

Information from the Cheshire Brine Subsidence Compensation Board

The property lies outside the Cheshire Brine Compensation District.

Additional Remarks

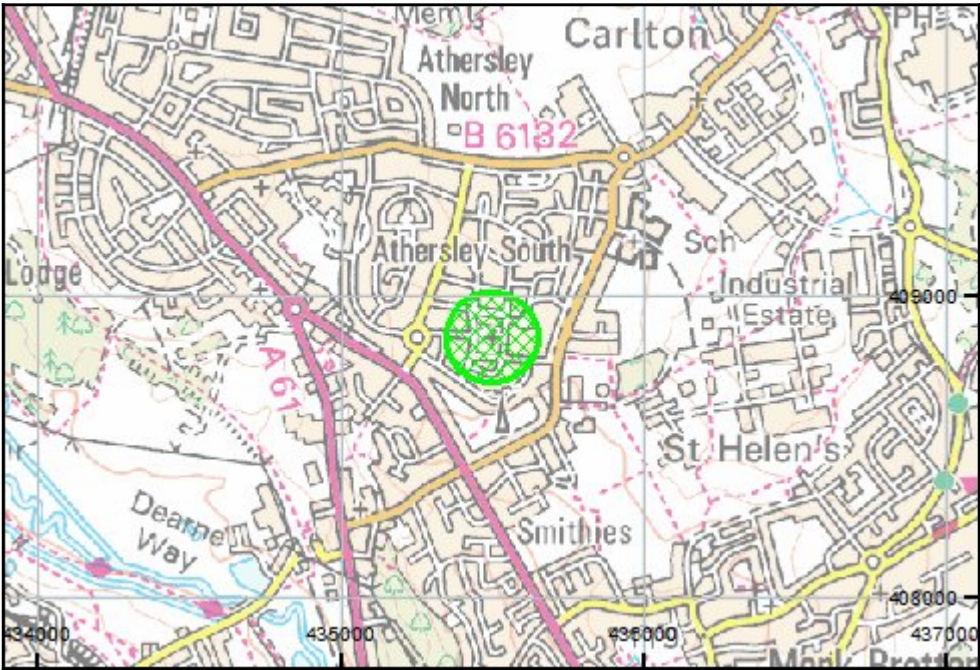
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Issued by:	The Coal Authority, 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG
Tax Point Date:	08 October 2013
Issued to:	MET ENGINEERS LTD SOUTHGATE HOUSE PONTEFRACT ROAD LEEDS LS10 1SW
Property Search for:	9 BAKEWELL ROAD, BARNSELEY, SOUTH YORKSHIRE, S71 3SH
Reference Number:	51000388340001
Date of Issue:	08 October 2013
Cost:	£59.00
VAT @ 20%:	£11.80
Total Received:	£70.80
VAT Registration	598 5850 68

Location map



Approximate position
of property

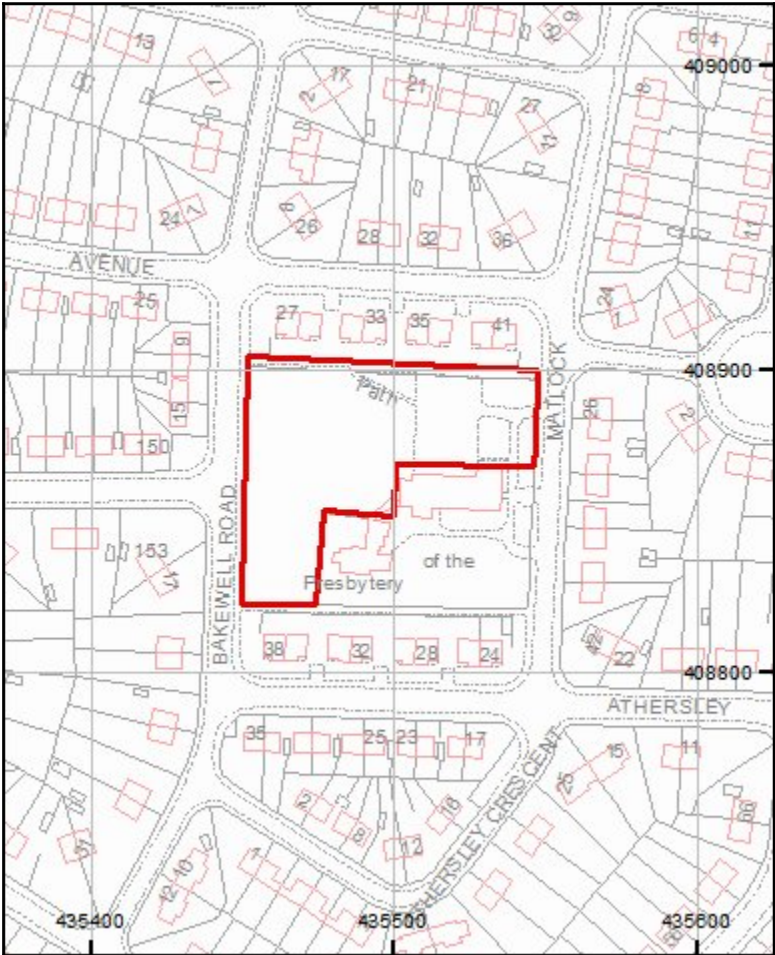


Enquiry boundary

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Key

Approximate position of enquiry
boundary shown



Appendix III

Trial Hole Location Plan

Appendix IV

Trial Pit Logs

MET Engineers Ltd

Southgate House, Pontefract Road,
Leeds, W. Yorkshire, LS10 1SW
Tel: 0113 200 8900 Fax: 0113 200 8901
Web: www.metengineers.com



