



Geo-Environmental

INTERIM VERIFICATION REPORT (SOIL COVER SYSTEM)

for the site at

PLOTS 36-39, CORNFIELD CLOSE,

LITTLEHAMPTON,

WEST SUSSEX, BN17 6LD

on behalf of

THAKEHAM CLIENT LTD



Report:	INTERIM VERIFICATION REPORT (SOIL COVER SYSTEM)
Site:	PLOTS 36-39, CORNFIELD CLOSE, LITTLEHAM, WEST SUSSEX, BN17 6LG
Client:	THAKEHAM CLIENT LTD
Date:	03/03/2021
Reference:	GE18103/INTVR-SOIL/MAR21
Version:	1.0
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**AMENDMENT RECORD**

Revision ref.	Date	Reasons for amendment	Author's initials	Reviewed by	Authorised by
1.0	03/03/2021	First issue Soil Cover Validation for Plots 36-39 (Validation for Plots 1-15 (gas protection measures, soil cover system and groundwater), have previously been issued under separate cover, report ref: GE18103/VR/JAN21, and Validation for Plots 16-49 (gas protection measures) issued under report ref: GE18103/INTVR/FEB21	FG	LL	SA



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1.0 INTRODUCTION

1.1 General

Following several phases of investigation and assessment for the site, as reported in the Phase I desk study (ref. GE16903-DSR-DEC17) baseline ground investigation (ref. GE16903-BGIR-JAN18) and further Phase II intrusive investigation (ref. GE17106- GAR/AP01/231018) undertaken and reported by Geo-Environmental Services Limited, together with subsequent development of a Remediation Strategy and Verification Plan (RSVP), referenced GE17106-RSVPv1.2-GE-NOV19 and Water Quality Monitoring Plan (WQMP), referenced GE18103/WQMP/NOV19, Geo-Environmental was instructed by Thakeham Client Ltd to prepare a Verification Report to compile the relevant information in relation to the residential development for Plots 36-39, Cornfield Close, Littlehampton, West Sussex, BN17 6LG, herein referred to as 'the site' (see Figure 1). This report relates specifically to the installation and validation of the soil cover system within Plots 36-39. At the time of reporting private gardens and areas of soft landscaping of further plots on site were not ready for final validation inspections and this, together with gas validation of further plots, will be validated within a separate verification (or updated) report in due course.

Previous phases of validation works onsite has already been undertaken and reported for the site under GE18103/VR/JAN21, which presented the validation of ground gas protection measures and soil cover systems associated with Plots 1-15 and groundwater analysis and controlled water requirements for the whole site, and GE18103/INTVR/FEB21, which presented the validation of ground gas protection measures for Plots 16-49 and Block A only. This report does not duplicate the validation information already presented within these reports, but instead reports on works subsequently undertaken in relation to the installation of a soil cover system in Plots 36-39 finished in February 2021.

This report sets out the works undertaken to date to provide independent verification of the risk mitigation measures incorporated into the development to protect the development and end users thereof. This report provides final validation for works undertaken and independent inspection in relation to Plots 36-39 only with respect to the installed soil cover system.

1.2 Objectives

A desk study and ground investigation undertaken by Geo-Environmental identified the presence of potential hazards and through a risk assessment process a series of pollutant linkages were identified which require action to mitigate or otherwise reduce the risk. The Remediation Strategy and Verification Plan (RSVP) sets out the proposed remedial works to be undertaken on the subject site to support its development for a proposed residential end use. The Water Quality Monitoring Plan presents the monitoring works that would be undertaken prior to, during and following the intrusive element of development works (cut and fill and piling works).

This Verification Report (VR) presents the details and findings of inspection visits undertaken throughout the construction period by Geo-Environmental and/or to compile data provided by the Client with respect for Plots 36-39 in order to demonstrate that the soil risk mitigation measures were implemented within these Plots only.

1.3 Planning Permission

It is understood that a planning application has been approved for the site by Arun District Council under Planning Reference LU/330/18/PL. The following pre-occupation planning conditions have been attached to the application which relate to the validation of land contamination in relation the development. Where conditions required the submission and agreement of works pre-commencement it is understood that those elements of the conditions have been completed and agreed.



