



INVESTIGATE



REMEDiate



REGENERATE



VERIFICATION REPORT

**FOR
PLOTS 2-4 LAUND ROAD,
SALENDINE NOOK,
HUDDERSFIELD,**

**PREPARED FOR
CREATIVE DEVELOPMENTS
(HUDDERSFIELD) LIMITED**

**REPORT NO. NE3941D
SEPTEMBER 2021**

SUB SURFACE NORTH EAST LIMITED

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CONTENTS

1. INTRODUCTION	1.1 Site Location and Description
	1.2 Proposed Development & Purpose of the Verification Report
2. REMEDIATION	2.1 Remediation Aims
	2.2 Remediation Methodology
3. VERIFICATION	3.1 Verification Site Visit
	3.2 Source Verification Analyses
	3.3 Conclusion
3. GENERAL	
APPENDICES	Calculations
	Transfer Notes for Topsoil
	Contamination Analyses
	Photographs
	Hand Dug Trial Pit Records
	Figures

**VERIFICATION OF TOPSOIL COVER SYSTEM FOR PLOTS 2-4 LAUND ROAD,
SALENDINE NOOK, HUDDERSFIELD**

CLIENT: CREATIVE DEVELOPMENTS (HUDDERSFIELD) LIMITED

ARCHITECT: NORTHERN DESIGN PARTNERSHIP

1. INTRODUCTION

This report has been prepared in accordance with an email dated 23rd June 2020 from the Client.

The brief was set out in our estimate, ref. E6654C and dated 22nd June 2020, and includes:

- Site visit to inspect and photograph the cover system
- 3 No. hand dug pits
- Provision of a verification report on the above.

The following reports have previously been issued for this site and should be read in conjunction with this Remediation Statement:

- Phase I Desk Study Reference: A0697/17, November 2017 undertaken by Earth Environmental & Geotechnical Ltd (EEG)
- Phase II Ground Investigation Reference: A0697/17, October 2019 undertaken by Earth, Environmental & Geotechnical Ltd (EEG)
- Addendum Phase II Investigation Reference: A0697/20, January 2020 undertaken by Earth Environmental & Geotechnical Ltd (EEG)

In addition, it should be noted that we have addressed the gas protection measures installed in Plots 2 to 4 in a separate Verification Report ref. NE3941C, dated August 2021.

1.1 Site Location and Description

The site is located off Laund Road to the northwest of Huddersfield town centre. The site is roughly L-shaped with maximum approximate dimensions of 70m by 30m. The National Grid Reference for the centre of the site is 410379E, 418266N.

The site is accessed off Laund Road and is bound by open land with some houses to the north and east, by residential properties and gardens to the north west and along the southern side, and by Laund Road to the south west.

The site rises up from Laund Road to the main flat part of the site in its rear northern half, with the land beyond rising up further. Some retaining features are present along parts of the southern boundary and part is a sloping garden area, bordered by mature and semi mature trees and bushes.

1.2 Proposed Development & Purpose of the Verification Report

The site is currently being developed as residential housing as depicted on Figure 2.

The purpose of this Verification Report is to confirm that the topsoil cover system has been implemented in accordance with best practice guidance and to sufficient depth to protect the end users of the site from risk of exposure to chemical contamination in the sub soil.

2. REMEDIATION

2.1 Remediation Aims

EEG Report ref. A0697/17, dated October 2019 found that the near surface soil contains concentrations of contaminants in exceedance of assessment criteria values relevant to a residential end use with plant uptake. Contaminants in exceedance included a selection of heavy metals and polycyclic aromatic hydrocarbons (PAHs). Chrysotile and amosite asbestos was also identified in the near surface soil samples with relatively low quantification results of <0.001% to 0.007%. The EEG report concluded that the overall potential risk to residential end users is moderate, and that remediation is required to mitigate this risk.

2.2 Remediation Methodology

The remediation methodology adopted was as follows:

- A 600mm blanket of clean topsoil was placed in the back gardens to Plots 2,3 and 4.
- A 450mm blanket of clean topsoil was placed in front and side gardens to Plots 2,3 and 4.

Calculations undertaken in accordance with BRE Report BR465 "Cover systems for land regeneration" using the maximum contaminant concentrations recorded by EEG indicate that a minimum 385mm of clean cover would be required to protect the end users of the development. It should be noted that this is a conservative calculation which assumes complete soil mixing. A copy of the calculation sheet is appended.

In our professional opinion the adopted 600mm cover will therefore provide adequate protection, will allow for some variation in placement depth and will also reduce the potential for the upward migration of solid contaminants such as asbestos fibres due to bioturbation, which normally occurs in the upper 300mm.

3. VERIFICATION

3.1 Verification Site Visit

Sub Surface North East Limited visited the site on the 25th August 2021 to inspect the topsoil cover system.

Three hand dug pits were taken out at the positions determined and set out by Sub Surface North East Limited, as shown on Figure 2. The hand dug trial pits were excavated to the base of the cover system at a depth of 0.60m. Samples were taken for logging, in accordance with BS EN ISO 14688-1: 2018 and BS EN ISO 14689-1: 2018, and the resulting Hand Dug Trial Pit Records are appended and the findings are summarised in the following table:

TABLE 1 Hand Dug Pit Summary

Pit No.	Location	Depth of Clean Topsoil (mm)	Description
HD1	Plot 2	600	Brown slightly gravelly sandy topsoil.
HD2	Plot 3	600	Brown slightly gravelly sandy topsoil.
HD3	Plot 4	600	Brown slightly gravelly sandy topsoil.

Photographs were taken on completion of each of the hand dug pits and copies are appended.

3.2 Source Verification Analyses

The topsoil used in the cover system appeared to be from a natural source and was provided by Darrington Quarries via Green Tech Limited. Delivery notes and topsoil quality certification for the imported material are appended.

The contact details of the supplier are as follows:

Green Tech Limited
Rabbit Hill Business Park
Great North Road
Arkendale
HG5 0FF

Three samples of the topsoil taken from the hand dug pits were subjected to the following suite of verification analyses by an MCERTS and UKAS accredited laboratory (Chemtest Limited):

Arsenic	Nickel
Asbestos	pH
Boron	Phenols
Cadmium	Polynuclear Aromatic Hydrocarbons (16 EPA PAH)
Chromium	Selenium
Copper	Sulphide
Cyanide	Sulphate
Lead	Total Petroleum Hydrocarbons (3-BAND SPECIATION)
Mercury	Zinc

We understand that some 120 tonnes of soil was imported to site giving a sampling frequency of approximately one sample per 26 m³ of material, which exceeds the recommended minimum density of one sample every 100m³ for a recycled source and one sample every 250m³ for a greenfield source as recommended in YAHPAC 'Verification Requirements for Cover Systems' (2013).

The results of the analyses were compared with generic assessment criteria (GACs) for a residential end use with homegrown produce and no elevated contaminants were found.

GACs used for the assessment can be supplied directly to the Regulator, if requested.

3.3 Conclusion

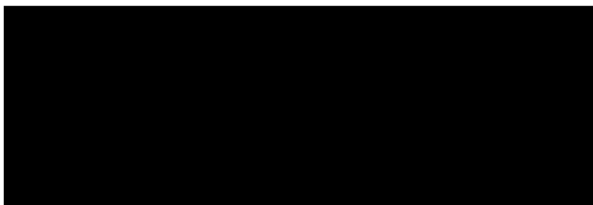
In our opinion, the implementation of the cover system has been successful with a minimum depth of clean cover of 600mm being achieved in Plots 2, 3 and 4. This depth of cover exceeds the recommendations given in BRE BR465 and should provide adequate protection to the end users of the site.

4. GENERAL

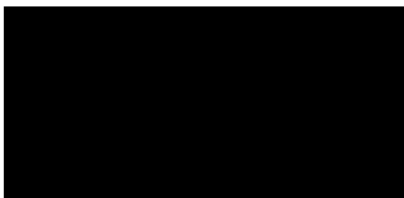
We recommend that this Verification Report should be submitted to the Local Authority Environmental Health Officer for their consideration and written approval obtained prior to finalising the development.

We trust that this report fulfils your present requirements but if you have any queries or we can be of further assistance please contact the undersigned or Mr David Simpson at our Ossett office.

