

**AMENDED**



**Validation report**

**9a Darwin Street, Kirton in Lindsey**

Produced for C&K Builders (Mr K McCabe)

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## Document history

<b>Title:</b>	Phase 4: Validation report 9a Darwin Street, Kirton in Lindsey
<b>Client:</b>	C&K Builders (Mr Ken McCabe)
<b>Date:</b>	September 2020
<b>Report number:</b>	1166/4758/P/P4

<i>Document number:</i>				
<i>Revision</i>	<i>Purpose</i>	<i>Originated</i>	<i>Checked</i>	<i>Date</i>
0.0	Document for issue	D Driver <b>Director</b>	R Lester <b>Geo-Env Engineer</b>	Sept 2020
1.0	Additional information	D Driver <b>Director</b>	M Driver <b>Director</b>	Oct 2020

# **Phase 4 (Validation) report**

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# 1 Introduction

The client, C&K Builders (Mr K McCabe), have undertaken the remediation of a site known as 9a Darwin Street in Kirton in Lindsey, North Lincolnshire. The land will be hereinafter described as *the site*.

Humberside Materials Laboratory were appointed as the independent consultant to witness and validate the remediation. This report is produced to this effect for submission to the local authority as evidence.

## 1.1 Conditions and Limitations

This report is produced solely for the client and should only be copied in full. When transmitted electronically, the definitive copy of the report is held by Humberside Materials Laboratory Ltd.

This report is prepared on the assumption that all facts have been disclosed.

The comments given in this report and the opinions expressed assume that conditions do not vary beyond the range revealed by this study and the information provided in the production of this report is complete and reliable.

## 2 Background

The site has been the subject of previous site investigation reports by Humberside Material Laboratory (HML), site plans are within appendix A.

- HML (Phase 1) Desk study report Revision A (1166/4758/P1/P) dated January 2019
- HML (Phase 2) Site investigation report Revision 1.0 (1166/4758/P/P2) dated July 2019
- HML (Phase 3) Method statement (1166/4758/P/P3) dated July 2019

The above reports identified contamination-related issues as detailed in the HML remediation method statement (HML Ref: 0135/4970/P/P3). In summary, these include:

- One potentially elevated species of PAH in the on-site mound / stockpile
- There is evidence of potential contamination in the near surface soils in the northeast part of the site (in BH2). Slightly elevated PAHs were found in a sample from BH2. Asbestos fibres (chrysotile, loose) were also detected.
- Some potential contamination was found in the near surface soils in the southeast corner of the site (in BH4). A slightly elevated level of lead was detected in shallow natural soil from BH4.
- No elevated TPH contamination has been found. However, some suspected traces of red diesel were detected.

Any unforeseen contamination encountered during the development of the site should be reported to the local authority. Work should be halted in any area of the revealed potential contamination and the contamination investigated/assessed to the satisfaction of the local authority.

## 3.0 Site

### 3.1 Location and description

The site is the land occupied by 9a Darwin Street, located on the north side of Darwin Street, Kirton in Lindsey, North Lincolnshire, DN21 4BZ. The site is centred around national grid reference (NGR) 493287, 398801. A site location plan is included in Appendix A.

The site is about 35m long and about 15m wide.

There are no significant above-ground features on the site, apart from a site stockpile / mound of topsoil in the northeast corner of the site. The stockpile appears to mainly consist of natural soils (clays, silts and sands).

There are concrete floor slabs in the southwest part of the site and some gravel hardstanding in the east part of the site. There is also some grassy bare earth to the rear of the site.

The entrance to the site is gated and walled with a drop kerb allowing vehicle access from Darwin Street. The other boundaries are defined by brick and masonry walls, tree and shrub vegetation, timber fencing and neighbouring brick buildings.

There are also several trees in adjacent residential properties. There are leylandii along the rear boundary and a tall tree adjacent to the east boundary.

No visual or olfactory evidence of potential contamination was noted during the site works. No surface staining was noticed or evidence of vegetative distress. No tanks or containers for liquid storage were found. No unusual odour was detected.

### 3.2 Proposed development

The proposed development comprises a pair of low-rise semi-detached dwellings located near the centre of the site. The front (south) part of the site will be hardstanding and the rear (north) will be gardens.

#### *2.21 Garden and hardstanding areas*

The client has recently confirmed the details of the front and rear gardens. These are as follows.

The front of the site will be covered entirely with hardstanding which will provide off-road parking for the proposed dwellings as well as pedestrian access.

The rear gardens will consist of patio areas adjacent to the houses with soft landscaping to the rear. The patio areas will extend about 3.7m (i.e. 12ft) beyond the rear walls of the proposed dwellings. At this stage, it is understood that the finished floor levels in the soft landscaped area could be elevated by about 0.5m above average existing ground levels with the aid of traditional short retaining walls (i.e. dwarf walls).

The space around the site is limited and access and egress will be further restricted as the structural works commence. Due to boundary restrictions (i.e. fences and trees) the only way to the rear of the property is through the front of the property. Only narrow pathways will remain around the outside of the proposed building once it is built.

A proposed development layout is shown in Appendix A.

## 4 Remediation

### 4.1 Structural work

Structural work to the properties was undertaken after the initial preparation of the rear garden areas due to practical plant assess, only foot access will be available to the rear of the properties post construction. The initial preparation included removal of made ground / soil to required depth, placement of a geotextile, importation of granular capillary break layer and placement of topsoil. A proposed retaining wall was built to offer protection to the remediation works during construction.

### 4.2 Implementation

The made ground and natural soils within the rear garden areas were excavated to 600mm below proposed final levels, as discussed within the phase 3. This would equate to approximately 100mm in depth as the rear garden areas are to be raised by 500mm. Level controls were monitored by the contractor during remediation, this included datum points from the adjoining block wall, brick wall and fence line. Initial spoil from the excavation were placed directly into a licensed waste skip and subsequently removed by the provider to an appropriate waste management facility (Ellgia, Scunthorpe). Further removal from site foundation digs was via spoil loaded directly into lorries and removed to an appropriate waste management facility (Sandstop Quarries Ltd, Drax golf course). Placement of the subsequent geotextile membrane, granular capillary layer and topsoil took place within the following days. Photographs below show the following,

- Removal of spoil
- Placement of geotextile membrane
- Placement of granular capillary break layer
- Construction of retaining wall to rear gardens
- Evidence of level control
- Placement of topsoil



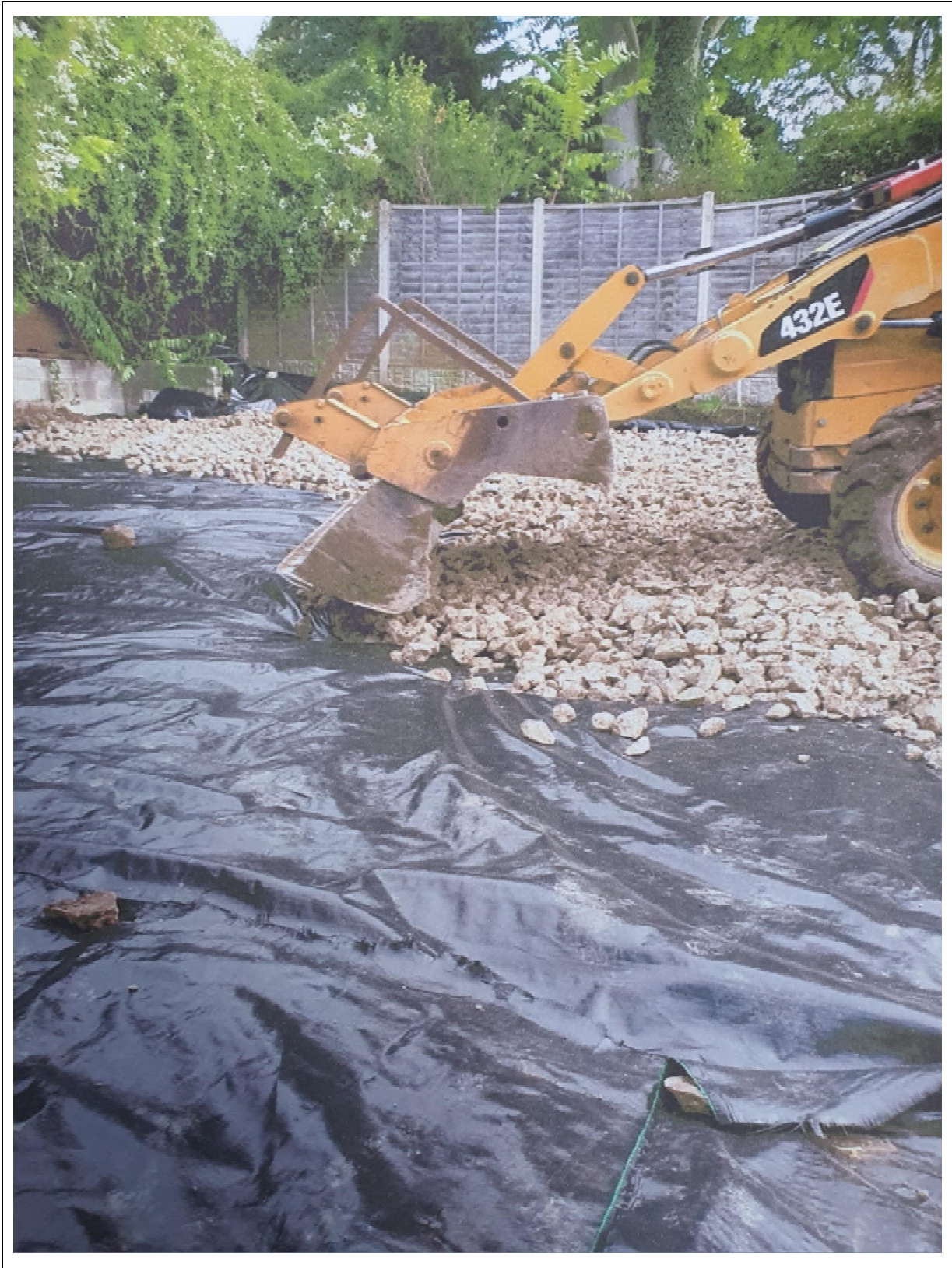
Made ground /soil removal from rear garden areas



On-site waste skip serial number



Placement of geotextile





Placement of granular capillary break layer



Construction of retaining wall





Evidence of level control



Placement of topsoil

As per the agreed plans the rear gardens include hardstanding patio areas, hardstanding side walkways and hardstanding parking areas to the front of the properties.

Hardstanding to the rear gardens and side walkways included limestone and concrete cast slabs on 50mm down chalk granular fill supplied by Brianplant loaded from Singleton Birch, this included two deliveries on 23<sup>rd</sup> October 2019 totalling 37tonnes with conveyance note no's 11760 and 11761, a copy of the conveyance notes are included within appendix C.

Hardstanding to the front parking areas included 50mm down blast furnace slag granular fill supplied by Overhall Aggregates, test certificates for the material are provided within appendix C. Post the final validation visit the front parking area was surfaced with bituminous layers, this work was undertaken by Matte Black Surfacing Ltd, appendix C includes an invoice for the surfacing.

Photographs below show evidence of the above.



Plot 1 side walkway



Plot 2 side garden area and walkway



Plot 2 rear garden



Plot 1 rear garden



Plot 2 front parking area



Plot 1 front parking area

## 5 Validation

### 5.1 Contaminated material

Material identified within the phase 2 report as unsuitable to be retained within garden areas was excavated straight into an on-site waste management skip. This was then transported to a suitable waste management facility by a licensed haulage company at a later date. Ellgia were utilised for the skip and haulage with the waste being taken to FCC Winterton Landfill, Integrated Waste Management Winterton (DN15 9AP). This included one skip totalling 7 tonnes. Further soil from foundation excavations and general workings were loaded directly into lorries and transported to Drax Golf Course by Sandstop Quarries Ltd, this include two lorries totalling 39tonnes. Table 1 below summarises the removed waste removed with copies of the consignment notes included within appendix C.

