



Photograph 31 – Foundation Pit 08



Photograph 32 – Foundation Pit 08 step



Photograph 33 – Foundation Pit 08 soil horizons



Photograph 34 – Foundation Pit 08 location



Photograph 35 – Foundation Pit 09 step



Photograph 36 – Foundation Pit 09 base of foundations



Photograph 37 – Foundation Pit 09 soil horizons



Photograph 38 – Foundation Pit 09 soil arisings



Photograph 39 – Foundation Pit 10 prior to slab being broken out



Photograph 40 – Foundation Pit 10 soil arisings



Photograph 41 – Foundation Pit 10 base of pit after slab broken out



Photograph 42 – Foundation Pit 10 and 11 locations



Photograph 43 – Foundation Pit 11



Photograph 44 – Foundation Pit 11 arisings

Appendix V

Coring Logs



Core Location – CORE 1

Thickness of Tarmac: None identified. Thickness of Concrete: 13cm. Thickness of Sub-Base: 87cm.

Description:

0-13cm -	Concrete. Subrounded to rounded fine to coarse gravels of mixed lithologies within a concrete matrix. No rebar.
Made Ground 13-80cm -	Multi-coloured (black/brown/red/cream) very gravelly sand with moderate cobble content. Sand is fine. Gravel is subangular to rounded fine to coarse of mixed lithologies. Cobbles are subangular to subrounded of mixed lithologies up to 70mm across. Brick noted at 0.3mbgl.
Natural 80-100cm -	Orangish light brown very gravelly sand. Sand is fine to medium. Gravel is subrounded to rounded fine to coarse of mixed lithologies.



Core Location – CORE 2

Thickness of Tarmac: None identified. Thickness of Concrete: None identified. Thickness of Sub-Base: 150cm.

Description:

Made Ground 0-7cm -	Dark brown very gravelly sand with subangular brick cobble noted. Sand is fine to medium. Gravel is angular to subangular fine to coarse of mixed lithologies including brick.
Made Ground 7-15cm -	Loose black angular to subangular fine to coarse tarmac gravels.
Made Ground 15-40cm -	Loose white angular to subangular fine to coarse sandstone gravels.
Made Ground 40-100cm -	Loose reddish brown very gravelly sand with brick cobble noted. Sand is fine. Gravel is angular to rounded of mixed lithologies including brick.
Natural 100-150cm -	Reddish orange gravelly sand with low cobble content. Sand is fine. Gravel is subrounded to rounded fine to coarse of mixed lithologies. Cobbles are subrounded to rounded of mixed lithologies up to 65mm across.



Met
 NAME: FRANK FARM
 JOB NO: 22-COBS4
 DATE: 5/11/21
 LOCATION: CORE 3
 DEPTH (m): 1.5m

Core Location – CORE 3

Thickness of Tarmac: 6cm. Thickness of Concrete: None identified. Thickness of Sub-Base: 154cm.

Description:

	0-6cm -	Tarmac. 0-1cm is angular to subangular fine tarmac gravels, 1-6cm is angular to subangular fine to coarse tarmac gravels.
Fill	6-20cm -	Cream/yellow subangular cobbles of sandstone and some brick up to 70mm across.
Made Ground	20-30cm -	Grey subangular to rounded fine to coarse gravels of mixed lithologies.
Made Ground	30-60cm -	Reddish brown gravelly sand. Sand is fine. Gravel is subangular to rounded of mixed lithologies including coal and brick.
Reworked	60-110cm -	Reddish brown very gravelly sand with high cobble content. Sand is fine. Gravel is angular to rounded of mixed lithologies including some brick. Cobbles are subrounded to rounded of mixed lithologies up to 85mm across.
Natural	110-160cm -	Reddish orange slightly gravelly sand with medium cobble content. Sand is fine. Gravel is subrounded to rounded fine to coarse of mixed lithologies. Cobbles are subrounded to rounded of mixed lithologies up to 90mm across.



Core Location – CORE 4

Thickness of Tarmac: 8cm. Thickness of Concrete: None identified. Thickness of Sub-Base: 142cm.

Description:

0-8cm -	Tarmac. 0-1.5cm is angular to subangular fine tarmac gravels, 1.5-8cm is angular to subangular fine to coarse tarmac gravels.
Made Ground 8-70cm -	Reddish orange gravelly sand with moderate to high cobble content. Sand is fine. Gravel is subangular to rounded fine to coarse of mixed lithologies including sandstone and brick. Cobbles are angular to rounded of mixed lithologies up to 80mm across. Ceramic tile noted at 0.1mbgl.
Made Ground 70-90cm -	Medium brown gravelly sand with moderate cobble content. Sand is fine. Gravel is angular to rounded fine to coarse of mixed lithologies including brick and coal. Cobbles are rounded of mixed lithologies up to 75mm across.
Natural 90-150cm -	Reddish orange fine grained sand.



Core Location – CORE 5

Thickness of Tarmac: 7cm. Thickness of Concrete: None identified. Thickness of Sub-Base: 83cm.

Description:

0-7cm -	Weak tarmac, recovered with breakages. 0-1cm is subangular to angular fine tarmac gravels, 1-7cm is subangular to angular fine to coarse tarmac gravels.
Made Ground 7-15cm -	Multicoloured (black/red/brown) ashy sandy gravel. Sand is fine to medium. Gravel is angular to subangular fine to coarse of mixed lithologies including sandstone, brick and some coal.
Made Ground 15-25cm -	Light brown sandy gravel. Sand is fine. Gravel is angular to subangular fine to coarse of mixed lithologies including brick.
Made Ground 25-80cm -	Reddish brown gravelly sand. Sand is fine. Gravel is subangular to rounded fine to coarse of mixed lithologies including brick.
Natural 80-90cm -	Reddish brown gravelly sand. Sand is fine. Gravel is subrounded to rounded fine to coarse of mixed lithologies.



Core Location – CORE 6

Thickness of Tarmac: 15cm. Thickness of Concrete: None identified. Thickness of Sub-Base: 145cm.

Description:

0-15cm -	Tarmac. 0-7cm is angular to subangular fine to medium tarmac gravels, 7-15cm is angular to subangular fine to coarse tarmac gravels.
Made Ground 15-20cm -	Light brown sandy gravel. Sand is fine. Gravel is angular to subangular fine to coarse of mixed lithologies including sandstone and brick.
Reworked 20-120cm -	Reddish brown gravelly sand with moderate cobble content. Sand is fine. Gravel is angular to rounded fine to coarse of mixed lithologies including some brick and coal. Cobbles are subrounded to rounded of mixed lithologies up to 70mm across.
Natural 120-160cm -	Reddish orange gravelly sand. Sand is fine. Gravel is subrounded to rounded fine to coarse of mixed lithologies.



Core Location – CORE 7

Thickness of Tarmac: 14cm. Thickness of Concrete: None identified. Thickness of Sub-Base: 136cm.

Description:

	0-14cm -	Tarmac. 0-8cm is angular to subangular fine to medium tarmac gravels, 8-14cm is angular to subangular fine to coarse tarmac gravels.
Fill	14-20cm -	Cream very sandy gravel. Sand is fine. Gravel is angular to rounded fine to coarse of mixed lithologies including sandstone and some brick.
Reworked	20-120cm -	Reddish orange gravelly sand. Sand is fine. Gravel is subrounded to rounded fine to coarse of mixed lithologies including some coal and potential brick.
Natural	120-150cm -	Reddish orange fine grained sand.



Core Location – CORE 8

Thickness of Tarmac: 15cm. Thickness of Concrete: None identified. Thickness of Sub-Base: 135cm.

Description:

	0-15cm -	Tarmac. 0-7.5cm is angular to subangular fine to coarse tarmac gravels, 7.5-13cm, is angular to subangular fine to coarse tarmac gravels, 13-15cm is weak tarmac recovered as broken angular to subangular fine to coarse tarmac gravels.
Reworked	15-110cm -	Reddish brown, brown between 0.9-1.1mbgl, gravelly sand with moderate cobble content. Sand is fine. Gravel is angular to rounded of mixed lithologies including potential brick and some coal. Cobbles are subrounded to rounded of mixed lithologies up to 80mm across.
Natural	110-150cm -	Reddish orange fine grained sand.



Core Location – CORE 9

Thickness of Tarmac: 21cm. Thickness of Concrete: None identified. Thickness of Sub-Base: 79cm.

Description:

0-21cm -	Tarmac. Angular to subangular fine to coarse tarmac gravels, recovered as broken angular to subangular fine to coarse tarmac gravels at base.
Made Ground 21-35cm -	Multicoloured (red/cream/brown) slightly clayey gravelly sand. Sand is fine to coarse. Gravel is angular to subangular fine to coarse of mixed lithologies including brick and coal.
Made Ground 35-60cm -	Medium brown gravelly sand. Sand is fine. Gravel is angular to subangular fine to coarse of brick and coal.
Natural 60-100cm -	Red slightly gravelly sand. Sand is fine. Gravel is rounded fine to coarse of mixed lithologies.



Core Location – CORE 10

Thickness of Tarmac: 15cm. Thickness of Concrete: None identified. Thickness of Sub-Base: 85cm.

Description:

	0-15cm -	Tarmac. 0-9cm is angular to subangular fine to coarse tarmac gravels, 9-15cm is weak angular to subangular fine to coarse tarmac gravels.
Fill	15-20cm -	Cream and grey angular to subangular coarse gravels of mixed lithologies.
Reworked	20-25cm -	Cream/light brown sandy gravel. Sand is fine. Gravel is subangular to rounded fine to coarse of mixed lithologies including brick.
Natural	25-100cm -	Light brown gravelly sand with moderate cobble content. Sand is fine. Gravel is subrounded to rounded fine to coarse of mixed lithologies including flecks of coal. Cobbles are subrounded to rounded of mixed lithologies up to 85mm across.



Core Location – CORE 11

Thickness of Tarmac: 15cm. Thickness of Concrete: None identified. Thickness of Sub-Base: 85cm.

Description:

	0-15cm -	Tarmac. 0-6.5cm is angular to subangular fine to coarse tarmac gravels, 6.5-11cm is angular to subangular fine to medium tarmac gravels, 11-15cm is weak tarmac recovered as broken angular to subangular fine to coarse tarmac gravels.
Fill	15-25cm -	Cream slightly gravelly sand. Sand is fine. Gravel is subangular fine to coarse of sandstone.
Natural	25-55cm -	Reddish brown gravelly sand. Sand is fine. Gravel is subrounded to rounded fine to coarse of mixed lithologies.
Natural	55-100cm -	Orangish light brown fine to coarse sand.



Met
 Site: MANCE FARM
 Job No: P21-00184
 Date: 3/11/21
 Location: CORE 12
 Depth (m): 0.6m

Core Location – CORE 12

Thickness of Tarmac: 20cm. Thickness of Concrete: None identified. Thickness of Sub-Base: 40cm.

Description:

	0-20cm -	Tarmac. 0-8cm is angular to subangular fine to medium gravels, 8-20cm is degraded tarmac with very strong bitumen odour noted and loose angular to subangular fine to coarse tarmac gravels at base.
Fill	20-27cm -	Grey subrounded to rounded medium to coarse gravels.
Natural	27-60cm -	Reddish brown gravelly sand with moderate cobble content. Sand is fine. Gravel is subrounded to rounded fine to coarse of mixed lithologies. Cobbles are subrounded to rounded of mixed lithologies up to 65mm across.



Core Location – CORE 13

Thickness of Tarmac: 6cm. Thickness of Concrete: None identified. Thickness of Sub-Base: 94cm.

Description:

	0-6cm -	Tarmac. Subangular to angular fine to coarse tarmac gravels.
Fill	6-17.5cm -	Cream becoming brown very sandy gravel. Sand is fine. Gravel is angular to subangular fine to coarse of limestone.
Natural	17.5-100cm -	Reddish brown gravelly sand with low cobble content. Sand is fine. Gravel is subrounded to rounded fine to coarse of mixed lithologies with flecks of coal. Cobbles are subrounded to rounded of mixed lithologies up to 65mm across.



Core Location – CORE 14

Thickness of Tarmac: None Identified. Thickness of Concrete: None identified. Thickness of Sub-Base: 100cm.

Description:

Made Ground 0-23cm -	Grey/light brown very sandy gravel. Sand is fine. Gravel is angular to subangular fine to coarse of mixed lithologies including some brick.
Natural 23-100cm -	Reddish orange gravelly sand with high cobble content. Sand is fine to medium. Gravel is subrounded to rounded fine to coarse of mixed lithologies. Cobbles are subrounded to rounded of mixed lithologies up to 75mm across.

Appendix VI

CBR Testing Results



STRUCTURAL SOILS LTD

INSITU TESTING REPORT



1774

Report No. 785012.R01(00)

Date 22-October-2021 Contract Manor Farm, Carburton

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

For the Attention of Ami Cooper

Order received	05-August-2021	Client Reference	P21-00134
Testing Started	20-October-2021	Client Order No.	PO-05662
Testing Completed	21-October-2021	Instruction Type	Written

Tests marked 'Not UKAS Accredited' in this report are not included in the UKAS Accreditation Schedule for our Laboratory.

UKAS Accredited Tests

* 16 no. Insitu CBR Test in accordance with BS1377:Part 9:1990.

The results represent the ground conditions at the specified locations and depths at the time of testing.

Please Note: Remaining samples will be retained for a period of one month from today and will then be disposed of.
Test were undertaken on samples 'as received' unless otherwise stated.
Opinions and interpretations expressed in this report are outside the scope of accreditation for this laboratory.

Structural Soils Ltd, The Potteries, Pottery Street, Castleford, WF10 1NJ Tel.01977552255. e-mail matthew.doran@soils.co.uk

TESTING VERIFICATION CERTIFICATE

The test results included in this report are certified as:-

ISSUE STATUS: **FINAL**

In accordance with the Structural Soils Ltd Laboratory Quality Management System, results sheets and summaries of results issued by the laboratory are checked by an approved signatory. The integrity of the test data and results are ensured by control of the computer system employed by the laboratory as part of the Software Verification Program as detailed in the Laboratory Quality Manual.

This testing verification certificate covers all testing compiled on or before the following datetime: **22/10/2021 10:15:31**.

Testing reported after this date is not covered by this Verification Certificate.



Approved Signatory
Matthew Doran (Deputy Site Testing Manager)

(Head Office)
Bristol Laboratory
Unit 1A, Princess Street
Bedminster
Bristol
BS3 4AG

Castleford Laboratory
The Potteries, Pottery Street
Castleford
West Yorkshire
WF10 1NJ

Hemel Laboratory
18 Frogmore Road
Hemel Hempstead
Hertfordshire
HP3 9RT

Tonbridge Laboratory
Anerley Court, Half Moon Lane
Hildenborough
Tonbridge
TN11 9HU



**STRUCTURAL
SOILS LTD**

Contract:

Manor Farm, Carburton

Job No:

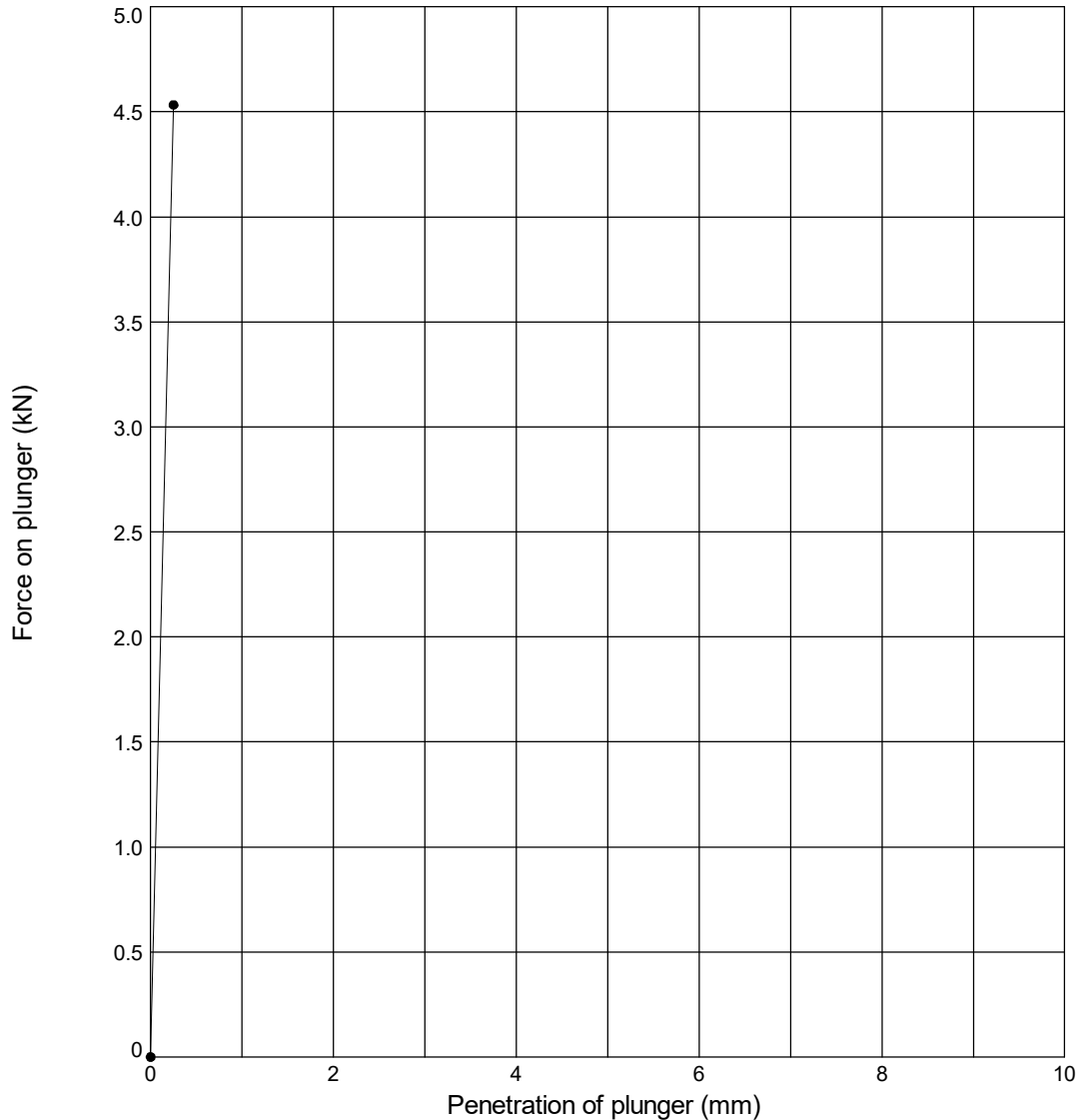
785012



IN SITU CALIFORNIA BEARING RATIO TEST


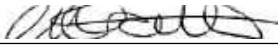

In accordance with BS1377:Part 9:1990

Position Ref: **CBR01** Depth (m): **0.00** Date: **20/10/21**



Test Details	Test Conditions	Test Results
Kentledge : Toyota Hilux Surcharge (kg) : 4.52 Surcharge Pressure (kPa) : 1	Weather : Light rain Temperature (°C) : 11	CBR Value (%) : > 39 Moisture Content (%) : NA
Sample Description	Test Notes	
TARMAC	Estimated particles >20 mm (%) : 0 Size and position of particles >20mm in relation to the plunger : Unknown	

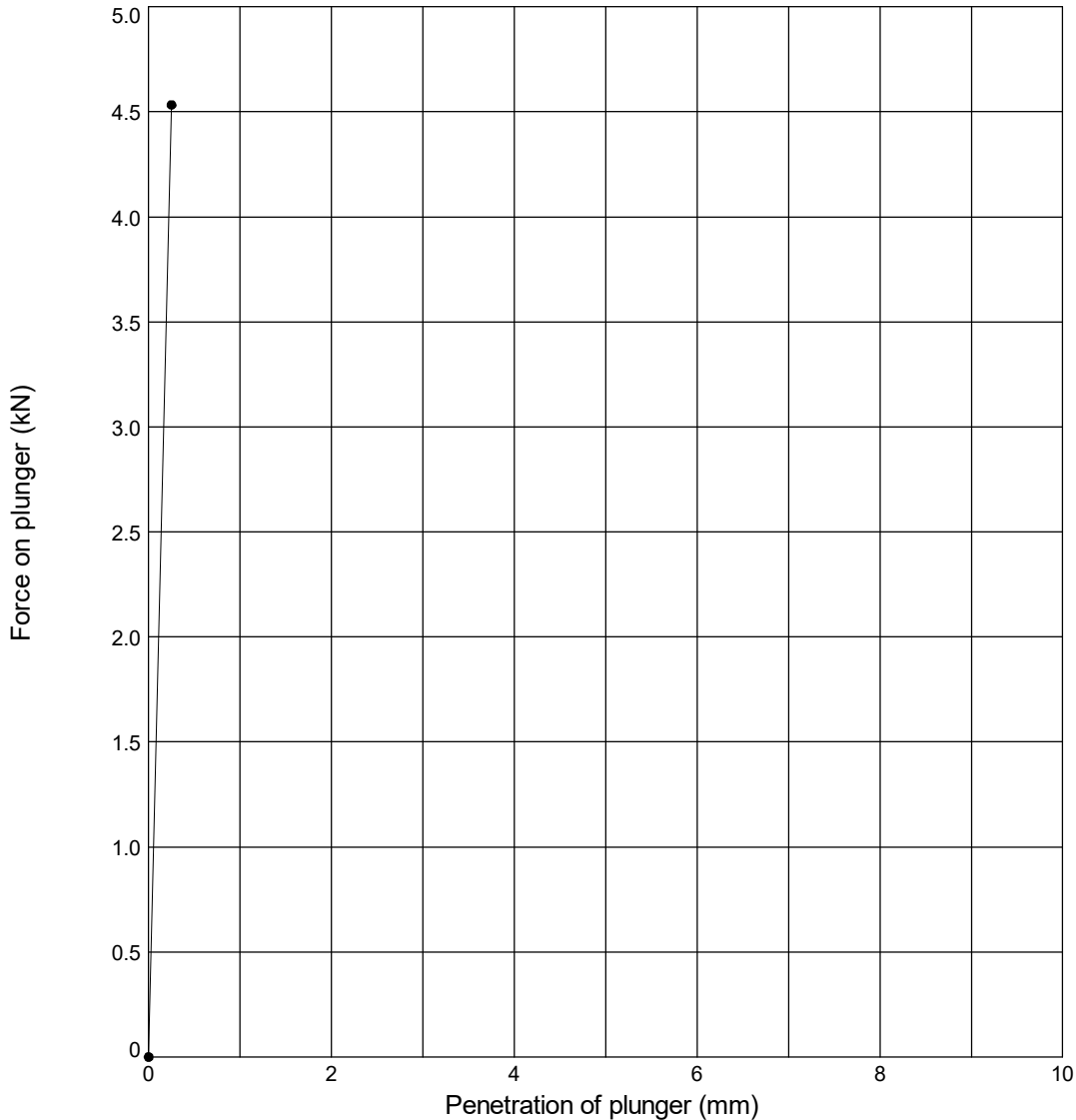
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 <p>STRUCTURAL SOILS The Potteries Pottery Street Castleford W. Yorkshire WF10 1NJ</p>	Compiled By		Date
	 LORNA WHITWORTH		22/10/21
	Contract		Contract Ref:
Manor Farm, Carburton		785012	
			

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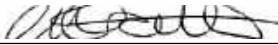
In accordance with BS1377:Part 9:1990


Position Ref: **CBR02** Depth (m): **0.00** Date: **20/10/21**



Test Details	Test Conditions	Test Results
Kentledge : Toyota Hilux Surcharge (kg) : 4.52 Surcharge Pressure (kPa) : 1	Weather : Rain Temperature (°C) : 11	CBR Value (%) : > 39 Moisture Content (%) : NA
Sample Description	Test Notes	
TARMAC	Estimated particles >20 mm (%) : 0 Size and position of particles >20mm in relation to the plunger : Unknown	

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PjVersion: v8_07 | Graph 1 - CBR - IN SITU - A4P | 785012.GPJ - v10_01 | Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255. Fax: 01977-552299. Web: www.soils.co.uk. Email: ask@soils.co.uk | 22/10/21 - 09:28 | LW5 |

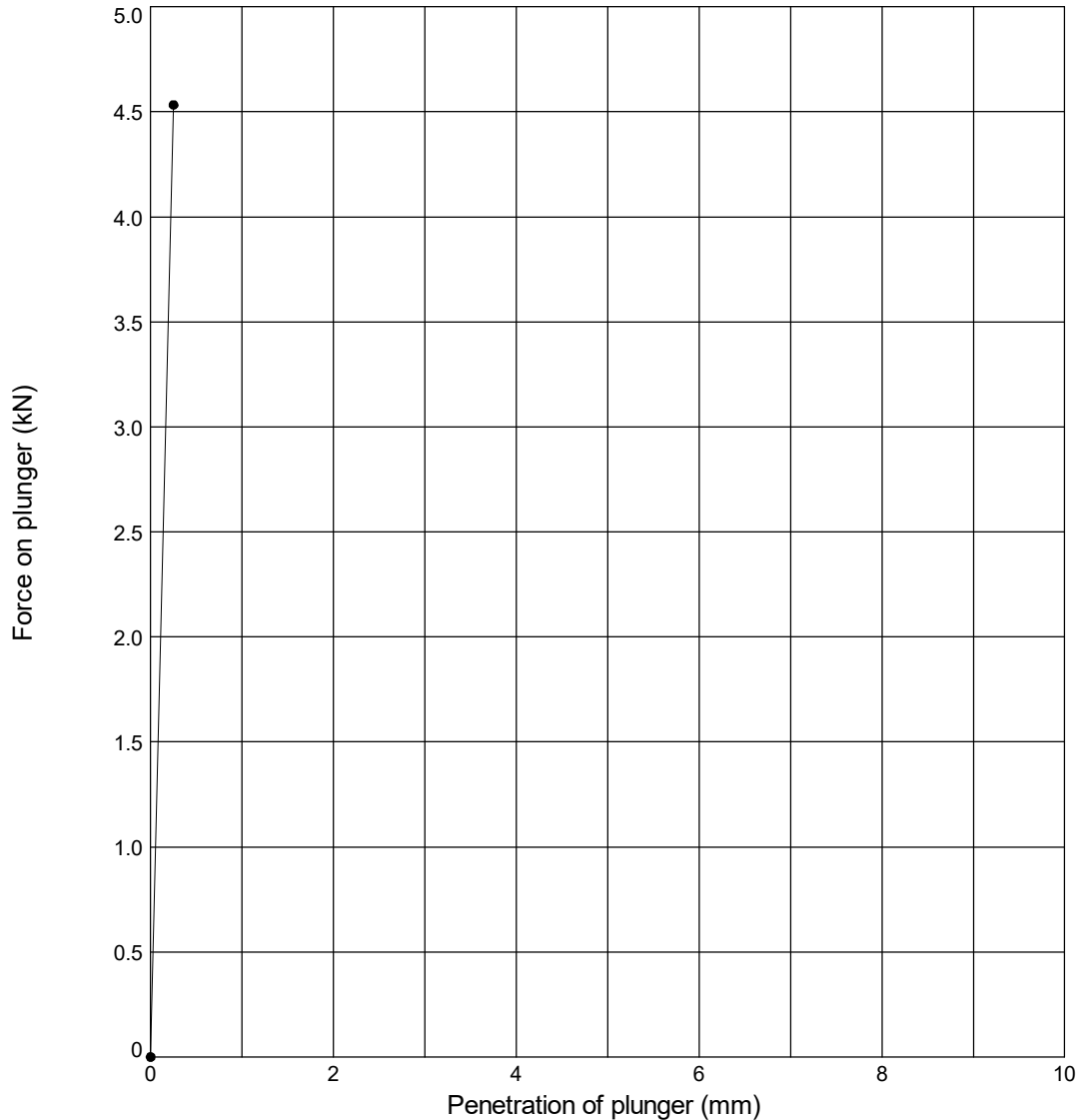
 <p>STRUCTURAL SOILS The Potteries Pottery Street Castleford W. Yorkshire WF10 1NJ</p>	Compiled By		Date
	 LORNA WHITWORTH		22/10/21
	Contract Manor Farm, Carburton		Contract Ref: 785012