SUB SURFACE CONSULTANTS LIMITED
REPORT No. NE3941D
SEPTEMBER 2021



D. Ravenscroft-Jones Cert Nat Sci (Open), BSc.(Hons.), MSc., CEnv, MEnvSc, AMRSC
Senior Geoenvironmental Engineer
For and on behalf of
Sub Surface Consultants Limited



C. A. Marsden B.Sc.(Hons.), C.Eng., M.I.C.E.
Director
For and on behalf of
Sub Surface Consultants Limited.

CALCULATIONS



SUB SURFACE LIMITED

SITE INVESTIGATION AND SPECIALIST GEOTECHNICAL CONSULTANTS

3 Peel Street, Preston, PR2 2QS. Tel. (01772) 561135 Fax (01772) 204907

Contamination Assessment

Site: PLOTS 2 - 4, LAUND ROAD, HUDDERSF ELD

Client: CREATIVE (DEVELOPMENTS) HUDDERSFILED

Engineer: NORTHERN DESIGN PARTNERSH P

Job Number

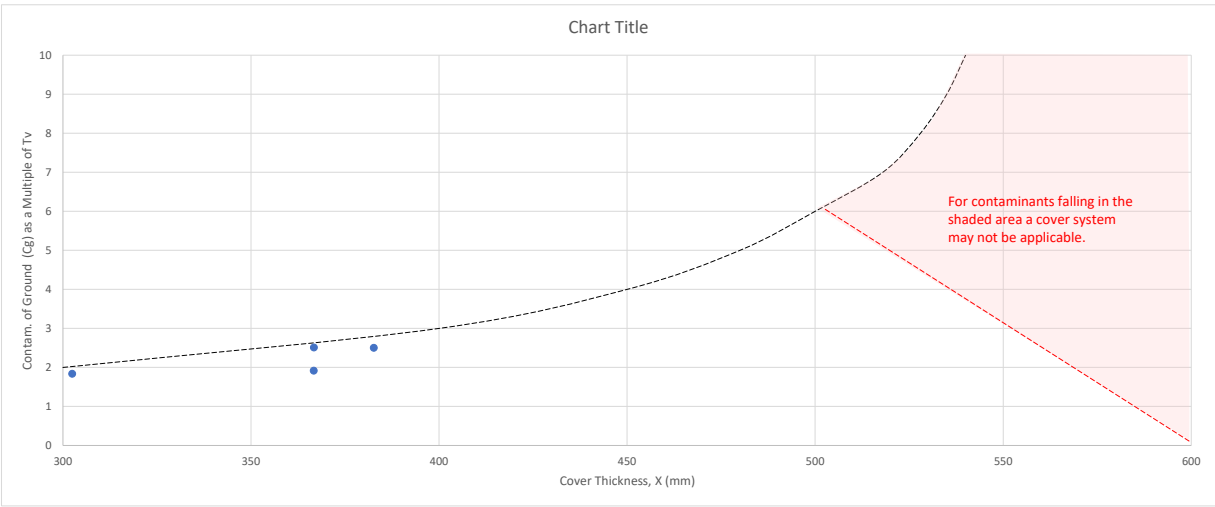
NE3941D

Sheet

1/1

BRE BR465 TOPSOIL COVER SYSTEM MINIMUM THICKNESS CALCULATOR

Determinand (Maximum Concentrations)	Contam of Ground (mg/kg)	Contam of Cover (mg/kg)	Target Value Tv (mg/kg)	Target Value Source	Soil/Target Value Cg	Cover/Target Value Cc	Cover Required X (mm)
Arsenic	68	6.5	37	S4UL	1.84	0.18	302
Lead	501	29	200	C4SL	2.51	0.15	383
Naphthalene	3.29	0.1	2.3	S4UL	1.43	0.04	186
Benzo(b)fluoranthene	6.53	0.1	2.6	S4UL	2.51	0.04	367
Benzo(a)pyrene	5.29	0.1	5	C4SL	1.06	0.02	34
Dibenz(a,h)anthracene	0.46	0.1	0.24	S4UL	1.92	0.42	367



Assumed Mixed Zone (mm) = 600

Cover system should comprise a minimum 300mm thickness

If X is >= 600mm then a cover sytem may not be appropriate

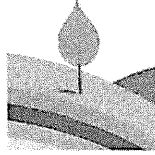
Minimum Thickness Required :

383 mm

Comments:

Calculations based on BRE Report BR465 "Cover systems for land regeneration" .

CONTAMINATION ANALYSIS RESULTS



TIM O'HARE ASSOCIATES
SOIL & LANDSCAPE CONSULTANCY

Mr Mark Wood
Green-tech Ltd
Rabbit Hill Business Park
Great North Road
Arkendale
Knaresborough
North Yorkshire HG5 0FF

27th May 2021
Our Ref: TOHA/21/9991/SS
Your Ref: PO 411616

Dear Sirs

Topsoil Analysis Report: Barnsdale Landscape Grade Topsoil

We have completed the analysis of the soil sample recently submitted, referenced *Barnsdale Landscape Grade Topsoil*, and have pleasure reporting our findings.

The purpose of the analysis was to determine the suitability of the sample for general landscape purposes (trees, shrubs, amenity grass). In addition, this sample has been assessed to determine its compliance with the requirements of the British Standard for Topsoil (*BS3882:2015 – Specification for Topsoil – Table 1, Multipurpose Topsoil*).

This report presents the results of analysis for the sample submitted to our office, and it should be considered 'indicative' of the topsoil source. The report and results should therefore not be used by third parties as a means of verification or validation testing or waste designation purposes, especially after the topsoil has left the Green-tech Ltd site.

SAMPLE EXAMINATION

The sample was described as a brown (Munsell Colour 7.5YR 4/3), slightly moist, friable, very slightly calcareous, fine to medium LOAMY SAND with a weakly developed, very fine to fine granular structure*. The sample was virtually stone-free and contained a low proportion of organic fines and very occasional woody fragments. No unusual odours, roots or rhizomes of pernicious weeds were observed.

*This appraisal of soil structure was made from examination of a disturbed sample(s). Structure is a key soil characteristic that may only be accurately assessed by examination in an in-situ state.

Tim O'Hare Associates LLP
Howbery Park Wallingford Oxfordshire OX10 8BA
T:01491 822653 E:info@toha.co.uk
www.toha.co.uk

ANALYTICAL SCHEDULE

The sample was submitted to a UKAS and MCERTS accredited laboratory for a range of physical and chemical tests to confirm the composition and fertility of the soil, and the concentration of selected potential contaminants. The following parameters were determined:

- detailed particle size analysis (5 sands, silt, clay);
- stone content (2-20mm, 20-50mm, >50mm);
- pH and electrical conductivity values;
- exchangeable sodium percentage;
- major plant nutrients (N, P, K, Mg);
- organic matter content;
- C:N ratio;
- heavy metals (As, Cd, Cr, Cu, Pb, Hg, Ni, Se, Zn, B);
- total cyanide and total (mono) phenols;
- speciated PAHs (US EPA16 suite);
- aromatic and aliphatic TPH (C5-C35 banding);
- benzene, toluene, ethylbenzene, xylene (BTEX);
- asbestos screen.

The results are presented on the attached Certificate of Analysis and an interpretation of the results is given below.

RESULTS OF ANALYSIS

Detailed Particle Size Analysis and Stone Content

The sample fell into the *loamy sand* texture class. Further detailed particle size analysis found the sample to have a sufficiently narrow particle size distribution and a predominance of *medium sand* (0.25-0.50mm) followed by smaller proportions of *fine sand* (0.15-0.25mm). This particle size distribution is usually considered suitable for general landscape applications provided the soil's physical condition is satisfactory.

The sample was virtually stone-free and as such, stones should not restrict the use of the soil for general landscape purposes.

pH and Electrical Conductivity Values

The sample was strongly alkaline in reaction (pH 8.5). This pH value would be considered suitable for general landscape purposes providing species with a wide pH tolerance or those known to prefer alkaline soils are selected for planting, turfing and seeding.

The electrical conductivity (salinity) value (water extract) was low, which indicates that soluble salts should not be present at levels that would be harmful to plants.

The electrical conductivity value by CaSO₄ extract (BS3882 requirement) fell below the maximum specified value (3300 µS/cm) given in BS3882:2015 – Table 1.

Organic Matter and Fertility Status

The sample was adequately supplied with organic matter and most major plant nutrients, but was deficient in total nitrogen. This can be remedied by an appropriate fertiliser application.

The C:N ratio of the sample was acceptable for general landscape purposes.

Potential Contaminants

With reference to *BS3882:2015 - Table 1*: Notes 3 and 4, there is a recommendation to confirm levels of potential contaminants in relation to the topsoil's proposed end use. This includes human health, environmental protection and metals considered toxic to plants. In the absence of site-specific assessment criteria, the concentrations that affect human health have been assessed for *residential with homegrown produce* end-use against the Suitable For Use Levels (S4ULs) presented in *The LQM/CIEH S4ULs for Human Health Risk Assessment* (2015) and the DEFRA SP1010: *Development of Category 4 Screening Levels (C4SLs) for Assessment of Land Affected by Contamination – Policy Companion Document* (2014).