Table 1 – Made ground / soil removed		
Date	Weight (tonnes)	Ticket No
24/10/2019	6.96	974893
26/09/2019	19.64	21121
	19.54	21123
<b>Total</b>	<b>46.14</b>	

### 5.7 Geotextile

A geotextile membrane was placed on the excavated areas within the gardens, photographic evidence of the membrane placement is included within section 4. The geotextile was sourced from Travis Perkins as a Wrekin woven geotextile Fastrack membrane, a delivery note is included within appendix C with Travis Perkins reference 09B82840.

### 5.8 Capillary layer

On 29<sup>th</sup> September 2019 a total of 39.64tonnes of 50mm clean Chalk granular fill was delivered from Brianplant Manton Quarry. A summary of the consignment notes is included below in table 2 with copies of the consignment notes included within appendix C.

Table 2 – Capillary layer		
Date	Weight (tonnes)	Ticket No
29/09/2019	19.64	235256
	19.75	235258
<b>Total</b>	<b>39.64</b>	

With a total area of 123m<sup>2</sup> mentioned above and a required minimum depth of 0.1m this would equal a required total 21tonnes utilising a bulk density of 1.70kg/m<sup>3</sup>. The total quantity delivered is greater than 21tonnes which indicates sufficient material to achieve an average capillary break layer of 0.15m in thickness.

Photograph within section 4.2 show the capillary layer to appear level with no major undulations indicating good level control. Trial pits within both plots were hand excavated on completion of the rear gardens to prove depths achieved, these were undertaken after seeding with some grass growth visible. In total three trial pits were excavated; these were evenly spaced throughout the garden areas. Locations of the trial pits are marked on the site plan within appendix A. The topsoil was excavated and placed to one side for sampling, this exposed the chalk granular capillary layer. The depth of the granular capillary layer was proven by further excavation to the geotextile layer. Table 3 below shows the depths encounter followed by photographic evidence.

Table 3 – depth of rear garden capillary layer			
Trial pit	Topsoil depth (mm)	Depth to geotextile membrane (mm)	Capillary layer depth (mm)
1	490	611	121
2	435	614	179
3	480	605	125



Trial pit 1 - rear garden granular capillary layer



Trial pit 2 - rear garden granular capillary layer



Trial pit 3 – rear garden granular capillary layer

The trial pits show an average depth of 142mm for the rear gardens.

One number sample of the chalk granular fill was taken on 24<sup>th</sup> August 2020 from a combined sample from the three trial pits within the rear gardens. The sample was subject to a suite of metals/metalloids, this was undertaken at a UKAS accredited laboratory with a sample reference 88704-1. Table 4 below shows assessment criteria for an imported inert quarried granular fill along with results from the analysis.

Table 4: assessment criteria & results		
Element	Residential with plant uptake GAC	Sample ref 88704 results
Arsenic (total)	37	6.1
Boron (water soluble)	290	0.5
Cadmium (total)	11	2.5
Chromium (III)	910	50
Copper (total)	2400	21
Lead (total)	200	19
Mercury (total)	1.2	<0.5
Nickel (total)	130	25
Selenium (total)	250	<0.3
Vanadium (total)	410	42

Results show no exceedances of the assessment criteria for a residential garden with plant uptake. This material as a capillary break layer is deemed suitable for use.

## 5.9 Topsoil

On 26<sup>th</sup> and 28<sup>th</sup> of September 2019 a total of 141.27tonnes of topsoil was delivered from Brianplant, Manton source. A summary of the consignment notes is included below in table 5 with copies of the consignment notes included within appendix C.

Date	Weight (tonnes)	Ticket No
26/09/2019	19.7	235259
	19.75	235261
	19.6	235264
	15.46	235257
	15.46	235260
	15.68	235262
	16.0	235265
28/09/2019	19.62	235266
<b>Total</b>	<b>141.27</b>	

With a total area of 123m<sup>2</sup> mentioned above and a required depth of 0.45m this would equal a required total 111tonnes utilising a bulk density of 2.00kg/m<sup>3</sup>. The total quantity delivered is greater than 111tonnes which indicates sufficient quantity to achieve a topsoil layer of 0.45m in thickness.

When delivered the topsoil was placed onto the granular capillary layer and transported around the site with appropriate plant, topsoil was only placed within the rear garden areas to prevent cross contamination. Photographs within section 4.2 show the topsoil placement. Trial pits within both plots were hand excavated on completion of the rear gardens to prove depths achieved, these were undertaken after seeding which some grass growth visible. In total three trial pits were excavated and evenly spaced throughout the garden areas; locations of the trial pits are marked on the site plan within appendix A. The topsoil was excavated and placed to one side for sampling, this exposed the chalk granular capillary layer. The depth of the topsoil was dipped from the top of the granular capillary layer to the surface. Table 6 below shows the depths encounter followed by photographic evidence.

Trial pit	Topsoil depth (mm)	Depth to geotextile membrane (mm)	Capillary layer depth (mm)
1	490	611	121
2	435	614	179
3	480	605	125



Trial pit 1 – rear garden topsoil



Trial pit 2 - rear garden topsoil



Trial pit 3 – rear garden topsoil

The trial pits show an average depth of 468mm for the rear gardens.

Sampling of the topsoil was undertaken during hand excavating the trial pits. In total three number samples were subject to suites of metal/metalloids, Poly Aromatic hydrocarbons (PAH) and Asbestos identification, a sample summary is included below in table 7,

<i>Sample</i>	<i>HML Sample ref. (S/_)</i>	<i>Chemtech sample ref.</i>	<i>Depth (m bgl)</i>	<i>Metals</i>	<i>Speciated PAHs</i>	<i>Asbestos</i>
HP1	56984	88704-1	0.05-0.4	✓	✓	✓
HP 2	56985	88704-2	0.05-0.4	✓	✓	✓
HP 3	56986	88704-3	0.05-0.4	✓	✓	✓

### 5.9.1 Metals and metalloids

Table 8 (below) gives the GAC for metal (and metalloid) contaminants considered for the site.

<i>Element</i>	<i>(mg/kg)</i>
Arsenic	37
Boron	290
Cadmium	11
Chromium III	910
Chromium VI	6
Copper	2400
Lead**	200
Mercury element	1.2
Mercury inorganic	40
Mercury methyl	11
Nickel	130
Selenium	250
Vanadium	410
Zinc	3700
* from LQM/CIEH (2015) except: ** from Defra (2014)	

Table 9 (below) gives the GAC (from LQM/CIEH, 2015) for speciated PAH contaminants. These vary with soil organic matter (SOM) content. At this stage, the most onerous SOM of 1% is assumed, which should be reasonably conservative.

Table 9: Soil GACs for PAH - Residential with plant uptake

<i>Element</i>	<i>SOM of 1%</i>	<i>SOM of 2.5%</i>	<i>SOM of 6%</i>
Acenaphthene	210	510	1100
Acenaphthylene	170	420	920
Anthracene	2400	5400	11000
Benzo(a)anthracene	7.2	11	13
Benzo(a)pyrene	2.2	2.7	3
Benzo(b)fluoranthene	2.6	3.3	3.7
Benzo(k)fluoranthene	77	93	100
Benzo(ghi)perylene	320	340	350
Chrysene	15	22	27
Dibenzo(ah)anthracene	0.36	0.38	0.4
Fluoranthene	280	560	890
Fluorene	170	400	860
Indeno(123-cd) pyrene	27	36	41
Naphthalene	3.3	5.6	13
Phenanthrene	95	220	440
Pyrene	620	1200	2000
BaP as Surrogate marker	0.79	0.98	1.1

All three samples show no exceedances for limits identified within tables 8 or 9 for Metals and PAH analysis. No asbestos was identified in any of the three samples. Considering the above the topsoil delivered to site is suitable to be retained on site as part of a cover system.

The complete test results are presented later (in Appendix B).

## 6 Conclusion

A total of 46.14 tonnes of existing site spoil was removed within garden areas prior to remediation. This consisted of spoil being loaded directly into an on-site skip or lorries and transported to an appropriate waste management facility by Ellgia or Sandstop Quarries Ltd.

Placement of an appropriate geo-textile membrane in the form of a Wrekin Woven Geotextile Fastrack membrane have been provided within section 5.7. The membrane was sourced from Travis Perkins. Evidence of its placement is included within section 4.2.

A total of 39.64 tonnes of 50mm down Chalk granular fill has been imported to provide a suitable capillary break layer, this was sourced from Singleton Birch, hauled by Brianplant. On site hand excavated trial pits show a capillary break layer average depth of 142mm. Chemical analysis shows the material to be suitable as a capillary break layer.

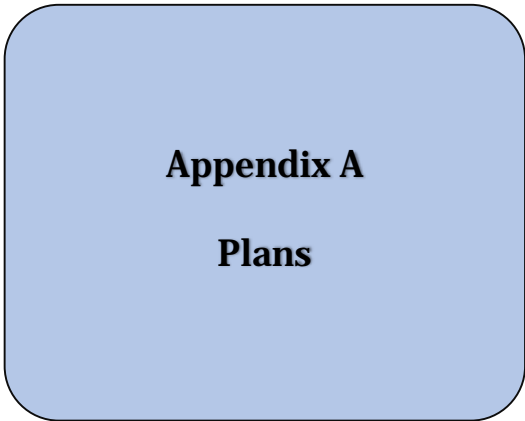
A total of 141.27 tonnes of topsoil has been imported, this was sourced from Brainplant, Manton as a greenfield topsoil. On site hand excavated trial pits show a topsoil layer average depth of 468mm. Chemical analysis shows the material to be suitable as a capillary break layer.

Photographic evidence has been provided throughout various stages of the remediation and a total average cover system of 605mm to 614mm has been achieved in the rear gardens. The cover system achieved meets the required depth agreed within the phase 3 method statement. Materials utilised are within the required specification for use within a cover system for a residential development.