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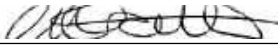

In accordance with BS1377:Part 9:1990

Position Ref: **CBR03** Depth (m): **0.00** Date: **20/10/21**



Test Details	Test Conditions	Test Results
Kentledge : Toyota Hilux Surcharge (kg) : 4.52 Surcharge Pressure (kPa) : 1	Weather : Fine Temperature (°C) : 12	CBR Value (%) : > 39 Moisture Content (%) : NA
Sample Description	Test Notes	
TARMAC	Estimated particles >20 mm (%) : 0 Size and position of particles >20mm in relation to the plunger : Unknown	

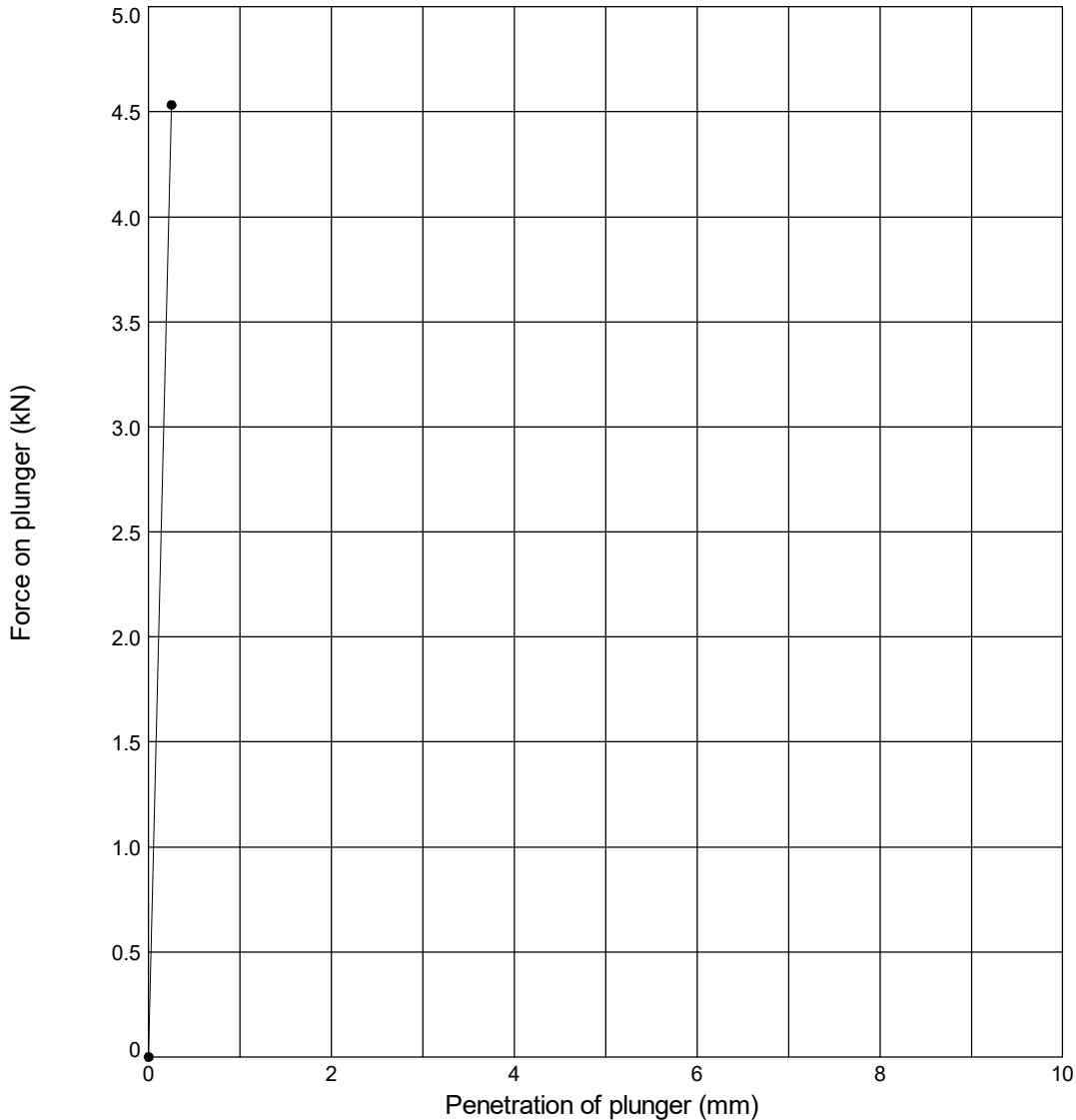
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	 LORNA WHITWORTH		22/10/21
	Contract		Contract Ref:
Manor Farm, Carburton		785012	
			

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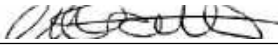

In accordance with BS1377:Part 9:1990

Position Ref: **CBR04** Depth (m): **0.00** Date: **20/10/21**



Test Details	Test Conditions	Test Results
Kentledge : Toyota Hilux Surcharge (kg) : 4.52 Surcharge Pressure (kPa) : 1	Weather : Fine Temperature (°C) : 13	CBR Value (%) : > 39 Moisture Content (%) : 6.8
Sample Description	Test Notes	
Light grey slightly sandy GRAVEL	Estimated particles >20 mm (%) : 3 Size and position of particles >20mm in relation to the plunger : Unknown	

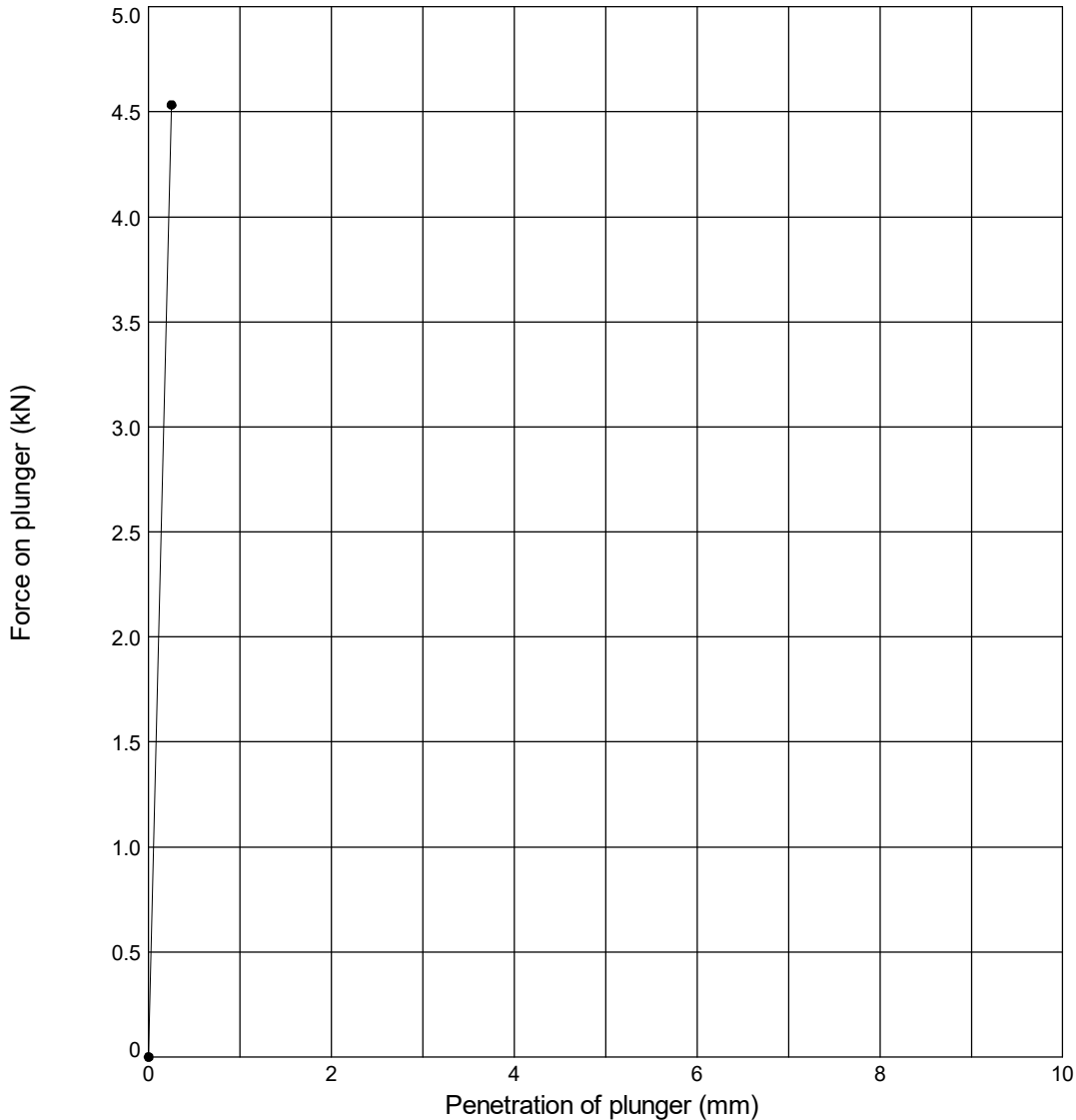
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	Contract		Contract Ref:
Manor Farm, Carburton		785012	
			

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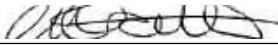

In accordance with BS1377:Part 9:1990

Position Ref: **CBR05** Depth (m): **0.00** Date: **20/10/21**



Test Details	Test Conditions	Test Results
Kentledge : Toyota Hilux Surcharge (kg) : 4.52 Surcharge Pressure (kPa) : 1	Weather : Fine Temperature (°C) : 13	CBR Value (%) : > 39 Moisture Content (%) 4.03
Sample Description	Test Notes	
Light brown sandy GRAVEL	Estimated particles >20 mm (%) : 0 Size and position of particles >20mm in relation to the plunger : Unknown	

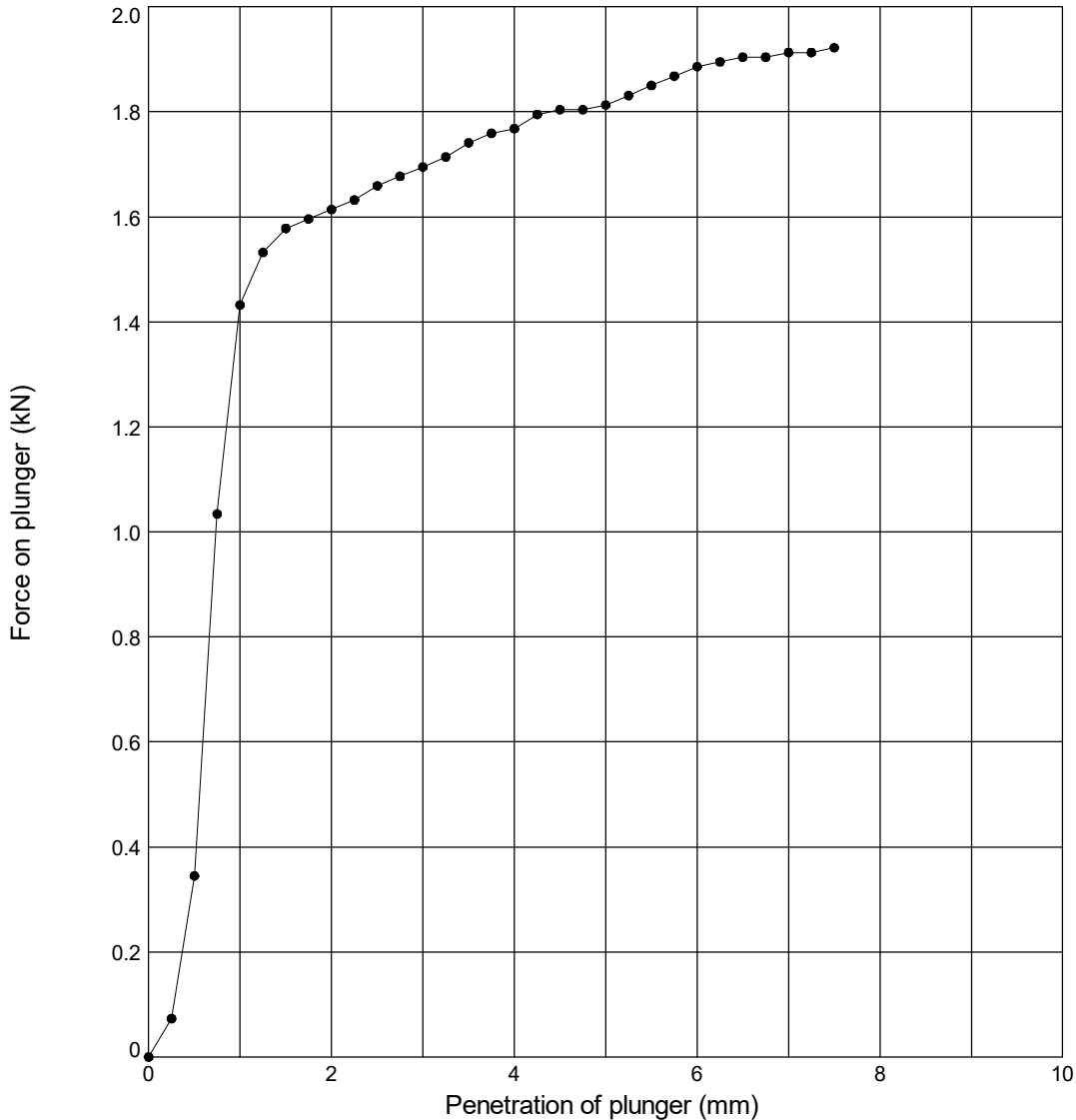
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	Contract		Contract Ref:
Manor Farm, Carburton		785012	
			

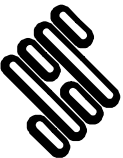
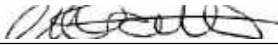
IN SITU CALIFORNIA BEARING RATIO TEST

In accordance with BS1377:Part 9:1990

Position Ref: **CBR06** Depth (m): **0.00** Date: **20/10/21**



Test Details	Test Conditions	Test Results
Kentledge : Toyota Hilux Surcharge (kg) : 4.52 Surcharge Pressure (kPa) : 1	Weather : Fine Temperature (°C) : 14	CBR Value (%) : 13 Moisture Content (%) : 11
Sample Description	Test Notes	
Light brown very sandy GRAVEL	Estimated particles >20 mm (%) : 3 Size and position of particles >20mm in relation to the plunger : Unknown	

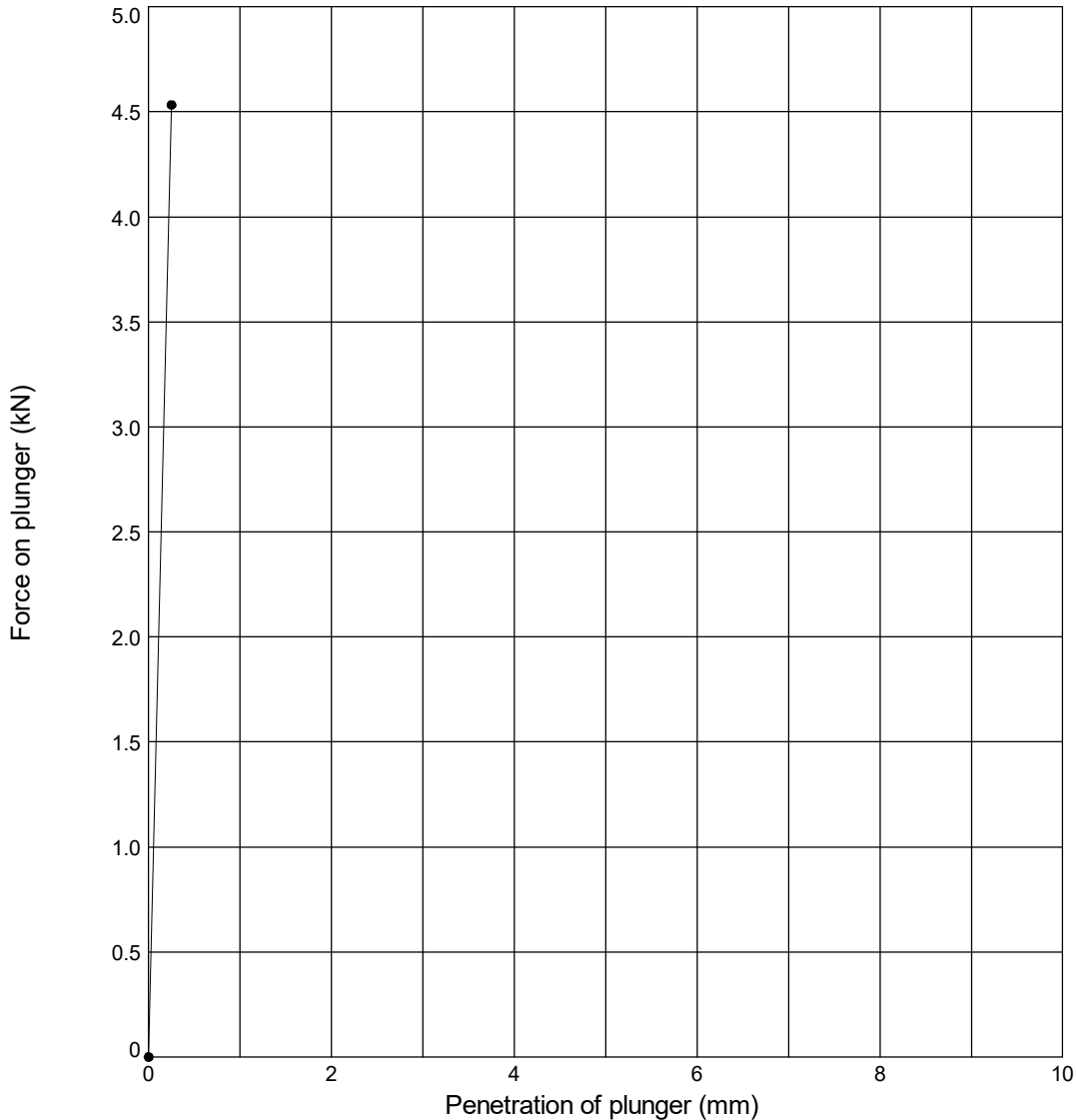
 <p>STRUCTURAL SOILS The Potteries Pottery Street Castleford W. Yorkshire WF10 1NJ</p>	Compiled By		Date
	 Contract		LORNA WHITWORTH 22/10/21
	Manor Farm, Carburton		Contract Ref: 785012



IN SITU CALIFORNIA BEARING RATIO TEST


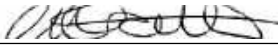

In accordance with BS1377:Part 9:1990

Position Ref: **CBR07** Depth (m): **0.00** Date: **20/10/21**



Test Details	Test Conditions	Test Results
Kettleage : Toyota Hilux Surcharge (kg) : 4.52 Surcharge Pressure (kPa) : 1	Weather : Fine Temperature (°C) : 13	CBR Value (%) : > 39 Moisture Content (%) : 11
Sample Description	Test Notes	
Light grey sandy GRAVEL	Estimated particles >20 mm (%) : 3 Size and position of particles >20mm in relation to the plunger : Unknown	

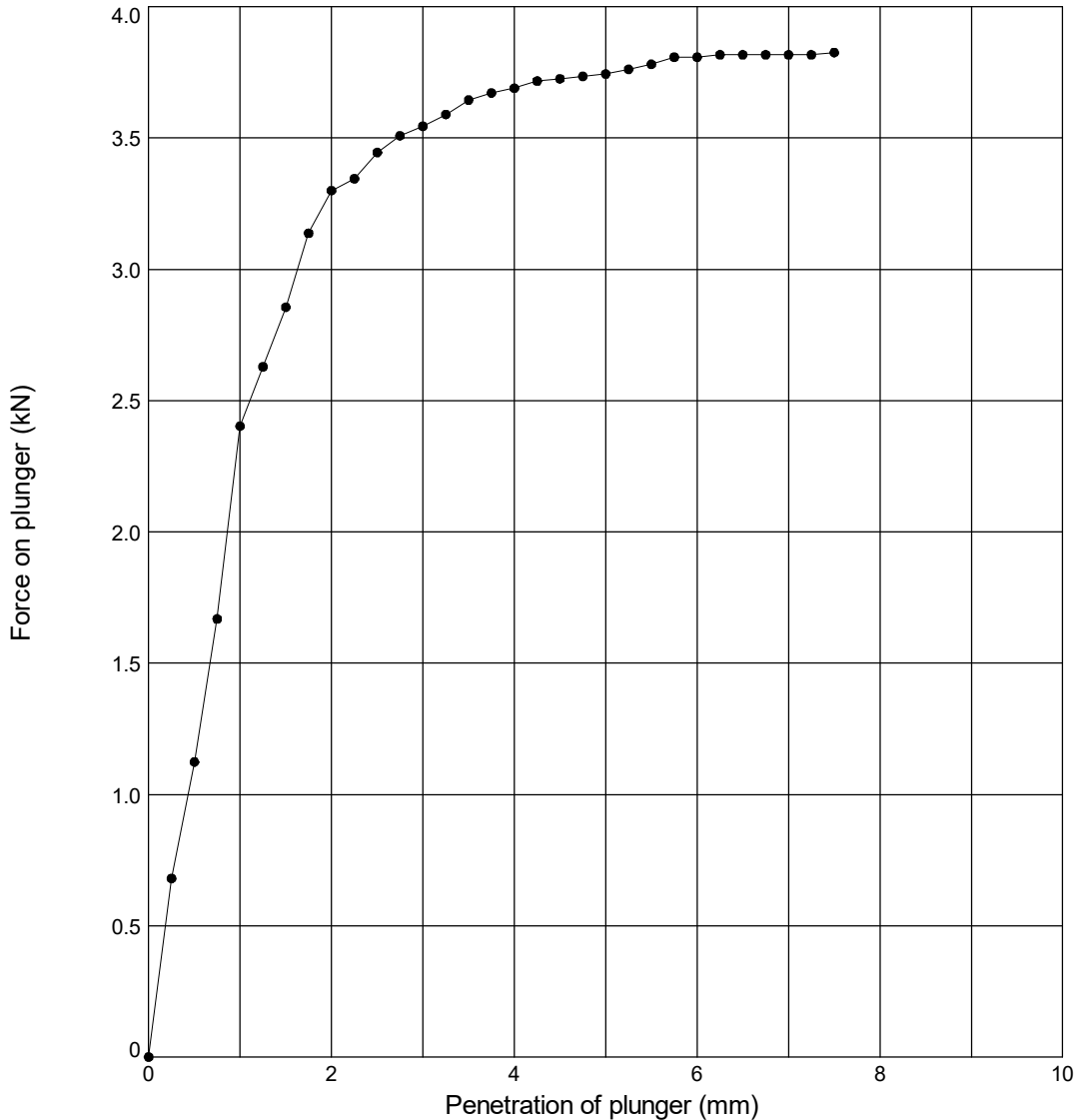
GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 ProjVersion: v8_07_071 Graph 1 - CBR - IN SITU - A4P | 785012.GPJ - v10_01
 Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255. Fax: 01977-552299. Web: www.soils.co.uk. Email: ask@soils.co.uk | 22/10/21 - 09:28 | LW5 |

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	 LORNA WHITWORTH		22/10/21
	Contract		Contract Ref:
Manor Farm, Carburton		785012	
			

IN SITU CALIFORNIA BEARING RATIO TEST


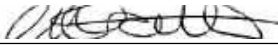

In accordance with BS1377:Part 9:1990

Position Ref: **CBR08** Depth (m): **0.00** Date: **20/10/21**



Test Details	Test Conditions	Test Results
Kentledge : Toyota Hilux Surcharge (kg) : 4.52 Surcharge Pressure (kPa) : 1	Weather : Fine Temperature (°C) : 15	CBR Value (%) : 26 Moisture Content (%) : 8.2
Sample Description	Test Notes	
Light grey sandy GRAVEL	Estimated particles >20 mm (%) : 3 Size and position of particles >20mm in relation to the plunger : Unknown	

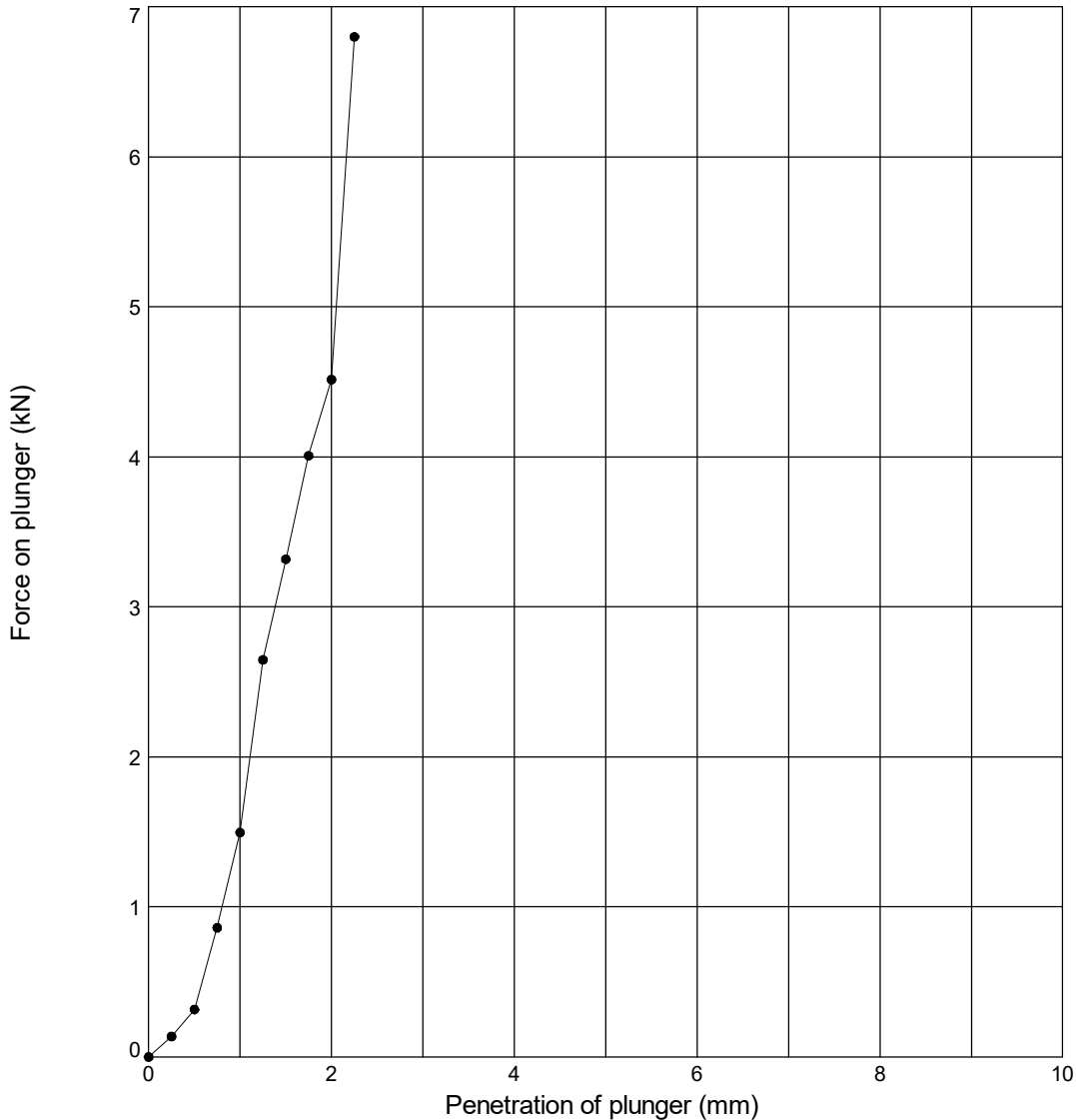
GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 ProjVersion: v8_07_071 Graph 1 - CBR - IN SITU - A4P | 785012.GPJ - v10_01 | Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk | 22/10/21 - 09:28 | LW5 |

