v/v	(%)	(%)	litre/hr	Pa
BH1	1.89	0.0	0.0	0.8	0.0	0.0	0.8	20.2	0.0	0
BH5	0.52	0.0	0.0	0.2	0.0	0.0	0.1	20.8	0.0	0
BH8	4.05	0.0	0.0	2.3	0.0	0.0	2.3	19.6	0.0	0

Equipment Used: Geotechnical Instruments (GI) and Solinst	Notes
GI - GA2000 Gas Concentration/Atmospheric Pressure	(m) bgl - metres below ground level
GI - GA2000 Borehole Gas Flow Rate/Borehole Pressure	
Solinst combined dip meter and interface meter- Groundwater Level (GWL)	

	Job Title:	Thorley Drive, Cheadle	Job No:	13052
	Client:	David Wilson Homes Mercia	Table Number:	1

**APPENDIX F
CHEMICAL TEST RESULTS**

Georisk Management Limited
Summit Point
Summit Crescent Industrial Estate
Smethwick, Birmingham
B66 1BT

FAO Mark Gill
09 April 2013

Dear Mark Gill

Test Report Number 226728
Your Project Reference 13052 - Thorley Drive, Cheadle

Please find enclosed the results of analysis for the samples received 28 March 2013.

All soil samples will be retained for a period of one month and all water samples will be retained for 7 days following the date of the test report. Should you require an extended retention period then please detail your requirements in an email to customerservices@chemtest.co.uk. Please be aware that charges may be applicable for extended sample storage.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely



Keith Jones, Technical Manager



Notes to accompany report:

- The sign < means 'less than'
- Tests marked 'U' hold UKAS accreditation
- Tests marked 'M' hold MCA (and UKAS) accreditation
- Tests marked 'N' do not currently hold UKAS accreditation
- Tests marked 'S' were subcontracted to an approved laboratory
- n/e means 'not evaluated'
- i/s means 'insufficient sample'
- u/s means 'unsuitable sample'
- Comments or interpretations are beyond the scope of UKAS accreditation
- The results relate only to the items tested
- All results are expressed on a dry weight basis
- The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, phenols
- For all other tests the samples were dried at < 37°C prior to analysis
- Uncertainties of measurement for the determinands tested are available upon request
- None of the test results included in this report have been recovery corrected