Exploratory Hole Ref

TP01

Project No.	10035/5063	Logged by:	Matthew Young
Project Title	Matlock Road, Barnsley, S71 3SH	Date:	14/10/2013
Client	Equity Housing Group	Level (mAoD):	93.000
		Co-ords:	E435488, N408873
		Method:	Trial Pits

Strata Description	Legend	Level (mAoD)	Depth (m)	Water Strike	Sample / Test		Notes
					Depth (m)	Type	
Grass / TOPSOIL (Dark Brown)		92.900	0.10				
MADE GROUND - Brick fragments crushed up in a soily brown/red matrix		92.300	0.70		0.5	T + J J + V	
SANDSTONE cobbles in a orangey cream sandy matrix		92.000	1.00		0.8	BB	
Orange SANDSTONE recovered as gravels		91.800	1.20				
Hole Terminated							

Notes Ground Water: None Encountered Stability: Stable Weather: Rain Pit Dimensions: 1.2x2.0m	Sample Codes: D - Disturbed T - Tub J - Jar V - Vial U - U38 Tube	Test Codes: SVT - Shear vane DCP - Dynamic Cone
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Exploratory Hole Ref

TP01

Project No
Project Title
Client

10035/5063
Matlock Road, Barnsley, S71 3SH
Equity Housing Group

Logged by:
Date:
Level (mAoD):
Co-ords:
Method:

Matthew Young
14/10/2013
93.000
E435488, N408873
Trial Pits



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Exploratory Hole Ref

TP02

Project No.	10035/5063	Logged by:	Matthew Young
Project Title	Matlock Road, Barnsley, S71 3SH	Date:	14/10/2013
Client	Equity Housing Group	Level (mAoD):	93.000
		Co-ords:	E435488, N408873
		Method:	Trial Pits

Strata Description	Legend	Level (mAoD)	Depth (m)	Water Strike	Sample / Test		Notes
					Depth (m)	Type	
Grass / TOPSOIL (Dark Brown)		92.900	0.10				
MADE GROUND - Brick fragments crushed up in a soily brown/red matrix with a couple of whole bricks		92.500	0.50		0.4	T + J	
Stiff orangey brown sandy CLAY		91.700	1.30				
Weathered Orange SANDSTONE		91.500	1.50				
Hole Terminated							

Notes Ground Water: None Encountered Stability: Stable Weather: Rain Pit Dimensions: 1.5x2.0m	Sample Codes: D - Disturbed T - Tub J - Jar V - Vial U - U38 Tube	Test Codes: SVT - Shear vane DCP - Dynamic Cone
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Exploratory Hole Ref

TP02

Project No
Project Title
Client

10035/5063
Matlock Road, Barnsley, S71 3SH
Equity Housing Group

Logged by:
Date:
Level (mAoD):
Co-ords:
Method:

Matthew Young
14/10/2013
93.000
E435488, N408873
Trial Pits



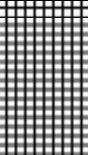
Exploratory Hole Ref

TP03 |

Project No.
Project Title
Client

10035/5063
Matlock Road, Barnsley, S71 3SH
Equity Housing Group

Logged by:	Matthew Young
Date:	14/10/2013
Level (mAoD):	93.000
Co-ords:	E435488, N408873
Method:	Trial Pits

Strata Description	Legend	Level (mAoD)	Depth (m)	Water Strike	Sample / Test		Notes
					Depth (m)	Type	
MADE GROUND Grass / Topsoil (Dark Brown)		92.600	0.40				
SANDSTONE cobbles in a orangey cream sandy matrix		92.300	0.70		0.5	T + J	
Orange SANDSTONE recovered as gravels							
Hole Terminated due to Mechanical Excavator unable							

Notes

Ground Water:	None Encountered
Stability:	Stable
Weather:	Rain
Pit Dimensions:	0.7x2.0m

Sample

Sample Codes:
D - Disturbed
T - Tub
J - Jar
V - Vial
U - U38 Tube

Test

Codes:
SVT - Shear vane
DCP - Dynamic Cone

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Exploratory Hole Ref

TP03

Project No
Project Title
Client

10035/5063
Matlock Road, Barnsley, S71 3SH
Equity Housing Group

Logged by: Matthew Young
Date: 14/10/2013
Level (mAoD): 93.000
Co-ords: E435488, N408873
Method: Trial Pits



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Exploratory Hole Ref

TP04

Project No.	10035/5063	Logged by:	Matthew Young
Project Title	Matlock Road, Barnsley, S71 3SH	Date:	14/10/2013
Client	Equity Housing Group	Level (mAoD):	93.000
		Co-ords:	E435488, N408873
		Method:	Trial Pits

Strata Description	Legend	Level (mAoD)	Depth (m)	Water Strike	Sample / Test		Notes
					Depth (m)	Type	
Grass / Topsoil MADE GROUND (Dark Brown)		92.700	0.30				
MADE GROUND - Light brown sandy soily matrix		92.400	0.60		0.4	T + J	
SANDSTONE cobbles in a orangey cream sandy matrix		92.200	0.80				
Grey/orange highly weathered stiff CLAY /mudstone		91.500	1.50		1.0	BB	
Weathered Orange SANDSTONE		91.400	1.60				
Hole Terminated							

Notes

Ground Water: None Encountered
Stability: Stable
Weather: Rain
Pit Dimensions: 1.6x2.0m

Sample

Codes:
D - Disturbed
T - Tub
J - Jar
V - Vial
U - U38 Tube

Test

Codes:
SVT - Shear vane
DCP - Dynamic Cone

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Exploratory Hole Ref

TP04

Project No
Project Title
Client

10035/5063
Matlock Road, Barnsley, S71 3SH
Equity Housing Group

Logged by: Matthew Young
Date: 14/10/2013
Level (mAoD): 93.000
Co-ords: E435488, N408873
Method: Trial Pits