 <p>STRUCTURAL SOILS The Potteries Pottery Street Castleford W. Yorkshire WF10 1NJ</p>	Compiled By		Date
	 LORNA WHITWORTH		22/10/21
	Contract		Contract Ref:
Manor Farm, Carburton		785012	
			


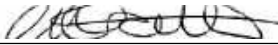

IN SITU CALIFORNIA BEARING RATIO TEST

In accordance with BS1377:Part 9:1990

Position Ref: **CBR09** Depth (m): **0.00** Date: **20/10/21**



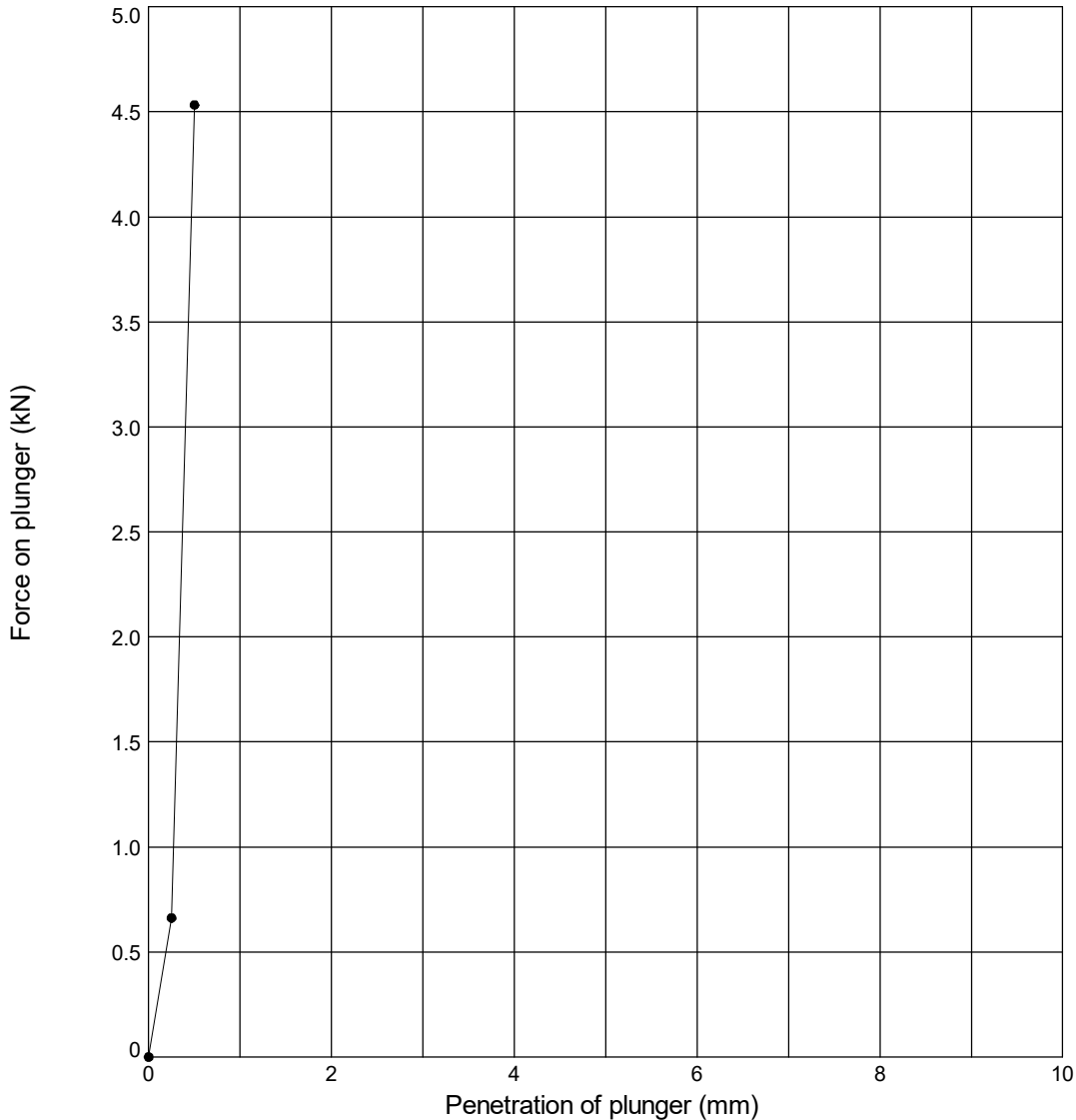
Test Details	Test Conditions	Test Results
Kentledge : Toyota Hilux Surcharge (kg) : 4.52 Surcharge Pressure (kPa) : 1	Weather : Fine Temperature (°C) : 13	CBR Value (%) : > 39 Moisture Content (%) : 8.3
Sample Description	Test Notes	
Light grey brown sandy GRAVEL	Estimated particles >20 mm (%) : 3 Size and position of particles >20mm in relation to the plunger : Unknown	

 <p>STRUCTURAL SOILS The Potteries Pottery Street Castleford W. Yorkshire WF10 1NJ</p>	Compiled By		Date
	 LORNA WHITWORTH		22/10/21
	Contract		Contract Ref:
Manor Farm, Carburton		785012	
			

IN SITU CALIFORNIA BEARING RATIO TEST


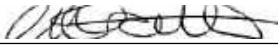

In accordance with BS1377:Part 9:1990

Position Ref: **CBR10** Depth (m): **0.00** Date: **21/10/21**



Test Details	Test Conditions	Test Results
Kentledge : Toyota Hilux Surcharge (kg) : 4.52 Surcharge Pressure (kPa) : 1	Weather : Fine Temperature (°C) : 8	CBR Value (%) : > 39 Moisture Content (%) : 13.80
Sample Description	Test Notes	
Light greyish brown sandy GRAVEL	Estimated particles >20 mm (%) : 5 Size and position of particles >20mm in relation to the plunger : Unknown	

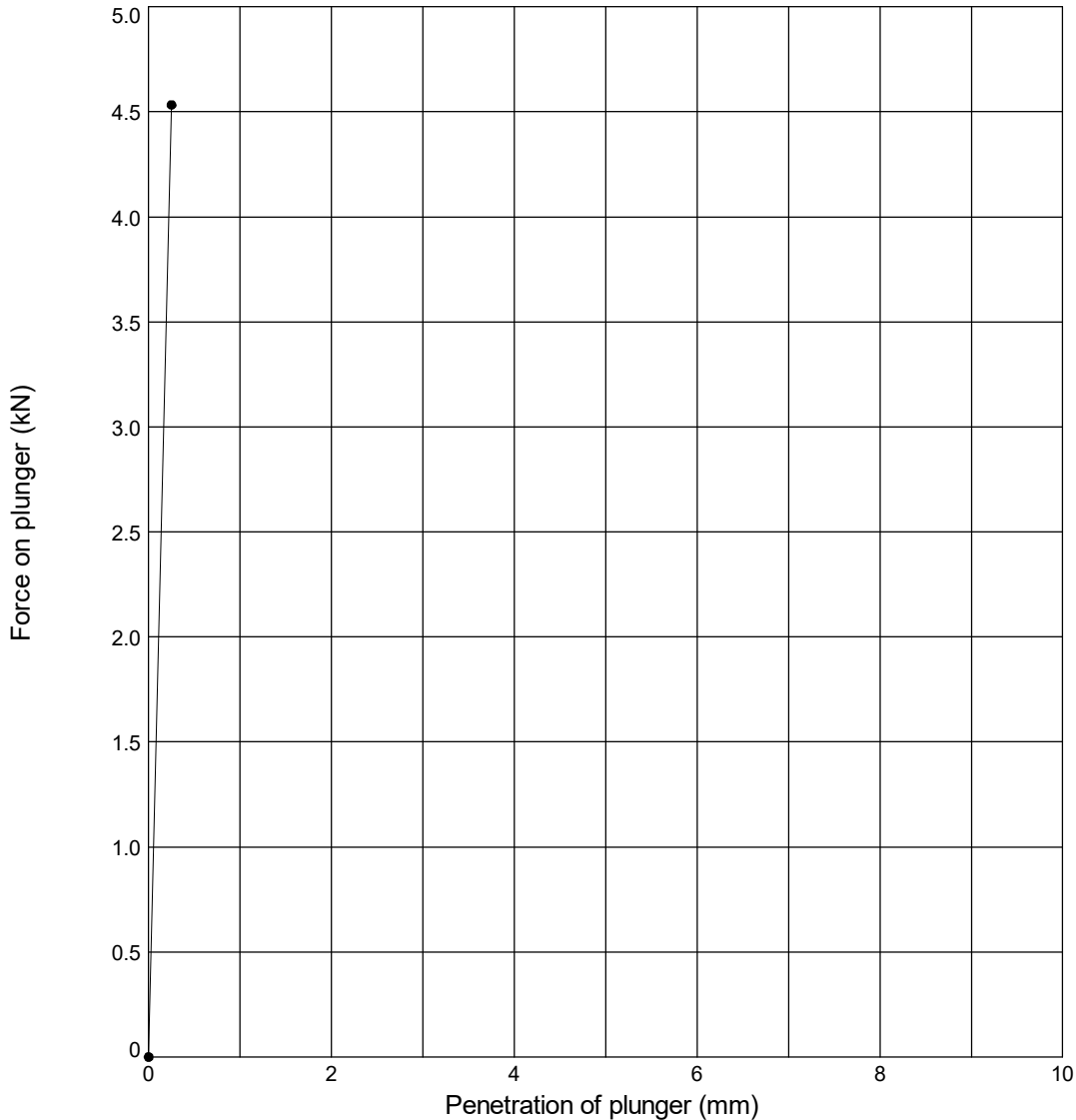
GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 ProjVersion: v8_07_071 Graph 1 - CBR - IN SITU - A4P | 785012.GPJ - v10_01
 Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255. Fax: 01977-552299. Web: www.soils.co.uk. Email: ask@soils.co.uk | 22/10/21 - 09:28 | LW5 |

 <p>STRUCTURAL SOILS The Potteries Pottery Street Castleford W. Yorkshire WF10 1NJ</p>	Compiled By		Date
	 LORNA WHITWORTH		22/10/21
	Contract		Contract Ref:
Manor Farm, Carburton		785012	
			

IN SITU CALIFORNIA BEARING RATIO TEST


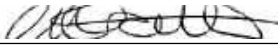

In accordance with BS1377:Part 9:1990

Position Ref: **CBR11** Depth (m): **0.00** Date: **21/10/21**



Test Details	Test Conditions	Test Results
Kentledge : Toyota Hilux Surcharge (kg) : 4.52 Surcharge Pressure (kPa) : 1	Weather : Fine Temperature (°C) : 8	CBR Value (%) : > 39 Moisture Content (%) : 7.4
Sample Description	Test Notes	
Light brown very sandy GRAVEL	Estimated particles >20 mm (%) : 10 Size and position of particles >20mm in relation to the plunger : Unknown	

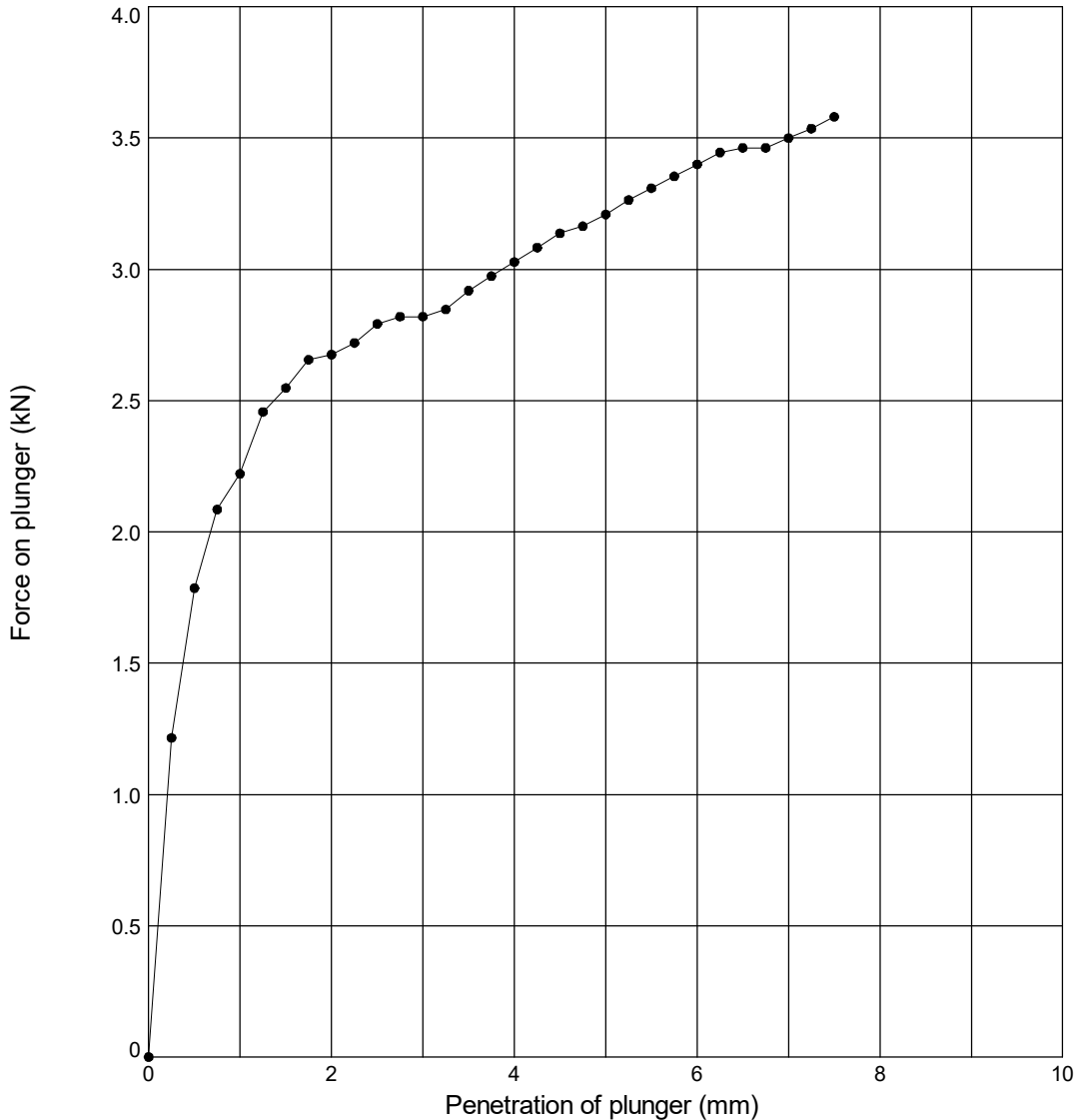
GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 ProjVersion: v8_07 | Graph 1 - CBR - IN SITU - A4P | 785012.GPJ - v10_01 | Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255. Fax: 01977-552299. Web: www.soils.co.uk. Email: ask@soils.co.uk | 22/10/21 - 09:28 | LW5 |

 <p>STRUCTURAL SOILS The Potteries Pottery Street Castleford W. Yorkshire WF10 1NJ</p>	Compiled By		Date
	 LORNA WHITWORTH		22/10/21
	Contract		Contract Ref:
Manor Farm, Carburton		785012	
			

IN SITU CALIFORNIA BEARING RATIO TEST


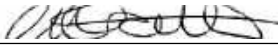

In accordance with BS1377:Part 9:1990

Position Ref: **CBR12** Depth (m): **0.00** Date: **21/10/21**



Test Details	Test Conditions	Test Results
Kentledge : Toyota Hilux Surcharge (kg) : 4.52 Surcharge Pressure (kPa) : 1	Weather : Fine Temperature (°C) : 8	CBR Value (%) : 21 Moisture Content (%) : 8.2
Sample Description	Test Notes	
Light brown sandy GRAVEL	Estimated particles >20 mm (%) : 4 Size and position of particles >20mm in relation to the plunger : Unknown	

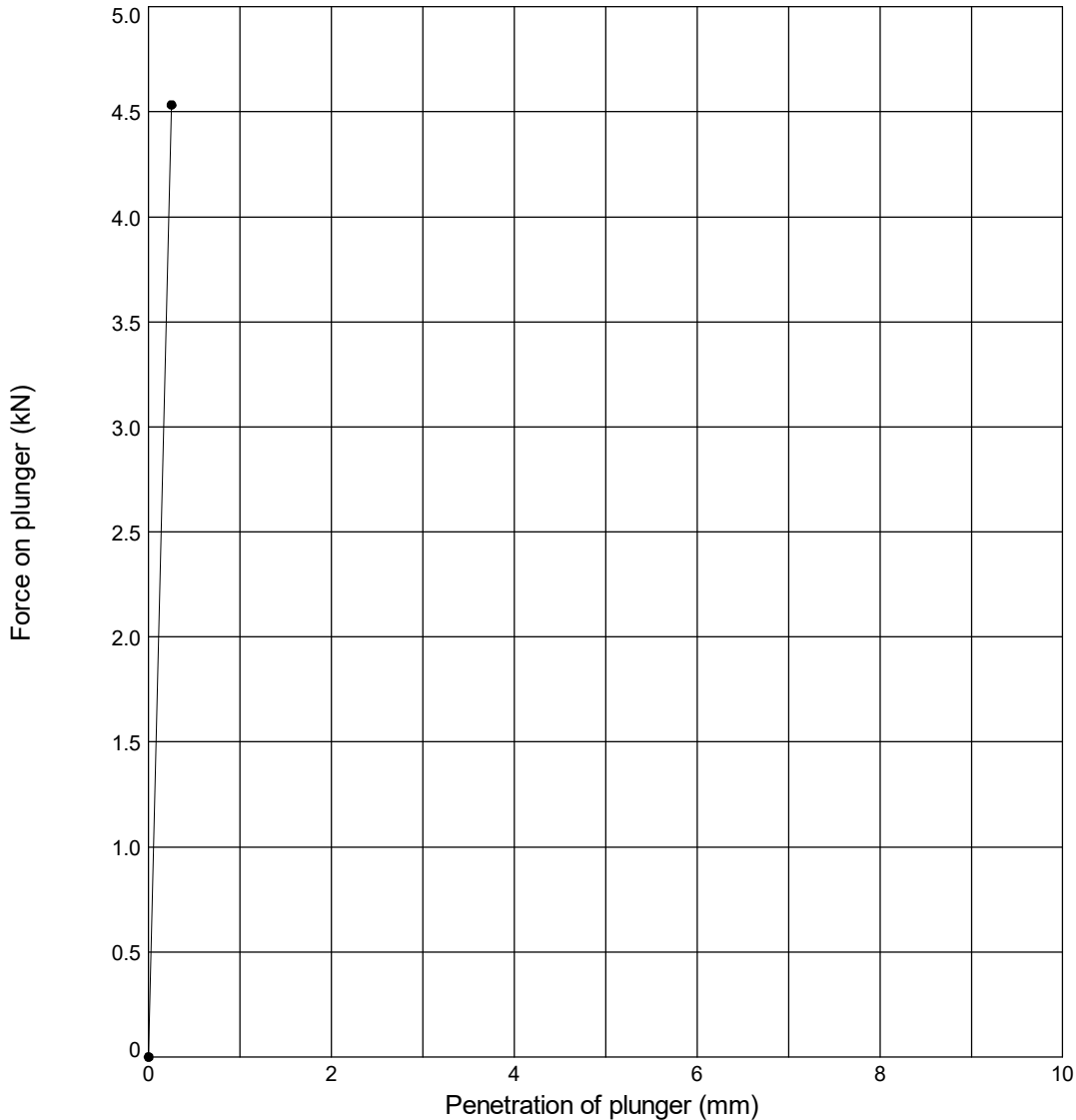
GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 ProjVersion: v8_07 | Graph 1 - CBR - IN SITU - A4P | 785012.GPJ - v10_01 | Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk | 22/10/21 - 10:17 | MDS3 |

 <p>STRUCTURAL SOILS The Potteries Pottery Street Castleford W. Yorkshire WF10 1NJ</p>	Compiled By		Date
	 LORNA WHITWORTH		22/10/21
	Contract		Contract Ref:
Manor Farm, Carburton		785012	
			

IN SITU CALIFORNIA BEARING RATIO TEST


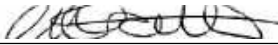

In accordance with BS1377:Part 9:1990

Position Ref: **CBR13** Depth (m): **0.00** Date: **21/10/21**



Test Details	Test Conditions	Test Results
Kentledge : Toyota Hilux Surcharge (kg) : 4.52 Surcharge Pressure (kPa) : 1	Weather : Fine Temperature (°C) : 8	CBR Value (%) : > 39 Moisture Content (%) : NA
Sample Description	Test Notes	
TARMAC	Estimated particles >20 mm (%) : 0 Size and position of particles >20mm in relation to the plunger : Unknown	

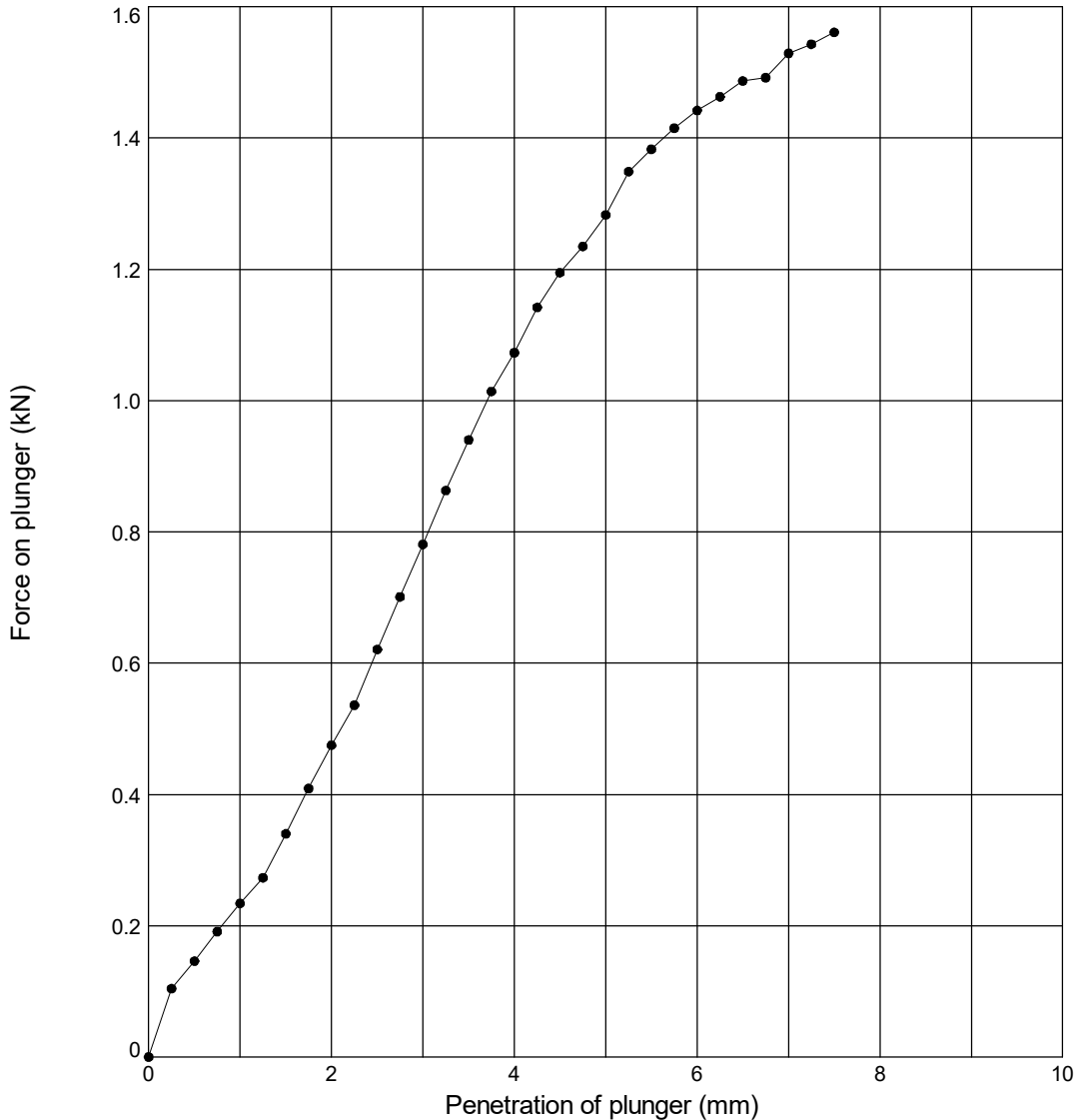
GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 ProjVersion: v8_07 | Graph 1 - CBR - IN SITU - A4P | 785012.GPJ - v10_01 | Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255. Fax: 01977-552299. Web: www.soils.co.uk. Email: ask@soils.co.uk. | 22/10/21 - 09:28 | LW5 |

 <p>STRUCTURAL SOILS The Potteries Pottery Street Castleford W. Yorkshire WF10 1NJ</p>	Compiled By		Date
	 LORNA WHITWORTH		22/10/21
	Contract		Contract Ref:
Manor Farm, Carburton		785012	
			