Report Date
09 April 2013

Results of analysis of 15 samples
received 28 March 2013

13052 - Thorley Drive, Cheadle

FAO Mark Gill

Login Batch No		226728		A148396		A148397		A148398		A148399		A148400		A148401	
Chemtest LIMS ID		Sample ID		BH1		BH2		BH3		BH4		BH5		BH6	
Sample No		Sampling Date		25/3/2013		25/3/2013		25/3/2013		25/3/2013		25/3/2013		25/3/2013	
Depth		Matrix		0.4m		0.4m		0.4m		0.4m		0.3m		0.4m	
SOP ↓		Determination ↓		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
CAS No ↓		Units ↓		6.5		6.6		6.3		6.1		6.3		6.2	
2010 pH				<0.5		<0.5		<0.5		<0.5		<0.5		<0.5	
2300 Cyanide (total)	57125	M	mg kg ⁻¹	0.9		<0.4		<0.4		0.6		1.0		0.6	
2120 Boron (hot water soluble)	7440428	M	mg kg ⁻¹	<0.01		<0.01		<0.01		<0.01		<0.01		<0.01	
Sulfate (2:1 water soluble) as SO ₄	14805798	M	g l ⁻¹	6.9		4.0		<2.0		4.0		6.9		5.3	
2450 Arsenic	7440382	M	mg kg ⁻¹	0.36		0.12		<0.10		0.25		0.39		0.17	
Cadmium	7440439	M	mg kg ⁻¹	17		15		14		12		14		12	
Chromium	7440473	M	mg kg ⁻¹	28		12		11		13		23		14	
Copper	7440508	M	mg kg ⁻¹	<0.10		<0.10		<0.10		<0.10		<0.10		<0.10	
Mercury	7439976	M	mg kg ⁻¹	17		20		17		13		15		14	
Nickel	7440020	M	mg kg ⁻¹	39		14		6.9		25		47		19	
Lead	7439921	M	mg kg ⁻¹	<0.20		<0.20		<0.20		<0.20		<0.20		<0.20	
Selenium	7782492	M	mg kg ⁻¹	82		61		42		48		76		51	
Zinc	7440668	M	mg kg ⁻¹	<0.1		<0.1		<0.1		<0.1		<0.1		<0.1	
2700 Naphthalene	91203	M	mg kg ⁻¹	<0.1		<0.1		<0.1		<0.1		<0.1		<0.1	
Acenaphthylene	208968	M	mg kg ⁻¹	<0.1		<0.1		<0.1		<0.1		<0.1		<0.1	
Acenaphthene	83329	M	mg kg ⁻¹	<0.1		<0.1		<0.1		<0.1		<0.1		<0.1	
Fluorene	86737	M	mg kg ⁻¹	<0.1		<0.1		<0.1		<0.1		<0.1		<0.1	
Phenanthrene	85016	M	mg kg ⁻¹	<0.1		<0.1		<0.1		<0.1		<0.1		0.42	
Anthracene	120127	M	mg kg ⁻¹	<0.1		<0.1		<0.1		<0.1		<0.1		0.26	
Fluoranthene	206440	M	mg kg ⁻¹	0.22		<0.1		<0.1		<0.1		<0.1		0.47	
Pyrene	129000	M	mg kg ⁻¹	0.13		<0.1		<0.1		<0.1		<0.1		0.31	
Benzo[a]anthracene	56553	M	mg kg ⁻¹	0.11		<0.1		<0.1		<0.1		<0.1		0.15	
Chrysene	218019	M	mg kg ⁻¹	0.14		<0.1		<0.1		<0.1		<0.1		0.19	
Benzo[b]fluoranthene	205982	M	mg kg ⁻¹	<0.1		<0.1		<0.1		<0.1		<0.1		<0.1	