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Exploratory Hole Ref

TP05

Project No.	10035/5063	Logged by:	Matthew Young
Project Title	Matlock Road, Barnsley, S71 3SH	Date:	14/10/2013
Client	Equity Housing Group	Level (mAoD):	93.000
		Co-ords:	E435488, N408873
		Method:	Trial Pits

Strata Description	Legend	Level (mAoD)	Depth (m)	Water Strike	Sample / Test		Notes
					Depth (m)	Type	
Grass / TOPSOIL (Dark Brown)		92.900	0.10				
MADE GROUND - Brick fragments / cobbles in a dark brown silty matrix		92.500	0.50		0.5	T + J	
Orangey brown SAND		92.300	0.70				
Grey/orange highly weathered stiff CLAY		91.100	1.90				
Weathered Orange SANDSTONE		90.900	2.10				
Hole Terminated							

Notes Ground Water: None Encountered Stability: Stable Weather: Rain Pit Dimensions: 2.1x2.0m	Sample Codes: D - Disturbed T - Tub J - Jar V - Vial U - U38 Tube	Test Codes: SVT - Shear vane DCP - Dynamic Cone
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Exploratory Hole Ref

TP05

Project No
Project Title
Client

10035/5063
Matlock Road, Barnsley, S71 3SH
Equity Housing Group

Logged by: Matthew Young
Date: 14/10/2013
Level (mAoD): 93.000
Co-ords: E435488, N408873
Method: Trial Pits



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Web: www.metengineers.com



Exploratory Hole Ref

TP06

Project No.	10035/5063	Logged by:	Matthew Young
Project Title	Matlock Road, Barnsley, S71 3SH	Date:	14/10/2013
Client	Equity Housing Group	Level (mAoD):	93.000
		Co-ords:	E435488, N408873
		Method:	Trial Pits

Strata Description	Legend	Level (mAoD)	Depth (m)	Water Strike	Sample / Test		Notes
					Depth (m)	Type	
Grass / TOPSOIL (Dark Brown)		92.900	0.10				
MADE GROUND - Brick fragments / cobbles in a dark brown silty matrix		92.400	0.60		0.55	T + J J + V	
Orangey brown SAND		92.250	0.75				
Grey/orange highly weathered stiff CLAY		91.600	1.40		1.0	BB	
Weathered Orange SANDSTONE		91.500	1.50				
Hole Terminated							

Notes

Ground Water: None Encountered
Stability: Stable
Weather: Rain
Pit Dimensions: 1.5x2.0m

Sample Codes:
D - Disturbed
T - Tub
J - Jar
V - Vial
U - U38 Tube

Test Codes:
SVT - Shear vane
DCP - Dynamic Cone

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Exploratory Hole Ref

TP06

Project No
Project Title
Client

10035/5063
Matlock Road, Barnsley, S71 3SH
Equity Housing Group

Logged by: Matthew Young
Date: 14/10/2013
Level (mAoD): 93.000
Co-ords: E435488, N408873
Method: Trial Pits



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Exploratory Hole Ref

TP07

Project No.	10035/5063	Logged by:	Matthew Young
Project Title	Matlock Road, Barnsley, S71 3SH	Date:	14/10/2013
Client	Equity Housing Group	Level (mAoD):	93.000
		Co-ords:	E435488, N408873
		Method:	Trial Pits

Strata Description	Legend	Level (mAoD)	Depth (m)	Water Strike	Sample / Test		Notes
					Depth (m)	Type	
Grass / TOPSOIL (Dark Brown)		92.900	0.10				
MADE GROUND - Full bricks / brick fragments in a dark brown silty matrix		92.400	0.60		0.4	T + J	
Brown/orange sandy stiff CLAY		92.200	0.80				
Grey/orange highly weathered stiff CLAY		91.300	1.70				
Weathered Orange SANDSTONE		91.200	1.80				
Hole Terminated							

Notes

Ground Water: None Encountered
Stability: Stable
Weather: Rain
Pit Dimensions: 1.8x2.0m

Sample Codes:
D - Disturbed
T - Tub
J - Jar
V - Vial
U - U38 Tube

Test Codes:
SVT - Shear vane
DCP - Dynamic Cone

MET Engineers Ltd

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Leeds, W. Yorkshire, LS10 1SW
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Web: www.metengineers.com



Exploratory Hole Ref

TP07

Project No
Project Title
Client

10035/5063
Matlock Road, Barnsley, S71 3SH
Equity Housing Group

Logged by: Matthew Young
Date: 14/10/2013
Level (mAoD): 93.000
Co-ords: E435488, N408873
Method: Trial Pits



MET Engineers Ltd

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Leeds, W. Yorkshire, LS10 1SW
Tel: 0113 200 8900 Fax: 0113 200 8901
Web: www.metengineers.com



Exploratory Hole Ref

TP08

Project No.	10035/5063	Logged by:	Matthew Young
Project Title	Matlock Road, Barnsley, S71 3SH	Date:	14/10/2013
Client	Equity Housing Group	Level (mAoD):	93.000
		Co-ords:	E435488, N408873
		Method:	Trial Pits

Strata Description	Legend	Level (mAoD)	Depth (m)	Water Strike	Sample / Test		Notes
					Depth (m)	Type	
Grass / TOPSOIL (Dark Brown)		92.900	0.10				
MADE GROUND - Crushed brick fragments in a dark brown silty matrix		92.500	0.50		0.4	T + J	
Grey/orange highly weathered stiff CLAY			1.30				
Weathered Orange SANDSTONE			1.40				
Hole Terminated							