Of the potential contaminants determined, none was found at levels that exceeded their guideline values.

Phytotoxic Contaminants

Of the phytotoxic (toxic to plants) contaminants determined (copper, nickel, zinc), none was found at levels that exceeded the maximum permissible levels specified in *BS3882:2015 – Table 1*.

CONCLUSION

The purpose of the analysis was to determine the suitability of the sample for general landscape purposes (trees, shrubs, amenity grass). In addition, this sample has been assessed to determine its compliance with the requirements of the British Standard for Topsoil (*BS3882:2015 – Specification for Topsoil – Table 1, Multipurpose Topsoil*).

From the soil examination and subsequent laboratory analysis, the sample was described as strongly alkaline, non-saline, very slightly calcareous loamy sand with a weakly developed structure and very low stone content. The sample was adequately supplied in organic matter and most major plant nutrients, but was deficient in total nitrogen. Of the potential contaminants determined, none exceeded their respective guideline values.

To conclude, based on our findings, the topsoil represented by this sample would be considered suitable for general landscape purposes (trees, shrubs and amenity grass), provided species with a wide pH tolerance or those known to prefer alkaline soils are selected, the total nitrogen deficiency is addressed and the physical condition of the soil is satisfactory.

The sample was largely compliant with the requirements of the British Standard for Topsoil (*BS3882:2015 – Specification for topsoil and requirements for use – Table 1, Multipurpose Topsoil*) with the exception of a deficiency in total nitrogen. On this occasion, this is considered a minor non-compliance, provided it is remedied with a routine fertiliser application.

General Landscape Environments

Rootballed Trees

The most demanding planting environment is semi-mature, pit planted trees. Trees of this size and age have grown accustomed to optimum growing conditions in the nursery, and these need to be replicated when the rootballed or containerised tree is planted in the pit. In particular, aeration and drainage around the rootball are critical. Without these properties, trees will very quickly suffer and possibly die during their first few growing seasons after planting.

The topsoil can be used as backfill in tree pits to a maximum depth of 400mm, provided the topsoil is kept dry and non-plastic during planting.

Shrubs

Containerised shrubs are generally more tolerant of a wider range of soil-types, and they require less topsoil to root into than trees. The topsoil would be suited to a range of shrubs typically used in commercial and domestic landscaping.

Forestry Stock

Less demanding planting habitats include indigenous woodland planting, planted as small whips and feathered trees. The topsoil would be suitable for such planting environments.

Amenity Grass

This soil would be considered suitable for amenity grass seeding and turfing

Sports Pitches

This soil is suited for sports pitch construction given its high sand content. However, all materials to be used for sports pitch construction, including topsoil, should be carefully considered in relation to the required performance and standard of the sports pitch.

Domestic Gardens

The horticultural properties of the soil would be suitable for domestic garden applications. In addition, of the potential contaminants determined, none was found at levels that would be considered elevated. However, permissible levels for potential contaminants do vary from site to site. Therefore, the suitability of topsoil represented by this sample for any particular project or development should be confirmed by comparing the results against the site's specific assessment criteria.

RECOMMENDATIONS

Fertiliser for Planting

To address the nutrient deficiency and to help promote effective plant establishment, we recommend applying and incorporating the compound, controlled release fertiliser *ICL Osmocote PrePlant* (17%N:9%P₂O₅:10%K₂O:2%MgO+TE) at a rate of 70 g/m² for planting beds and/or 180 g/tree pit, and to a depth of 200mm.

Fertiliser for Amenity Grass Establishment

To address the nutrient deficiency and to help promote effective grass establishment, we recommend applying and incorporating the pre-seeding grass fertiliser *ICL Sportsmaster Pre-seeder* (8%N:12%P₂O₅:8%K₂O+3%MgO) prior to seeding or turfing at a rate of 35 g/m² and to a depth of 100mm.

Soil Handling Recommendations

It is important to maintain the physical condition of the soil and avoid structural damage during all phases of soil handling (e.g. stockpiling, resspreading, cultivating, planting, seeding or turfing). As a consequence, soil handling operations should be carried out when soil is reasonably dry and non-plastic (friable) in consistency.

It is important to ensure that the soil is not unnecessarily compacted by trampling or trafficking by site machinery, and soil handling should be stopped during and after heavy rainfall and not continued until the soil is friable in consistency. If the soil is structurally damaged and compacted at any stage during the course of soiling or landscaping works, it should be cultivated appropriately to relieve the compaction and to restore the soil's structure prior to any planting, turfing or seeding.

Further details on soil handling are provided in Annex A of BS3882:2015.

We hope this report meets with your approval and provides the necessary information. Please do not hesitate to contact the undersigned if we can be of further assistance.

Yours faithfully



Tilly Kimble-Wilde
BSc MSc
Graduate Soil Scientist



Rebecca Hollands
BSc MSc MSoilSci
Senior Soil Scientist

For & on behalf of Tim O'Hare Associates LLP



TIM O'HARE ASSOCIATES
SOIL & LANDSCAPE CONSULTANCY

Client:	Green-tech Ltd
Project:	Barnsdale Landscape Grade
Job:	Topsoil Analysis - BS3882:2015
Date:	27/05/2021
Job Ref No:	TOHA/21/9991/SS

Sample Reference		
		Accreditation
Clay (<0.002mm)	%	UKAS
Silt (0.002-0.05mm)	%	UKAS
Very Fine Sand (0.05-0.15mm)	%	UKAS
Fine Sand (0.15-0.25mm)	%	UKAS
Medium Sand (0.25-0.50mm)	%	UKAS
Coarse Sand (0.50-1.0mm)	%	UKAS
Very Coarse Sand (1.0-2.0mm)	%	UKAS
Total Sand (0.05-2.0mm)	%	UKAS
Texture Class (UK Classification)	-	UKAS
Stones (2-20mm)	% DW	GLP
Stones (20-50mm)	% DW	GLP
Stones (>50mm)	% DW	GLP

Landscape Grade	
6	
18	
18	
23	
30	
4	
3	
78	
LS	
1	
0	
0	

pH Value (1:2.5 water extract)	units	UKAS
Electrical Conductivity (1:2.5 water extract)	uS/cm	UKAS
Electrical Conductivity (1:2 CaSO ₄ extract)	uS/cm	UKAS
Exchangeable Sodium Percentage	%	UKAS
Organic Matter (LOI)	%	UKAS
Total Nitrogen (Dumas)	%	UKAS
C : N Ratio	ratio	UKAS
Extractable Phosphorus	mg/l	UKAS
Extractable Potassium	mg/l	UKAS
Extractable Magnesium	mg/l	UKAS

8.5	
435	
2364	
2.9	
3.0	
0.12	
15	
31	
430	
132	

Total Arsenic (As)	mg/kg	MCERTS
Total Cadmium (Cd)	mg/kg	MCERTS
Total Chromium (Cr)	mg/kg	MCERTS
Hexavalent Chromium (Cr VI)	mg/kg	MCERTS
Total Copper (Cu)	mg/kg	MCERTS
Total Lead (Pb)	mg/kg	MCERTS
Total Mercury (Hg)	mg/kg	MCERTS
Total Nickel (Ni)	mg/kg	MCERTS
Total Selenium (Se)	mg/kg	MCERTS
Total Zinc (Zn)	mg/kg	MCERTS
Water Soluble Boron (B)	mg/kg	MCERTS
Total Cyanide (CN)	mg/kg	MCERTS
Total (mono) Phenols	mg/kg	MCERTS

4	
0.4	
7	
< 4.0	
21	
14	
< 0.3	
7	
< 1.0	
37	
0.7	
< 1.0	
< 1.0	

Naphthalene	mg/kg	MCERTS
Acenaphthylene	mg/kg	MCERTS
Acenaphthene	mg/kg	MCERTS
Fluorene	mg/kg	MCERTS
Phenanthrene	mg/kg	MCERTS
Anthracene	mg/kg	MCERTS
Fluoranthene	mg/kg	MCERTS
Pyrene	mg/kg	MCERTS
Benzo(a)anthracene	mg/kg	MCERTS
Chrysene	mg/kg	MCERTS
Benzo(b)fluoranthene	mg/kg	MCERTS
Benzo(k)fluoranthene	mg/kg	MCERTS
Benzo(a)pyrene	mg/kg	MCERTS
Indeno(1,2,3-cd)pyrene	mg/kg	MCERTS
Dibenzo(a,h)anthracene	mg/kg	MCERTS
Benzo(g,h,i)perylene	mg/kg	MCERTS
Total PAHs (sum USEPA16)	mg/kg	MCERTS

< 0.05	
< 0.05	
< 0.05	
< 0.05	
< 0.05	
< 0.05	
< 0.05	
< 0.05	
< 0.05	
< 0.05	
< 0.05	
< 0.05	
< 0.05	
< 0.05	
< 0.05	
< 0.80	