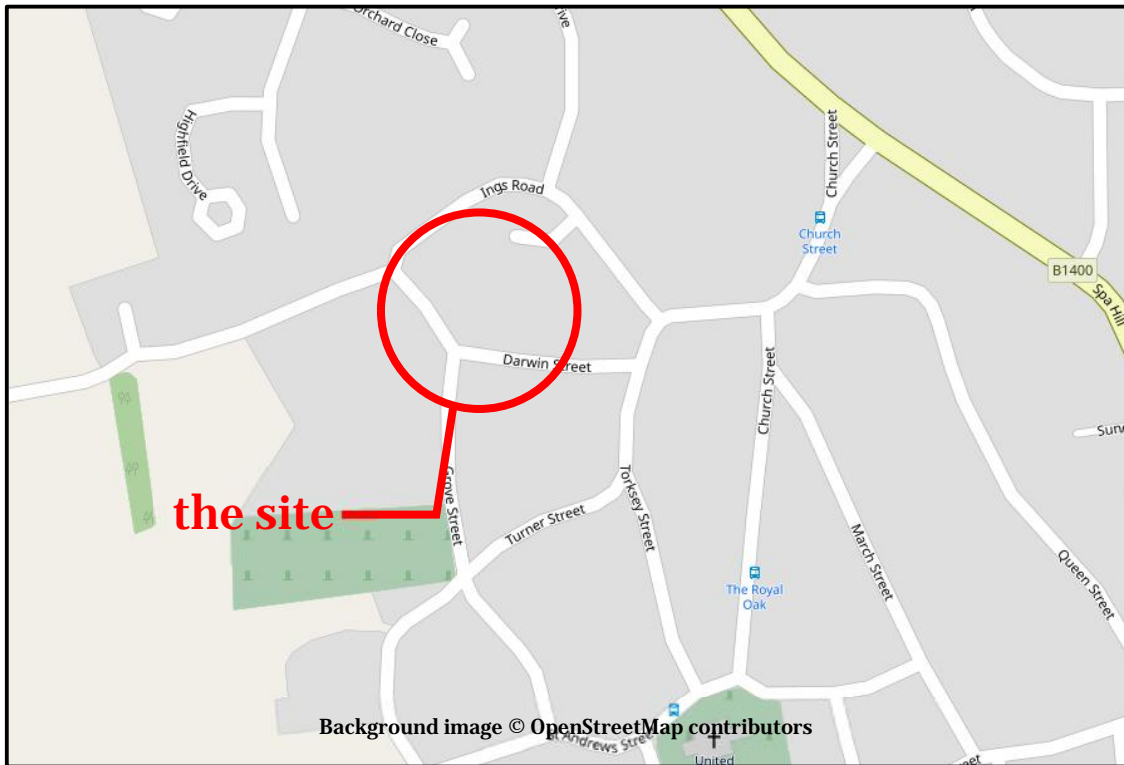
-- End of Report --

## 7 References

- BS 5930 (2015) Code of Practice for Site Investigations, British Standards Institute.
- BS 10175:2011 (plus A1:2013) Investigation of potentially contaminated sites – code of practice, British Standards Institute
- BS 8485:2007 Code of practice for the characterisation and remediation from ground gas in affected developments, British Standards Institute
- CLEA documents published by DEFRA and the Environment Agency.
- EA/Defra (2004) Model Procedures for the Management of Land Contamination, Contaminated Land Report 11, Environment Agency, Department for Environment Food and Rural Affairs. Bristol: Environment Agency.
- Harris, M. R., Herbert, S. M. and Smith, M. A. (2005) Remedial treatment for contaminated land, Vols I-XII, CIRIA Special Publication 164. London: CIRIA.
- LQM/CIEH S4Us for human health risk assessment
- NHBC (2006) NHBC Standards.
- Rudland, D. J., Lancefield, R. M., Mayell, P. N. (2001) CIRIA C552 Contaminated Land Risk Assessment: A guide to good practice, London: CIRIA.
- YALPAG The council contaminated land planning guidance document produced in collaboration with other local authority Yorkshire and Lincolnshire Pollution Advisory Group (YALPAG)



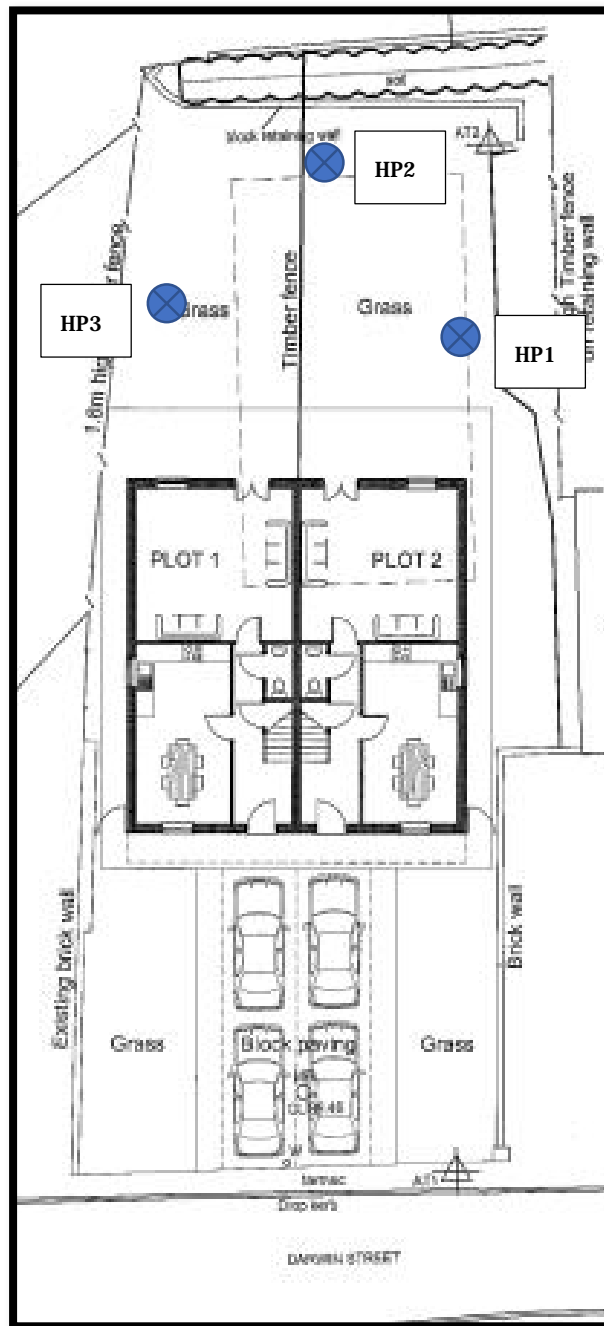
**Appendix A**  
**Plans**



Location plan



Aerial view of the site (north is up page)



Hand trial pit location plan



**Appendix B**  
**Test Reports**

## Humberside Materials Laboratory Ltd

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North Lincs DN20 8AR

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### TOPSOIL CLASSIFICATION - BS 3882:2015

<b>Sample Ref</b>	S/50053/01	<b>Client</b>	Brianplant
<b>Site</b>	Manton Quarry	<b>Date sampled</b>	04/09/2018
<b>Location</b>	current stock	<b>Sampled by</b>	M. Driver

		Test data		Class limits			
<b>Soil texture</b>				Multipurpose	Acidic	Low fertility	Calcareous
Clay content	%	11		5-35			
Silt content	%	20		0-65			
Sand content	%	55		30-85			
Soil organic matter clay 5-12	%	6.5		3-20	3-30	1-10	3-30
Soil organic matter clay 20-35	%	n/a		5-20	3-30	1-10	5-30
<b>Coarse fragments</b>							
>2	%	3.8		0-30			
>20	%	0		0-10			
>50	%	0		0			
<b>pH</b>							
		7.6		5.5-8.5	3.5-5.5	3.5-9.0	7.5-9.0
Carbonate	%	2.3					>1
<b>Available nutrients</b>							
Nitrogen	%	0.23		>0.15	>0.15	See a)	>0.15
Extractable Phosphorus	mg/l	17		16-140	16-140	<20	16-140
Extractable Potassium	mg/l	170		121-1500	121-1500		121-1500
Extractable Magnesium	mg/l	57		51-600	51-600	<600	51-600
<b>Carbon nitrogen ratio</b>							
		14:1		<20:1	<20:1	<35:1	<20:1
Exchangeable sodium	%	NR					
<b>Phytotoxic contaminants</b>							
Zinc	mg/kg	85		<300			
Copper	mg/kg	16		<200			
Nickel	mg/kg	15		<110			
<b>Visible contaminants</b>							
>2mm	%	<0.5		<0.5			
plastics	%	N.D.		<0.25			
Sharps	%	N.D.		0			
<b>Conductivity</b>							
	µs/cm	2300					

			<u>Domestic</u>	<u>Commercial</u>
<b>Contamination</b>				
Arsenic	mg/kg	19.0	37	640
Boron	mg/kg	<1	290	240000
Cadmium	mg/kg	<1	11	190
Chromium	mg/kg	19	910	8600
Copper	mg/kg	16	2400	68000
Nickel	mg/kg	15	130	980
Lead	mg/kg	44	200	1100-6000
Selenium	mg/kg	<3	250	12000
Mercury	mg/kg	<1	1.2	58
Naphthalene	mg/kg	0.02	2.3	190
Acenaphthylene	mg/kg	0.03	210	83000
Acenaphthene	mg/kg	0.11	170	84000
Fluorene	mg/kg	0.14	170	63000
Phenanthrene	mg/kg	2.50	95	22000
Anthracene	mg/kg	1.00	2400	520000
Fluoranthene	mg/kg	5.50	280	23000
Pyrene	mg/kg	4.50	620	54000
Benzo anthracene	mg/kg	3.10	7.2	170
Chrysene	mg/kg	2.70	15	350
Benzo b/k fluoranthene	mg/kg	4.4	2.6	44
Benzo pyrene	mg/kg	2.30	2.2	35
Indeno pyrene	mg/kg	1.10	27	500
Dibenzo anthracene	mg/kg	0.50	0.24-0.3	3.5
Benzo perylene	mg/kg	1.10	320-350	3900

Domestic -  
Commercial -

*General assessment criteria (GAC) domestic gardens with plant uptake included*  
*General assessment criteria (GAC) commercial situation*

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#### Comments

The GAC levels quoted are a maintained extract from LQM/CIEH report, (Generic assessment criteria S4ULs). The PAH contaminant suite recorded levels greater than the GAC levels quoted above for domestic gardens. The topsoil is compliant with commercial GAC limits.

Where contaminant levels are acceptable and assessed with BS 3882: 2015 the material classifies as a "Multipurpose Topsoil"

Notes: -

a) The total nitrogen concentration in low fertility topsoil is not critical. A concentration >0.15 can aid initial establishment of plants.

"NR" Not Required

---

File Ref

0018/0703/G

Date tested

12-21/09/2018

Signed

Date reported

24/09/2018

M Green / C Driver

# HUMBERSIDE MATERIALS LABORATORY LTD

Atherton Way, Brigg  
North Lincs, DN21 4DT  
Tel & Fax 01652 652753

## Particle Size Distribution

Page 1 of 1

Sample Ref A/50053

Client

Brianplant  
Grimsby

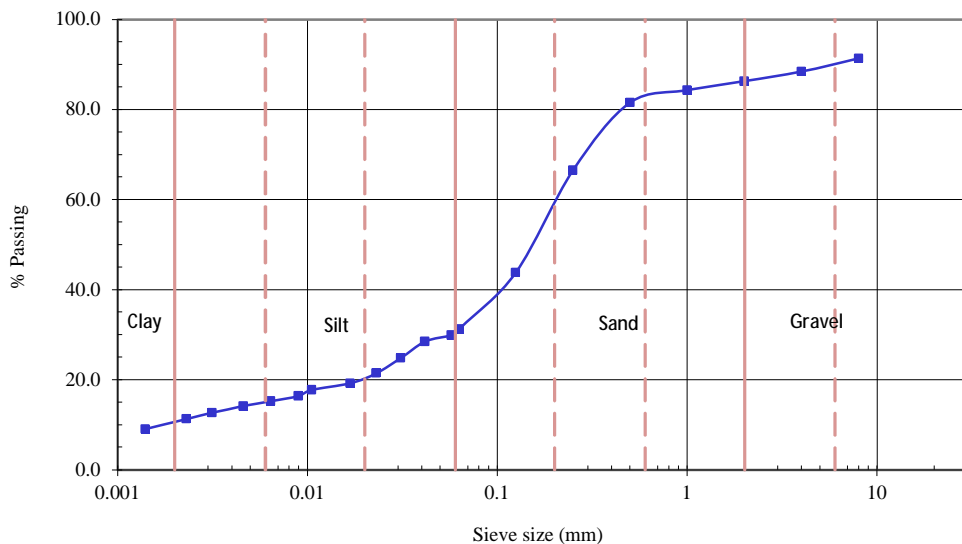
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Site	Manton Quarry		
Location	current production		
Material	Topsoil		
Date/Time sampled	04/09/2018	TP/BH	N/A
Client sample No		Depth	N/A
Sampled by	M. Driver	Sample Type	Bulk

---

### Determination of Particle size distribution - Sedimentation method

Test method BS 1377 Part 2 1990



	%
Clay	11
Silt	20
Sand	55
Gravel	14

---

Comments

---

File ref 0018/0703/G

Date tested 13/09/2018

Date reported 14/09/2018

Signed M.J. Green C. Driver  
Director

Certificate of sampling when submitted is retained by the Laboratory and available upon request  
Samples will normally be kept for 14 days from the date reported



## ANALYTICAL TEST REPORT

**Contract no:** 88704  
**Contract name:** 9a Darwin Street, Kirton Lindsey  
**Client reference:** 1166/4758  
**Clients name:** Humberside Materials Laboratory  
**Clients address:** Atherton Way  
Brigg  
North Lincolnshire  
DN20 8AR  
**Samples received:** 26 August 2020  
**Analysis started:** 26 August 2020  
**Analysis completed:** 03 September 2020  
**Report issued:** 03 September 2020

**Notes:** Opinions and interpretations expressed herein are outside the UKAS accreditation scope. Unless otherwise stated, Chemtech Environmental Ltd was not responsible for sampling. All testing carried out at Unit 6 Parkhead, Stanley, DH9 7YB, except for subcontracted testing. Methods, procedures and performance data are available on request. Results reported herein relate only to the material supplied to the laboratory. This report shall not be reproduced except in full, without prior written approval. Samples will be disposed of 6 weeks from initial receipt unless otherwise instructed.