Notes Ground Water: None Encountered Stability: Stable Weather: Rain Pit Dimensions: 1.4x2.0m	Sample Codes: D - Disturbed T - Tub J - Jar V - Vial U - U38 Tube	Test Codes: SVT - Shear vane DCP - Dynamic Cone
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MET Engineers Ltd

Southgate House, Pontefract Road,
Leeds, W. Yorkshire, LS10 1SW
Tel: 0113 200 8900 Fax: 0113 200 8901
Web: www.metengineers.com



Exploratory Hole Ref

TP08

Project No
Project Title
Client

10035/5063
Matlock Road, Barnsley, S71 3SH
Equity Housing Group

Logged by: Matthew Young
Date: 14/10/2013
Level (mAoD): 93.000
Co-ords: E435488, N408873
Method: Trial Pits



Appendix V

Borehole Logs

SWWS

- GEOTECHNICAL
- ENVIRONMENTAL
- SITE INVESTIGATIONS

Cloverdale
Haugh Head
Wooler
NE71 6QS

DAILY RECORD SHEET

CLIENT **MET ENGINEERS**
LOCATION **MATLOCK ROAD BARNSELEY**
JOB No. **10035/5063**
BOREHOLE No. **01**
RIG TYPE **C130**
DATE **MON 14TH OCT 2014**
OPERATOR **S. WOOD**

STRATA DISCRIPTION		STRATA BASE (m)
	START DEPTH	G.L
OVERBROWN GRASS OVERLAYING DARK BROWN		
SANDY CLAYEY GRAVEL/TOPSOIL, ROOTS		0.175
COMPACT DARK BROWN SANDY, BRICK CONCRETE FRAGMENTS, SOME BRICK RUBBLE MADE GROUND.		0.500
WESTERN COARSE LIGHT BROWN, ORANGE BROWN, SANDSTONE RECOVERED AS GRAVEL		
Borehole Complete ~~Incomplete~~		1.885

TESTING: SPT(s) CPT(c) U100(u) VANE TEST(v)										
Type No.	m		U Blows	0 to 75	75 to 150	150 to 225	225 to 300	300 to 375	375 to 450	V Reading
S	1.00	1.45		5	15	15	11	11	14	
S	1.75	1.840		21	4					
S	1.840	1.885		50						

SAMPLES:- BULK (B) DISTURBED (D)				
Type No.	m		Sampler Used (mm)	Recovery (mm)
G.L	1.00		PIT/101	
1.00	1.75		79 REFUSED	

CASING		
Size (mm)	From	To
115	G.L-	1.00

INSTALLATION				
Type	Size	Depth (m)	Seal Top (m)	Seal Bottom (m)
GAS/WATER	63mm	1.75	0500-0100	

CORING		
Ground	From (m)	To (m)

WATER				
Observation	Depth	Sealed	In Flow	Casing
NO WATER				1.00
OBSERVATION DURING OR ON COMPLETION OF BH.				

REMARKS
ARISING DISPOSED ON SITE.

SIGNED DRILLER 

CLIENT

SWWS

- GEOTECHNICAL
- ENVIRONMENTAL
- SITE INVESTIGATIONS

Cloverdale
Haugh Head
Wooler
NE71 6QS

DAILY RECORD SHEET

CLIENT **MET ENGINEERS**
LOCATION **INSTILL ROAD, BARNESLEY**
JOB No. **10028/5063**
BOREHOLE No. **02**
RIG TYPE **C130**
DATE **MON 14TH OCT. 2013**
OPERATOR **S. WOOD**

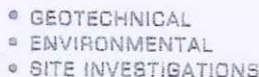
STRATA DISCRIPTION		STRATA BASE (m)
	START DEPTH	6.1
OVERGROWN GRASS OVERLIES DARK BROWN		
SANDY CLAYEY GRAVEL, TOPSOIL, ROOTS		
SOME BRICK FRAGMENTS TO 0.150.		0.450
STIFF ORANGE BROWN, GREY MOTTLED SANDY CLAY, SOME SANDSTONE FRAGMENTS		1.00
STIFF LIGHT BROWN, GREY MOTTLED FRIABLE CLAY, SOME SANDSTONE FRAGMENTS.		1.100
WEATHERED ORANGE BROWN, LIGHT BROWN COARSE SANDSTONE.		
Borehole Complete / Incomplete		2.145
CASING		
Size (mm)	From	To
115	6.1	
INSTALLATION		
Type	Size	Depth (m)
CORING		
Ground	From (m)	To (m)

TESTING: SPT(s) CPT(c) U100(u) VANE TEST(v)										
Type No.	m		U Blows	0 to 75	75 to 150	150 to 225	225 to 300	300 to 375	375 to 450	V Reading
S 1.00	1.45		3	8	11	12	17	19		
S 1.70	2.145		6	7	10	13	15	17		
SAMPLES: - BULK (B) DISTURBED (D)										
Type No.	m		Sampler Used (mm)		Recovery (mm)					
6.1	1.00		101							
1.00	1.70		79 Refused							
WATER										
Observation		Depth	Sealed	In Flow	Casing					
NO WATER OBSERVED					1.00					
DURING OR ON COMPLETION OF BJ.										
REMARKS										
BJ BACKFILLED WITH BRISWICKS.										