Aliphatic TPH >C5 - C6	mg/kg	MCERTS
Aliphatic TPH >C6 - C8	mg/kg	MCERTS
Aliphatic TPH >C8 - C10	mg/kg	MCERTS
Aliphatic TPH >C10 - C12	mg/kg	MCERTS
Aliphatic TPH >C12 - C16	mg/kg	MCERTS
Aliphatic TPH >C16 - C21	mg/kg	MCERTS
Aliphatic TPH >C21 - C35	mg/kg	MCERTS
Aliphatic TPH (C5 - C35)	mg/kg	MCERTS
Aromatic TPH >C5 - C7	mg/kg	MCERTS
Aromatic TPH >C7 - C8	mg/kg	MCERTS
Aromatic TPH >C8 - C10	mg/kg	MCERTS
Aromatic TPH >C10 - C12	mg/kg	MCERTS
Aromatic TPH >C12 - C16	mg/kg	MCERTS
Aromatic TPH >C16 - C21	mg/kg	MCERTS
Aromatic TPH >C21 - C35	mg/kg	MCERTS
Aromatic TPH (C5 - C35)	mg/kg	MCERTS

< 0.001	
< 0.001	
< 0.001	
< 1.0	
< 2.0	
< 8.0	
< 8.0	
< 10	
< 0.001	
< 0.001	
< 0.001	
< 1.0	
< 2.0	
< 10	
< 10	
< 10	

Benzene	mg/kg	MCERTS
Toluene	mg/kg	MCERTS
Ethylbenzene	mg/kg	MCERTS
p & m-xylene	mg/kg	MCERTS
o-xylene	mg/kg	MCERTS
MTBE (Methyl Tertiary Butyl Ether)	mg/kg	MCERTS

< 0.001	
< 0.001	
< 0.001	
< 0.001	
< 0.001	
< 0.001	

Asbestos Screen	ND/D	ISO 17025
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Not-detected

LS = LOAMY SAND

Visual Examination

The sample was described as a brown (Munsell Colour 7.5YR 4/3), slightly moist, friable, very slightly calcareous, fine to medium LOAMY SAND with a weakly developed, very fine to fine granular structure. The sample was virtually stone-free and contained a low proportion of organic fines and very occasional woody fragments. No unusual odours, roots or rhizomes of pernicious weeds were observed.

Results of analysis should be read in conjunction with the report they were issued with

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Tilly Kimble-Wilde
BSc MSc
Graduate Soil Scientist



2183

Final Report

Report No.: 21-30695-1
Initial Date of Issue: 14-Sep-2021
Client Sub Surface
Client Address: 3 Peel Street
Preston
Lancashire
PR2 2QS
Contact(s): Simon Gabbatt
Project NE3941D Plot 2, 3, 4 Laund Road,
Huddersfield

Quotation No.:	Date Received:	06-Sep-2021
Order No.:	Date Instructed:	06-Sep-2021
No. of Samples: 3		
Turnaround (Wkdays): 7	Results Due:	14-Sep-2021
Date Approved: 14-Sep-2021		



Details: Glynn Harvey, Technical Manager

Results - Soil

Project: NE3941D Plot 2, 3, 4 Laund Road, Huddersfield

Client: Sub Surface	Chemtest Job No.:				21-30695	21-30695	21-30695
Quotation No.:	Chemtest Sample ID.:				1272947	1272948	1272949
	Client Sample ID.:				21	22	23
	Sample Location:				HD1	HD2	HD3
	Sample Type:				SOIL	SOIL	SOIL
	Top Depth (m):				0.00	0.00	0.00
	Date Sampled:				25-Aug-2021	25-Aug-2021	25-Aug-2021
	Asbestos Lab:				DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD			
ACM Type	U	2192		N/A	-	-	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture	N	2030	%	0.020	6.5	6.7	7.0
pH	U	2010		4.0	8.3	8.6	8.2
Boron (Hot Water Soluble)	U	2120	mg/kg	0.40	< 0.40	< 0.40	< 0.40
Cyanide (Total)	U	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50
Sulphide (Easily Liberatable)	N	2325	mg/kg	0.50	1.1	1.4	0.81
Sulphate (Total)	U	2430	%	0.010	0.025	0.031	0.018
Arsenic	U	2450	mg/kg	1.0	6.5	5.7	3.5
Cadmium	U	2450	mg/kg	0.10	0.25	0.25	0.17
Chromium	U	2450	mg/kg	1.0	110	5.8	4.2
Molybdenum	U	2450	mg/kg	2.0	< 2.0	< 2.0	< 2.0
Copper	U	2450	mg/kg	0.50	18	17	12
Mercury	U	2450	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Nickel	U	2450	mg/kg	0.50	7.1	5.9	4.6
Lead	U	2450	mg/kg	0.50	29	19	11
Selenium	U	2450	mg/kg	0.20	< 0.20	< 0.20	< 0.20
Zinc	U	2450	mg/kg	0.50	34	31	23
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50
TPH >C6-C10	N	2670	mg/kg	1.0	< 1.0	1.1	< 1.0
TPH >C10-C21	N	2670	mg/kg	1.0	< 1.0	36	< 1.0
TPH >C21-C40	N	2670	mg/kg	1.0	< 1.0	97	< 1.0
Total TPH >C6-C40	U	2670	mg/kg	10	< 10	130	< 10
Naphthalene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Fluorene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Anthracene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Pyrene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Chrysene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: NE3941D Plot 2, 3, 4 Laund Road, Huddersfield

Client: Sub Surface	Chemtest Job No.:				21-30695	21-30695	21-30695
Quotation No.:	Chemtest Sample ID.:				1272947	1272948	1272949
	Client Sample ID.:				21	22	23
	Sample Location:				HD1	HD2	HD3
	Sample Type:				SOIL	SOIL	SOIL
	Top Depth (m):				0.00	0.00	0.00
	Date Sampled:				25-Aug-2021	25-Aug-2021	25-Aug-2021
	Asbestos Lab:				DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD			
Indeno(1,2,3-c,d)Pyrene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	U	2700	mg/kg	2.0	< 2.0	< 2.0	< 2.0
Benzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0
Toluene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0
Ethy benzene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0
o-Xylene	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0
Methyl Tert-Butyl Ether	U	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0
Total Phenols	U	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com

TRANSFER NOTES FOR TOPSOIL



DARRINGTON QUARRIES LTD

Darrington Lays, Cridding Stubbs, Knottingley, Yorkshire WF11 0AH
Telephone: (01977) 672368 Fax: (01977) 673246
www.fccenvironment.co.uk/darrington

PLACE OF LOADING CUSWORTH H		TICKET NO. 4145547	
SIGNATURE _____		0 25/08/2021 11.04	
HAULIER WHITEHEAD			
VEHICLE REG'N. No. FX13CWE		First Wt 0 Kg Tare Wt 10,160 Kg 0 Second Wt 24,080 Kg 0029341	
DRIVER'S SIGNATURE ADRIAN DABBY		Nett Wt 13920 Kg	
DESCRIPTION OF GOODS ST LANDSCAPE SOIL (BS3883 2015)		CUSTOMER GREEN TECH LTD Cust Order No 414003 Source	
DESTINATION EX WORKS			
RECEIVED BY: SIGNATURE _____ PRINT NAME _____ DATE _____			

Darrington Quarries Limited, registered in England and Wales No. 02779408, subsidiary company of FCC Environment (UK) Limited, No. 2902419
last registered at 900 Parkway Drive, Northampton Business Park, Northampton NN4 7NS
AGGREGATES LEVY REGD NO. 10896 0000



833461

P & A WHITEHEAD LTD TIPPER HIRE Tel: 07788 913591



Customer <i>Creative Dev</i>			
Delivery Address <i>laund Rd</i>			
Haulage Contractor <i>Pea</i>			
Vehicle Reg No <i>FX13</i>		Time Loaded:	
Trailer No.		Time Delivered:	
Driver: <i>A101</i>		Date Delivered <i>25.8.21</i>	
Material Description: <i>Green tech landscape top soil</i>		Quarry/Pit ticket no:	
Loading Address <i>Darrington</i>		GROSS	Tonne
		TARE	
		NETT	<i>14 62</i>
Signed <i>[Signature]</i>			
Print Name <i>SAQIS HAF12</i>		Job Title:	

White copy: Customer
Yellow copy: Office
Pink copy: Haulier's
Green copy: Book

No: 20951



DARRINGTON QUARRIES LTD

Darrington Leys, Cridding Stubbs, Knottingley, Yorkshire WF11 0AH
Telephone: (01977) 672368 Fax: (01977) 673246
www.fccenvironment.co.uk/darrington

Ticket No. 4145514

PLACE OF LOADING

CUSWORTH H

SIGNATURE

HAULIER

WHITEHEAD

VEHICLE REGN. No.