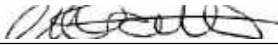

IN SITU CALIFORNIA BEARING RATIO TEST

In accordance with BS1377:Part 9:1990

Position Ref: **CBR14** Depth (m): **0.45** Date: **21/10/21**



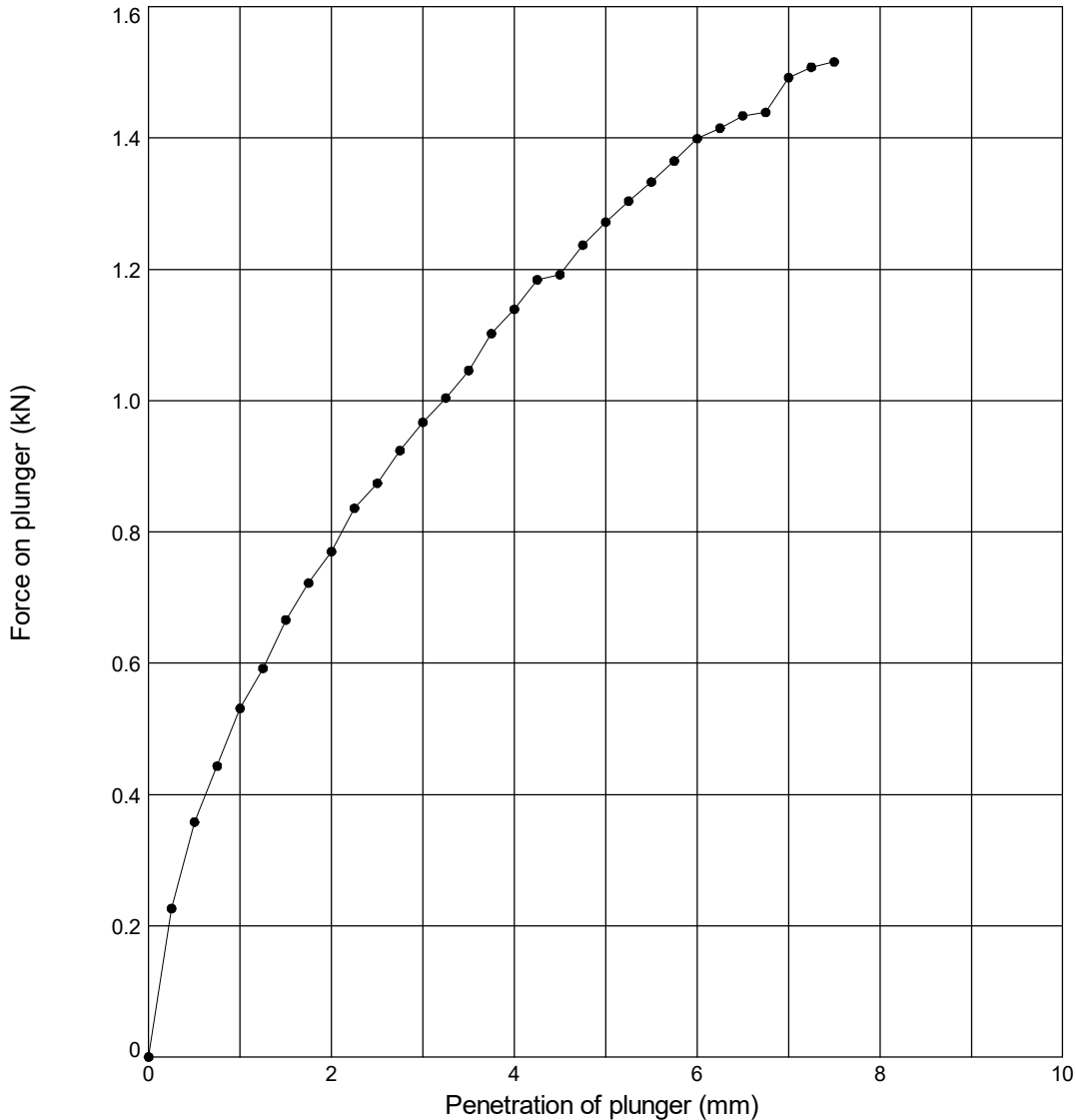
Test Details	Test Conditions	Test Results
Kentledge : Toyota Hilux Surcharge (kg) : 4.52 Surcharge Pressure (kPa) : 1	Weather : Fine Temperature (°C) : 11	CBR Value (%) : 6.4 Moisture Content (%) : 10
Sample Description	Test Notes	
Light grey brown gravelly SAND	Estimated particles >20 mm (%) : 0 Size and position of particles >20mm in relation to the plunger : Unknown	

 <p>STRUCTURAL SOILS The Potteries Pottery Street Castleford W. Yorkshire WF10 1NJ</p>	Compiled By		Date
	 LORNA WHITWORTH		22/10/21
	Contract		Contract Ref:
Manor Farm, Carburton		785012	
			

IN SITU CALIFORNIA BEARING RATIO TEST


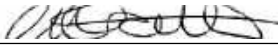

In accordance with BS1377:Part 9:1990

Position Ref: **CBR15** Depth (m): **0.45** Date: **22/10/21**



Test Details	Test Conditions	Test Results
Kentledge : Toyota Hilux Surcharge (kg) : 4.52 Surcharge Pressure (kPa) : 1	Weather : Fine Temperature (°C) : 12	CBR Value (%) : 6.6 Moisture Content (%) : 9.4
Sample Description	Test Notes	
Light brown gravelly SAND	Estimated particles >20 mm (%) : 1 Size and position of particles >20mm in relation to the plunger : Unknown	

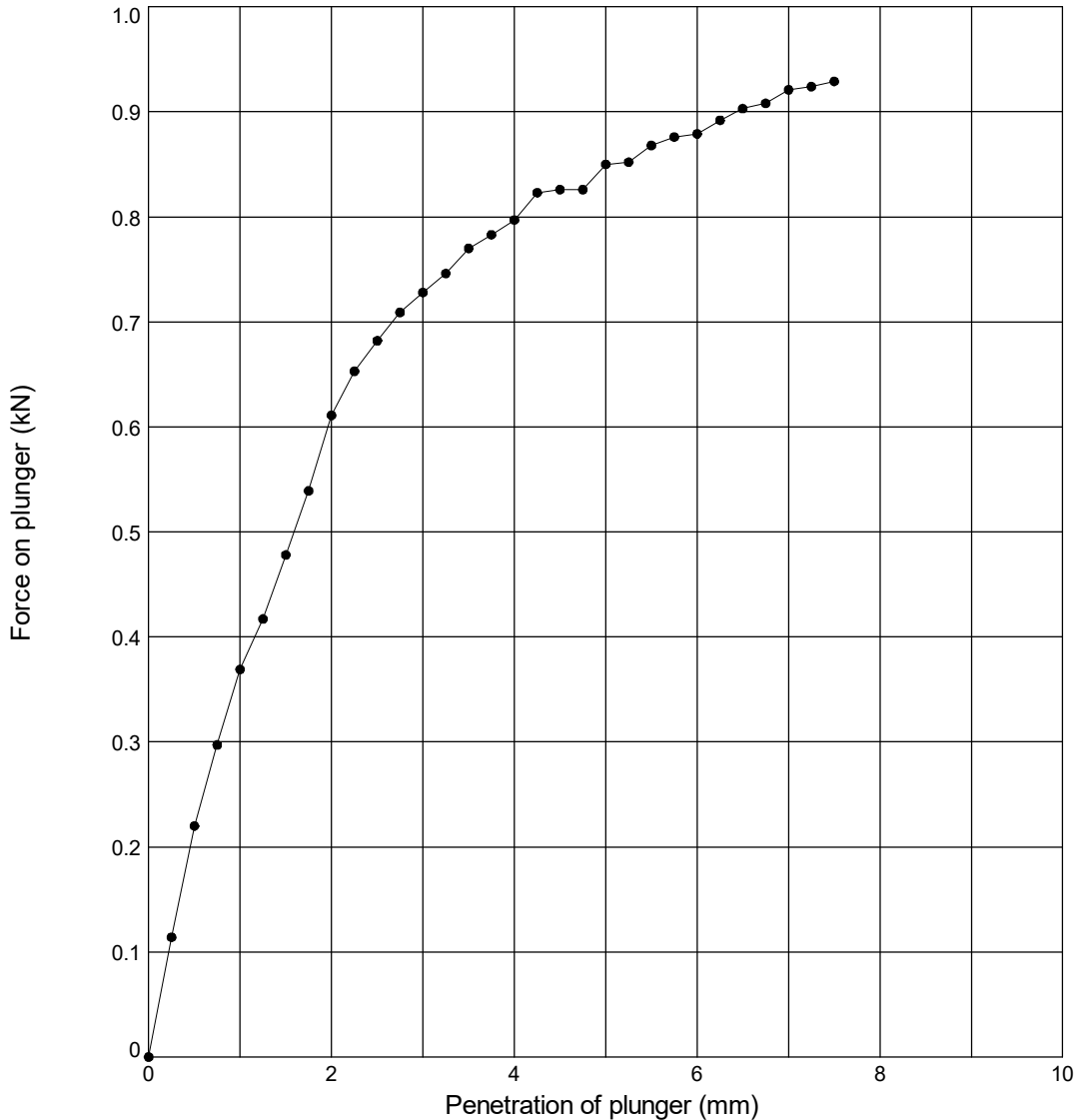
GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PjVersion: v8_07 | Graph 1 - CBR - IN SITU - A4P | 785012.GPJ - v10_01 | Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk | 22/10/21 - 09:28 | LW5 |

 <p>STRUCTURAL SOILS The Potteries Pottery Street Castleford W. Yorkshire WF10 1NJ</p>	Compiled By		Date
	 LORNA WHITWORTH		22/10/21
	Contract		Contract Ref:
Manor Farm, Carburton		785012	
			

IN SITU CALIFORNIA BEARING RATIO TEST


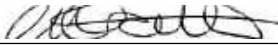

In accordance with BS1377:Part 9:1990

Position Ref: **CBR16** Depth (m): **0.45** Date: **22/10/21**



Test Details	Test Conditions	Test Results
Kentledge : Toyota Hilux Surcharge (kg) : 4.52 Surcharge Pressure (kPa) : 1	Weather : Fine Temperature (°C) : 12	CBR Value (%) : 5.2 Moisture Content (%) : 14
Sample Description	Test Notes	
Light brown slightly gravelly SAND	Estimated particles >20 mm (%) : 1 Size and position of particles >20mm in relation to the plunger : Unknown	

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PjVersion: v8_07 | Graph 1 - CBR - IN SITU - A4P | 785012.GPJ - v10_01 | Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255. Fax: 01977-552299. Web: www.soils.co.uk. Email: ask@soils.co.uk | 22/10/21 - 10:17 | MDS3 |

 <p>STRUCTURAL SOILS The Potteries Pottery Street Castleford W. Yorkshire WF10 1NJ</p>	Compiled By		Date
	 LORNA WHITWORTH		22/10/21
	Contract		Contract Ref:
Manor Farm, Carburton		785012	
			

Appendix VII

Soil Testing Results

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 21/11658
Issue Number: 1
Date: 16 November, 2021

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

Project Manager: Ami Cooper/Yasemin Kolsuz
Project Name: Manor Farm, Carburton
Project Ref: P21-00134
Order No: PO-05896
Date Samples Received: 20/10/21
Date Instructions Received: 27/10/21
Date Analysis Completed: 16/11/21

Approved by:



Holly Neary-King
Client Services Supervisor

Envirolab Job Number: 21/11658

Client Project Name: Manor Farm, Carburton

Client Project Ref: P21-00134

Lab Sample ID	21/11658/1	21/11658/2	21/11658/3	21/11658/4	21/11658/5	21/11658/6	21/11658/8	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	HDP01	HDP02	HDP03	HDP04	HDP05	HDP06	HDP08			
Depth to Top										
Depth To Bottom	0.40	0.30	0.20	0.50	0.60	0.30	0.20			
Date Sampled	18-Oct-21	18-Oct-21	18-Oct-21	18-Oct-21	18-Oct-21	18-Oct-21	18-Oct-21			
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES			
Sample Matrix Code	4AE	4A	4ABE	4ABE	4A	4AE	4AE			
% Stones >10mm _A	13.1	<0.1	<0.1	12.6	3.2	4.8	3.2			
pH _D ^{M#}	-	-	-	-	-	-	-	pH	0.01	A-T-031s
Sulphate (water sol 2:1) _D ^{M#}	-	-	-	-	-	-	-	g/l	0.01	A-T-026s
Sulphate (acid soluble) _D ^{M#}	-	-	-	-	-	-	-	mg/kg	200	A-T-028s
Organic matter _D ^{M#}	6.9	5.1	11.6	4.3	2.1	2.6	2.2	% w/w	0.1	A-T-032 OM
Arsenic _D ^{M#}	42	6	2	3	2	3	2	mg/kg	1	A-T-024s
Cadmium _D ^{M#}	0.6	0.7	0.7	1.0	<0.5	0.6	<0.5	mg/kg	0.5	A-T-024s
Copper _D ^{M#}	25	29	108	29	9	10	10	mg/kg	1	A-T-024s
Chromium _D ^{M#}	11	14	26	10	8	10	10	mg/kg	1	A-T-024s
Chromium (hexavalent) _D	<1	<1	<1	<1	<1	<1	<1	mg/kg	1	A-T-040s
Lead _D ^{M#}	72	43	75	86	31	39	45	mg/kg	1	A-T-024s
Mercury _D	1.12	1.82	1.95	0.96	<0.17	<0.17	<0.17	mg/kg	0.17	A-T-024s
Nickel _D ^{M#}	11	9	14	7	6	6	7	mg/kg	1	A-T-024s
Selenium _D ^{M#}	<1	<1	<1	<1	<1	<1	<1	mg/kg	1	A-T-024s
Zinc _D ^{M#}	84	117	134	85	37	42	46	mg/kg	5	A-T-024s
1.02 Atterburg 4Pt BS1377 1990 pt2 cl4.4,5,3+5.4 _A [#]	-	-	-	-	-	-	-	%	1	Subcon SS
1.01 % Moisture BS1377 1990 pt2 cl3.2 _A [#]	-	-	-	-	-	-	-	%	0.1	Subcon SS

Envirolab Job Number: 21/11658

Client Project Name: Manor Farm, Carburton

Client Project Ref: P21-00134

Lab Sample ID	21/11658/1	21/11658/2	21/11658/3	21/11658/4	21/11658/5	21/11658/6	21/11658/8	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	HDP01	HDP02	HDP03	HDP04	HDP05	HDP06	HDP08			
Depth to Top										
Depth To Bottom	0.40	0.30	0.20	0.50	0.60	0.30	0.20			
Date Sampled	18-Oct-21	18-Oct-21	18-Oct-21	18-Oct-21	18-Oct-21	18-Oct-21	18-Oct-21			
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES			
Sample Matrix Code	4AE	4A	4ABE	4ABE	4A	4AE	4AE			
Asbestos in Soil (inc. matrix)										
Asbestos in soil [#]	NAD	Chrysotile	Chrysotile	NAD	NAD	NAD	NAD			A-T-045
Asbestos Matrix (visual) _D	-	-	-	-	-	-	-			A-T-045
Asbestos Matrix (microscope) _D	-	Loose Fibres	Loose Fibres	-	-	-	-			A-T-045
Asbestos ACM - Suitable for Water Absorption Test? _D	N/A	N/A	N/A	N/A	N/A	N/A	N/A			A-T-045
Asbestos in Soil Quantification % (Hand Picking & Weighing)										
Asbestos in soil % composition (hand picking and weighing) _D	-	0.007	0.001	-	-	-	-	% w/w	0.001	A-T-054
Bulk Fibre ID (inc. matrix)										
Bulk Fibre Identification _D [#]	-	-	-	-	-	-	-			A-T-045
Bulk Fibre Identification Matrix (visual) _D	-	-	-	-	-	-	-			A-T-045
Bulk Fibre Identification - Suitable for Water Absorption Test? _D	-	-	-	-	-	-	-			Gravimetry

Envirolab Job Number: 21/11658

Client Project Name: Manor Farm, Carburton

Client Project Ref: P21-00134

Lab Sample ID	21/11658/1	21/11658/2	21/11658/3	21/11658/4	21/11658/5	21/11658/6	21/11658/8	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	HDP01	HDP02	HDP03	HDP04	HDP05	HDP06	HDP08			
Depth to Top										
Depth To Bottom	0.40	0.30	0.20	0.50	0.60	0.30	0.20			
Date Sampled	18-Oct-21	18-Oct-21	18-Oct-21	18-Oct-21	18-Oct-21	18-Oct-21	18-Oct-21			
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES			
Sample Matrix Code	4AE	4A	4ABE	4ABE	4A	4AE	4AE			
PAH-16MS										
Acenaphthene _A ^{M#}	0.89	3.64	14.2	0.10	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-019s
Acenaphthylene _A ^{M#}	<0.01	<0.10	0.27	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-019s
Anthracene _A ^{M#}	1.88	7.58	21.7	0.20	<0.02	<0.02	<0.02	mg/kg	0.02	A-T-019s
Benzo(a)anthracene _A ^{M#}	5.04	11.9	28.3	0.36	<0.04	<0.04	<0.04	mg/kg	0.04	A-T-019s
Benzo(a)pyrene _A ^{M#}	4.85	10.9	18.1	0.40	<0.04	<0.04	<0.04	mg/kg	0.04	A-T-019s
Benzo(b)fluoranthene _A ^{M#}	5.26	11.6	18.8	0.32	<0.05	<0.05	<0.05	mg/kg	0.05	A-T-019s
Benzo(ghi)perylene _A ^{M#}	2.04	4.30	6.93	0.22	<0.05	<0.05	<0.05	mg/kg	0.05	A-T-019s
Benzo(k)fluoranthene _A ^{M#}	1.55	4.88	8.77	0.21	<0.07	<0.07	<0.07	mg/kg	0.07	A-T-019s
Chrysene _A ^{M#}	4.76	16.2	35.2	0.42	<0.06	<0.06	<0.06	mg/kg	0.06	A-T-019s
Dibenzo(ah)anthracene _A ^{M#}	0.35	0.73	1.50	<0.04	<0.04	<0.04	<0.04	mg/kg	0.04	A-T-019s
Fluoranthene _A ^{M#}	11.6	33.1	75.7	0.89	<0.08	<0.08	<0.08	mg/kg	0.08	A-T-019s
Fluorene _A ^{M#}	0.65	2.32	10.2	0.06	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-019s
Indeno(123-cd)pyrene _A ^{M#}	2.41	5.18	8.60	0.22	<0.03	<0.03	<0.03	mg/kg	0.03	A-T-019s
Naphthalene _A ^{M#}	0.15	0.71	6.95	<0.03	<0.03	<0.03	<0.03	mg/kg	0.03	A-T-019s
Phenanthrene _A ^{M#}	6.99	25.5	123	0.64	0.04	<0.03	<0.03	mg/kg	0.03	A-T-019s
Pyrene _A ^{M#}	10.2	29.9	65	0.77	<0.07	<0.07	<0.07	mg/kg	0.07	A-T-019s
Total PAH-16MS _A ^{M#}	58.6	168	443	4.81	<0.08	<0.08	<0.08	mg/kg	0.01	A-T-019s

Envirolab Job Number: 21/11658

Client Project Name: Manor Farm, Carburton

Client Project Ref: P21-00134

Lab Sample ID	21/11658/1	21/11658/2	21/11658/3	21/11658/4	21/11658/5	21/11658/6	21/11658/8	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	HDP01	HDP02	HDP03	HDP04	HDP05	HDP06	HDP08			
Depth to Top										
Depth To Bottom	0.40	0.30	0.20	0.50	0.60	0.30	0.20			
Date Sampled	18-Oct-21	18-Oct-21	18-Oct-21	18-Oct-21	18-Oct-21	18-Oct-21	18-Oct-21			
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES			
Sample Matrix Code	4AE	4A	4ABE	4ABE	4A	4AE	4AE			
TPH CWG										
Ali >C5-C6 _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
Ali >C6-C8 _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
Ali >C8-C10 _A	<1	<5	<10	<1	<1	<1	<1	mg/kg	1	A-T-055s
Ali >C10-C12 _A ^{M#}	<1	<5	<10	<1	<1	<1	<1	mg/kg	1	A-T-055s
Ali >C12-C16 _A ^{M#}	2	<5	<10	<1	<1	<1	<1	mg/kg	1	A-T-055s
Ali >C16-C21 _A ^{M#}	6	6	<10	<1	<1	<1	<1	mg/kg	1	A-T-055s
Ali >C21-C35 _A ^{M#}	16	161	152	7	2	3	3	mg/kg	1	A-T-055s
Total Aliphatics _A	24	167	152	7	2	3	3	mg/kg	1	A-T-055s
Aro >C5-C7 _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
Aro >C7-C8 _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
Aro >C8-C10 _A	<1	<5	<10	<1	<1	<1	<1	mg/kg	1	A-T-055s
Aro >C10-C12 _A	4	8	16	<1	<1	<1	<1	mg/kg	1	A-T-055s
Aro >C12-C16 _A	24	70	117	2	<1	<1	<1	mg/kg	1	A-T-055s
Aro >C16-C21 _A ^{M#}	111	365	604	4	<1	<1	<1	mg/kg	1	A-T-055s
Aro >C21-C35 _A ^{M#}	296	1090	1830	16	4	3	3	mg/kg	1	A-T-055s
Total Aromatics _A	435	1540	2580	22	4	3	3	mg/kg	1	A-T-055s
TPH (Ali & Aro >C5-C35) _A	459	1700	2730	29	6	6	6	mg/kg	1	A-T-055s
BTEX - Benzene _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
BTEX - Toluene _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
BTEX - Ethyl Benzene _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
BTEX - m & p Xylene _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
BTEX - o Xylene _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
MTBE _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s

Envirolab Job Number: 21/11658

Client Project Name: Manor Farm, Carburton

Client Project Ref: P21-00134

Lab Sample ID	21/11658/9	21/11658/10	21/11658/11	21/11658/12	21/11658/14	21/11658/15	21/11658/18	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	HDP09	HDP10	HDP11	TP03	TP06	TP07	TP10			
Depth to Top										
Depth To Bottom	0.40	0.30	0.10	2.00	2.00	0.20	1.50			
Date Sampled	20-Oct-21	20-Oct-21	20-Oct-21	20-Oct-21	21-Oct-21	21-Oct-21	21-Oct-21			
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - D	Soil - D	Soil - ES	Soil - D			
Sample Matrix Code	4AE	6AE	6AE	4A	4A	6AE	4A			
% Stones >10mm _A	5.6	6.6	10.0	11.2	9.4	0.6	<0.1			
pH _D ^{M#}	-	-	-	9.46	8.05	-	8.22	pH	0.01	A-T-031s
Sulphate (water sol 2:1) _D ^{M#}	-	-	-	<0.01	<0.01	-	<0.01	g/l	0.01	A-T-026s
Sulphate (acid soluble) _D ^{M#}	-	-	-	-	-	-	-	mg/kg	200	A-T-028s
Organic matter _D ^{M#}	1.5	3.7	4.5	-	-	6.9	-	% w/w	0.1	A-T-032 OM
Arsenic _D ^{M#}	4	2	5	-	-	9	-	mg/kg	1	A-T-024s
Cadmium _D ^{M#}	<0.5	<0.5	0.5	-	-	<0.5	-	mg/kg	0.5	A-T-024s
Copper _D ^{M#}	15	13	14	-	-	17	-	mg/kg	1	A-T-024s
Chromium _D ^{M#}	8	10	8	-	-	22	-	mg/kg	1	A-T-024s
Chromium (hexavalent) _D	<1	<1	<1	-	-	<1	-	mg/kg	1	A-T-040s
Lead _D ^{M#}	49	44	97	-	-	42	-	mg/kg	1	A-T-024s
Mercury _D	0.23	0.24	0.18	-	-	0.44	-	mg/kg	0.17	A-T-024s
Nickel _D ^{M#}	8	8	7	-	-	8	-	mg/kg	1	A-T-024s
Selenium _D ^{M#}	<1	<1	<1	-	-	<1	-	mg/kg	1	A-T-024s
Zinc _D ^{M#}	49	43	71	-	-	112	-	mg/kg	5	A-T-024s
1.02 Atterburg 4Pt BS1377 1990 pt2 cl4.4,5,3+5.4 _A [#]	-	-	-	-	-	-	-	%	1	Subcon SS
1.01 % Moisture BS1377 1990 pt2 cl3.2 _A [#]	-	-	-	-	-	-	-	%	0.1	Subcon SS

Envirolab Job Number: 21/11658

Client Project Name: Manor Farm, Carburton

Client Project Ref: P21-00134

Lab Sample ID	21/11658/9	21/11658/10	21/11658/11	21/11658/12	21/11658/14	21/11658/15	21/11658/18	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	HDP09	HDP10	HDP11	TP03	TP06	TP07	TP10			
Depth to Top										
Depth To Bottom	0.40	0.30	0.10	2.00	2.00	0.20	1.50			
Date Sampled	20-Oct-21	20-Oct-21	20-Oct-21	20-Oct-21	21-Oct-21	21-Oct-21	21-Oct-21			
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - D	Soil - D	Soil - ES	Soil - D			
Sample Matrix Code	4AE	6AE	6AE	4A	4A	6AE	4A			
Asbestos in Soil (inc. matrix)										
Asbestos in soil _D [#]	NAD	NAD	NAD	-	-	NAD	-			A-T-045
Asbestos Matrix (visual) _D	-	-	-	-	-	-	-			A-T-045
Asbestos Matrix (microscope) _D	-	-	-	-	-	-	-			A-T-045
Asbestos ACM - Suitable for Water Absorption Test? _D	N/A	N/A	N/A	-	-	N/A	-			A-T-045
Asbestos in Soil Quantification % (Hand Picking & Weighing)										
Asbestos in soil % composition (hand picking and weighing) _D	-	-	-	-	-	-	-	% w/w	0.001	A-T-054
Bulk Fibre ID (inc. matrix)										
Bulk Fibre Identification _D [#]	-	-	-	-	-	-	-			A-T-045
Bulk Fibre Identification Matrix (visual) _D	-	-	-	-	-	-	-			A-T-045
Bulk Fibre Identification - Suitable for Water Absorption Test? _D	-	-	-	-	-	-	-			Gravimetry

Envirolab Job Number: 21/11658

Client Project Name: Manor Farm, Carburton

Client Project Ref: P21-00134

Lab Sample ID	21/11658/9	21/11658/10	21/11658/11	21/11658/12	21/11658/14	21/11658/15	21/11658/18	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	HDP09	HDP10	HDP11	TP03	TP06	TP07	TP10			
Depth to Top										
Depth To Bottom	0.40	0.30	0.10	2.00	2.00	0.20	1.50			
Date Sampled	20-Oct-21	20-Oct-21	20-Oct-21	20-Oct-21	21-Oct-21	21-Oct-21	21-Oct-21			
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - D	Soil - D	Soil - ES	Soil - D			
Sample Matrix Code	4AE	6AE	6AE	4A	4A	6AE	4A			
PAH-16MS										
Acenaphthene _A ^{M#}	<0.01	<0.01	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-019s
Acenaphthylene _A ^{M#}	<0.01	<0.01	0.03	-	-	<0.01	-	mg/kg	0.01	A-T-019s
Anthracene _A ^{M#}	<0.02	<0.02	0.04	-	-	0.02	-	mg/kg	0.02	A-T-019s
Benzo(a)anthracene _A ^{M#}	<0.04	<0.04	0.20	-	-	0.08	-	mg/kg	0.04	A-T-019s
Benzo(a)pyrene _A ^{M#}	<0.04	0.07	0.36	-	-	0.15	-	mg/kg	0.04	A-T-019s
Benzo(b)fluoranthene _A ^{M#}	<0.05	<0.05	0.31	-	-	0.15	-	mg/kg	0.05	A-T-019s
Benzo(ghi)perylene _A ^{M#}	<0.05	<0.05	0.26	-	-	0.13	-	mg/kg	0.05	A-T-019s
Benzo(k)fluoranthene _A ^{M#}	<0.07	<0.07	0.15	-	-	0.09	-	mg/kg	0.07	A-T-019s
Chrysene _A ^{M#}	<0.06	0.07	0.29	-	-	0.19	-	mg/kg	0.06	A-T-019s
Dibenzo(ah)anthracene _A ^{M#}	<0.04	<0.04	<0.04	-	-	<0.04	-	mg/kg	0.04	A-T-019s
Fluoranthene _A ^{M#}	<0.08	0.09	0.41	-	-	0.20	-	mg/kg	0.08	A-T-019s
Fluorene _A ^{M#}	<0.01	<0.01	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-019s
Indeno(123-cd)pyrene _A ^{M#}	<0.03	<0.03	0.28	-	-	0.11	-	mg/kg	0.03	A-T-019s
Naphthalene _A ^{M#}	<0.03	<0.03	<0.03	-	-	<0.03	-	mg/kg	0.03	A-T-019s
Phenanthrene _A ^{M#}	<0.03	<0.03	0.08	-	-	0.07	-	mg/kg	0.03	A-T-019s
Pyrene _A ^{M#}	<0.07	0.08	0.40	-	-	0.20	-	mg/kg	0.07	A-T-019s
Total PAH-16MS _A ^{M#}	<0.08	0.31	2.81	-	-	1.39	-	mg/kg	0.01	A-T-019s