**Key:** U UKAS accredited test  
M MCERTS & UKAS accredited test  
\$ Test carried out by an approved subcontractor  
I/S Insufficient sample to carry out test  
N/S Sample not suitable for testing  
NAD No Asbestos Detected

**Approved by:**

  
Dave Bowerbank  
Customer Support Hero

# Chemtech Environmental Limited

## SAMPLE INFORMATION

### MCERTS (Soils):

Soil descriptions are only intended to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions. MCERTS accreditation applies for sand, clay and loam/topsoil, or combinations of these whether these are derived from naturally occurring soils or from made ground, as long as these materials constitute the major part of the sample. Other materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

All results are reported on a dry basis. Samples dried at no more than 30°C in a drying cabinet.  
Analytical results are inclusive of stones.

Lab ref	Sample id	Depth (m)	Sample description	Material removed	% Removed	% Moisture
88704-1	S/56984	-	Sandy Clay with Gravel & Roots	-	-	12.2
88704-2	S/56985	-	Sandy Clay with Gravel & Roots	-	-	11.8
88704-3	S/56986	-	Sandy Clay with Gravel & Roots	-	-	12.9

# Chemtech Environmental Limited

## SOILS

Lab number			88704-1	88704-2	88704-3
Sample id			S/56984	S/56985	S/56986
Location			HP1	HP2	HP3
Depth (m)			-	-	-
Date sampled			24/08/2020	24/08/2020	24/08/2020
Test	Method	Units			
Arsenic (total)	CE054	mg/kg As	22	14	13
Beryllium (total)	CE054	mg/kg Be	1.3	1.5	0.5
Boron (water soluble)	CE063 <sup>M</sup>	mg/kg B	0.6	1.3	0.7
Cadmium (total)	CE054	mg/kg Cd	3.8	2.7	2.1
Chromium (total)	CE054	mg/kg Cr	114	67	54
Copper (total)	CE054	mg/kg Cu	315	67	25
Lead (total)	CE054	mg/kg Pb	47	48	41
Mercury (total)	CE054	mg/kg Hg	<0.5	<0.5	<0.5
Nickel (total)	CE054	mg/kg Ni	27	14	11
Selenium (total)	CE054	mg/kg Se	<0.3	<0.3	0.4
Vanadium (total)	CE054	mg/kg V	400	110	75
<b>PAH</b>					
Naphthalene	CE087 <sup>M</sup>	mg/kg	0.02	0.07	<0.02
Acenaphthylene	CE087 <sup>M</sup>	mg/kg	0.03	0.04	0.03
Acenaphthene	CE087 <sup>M</sup>	mg/kg	0.02	0.07	<0.02
Fluorene	CE087 <sup>U</sup>	mg/kg	0.03	0.06	<0.02
Phenanthrene	CE087 <sup>M</sup>	mg/kg	0.55	1.17	0.27
Anthracene	CE087 <sup>U</sup>	mg/kg	0.23	0.44	0.08
Fluoranthene	CE087 <sup>M</sup>	mg/kg	1.47	3.79	0.92
Pyrene	CE087 <sup>M</sup>	mg/kg	1.26	3.41	0.83
Benzo(a)anthracene	CE087 <sup>U</sup>	mg/kg	0.91	2.21	0.62
Chrysene	CE087 <sup>M</sup>	mg/kg	0.96	2.30	0.68
Benzo(b)fluoranthene	CE087 <sup>M</sup>	mg/kg	1.10	2.59	0.84
Benzo(k)fluoranthene	CE087 <sup>M</sup>	mg/kg	0.49	1.12	0.36
Benzo(a)pyrene	CE087 <sup>U</sup>	mg/kg	0.86	2.13	0.60
Indeno(123cd)pyrene	CE087 <sup>M</sup>	mg/kg	0.65	1.65	0.53
Dibenz(ah)anthracene	CE087 <sup>M</sup>	mg/kg	0.14	0.32	0.10
Benzo(ghi)perylene	CE087 <sup>M</sup>	mg/kg	0.54	1.28	0.43
PAH (total of USEPA 16)	CE087	mg/kg	9.26	22.7	6.28
<b>Subcontracted analysis</b>					
Asbestos (qualitative)	\$	-	NAD	NAD	NAD

# Chemtech Environmental Limited

## SOLIDS

<b>Lab number</b>			88704
<b>Sample id</b>			S/56988
<b>Location</b>			HP1 Cap Layer
<b>Date sampled</b>			24/08/2020
<b>Test</b>	<b>Method</b>	<b>Units</b>	
Arsenic (total)	CE054	mg/kg As	6.1
Beryllium (total)	CE054	mg/kg Be	1.9
Boron (water soluble)	CE063	mg/kg B	0.5
Cadmium (total)	CE054	mg/kg Cd	2.5
Chromium (total)	CE054	mg/kg Cr	50
Copper (total)	CE054	mg/kg Cu	21
Lead (total)	CE054	mg/kg Pb	19
Mercury (total)	CE054	mg/kg Hg	<0.5
Nickel (total)	CE054	mg/kg Ni	25
Selenium (total)	CE054	mg/kg Se	<0.3
Vanadium (total)	CE054	mg/kg V	42

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## METHOD DETAILS

METHOD	SOILS	METHOD SUMMARY	SAMPLE	STATUS	LOD	UNITS
CE054	Arsenic (total)	Aqua regia digest, ICP-OES	Dry		1	mg/kg As
CE054	Beryllium (total)	Aqua regia digest, ICP-OES	Dry		1	mg/kg Be
CE063	Boron (water soluble)	Hot water extract, ICP-OES	Dry	M	0.5	mg/kg B
CE054	Cadmium (total)	Aqua regia digest, ICP-OES	Dry		0.2	mg/kg Cd
CE054	Chromium (total)	Aqua regia digest, ICP-OES	Dry		1	mg/kg Cr
CE054	Copper (total)	Aqua regia digest, ICP-OES	Dry		1	mg/kg Cu
CE054	Lead (total)	Aqua regia digest, ICP-OES	Dry		1	mg/kg Pb
CE054	Mercury (total)	Aqua regia digest, ICP-OES	Dry		0.5	mg/kg Hg
CE054	Nickel (total)	Aqua regia digest, ICP-OES	Dry		1	mg/kg Ni
CE054	Selenium (total)	Aqua regia digest, ICP-OES	Dry		0.3	mg/kg Se
CE054	Vanadium (total)	Aqua regia digest, ICP-OES	Dry		1	mg/kg V
CE087	Naphthalene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Acenaphthylene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Acenaphthene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Fluorene	Solvent extraction, GC-MS	As received	U	0.02	mg/kg
CE087	Phenanthrene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Anthracene	Solvent extraction, GC-MS	As received	U	0.02	mg/kg
CE087	Fluoranthene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Pyrene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Benzo(a)anthracene	Solvent extraction, GC-MS	As received	U	0.02	mg/kg
CE087	Chrysene	Solvent extraction, GC-MS	As received	M	0.03	mg/kg
CE087	Benzo(b)fluoranthene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Benzo(k)fluoranthene	Solvent extraction, GC-MS	As received	M	0.03	mg/kg
CE087	Benzo(a)pyrene	Solvent extraction, GC-MS	As received	U	0.02	mg/kg
CE087	Indeno(123cd)pyrene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Dibenz(ah)anthracene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Benzo(ghi)perylene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	PAH (total of USEPA 16)	Solvent extraction, GC-MS	As received		0.34	mg/kg
\$	Asbestos (qualitative)	HSG 248, Microscopy	Dry	U	-	-

# Chemtech Environmental Limited

## METHOD DETAILS

METHOD	SOLIDS	METHOD SUMMARY	SAMPLE	STATUS	LOD	UNITS
CE054	Arsenic (total)	Aqua regia digest, ICP-OES	Dry		1	mg/kg As
CE054	Beryllium (total)	Aqua regia digest, ICP-OES	Dry		1	mg/kg Be
CE063	Boron (water soluble)	Hot water extract, ICP-OES	Dry		0.5	mg/kg B
CE054	Cadmium (total)	Aqua regia digest, ICP-OES	Dry		0.2	mg/kg Cd
CE054	Chromium (total)	Aqua regia digest, ICP-OES	Dry		1	mg/kg Cr
CE054	Copper (total)	Aqua regia digest, ICP-OES	Dry		1	mg/kg Cu
CE054	Lead (total)	Aqua regia digest, ICP-OES	Dry		1	mg/kg Pb
CE054	Mercury (total)	Aqua regia digest, ICP-OES	Dry		0.5	mg/kg Hg
CE054	Nickel (total)	Aqua regia digest, ICP-OES	Dry		1	mg/kg Ni
CE054	Selenium (total)	Aqua regia digest, ICP-OES	Dry		0.3	mg/kg Se
CE054	Vanadium (total)	Aqua regia digest, ICP-OES	Dry		1	mg/kg V

# Chemtech Environmental Limited

## DEVIATING SAMPLE INFORMATION

### Comments

Sample deviation is determined in accordance with the UKAS note "Guidance on Deviating Samples" and based on reference standards and laboratory trials.

For samples identified as deviating, test result(s) may be compromised and may not be representative of the sample at the time of sampling.

Chemtech Environmental Ltd cannot be held responsible for the integrity of sample(s) received if Chemtech Environmental Ltd did not undertake the sampling. Such samples may be deviating.

### Key

N	No (not deviating sample)
Y	Yes (deviating sample)
NSD	Sampling date not provided
NST	Sampling time not provided (waters only)
EHT	Sample exceeded holding time(s)
IC	Sample not received in appropriate containers
HP	Headspace present in sample container
NCF	Sample not chemically fixed (where appropriate)
OR	Other (specify)

Lab ref	Sample id	Depth (m)	Deviating	Tests (Reason for deviation)
88704-1	S/56984	-	N	
88704-2	S/56985	-	N	
88704-3	S/56986	-	N	

**Appendix C**  
**Consignment notes**



Hand 7/10/19

Invoice

BRIANPLANT (HUMBERSIDE) LIMITED  
Estate Road No. 2, South Humberside Industrial Estate, Grimsby, North East Lincolnshire. DN31 2TG.  
Tel: 01472 341499 Fax: 01472 268406 Email: info@brianplant.com www.brianplant.com

C & K Builders Ltd  
Manor House  
Manor Farm  
Appleby  
SCUNTHORPE  
DN15 0AW

Invoice No	0000203425
Invoice/Tax Date	30/09/2019
Order No	
Account Ref	C&KBUILD

Site Address: Darwin Street, Kirton Lindsey

Quantity	Details	Unit Price	Net Amount
39.39	To supply and deliver 75mm Clean Limestone 26/09/19, 235256/58		
78.67	To supply and deliver Topsoil 26/09/19, 235259/61/64/66		
62.60	To supply and deliver Topsoil 26/09/19, 235257/60/62/65		

AGGREGATE LEVY - PRICES ARE INCLUSIVE AT THE STANDARD RATE OF LEVY WHERE APPLICABLE AS ADMINISTERED BY H.M. CUSTOMS & EXCISE

Total Net Amount	
Total Tax Amount	
Invoice Total	

ALL PLANT AND VEHICLES ARE HIRED UNDER C.P.A. CONDITIONS. COPIES AVAILABLE ON REQUEST. TERMS: NETT MONTHLY. E & O.E.