FX13CWE

DRIVER'S SIGNATURE

ADRIAN DARBV

0

20/08/2021
09:51

First Wt 0 Kg
Tare Wt 10,160 Kg 0
Second Wt 24,790 Kg 0029308

Nett Wt 14620 Kg

DESCRIPTION OF GOODS

GT LANDSCAPE SOIL
(BS3682 2015)

CUSTOMER

GREEN TECH LTD
Cust Order No
414003
Source

DESTINATION

EX WORKS

RECEIVED BY:

SIGNATURE

PRINT NAME

DATE



Darrington Quarries Limited, registered in England and Wales No. 0270458, subsidiary company of FCC Environment UK Limited, No. 2802474
with registered office at 600 Hudders Lane, Northampton Business Park, Northampton NN4 7YS
AGGREGATES LEVY REGD NO. 10966 0000

833428



DARRINGTON QUARRIES LTD

Darrington Leys, Cridding Stubbs, Knottingley, Yorkshire WF11 0AH
Telephone: (01977) 672368 Fax: (01977) 673246
www.fccenvironment.co.uk/darrington

Ticket No. 4145259

PLACE OF LOADING

CUSWORTH H

SIGNATURE

HAULIER

WHITEHEAD

VEHICLE REGN. No.

FX13CWE

DRIVER'S SIGNATURE

ADRIAN DARBV

0

20/08/2021
07:45

First Wt 0 Kg
Tare Wt 10,240 Kg 0
Second Wt 25,160 Kg 0029058

Nett Wt 14920 Kg

DESCRIPTION OF GOODS

GT LANDSCAPE SOIL
(BS3682 2015)

CUSTOMER

GREEN TECH LTD
Cust Order No
413849
Source

DESTINATION

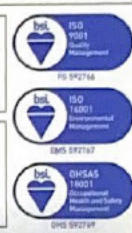
EX WORKS

RECEIVED BY:

SIGNATURE

PRINT NAME

DATE



Darrington Quarries Limited, registered in England and Wales No. 0270458, subsidiary company of FCC Environment UK Limited, No. 2802474
with registered office at 600 Hudders Lane, Northampton Business Park, Northampton NN4 7YS
AGGREGATES LEVY REGD NO. 10966 0000

833174



DARRINGTON QUARRIES LTD

Darrington Leys, Cridding Stubbs, Knottingley, Yorkshire WF11 0AH
Telephone: (01977) 672368 Fax: (01977) 673246
www.fccenvironment.co.uk/darrington

Ticket No. 4145270

PLACE OF LOADING

CUSWORTH H

SIGNATURE

HAULIER

WHITEHEAD

VEHICLE REGN. No.

FX13CWE

DRIVER'S SIGNATURE

ADRIAN DARBV

0

20/08/2021
09:53

First Wt 0 Kg
Tare Wt 10,240 Kg 0
Second Wt 25,290 Kg 0029069

Nett Wt 15040 Kg

DESCRIPTION OF GOODS

GT LANDSCAPE SOIL
(BS3682 2015)

CUSTOMER

GREEN TECH LTD
Cust Order No
413849
Source

DESTINATION

EX WORKS

RECEIVED BY:

SIGNATURE

PRINT NAME

DATE



Darrington Quarries Limited, registered in England and Wales No. 0270458, subsidiary company of FCC Environment UK Limited, No. 2802474
with registered office at 600 Hudders Lane, Northampton Business Park, Northampton NN4 7YS
AGGREGATES LEVY REGD NO. 10966 0000

833185



DARRINGTON QUARRIES LTD

Darrington Leys, Cridding Stubbs, Knottingley, Yorkshire WF11 0AH
Telephone: (01977) 672368 Fax: (01977) 673246
www.fccenvironment.co.uk/darrington

Ticket No. 4145287

PLACE OF LOADING

CUSWORTH H

SIGNATURE

HAULIER

WHITEHEAD

VEHICLE REGN. No.

FX13CWE

DRIVER'S SIGNATURE

ADRIAN DARBV

0

20/08/2021
12:30

First Wt 0 Kg
Tare Wt 10,240 Kg 0
Second Wt 24,940 Kg 0029068

Nett Wt 14700 Kg

DESCRIPTION OF GOODS

GT LANDSCAPE SOIL
(BS3682 2015)

CUSTOMER

GREEN TECH LTD
Cust Order No
413849
Source

DESTINATION

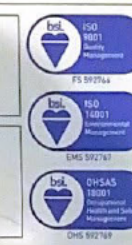
EX WORKS

RECEIVED BY:

SIGNATURE

PRINT NAME

DATE



Darrington Quarries Limited, registered in England and Wales No. 0270458, subsidiary company of FCC Environment UK Limited, No. 2802474
with registered office at 600 Hudders Lane, Northampton Business Park, Northampton NN4 7YS
AGGREGATES LEVY REGD NO. 10966 0000

833202



DARRINGTON QUARRIES LTD

Darrington Leys, Cridding Stubbs, Knottingley, Yorkshire WF11 0AH
Telephone: (01977) 672368 Fax: (01977) 673246
www.fccenvironment.co.uk/darrington

PLACE OF LOADING: CUSWORTH H

SIGNATURE: [Signature]

HAULIER: WHITEHEAD

VEHICLE REGN. No: YD18AWR

DRIVER'S SIGNATURE: JOHN BRODIE

Ticket No: 4145110

19/08/2021 09:50

First Wt: 0 kg
Tare Wt: 13,080 kg
Second Wt: 31,349 kg
Net Wt: 18269 kg

DESCRIPTION OF GOODS: GT LANDSCAPE SOIL (BS3882 2015)

CUSTOMER: GREEN TECH LTD
Cust Order No: 413849
Source

DESTINATION: EX WORKS

RECEIVED BY: [Signature]

SIGNATURE: [Signature]

PRINT NAME: [Redacted]

DATE: [Redacted]

ISO 14001
ISO 14001
OHSAS 18001
OHSAS 18001

Darrington Quarries Limited, registered in England and Wales No. 027460, subsidiary company of FCC Environment (UK) Limited, No. 2002410
Both registered at 100, Station Road, Southborough, Kent, TN40 2JL
AGGREGATES LEVY REGD NO: 10866 0000

833025



DARRINGTON QUARRIES LTD

Darrington Leys, Cridding Stubbs, Knottingley, Yorkshire WF11 0AH
Telephone: (01977) 672368 Fax: (01977) 673246
www.fccenvironment.co.uk/darrington

PLACE OF LOADING: CUSWORTH H

SIGNATURE: [Signature]

HAULIER: WHITEHEAD

VEHICLE REGN. No: YD18AWR

DRIVER'S SIGNATURE: JOHN BRODIE

Ticket No: 4145090

19/08/2021 07:36

First Wt: 0 kg
Tare Wt: 13,080 kg
Second Wt: 31,300 kg
Net Wt: 18220 kg

DESCRIPTION OF GOODS: GT LANDSCAPE SOIL (BS3882 2015)

CUSTOMER: GREEN TECH LTD
Cust Order No: 413849
Source

DESTINATION: EX WORKS

RECEIVED BY: [Signature]

SIGNATURE: [Signature]

PRINT NAME: [Redacted]

DATE: [Redacted]

ISO 14001
ISO 14001
OHSAS 18001
OHSAS 18001

Darrington Quarries Limited, registered in England and Wales No. 027460, subsidiary company of FCC Environment (UK) Limited, No. 2002410
Both registered at 100, Station Road, Southborough, Kent, TN40 2JL
AGGREGATES LEVY REGD NO: 10866 0000

832994



DARRINGTON QUARRIES LTD

Darrington Leys, Cridding Stubbs, Knottingley, Yorkshire WF11 0AH
Telephone: (01977) 672368 Fax: (01977) 673246
www.fccenvironment.co.uk/darrington

PLACE OF LOADING: CUSWORTH H

SIGNATURE: [Signature]

HAULIER: WHITEHEAD

VEHICLE REGN. No: YD18AWR

DRIVER'S SIGNATURE: JOHN BRODIE

Ticket No: 4145218

19/08/2021 11:44

First Wt: 0 kg
Tare Wt: 13,120 kg
Second Wt: 31,420 kg
Net Wt: 18300 kg

DESCRIPTION OF GOODS: GT LANDSCAPE SOIL (BS3882 2015)

CUSTOMER: GREEN TECH LTD
Cust Order No: 413849
Source

DESTINATION: EX WORKS

RECEIVED BY: [Signature]

SIGNATURE: [Signature]

PRINT NAME: [Redacted]

DATE: [Redacted]