Envirolab Job Number: 21/11658

Client Project Name: Manor Farm, Carburton

Client Project Ref: P21-00134

Lab Sample ID	21/11658/9	21/11658/10	21/11658/11	21/11658/12	21/11658/14	21/11658/15	21/11658/18	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	HDP09	HDP10	HDP11	TP03	TP06	TP07	TP10			
Depth to Top										
Depth To Bottom	0.40	0.30	0.10	2.00	2.00	0.20	1.50			
Date Sampled	20-Oct-21	20-Oct-21	20-Oct-21	20-Oct-21	21-Oct-21	21-Oct-21	21-Oct-21			
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - D	Soil - D	Soil - ES	Soil - D			
Sample Matrix Code	4AE	6AE	6AE	4A	4A	6AE	4A			
TPH CWG										
Ali >C5-C6 _A [#]	<0.01	<0.01	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-022s
Ali >C6-C8 _A [#]	<0.01	<0.01	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-022s
Ali >C8-C10 _A	<1	<1	<1	-	-	<1	-	mg/kg	1	A-T-055s
Ali >C10-C12 _A ^{M#}	<1	<1	<1	-	-	<1	-	mg/kg	1	A-T-055s
Ali >C12-C16 _A ^{M#}	<1	<1	<1	-	-	<1	-	mg/kg	1	A-T-055s
Ali >C16-C21 _A ^{M#}	<1	<1	2	-	-	<1	-	mg/kg	1	A-T-055s
Ali >C21-C35 _A ^{M#}	1	5	15	-	-	27	-	mg/kg	1	A-T-055s
Total Aliphatics _A	1	5	17	-	-	27	-	mg/kg	1	A-T-055s
Aro >C5-C7 _A [#]	<0.01	<0.01	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-022s
Aro >C7-C8 _A [#]	<0.01	<0.01	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-022s
Aro >C8-C10 _A	<1	<1	<1	-	-	<1	-	mg/kg	1	A-T-055s
Aro >C10-C12 _A	<1	<1	<1	-	-	<1	-	mg/kg	1	A-T-055s
Aro >C12-C16 _A	<1	<1	3	-	-	2	-	mg/kg	1	A-T-055s
Aro >C16-C21 _A ^{M#}	<1	2	7	-	-	4	-	mg/kg	1	A-T-055s
Aro >C21-C35 _A ^{M#}	1	7	22	-	-	27	-	mg/kg	1	A-T-055s
Total Aromatics _A	1	9	33	-	-	33	-	mg/kg	1	A-T-055s
TPH (Ali & Aro >C5-C35) _A	2	14	50	-	-	60	-	mg/kg	1	A-T-055s
BTEX - Benzene _A [#]	<0.01	<0.01	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-022s
BTEX - Toluene _A [#]	<0.01	<0.01	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-022s
BTEX - Ethyl Benzene _A [#]	<0.01	<0.01	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-022s
BTEX - m & p Xylene _A [#]	<0.01	<0.01	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-022s
BTEX - o Xylene _A [#]	<0.01	<0.01	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-022s
MTBE _A [#]	<0.01	<0.01	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-022s

Envirolab Job Number: 21/11658

Client Project Name: Manor Farm, Carburton

Client Project Ref: P21-00134

Lab Sample ID	21/11658/19	21/11658/20	21/11658/21	21/11658/22	21/11658/23	21/11658/24	21/11658/25	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP11	TP11	TP12	TP13	TP13	TP17	TP17			
Depth to Top										
Depth To Bottom	1.70	1.80	0.30	0.60	1.30	0.20	1.30			
Date Sampled	21-Oct-21	21-Oct-21	21-Oct-21	21-Oct-21	21-Oct-21	22-Oct-21	22-Oct-21			
Sample Type	Soil - B	Solid - Wood	Soil - ES	Soil - ES	Soil - B	Soil - ES	Soil - D			
Sample Matrix Code	5A	7	4A	4A	5A	4AB	4A			
% Stones >10mm _A	<0.1	-	<0.1	6.9	4.0	<0.1	<0.1			
pH ^{M#}	7.03	-	-	-	6.93	-	7.64	pH	0.01	A-T-031s
Sulphate (water sol 2:1) _D ^{M#}	0.02	-	-	-	<0.01	-	<0.01	g/l	0.01	A-T-026s
Sulphate (acid soluble) _D ^{M#}	210	-	-	-	200	-	-	mg/kg	200	A-T-028s
Organic matter _D ^{M#}	-	-	3.4	0.6	-	5.8	-	% w/w	0.1	A-T-032 OM
Arsenic _D ^{M#}	-	-	4	3	-	5	-	mg/kg	1	A-T-024s
Cadmium _D ^{M#}	-	-	<0.5	<0.5	-	0.6	-	mg/kg	0.5	A-T-024s
Copper _D ^{M#}	-	-	12	6	-	14	-	mg/kg	1	A-T-024s
Chromium _D ^{M#}	-	-	12	9	-	9	-	mg/kg	1	A-T-024s
Chromium (hexavalent) _D	-	-	<1	<1	-	<1	-	mg/kg	1	A-T-040s
Lead _D ^{M#}	-	-	58	16	-	62	-	mg/kg	1	A-T-024s
Mercury _D	-	-	<0.17	<0.17	-	0.52	-	mg/kg	0.17	A-T-024s
Nickel _D ^{M#}	-	-	8	7	-	7	-	mg/kg	1	A-T-024s
Selenium _D ^{M#}	-	-	<1	<1	-	1	-	mg/kg	1	A-T-024s
Zinc _D ^{M#}	-	-	74	32	-	73	-	mg/kg	5	A-T-024s
1.02 Atterburg 4Pt BS1377 1990 pt2 cl4,4,5,3+5,4 _A [#]	Appended	-	-	-	Appended	-	-	%	1	Subcon SS
1.01 % Moisture BS1377 1990 pt2 cl3,2 _A [#]	Appended	-	-	-	Appended	-	-	%	0.1	Subcon SS

Envirolab Job Number: 21/11658

Client Project Name: Manor Farm, Carburton

Client Project Ref: P21-00134

Lab Sample ID	21/11658/19	21/11658/20	21/11658/21	21/11658/22	21/11658/23	21/11658/24	21/11658/25	Units	Limit of Detection	Method ref			
Client Sample No													
Client Sample ID	TP11	TP11	TP12	TP13	TP13	TP17	TP17						
Depth to Top													
Depth To Bottom	1.70	1.80	0.30	0.60	1.30	0.20	1.30						
Date Sampled	21-Oct-21	21-Oct-21	21-Oct-21	21-Oct-21	21-Oct-21	22-Oct-21	22-Oct-21						
Sample Type	Soil - B	Solid - Wood	Soil - ES	Soil - ES	Soil - B	Soil - ES	Soil - D						
Sample Matrix Code	5A	7	4A	4A	5A	4AB	4A						
Asbestos in Soil (inc. matrix)													
Asbestos in soil [#]	NAD	-	NAD	NAD	NAD	NAD	-			A-T-045			
Asbestos Matrix (visual) _D	-	-	-	-	-	-	-			A-T-045			
Asbestos Matrix (microscope) _D	-	-	-	-	-	-	-			A-T-045			
Asbestos ACM - Suitable for Water Absorption Test? _D	N/A	-	N/A	N/A	N/A	N/A	-			A-T-045			
Asbestos in Soil Quantification % (Hand Picking & Weighing)													
Asbestos in soil % composition (hand picking and weighing) _D	-	-	-	-	-	-	-	% w/w	0.001	A-T-054			
Bulk Fibre ID (inc. matrix)													
Bulk Fibre Identification _D [#]	-	NAD	-	-	-	-	-			A-T-045			
Bulk Fibre Identification Matrix (visual) _D	-	-	-	-	-	-	-			A-T-045			
Bulk Fibre Identification - Suitable for Water Absorption Test? _D	-	N/A	-	-	-	-	-			Gravimetry			

Envirolab Job Number: 21/11658

Client Project Name: Manor Farm, Carburton

Client Project Ref: P21-00134

Lab Sample ID	21/11658/19	21/11658/20	21/11658/21	21/11658/22	21/11658/23	21/11658/24	21/11658/25	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP11	TP11	TP12	TP13	TP13	TP17	TP17			
Depth to Top										
Depth To Bottom	1.70	1.80	0.30	0.60	1.30	0.20	1.30			
Date Sampled	21-Oct-21	21-Oct-21	21-Oct-21	21-Oct-21	21-Oct-21	22-Oct-21	22-Oct-21			
Sample Type	Soil - B	Solid - Wood	Soil - ES	Soil - ES	Soil - B	Soil - ES	Soil - D			
Sample Matrix Code	5A	7	4A	4A	5A	4AB	4A			
PAH-16MS										
Acenaphthene _A ^{M#}	-	-	<0.01	<0.01	-	0.02	-	mg/kg	0.01	A-T-019s
Acenaphthylene _A ^{M#}	-	-	<0.01	<0.01	-	<0.01	-	mg/kg	0.01	A-T-019s
Anthracene _A ^{M#}	-	-	<0.02	<0.02	-	0.08	-	mg/kg	0.02	A-T-019s
Benzo(a)anthracene _A ^{M#}	-	-	<0.04	<0.04	-	0.52	-	mg/kg	0.04	A-T-019s
Benzo(a)pyrene _A ^{M#}	-	-	0.07	<0.04	-	0.81	-	mg/kg	0.04	A-T-019s
Benzo(b)fluoranthene _A ^{M#}	-	-	0.06	<0.05	-	0.78	-	mg/kg	0.05	A-T-019s
Benzo(ghi)perylene _A ^{M#}	-	-	<0.05	<0.05	-	0.54	-	mg/kg	0.05	A-T-019s
Benzo(k)fluoranthene _A ^{M#}	-	-	<0.07	<0.07	-	0.28	-	mg/kg	0.07	A-T-019s
Chrysene _A ^{M#}	-	-	0.08	<0.06	-	0.66	-	mg/kg	0.06	A-T-019s
Dibenzo(ah)anthracene _A ^{M#}	-	-	<0.04	<0.04	-	0.09	-	mg/kg	0.04	A-T-019s
Fluoranthene _A ^{M#}	-	-	0.09	<0.08	-	0.92	-	mg/kg	0.08	A-T-019s
Fluorene _A ^{M#}	-	-	<0.01	<0.01	-	0.01	-	mg/kg	0.01	A-T-019s
Indeno(123-cd)pyrene _A ^{M#}	-	-	0.04	<0.03	-	0.51	-	mg/kg	0.03	A-T-019s
Naphthalene _A ^{M#}	-	-	<0.03	<0.03	-	<0.03	-	mg/kg	0.03	A-T-019s
Phenanthrene _A ^{M#}	-	-	0.03	<0.03	-	0.24	-	mg/kg	0.03	A-T-019s
Pyrene _A ^{M#}	-	-	0.09	<0.07	-	0.87	-	mg/kg	0.07	A-T-019s
Total PAH-16MS _A ^{M#}	-	-	0.46	<0.08	-	6.33	-	mg/kg	0.01	A-T-019s

Envirolab Job Number: 21/11658

Client Project Name: Manor Farm, Carburton

Client Project Ref: P21-00134

Lab Sample ID	21/11658/19	21/11658/20	21/11658/21	21/11658/22	21/11658/23	21/11658/24	21/11658/25	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP11	TP11	TP12	TP13	TP13	TP17	TP17			
Depth to Top										
Depth To Bottom	1.70	1.80	0.30	0.60	1.30	0.20	1.30			
Date Sampled	21-Oct-21	21-Oct-21	21-Oct-21	21-Oct-21	21-Oct-21	22-Oct-21	22-Oct-21			
Sample Type	Soil - B	Solid - Wood	Soil - ES	Soil - ES	Soil - B	Soil - ES	Soil - D			
Sample Matrix Code	5A	7	4A	4A	5A	4AB	4A			
TPH CWG										
Ali >C5-C6 _A [#]	-	-	<0.01	<0.01	-	<0.01	-	mg/kg	0.01	A-T-022s
Ali >C6-C8 _A [#]	-	-	<0.01	<0.01	-	<0.01	-	mg/kg	0.01	A-T-022s
Ali >C8-C10 _A	-	-	<1	<1	-	<1	-	mg/kg	1	A-T-055s
Ali >C10-C12 _A ^{M#}	-	-	<1	<1	-	<1	-	mg/kg	1	A-T-055s
Ali >C12-C16 _A ^{M#}	-	-	<1	<1	-	<1	-	mg/kg	1	A-T-055s
Ali >C16-C21 _A ^{M#}	-	-	<1	<1	-	2	-	mg/kg	1	A-T-055s
Ali >C21-C35 _A ^{M#}	-	-	3	<1	-	45	-	mg/kg	1	A-T-055s
Total Aliphatics _A	-	-	3	<1	-	48	-	mg/kg	1	A-T-055s
Aro >C5-C7 _A [#]	-	-	<0.01	<0.01	-	<0.01	-	mg/kg	0.01	A-T-022s
Aro >C7-C8 _A [#]	-	-	<0.01	<0.01	-	<0.01	-	mg/kg	0.01	A-T-022s
Aro >C8-C10 _A	-	-	<1	<1	-	<1	-	mg/kg	1	A-T-055s
Aro >C10-C12 _A	-	-	<1	<1	-	<1	-	mg/kg	1	A-T-055s
Aro >C12-C16 _A	-	-	<1	<1	-	2	-	mg/kg	1	A-T-055s
Aro >C16-C21 _A ^{M#}	-	-	<1	<1	-	11	-	mg/kg	1	A-T-055s
Aro >C21-C35 _A ^{M#}	-	-	4	<1	-	97	-	mg/kg	1	A-T-055s
Total Aromatics _A	-	-	4	<1	-	111	-	mg/kg	1	A-T-055s
TPH (Ali & Aro >C5-C35) _A	-	-	8	<1	-	158	-	mg/kg	1	A-T-055s
BTEX - Benzene _A [#]	-	-	<0.01	<0.01	-	<0.01	-	mg/kg	0.01	A-T-022s
BTEX - Toluene _A [#]	-	-	<0.01	<0.01	-	<0.01	-	mg/kg	0.01	A-T-022s
BTEX - Ethyl Benzene _A [#]	-	-	<0.01	<0.01	-	<0.01	-	mg/kg	0.01	A-T-022s
BTEX - m & p Xylene _A [#]	-	-	<0.01	<0.01	-	<0.01	-	mg/kg	0.01	A-T-022s
BTEX - o Xylene _A [#]	-	-	<0.01	<0.01	-	<0.01	-	mg/kg	0.01	A-T-022s
MTBE _A [#]	-	-	<0.01	<0.01	-	<0.01	-	mg/kg	0.01	A-T-022s

Envirolab Job Number: 21/11658

Client Project Name: Manor Farm, Carburton

Client Project Ref: P21-00134

Lab Sample ID	21/11658/26	21/11658/27	21/11658/28	21/11658/29	21/11658/30			Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP18	HDP12	HDP13	HDP14	HDP15					
Depth to Top										
Depth To Bottom	0.50	0.50	0.20	0.20	0.60					
Date Sampled	22-Oct-21	22-Oct-21	22-Oct-21	22-Oct-21	22-Oct-21					
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES					
Sample Matrix Code	4AE	6AE	6AE	6AE	4A					
% Stones >10mm _A	<0.1	4.0	16.6	2.3	8.5					
pH _D ^{M#}	-	-	-	-	-			pH	0.01	A-T-031s
Sulphate (water sol 2:1) _D ^{M#}	-	-	-	-	-			g/l	0.01	A-T-026s
Sulphate (acid soluble) _D ^{M#}	-	-	-	-	-			mg/kg	200	A-T-028s
Organic matter _D ^{M#}	0.3	2.7	13.3	5.1	1.6			% w/w	0.1	A-T-032 OM
Arsenic _D ^{M#}	1	8	12	6	5			mg/kg	1	A-T-024s
Cadmium _D ^{M#}	<0.5	0.6	0.8	0.9	<0.5			mg/kg	0.5	A-T-024s
Copper _D ^{M#}	6	17	40	24	15			mg/kg	1	A-T-024s
Chromium _D ^{M#}	8	9	13	10	8			mg/kg	1	A-T-024s
Chromium (hexavalent) _D	<1	<1	<1	<1	<1			mg/kg	1	A-T-040s
Lead _D ^{M#}	10	74	216	239	59			mg/kg	1	A-T-024s
Mercury _D	<0.17	0.23	0.75	<0.17	<0.17			mg/kg	0.17	A-T-024s
Nickel _D ^{M#}	7	8	15	10	6			mg/kg	1	A-T-024s
Selenium _D ^{M#}	<1	<1	<1	<1	<1			mg/kg	1	A-T-024s
Zinc _D ^{M#}	30	91	206	153	61			mg/kg	5	A-T-024s
1.02 Atterburg 4Pt BS1377 1990 pt2 cl4,4,5,3+5,4 _A [#]	-	-	-	-	-			%	1	Subcon SS
1.01 % Moisture BS1377 1990 pt2 cl3,2 _A [#]	-	-	-	-	-			%	0.1	Subcon SS

Envirolab Job Number: 21/11658

Client Project Name: Manor Farm, Carburton

Client Project Ref: P21-00134

Lab Sample ID	21/11658/26	21/11658/27	21/11658/28	21/11658/29	21/11658/30			Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP18	HDP12	HDP13	HDP14	HDP15					
Depth to Top										
Depth To Bottom	0.50	0.50	0.20	0.20	0.60					
Date Sampled	22-Oct-21	22-Oct-21	22-Oct-21	22-Oct-21	22-Oct-21					
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES					
Sample Matrix Code	4AE	6AE	6AE	6AE	4A					
Asbestos in Soil (inc. matrix)										
Asbestos in soil [#]	NAD	NAD	NAD	NAD	NAD					A-T-045
Asbestos Matrix (visual) _D	-	-	-	-	-					A-T-045
Asbestos Matrix (microscope) _D	-	-	-	-	-					A-T-045
Asbestos ACM - Suitable for Water Absorption Test? _D	N/A	N/A	N/A	N/A	N/A					A-T-045
Asbestos in Soil Quantification % (Hand Picking & Weighing)										
Asbestos in soil % composition (hand picking and weighing) _D	-	-	-	-	-			% w/w	0.001	A-T-054
Bulk Fibre ID (inc. matrix)										
Bulk Fibre Identification _D [#]	-	-	-	-	-					A-T-045
Bulk Fibre Identification Matrix (visual) _D	-	-	-	-	-					A-T-045
Bulk Fibre Identification - Suitable for Water Absorption Test? _D	-	-	-	-	-					Gravimetry

Envirolab Job Number: 21/11658

Client Project Name: Manor Farm, Carburton

Client Project Ref: P21-00134

Lab Sample ID	21/11658/26	21/11658/27	21/11658/28	21/11658/29	21/11658/30			Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP18	HDP12	HDP13	HDP14	HDP15					
Depth to Top										
Depth To Bottom	0.50	0.50	0.20	0.20	0.60					
Date Sampled	22-Oct-21	22-Oct-21	22-Oct-21	22-Oct-21	22-Oct-21					
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES					
Sample Matrix Code	4AE	6AE	6AE	6AE	4A					
PAH-16MS										
Acenaphthene _A ^{M#}	<0.01	<0.01	<0.01	0.01	<0.01			mg/kg	0.01	A-T-019s
Acenaphthylene _A ^{M#}	<0.01	<0.01	<0.01	<0.01	<0.01			mg/kg	0.01	A-T-019s
Anthracene _A ^{M#}	<0.02	<0.02	0.06	0.03	<0.02			mg/kg	0.02	A-T-019s
Benzo(a)anthracene _A ^{M#}	<0.04	<0.04	0.26	0.08	<0.04			mg/kg	0.04	A-T-019s
Benzo(a)pyrene _A ^{M#}	<0.04	<0.04	0.40	0.13	0.04			mg/kg	0.04	A-T-019s
Benzo(b)fluoranthene _A ^{M#}	<0.05	<0.05	0.35	0.14	<0.05			mg/kg	0.05	A-T-019s
Benzo(ghi)perylene _A ^{M#}	<0.05	<0.05	0.19	0.07	<0.05			mg/kg	0.05	A-T-019s
Benzo(k)fluoranthene _A ^{M#}	<0.07	<0.07	0.24	0.09	<0.07			mg/kg	0.07	A-T-019s
Chrysene _A ^{M#}	<0.06	<0.06	0.39	0.15	<0.06			mg/kg	0.06	A-T-019s
Dibenzo(ah)anthracene _A ^{M#}	<0.04	<0.04	<0.04	<0.04	<0.04			mg/kg	0.04	A-T-019s
Fluoranthene _A ^{M#}	<0.08	<0.08	0.53	0.20	<0.08			mg/kg	0.08	A-T-019s
Fluorene _A ^{M#}	<0.01	<0.01	<0.01	<0.01	<0.01			mg/kg	0.01	A-T-019s
Indeno(123-cd)pyrene _A ^{M#}	<0.03	<0.03	0.24	0.08	<0.03			mg/kg	0.03	A-T-019s
Naphthalene _A ^{M#}	<0.03	<0.03	0.06	<0.03	<0.03			mg/kg	0.03	A-T-019s
Phenanthrene _A ^{M#}	<0.03	<0.03	0.21	0.13	<0.03			mg/kg	0.03	A-T-019s
Pyrene _A ^{M#}	<0.07	<0.07	0.50	0.18	<0.07			mg/kg	0.07	A-T-019s
Total PAH-16MS _A ^{M#}	<0.08	<0.08	3.43	1.29	<0.08			mg/kg	0.01	A-T-019s

Envirolab Job Number: 21/11658

Client Project Name: Manor Farm, Carburton

Client Project Ref: P21-00134

Lab Sample ID	21/11658/26	21/11658/27	21/11658/28	21/11658/29	21/11658/30			Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP18	HDP12	HDP13	HDP14	HDP15					
Depth to Top										
Depth To Bottom	0.50	0.50	0.20	0.20	0.60					
Date Sampled	22-Oct-21	22-Oct-21	22-Oct-21	22-Oct-21	22-Oct-21					
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES					
Sample Matrix Code	4AE	6AE	6AE	6AE	4A					
TPH CWG										
Ali >C5-C6 _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01			mg/kg	0.01	A-T-022s
Ali >C6-C8 _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01			mg/kg	0.01	A-T-022s
Ali >C8-C10 _A	<1	<1	<1	<1	<1			mg/kg	1	A-T-055s
Ali >C10-C12 _A ^{M#}	<1	<1	<1	<1	<1			mg/kg	1	A-T-055s
Ali >C12-C16 _A ^{M#}	<1	<1	<1	1	<1			mg/kg	1	A-T-055s
Ali >C16-C21 _A ^{M#}	<1	<1	<1	<1	<1			mg/kg	1	A-T-055s
Ali >C21-C35 _A ^{M#}	1	5	5	13	2			mg/kg	1	A-T-055s
Total Aliphatics _A	1	5	5	14	2			mg/kg	1	A-T-055s
Aro >C5-C7 _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01			mg/kg	0.01	A-T-022s
Aro >C7-C8 _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01			mg/kg	0.01	A-T-022s
Aro >C8-C10 _A	<1	<1	<1	<1	<1			mg/kg	1	A-T-055s
Aro >C10-C12 _A	<1	<1	<1	<1	<1			mg/kg	1	A-T-055s
Aro >C12-C16 _A	<1	7	4	21	<1			mg/kg	1	A-T-055s
Aro >C16-C21 _A ^{M#}	<1	4	7	19	1			mg/kg	1	A-T-055s
Aro >C21-C35 _A ^{M#}	2	13	25	40	5			mg/kg	1	A-T-055s
Total Aromatics _A	2	24	37	80	6			mg/kg	1	A-T-055s
TPH (Ali & Aro >C5-C35) _A	3	29	42	93	8			mg/kg	1	A-T-055s
BTEX - Benzene _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01			mg/kg	0.01	A-T-022s
BTEX - Toluene _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01			mg/kg	0.01	A-T-022s
BTEX - Ethyl Benzene _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01			mg/kg	0.01	A-T-022s
BTEX - m & p Xylene _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01			mg/kg	0.01	A-T-022s
BTEX - o Xylene _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01			mg/kg	0.01	A-T-022s
MTBE _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01			mg/kg	0.01	A-T-022s

REPORT NOTES

General

This report shall not be reproduced, except in full, without written approval from Envirolab.

The results reported herein relate only to the material supplied to the laboratory.

The residue of any samples contained within this report, and any received with the same delivery, will be disposed of six weeks after initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of six months after the initial Asbestos testing is completed.

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.

If results are in italic font they are associated with an AQC failure, these are not accredited and are 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 and, as a result, may be invalid.

The Client Sample No, Client Sample ID, Depth to Top, Depth to Bottom and Date Sampled were all provided by the client.

Soil chemical analysis:

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

For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any "A" subscripts

All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

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.

Electrical Conductivity of water by Method A-T-037:

Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Asbestos:

Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.

Stones etc. are not removed from the sample prior to analysis.

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, 8 = Asbestos bulk ID sample, 9 = INCINERATOR ASH.

Samples with Matrix Code 7 & 8 are not predominantly a SAND/LOAM/CLAY mix and are not covered by our BSEN 17025 or MCERTS accreditations, with the exception of bulk asbestos which are BSEN 17025 accredited.

Secondary Matrix Codes:

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

E = contains roots/twigs.

Key:

IS indicates Insufficient Sample for analysis.

US indicates Unsuitable 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.

Superscript "M" indicates method accredited to MCERTS.

Subscript "A" indicates analysis performed on the sample as received.

Subscript "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve

Please contact us if you need any further information.