SIGNED
DRILLER

CLIENT

[illegible]

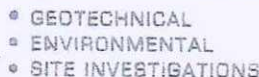


Cloverdale
Haugh Head
Wooler
NE71 6QS

CLIENT **MET ENGINEERS**
LOCATION **MISTWOL ROAD - BARNESLEY**
JOB No. **10035/5063**
BOREHOLE No. **04**
RIG TYPE **C130**
DATE **MON 14TH OCT 2014**
OPERATOR **S. WOOD**

DAILY RECORD SHEET

[illegible]



Cloverdale
Haugh Head
Wooler
NE71 6QS

CLIENT MET ENGINEERS
LOCATION MASTLOUL ROAD - BARNESLEY
JOB No. 10035/3063
BOREHOLE No. 05
RIG TYPE C130
DATE MON. 14TH OCT 2013
OPERATOR S. WOOD

DAILY RECORD SHEET

STRATA DESCRIPTION		START DEPTH	STRATA BASE (m)	TESTING: SPT(s) CPT(c) U100(u) VANE TEST(v)								
		G.L.		Type No.	m From To	U Blows	SPT 75 to 150	CPT 150 to 225	U100 225 to 300	Vane 300 to 375	Vane 375 to 450	v Reading
OVERGROWN GRASS OVERLAIN DARK BROWN SANDY GRAVEL, TOP SOIL, ROOTS.		0.550										
STIFF ORANGE BROWN, GREY MOTTLED SANDY CLAY, SOME SANDSTONE FRAGMENTS		1.000										
STIFF LIGHT BROWN, GREY MOTTLED FRIABLE, SOME SANDSTONE FRAGMENTS		2.050										
WEATHERED ORANGE BROWN, LIGHT BROWN COARSE SANDSTONE												
1 min = 0.009 2 min = 0.015 3 min = 0.020 4 min = 0.025 5 min = 0.031 10 min = 0.052 15 min = 0.073 20 min = 0.092 25 min = 0.104 30 min = 0.115												
CASING												
Size (mm)		From	To									
115		G.L.	1.00									
INSTALLATION												
Type	Size	Depth (m)	Seal Top (m)	Seal Bottom (m)								
CORING												
Ground		From (m)	To (m)									
WATER												
Observation	Depth	Sealed	In Flow	Casing								
NO WATER OBSERVED DURING CORON COMPLETION OF BW.				1.00								
REMARKS												
BW BACKFILLED WITH BRISINGS.												

Appendix VI

Soil Sample Testing Results

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 13/04884
Issue Number: 1

Date: 29 October, 2013

Client: MET Engineers Ltd
Southgate House
Pontefract Road
Leeds
LS10 1SW

Project Manager: Matthew Young
Project Name: Acanthus WSM/ Matlock Road, Barnsley
Project Ref: 10035/5063
Order No: 284-2013-MY
Date Samples Received: 16/10/13
Date Instructions Received: 16/10/13
Date Analysis Completed: 28/10/13

Prepared by:



Melanie Marshall
Laboratory Coordinator

Approved by:



Carolyn Field
Client Service Manager

Envirolab Job Number: 13/04884

Client Project Name: Acanthus WSM/ Matlock Road, Barnsley

Client Project Ref: 10035/5063

Lab Sample ID	13/04884/1	13/04884/2	13/04884/3	13/04884/4	13/04884/5	13/04884/6	13/04884/7	13/04884/8	Units	Method ref
Client Sample No										
Client Sample ID	TP01	TP01	TP02	TP03	TP04	TP04	TP05	TP06		
Depth to Top	0.50	0.80	0.40	0.50	0.40	1.00	0.50	0.55		
Depth To Bottom										
Date Sampled	14-Oct-13	14-Oct-13	14-Oct-13	14-Oct-13	14-Oct-13	14-Oct-13	14-Oct-13	14-Oct-13		
Sample Type	Soil - D	Soil - D	Soil - D	Soil - D	Soil - D	Soil - D	Soil - D	Soil - D		
Sample Matrix Code	5ABC	5	5A	6A	4E	5	4A	6A		
% Stones >10mm _A [#]	10.7	<0.1	10.1	8.5	<0.1	<0.1	<0.1	<0.1	% w/w	A-T-044
pH _D ^{M#}	-	7.74	-	-	-	4.94	-	-	pH	A-T-031s
Sulphate (water sol 2:1) _D ^{M#}	-	0.05	-	-	-	0.05	-	-	g/l	A-T-026s
Arsenic _D [#]	10	-	15	7	9	-	6	5	mg/kg	A-T-024
Cadmium _D ^{M#}	0.5	-	0.6	0.8	0.5	-	<0.5	<0.5	mg/kg	A-T-024
Copper _D ^{M#}	30	-	30	14	16	-	12	11	mg/kg	A-T-024
Chromium _D [#]	21	-	36	25	19	-	19	15	mg/kg	A-T-024
Lead _D ^{M#}	46	-	60	30	35	-	26	29	mg/kg	A-T-024
Mercury _D	0.19	-	0.38	<0.17	<0.17	-	<0.17	<0.17	mg/kg	A-T-024
Nickel _D [#]	19	-	24	16	13	-	11	10	mg/kg	A-T-024
Selenium _D [#]	<1	-	<1	2	<1	-	<1	<1	mg/kg	A-T-024
Zinc _D ^{M#}	49	-	41	59	51	-	42	28	mg/kg	A-T-024
% Moisture BS1377 1990 pt2 cl 3.2 (NMC Natural Moisture Content) [#]	-	-	-	-	-	Appended	-	-		Subcon
Atterburg (Plasticity) 4 Point Liquid+Plast Limit BS1377 1990 pt2 cl 4.4,5.3+5.4 [#]	-	-	-	-	-	Appended	-	-		Subcon
Asbestos in Soil (inc. matrix)										
Asbestos in soil _D [#]	NAD	-	-	-	-	-	-	-		A-T-045
Asbestos Matrix (visual) _A	N/A	-	-	-	-	-	-	-		Visual
Asbestos Matrix (microscope) _D	N/A	-	-	-	-	-	-	-		A-T-045