LABORATORY TEST REPORT

Results of analysis of 15 samples
received 28 March 2013

FAO Mark Gill

13052 - Thorley Drive, Cheadle

Report Date
09 April 2013

Login Batch No

Chemtest LIMS ID

Sample ID

Sample No

Sampling Date

Depth

Matrix

SOP ↓ Determinand ↓

CAS No ↓

Units ↓

*

226728

Chemtest LIMIS ID													
Sample ID		BH7		BH8		BH9		BH10		BH11		BH12	
Sample No		D1		D1		D1		D1		D1		D1	
Sampling Date		25/3/2013		25/3/2013		25/3/2013		25/3/2013		25/3/2013		25/3/2013	
Depth		0.3m		0.2m		0.3m		0.4m		0.3m		0.2m	
Matrix		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
SOP ↓		Determinand ↓		Units ↓		CAS No ↓							
2010 pH		M											
2300 Cyanide (total)		5.4		5.5		6.5		5.4		5.7		5.8	
2120 Boron (hot water soluble)		<0.5		<0.5		<0.5		<0.5		<0.5		<0.5	
Sulfate (2:1 water soluble) as SO4		mg kg ⁻¹		mg kg ⁻¹		mg kg ⁻¹		mg kg ⁻¹		mg kg ⁻¹		mg kg ⁻¹	
2450 Arsenic		7440428		7440439		7440473		7440508		7439976		7440020	
Cadmium		14808798		7440382		7440439		7440473		7440508		7439976	
Chromium		g l ⁻¹		M		M		M		M		M	
Copper		mg kg ⁻¹		mg kg ⁻¹		mg kg ⁻¹		mg kg ⁻¹		mg kg ⁻¹		mg kg ⁻¹	
Mercury		mg kg ⁻¹		mg kg ⁻¹		mg kg ⁻¹		mg kg ⁻¹		mg kg ⁻¹		mg kg ⁻¹	
Nickel		mg kg ⁻¹		mg kg ⁻¹		mg kg ⁻¹		mg kg ⁻¹		mg kg ⁻¹		mg kg ⁻¹	
Lead		mg kg ⁻¹		mg kg ⁻¹		mg kg ⁻¹		mg kg ⁻¹		mg kg ⁻¹		mg kg ⁻¹	
Selenium		mg kg ⁻¹		mg kg ⁻¹		mg kg ⁻¹		mg kg ⁻¹		mg kg ⁻¹		mg kg ⁻¹	
Zinc		mg kg ⁻¹		mg kg ⁻¹		mg kg ⁻¹		mg kg ⁻¹		mg kg ⁻¹		mg kg ⁻¹	
2700 Naphthalene		mg kg ⁻¹		mg kg ⁻¹		mg kg ⁻¹		mg kg ⁻¹		mg kg ⁻¹		mg kg ⁻¹	
Acenaphthylene		mg kg ⁻¹		mg kg ⁻¹		mg kg ⁻¹		mg kg ⁻¹		mg kg ⁻¹		mg kg ⁻¹	
Acenaphthene		mg kg ⁻¹		mg kg ⁻¹		mg kg ⁻¹		mg kg ⁻¹		mg kg ⁻¹		mg kg ⁻¹	
Fluorene		mg kg ⁻¹		mg kg ⁻¹		mg kg ⁻¹		mg kg ⁻¹		mg kg ⁻¹		mg kg ⁻¹	
Phenanthrene		mg kg ⁻¹		mg kg ⁻¹		mg kg ⁻¹		mg kg ⁻¹		mg kg ⁻¹		mg kg ⁻¹	
Anthracene		mg kg ⁻¹		mg kg ⁻¹		mg kg ⁻¹		mg kg ⁻¹		mg kg ⁻¹		mg kg ⁻¹	
Fluoranthene		mg kg ⁻¹		mg kg ⁻¹		mg kg ⁻¹		mg kg ⁻¹		mg kg ⁻¹		mg kg ⁻¹	
Pyrene		mg kg ⁻¹		mg kg ⁻¹		mg kg ⁻¹		mg kg ⁻¹		mg kg ⁻¹		mg kg ⁻¹	
Benzo[a]anthracene		mg kg ⁻¹		mg kg ⁻¹		mg kg ⁻¹		mg kg ⁻¹		mg kg ⁻¹		mg kg ⁻¹	
Chrysene		mg kg ⁻¹		mg kg ⁻¹		mg kg ⁻¹		mg kg ⁻¹		mg kg ⁻¹		mg kg ⁻¹	
Benzo[b]fluoranthene		mg kg ⁻¹		mg kg ⁻¹		mg kg ⁻¹		mg kg ⁻¹		mg kg ⁻¹		mg kg ⁻¹	

* Accreditation status

This report should be interpreted in consultation with the notice on the accompanying cover page

Column page 2

Report page 1 of 2

LIMS sample ID range A148406 to A148410

Results of analysis of 15 samples
received 28 March 2013

13052 - Thorley Drive, Cheadle

FAO Mark Gill

Login Batch No

Chemtest LIMS ID

Sample ID

Sample No

Sampling Date

Depth

Matrix

SOP1 Determinand

CAS No.

Units

Method

Result

Comment

Reference

Standard

Recovery

Stability

Interference

Blank

Control

Check

Signature

Date

Time

Location

Instrument

Software

Version

Operator

Reviewer

Approver

Signature

Date

Time

Location

Instrument

Software

Version

Operator

Reviewer

Approver

Signature

Date

Time

Location

226728

A148408

BH2

D2

25/3/2013

1.5m

SOIL

6.9

M

mg kg⁻¹

57125

2300

Cyanide (total)

7440428

2120

Boron (hot water soluble)

14808798

2450

Sulfate (2:1 water soluble) as SO4

7440382

2450

Arsenic

7440439

2450

Cadmium

7440473

2450

Chromium

7440508

2450

Copper

7439976

2450

Mercury

7440020

2450

Nickel

7439921

2450

Lead

7782492

2450

Selenium

7440686

226728

A148409

BH9

D2

25/3/2013

2.5m

SOIL

7.6

M

mg kg⁻¹

6.5

2300

Cyanide (total)

7440428

2120

Boron (hot water soluble)

14808798

2450

Sulfate (2:1 water soluble) as SO4

7440382

2450

Arsenic

7440439

2450

Cadmium

7440473

2450

Chromium

7440508

2450

Copper

7439976

2450

Mercury

7440020

2450

Nickel

7439921

2450

Lead

7782492

2450

Selenium

7440686

226728

A148410

BH11

D3

25/3/2013

1.6m

SOIL

<0.01

M

mg kg⁻¹

<0.01

2300

Cyanide (total)