Envirolab Deviating Samples Report

Units 7&8 Sandpits Business Park, Mottram Road, Hyde, SK14 3AR
Tel. 0161 368 4921 email. ask@envlab.co.uk

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

Project No: 21/11658

Project: Manor Farm, Carburton

Date Received: 27/10/2021 (am)

Clients Project No: P21-00134

Cool Box Temperatures (°C): 12.1 - 13.2

NO DEVIATIONS IDENTIFIED

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

Envirolab Analysis Dates

Lab Sample ID	21/11658/1	21/11658/2	21/11658/3	21/11658/4	21/11658/5	21/11658/6	21/11658/8	21/11658/9	21/11658/10	21/11658/11	21/11658/12	21/11658/14
Client Sample No												
Client Sample ID/Depth	HDP01 0.40m	HDP02 0.30m	HDP03 0.20m	HDP04 0.50m	HDP05 0.60m	HDP06 0.30m	HDP08 0.20m	HDP09 0.40m	HDP10 0.30m	HDP11 0.10m	TP03 2.00m	TP06 2.00m
Date Sampled	18/10/21	18/10/21	18/10/21	18/10/21	18/10/21	18/10/21	18/10/21	20/10/21	20/10/21	20/10/21	20/10/21	21/10/21
A-T-019s	02/11/2021	02/11/2021	02/11/2021	02/11/2021	02/11/2021	02/11/2021	02/11/2021	02/11/2021	02/11/2021	02/11/2021		
A-T-022s	02/11/2021	02/11/2021	02/11/2021	02/11/2021	02/11/2021	02/11/2021	02/11/2021	02/11/2021	02/11/2021	02/11/2021		
A-T-024s	05/11/2021	05/11/2021	05/11/2021	05/11/2021	05/11/2021	05/11/2021	05/11/2021	05/11/2021	05/11/2021	05/11/2021		
A-T-026s											02/11/2021	02/11/2021
A-T-028s												
A-T-031s											02/11/2021	02/11/2021
A-T-032 OM	03/11/2021	03/11/2021	03/11/2021	03/11/2021	03/11/2021	03/11/2021	03/11/2021	03/11/2021	03/11/2021	03/11/2021		
A-T-040s	02/11/2021	02/11/2021	02/11/2021	02/11/2021	02/11/2021	02/11/2021	02/11/2021	02/11/2021	02/11/2021	02/11/2021		
A-T-044	02/11/2021	02/11/2021	02/11/2021	02/11/2021	02/11/2021	02/11/2021	02/11/2021	02/11/2021	02/11/2021	02/11/2021	02/11/2021	02/11/2021
A-T-045	29/10/2021	29/10/2021	29/10/2021	29/10/2021	29/10/2021	29/10/2021	29/10/2021	29/10/2021	29/10/2021	29/10/2021		
A-T-054		10/11/2021	10/11/2021									
A-T-055s	02/11/2021	02/11/2021	02/11/2021	02/11/2021	02/11/2021	02/11/2021	02/11/2021	02/11/2021	02/11/2021	02/11/2021		
Gravimetry												

Lab Sample ID	21/11658/15	21/11658/18	21/11658/19	21/11658/20	21/11658/21	21/11658/22	21/11658/23	21/11658/24	21/11658/25	21/11658/26	21/11658/27	21/11658/28
Client Sample No												
Client Sample ID/Depth	TP07 0.20m	TP10 1.50m	TP11 1.70m	TP11 1.80m	TP12 0.30m	TP13 0.60m	TP13 1.30m	TP17 0.20m	TP17 1.30m	TP18 0.50m	HDP12 0.50m	HDP13 0.20m
Date Sampled	21/10/21	21/10/21	21/10/21	21/10/21	21/10/21	21/10/21	21/10/21	22/10/21	22/10/21	22/10/21	22/10/21	22/10/21
A-T-019s	02/11/2021				02/11/2021	02/11/2021		02/11/2021		02/11/2021	02/11/2021	02/11/2021
A-T-022s	02/11/2021				02/11/2021	02/11/2021		02/11/2021		02/11/2021	02/11/2021	02/11/2021
A-T-024s	05/11/2021				05/11/2021	05/11/2021		05/11/2021		05/11/2021	05/11/2021	05/11/2021
A-T-026s		02/11/2021	05/11/2021				05/11/2021		02/11/2021			
A-T-028s			08/11/2021				08/11/2021					
A-T-031s		02/11/2021	08/11/2021				08/11/2021		02/11/2021			
A-T-032 OM	03/11/2021				03/11/2021	03/11/2021		03/11/2021		03/11/2021	03/11/2021	03/11/2021
A-T-040s	02/11/2021				02/11/2021	02/11/2021		02/11/2021		02/11/2021	02/11/2021	02/11/2021
A-T-044	02/11/2021	02/11/2021	02/11/2021		02/11/2021	02/11/2021	02/11/2021	02/11/2021	02/11/2021	02/11/2021	02/11/2021	02/11/2021
A-T-045	29/10/2021		29/10/2021	28/10/2021	29/10/2021	29/10/2021	29/10/2021	29/10/2021		29/10/2021	29/10/2021	29/10/2021
A-T-054												
A-T-055s	02/11/2021				02/11/2021	02/11/2021		02/11/2021		02/11/2021	02/11/2021	02/11/2021
Gravimetry				28/10/2021								

Lab Sample ID	21/11658/29	21/11658/30
Client Sample No		
Client Sample ID/Depth	HDP14 0.20m	HDP15 0.60m
Date Sampled	22/10/21	22/10/21
A-T-019s	02/11/2021	02/11/2021
A-T-022s	02/11/2021	02/11/2021
A-T-024s	05/11/2021	05/11/2021
A-T-026s		
A-T-028s		
A-T-031s		
A-T-032 OM	03/11/2021	03/11/2021
A-T-040s	02/11/2021	02/11/2021
A-T-044	02/11/2021	02/11/2021
A-T-045	29/10/2021	29/10/2021
A-T-054		
A-T-055s	02/11/2021	02/11/2021
Gravimetry		

The above dates are the analysis completion dates, please note that these are not necessarily the date that the analysis was weighed/extracted.

End of Report

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 21/12048
Issue Number: 1
Date: 16 November, 2021

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

Project Manager: Ami Cooper/Yasemin Kolsuz
Project Name: Manor Farm, Carburton
Project Ref: P21-00134
Order No: PO-05896
Date Samples Received: 03/11/21
Date Instructions Received: 05/11/21
Date Analysis Completed: 16/11/21

Approved by:



Holly Neary-King
Client Services Supervisor

Envirolab Job Number: 21/12048

Client Project Name: Manor Farm, Carburton

Client Project Ref: P21-00134

Lab Sample ID	21/12048/1	21/12048/2	21/12048/3	21/12048/4	21/12048/5	21/12048/6	21/12048/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	HDP16	HDP17	HDP18	WS01	WS01	WS02	WS02			
Depth to Top					1.80		1.30			
Depth To Bottom	0.40	0.30	0.45	0.30	2.00	0.50	1.40			
Date Sampled	01-Nov-21	01-Nov-21	01-Nov-21	01-Nov-21	01-Nov-21	01-Nov-21	01-Nov-21			
Sample Type	Soil - ES	Solid	Soil - ES	Soil - ES	Soil - D	Soil - ES	Soil - D			
Sample Matrix Code	6AE	7	4A	5AE	4A	4AE	5AE			
% Stones >10mm _A	16.7	<0.1	9.0	20.0	<0.1	7.5	<0.1	% w/w	0.1	A-T-044
pH _D ^{M#}	-	-	-	-	8.42	-	8.84	pH	0.01	A-T-031s
Sulphate (water sol 2:1) _D ^{M#}	-	-	-	-	<0.01	-	0.02	g/l	0.01	A-T-026s
Organic matter _D ^{M#}	17.2	11.4	2.5	4.8	-	<0.1	-	% w/w	0.1	A-T-032 OM
Arsenic _D ^{M#}	12	2	2	6	-	<1	-	mg/kg	1	A-T-024s
Cadmium _D ^{M#}	0.9	0.8	<0.5	<0.5	-	<0.5	-	mg/kg	0.5	A-T-024s
Copper _D ^{M#}	70	12	9	23	-	4	-	mg/kg	1	A-T-024s
Chromium _D ^{M#}	16	9	10	9	-	5	-	mg/kg	1	A-T-024s
Chromium (hexavalent) _D	<1	<1	<1	<1	-	<1	-	mg/kg	1	A-T-040s
Lead _D ^{M#}	478	52	40	326	-	2	-	mg/kg	1	A-T-024s
Mercury _D	1.02	2.49	0.46	1.43	-	<0.17	-	mg/kg	0.17	A-T-024s
Nickel _D ^{M#}	15	7	8	7	-	6	-	mg/kg	1	A-T-024s
Selenium _D ^{M#}	<1	<1	<1	<1	-	<1	-	mg/kg	1	A-T-024s
Zinc _D ^{M#}	254	64	66	83	-	15	-	mg/kg	5	A-T-024s

Envirolab Job Number: 21/12048

Client Project Name: Manor Farm, Carburton

Client Project Ref: P21-00134

Lab Sample ID	21/12048/1	21/12048/2	21/12048/3	21/12048/4	21/12048/5	21/12048/6	21/12048/7	Units	Limit of Detection	Method ref			
Client Sample No													
Client Sample ID	HDP16	HDP17	HDP18	WS01	WS01	WS02	WS02						
Depth to Top					1.80		1.30						
Depth To Bottom	0.40	0.30	0.45	0.30	2.00	0.50	1.40						
Date Sampled	01-Nov-21	01-Nov-21	01-Nov-21	01-Nov-21	01-Nov-21	01-Nov-21	01-Nov-21						
Sample Type	Soil - ES	Solid	Soil - ES	Soil - ES	Soil - D	Soil - ES	Soil - D						
Sample Matrix Code	6AE	7	4A	5AE	4A	4AE	5AE						
Asbestos in Soil (inc. matrix)													
Asbestos in soil [#]	NAD	NAD	NAD	NAD	-	NAD	-			A-T-045			
Asbestos Matrix (visual) _D	-	-	-	-	-	-	-			A-T-045			
Asbestos Matrix (microscope) _D	-	-	-	-	-	-	-			A-T-045			
Asbestos ACM - Suitable for Water Absorption Test? _D	N/A	N/A	N/A	N/A	-	N/A	-			A-T-045			

Envirolab Job Number: 21/12048

Client Project Name: Manor Farm, Carburton

Client Project Ref: P21-00134

Lab Sample ID	21/12048/1	21/12048/2	21/12048/3	21/12048/4	21/12048/5	21/12048/6	21/12048/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	HDP16	HDP17	HDP18	WS01	WS01	WS02	WS02			
Depth to Top					1.80		1.30			
Depth To Bottom	0.40	0.30	0.45	0.30	2.00	0.50	1.40			
Date Sampled	01-Nov-21	01-Nov-21	01-Nov-21	01-Nov-21	01-Nov-21	01-Nov-21	01-Nov-21			
Sample Type	Soil - ES	Solid	Soil - ES	Soil - ES	Soil - D	Soil - ES	Soil - D			
Sample Matrix Code	6AE	7	4A	5AE	4A	4AE	5AE			
PAH-16MS										
Acenaphthene _A ^{M#}	<0.01	<0.01	<0.01	<0.01	-	<0.01	-	mg/kg	0.01	A-T-019s
Acenaphthylene _A ^{M#}	0.02	0.01	<0.01	<0.01	-	<0.01	-	mg/kg	0.01	A-T-019s
Anthracene _A ^{M#}	0.03	<0.02	<0.02	<0.02	-	<0.02	-	mg/kg	0.02	A-T-019s
Benzo(a)anthracene _A ^{M#}	0.19	0.08	0.05	0.13	-	<0.04	-	mg/kg	0.04	A-T-019s
Benzo(a)pyrene _A ^{M#}	0.16	0.10	0.05	0.12	-	<0.04	-	mg/kg	0.04	A-T-019s
Benzo(b)fluoranthene _A ^{M#}	0.19	0.12	0.06	0.14	-	<0.05	-	mg/kg	0.05	A-T-019s
Benzo(ghi)perylene _A ^{M#}	0.06	0.06	<0.05	0.06	-	<0.05	-	mg/kg	0.05	A-T-019s
Benzo(k)fluoranthene _A ^{M#}	0.08	<0.07	<0.07	<0.07	-	<0.07	-	mg/kg	0.07	A-T-019s
Chrysene _A ^{M#}	0.19	0.11	0.07	0.13	-	<0.06	-	mg/kg	0.06	A-T-019s
Dibenzo(ah)anthracene _A ^{M#}	<0.04	<0.04	<0.04	<0.04	-	<0.04	-	mg/kg	0.04	A-T-019s
Fluoranthene _A ^{M#}	0.30	0.19	0.15	0.23	-	<0.08	-	mg/kg	0.08	A-T-019s
Fluorene _A ^{M#}	0.01	<0.01	<0.01	<0.01	-	<0.01	-	mg/kg	0.01	A-T-019s
Indeno(123-cd)pyrene _A ^{M#}	0.07	0.06	<0.03	0.07	-	<0.03	-	mg/kg	0.03	A-T-019s
Naphthalene _A ^{M#}	0.11	<0.03	<0.03	<0.03	-	<0.03	-	mg/kg	0.03	A-T-019s
Phenanthrene _A ^{M#}	0.19	0.06	0.09	0.09	-	<0.03	-	mg/kg	0.03	A-T-019s
Pyrene _A ^{M#}	0.25	0.17	0.13	0.22	-	<0.07	-	mg/kg	0.07	A-T-019s
Total PAH-16MS _A ^{M#}	1.85	0.96	0.60	1.19	-	<0.08	-	mg/kg	0.01	A-T-019s

Envirolab Job Number: 21/12048

Client Project Name: Manor Farm, Carburton

Client Project Ref: P21-00134

Lab Sample ID	21/12048/1	21/12048/2	21/12048/3	21/12048/4	21/12048/5	21/12048/6	21/12048/7	Units	Limit of Detection	Method ref			
Client Sample No													
Client Sample ID	HDP16	HDP17	HDP18	WS01	WS01	WS02	WS02						
Depth to Top					1.80		1.30						
Depth To Bottom	0.40	0.30	0.45	0.30	2.00	0.50	1.40						
Date Sampled	01-Nov-21	01-Nov-21	01-Nov-21	01-Nov-21	01-Nov-21	01-Nov-21	01-Nov-21						
Sample Type	Soil - ES	Solid	Soil - ES	Soil - ES	Soil - D	Soil - ES	Soil - D						
Sample Matrix Code	6AE	7	4A	5AE	4A	4AE	5AE						
TPH CWG													
Ali >C5-C6 _A [#]	<0.05	<0.01	<0.01	<0.01	-	<0.01	-	mg/kg	0.01	A-T-022s			
Ali >C6-C8 _A [#]	<0.05	<0.01	<0.01	<0.01	-	<0.01	-	mg/kg	0.01	A-T-022s			
Ali >C8-C10 _A	1	<1	<1	<1	-	<1	-	mg/kg	1	A-T-055s			
Ali >C10-C12 _A ^{M#}	<1	<1	<1	<1	-	<1	-	mg/kg	1	A-T-055s			
Ali >C12-C16 _A ^{M#}	2	<1	<1	<1	-	<1	-	mg/kg	1	A-T-055s			
Ali >C16-C21 _A ^{M#}	4	<1	<1	<1	-	<1	-	mg/kg	1	A-T-055s			
Ali >C21-C35 _A ^{M#}	13	3	2	5	-	9	-	mg/kg	1	A-T-055s			
Total Aliphatics _A	20	3	2	5	-	9	-	mg/kg	1	A-T-055s			
Aro >C5-C7 _A [#]	<0.05	<0.01	<0.01	<0.01	-	<0.01	-	mg/kg	0.01	A-T-022s			
Aro >C7-C8 _A [#]	<0.05	<0.01	<0.01	<0.01	-	<0.01	-	mg/kg	0.01	A-T-022s			
Aro >C8-C10 _A	2	<1	<1	<1	-	<1	-	mg/kg	1	A-T-055s			
Aro >C10-C12 _A	2	<1	<1	<1	-	<1	-	mg/kg	1	A-T-055s			
Aro >C12-C16 _A	6	<1	<1	<1	-	<1	-	mg/kg	1	A-T-055s			
Aro >C16-C21 _A ^{M#}	11	2	<1	5	-	<1	-	mg/kg	1	A-T-055s			
Aro >C21-C35 _A ^{M#}	30	10	1	18	-	6	-	mg/kg	1	A-T-055s			
Total Aromatics _A	51	12	1	24	-	7	-	mg/kg	1	A-T-055s			
TPH (Ali & Aro >C5-C35) _A	71	15	3	28	-	16	-	mg/kg	1	A-T-055s			
BTEX - Benzene _A [#]	<0.05	<0.01	<0.01	<0.01	-	<0.01	-	mg/kg	0.01	A-T-022s			
BTEX - Toluene _A [#]	<0.05	<0.01	<0.01	<0.01	-	<0.01	-	mg/kg	0.01	A-T-022s			
BTEX - Ethyl Benzene _A [#]	<0.05	<0.01	<0.01	<0.01	-	<0.01	-	mg/kg	0.01	A-T-022s			
BTEX - m & p Xylene _A [#]	<0.05	<0.01	<0.01	<0.01	-	<0.01	-	mg/kg	0.01	A-T-022s			
BTEX - o Xylene _A [#]	<0.05	<0.01	<0.01	<0.01	-	<0.01	-	mg/kg	0.01	A-T-022s			
MTBE _A [#]	<0.05	<0.01	<0.01	<0.01	-	<0.01	-	mg/kg	0.01	A-T-022s			

Envirolab Job Number: 21/12048

Client Project Name: Manor Farm, Carburton

Client Project Ref: P21-00134

Lab Sample ID	21/12048/8	21/12048/9	21/12048/10	21/12048/11	21/12048/12	21/12048/13	21/12048/14	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS03a	WS03b	WS03	WS04a	WS04b	WS04	WS05			
Depth to Top			1.50			1.90				
Depth To Bottom	0.50	1.00	1.60	0.40	1.10	2.00	0.40			
Date Sampled	01-Nov-21	01-Nov-21	01-Nov-21	02-Nov-21	02-Nov-21	02-Nov-21	02-Nov-21			
Sample Type	Soil - ES	Soil - ES	Soil - D	Soil - ES	Soil - ES	Soil - D	Soil - ES			
Sample Matrix Code	4AB	4A	4A	4A	4A	4A	4AE			
% Stones >10mm _A	17.5	<0.1	<0.1	5.3	1.8	<0.1	4.9			
pH ^{M#}	-	-	8.66	-	-	-	-	pH	0.01	A-T-031s
Sulphate (water sol 2:1) _D ^{M#}	-	-	<0.01	-	-	-	-	g/l	0.01	A-T-026s
Organic matter _D ^{M#}	2.8	<0.1	-	0.4	<0.1	-	1.6	% w/w	0.1	A-T-032 OM
Arsenic _D ^{M#}	9	8	-	45	5	-	2	mg/kg	1	A-T-024s
Cadmium _D ^{M#}	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	mg/kg	0.5	A-T-024s
Copper _D ^{M#}	40	9	-	22	4	-	10	mg/kg	1	A-T-024s
Chromium _D ^{M#}	6	9	-	6	6	-	9	mg/kg	1	A-T-024s
Chromium (hexavalent) _D	<1	<1	-	<1	<1	-	<1	mg/kg	1	A-T-040s
Lead _D ^{M#}	408	5	-	64	3	-	45	mg/kg	1	A-T-024s
Mercury _D	0.89	<0.17	-	0.23	<0.17	-	<0.17	mg/kg	0.17	A-T-024s
Nickel _D ^{M#}	7	9	-	7	5	-	8	mg/kg	1	A-T-024s
Selenium _D ^{M#}	<1	<1	-	<1	<1	-	<1	mg/kg	1	A-T-024s
Zinc _D ^{M#}	50	41	-	34	15	-	52	mg/kg	5	A-T-024s

Envirolab Job Number: 21/12048

Client Project Name: Manor Farm, Carburton

Client Project Ref: P21-00134

Lab Sample ID	21/12048/8	21/12048/9	21/12048/10	21/12048/11	21/12048/12	21/12048/13	21/12048/14	Units	Limit of Detection	Method ref			
Client Sample No													
Client Sample ID	WS03a	WS03b	WS03	WS04a	WS04b	WS04	WS05						
Depth to Top			1.50			1.90							
Depth To Bottom	0.50	1.00	1.60	0.40	1.10	2.00	0.40						
Date Sampled	01-Nov-21	01-Nov-21	01-Nov-21	02-Nov-21	02-Nov-21	02-Nov-21	02-Nov-21						
Sample Type	Soil - ES	Soil - ES	Soil - D	Soil - ES	Soil - ES	Soil - D	Soil - ES						
Sample Matrix Code	4AB	4A	4A	4A	4A	4A	4AE						
Asbestos in Soil (inc. matrix)													
Asbestos in soil [#]	NAD	NAD	-	NAD	NAD	-	NAD			A-T-045			
Asbestos Matrix (visual) _D	-	-	-	-	-	-	-			A-T-045			
Asbestos Matrix (microscope) _D	-	-	-	-	-	-	-			A-T-045			
Asbestos ACM - Suitable for Water Absorption Test? _D	N/A	N/A	-	N/A	N/A	-	N/A			A-T-045			

Envirolab Job Number: 21/12048

Client Project Name: Manor Farm, Carburton

Client Project Ref: P21-00134

Lab Sample ID	21/12048/8	21/12048/9	21/12048/10	21/12048/11	21/12048/12	21/12048/13	21/12048/14	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS03a	WS03b	WS03	WS04a	WS04b	WS04	WS05			
Depth to Top			1.50			1.90				
Depth To Bottom	0.50	1.00	1.60	0.40	1.10	2.00	0.40			
Date Sampled	01-Nov-21	01-Nov-21	01-Nov-21	02-Nov-21	02-Nov-21	02-Nov-21	02-Nov-21			
Sample Type	Soil - ES	Soil - ES	Soil - D	Soil - ES	Soil - ES	Soil - D	Soil - ES			
Sample Matrix Code	4AB	4A	4A	4A	4A	4A	4AE			
PAH-16MS										
Acenaphthene _A ^{M#}	<0.01	<0.01	-	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-019s
Acenaphthylene _A ^{M#}	0.04	<0.01	-	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-019s
Anthracene _A ^{M#}	0.04	<0.02	-	<0.02	<0.02	-	<0.02	mg/kg	0.02	A-T-019s
Benzo(a)anthracene _A ^{M#}	0.26	<0.04	-	<0.04	<0.04	-	<0.04	mg/kg	0.04	A-T-019s
Benzo(a)pyrene _A ^{M#}	0.22	<0.04	-	<0.04	<0.04	-	<0.04	mg/kg	0.04	A-T-019s
Benzo(b)fluoranthene _A ^{M#}	0.24	<0.05	-	<0.05	<0.05	-	<0.05	mg/kg	0.05	A-T-019s
Benzo(ghi)perylene _A ^{M#}	0.07	<0.05	-	<0.05	<0.05	-	<0.05	mg/kg	0.05	A-T-019s
Benzo(k)fluoranthene _A ^{M#}	0.11	<0.07	-	<0.07	<0.07	-	<0.07	mg/kg	0.07	A-T-019s
Chrysene _A ^{M#}	0.26	<0.06	-	<0.06	<0.06	-	<0.06	mg/kg	0.06	A-T-019s
Dibenzo(ah)anthracene _A ^{M#}	<0.04	<0.04	-	<0.04	<0.04	-	<0.04	mg/kg	0.04	A-T-019s
Fluoranthene _A ^{M#}	0.55	<0.08	-	<0.08	<0.08	-	<0.08	mg/kg	0.08	A-T-019s
Fluorene _A ^{M#}	0.03	<0.01	-	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-019s
Indeno(123-cd)pyrene _A ^{M#}	0.09	<0.03	-	<0.03	<0.03	-	<0.03	mg/kg	0.03	A-T-019s
Naphthalene _A ^{M#}	<0.03	<0.03	-	<0.03	<0.03	-	<0.03	mg/kg	0.03	A-T-019s
Phenanthrene _A ^{M#}	0.44	<0.03	-	<0.03	<0.03	-	<0.03	mg/kg	0.03	A-T-019s
Pyrene _A ^{M#}	0.43	<0.07	-	<0.07	<0.07	-	<0.07	mg/kg	0.07	A-T-019s
Total PAH-16MS _A ^{M#}	2.78	<0.08	-	<0.08	<0.08	-	<0.08	mg/kg	0.01	A-T-019s

Envirolab Job Number: 21/12048

Client Project Name: Manor Farm, Carburton

Client Project Ref: P21-00134

Lab Sample ID	21/12048/8	21/12048/9	21/12048/10	21/12048/11	21/12048/12	21/12048/13	21/12048/14	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS03a	WS03b	WS03	WS04a	WS04b	WS04	WS05			
Depth to Top			1.50			1.90				
Depth To Bottom	0.50	1.00	1.60	0.40	1.10	2.00	0.40			
Date Sampled	01-Nov-21	01-Nov-21	01-Nov-21	02-Nov-21	02-Nov-21	02-Nov-21	02-Nov-21			
Sample Type	Soil - ES	Soil - ES	Soil - D	Soil - ES	Soil - ES	Soil - D	Soil - ES			
Sample Matrix Code	4AB	4A	4A	4A	4A	4A	4AE			
TPH CWG										
Ali >C5-C6 _A [#]	<0.01	<0.01	-	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-022s
Ali >C6-C8 _A [#]	<0.01	<0.01	-	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-022s
Ali >C8-C10 _A	<1	<1	-	<1	<1	-	<1	mg/kg	1	A-T-055s
Ali >C10-C12 _A ^{M#}	<1	<1	-	<1	<1	-	<1	mg/kg	1	A-T-055s
Ali >C12-C16 _A ^{M#}	<1	<1	-	<1	<1	-	<1	mg/kg	1	A-T-055s
Ali >C16-C21 _A ^{M#}	2	<1	-	<1	<1	-	<1	mg/kg	1	A-T-055s
Ali >C21-C35 _A ^{M#}	3	<1	-	<1	<1	-	2	mg/kg	1	A-T-055s
Total Aliphatics _A	7	<1	-	<1	<1	-	2	mg/kg	1	A-T-055s
Aro >C5-C7 _A [#]	<0.01	<0.01	-	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-022s
Aro >C7-C8 _A [#]	<0.01	<0.01	-	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-022s
Aro >C8-C10 _A	<1	<1	-	<1	<1	-	<1	mg/kg	1	A-T-055s
Aro >C10-C12 _A	<1	<1	-	<1	<1	-	<1	mg/kg	1	A-T-055s
Aro >C12-C16 _A	4	<1	-	<1	<1	-	<1	mg/kg	1	A-T-055s
Aro >C16-C21 _A ^{M#}	9	<1	-	<1	<1	-	<1	mg/kg	1	A-T-055s
Aro >C21-C35 _A ^{M#}	16	<1	-	<1	<1	-	1	mg/kg	1	A-T-055s
Total Aromatics _A	30	<1	-	<1	<1	-	1	mg/kg	1	A-T-055s
TPH (Ali & Aro >C5-C35) _A	37	<1	-	<1	<1	-	3	mg/kg	1	A-T-055s
BTEX - Benzene _A [#]	<0.01	<0.01	-	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-022s
BTEX - Toluene _A [#]	<0.01	<0.01	-	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-022s
BTEX - Ethyl Benzene _A [#]	<0.01	<0.01	-	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-022s
BTEX - m & p Xylene _A [#]	<0.01	<0.01	-	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-022s
BTEX - o Xylene _A [#]	<0.01	<0.01	-	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-022s
MTBE _A [#]	<0.01	<0.01	-	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-022s