Envirolab Job Number: 13/04884

Client Project Name: Acanthus WSM/ Matlock Road, Barnsley

Client Project Ref: 10035/5063

Lab Sample ID	13/04884/1	13/04884/2	13/04884/3	13/04884/4	13/04884/5	13/04884/6	13/04884/7	13/04884/8	Units	Method ref
Client Sample No										
Client Sample ID	TP01	TP01	TP02	TP03	TP04	TP04	TP05	TP06		
Depth to Top	0.50	0.80	0.40	0.50	0.40	1.00	0.50	0.55		
Depth To Bottom										
Date Sampled	14-Oct-13	14-Oct-13	14-Oct-13	14-Oct-13	14-Oct-13	14-Oct-13	14-Oct-13	14-Oct-13		
Sample Type	Soil - D	Soil - D	Soil - D	Soil - D	Soil - D	Soil - D	Soil - D	Soil - D		
Sample Matrix Code	5ABC	5	5A	6A	4E	5	4A	6A		
PAH 16										
Acenaphthene _A ^{M#}	<0.01	-	<0.01	0.02	<0.01	-	0.02	<0.01	mg/kg	A-T-019s
Acenaphthylene _A ^{M#}	<0.01	-	<0.01	<0.01	<0.01	-	<0.01	<0.01	mg/kg	A-T-019s
Anthracene _A ^{M#}	0.03	-	<0.02	0.03	0.02	-	0.05	<0.02	mg/kg	A-T-019s
Benzo(a)anthracene _A ^{M#}	0.10	-	<0.04	0.19	0.09	-	0.14	<0.04	mg/kg	A-T-019s
Benzo(a)pyrene _A ^{M#}	0.14	-	<0.04	0.21	0.12	-	0.18	<0.04	mg/kg	A-T-019s
Benzo(b)fluoranthene _A ^{M#}	0.16	-	<0.05	0.26	0.12	-	0.24	<0.05	mg/kg	A-T-019s
Benzo(ghi)perylene _A ^{M#}	0.08	-	<0.05	0.12	0.06	-	0.10	<0.05	mg/kg	A-T-019s
Benzo(k)fluoranthene _A ^{M#}	<0.07	-	<0.07	0.09	<0.07	-	<0.07	<0.07	mg/kg	A-T-019s
Chrysene _A ^{M#}	0.11	-	<0.06	0.21	0.09	-	0.17	<0.06	mg/kg	A-T-019s
Dibenzo(ah)anthracene _A ^{M#}	<0.04	-	<0.04	<0.04	<0.04	-	<0.04	<0.04	mg/kg	A-T-019s
Fluoranthene _A ^{M#}	0.24	-	0.10	0.46	0.23	-	0.42	<0.08	mg/kg	A-T-019s
Fluorene _A ^{M#}	<0.01	-	<0.01	0.01	<0.01	-	0.01	<0.01	mg/kg	A-T-019s
Indeno(123-cd)pyrene _A ^{M#}	0.07	-	<0.03	0.10	0.06	-	0.08	<0.03	mg/kg	A-T-019s
Naphthalene _A ^{M#}	<0.03	-	<0.03	<0.03	<0.03	-	<0.03	<0.03	mg/kg	A-T-019s
Phenanthrene _A ^{M#}	0.14	-	0.08	0.23	0.10	-	0.23	<0.03	mg/kg	A-T-019s
Pyrene _A ^{M#}	0.20	-	<0.07	0.39	0.20	-	0.35	<0.07	mg/kg	A-T-019s
PAH (total 16) _A ^{M#}	1.27	-	0.18	2.33	1.09	-	1.99	<0.08	mg/kg	A-T-019s

Envirolab Job Number: 13/04884

Client Project Name: Acanthus WSM/ Matlock Road, Barnsley

Client Project Ref: 10035/5063

Lab Sample ID	13/04884/1	13/04884/2	13/04884/3	13/04884/4	13/04884/5	13/04884/6	13/04884/7	13/04884/8	Units	Method ref
Client Sample No										
Client Sample ID	TP01	TP01	TP02	TP03	TP04	TP04	TP05	TP06		
Depth to Top	0.50	0.80	0.40	0.50	0.40	1.00	0.50	0.55		
Depth To Bottom										
Date Sampled	14-Oct-13	14-Oct-13	14-Oct-13	14-Oct-13	14-Oct-13	14-Oct-13	14-Oct-13	14-Oct-13		
Sample Type	Soil - D	Soil - D	Soil - D	Soil - D	Soil - D	Soil - D	Soil - D	Soil - D		
Sample Matrix Code	5ABC	5	5A	6A	4E	5	4A	6A		
TPH CWG										
Ali >C5-C6 _A [#]	<0.01	-	-	-	-	-	-	<0.01	mg/kg	A-T-022s
Ali >C6-C8 _A [#]	<0.01	-	-	-	-	-	-	<0.01	mg/kg	A-T-022s
Ali >C8-C10 _A [#]	<0.01	-	-	-	-	-	-	<0.01	mg/kg	A-T-022s
Ali >C10-C12 _A [#]	<0.1	-	-	-	-	-	-	<0.1	mg/kg	A-T-023s
Ali >C12-C16 _A [#]	1.1	-	-	-	-	-	-	<0.1	mg/kg	A-T-023s
Ali >C16-C21 _A [#]	5.3	-	-	-	-	-	-	<0.1	mg/kg	A-T-023s
Ali >C21-C35 _A [#]	2.9	-	-	-	-	-	-	<0.1	mg/kg	A-T-023s
Total Aliphatics _A	9.3	-	-	-	-	-	-	<0.1	mg/kg	A-T-022+23s
Aro >C5-C7 _A [#]	<0.01	-	-	-	-	-	-	<0.01	mg/kg	A-T-022s
Aro >C7-C8 _A [#]	<0.01	-	-	-	-	-	-	<0.01	mg/kg	A-T-022s
Aro >C8-C9 _A [#]	<0.01	-	-	-	-	-	-	<0.01	mg/kg	A-T-022s
Aro >C9-C10 _A [#]	<0.01	-	-	-	-	-	-	<0.01	mg/kg	A-T-022s
Aro >C10-C12 _A [#]	0.3	-	-	-	-	-	-	<0.1	mg/kg	A-T-023s
Aro >C12-C16 _A [#]	2.1	-	-	-	-	-	-	<0.1	mg/kg	A-T-023s
Aro >C16-C21 _A [#]	6.3	-	-	-	-	-	-	<0.1	mg/kg	A-T-023s
Aro >C21-C35 _A [#]	2.4	-	-	-	-	-	-	<0.1	mg/kg	A-T-023s
Total Aromatics _A	11.1	-	-	-	-	-	-	<0.1	mg/kg	A-T-022+23s
TPH (Ali & Aro) _A	20.3	-	-	-	-	-	-	<0.1	mg/kg	A-T-022+23s
BTEX - Benzene _A [#]	<0.01	-	-	-	-	-	-	<0.01	mg/kg	A-T-022s
BTEX - Toluene _A [#]	<0.01	-	-	-	-	-	-	<0.01	mg/kg	A-T-022s
BTEX - Ethyl Benzene _A [#]	<0.01	-	-	-	-	-	-	<0.01	mg/kg	A-T-022s
BTEX - m & p Xylene _A [#]	<0.01	-	-	-	-	-	-	<0.01	mg/kg	A-T-022s
BTEX - o Xylene _A [#]	<0.01	-	-	-	-	-	-	<0.01	mg/kg	A-T-022s
MTBE _A [#]	<0.01	-	-	-	-	-	-	<0.01	mg/kg	A-T-022s
Mineral Oil (>C10-C35) _A	9.3	-	-	-	-	-	-	<0.1	mg/kg	A-T-023s