ISO 14001
ISO 14001
OHSAS 18001
OHSAS 18001

Darrington Quarries Limited, registered in England and Wales No. 027460, subsidiary company of FCC Environment (UK) Limited, No. 2002410
Both registered at 100, Station Road, Southborough, Kent, TN40 2JL
AGGREGATES LEVY REGD NO: 10866 0000

833133



DARRINGTON QUARRIES LTD

Darrington Leys, Cridding Stubbs, Knottingley, Yorkshire WF11 0AH
Telephone: (01977) 672368 Fax: (01977) 673246
www.fccenvironment.co.uk/darrington

PLACE OF LOADING: CUSWORTH H

SIGNATURE: [Signature]

HAULIER: WHITEHEAD

VEHICLE REGN. No: YD18AWR

DRIVER'S SIGNATURE: JOHN BRODIE

Ticket No: 4145187

19/08/2021 07:55

First Wt: 0 kg
Tare Wt: 13,120 kg
Second Wt: 31,320 kg
Net Wt: 18200 kg

DESCRIPTION OF GOODS: GT LANDSCAPE SOIL (BS3882 2015)

CUSTOMER: GREEN TECH LTD
Cust Order No: 413849
Source

DESTINATION: EX WORKS

RECEIVED BY: [Signature]

SIGNATURE: [Signature]

PRINT NAME: [Redacted]

DATE: [Redacted]

ISO 14001
ISO 14001
OHSAS 18001
OHSAS 18001

Darrington Quarries Limited, registered in England and Wales No. 027460, subsidiary company of FCC Environment (UK) Limited, No. 2002410
Both registered at 100, Station Road, Southborough, Kent, TN40 2JL
AGGREGATES LEVY REGD NO: 10866 0000

833102



DARRINGTON QUARRIES LTD

Darrington Leys, Cridling Stubbs, Knottingley, Yorkshire WF11 0AH

Telephone: (01977) 672368 Fax: (01977) 673246

www.fccenvironment.co.uk/darrington

Ticket No. 4145631

PLACE OF LOADING

CUSWORTH H

SIGNATURE

0

26/08/2021

09:34

HAULIER

WHITEHEAD

VEHICLE
REG'N. No.

FX13CWE

First Wt

0 Kg

Tare Wt

10,220 Kg

0

Second Wt

25,240 Kg

0029419

DRIVER'S SIGNATURE

ADRIAN DARBY

Nett Wt

15020 Kg

DESCRIPTION OF GOODS

GT LANDSCAPE SOIL
(BS3882:2015)

CUSTOMER

GREEN TECH LTD

Dist Order No

414003

Source

DESTINATION

EX WORKS

RECEIVED BY:

SIGNATURE

PRINT NAME

DATE



FS 592766



EMS 592767



OHS 592769

Darrington Quarries Limited, registered in England and Wales No. 0579409, subsidiary company of FCC Environment (UK) Limited, No. 2902416 both registered at 900 Pavilion Drive, Northampton Business Park, Northampton NN4 7RG.

AGGREGATES LEVY REGD NO. 10866 0000

835050

P & A WHITEHEAD LTD
TIPPER HIRE
Tel: 07788 913591



Customer <i>creative rev</i>			
Delivery Address <i>laund Rd</i>			
Haulage Contractor <i>PeA</i>			
Vehicle Reg No <i>Fx13</i>	Time Loaded:		
Trailer No	Time Delivered:		
Driver <i>A.OI</i>	Date Delivered <i>23/8/21</i>		
Material Description <i>greentech landscape top soil</i>	Quarry/Pit ticket no:		
Loading Address <i>Dorington</i>	GROSS	Tonne	Kilos
	TARE		
	NETT	<i>1392</i>	
Signed on behalf of [Redacted]			
Print Name [Redacted] Job Title:			

White copy: Customer
Yellow copy: Office
Pink copy: Haulier's
Green copy: Book

No: 20952

P & A WHITEHEAD LTD
TIPPER HIRE
Tel: 07788 913591



Customer <i>creative rev</i>			
Delivery Address <i>laund Road</i>			
Haulage Contractor <i>PeA</i>			
Vehicle Reg No <i>Fx13</i>	Time Loaded:		
Trailer No	Time Delivered:		
Driver <i>A.OI</i>	Date Delivered <i>20.8.21</i>		
Material Description <i>Green tech landscape top soil</i>	Quarry/Pit ticket no:		
Loading Address <i>Dorington</i>	GROSS	Tonne	Kilos
	TARE		
	NETT	<i>1304</i>	
Signed on behalf of [Redacted]			
Print Name [Redacted] Job Title:			

White copy: Customer
Yellow copy: Office
Pink copy: Haulier's
Green copy: Book

No: 20954

P & A WHITEHEAD LTD
TIPPER HIRE
Tel: 07788 913591



Customer <i>creative rev</i>			
Delivery Address <i>laund Rd</i>			
Haulage Contractor <i>PeA</i>			
Vehicle Reg No <i>Fx13</i>	Time Loaded:		
Trailer No	Time Delivered:		
Driver <i>A.OI</i>	Date Delivered <i>20.8.21</i>		
Material Description <i>greentech landscape top soil</i>	Quarry/Pit ticket no:		
Loading Address <i>Dorington</i>	GROSS	Tonne	Kilos
	TARE		
	NETT	<i>1492</i>	
Signed on behalf of [Redacted]			
Print Name [Redacted] Job Title:			

White copy: Customer
Yellow copy: Office
Pink copy: Haulier's
Green copy: Book

No: 20953

P & A WHITEHEAD LTD
TIPPER HIRE
Tel: 07788 913591



Customer <i>creative rev</i>			
Delivery Address <i>laund Road</i>			
Haulage Contractor <i>PeA</i>			
Vehicle Reg No <i>Fx13</i>	Time Loaded:		
Trailer No	Time Delivered:		
Driver <i>A.OI</i>	Date Delivered <i>20.8.21</i>		
Material Description <i>green tech landscape top soil</i>	Quarry/Pit ticket no:		
Loading Address <i>Dorington</i>	GROSS	Tonne	Kilos
	TARE		
	NETT	<i>1477</i>	
Signed on behalf of [Redacted]			
Print Name [Redacted] Job Title:			

White copy: Customer
Yellow copy: Office
Pink copy: Haulier's
Green copy: Book

No: 20955

P & A WHITEHEAD LTD
TIPPER HIRE
Tel: 07788 913591



Customer <i>creative rev</i>			
Delivery Address <i>laund Rd</i>			
Haulage Contractor <i>PeA</i>			
Vehicle Reg No <i>Y019</i>	Time Loaded:		
Trailer No	Time Delivered:		
Driver <i>John</i>	Date Delivered <i>18.8.21</i>		
Material Description <i>Green tech landscape top soil</i>	Quarry/Pit ticket no:		
Loading Address <i>Dorington</i>	GROSS	Tonne	Kilos
	TARE		
	NETT	<i>1824</i>	
Signed on behalf of [Redacted]			
Print Name [Redacted] Job Title:			

White copy: Customer
Yellow copy: Office
Pink copy: Haulier's
Green copy: Book

No: 20957

P & A WHITEHEAD LTD
TIPPER HIRE
Tel: 07788 913591



Customer <i>creative rev</i>			
Delivery Address <i>laund Rd</i>			
Haulage Contractor <i>PeA</i>			
Vehicle Reg No <i>Y019</i>	Time Loaded:		
Trailer No	Time Delivered:		
Driver <i>John</i>	Date Delivered <i>18.8.21</i>		
Material Description <i>landscape greentech top soil</i>	Quarry/Pit ticket no:		
Loading Address <i>Dorington</i>	GROSS	Tonne	Kilos
	TARE		
	NETT	<i>1328</i>	
Signed on behalf of [Redacted]			
Print Name [Redacted] Job Title:			

White copy: Customer
Yellow copy: Office
Pink copy: Haulier's
Green copy: Book

No: 20956

P & A WHITEHEAD LTD
TIPPER HIRE
Tel: 07788 913591



Customer <i>creative Dev</i>			
Delivery Address <i>land Road</i>			
Haulage Contractor <i>PeA</i>			
Vehicle Reg No. <i>Y019</i>	Time Loaded:		
Trailer No.	Time Delivered:		
Driver: <i>John</i>	Date Delivered <i>19.8.21</i>		
Material Description: <i>green tech landscape Topsoil</i>		Quarry/Pit ticket no:	
Loading Address <i>Darrington</i>	GROSS	Tonne	Kilos
	TARE		
	NETT	<i>18</i>	<i>20</i>
Signed on <i>[Redacted]</i>			
Print Name <i>[Redacted]</i>		Job Title	