Condition 9:

Within 3 months of the start of the development, the Developer shall agree a timetable for submission of periodic verification reports to demonstrate the completion of works set out in the approved remediation strategy and the effectiveness of the remediation. The reports shall include a maintenance plan in respect of contamination, including a timetable of monitoring and shall be submitted to, and approved in writing, by the local planning authority. The report shall include results of sampling and monitoring carried out in accordance with the approved verification plan to demonstrate that the site remediation criteria have been met. The development shall proceed in accordance with approved details.

Reason: To ensure that the site does not pose any further risk to human health or the water environment by demonstrating that the requirements of the approved verification plan have been met and that remediation of the site is complete in accordance with Arun Local Plan policies QE SP1 and QE DM4

Condition 10:

If during development, contamination not previously identified, is found to be present at the site then no further development (unless otherwise agreed in writing with the Local Planning Authority) shall be carried out until a remediation strategy detailing how this contamination will be dealt with has been submitted to and approved in writing by the Local Planning Authority. The remediation strategy shall be implemented as approved.

Reason: To ensure that the development complies with approved details in the interests of protection of the environment and prevention of harm to human health in accordance with Arun Local Plan policies QE SP1 and QE DM4.

Condition 11:

Piling & investigation boreholes using penetrative methods shall not be carried out other than with the written consent of the Local Planning Authority. The development shall be carried out and completed in accordance with details so approved.

Reason: To prevent pollution of groundwater in accordance with Arun Local Plan policy W DM1.



2.0 BACKGROUND

This Validation Report has been produced in order to demonstrate that the works required and presented within the Remediation Strategy and Verification Plan (RSVP) and Water Quality Management Plan (WQMP) have been carried out. The RSVP and WQMP for the site were developed following several phases of investigation works for the site, including a Phase I desk study (ref. 16903-DSR-DEC17) baseline ground investigation (ref. 16903-BGIR-JAN18) and further Phase II intrusive investigation (ref. GE17106- GAR/AP01/231018) undertaken and reported by Geo-Environmental Services Limited. Whilst a summary of these reports is presented below, reference should be made to the full reports for further details.

2.1 Proposed Site Use

The proposed development comprised the construction of 77No. residential units with private gardens, soft landscaping, amenity space, parking, roadways and associated infrastructure.

2.2 Investigation and Assessment

A summary of the findings of previous investigations and reports is presented below:

- The site was most recently utilised as a caravan park comprising caravan plots and hardstanding from a former wash block. The northern most portion of the site comprised accommodation with the southern portion of the site recreational space;
- The ground conditions beneath the site generally comprised a thickness of Made Ground (depths up to 2.90m bgl) overlying the River Terrace Deposits over the Lewes Nodular Chalk Formation at depth;
- The encountered Made Ground materials were found to generally comprise landfill type material of mixed composition comprising sandy clay and silty sand with brick, glass, plastics, metal, china, ash, coal, concrete, black organic matter, shoes, fabric, timber and flint gravel;
- River Terraced Deposits were found to underlie the Made Ground and was generally found to comprise medium dense orange-brown sandy clay becoming orange brown sand with flint gravel with slight traces of chalk at depth.
- Groundwater was encountered within boreholes between depths of 7.50m and 9.00m bgl during the intrusive investigation works. Return monitoring between 28th August 2018 and 19th October 2018 encountered groundwater between depths of 6.00m and 7.10m bgl.
- Thirty-four soil samples were submitted for analysis of a comprehensive suite of commonly occurring contaminants augmented with speciated hydrocarbon analysis and asbestos screening. Nine of these samples were used for leachate testing. Ten additional samples were analysed for VOCs, SVOCs, PCBs and ammoniacal nitrogen. A further ten samples were analysed for Waste Acceptance Criteria tests.
- The testing showed that near surface soils were impacted by Arsenic, Lead, PCBs, VOCs, SVOCs and Asbestos.
- Remediation, or risk mitigation measures were recommended to be required to protect end users from the contaminants identified in the Made Ground within private gardens and areas of soft landscaping.
- Groundwater samples were analysed during the monitoring visits and were tested for a comprehensive suite of commonly occurring contaminants, VOCs, SVOCs, BOD, COD, electrical conductivity, suspended solids and PCBs.
- Groundwater testing showed isolated elevated concentrations of Selenium, PAHs and Boron within the groundwater.
- Based on the testing results and the development proposals to include the introduction of 50% hardcover (houses/roads etc.), together with the excavation of significant volumes of the Made Ground material to accommodate the development, it was considered that the proposed development would improve the site status in respect of the leaching of contaminants from the Made Ground/Landfill materials, and the development would provide a betterment in terms of groundwater contamination.