Envirolab Job Number: 13/04884

Client Project Name: Acanthus WSM/ Matlock Road, Barnsley

Client Project Ref: 10035/5063

Lab Sample ID	13/04884/9	13/04884/10	13/04884/11						Units	Method ref
Client Sample No										
Client Sample ID	TP06	TP07	TP08							
Depth to Top	1.00	0.40	0.40							
Depth To Bottom										
Date Sampled	14-Oct-13	14-Oct-13	14-Oct-13							
Sample Type	Soil - D	Soil - D	Soil - D							
Sample Matrix Code	5	6E	5							
% Stones >10mm _A [#]	<0.1	<0.1	<0.1						% w/w	A-T-044
pH _D ^{M#}	5.00	-	-						pH	A-T-031s
Sulphate (water sol 2:1) _D ^{M#}	0.04	-	-						g/l	A-T-026s
Arsenic _D [#]	-	20	10						mg/kg	A-T-024
Cadmium _D ^{M#}	-	0.9	0.9						mg/kg	A-T-024
Copper _D ^{M#}	-	48	16						mg/kg	A-T-024
Chromium _D [#]	-	35	20						mg/kg	A-T-024
Lead _D ^{M#}	-	48	27						mg/kg	A-T-024
Mercury _D	-	<0.17	<0.17						mg/kg	A-T-024
Nickel _D [#]	-	54	19						mg/kg	A-T-024
Selenium _D [#]	-	<1	<1						mg/kg	A-T-024
Zinc _D ^{M#}	-	125	34						mg/kg	A-T-024
% Moisture BS1377 1990 pt2 cl 3.2 (NMC Natural Moisture Content) [#]	Appended	-	-							Subcon
Atterburg (Plasticity) 4 Point Liquid+Plast Limit BS1377 1990 pt2 cl 4.4,5.3+5.4 [#]	Appended	-	-							Subcon
Asbestos in Soil (inc. matrix)										
Asbestos in soil _D [#]	-	NAD	-							A-T-045
Asbestos Matrix (visual) _A	-	N/A	-							Visual
Asbestos Matrix (microscope) _D	-	N/A	-							A-T-045

Envirolab Job Number: 13/04884

Client Project Name: Acanthus WSM/ Matlock Road, Barnsley

Client Project Ref: 10035/5063

Lab Sample ID	13/04884/9	13/04884/10	13/04884/11						Units	Method ref
Client Sample No										
Client Sample ID	TP06	TP07	TP08							
Depth to Top	1.00	0.40	0.40							
Depth To Bottom										
Date Sampled	14-Oct-13	14-Oct-13	14-Oct-13							
Sample Type	Soil - D	Soil - D	Soil - D							
Sample Matrix Code	5	6E	5							
PAH 16										
Acenaphthene _A ^{M#}	-	0.02	<0.01						mg/kg	A-T-019s
Acenaphthylene _A ^{M#}	-	<0.01	<0.01						mg/kg	A-T-019s
Anthracene _A ^{M#}	-	0.06	<0.02						mg/kg	A-T-019s
Benzo(a)anthracene _A ^{M#}	-	0.27	<0.04						mg/kg	A-T-019s
Benzo(a)pyrene _A ^{M#}	-	0.29	<0.04						mg/kg	A-T-019s
Benzo(b)fluoranthene _A ^{M#}	-	0.36	<0.05						mg/kg	A-T-019s
Benzo(ghi)perylene _A ^{M#}	-	0.15	<0.05						mg/kg	A-T-019s
Benzo(k)fluoranthene _A ^{M#}	-	0.15	<0.07						mg/kg	A-T-019s
Chrysene _A ^{M#}	-	0.27	<0.06						mg/kg	A-T-019s
Dibenzo(ah)anthracene _A ^{M#}	-	<0.04	<0.04						mg/kg	A-T-019s
Fluoranthene _A ^{M#}	-	0.67	<0.08						mg/kg	A-T-019s
Fluorene _A ^{M#}	-	0.01	<0.01						mg/kg	A-T-019s
Indeno(123-cd)pyrene _A ^{M#}	-	0.14	<0.03						mg/kg	A-T-019s
Naphthalene _A ^{M#}	-	<0.03	<0.03						mg/kg	A-T-019s
Phenanthrene _A ^{M#}	-	0.30	<0.03						mg/kg	A-T-019s
Pyrene _A ^{M#}	-	0.56	<0.07						mg/kg	A-T-019s
PAH (total 16) _A ^{M#}	-	3.24	<0.08						mg/kg	A-T-019s