All queries to be received in writing within 7 days.  
VAT Number GB 364 7620 39  
Bank Details Sort Code:20-35-27 Account No: 70201995



BRIANPLANT (HUMBERSIDE) LIMITED  
MANTON QUARRY  
KIRKTON IN LINDSEY, GAINSBOROUGH, LINCOLNSHIRE, DN21 4JT.  
TEL. SALES/ORDERS: 01472 341499 FAX: 01472 268406  
E-MAIL: info@brianplant.com  
WEBSITE: www.brianplant.com

No: 235256

1. White: Customer Copy
2. Pink: Haulier Copy
3. Yellow: Office Copy
4. Green: Quarry Copy

CUSTOMER: C & K Builders		DELIVERY ADDRESS: Darwin Street Kilton Lindsey	
ORDER No.:			
HAULIER: Brianplant			
REG No.: FX17 KBN		DATE: 26/9/19	
PRODUCT 75mm Clean L/Stone		WEIGHT IN TONNES GROSS : 21.940	
CASH SALE INVOICE	TIME ON SITE	TARE :	12.300
GOODS £ .		NETT :	19.640
V.A.T. £ .	TIME OFF SITE		
TOTAL £ .	SPECIAL INSTRUCTIONS [REDACTED]	GOODS RECEIVED IN GOOD CONDITION	
CHEQUE/CASH RECEIVED SIGNED		FOR AND ON BEHALF OF CUSTOMER	



BRIANPLANT (HUMBERSIDE) LIMITED  
MANTON QUARRY  
KIRKTON IN LINDSEY, GAINSBOROUGH, LINCOLNSHIRE, DN21 4JT.  
TEL. SALES/ORDERS: 01472 341499 FAX: 01472 268406  
E-MAIL: info@brianplant.com  
WEBSITE: www.brianplant.com

No: 235258

1. White: Customer Copy
2. Pink: Haulier Copy
3. Yellow: Office Copy
4. Green: Quarry Copy

CUSTOMER: C & K Builders		DELIVERY ADDRESS: Darwin Street, Kilton Lindsey	
ORDER No.:			
HAULIER: Brianplant			
REG No.: FX17 KBN		DATE: 26/9/19	
PRODUCT 75mm Clean L/Stone		WEIGHT IN TONNES GROSS : 32.050	
CASH SALE INVOICE	TIME ON SITE	TARE :	12.300
GOODS £ .		NETT :	19.750
V.A.T. £ .	TIME OFF SITE		
TOTAL £ .	SPECIAL INSTRUCTIONS [REDACTED]	GOODS RECEIVED IN GOOD CONDITION	
CHEQUE/CASH RECEIVED SIGNED		FOR AND ON BEHALF OF CUSTOMER	

VAT REGN. No. GB 408 5567 37

 TRAVIS PERKINS TRADING CO. LTD  
 0440 GRIMSBY TP  
 ROWLANDSON STREET  
 RIBY SQUARE  
 GRIMSBY, DN31 3LG  
 Tel: 01472 345471

**Customer details:**  
 C & K BUILDERS LTD  
 MANOR HOUSE MANOR FARM  
 SCHOOL LANE APPLBY  
 SCUNTHORPE  
 DN15 0AW

**Deliver To:**  
 7 DARWIN STREET  
 KIRTON LINDSEY  
 GAINSBOROUGH  
 DN21 4BZ

 02/09/19 12:16  
 SALES PERSON : MCWAL  
 PAYMENT METHOD : CR/DB  
 YOUR ORDER No. :  
 CONTACT : C & K BUILDERS LTD  
 TEL NO : 0  
 DATE REQD : 03/09/19

Line #	Qty	Product Code	Item Description	Price Per	Amount	VAT (%)	VAT Amount	Weight
2	1.00 BAG	938155	BUILDING SAND BULK BAG			20.00		825.00kgs
3	3.00 BAG	938169	BALLAST BULK BAG			20.00		2475.00kgs
4	20.00 BAG	250294	BLUE CIRCLE MASTERCRETE CEMENT INPLASTIC BAGS 25KG 32.5R			20.00		500.00kgs
6	215.00 EACH	700064	SOLID DENSE BLOCK 100MM 7.3N			20.00		4082.40kgs
* 7	1.00 EACH	954952	WREKIN WOVEN GEOTEXTILE FASTRACK 18004.5MX100M GTSG.			20.00		36.00kgs

 GOODS: £  
 VAT:  
 TOTAL DUE: £

**TOTAL ORDER WEIGHT 7918.400 kgs (LINES 2,3,4,6,7)**

The indicated weights on this document are approximate and are intended to assist in manual handling considerations. Building aggregate material weights allow for a +/- 5% tolerance.

If you are a tradesman apply at the counter or online for a Trade Cash Card for great trade only prices

 THIS DOCUMENT CONFERS NO RIGHTS  
 TO REMOVE GOODS FROM THE BRANCH

PRINTED AT 14:57 ON 02/09/19

TRANSACTION APPROVED

Total : GBP596.98

Keyed Not Present Mastercard Debit

Card No : \*\*\*\*\*

Merchant No: \*\*\*44251

Auth Code : 325100

Not Verified

Please Retain For Your Records.

<b>Sign:</b>	<b>Print:</b>	<b>Date:</b>	<b>Time:</b>
--------------	---------------	--------------	--------------

 Our Sales Terms apply, available online at <https://www.travisperkins.co.uk/conditionsOfSale> and in branch on request. Your attention is in particular drawn to terms 4, 5 and 9.

If you are a consumer we recognise that you may have additional rights and we confirm your statutory rights are not affected by these terms. For example, you may have cancellation rights which are set out in clause 10.2 of our Sales terms, in which case, you may use the model cancellation form (available online or in branch on request), or in another written format.



ESTATE ROAD No.2,  
SOUTH HUMBERSIDE INDUSTRIAL ESTATE,  
GRIMSBY, N. E. LINCOLNSHIRE, DN31 2TG.  
TELEPHONE: (01472) 341499 (24 Hours)  
E-MAIL: info@brianplant.com / WEBSITE: www.brianplant.com  
WASTE CARRIER, BROKER, DEALER CBDU100071

No: **11760**

- 1. White: Customer Copy
- 2. Pink: Haulier Copy
- 3. Yellow: Office Copy

**CONVEYANCE NOTE**

CUSTOMER:	C & K Boulders	LOADED FROM:	SINGLETON BIRCH
HAULIER:	BRIANPLANT		
DATE:	23/10/19	DELIVERED TO:	DARWIN ST KIRTON LINDSEY
REG No.:	4464 OTS		
PRODUCT	50mm DOWN CHALK	WEIGHT IN TONNES	
		GROSS	: 31 .58
✓ IF HAULAGE ONLY:	TIME ON SITE	TARE	: 12 .48
	TIME OFF SITE	NETT	: 19 .10
CASH RECEIVED: £	COMMENTS:	GOODS RECEIVED IN GOOD CONDITION FOR AND ON BEHALF OF CUSTOMER:	
		SIGN:	[REDACTED]
		PRINT:	R. E. CHAPMAN

ALL RECYCLED MATERIALS HAVE BEEN PRODUCED IN COMPLIANCE WITH QUALITY PROTOCOL.



**BRIANPLANT (HUMBERSIDE) LIMITED**  
ESTATE ROAD No.2,  
SOUTH HUMBERSIDE INDUSTRIAL ESTATE,  
GRIMSBY, N. E. LINCOLNSHIRE, DN31 2TG.  
TELEPHONE: (01472) 341499 (24 Hours)  
E-MAIL: info@brianplant.com / WEBSITE: www.brianplant.com  
WASTE CARRIER, BROKER, DEALER CBDU100071

No: **11761**

- 1. White: Customer Copy
- 2. Pink: Haulier Copy
- 3. Yellow: Office Copy

**CONVEYANCE NOTE**

CUSTOMER:	C & K Boulders	LOADED FROM:	SINGLETON BIRCH
HAULIER:	BRIANPLANT		
DATE:	23/10/19	DELIVERED TO:	DARWIN ST KIRTON LINDSEY
REG No.:	4464 OTS		
PRODUCT	50mm DOWN CHALK	WEIGHT IN TONNES	
		GROSS	: 30 .60
✓ IF HAULAGE ONLY:	TIME ON SITE	TARE	: 12 .46
	TIME OFF SITE	NETT	: 18 .14
CASH RECEIVED: £	COMMENTS:	GOODS RECEIVED IN GOOD CONDITION FOR AND ON BEHALF OF CUSTOMER:	
		SIGN:	[REDACTED]
		PRINT:	R. E. CHAPMAN

ALL RECYCLED MATERIALS HAVE BEEN PRODUCED IN COMPLIANCE WITH QUALITY PROTOCOL.



**Transfer / Advice Note / Sales Invoice**

**Ellgia Scunthorpe**

Pitt Bottom  
 Winterton Road  
 Scunthorpe  
 North Lincolnshire  
 DN15 0DH  
 01724 277 299  
 VAT Reg Number: GB526106081

**Ticket No:** 1002721

<b>Section A - Current Holder of the Waste</b>		<b>Registration No.:</b> YX16NSY	<b>Date:</b> 24/10/2019
<b>Customer Invoice Address:</b>	CASH	<b>Waste Collection Address:</b>	
Cash Sales Scunthorpe Pitt Bottom Winterton Road Scunthorpe DN150DH		CK Builder 9A Darwin Street Kirton Lindsey Gainsborough DN21 4BZ	
<b>Section B - Description of Waste</b>		<b>Contact Name:</b> Ken	
<b>Service Type:</b> Collection		<b>Telephone No.:</b> 7843181474	
<b>Container Type:</b> SK08YDDOOR		<b>Order No.:</b>	
<b>Quantity:</b> 1		<b>Instructions:</b>	
<b>EWC Code:</b> 17 05 03*		Time slots: 08:00 - 08:00	
<b>Material Description:</b> CONTAMINATED SOIL			
<b>SIC (2007):</b> 98100			
<b>Weight:</b> 6,960.00			
<b>Has the waste been treated YES / NO</b>			
<b>Section C - Person Collecting the Waste</b>		<b>Section D - Waste Disposed at</b>	
Ellgia Scunthorpe Pitt Bottom Winterton Road Scunthorpe North Lincolnshire DN15 0DH Waste Carriers Licence No CBDU181846		F C C Winterton Landfill Intergrated Waste Management Winterton Winterton Landfill Coleby Road West Halton DN15 9AP	
<b>Declaration:</b> I, the waste producer/holder/transferee, confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011		<b>Net Amount:</b>	
		<b>VAT:</b>	
		<b>Total Due:</b>	
		<b>Payment Type:</b>	CASH

Contaminated materials not to be loaded into the skip/container, unless previously arranged:					
Hazardous	Fridges	Monitors	Oil	Plasterboard	Fluorescent Tubes
Food Waste	Freezers	TVs/VDUs	Paint	Asbestos	Fire Extinguishers
Gas Cylinders	Batteries	Tyres	Liquids	Tarmac	

- Rubbish must not be burnt in or near the container and must not be loaded above the sides of the container.
- The company reserve the right to make an additional charge for skips with: unauthorised waste, mixed cross category waste, overloaded or incorrectly loaded without prenotification.
- The customer undertakes to lawfully obtain every necessary authority or licence from the local authority which may be required in connection with the use of the container supplied under this contract unless prenotification has been obtained on order.
- The customer shall be responsible for the container - any damage shall be the responsibility of the customer and all associated costs shall be charged accordingly. The customer shall also ensure the safe loading of material into the container.
- If the customer directs a vehicle delivering or collecting the container to leave the public highway, the customer shall indemnify us in respect of any loss, costs, damages or expenses we may thereby sustain whether as a result of personal injury or as a result of damage to the vehicle itself or to the property of the customer or third parties.
- The customer undertakes to direct at their sole discretion the driver where to deposit the container, the said driver being for the purpose of such deposit the agent of the customer.
- The container is consigned for a maximum 10 days period unless previously agreed in writing by the company and thereafter will be collected at the sole discretion of the company.