7440428

2120

Boron (hot water soluble)

14808798

2450

Sulfate (2:1 water soluble) as SO4

7440382

2450

Arsenic

7440439

2450

Cadmium

7440473

2450

Chromium

7440508

2450

Copper

7439976

2450

Mercury

7440020

2450

Nickel

7439921

2450

Lead

7782492

2450

Selenium

7440686

226728

A148409

BH9

D2

25/3/2013

2.5m

SOIL

7.6

M

mg kg⁻¹

6.5

2300

Cyanide (total)

7440428

2120

Boron (hot water soluble)

14808798

2450

Sulfate (2:1 water soluble) as SO4

7440382

2450

Arsenic

7440439

2450

Cadmium

7440473

2450

Chromium

7440508

2450

Copper

7439976

2450

Mercury

7440020

2450

Nickel

7439921

2450

Lead

7782492

2450

Selenium

7440686

226728

A148410

BH11

D3

25/3/2013

1.6m

SOIL

<0.01

M

mg kg⁻¹

<0.01

2300

Cyanide (total)

7440428

2120

Boron (hot water soluble)

14808798

2450

Sulfate (2:1 water soluble) as SO4

7440382

2450

Arsenic

7440439

2450

Cadmium

7440473

2450

Chromium

7440508

2450

Copper

7439976

2450

Mercury

7440020

2450

Nickel

7439921

2450

Lead

7782492

2450

Selenium

7440686

226728

A148409

BH9

D2

25/3/2013

2.5m

SOIL

7.6

M

mg kg⁻¹

6.5

2300

Cyanide (total)

7440428

2120

Boron (hot water soluble)

14808798

2450

Sulfate (2:1 water soluble) as SO4

7440382

2450

Arsenic

7440439

2450

Cadmium

7440473

2450

LABORATORY TEST REPORT

Results of analysis of 15 samples
received 28 March 2013

Report Date
09 April 2013

13052 - Thorley Drive, Cheadle

FAO Mark Gill

226728

	A148396	A148397	A148398	A148399	A148400	A148401
	BH1	BH2	BH3	BH4	BH5	BH5
	D1	D1	D1	D1	D1	D1
	25/3/2013	25/3/2013	25/3/2013	25/3/2013	25/3/2013	25/3/2013
	0.4m	0.4m	0.4m	0.4m	0.3m	0.4m
	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
2700 Benzo[k]fluoranthene	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo[a]pyrene	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibenzo[a,h]anthracene	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Indeno[1,2,3-cd]pyrene	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo[g,h,i]perylene	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Total (of 16) PAHs	< 2	< 2	< 2	< 2	< 2	< 2
2920 Phenols (total)	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3

Report Date
09 April 2013

Results of analysis of 15 samples
received 28 March 2013

13052 - Thorley Drive, Cheadle

FAO Mark Gill

		226728					
		A148402	A148403	A148404	A148405	A148406	A148407
2700	Benzokjfluoranthene	BH7	BH8	BH9	BH10	BH11	BH12
		D1	D1	D1	D1	D1	D1
		25/3/2013	25/3/2013	25/3/2013	25/3/2013	25/3/2013	25/3/2013
		0.3m	0.2m	0.3m	0.4m	0.3m	0.2m
		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
2920	Phenols (total)	0.47	0.21	<0.1	0.48	0.17	0.65
		mg kg ⁻¹	mg kg ⁻¹	mg kg ⁻¹	mg kg ⁻¹	mg kg ⁻¹	mg kg ⁻¹
		207089	50328	53703	193395	191242	
		M	M	M	M	M	M