- It was considered that no specific measures with respect to protection of groundwater are required on the site. A Qualitative Piling Risk Assessment (QPRA), reference GE18103/QPRA/JUL19, dated 10th July 2019 and Water Quality Management Plan (WQMP), reference GE18103/WQMP/NOV19, dated 15th November 2019 were also undertaken for the site in relation to the proposed foundation solution to be utilised on the site.
- Ten cable percussive boreholes were installed with two monitoring standpipes within each location (BH101-BH110) during the intrusive investigation works. Spot monitoring was undertaken on a single occasion within each location. Continuous gas monitoring was undertaken within ten gas monitoring standpipes (BH101-BH110) for a period of 3 weeks. The monitoring locations were sited within the former landfill area.
- Spot monitoring detected methane at concentrations in the range 0-8.5%, carbon dioxide in the range 0-19.4% and oxygen in the range 0-19.4%. VOCs were detected up to 3.2ppm. Borehole flow rates were only detected within two monitoring standpipes, BH101d and BH102s, and ranged from 0.9l/hr to 3.0l/hr.
- The continuous gas monitoring identified methane in the range 0-6.53%, carbon dioxide in the range 0.52-25.2% and oxygen in the range 0.06-18.53%. Carbon monoxide was detected in the range 0-19.43ppm, hydrogen sulphide in the range 0-3.89ppm and VOCs in the range 0-1.7ppm.
- The gas assessment based on the monitoring data indicated that the sites gassing regime was representative of Characteristic Situation 2/ Amber 2, for which remediation measures were considered necessary.
- A discovery strategy was also developed for the site. Where unexpected conditions or contamination are encountered as part of the works these were to be addressed under the discovery strategy in place for the site.

2.3 Conceptual Site Model

The conceptual site model (CSM) developed as part of the risk assessment identified particular hazards, or potential hazards which were considered to require intervention (remediation) to mitigate the risk of harm.

2.4 Approach for Remediation, Monitoring and Validation

Remediation works were proposed to break the pathways of identified sources of contamination to receptors. The aim of the remediation was not necessarily to remove all contamination from the site but to provide betterment and to reduce the identified risk to an acceptable level with respect to relevant receptors, e.g. human health, the built environment and controlled waters.