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by regulation 12 of the waste (England and Wales) regulations 2011.

I confirm that I have received, read, understood and agree to be fully bound by the specific terms and conditions above and the terms and conditions of supplier

Driver Signature

Print Name Mchael Chafer

Customer Signature

Print Name

# The Hazardous Waste Regulations 2005: Consignment Note

PUR Ref: 1002721

## PART A Notification Details

1 Consignment Note Number: CASHSA/07062

2 The waste described below is to be removed from:  
CK Builder, 9A Darwin Street, Kirton Lindsey, Gainsborough, DN21 4BZ

3 The waste will be taken to: F C C Winterton Landfill, Integrated Waste Management Winterton, Winterton Landfill, Coleby Road, West Halton, DN15 9AP

4 The waste producer was (if different from 2):

## PART B Description of the Waste

1 Process giving rise to the waste(s) was: Construction

2 SIC (2007) for the process giving rise to the waste: 98100

3 WASTE DETAILS (where more than one waste type is collection the information must be completed for each EWC identified)

Description of waste	List of Wastes (EWC Code) (6 Digits)	Quantity	The chemical/biological components in the waste and their concentrations are:		Physical form (gas, liquid, solid, powder, sludge or)	Hazard code(s)	Container Type, Number and Size
			Component	Concentration % or mg/kg			
Cont Soil	1 7 0 5 0 3	7.00	ASBESTOS	5.00%	Solid	HP11 ,HP5 ,HP7	SK06YDDOX

the information given below is to be completed for each waste type

EWC Code	UN Identification number(s)	Proper shipping name(s)	Un Class(es)	Packing group(s)	Special handling requirements
1 7 0 5 0 3					

## PART C Carrier's Certificate

I certify that I today collected the consignment and that the details in A5, A6 and B3 are correct and I have been advised of any specific handling requirements

1 Name: Elgia Scunthorpe

2 Customer Details: Pitt Bottom, Winterton Road, Scunthorpe, North Lincolnshire, DN15 0DH

3 Carrier Registration Number: LB02151826

4 Vehicle Registration: YX16NSY

5 Signature: 

6 Date: 24/10/19 at 08:05 Hours

## PART D Consignor's certificate

I certify that the information in A, B and C have been completed and is correct, that the carrier is registered or exempt and was advised of the appropriate precautionary measures. All of the waste is packaged and labelled correctly and the carrier has been advised of any specific handling requirements.

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011.

1 Name: Cash Sales Scunthorpe

2 Customer Details: , Pitt Bottom, Winterton Road, Scunthorpe, DN150DH

3 Signature: 

4 Date: 24/10/19 at 08:05 Hours

## PART E Consignee's certificate

Individual EWC code(s) received	Quantity of each EWC code received (kg)	EWC code accepted / rejected	Waste management operation (R or D code)
<u>170503</u>	<u>6960</u>	<u>✓</u>	<u>D05</u>

1 I received this waste at the address given in A6 on: (Date):

2 Vehicle registration number: YX16NSY

3 Where waste is rejected please provide details:

I certify that waste permit/exempt waste operation number: BW17851H  
authorise(s) the management of the waste described in B at the address given in A3.

1 Name: S. DEMEYER  
on behalf of Customer:

2 Signature: 


3 Date: 24/10/19 at 9.00 Hours

**BW17851H**  
Integrated Waste Management  
Winterton Landfill  
Coleby Road, West Halton  
Winterton  
DN15 9AP

CONVEYANCE NOTE **21121**

# SANDSTOP QUARRIES LTD

P.O. BOX 11, STATION ROAD, COTTINGHAM, EAST YORKSHIRE, HU16 4LL  
 Tel: 01482 842171 Fax: 01482 845088

CUSTOMER <b>KEN MACABE 9A DARWIN SE.</b>		PLACE OF DELIVERY <b>DRAX GOLF COURSE</b>	
PLACE OF LOADING <b>KIRTON IN LINDSEY</b>		DATE <b>26 09 19</b>	VEHICLE No. <b>NX19NFG</b>
SIGNED FOR SANDSTOP QUARRIES LTD. <b>CARL</b>		TYPE OF INERT MATERIAL <b>NON HAZ SOIL</b>	AGGREGATE SUPPLIED
		CUSTOMER'S SIGNATURE - AGGREGATE INSPECTED AND APPROVED 	

VEHICLE WEIGHTS	TONNES			
GROSS WEIGHT	3	1	9	6
TARE WEIGHT	<del>1</del>	<del>3</del>	<del>0</del>	<del>0</del>
	1	9	6	4

SEE BELOW BEFORE SIGNING

All material removed from site is on the strict understanding, that you the client, have verified your material is inert, free from chemicals or other substances dangerous to public health, or likely to affect underground water, and will indemnify us the company if the material is not as described.

CONVEYANCE NOTE **21123**

# SANDSTOP QUARRIES LTD

P.O. BOX 11, STATION ROAD, COTTINGHAM, EAST YORKSHIRE, HU16 4LL  
 Tel: 01482 842171 Fax: 01482 845088

CUSTOMER <b>KEN MACABE 9A DARWIN SE</b>		PLACE OF DELIVERY <b>DRAX GOLF COURSE</b>	
PLACE OF LOADING <b>KIRTON IN LINDSEY</b>		DATE <b>26 09 19</b>	VEHICLE No. <b>NX19NFG</b>
SIGNED FOR SANDSTOP QUARRIES LTD. <b>CARL</b>		TYPE OF INERT MATERIAL <b>NON HAZ SOIL</b>	AGGREGATE SUPPLIED
		CUSTOMER'S SIGNATURE - AGGREGATE INSPECTED AND APPROVED 	

VEHICLE WEIGHTS	TONNES			
GROSS WEIGHT	3	1	8	4
TARE WEIGHT				
	1	9	5	4

SEE BELOW BEFORE SIGNING

All material removed from site is on the strict understanding, that you the client, have verified your material is inert, free from chemicals or other substances dangerous to public health, or likely to affect underground water, and will indemnify us the company if the material is not as described.

# Invoice

PAGE 1

# SANDSTOP QUARRIES LTD

Plant Hire • Transport • Site Excavations • Graded Stone • Tipping Facilities

STATION ROAD, COTTINGHAM, EAST YORKSHIRE, HU16 4LL

VAT Reg. No. 181 2695 95

Telephone (01482) 842171 (10 lines)  
Fax (01482) 845088  
Email ben@sandstopquarries.co.uk

AFTER HOURS: B. SMITH - 07879 526825

**Customer**C & K Builders Ltd  
Manor House  
Manor Farm  
Appleby  
Scunthorpe  
DN15 0AW**Site**

KIRTON IN LINDSEY

Invoice No. 1914

Invoice Date 30/09/2019

Order No.

Account Ref C&amp;KBULID

**TO CART AWAY SUB SPOIL AS PER (8 WHEELERS)**

Quantity	DATE	TICKET NO'S.	LOADS	Net Amount
	26/09	21121	19.64	
	26/09	21123	19.54	

39.18 tonnes NON HAZ MATERIAL @ Net Amount 

VAT @ 20%

**PAYMENT TERMS:**

STANDARD TERMS

Managing Director: P. G. Greenwood  
Director: B. Smith  
Director: D. Griffiths  
Company Secretary: Lee Evans  
Registered in England No. 05569860

Invoice Total

Quotations for the removal of inert material are based on the strict understanding that, you the client, have verified your material is free from chemicals or other substances that would pose a risk to underground water, air, soil, plants or animals.



BRIANPLANT (HUMBERSIDE) LIMITED  
MANTON QUARRY  
KIRKTON IN LINDSEY, GAINSBOROUGH, LINCOLNSHIRE, DN21 4JT.  
TEL. SALES/ORDERS: 01472 341499 FAX:01472 268406  
E-MAIL: info@brianplant.com  
WEBSITE: www.brianplant.com

No: 235259  
1. White: Customer Copy  
2. Pink: Haulier Copy  
3. Yellow: Office Copy  
4. Green: Quarry Copy

CUSTOMER: C & k Builders		DELIVERY ADDRESS:	
ORDER No.:		Darwin Street, Kirton Lindsey	
HAULIER: Brianplant		DATE: 26/9/19	
REG No.: FX17 KBN		WEIGHT IN TONNES	
PRODUCT Once screened Topsoil		GROSS : 32.000	
CASH SALE INVOICE	TIME ON SITE	TARE : 12.300	
GOODS £ .	TIME OFF SITE	NETT : 19.700	
V.A.T. £ .		GOODS RECEIVED IN GOOD CONDITION	
TOTAL £ .	SPECIAL INSTRUCTIONS	[REDACTED]	
CHEQUE/CASH RECEIVED	SIGNED	FOR AND ON BEHALF OF CUSTOMER	



BRIANPLANT (HUMBERSIDE) LIMITED  
MANTON QUARRY  
KIRKTON IN LINDSEY, GAINSBOROUGH, LINCOLNSHIRE, DN21 4JT.  
TEL. SALES/ORDERS: 01472 341499 FAX:01472 268406  
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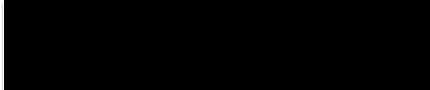
CUSTOMER: C & k Builders		DELIVERY ADDRESS:	
ORDER No.:		Darwin Street, Kirton Lindsey	
HAULIER: Brianplant		DATE: 29/6/19	
REG No.: FX17 KBN		WEIGHT IN TONNES	
PRODUCT Once screened Topsoil		GROSS : 32.080	
CASH SALE INVOICE	TIME ON SITE	TARE : 12.300	
GOODS £ .	TIME OFF SITE	NETT : 19.750	
V.A.T. £ .		GOODS RECEIVED IN GOOD CONDITION	
TOTAL £ .	SPECIAL INSTRUCTIONS	[REDACTED]	
CHEQUE/CASH RECEIVED	SIGNED	FOR AND ON BEHALF OF CUSTOMER	



**BRIANPLANT (HUMBERSIDE) LIMITED**  
**MANTON QUARRY**  
 KIRKTON IN LINDSEY, GAINSBOROUGH, LINCOLNSHIRE, DN21 4JT.  
 TEL. SALES/ORDERS: 01472 341499 FAX:01472 268406  
 E-MAIL: info@brianplant.com  
 WEBSITE: www.brianplant.com

No: **235264**

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CUSTOMER:: <b>C &amp; K Builders</b>		DELIVERY ADDRESS:	
ORDER No.:		<b>Darwin Street, Kirkton Lindsey</b>	
HAULIER: <b>Brianplant</b>			
REG No.: <b>FX17 KBN</b>		DATE: <b>28/9/19</b>	
PRODUCT <b>Once Screened Topsoil</b>		WEIGHT IN TONNES	
CASH SALE INVOICE		GROSS : <b>31.900</b>	
GOODS £ .	TIME ON SITE	TARE : <b>12.300</b>	
V.A.T. £ .	TIME OFF SITE	NETT : <b>19.600</b>	
TOTAL £ .	SPECIAL INSTRUCTIONS	GOODS RECEIVED IN GOOD CONDITION	
CHEQUE/CASH RECEIVED			
SIGNED			
		FOR AND ON BEHALF OF CUSTOMER	



**BRIANPLANT (HUMBERSIDE) LIMITED**  
**MANTON QUARRY**  
 KIRKTON IN LINDSEY, GAINSBOROUGH, LINCOLNSHIRE, DN21 4JT.  
 TEL. SALES/ORDERS: 01472 341499 FAX:01472 268406  
 E-MAIL: info@brianplant.com  
 WEBSITE: www.brianplant.com