White copy: Customer
Yellow copy: Office
Pink copy: Haulier's
Green copy: Book

No: 20959

P & A WHITEHEAD LTD
TIPPER HIRE
Tel: 07788 913591



Customer <i>creative Dev</i>			
Delivery Address <i>land Rd</i>			
Haulage Contractor <i>PeA</i>			
Vehicle Reg No. <i>Y019</i>	Time Loaded:		
Trailer No.	Time Delivered:		
Driver: <i>John</i>	Date Delivered <i>19.8.21</i>		
Material Description: <i>green tech landscape Topsoil</i>		Quarry/Pit ticket no:	
Loading Address <i>Darrington</i>	GROSS	Tonne	Kilos
	TARE		
	NETT	<i>18</i>	<i>30</i>
Signed on <i>[Redacted]</i>			
Print Name <i>[Redacted]</i>		Job Title	

White copy: Customer
Yellow copy: Office
Pink copy: Haulier's
Green copy: Book

No: 20958

P & A WHITEHEAD LTD
TIPPER HIRE
Tel: 07788 913591



Customer <i>creative Dev</i>			
Delivery Address <i>land Rd</i>			
Haulage Contractor <i>PeA</i>			
Vehicle Reg No. <i>FX13</i>	Time Loaded:		
Trailer No.	Time Delivered:		
Driver: <i>AID</i>	Date Delivered <i>26.8.21</i>		
Material Description: <i>green tech landscape Topsoil</i>		Quarry/Pit ticket no:	
Loading Address <i>Darrington</i>	GROSS	Tonne	Kilos
	TARE		
	NETT	<i>15</i>	<i>02</i>
Signed on <i>[Redacted]</i>			
Print Name <i>[Redacted]</i>		Job Title	

White copy: Customer
Yellow copy: Office
Pink copy: Haulier's
Green copy: Book

No: 20960

PHOTOGRAPHS

SUB SURFACE SITE INVESTIGATION SPECIALISTS, GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS 3 Peel Street, Preston, Lancashire, PR2 2QS. Tel: (01772) 561135 Fax: (01772) 204907		Photographs	
Site: PLOTS 2,3,4 LAUND ROAD, HUDDERSFIELD		Job Number: NE3941D	
Client: CREATIVE DEVELOPMENTS (HUDDERSFIELD) LIMITED		Sheet: 1/3	
Engineer: NORTHERN DESIGN PARTNERSHIP			

TRIAL PIT PHOTOGRAPHS

HD1



S S SUB SURFACE SITE INVESTIGATION SPECIALISTS, GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS 3 Peel Street, Preston, Lancashire, PR2 2QS. Tel: (01772) 561135 Fax: (01772) 204907		Photographs	
Site: PLOTS 2,3,4 LAUND ROAD, HUDDERSFIELD		Job Number: NE3941D	
Client: CREATIVE DEVELOPMENTS (HUDDERSFIELD) LIMITED		Sheet: 2/2	
Engineer: NORTHERN DESIGN PARTNERSHIP			

TRIAL PIT PHOTOGRAPHS

HD2



S S SUB SURFACE SITE INVESTIGATION SPECIALISTS, GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS 3 Peel Street, Preston, Lancashire, PR2 2QS. Tel: (01772) 561135 Fax: (01772) 204907		Photographs	
Site: PLOTS 2,3,4 LAUND ROAD, HUDDERSFIELD		Job Number: NE3941D	
Client: CREATIVE DEVELOPMENTS (HUDDERSFIELD) LIMITED		Sheet: 3/3	
Engineer: NORTHERN DESIGN PARTNERSHIP			