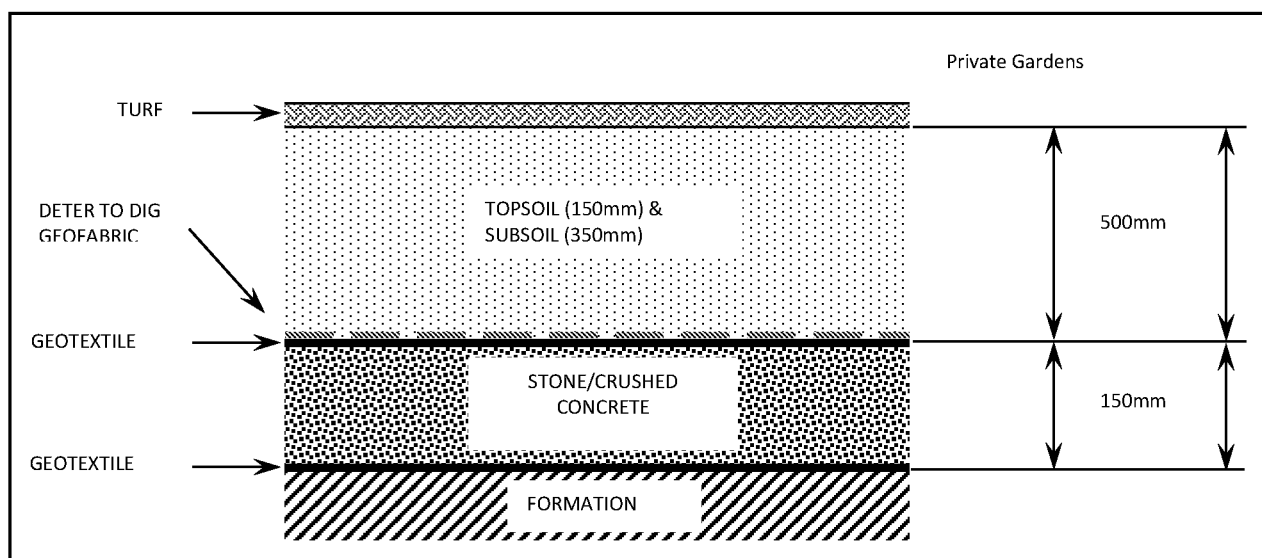
3.0 SOILS

3.1 End Users (Shallow Soils)

With reference to report Ground Appraisal Report for the site GE17106 - GAR/AP01/231018, through a process of statistical analyses on the results of chemical analyses on both deeper and near surface soil samples, it was considered that the near surface soils have been impacted by Lead, Arsenic, PCBs, SVOCs, VOCs and ACMs and remedial measures were deemed necessary to protect end users of the proposed properties from soil contamination within private garden and soft landscaped areas. Furthermore, the physical quality of all near surface soils was deemed unsuitable for inclusion in private gardens due to the presence of concrete, brick, and tarmacadam. In addition, ACMs and asbestos fibres have been identified both visually and within chemical analysis to be present within the Made Ground.

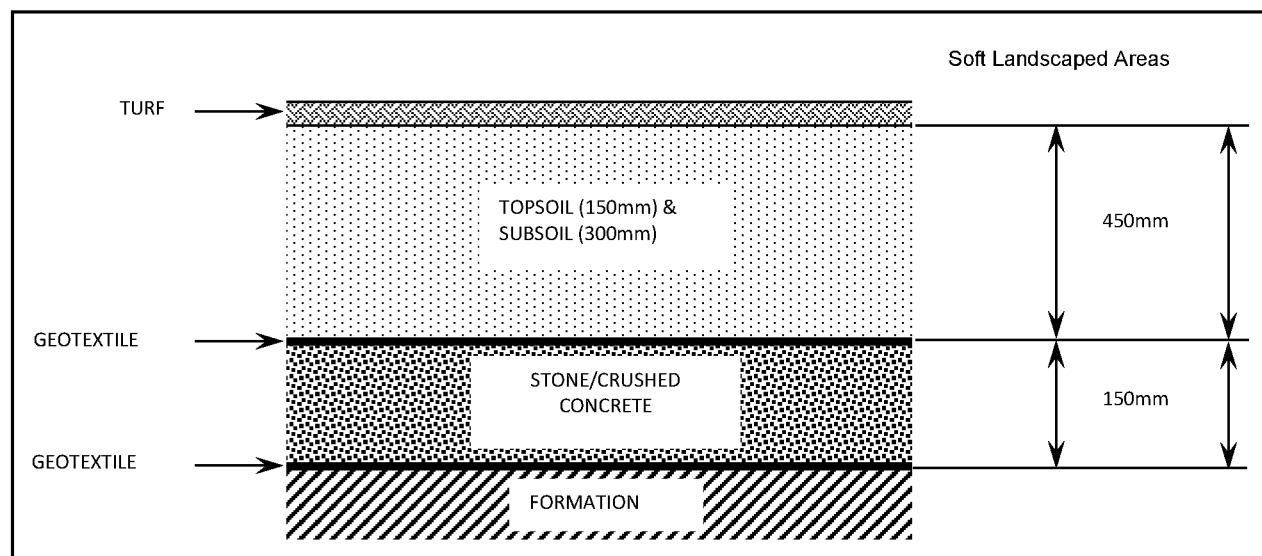
In areas remote from those designated for tree root protection it was recommended that the Made Ground beneath be removed or the site raised to a depth of 650mm and be replaced with chemically and geotechnically suitable material with a high visibility marker geotextile layer such as Terram High-Vis placed at the base between the imported soils and a capillary break layer comprising crushed stone or hardcore of 150mm and underlain by a further layer of Terram.

An example of the cover system for use in private gardens is provided below:





An example of the cover system for use in areas of soft landscaping is provided below:





4.0 IMPORTATION OF MATERIALS

4.1 Topsoil (Plots 36-39)

The chain of custody (COC) delivery certificates for Topsoil materials imported into site for use within Plots 36-39 were provided by to Geo-Environmental by Thakeham (the Client) and/or Bell (the Groundworks Contractor), copies of which are presented within Appendix A. Geochemical analysis was provided for the source site for the Topsoil materials prior to importation to site. A copy of this analysis is also presented in Appendix A. It should be noted that the entirety of the soil cover system within Plots 36-39 was formed of Topsoil.