No: **235257**

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CUSTOMER:: <b>C&amp;K BUILDERS</b>		DELIVERY ADDRESS:	
ORDER No.:		<b>DAWIN ST. KIRKTON LINDSEY.</b>	
HAULIER: <b>BP GRAB</b>			
REG No.: <b>YX16CCA.</b>		DATE: <b>26-9-19.</b>	
PRODUCT <b>ONCE SCREENED TOP SOIL</b>		WEIGHT IN TONNES	
CASH SALE INVOICE		GROSS : <b>31.840</b>	
GOODS £ .	TIME ON SITE	TARE : <b>16.380</b>	
V.A.T. £ .	TIME OFF SITE	NETT : <b>15.460</b>	
TOTAL £ .	SPECIAL INSTRUCTIONS	GOODS RECEIVED IN GOOD CONDITION	
CHEQUE/CASH RECEIVED			
SIGNED			
		FOR AND ON BEHALF OF CUSTOMER	



BRIANPLANT (HUMBERSIDE) LIMITED  
MANTON QUARRY  
KIRKTON IN LINDSEY, GAINSBOROUGH, LINCOLNSHIRE, DN21 4JT.  
TEL. SALES/ORDERS: 01472 341499 FAX:01472 268406  
E-MAIL: info@brianplant.com  
WEBSITE: www.brianplant.com

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CUSTOMER:: <i>C &amp; K BUILDERS</i>		DELIVERY ADDRESS: <i>DARWIN ST KILTON LINDSEY</i>	
ORDER No.:			
HAULIER: <i>BP GRAB</i>			
REG No.: <i>Y16CCA</i>		DATE: <i>20-9-19</i>	
PRODUCT <i>ONCE SCREEN TOPSOIL</i>		WEIGHT IN TONNES GROSS : <i>31.840</i>	
CASH SALE INVOICE	TIME ON SITE	TARE : <i>16.380</i>	
GOODS £ .			
V.A.T. £ .	TIME OFF SITE	NETT : <i>15.460</i>	
TOTAL £ .	SPECIAL INSTRUCTIONS	GOODS RECEIVED IN GOOD CONDITION 	
CHEQUE/CASH RECEIVED		FOR AND ON BEHALF OF CUSTOMER	
SIGNED			



BRIANPLANT (HUMBERSIDE) LIMITED  
MANTON QUARRY  
KIRKTON IN LINDSEY, GAINSBOROUGH, LINCOLNSHIRE, DN21 4JT.  
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E-MAIL: info@brianplant.com  
WEBSITE: www.brianplant.com

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CUSTOMER:: <i>C &amp; K BUILDERS</i>		DELIVERY ADDRESS: <i>KILTON LINDSEY</i>	
ORDER No.:			
HAULIER: <i>BP GRAB</i>			
REG No.: <i>Y16 CCA</i>		DATE: <i>20-9-19</i>	
PRODUCT <i>ONCE SCREENED TOPSOIL</i>		WEIGHT IN TONNES GROSS : <i>32.060</i>	
CASH SALE INVOICE	TIME ON SITE	TARE : <i>16.380</i>	
GOODS £ .			
V.A.T. £ .	TIME OFF SITE	NETT : <i>15.680</i>	
TOTAL £ .	SPECIAL INSTRUCTIONS	GOODS RECEIVED IN GOOD CONDITION 	
CHEQUE/CASH RECEIVED		FOR AND ON BEHALF OF CUSTOMER	
SIGNED			



**BRIANPLANT (HUMBERSIDE) LIMITED**  
**MANTON QUARRY**  
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 WEBSITE: www.brianplant.com

No: **235265**

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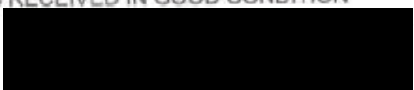
CUSTOMER:: <b>C &amp; K. Bouders</b>		DELIVERY ADDRESS: <b>Darwin St. Kirkton Lindsey.</b>	
ORDER No.:			
HAULIER: <b>BP SRAB</b>			
REG No.: <b>1416 CCA</b>		DATE: <b>20-9-19.</b>	
PRODUCT <b>ONCE SCREENED TOPSOIL</b>		WEIGHT IN TONNES GROSS : <b>32.380</b>	
CASH SALE INVOICE	TIME ON SITE	TARE : <b>16.380.</b>	
GOODS £ .		NETT : <b>16.000</b>	
V.A.T. £ .	TIME OFF SITE		
TOTAL £ .	SPECIAL INSTRUCTIONS	GOODS RECEIVED IN GOOD CONDITION 	
CHEQUE/CASH RECEIVED		FOR AND ON BEHALF OF CUSTOMER	
SIGNED			



**BRIANPLANT (HUMBERSIDE) LIMITED**  
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 KIRKTON IN LINDSEY, GAINSBOROUGH, LINCOLNSHIRE, DN21 4JT.  
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 WEBSITE: www.brianplant.com

No: **235266**

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CUSTOMER:: <b>C &amp; K Builders</b>		DELIVERY ADDRESS: <b>Darwin Street, Kirkton Lindsey</b>	
ORDER No.:			
HAULIER: <b>Brianplant</b>			
REG No.: <b>FX17 KBN</b>		DATE: <b>20/9/19</b>	
PRODUCT <b>Once Screened Topsoil</b>		WEIGHT IN TONNES GROSS : <b>31.920</b>	
CASH SALE INVOICE	TIME ON SITE	TARE : <b>12.300</b>	
GOODS £ .		NETT : <b>19.620</b>	
V.A.T. £ .	TIME OFF SITE		
TOTAL £ .	SPECIAL INSTRUCTIONS	GOODS RECEIVED IN GOOD CONDITION 	
CHEQUE/CASH RECEIVED		FOR AND ON BEHALF OF CUSTOMER	
SIGNED			



# LABORATORY REPORT



4043

**Contract Number: PSL19/6200**

Report Date: 04 November 2019

Client's Reference:

Client Name: Overhall Civil Engineering  
16 Carr Lane  
Thealby  
Scunthorpe  
North Lincolnshire  
DN15 9AE

**For the attention of: Lee Markham**

Contract Title: Overhall Aggregate

Date Received: 15/10/2019

Date Commenced: 15/10/2019

Date Completed: 31/10/2019

**Notes: Opinions and Interpretations are outside the UKAS Accreditation**

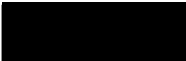
A copy of the Laboratory Schedule of accredited tests as issued by UKAS is attached to this report. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced other than in full, without the prior written approval of the laboratory.

Checked and Approved Signatories:

R Gunson  
(Director)

A Watkins  
(Director)

R Berriman  
(Quality Manager)

  
S Royle  
(Laboratory Manager)

S Eyre  
(Senior Technician)

L Knight  
(Senior Technician)

5 - 7 Hexthorpe Road, Hexthorpe,  
Doncaster DN4 0AR  
tel: +44 (0)844 815 6641  
fax: +44 (0)844 815 6642  
e-mail: rgunson@prosoils.co.uk  
awatkins@prosoils.co.uk

Page 1 of



# PARTICLE SIZE DISTRIBUTION TEST

BS EN 933-1, 1997

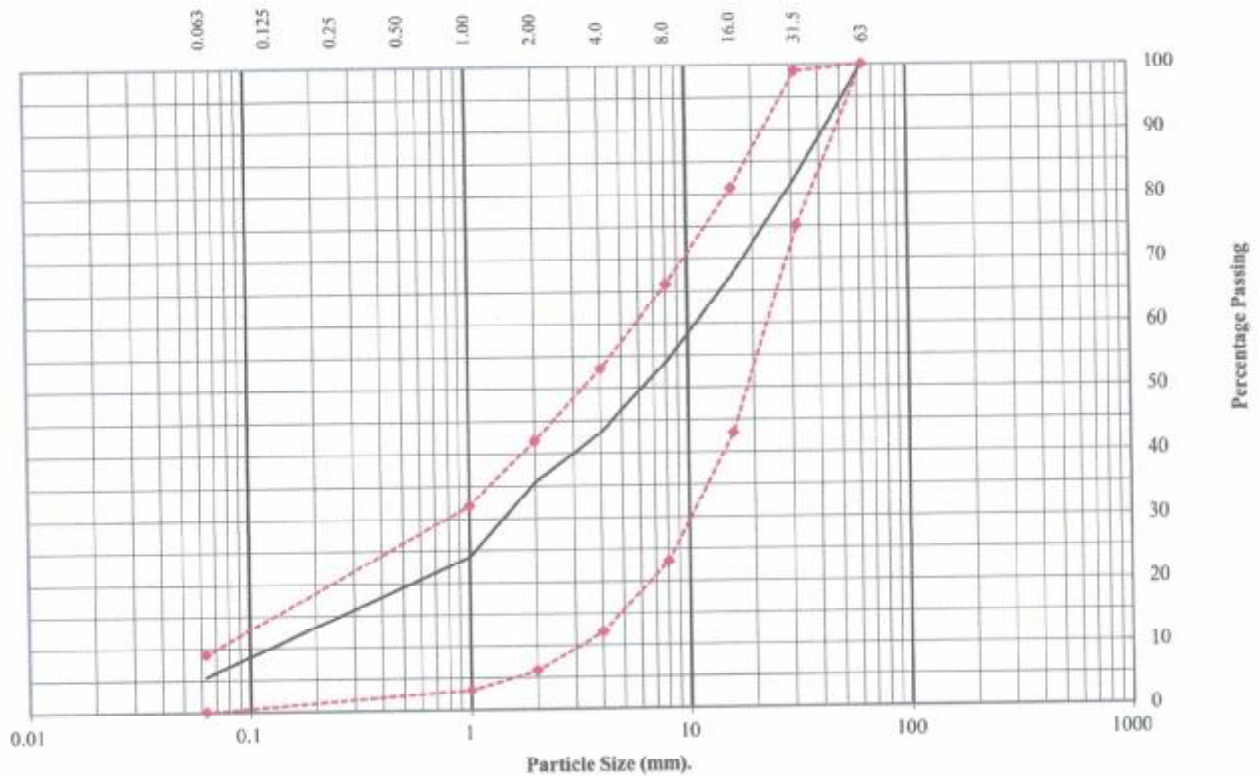
By Washing and Sieving

Sample Number:

Recycled B/F Slag

Classification Type:

Type 1



BS Test Sieve mm	Percentage Passing %	Vol.1 Spec. for Highways Works Table 8/5 Requirement for Type 1 Subbase	
		Lower	Upper
63	100	100	100
31.5	83	75	99
16	67	43	81
8	54	23	66
4	43	12	53
2	36	6	42
1	24	3	32
0.5	16		
0.25	10		
0.125	7		
0.063	5	0	9

**Remarks:**



Overhall Aggregate

Contract No:
PSL19/6200
Client Ref No:

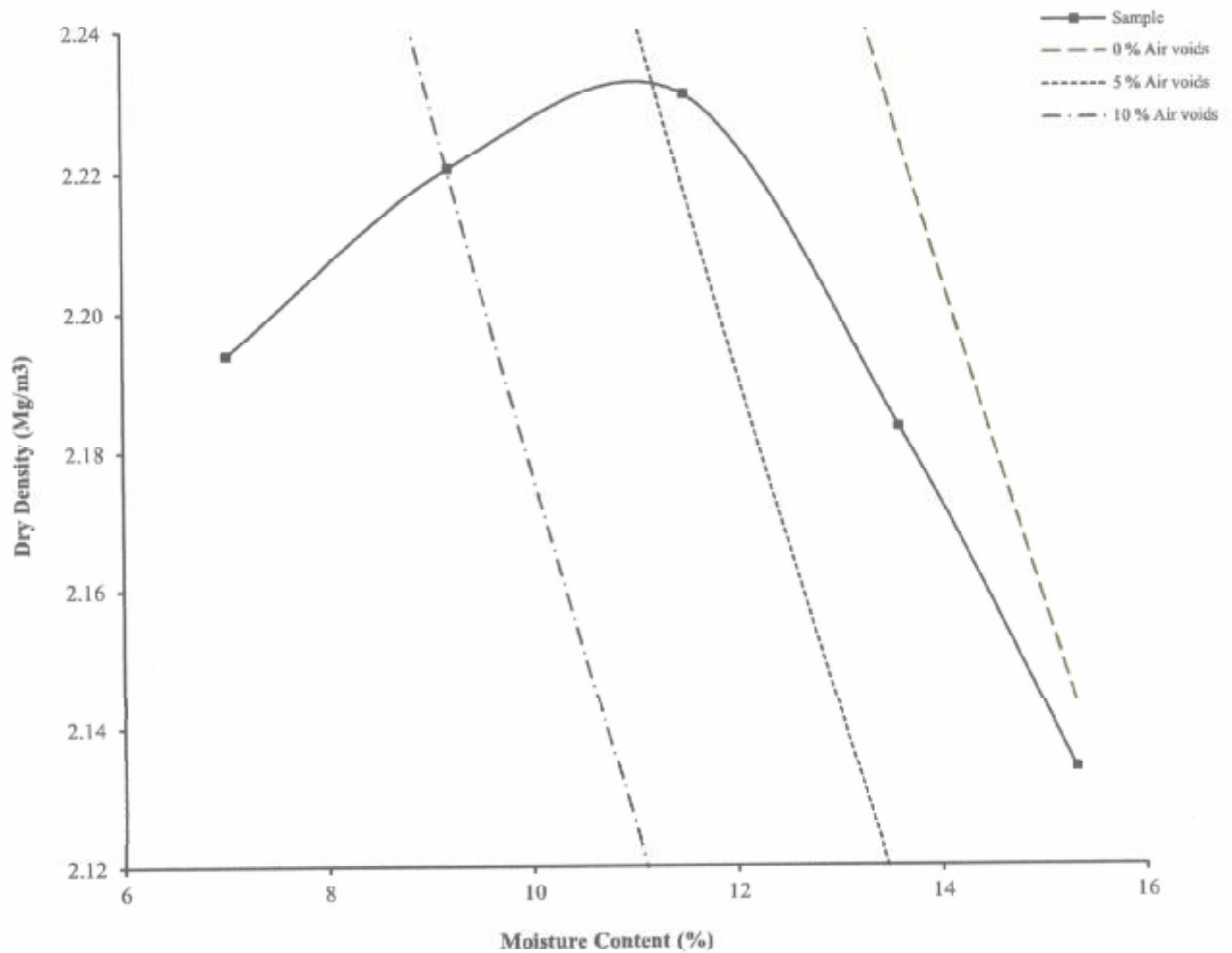
# DRY DENSITY / MOISTURE CONTENT RELATIONSHIP

Non compliance with BS 1377 : Part 4 : Clause 3.7 : 1990

Hole Number: Recycled B/F Slag Top Depth (m) :

Sample Number: Base Depth (m) :

Sample Type:



Initial Moisture Content:	7.0	Method of Compaction:	Vibro	Separate Samples
Particle Density (Mg/m <sup>3</sup> ):	3.19	Measured	Material Retained on 37.5 mm Test Sieve (%):	5
Maximum Dry Density (Mg/m <sup>3</sup> ):	2.23	Material Retained on 20.0 mm Test Sieve (%):	30	
Optimum Moisture Content (%):	12			
Remarks See summary of soil descriptions.				



**PSL**  
Professional Soils Laboratory

Overhall Aggregate

Contract  
PSL19/6200  
Client Ref

# CALIFORNIA BEARING RATIO TEST

Non compliance with BS 1377 : Part 4 : 1990

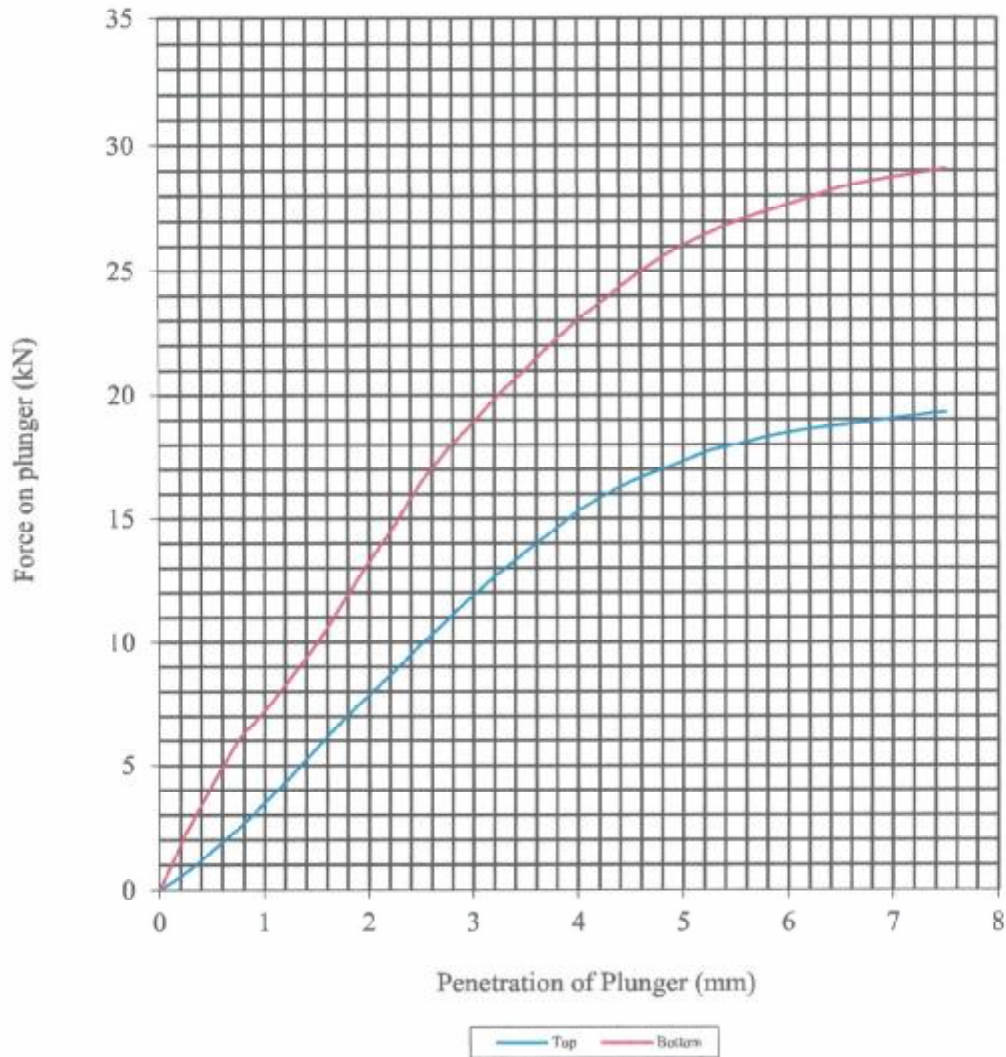
Hole Number: Recycled B/F Slag

Top Depth (m):

Sample Number:

Base Depth (m):

Sample Type:



Initial Sample Conditions		Sample Preparation		Final Moisture Content %		C.B.R. Value %	
Moisture Content:	7.0	Surcharge Kg:	4.20	Sample Top	7.0	Sample Top	86.7
Bulk Density Mg/m <sup>3</sup> :	2.35	Soaking Time hrs	0	Sample Bottom	7.0	Sample Bottom	130.2
Dry Density Mg/m <sup>3</sup> :	2.19	Swelling mm:	0.00	Remarks : See Summary of Soil Descriptions.			
Percentage retained on 20mm BS test sieve:			35				
Compaction Conditions		Vibro					



**PSL**  
Professional Soils Laboratory

Overhall Aggregate

Contract No:

PSL19/6200

Client Ref:

# DETERMINATION OF LOS ANGELES COEFFICIENT

BS EN ISO 1097 Part 2 : 2010

**Hole Number:** Recycled B/F Slag **Top Depth (m):**  
**Sample Number:** **Base Depth (m):**  
**Sample Type:** **Sample Date:**  
**Sample Description:** See summary of soil descriptions

Test Specimen Details:	Mass (g)	Mass (%)
Passing 14mm sieve	5000	100
Retained 12.5mm sieve	1585	32
Retained 10mm sieve	3415	68
Retained 1.6mm sieve post rotation and washing	4411	n/a

Test Results:	
LA Coefficient	12

Remarks:



Overhall Aggregates

Contract No:  
PSL19/6200  
Client Ref:



## Certificate of Analysis

*Certificate Number* 19-20931

24-Oct-19

*Client* Professional Soils Laboratory Ltd  
5/7 Hexthorpe Road  
Hexthorpe  
DN4 0AR

*Our Reference* 19-20931

*Client Reference* PSL19/6200

*Order No* (not supplied)

*Contract Title* Overhall Aggregate

*Description* One Soil sample.

*Date Received* 17-Oct-19

*Date Started* 17-Oct-19

*Date Completed* 24-Oct-19

*Test Procedures* Identified by prefix DETSn (details on request).

*Notes* Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

*Approved By*



Adam Fenwick  
Contracts Manager



2139

## Summary of Chemical Analysis

### Soil Samples

*Our Ref* 19-20931

*Client Ref* PSL19/6200

*Contract Title* Overall Aggregate

Lab No	1583340
Sample ID	Recycled &/F Slag
Depth	
Other ID	
Sample Type	SOIL
Sampling Date	15/10/19
Sampling Time	n/s

Test	Method	LOD	Units	
<b>Inorganics</b>				
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	140

## Information in Support of the Analytical Results

Our Ref 19-20931

Client Ref PSL19/6200

Contract Overall Aggregate

### Containers Received & Deviating Samples

Lab No	Sample ID	Date Sampled	Containers Received	Holding time exceeded for tests	Inappropriate container for tests
1583340	Recycled B/F Slag SOIL	15/10/19	PT 1L		
<p>Key: P-Plastic T-Tub</p> <p>DETS cannot be held responsible for the integrity of samples received whereby the laboratory did not undertake the sampling. In this instance samples received may be deviating. Deviating Sample criteria are based on British and international standards and laboratory trials in conjunction with the UKAS note 'Guidance on Deviating Samples'. All samples received are listed above. However, those samples that have additional comments in relation to hold time, inappropriate containers etc are deviating due to the reasons stated. This means that the analysis is accredited where applicable, but results may be compromised due to sample deviations. If no sampled date (soils) or date+time (waters) has been supplied then samples are deviating. However, if you are able to supply a sampled date (and time for waters) this will prevent samples being reported as deviating where specific hold times are not exceeded and where the container supplied is suitable.</p>					

### Soil Analysis Notes

Inorganic soil analysis was carried out on a dried sample, crushed to pass a 425µm sieve, in accordance with BS1377.

Organic soil analysis was carried out on an 'as received' sample. Organics results are corrected for moisture and expressed on a dry weight basis.

The Loss on Drying, used to express organics analysis on an air dried basis, is carried out at a temperature of 28°C +/- 2°C.

### Disposal

From the issue date of this test certificate, samples will be held for the following times prior to disposal :-

Soils - 1 month, Liquids - 2 weeks, Asbestos (test portion) - 6 months

Matte Black Surfacing Ltd  
 16 Carr Lane  
 Thealby  
 Scunthorpe  
 North Lincolnshire  
 DN15 9AE  
 Tel : 01724 720361  
 Email : matteblack@overhall.org  
**VAT Reg No:** 358 0292 90



C & K Builders Ltd  
 Manor House  
 School Lane  
 Appleby  
 North Lincolnshire  
 DN15 0AW

**INVOICE** Page 1

<b>Invoice No</b>	1000
<b>Invoice Date</b>	31/08/2020
<b>Order No</b>	
<b>Account Ref</b>	CHRISKEN

Description	Quantity	Unit Price	Net Amt	VAT %	VAT
Drop Kerb and fees	1.00			20.00	
Tarmac Drive and Soakaway	1.00			20.00	

9A Darwin Street  
 Kirton  
 DN21 4BZ

<b>Total Net Amount</b>	£	
<b>Total Tax Amount</b>	£	
<b>Invoice Total</b>	£	

**Payment Terms :** 30 Days  
**Sort Code:** 60-83-71  
**Account No:** 60497135