Envirolab Job Number: 21/12048

Client Project Name: Manor Farm, Carburton

Client Project Ref: P21-00134

Lab Sample ID	21/12048/15	21/12048/16	21/12048/17					Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS05	WS05	HDP19							
Depth to Top	1.10	1.80								
Depth To Bottom	1.40	1.90	0.10							
Date Sampled	02-Nov-21	02-Nov-21	01-Nov-21							
Sample Type	Soil - B	Soil - D	Soil - ES							
Sample Matrix Code	5A	4A	4AB							
% Stones >10mm _A	14.9	1.4	8.2							
pH ^{M#}	-	8.67	-					pH	0.01	A-T-031s
Sulphate (water sol 2:1) _D ^{M#}	-	<0.01	-					g/l	0.01	A-T-026s
Organic matter _D ^{M#}	-	-	0.4					% w/w	0.1	A-T-032 OM
Arsenic _D ^{M#}	-	-	3					mg/kg	1	A-T-024s
Cadmium _D ^{M#}	-	-	<0.5					mg/kg	0.5	A-T-024s
Copper _D ^{M#}	-	-	6					mg/kg	1	A-T-024s
Chromium _D ^{M#}	-	-	6					mg/kg	1	A-T-024s
Chromium (hexavalent) _D	-	-	<1					mg/kg	1	A-T-040s
Lead _D ^{M#}	-	-	39					mg/kg	1	A-T-024s
Mercury _D	-	-	<0.17					mg/kg	0.17	A-T-024s
Nickel _D ^{M#}	-	-	6					mg/kg	1	A-T-024s
Selenium _D ^{M#}	-	-	<1					mg/kg	1	A-T-024s
Zinc _D ^{M#}	-	-	27					mg/kg	5	A-T-024s

Envirolab Job Number: 21/12048

Client Project Name: Manor Farm, Carburton

Client Project Ref: P21-00134

Lab Sample ID	21/12048/15	21/12048/16	21/12048/17					Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS05	WS05	HDP19							
Depth to Top	1.10	1.80								
Depth To Bottom	1.40	1.90	0.10							
Date Sampled	02-Nov-21	02-Nov-21	01-Nov-21							
Sample Type	Soil - B	Soil - D	Soil - ES							
Sample Matrix Code	5A	4A	4AB							
Asbestos in Soil (inc. matrix)										
Asbestos in soil _D [#]	-	-	NAD							A-T-045
Asbestos Matrix (visual) _D	-	-	-							A-T-045
Asbestos Matrix (microscope) _D	-	-	-							A-T-045
Asbestos ACM - Suitable for Water Absorption Test? _D	-	-	N/A							A-T-045

Envirolab Job Number: 21/12048

Client Project Name: Manor Farm, Carburton

Client Project Ref: P21-00134

Lab Sample ID	21/12048/15	21/12048/16	21/12048/17					Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS05	WS05	HDP19							
Depth to Top	1.10	1.80								
Depth To Bottom	1.40	1.90	0.10							
Date Sampled	02-Nov-21	02-Nov-21	01-Nov-21							
Sample Type	Soil - B	Soil - D	Soil - ES							
Sample Matrix Code	5A	4A	4AB							
PAH-16MS										
Acenaphthene _A ^{M#}	-	-	<0.01					mg/kg	0.01	A-T-019s
Acenaphthylene _A ^{M#}	-	-	<0.01					mg/kg	0.01	A-T-019s
Anthracene _A ^{M#}	-	-	<0.02					mg/kg	0.02	A-T-019s
Benzo(a)anthracene _A ^{M#}	-	-	<0.04					mg/kg	0.04	A-T-019s
Benzo(a)pyrene _A ^{M#}	-	-	<0.04					mg/kg	0.04	A-T-019s
Benzo(b)fluoranthene _A ^{M#}	-	-	<0.05					mg/kg	0.05	A-T-019s
Benzo(ghi)perylene _A ^{M#}	-	-	<0.05					mg/kg	0.05	A-T-019s
Benzo(k)fluoranthene _A ^{M#}	-	-	<0.07					mg/kg	0.07	A-T-019s
Chrysene _A ^{M#}	-	-	<0.06					mg/kg	0.06	A-T-019s
Dibenzo(ah)anthracene _A ^{M#}	-	-	<0.04					mg/kg	0.04	A-T-019s
Fluoranthene _A ^{M#}	-	-	<0.08					mg/kg	0.08	A-T-019s
Fluorene _A ^{M#}	-	-	<0.01					mg/kg	0.01	A-T-019s
Indeno(123-cd)pyrene _A ^{M#}	-	-	<0.03					mg/kg	0.03	A-T-019s
Naphthalene _A ^{M#}	-	-	<0.03					mg/kg	0.03	A-T-019s
Phenanthrene _A ^{M#}	-	-	<0.03					mg/kg	0.03	A-T-019s
Pyrene _A ^{M#}	-	-	<0.07					mg/kg	0.07	A-T-019s
Total PAH-16MS _A ^{M#}	-	-	<0.08					mg/kg	0.01	A-T-019s

Envirolab Job Number: 21/12048

Client Project Name: Manor Farm, Carburton

Client Project Ref: P21-00134

Lab Sample ID	21/12048/15	21/12048/16	21/12048/17							
Client Sample No										
Client Sample ID	WS05	WS05	HDP19							
Depth to Top	1.10	1.80								
Depth To Bottom	1.40	1.90	0.10							
Date Sampled	02-Nov-21	02-Nov-21	01-Nov-21							
Sample Type	Soil - B	Soil - D	Soil - ES							
Sample Matrix Code	5A	4A	4AB							
TPH CWG										
Ali >C5-C6 _A [#]	-	-	<0.01					mg/kg	0.01	A-T-022s
Ali >C6-C8 _A [#]	-	-	<0.01					mg/kg	0.01	A-T-022s
Ali >C8-C10 _A	-	-	<1					mg/kg	1	A-T-055s
Ali >C10-C12 _A ^{M#}	-	-	<1					mg/kg	1	A-T-055s
Ali >C12-C16 _A ^{M#}	-	-	<1					mg/kg	1	A-T-055s
Ali >C16-C21 _A ^{M#}	-	-	<1					mg/kg	1	A-T-055s
Ali >C21-C35 _A ^{M#}	-	-	2					mg/kg	1	A-T-055s
Total Aliphatics _A	-	-	2					mg/kg	1	A-T-055s
Aro >C5-C7 _A [#]	-	-	<0.01					mg/kg	0.01	A-T-022s
Aro >C7-C8 _A [#]	-	-	<0.01					mg/kg	0.01	A-T-022s
Aro >C8-C10 _A	-	-	<1					mg/kg	1	A-T-055s
Aro >C10-C12 _A	-	-	<1					mg/kg	1	A-T-055s
Aro >C12-C16 _A	-	-	<1					mg/kg	1	A-T-055s
Aro >C16-C21 _A ^{M#}	-	-	<1					mg/kg	1	A-T-055s
Aro >C21-C35 _A ^{M#}	-	-	<1					mg/kg	1	A-T-055s
Total Aromatics _A	-	-	<1					mg/kg	1	A-T-055s
TPH (Ali & Aro >C5-C35) _A	-	-	2					mg/kg	1	A-T-055s
BTEX - Benzene _A [#]	-	-	<0.01					mg/kg	0.01	A-T-022s
BTEX - Toluene _A [#]	-	-	<0.01					mg/kg	0.01	A-T-022s
BTEX - Ethyl Benzene _A [#]	-	-	<0.01					mg/kg	0.01	A-T-022s
BTEX - m & p Xylene _A [#]	-	-	<0.01					mg/kg	0.01	A-T-022s
BTEX - o Xylene _A [#]	-	-	<0.01					mg/kg	0.01	A-T-022s
MTBE _A [#]	-	-	<0.01					mg/kg	0.01	A-T-022s

REPORT NOTES

General

This report shall not be reproduced, except in full, without written approval from Envirolab.

The results reported herein relate only to the material supplied to the laboratory.

The residue of any samples contained within this report, and any received with the same delivery, will be disposed of six weeks after initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of six months after the initial Asbestos testing is completed.

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.

If results are in italic font they are associated with an AQC failure, these are not accredited and are 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 and, as a result, may be invalid.

The Client Sample No, Client Sample ID, Depth to Top, Depth to Bottom and Date Sampled were all provided by the client.

Soil chemical analysis:

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

For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any "A" subscripts

All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

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.

Electrical Conductivity of water by Method A-T-037:

Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Asbestos:

Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.

Stones etc. are not removed from the sample prior to analysis.

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, 8 = Asbestos bulk ID sample, 9 = INCINERATOR ASH.

Samples with Matrix Code 7 & 8 are not predominantly a SAND/LOAM/CLAY mix and are not covered by our BSEN 17025 or MCERTS accreditations, with the exception of bulk asbestos which are BSEN 17025 accredited.

Secondary Matrix Codes:

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

E = contains roots/twigs.

Key:

IS indicates Insufficient Sample for analysis.

US indicates Unsuitable 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.

Superscript "M" indicates method accredited to MCERTS.

Subscript "A" indicates analysis performed on the sample as received.

Subscript "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve

Please contact us if you need any further information.

Envirolab Deviating Samples Report

Units 7&8 Sandpits Business Park, Mottram Road, Hyde, SK14 3AR
Tel. 0161 368 4921 email. ask@envlab.co.uk

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

Project No: 21/12048

Project: Manor Farm, Carburton

Date Received: 05/11/2021 (am)

Clients Project No: P21-00134

Cool Box Temperatures (°C): 9.1 & 9.4

NO DEVIATIONS IDENTIFIED

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

Envirolab Analysis Dates

Lab Sample ID	21/12048/1	21/12048/2	21/12048/3	21/12048/4	21/12048/5	21/12048/6	21/12048/7	21/12048/8	21/12048/9	21/12048/10	21/12048/11	21/12048/12
Client Sample No												
Client Sample ID/Depth	HDP16 0.40m	HDP17 0.30m	HDP18 0.45m	WS01 0.30m	WS01 2.00-1.80m	WS02 0.50m	WS02 1.40-1.30m	WS03a 0.50m	WS03b 1.00m	WS03 1.60-1.50m	WS04a 0.40m	WS04b 1.10m
Date Sampled	01/11/21	01/11/21	01/11/21	01/11/21	01/11/21	01/11/21	01/11/21	01/11/21	01/11/21	01/11/21	02/11/21	02/11/21
A-T-019s	11/11/2021	11/11/2021	11/11/2021	11/11/2021		11/11/2021		11/11/2021	11/11/2021		11/11/2021	11/11/2021
A-T-022s	15/11/2021	11/11/2021	11/11/2021	11/11/2021		11/11/2021		11/11/2021	11/11/2021		16/11/2021	16/11/2021
A-T-024s	12/11/2021	12/11/2021	12/11/2021	12/11/2021		12/11/2021		12/11/2021	12/11/2021		12/11/2021	12/11/2021
A-T-026s					11/11/2021		11/11/2021			11/11/2021		
A-T-031s					11/11/2021		11/11/2021			11/11/2021		
A-T-032 OM	11/11/2021	11/11/2021	11/11/2021	11/11/2021		11/11/2021		11/11/2021	11/11/2021		11/11/2021	11/11/2021
A-T-040s	11/11/2021	11/11/2021	11/11/2021	11/11/2021		11/11/2021		11/11/2021	11/11/2021		11/11/2021	11/11/2021
A-T-044	11/11/2021	11/11/2021	11/11/2021	11/11/2021	11/11/2021	11/11/2021	11/11/2021	11/11/2021	11/11/2021	11/11/2021	11/11/2021	11/11/2021
A-T-045	09/11/2021	09/11/2021	09/11/2021	09/11/2021		09/11/2021		09/11/2021	09/11/2021		09/11/2021	09/11/2021
A-T-055s	15/11/2021	11/11/2021	11/11/2021	11/11/2021		11/11/2021		11/11/2021	11/11/2021		16/11/2021	11/11/2021

Lab Sample ID	21/12048/13	21/12048/14	21/12048/15	21/12048/16	21/12048/17
Client Sample No					
Client Sample ID/Depth	WS04 2.00-1.90m	WS05 0.40m	WS05 1.40-1.10m	WS05 1.90-1.80m	HDP19 0.10m
Date Sampled	02/11/21	02/11/21	02/11/21	02/11/21	01/11/21
A-T-019s		11/11/2021			11/11/2021
A-T-022s		16/11/2021			16/11/2021
A-T-024s		12/11/2021			12/11/2021
A-T-026s				11/11/2021	
A-T-031s				11/11/2021	
A-T-032 OM		11/11/2021			11/11/2021
A-T-040s		11/11/2021			11/11/2021
A-T-044	11/11/2021	11/11/2021	11/11/2021	11/11/2021	11/11/2021
A-T-045		09/11/2021			09/11/2021
A-T-055s		11/11/2021			11/11/2021

The above dates are the analysis completion dates, please note that these are not necessarily the date that the analysis was weighed/extracted.

End of Report



STRUCTURAL SOILS LTD
TEST REPORT



Report No. 584682-01 (00)

1774

Date 16-November-2021 Contract P21-00134

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

For the Attention of Holly Neary-King

Samples submitted by client	01-November-2021	Client Reference	21/11658
Testing Started	08-November-2021	Client Order No.	P0747690
Testing Completed	16-November-2021	Instruction Type	Written

Tests marked 'Not UKAS Accredited' in this report are not included in the UKAS Accreditation Schedule for our Laboratory.

UKAS Accredited Tests

- 1.01 Moisture Content (oven drying method) BS1377:Part 2:1990:clause 3.2 (superseded)*
- 1.02 Liquid Limit (definitive method) & Plastic Limit BS1377:Part 2:1990,clause 4.3/5.3 (superseded)*
- 1.04 Pre-sieving for 1.02&1.03 if required
- 1.05 Non Plastic determined after preparation

* This clause of BS1377 is no longer the most up to date method due to the publication of ISO17892

Please Note: Remaining samples will be retained for a period of one month from today and will then be disposed of .
Test were undertaken on samples 'as received' unless otherwise stated.
Opinions and interpretations expressed in this report are outside the scope of accreditation for this laboratory.

TESTING VERIFICATION CERTIFICATE



1774

The test results included in this report are certified as:-

ISSUE STATUS: **FINAL**

In accordance with the Structural Soils Ltd Laboratory Quality Management System, results sheets and summaries of results issued by the laboratory are checked by an approved signatory. The integrity of the test data and results are ensured by control of the computer system employed by the laboratory as part of the Software Verification Program as detailed in the Laboratory Quality Manual.

This testing verification certificate covers all testing compiled on or before the following datetime: **16/11/2021 14:53:36**.

Testing reported after this date is not covered by this Verification Certificate.

Approved Signatory
David Nickells (Laboratory Technician)

(Head Office)
Bristol Laboratory
Unit 1A, Princess Street
Bedminster
Bristol
BS3 4AG

Castleford Laboratory
The Potteries, Pottery Street
Castleford
West Yorkshire
WF10 1NJ

Hemel Laboratory
18 Frogmore Road
Hemel Hempstead
Hertfordshire
HP3 9RT

Tonbridge Laboratory
Anerley Court, Half Moon Lane
Hildenborough
Tonbridge
TN11 9HU



**STRUCTURAL
SOILS LTD**

Contract:

P21-00134

Job No:



584682



SUMMARY OF SOIL CLASSIFICATION TESTS

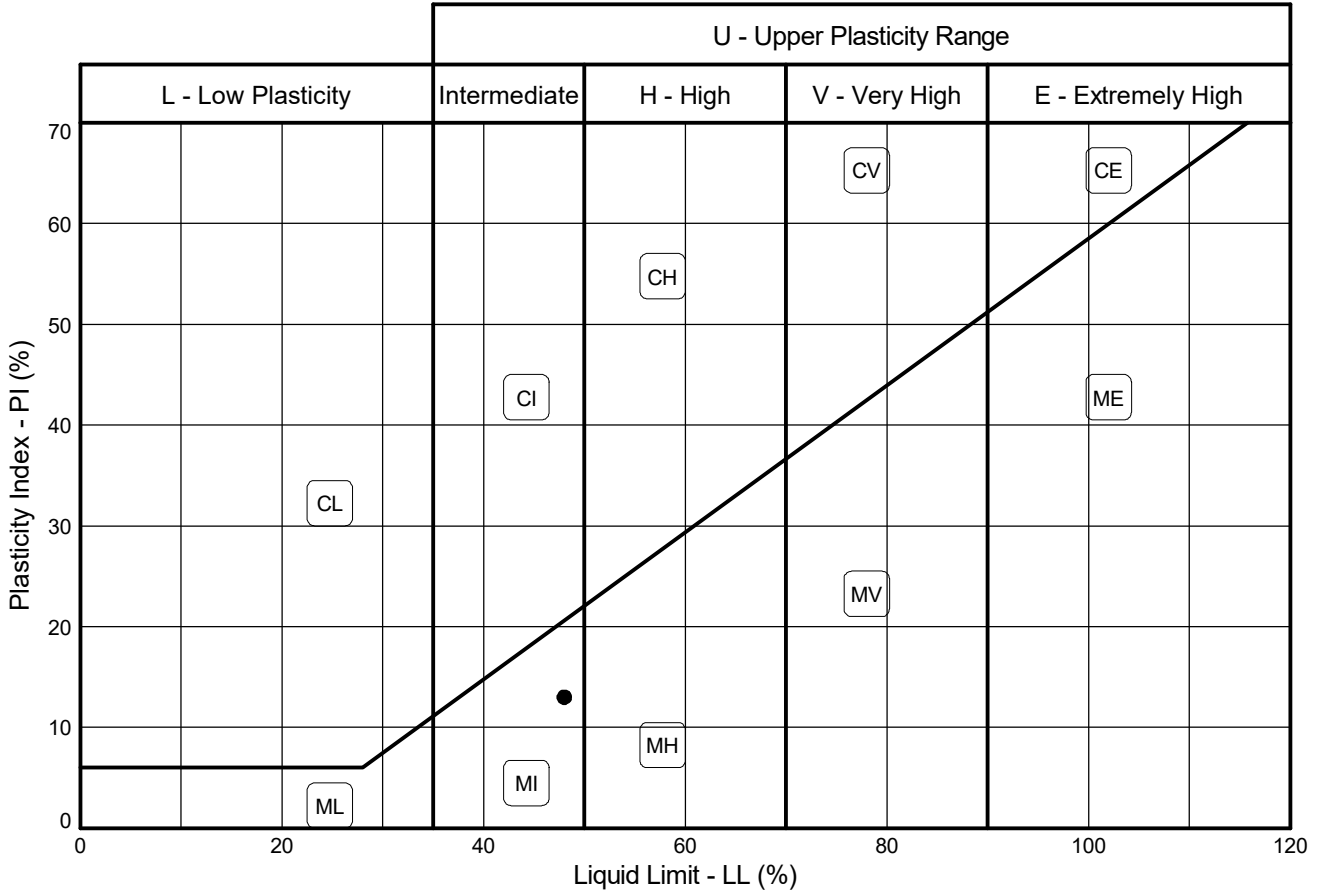
In accordance with clauses 3.2,4.3,4.4,5.3,5.4,7.2,8.2,8.3 of BS1377:Part 2:1990

Exploratory Position ID	Sample Ref	Sample Type	Depth (m)	Moisture Content %	Liquid Limit %	Plastic Limit %	Plasticity Index	% <425µm	Description of Sample
TP11	21/11658/19	D	1.70	81	48	35	13	91	Black mottled dark grey slightly gravelly slightly sandy SILT with organics
TP13	21/11658/23	D	1.30	18	NP	NP	NP	68	Brown mottled orange slightly gravelly very clayey SAND

 <p>STRUCTURAL SOILS LTD</p>	<p>Contract: P21-00134</p>	<p>Contract Ref: 584682</p> 
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PLASTICITY CHART - PI Vs LL

In accordance with BS5930:2015
Testing in accordance with BS1377-2:1990

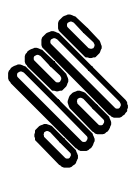


Sample Identification			BS Test Method #	Preparation Method +	MC %	LL %	PL %	PI %	<425µm %	Lab location	Notes
Exploratory Position ID	Sample	Depth (m)									
●	TP11	21/11658/19D	3.2/4.3/5.3/5.4	4.2.4	81	48	35	13	91	T	
	TP13	21/11658/23D	3.2/4.3/5.3/5.4	4.2.4	18	NP	NP	NP	68	T	

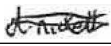

Tested in accordance with the following clauses of BS1377-2:1990.
 3.2 - Moisture Content
 4.3 - Cone Penetrometer Method
 4.4 - One Point Cone Penetrometer Method
 4.6 - One Point Casagrande Method
 5.3 - Plastic Limit Method
 5.4 - Plasticity Index

+ Tested in accordance with the following clauses of BS1377-2:1990.
 4.2.3 - Natural State
 4.2.4 - Wet Sieved
 Key: * = Non-standard test, NP = Non plastic.

Lab location: B = Bristol (BS3 4AG), C = Castleford (WF10 1NJ), H = Hemel Hempstead (HP3 9RT), T = Tonbridge (TN11 9HU)



STRUCTURAL SOILS
 Anerley Court
 Half Moon Lane
 Hildenborough
 Tonbridge TN11 9HU

Compiled By		Date
 DAVID NICKELLS		16/11/21
Contract		Contract Ref:
P21-00134		584682
		

GINT_LIBRARY_V10_01_GLB_LibVersion: v8_07_001 ProjVersion: v8_07 | Graph L - ALINE STANDARD - A4P | 584682-P21-00134-ENVIROLAB-21-11658.GPJ - v10_01_16/11/21 - 14:52 | DN1 |

Appendix VIII

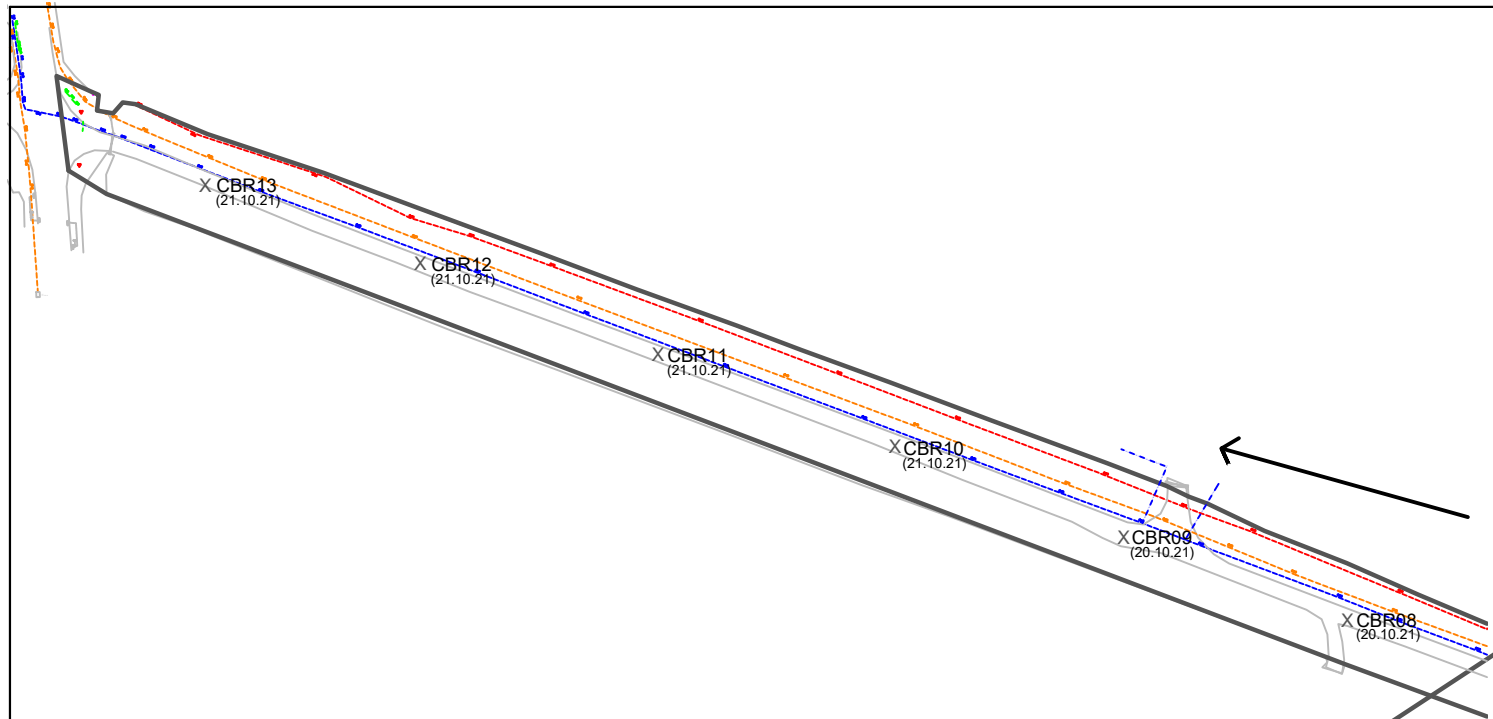
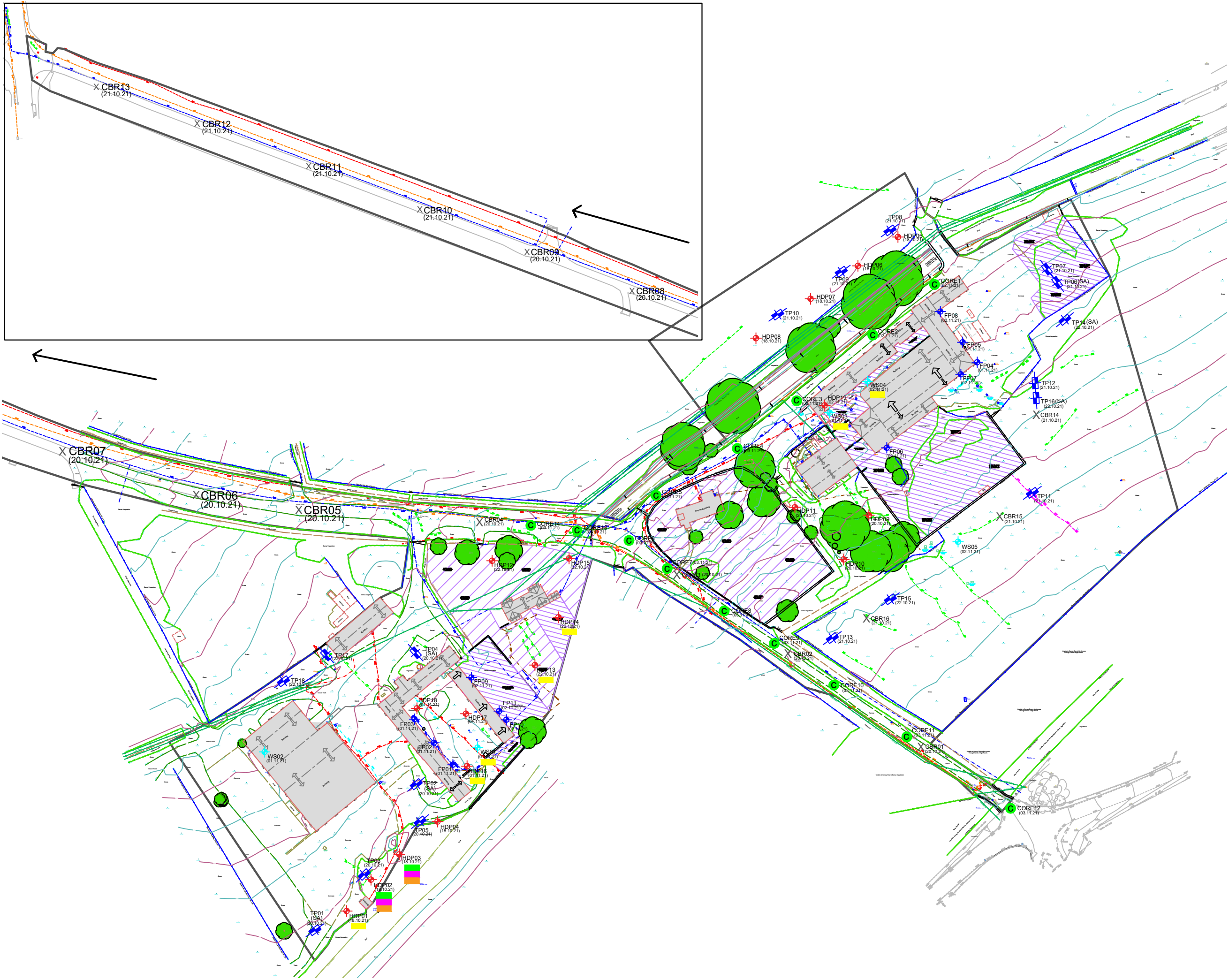
Screened Soil Testing Results