REPORT NOTES

Notes - Soil analysis

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones >10mm are removed or excluded from the sample prior to analysis and reported results corrected to a whole sample basis. For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis.

Notes - General

Subscript "A" indicates analysis performed on the sample as received. "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve, unless asbestos is found to be present in which case all analysis is performed on the sample as received.

All analysis is performed on the dried and crushed sample for samples with Matrix Code 7 and this supercedes any "A" subscripts.

All analysis is performed on the sample as received for soil samples from outside the European Union and this supercedes any "D" subscripts.

Superscript "M" indicates method accredited to MCERTS.

For complex, multi-compound analysis, quality control results do not always fall within chart limits for every compound and we have criteria for reporting in these situations. If results are in italic font they are associated with such quality control failures and may be unreliable.

A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling.

TPH analysis of water by method A-T-007

Free and visible oils are excluded from the sample used for analysis so that the reported result represents the dissolved phase only.

Asbestos in soil

Asbestos in soil analysis is performed on an aliquot of the submitted sample and cannot guarantee to identify asbestos if present at low concentrations or as discrete fibres/fragments.

Quantification of asbestos is a 3 stage process including visual identification, hand picking and weighing and fibre counting by sedimentation/phase contrast optical microscopy if required. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres) quantification by sedimentation is performed.

Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used.

Predominant Matrix Codes:

1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER.

Samples with Matrix Code 7 are not predominantly a SAND/LOAM/CLAY mix and are not covered by our MCERTS accreditation.

Secondary Matrix Codes:

A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal,

E = contains roots/twigs.

IS indicates Insufficient sample for analysis.

NDP indicates No Determination Possible.

NAD indicates No Asbestos Detected.

N/A indicates Not Applicable.

Superscript # indicates method accredited to ISO 17025.

Analytical results reflect the quality of the sample at the time of analysis only. Opinions and interpretations expressed are outside the scope of our accreditation.

Please contact us if you need any further information.



STRUCTURAL SOILS LTD

TEST REPORT



Report No. 781037 R01

1774

Date 28-October-2013 Contract 10035/5063

Client Envirolab Ltd
Address Units 7 & 8 Sandpits Business Park
Mottram Road
Hyde
SK14 3AR

For the Attention of Carrie Field

Samples submitted by client 17/10/2013
Testing Started 18/10/2013
Testing Completed 28/10/2013

Client Reference 10035/5063
Client Order No. P0729791
Instruction Type Written

UKAS Accredited Tests Undertaken

Moisture Content (oven drying method) BS1377:Part 2:1990,clause 3.2
Liquid Limit (definitive method) BS1377:Part 2:1990,clause 4.3
Plastic Limit BS1377:Part 2:1990,clause 5.3
Plasticity Index Derivation BS1377:Part 2:1990,clause 5.4

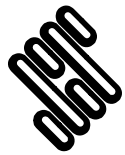
* Tests were undertaken on samples 'as received' unless otherwise stated

Please Note: Remaining samples will be retained for a period of one month from today and will then be disposed of

SUMMARY OF SOIL CLASSIFICATION TESTS

In accordance with clauses 3.2,4.3,4.4,5.3,5.4,7.2,8.2,8.3 of BS1377:Part 2:1990

Exploratory Position ID	Sample Ref	Sample Type	Depth (m)	Moisture Content %	Liquid Limit %	Plastic Limit %	Plasticity Index %	% <425um	Description of Sample
TP4	13/04884/6	D	1.00	15	42	19	23	88	Grey brown slightly sandy slightly gravelly CLAY
TP6	13/04884/9	D	1.00	16	43	22	21	81	Grey brown slightly sandy CLAY



STRUCTURAL
SOILS LTD

Contract:

10035/5063

Contract Ref:

781037



Testing in accordance with BS1377-2:1990

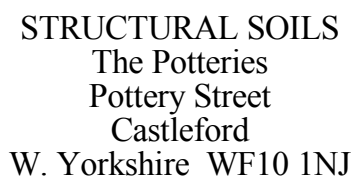
[illegible]

- 3.2 - Moisture Content
- 4.3 - Cone Penetrometer Method
- 4.4 - One Point Cone Penetrometer Method
- 4.6 - One Point Casagrande Method
- 5.3 - Plastic Limit Method
- 5.4 - Plasticity Index

4.2.3 - Natural State
4.2.4 - Wet Sieved

Key: * = Non standard test, NP = Non plastic.

Approved Signatories: J.BARRETT M.ATHORNE A.FROST M.RANDERSON R.CLARKSON M.FISHER C.COLE M.STOKES

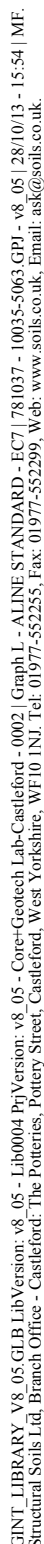


M. Fisher

28/10/13

10035/5063

781037



Appendix VII

Site Photographs



