LABORATORY TEST REPORT

Report Date
09 April 2013

Results of analysis of 15 samples
received 28 March 2013

13052 - Thorley Drive, Cheadle

FAO Mark Gill

		226728		A148408		A148409		A148410	
		BH2		BH9		BH11			
		D2		D2		D3			
		25/3/2013		25/3/2013		25/3/2013			
		1.5m		2.5m		1.6m			
		SOIL		SOIL		SOIL			
2700	Benzo[k]fluoranthene	207089	mg kg ⁻¹	M					
	Benzo[a]pyrene	50328	mg kg ⁻¹	M					
	Dibenz[a,h]anthracene	53703	mg kg ⁻¹	M					
	Indeno[1,2,3-cd]pyrene	193395	mg kg ⁻¹	M					
	Benzo[g,h,i]perylene	191242	mg kg ⁻¹	M					
	Total (of 16) PAHs		mg kg ⁻¹	M					
2920	Phenols (total)		mg kg ⁻¹	N					

APPENDIX G
GEOTECHNICAL TEST RESULTS

Determination of Moisture Content and Atterberg Limits

Client: Georisk Management
 Client Address: Suit F3 Summit Point
 Summit Crescent Industrial Estate
 Smethwick, West Midlands
 Postcode: B66 1BT

Report No: 50171620/13/01
 Batch Number: DAM0040615

Client Reference 13052
 Sampled by: Client
 Date Sampled: Not Advised
 Date Received: 28.03.13
 Tested From: 05.04.13-09.04.13
 Sample Type: Disturbed

Site: Thorley Drive Cheadle

Test Results:

Laboratory Reference	Location	Depth (m)	Description	Moisture Content (%)	Liquid Limit	Plastic Limit	Plasticity Index	% Passing 425µm (Estimate)
I5181379	BH1	0.90	Firm Grey Orange CLAY	30	47	25	22	100
I5181380	BH1	1.80	Firm Grey Orange CLAY	21	48	24	24	100
I5181381	BH4	0.90	Red CLAY with mudstone	19	35	20	15	100
I5181382	BH4	1.40	Red CLAY with mudstone	15	36	19	17	100
I5181383	BH5	1.70	Brown Mudstone	11	40	19	21	100
I5181384	BH6	1.40	Firm Grey Brown CLAY	18	35	18	17	100

Sample Preparation: As Received
 * Washed over 425µm BS Test Sieve
 ** Estimated % passing 425µm

Notified that the laboratory testing was carried out in accordance with BS 1377-2: 1990: Method 3.2, 4.4 and 5

Page: 1 of 1
 Date Reported: 15.04.13

Signed

D. Berrill

[] M. Carr - Section Manager
 [✓] D. Berrill - Laboratory Manager

For and on behalf of Environmental Scientifics Group

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Determination of Moisture Content and Atterberg Limits

Client: Georisk Management
 Client Address: Suit F3 Summit Point
 Summit Crescent Industrial Estate
 Smethwick, West Midlands
 Postcode: B66 1BT

Report No: 50171620/13/02
 Batch Number: DAM0040615

Client Reference 13052
 Sampled by: Client
 Date Sampled: Not Advised
 Date Received: 28.03.13
 Tested From: 05.04.13-09.04.13
 Sample Type: Disturbed

Site: Thorley Drive Cheadle

Results:

Laboratory Reference	Location	Depth (m)	Description	Moisture Content (%)	Liquid Limit	Plastic Limit	Plasticity Index	% Passing 425µm (Estimate)
I5181385	BH7	0.90	Firm Grey Brown CLAY	40	72	27	45	100
I5181386	BH7	1.60	Firm Brown CLAY with Mudstone	17	65	26	39	100
I5181387	BH8	0.90	Brown Grey CLAY with Mudstone	17	40	18	22	100
I5181388	BH8	2.80	Brown, Orange, Black Sandy CLAY with Mudstone	49	59	35	24	100
I5181389	BH11	2.70	Soft and Firm Grey/Brown Mottled CLAY	25	48	25	23	100
I5181390	BH12	1.40	Black CLAY with Mudstone	21	77	29	48	100

Sample Preparation: As Received
 * Washed over 425µm BS Test Sieve
 ** Estimated % passing 425µm

Notified that the laboratory testing was carried out in accordance with BS 1377-2: 1990; Method 3.2, 4.4 and 5

Page: 1 of 1
 Date Reported: 15.04.13

Signed

D. Berrill

[] M. Carr - Section Manager
 [✓] D. Berrill - Laboratory Manager

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APPENDIX H
CIEH STATISTICAL CALCULATION SHEETS