Envirolab Job Number: 21/12048
 Client: MET Engineers Ltd
 Client Project Name: Manor Farm, Carburton
 Client Project Ref: P21-00134

Lab Sample ID	21/12048/1	21/12048/2	21/12048/3	21/12048/4	21/12048/5	21/12048/6	21/12048/7	21/12048/8	21/12048/9	21/12048/10	21/12048/11	21/12048/12	21/12048/13	21/12048/14	21/12048/15	21/12048/16	21/12048/17				
Client Sample No	HDP16	HDP17	HDP18	WS01	WS01	WS02	WS02	WS03a	WS03b	WS03	WS04a	WS04b	WS04	WS05	WS05	WS05	HDP19				
Depth to Top	0.40	0.30	0.45	0.30	2.00	0.50	1.30	0.50	1.00	1.50	0.40	1.10	2.00	0.40	1.10	1.80	0.10				
Depth to Bottom	0.40	0.30	0.45	0.30	2.00	0.50	1.30	0.50	1.00	1.50	0.40	1.10	2.00	0.40	1.10	1.80	0.10				
Date Sampled	01-Nov-21	01-Nov-21	01-Nov-21	01-Nov-21	01-Nov-21	01-Nov-21	01-Nov-21	01-Nov-21	01-Nov-21	01-Nov-21	02-Nov-21	02-Nov-21	02-Nov-21	02-Nov-21	02-Nov-21	02-Nov-21	01-Nov-21				
Sample Type	Soil - ES	Solid	Soil - ES	Soil - ES	Soil - D	Soil - ES	Soil - D	Soil - ES	Soil - ES	Soil - D	Soil - ES	Soil - ES	Soil - D	Soil - ES	Soil - B	Soil - D	Soil - ES				
Limit of Detection																					
Units																					
Method																					
Sample Matrix Code	6AE	7	4A	5AE	4A	4AE	5AE	4AB	4A	4A	4A	4A	4A	4AE	5A	4A	4AB				
% Stones >10mm	% w/w	0.1	A-T-044	16.7	<0.1	9	20	<0.1	7.5	<0.1	17.5	<0.1	<0.1	5.3	1.8	<0.1	4.9	14.9	1.4	8.2	
pH	pH	0.01	A-T-031e					8.42		8.84		8.66									
Sulphate (water sol 2:1)	g/l	0.01	A-T-026s					<0.01		0.02		<0.01									
Organic matter	% w/w	0.1	A-T-032 CM	17.2	11.4	2.5	4.8		<0.1	2.8	<0.1		0.4	<0.1		1.6				0.4	
Arsenic	mg/kg	1	A-T-024s	12	2	2	6		<1	9	8		45	5		2				3	37
Cadmium	mg/kg	0.5	A-T-024s	0.9	0.8	<0.5	<0.5		<0.5	<0.5	<0.5		<0.5	<0.5		<0.5				<0.5	11
Copper	mg/kg	1	A-T-024s	70	12	9	23		4	40	9		22	4		10				6	2400
Chromium	mg/kg	1	A-T-024s	16	9	10	9		5	6	9		6	6		6				9	910
Chromium (hexavalent)	mg/kg	1	A-T-046s	<1	<1	<1	<1		<1	<1	<1		<1	<1		<1				<1	6
Lead	mg/kg	1	A-T-024s	478	52	40	326		2	2	5		64	3		45				39	200
Mercury	mg/kg	0.17	A-T-024s	1.02	2.49	0.46	1.43		<0.17	0.89	<0.17		0.23	<0.17		<0.17				<0.17	40
Nickel	mg/kg	1	A-T-024s	15	7	8	7		8	7	7		7	5		6				7	130
Selenium	mg/kg	1	A-T-024s	<1	<1	<1	<1		<1	<1	<1		<1	<1		<1				<1	250
Zinc	mg/kg	5	A-T-024s	254	64	66	83		15	50	41		34	15		52				27	3700
Asbestos in soil (inc. matrix)	A-T-045	NAD	NAD	NAD	NAD		NAD		NAD	NAD		NAD	NAD		NAD		NAD				
Asbestos ACM - Suitable for Water Absorption Test?	A-T-045	N/A	N/A	N/A	N/A		N/A		N/A	N/A		N/A	N/A		N/A		N/A				
PAH-16MS																					
Acenaphthene	mg/kg	0.01	A-T-019s	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01		<0.01	<0.01		<0.01				<0.01	210
Acenaphthylene	mg/kg	0.01	A-T-019s	0.02	0.01	<0.01	<0.01		<0.01	0.04	<0.01		<0.01	<0.01		<0.01				<0.01	170
Anthracene	mg/kg	0.02	A-T-019s	0.03	<0.02	0.06	<0.02		<0.02	0.04	<0.02		<0.02	<0.02		<0.02				<0.02	2400
Benzo(a)anthracene	mg/kg	0.04	A-T-019s	0.19	0.08	0.05	0.13		<0.04	0.26	<0.04		<0.04	<0.04		<0.04				<0.04	7.2
Benzo(a)pyrene	mg/kg	0.04	A-T-019s	0.16	0.1	0.05	0.12		<0.04	0.22	<0.04		<0.04	<0.04		<0.04				<0.04	2.2
Benzo(b)fluoranthene	mg/kg	0.05	A-T-019s	0.19	0.12	0.06	0.14		<0.05	0.24	<0.05		<0.05	<0.05		<0.05				<0.05	2.6
Benzo(g)perylene	mg/kg	0.05	A-T-019s	0.06	0.06	<0.05	0.06		<0.05	0.07	<0.05		<0.05	<0.05		<0.05				<0.05	320
Benzo(k)fluoranthene	mg/kg	0.07	A-T-019s	0.08	<0.07	<0.07	<0.07		<0.07	0.11	<0.07		<0.07	<0.07		<0.07				<0.07	77
Chrysene	mg/kg	0.06	A-T-019s	0.19	0.11	0.07	0.13		<0.06	0.26	<0.06		<0.06	<0.06		<0.06				<0.06	15
Dibenzo(ah)anthracene	mg/kg	0.04	A-T-019s	<0.04	<0.04	<0.04	<0.04		<0.04	<0.04	<0.04		<0.04	<0.04		<0.04				<0.04	0.24
Fluoranthene	mg/kg	0.08	A-T-019s	0.3	0.19	0.15	0.23		<0.08	0.55	<0.08		<0.08	<0.08		<0.08				<0.08	280
Fluorene	mg/kg	0.01	A-T-019s	0.01	<0.01	<0.01	<0.01		<0.01	0.03	<0.01		<0.01	<0.01		<0.01				<0.01	170
Indeno(1,2,3-cd)pyrene	mg/kg	0.03	A-T-019s	0.07	0.06	<0.03	0.07		<0.03	0.09	<0.03		<0.03	<0.03		<0.03				<0.03	27
Naphthalene	mg/kg	0.03	A-T-019s	0.11	<0.03	<0.03	<0.03		<0.03	<0.03	<0.03		<0.03	<0.03		<0.03				<0.03	2.3
Phenanthrene	mg/kg	0.03	A-T-019s	0.19	0.06	0.09	0.09		<0.03	0.44	<0.03		<0.03	<0.03		<0.03				<0.03	95
Pyrene	mg/kg	0.07	A-T-019s	0.25	0.17	0.13	0.22		<0.07	0.43	<0.07		<0.07	<0.07		<0.07				<0.07	620
Total PAH-16MS	mg/kg	0.01	A-T-019s	1.85	0.96	0.6	1.19		<0.08	2.78	<0.08		<0.08	<0.08		<0.08				<0.08	-
TPH CWG																					
All >C5-C6	mg/kg	0.01	A-T-022s	<0.05	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01		<0.01	<0.01		<0.01				<0.01	42
All >C6-C8	mg/kg	0.01	A-T-022s	<0.05	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01		<0.01	<0.01		<0.01				<0.01	100
All >C8-C10	mg/kg	1	A-T-055s	1	<1	<1	<1		<1	<1	<1		<1	<1		<1				<1	27
All >C10-C12	mg/kg	1	A-T-055s	<1	<1	<1	<1		<1	<1	<1		<1	<1		<1				<1	130
All >C12-C16	mg/kg	1	A-T-055s	2	<1	<1	<1		<1	<1	<1		<1	<1		<1				<1	1100
All >C16-C21	mg/kg	1	A-T-055s	4	<1	<1	<1		<1	2	<1		<1	<1		<1				<1	65000
All >C21-C35	mg/kg	1	A-T-055s	13	3	2	5		9	3	<1		<1	<1		2				2	65000
Total Aliphatics	mg/kg	1	A-T-055s	20	3	2	5		9	7	<1		<1	<1		2				2	-
Aro >C5-C7	mg/kg	0.01	A-T-022s	<0.05	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01		<0.01	<0.01		<0.01				<0.01	70
Aro >C7-C8	mg/kg	0.01	A-T-022s	<0.05	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01		<0.01	<0.01		<0.01				<0.01	130
Aro >C8-C10	mg/kg	1	A-T-055s	2	<1	<1	<1		<1	<1	<1		<1	<1		<1				<1	34
Aro >C10-C12	mg/kg	1	A-T-055s	2	<1	<1	<1		<1	<1	<1		<1	<1		<1				<1	74
Aro >C12-C16	mg/kg	1	A-T-055s	6	<1	<1	<1		<1	4	<1		<1	<1		<1				<1	140
Aro >C16-C21	mg/kg	1	A-T-055s	11	2	<1	5		<1	9	<1		<1	<1		<1				<1	260
Aro >C21-C35	mg/kg	1	A-T-055s	30	10	1	18		6	16	<1		<1	<1		1				<1	1100
Total Aromatics	mg/kg	1	A-T-055s	51	12	1	24		7	30	<1		<1	<1		1				<1	-
TPH (All & Aro >C5-C35)	mg/kg	1	A-T-055s	71	15	3	28		16	37	<1		<1	<1		3				<1	70
BTEX - Benzene	mg/kg	0.01	A-T-022s	<0.05	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01		<0.01	<0.01		<0.01				<0.01	0.087
BTEX - Toluene	mg/kg	0.01	A-T-022s	<0.05	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01		<0.01	<0.01		<0.01				<0.01	130
BTEX - Ethyl Benzene	mg/kg	0.01	A-T-022s	<0.05	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01		<0.01	<0.01		<0.01				<0.01	47
BTEX - m & p Xylene	mg/kg	0.01	A-T-022s	<0.05	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01		<0.01	<0.01		<0.01				<0.01	56
BTEX - o Xylene	mg/kg	0.01	A-T-022s	<0.05	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01		<0.01	<0.01		<0.01				<0.01	60
MTBE	mg/kg	0.01	A-T-022s	<0.05	<0.01	<0.01	<0.01														

Appendix IX

Site Investigation Plan Showing Soil Contamination Exceedances



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1. Do not scale dimensions from this drawing in either paper or electronic format.
2. To be read in conjunction with all relevant Engineer's, Architect's and Other Drawings and specifications.
3. All building products to be used in strict accordance with the manufacturer's recommendations.
4. Any discrepancies are to be reported to the Engineer immediately.
5. Main Contractor to provide a detailed method statement for all works prior to commencement on site.

- = Windowless Sampler Borehole Location
- = Hand Dug Pit Location
- = Hand Dug Foundation Pit Location
- = Trial Pit Location
- = Road Core Hole Location
- = CBR Testing Location
- (SA) = Soakaway Testing Location

- Exceeding Contaminants in Soil:
- = Heavy Metals
 - = PAH
 - = TPH
 - = Asbestos

Issue	Date	Drawn	Description	Chk'd
3	21.12.21	YK	Plan updated to show the locations of exceeding contaminants in soil	--
2	19.10.21	YK	Final site investigation intrusive locations	--
1	15.07.21	YK	Proposed site investigation intrusive locations	--



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Client
Welbeck Estates Company Ltd

Project
**P21-00134
 Manor Farm, Carburton**

Title
**Site Investigation Location Plan Showing
 Contamination Exceedances in Soil**

Drawn	YK	Checked	Scale
Date	21.12.21	Date	NTS
Status	Final	Original Size	A3

Drawing No
P21-00134-Met-M2-GE-001

Version
3

Appendix X

Soakaway Testing Results

SOAKAWAY LOG:	
Date:	20/10/21
Project Number:	P21-00134
Project Name:	Manor Farm, Carburton
Location:	TP01

Time Elapsed (mins):	Water Level (m):		
	Test 1:	Test 2:	Test 3:
0	300	-	-
1	300	-	-
2	300	-	-
3	290	-	-
4	290	-	-
5	290	-	-
10	300 (Walls Collapsed)	-	-
15	300	-	-
20	300	-	-
25	300	-	-
30	290	-	-
45	290	-	-
60	290	-	-
75	280	-	-
90	275	-	-
105	270	-	-
120	270	-	-

BRE 365 SOAKAWAY LOG

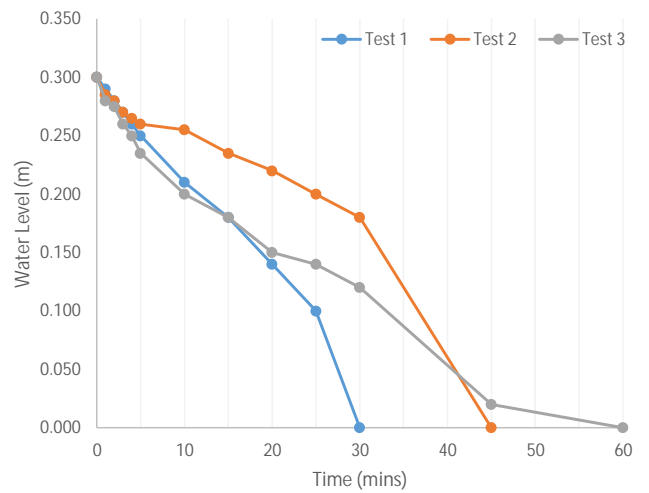
Date:	20/10/2021
Project No.	P21-00134
Project Title:	Manor Farm, Carburton
Trial Pit No:	TP02

Depth Of Trial Pit (m)	2
Depth of Water Test (m)	0.3
Width Of Water Test (m)	0.6
Length of Water Test (m)	1.65



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

Test 1		Test 2		Test 3	
Mins	WL (m)	Mins	WL (m)	Mins	WL (m)
0	0.300	0	0.300	0	0.300
1	0.290	1	0.285	1	0.280
2	0.280	2	0.280	2	0.275
3	0.270	3	0.270	3	0.260
4	0.260	4	0.265	4	0.250
5	0.250	5	0.260	5	0.235
10	0.210	10	0.255	10	0.200
15	0.180	15	0.235	15	0.180
20	0.140	20	0.220	20	0.150
25	0.100	25	0.200	25	0.140
30	0.000	30	0.180	30	0.120
45		45	0.000	45	0.020
60		60		60	0.000
75		75		75	
90		90		90	
105		105		105	
120		120		120	



	Test 1	Test 2	Test 3
Start Water Depth (m)	0.300	0.300	0.300
Start time (mins)	0	0	0
Finish Water depth (mbgl)	0.000	0.000	0.000
Finish time (mins)	30	45	60
Effective Area at 50% (m ²)	1.665	1.665	1.665
Effective time (mins)	20	25	35
Effective Volume (m ³)	0.1485	0.1485	0.1485
Permeability Coefficient " f "	7.43E-05	5.95E-05	4.25E-05

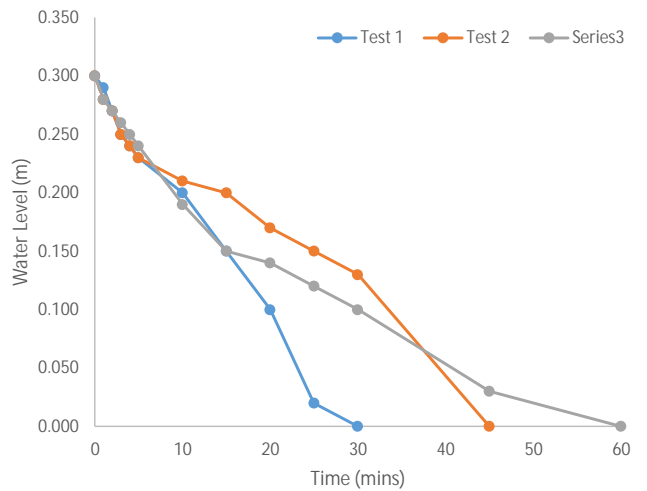
Average Coefficient of Permeability	5.88E-05
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BRE 365 SOAKAWAY LOG

Date:	22/10/2021
Project No.	P21-00134
Project Title:	Manor Farm, Carburton
Trial Pit No:	TP04

Depth Of Trial Pit (m)	2.1
Depth of Water Test (m)	0.3
Width Of Water Test (m)	0.6
Length of Water Test (m)	1.9

Test 1		Test 2		Test 2	
Mins	WL (m)	Mins	WL (m)	Mins	WL (m)
0	0.300	0	0.300	0	0.300
1	0.290	1	0.280	1	0.280
2	0.270	2	0.270	2	0.270
3	0.250	3	0.250	3	0.260
4	0.240	4	0.240	4	0.250
5	0.230	5	0.230	5	0.240
10	0.200	10	0.210	10	0.190
15	0.150	15	0.200	15	0.150
20	0.100	20	0.170	20	0.140
25	0.020	25	0.150	25	0.120
30	0.000	30	0.130	30	0.100
45		45	0.000	45	0.030
60		60		60	0.000
75		75		75	
90		90		90	



	Test 1	Test 2	Test 2
Start Water Depth (m)	0.300	0.300	0.300
Start time (mins)	0	0	0
Finish Water depth (mbgl)	0.000	0.000	0.000
Finish time (mins)	30	45	45
Effective Area at 50% (m ²)	1.89	1.89	1.89
Effective time (mins)	15	35	50
Effective Volume (m ³)	0.171	0.171	0.171
Permeability Coefficient " f "	1.01E-04	4.31E-05	3.02E-05

Average Coefficient of Permeability	5.79E-05
-------------------------------------	----------



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SOAKAWAY LOG:	
Date:	21.10.21
Project Number:	P21-00134
Project Name:	Manor Farm, Carburton
Location:	TP06

Time Elapsed (mins):	Water Level (m):		
	Test 1:	Test 2:	Test 3:
0	300	300	-
1	290	300	-
2	280	300	-
3	280	290	-
4	270	290	-
5	270	290	-
10	250	280	-
15	240	270	-
20	220	270	-
25	210	260	-
30	200	260	-
45	200	250	-
60	180	240	-
75	160	240	-
90	140	230	-
105	140	220	-
120	140	220	-

SOAKAWAY LOG:	
Date:	22/10/21
Project Number:	P21-00134
Project Name:	Manor Farm, Carburton
Location:	TP14

Time Elapsed (mins):	Water Level (m):		
	Test 1:	Test 2:	Test 3:
0	300	300	300
1	290	290	290
2	280	280	280
3	270	260	280
4	260	260	280
5	250	250	280
10	240	250	270
15	220	240	260
20	210	240	250
25	200	230	240
30	200	220	230
45	180	200	220
60	160	190	210
75	130	170	200
90	110	160	195
105	100	150	180
120	70	140	180

SOAKAWAY LOG:	
Date:	22/10/21
Project Number:	P21-00134
Project Name:	Manor Farm, Carburton
Location:	TP16

Time Elapsed (mins):	Water Level (m):		
	Test 1:	Test 2:	Test 3:
0	300	-	-
1	295	-	-
2	290	-	-
3	290	-	-
4	290	-	-
5	290	-	-
10	270	-	-
15	260	-	-
20	250	-	-
25	240	-	-
30	220	-	-
45	220	-	-
60	200	-	-
75	180	-	-
90	180	-	-
105	180	-	-
120	180	-	-

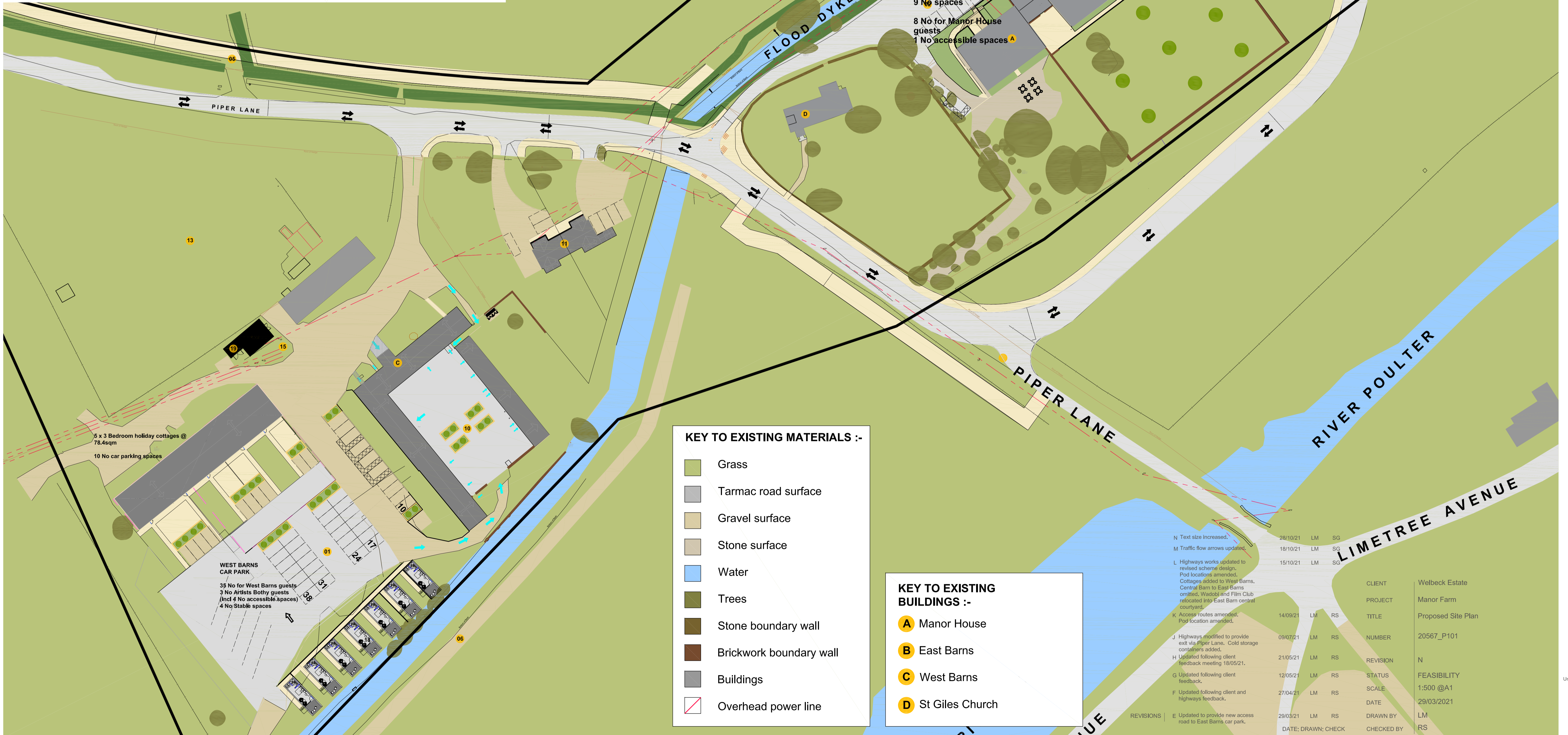
Appendix XI

Proposed Site Layout Plan

KEY TO EXISTING BUILDINGS :-

- 01 Area of existing hardstanding used for car parking to serve west barn with the introduction of raised timber beds to define routes and to provide privacy.
- 02 Area of existing hardstanding used for car parking to serve manor house guests and arrivals for check-in
- 03 Area of existing hardstanding extended for car parking to serve east barns and restaurant
- 04 Piper Lane to be upgraded to provide vehicle access from Limetree Avenue
- 05 Existing bridlway to be retained to provide access to horse grazing paddocks and riding trails
- 06 Existing footpath connection to Carburton Village
- 07 Traffic calming speed bumps
- 08 Existing bridge retained (pedestrian access only)
- 09 Proposed new footpath and bridlway links to neighbouring Clumber Park
- 10 Existing hard landscaping retained and new timber raised beds provided where required for privacy.
- 11 Existing semi-detached housing to be converted to self-catering accommodation.
- 12 Potential for new Stable Block to offer 'bring your own horse' holidays
- 13 Adjacent fields utilised for guests horse grazing / pasture

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- 14 Larger parking spaces for horsebox use
- 15 Existing overhead electrical substation removed and relocated. Overhead cables running across the site to be buried.
- 16 Proposed new stair to provide access to first floor bedrooms
- 17 Outdoor seating deck/terrace for bar/restaurant with views south across water meadows
- 18 Area for Artist's Bothy accommodation (20.5sq.m)
- 19 Sub-station location
- 20 Energy Centre locations
- 21 Guest cycle stands
- 22 Cold Storage Containers



KEY TO EXISTING MATERIALS :-

- Grass
- Tarmac road surface
- Gravel surface
- Stone surface
- Water
- Trees
- Stone boundary wall
- Brickwork boundary wall
- Buildings
- Overhead power line

KEY TO EXISTING BUILDINGS :-

- A Manor House
- B East Barns
- C West Barns
- D St Giles Church

REVISIONS

N Text size increased.	28/10/21	LM	SG
M Traffic flow arrows updated.	18/10/21	LM	SG
L Highways works updated to revised scheme design. Pod locations amended. Cottages added to West Barns. Central Barn to East Barns omitted. Wadoji and Film Club relocated into East Barn central courtyard.	15/10/21	LM	SG
K Access routes amended. Pod location amended.	14/09/21	LM	RS
J Highways modified to provide exit via Piper Lane. Cold storage containers added.	09/07/21	LM	RS
H Updated following client feedback meeting 18/05/21.	21/05/21	LM	RS
G Updated following client feedback.	12/05/21	LM	RS
F Updated following client and highways feedback.	27/04/21	LM	RS
E Updated to provide new access road to East Barns car park.	29/03/21	LM	RS

DATE: DRAWN: CHECK: CHECKED BY:

CLIENT	Welbeck Estate
PROJECT	Manor Farm
TITLE	Proposed Site Plan
NUMBER	20567_P101
REVISION	N
STATUS	FEASIBILITY
SCALE	1:500 @A1
DATE	29/03/2021
DRAWN BY	LM
CHECKED BY	RS