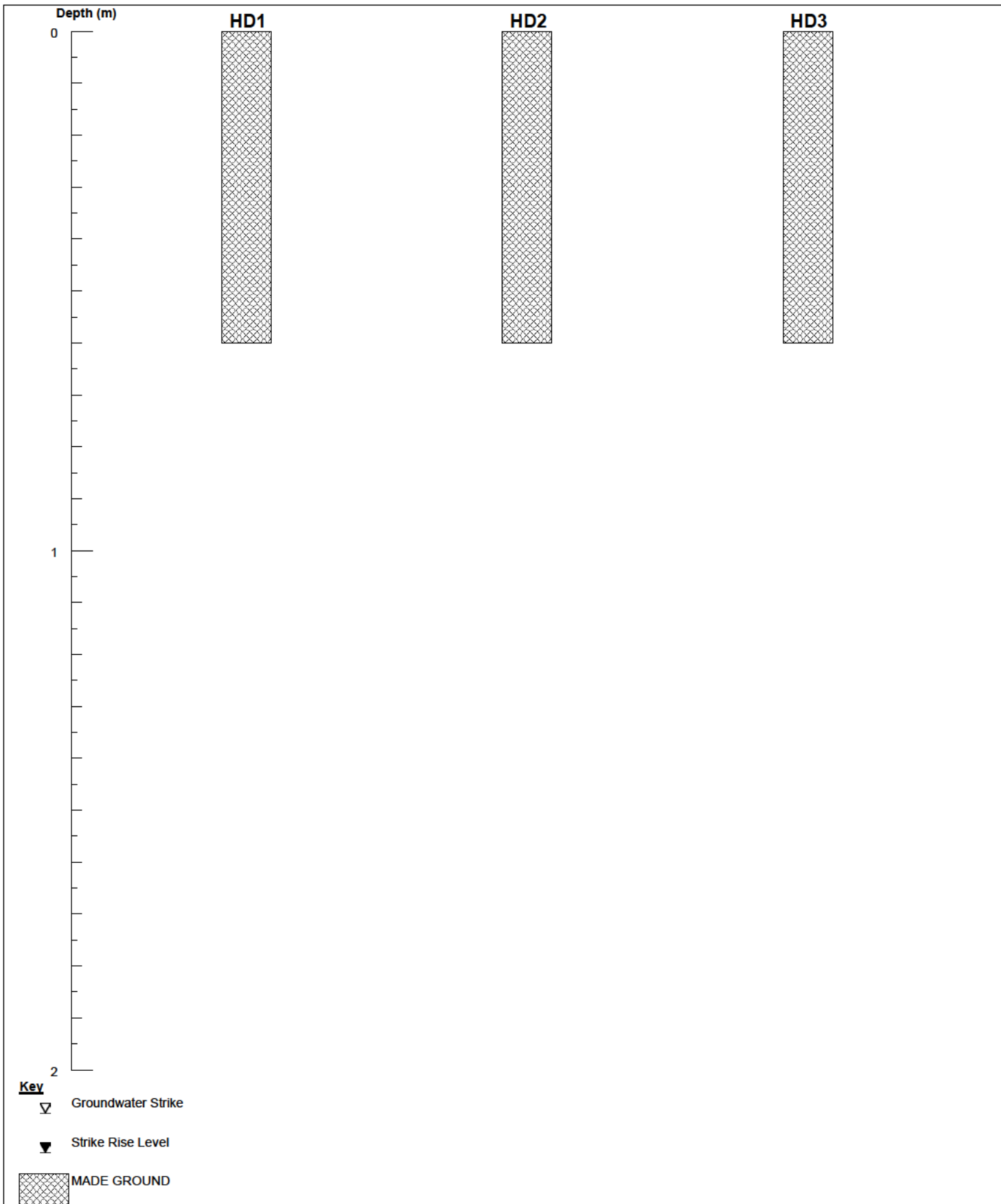
TRIAL PIT PHOTOGRAPHS

HD3



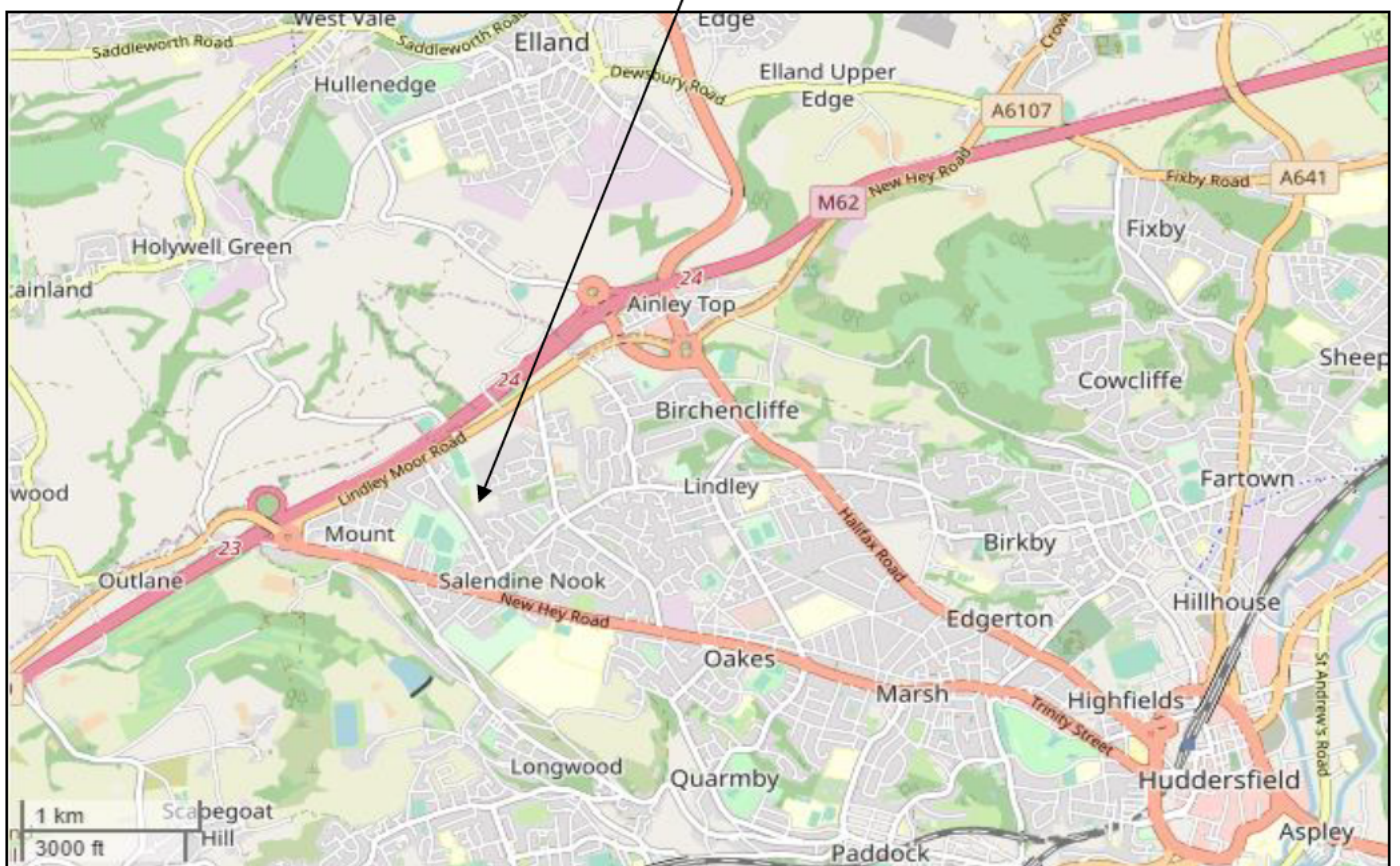
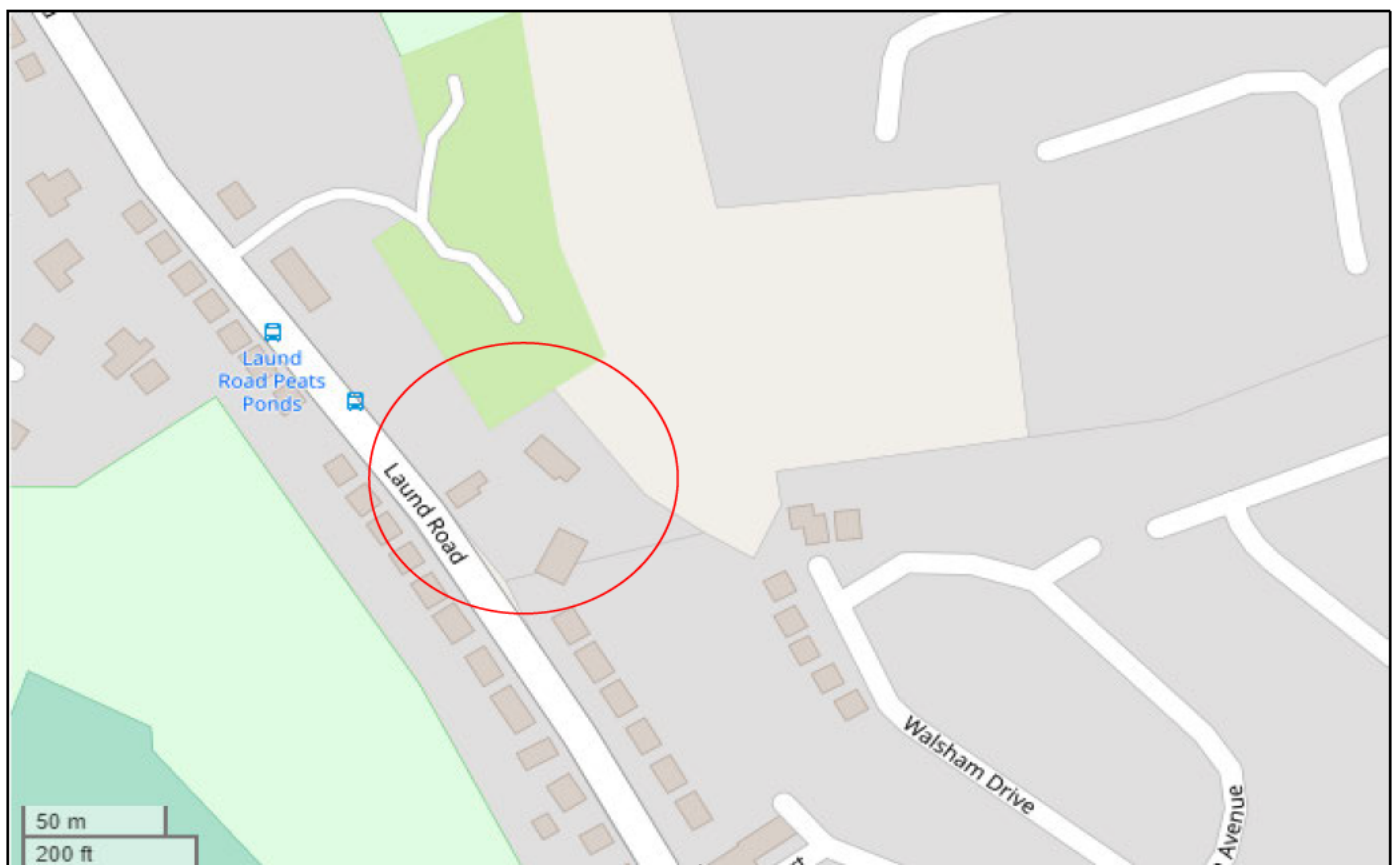
HAND DUG TRIAL PIT RECORD SHEETS

S S SUB SURFACE SITE INVESTIGATION SPECIALISTS, GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS 3 Peel Street, Preston, Lancashire, PR2 2QS. Tel: (01772) 561135 Fax: (01772) 204907						Site PLOTS 2, 3, 4 LAUND ROAD, SALENDINE NOOK, HUDDERSFIELD		Trial Pit Number HD1	
Excavation Method HAND DUG		Dimensions		Ground Level (mOD)		Client CREATIVE DEVELOPMENTS (HUDDERSFIELD) LTD		Job Number NE3941D	
		Location AS PLAN		Dates 25/08/2021		Engineer NORTHERN DESIGN PARTNERSHIP		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	
0.20-0.50	B		25/08/2021:DRY		(0.60) 0.60	MADE GROUND: brown slightly gravelly sandy topsoil (imported).			
						Complete at 0.60m			
Plan 						Remarks Pit sides remained vertical and stable. No groundwater encountered. On completion backfilled with arisings.			
						Scale (approx) 1:25	Logged By DS/SJ	Figure No. NE3941D.HD1	



SS SUB SURFACE SITE INVESTIGATION SPECIALISTS, GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS 3 Peel Street, Preston, Lancashire, PR2 2QS. Tel: (01772) 561135 Fax: (01772) 204907	Nominal Section			
Site PLOTS 2, 3, 4 LAUND ROAD, SALENDINE NOOK, HUDDERSFIELD	Date Drawn 15/09/2021	Date Checked	Sheet 1/1	Job Number NE3941D
Client CREATIVE DEVELOPMENTS (HUDDERSFIELD) LTD	Drawn By	Checked By	Scale 1:10[V]	Figure No. NE4941D.1

FIGURES



SUB SURFACE

SITE INVESTIGATION AND SPECIALIST GEOTECHNICAL CONSULTANTS
3 Peel Street, Preston, PR2 2QS. Tel. (01772) 561135 Fax (01772) 204907

Site

PLOTS 2 TO 4, LAUND ROAD, SALENDINE NOOK,
HUDDERSFIELD

Client

CREATIVE DEVELOPMENTS (HUDDERSFIELD) LIMITED

Site Location

Date Drawn

15/09/2021

Date Checked

Orientation



Job No.

NE3941D

Drawn By

DJ

Checked By

Scale

As Shown

Figure No.

1