Further independent sampling and analysis of this materials was undertaken by Geo-Environmental following the placement of this material with the private gardens of Plots 36-39. The results of this independent validation analysis testing are presented in Appendix C detailed and detailed and discussed within Section 5 of this report.



5.0 INSPECTION/VALIDATION (SOILS)

5.1 Validation inspection of Topsoil and sampling of Topsoil (cover system) placement associated within private gardens (Plots 36-39)

The inspection/ validation works of the cover systems installed within the private gardens were undertaken by a Geo-Environmental Engineer on the 11th February 2021. The visual inspection records including site photographs and hand pit logs are presented in Appendix B.

Inspection comprised four independent shallow hand pits (HP201-HP204) which were excavated by the ground workers under the supervision of an engineer from Geo-Environmental within each of the rear garden areas of Plots 36-39, to confirm the presence of a geo-textile type membrane and the thickness of the soil cover system. The location of these hand pits is presented on Figure 3, photographs and site inspection records taken during this inspection visit are presented in Appendix B, which confirm the depth of the installed Topsoil with the cover system installed, along with soil logs of the material encountered. It should be noted that at the point of inspection the Turf and the final 100mm of the soil likely associated with the turf placement had not been laid within any of the rear garden areas at the time of the inspection.

The inspection confirmed that in all inspected areas (hand pits HP201-HP204) a deter-to-dig Geo-textile type membrane was present beneath the Topsoil and the Topsoil was found to be between 600mm and 650mm in thickness within all hand pits. Geo-Environmental were informed by the groundworkers and the Thakeham site managers that a capillary break layer was installed beneath the deter-to-dig membrane, however independent validation of this element was not undertaken by Geo-Environmental. It is understood that Thakeham have photographs of the placement of the capillary break layer but they have not been provided to Geo-Environmental to date.

Two soil samples, referenced HP201 and HP204, were submitted to a UKAS accredited laboratory for testing for a suite of commonly occurring brownfield contaminants including asbestos screening. The laboratory test results are presented within Appendix C.

The results of the analyses were compared to the Suitable for Use (S4UL) Levels for 'private gardens with home-grown produce' (representative of the proposed development end use), which are summarised in Table 5.1 below:

Determinand	Soil Screening Value (mg/kg)	Sample Max. Conc. (mg/kg)	Below Screening Value?
Arsenic	37	16.5	Yes
Benzo(a)pyrene	2.7	0.2	Yes
Beryllium	1.7	<1.0	Yes
Boron (Water Soluble)	290	1.0	Yes
Cadmium	11	<0.5	Yes
Chromium (Total)	130	30.3	Yes
Copper	2400	34.5	Yes
Hexavalent Chromium	6	<0.8	Yes
Lead	200	164	Yes
Mercury (inorganic)	40	<0.5	Yes
Nickel	180	18.6	Yes
Phenols	110	<6	Yes
Selenium	250	3.3	Yes
Total Petroleum Hydrocarbons	110	<1.0	Yes



Vanadium	410	46.7	Yes
Zinc	3700	149	Yes

Table 5.1 Summary of chemical analyses (Plots 36-39 Inspection Visit 11/02/2020)

The results indicated that all of the determinands tested, were below the limiting concentrations set within the Remediation Strategy and Verification Plan (RSVP).

All samples were submitted for asbestos screening and returned with no asbestos fibres identified.

In addition, the results of the speciated hydrocarbon analyses were all returned as either below the laboratory detection limits or below their respective human health screening values for the proposed end use.

A further two validation samples from Plots 36-39, HP202 and HP203, were submitted for a nutrient testing suite. The results of the soils tested were compared to the Table 1 from BS3882:2015 entitled 'Specification for topsoil'.

The results are summarised in Table 5.2 below:

Parameters	Limits for Multipurpose Topsoil	Sample Range	Within acceptable Limits?
<u>Maximum Coarse Fragment Content (%)</u>			
Stones >2mm	30	To Follow	
Stones > 20mm	10		
Stones >50mm	0		
<u>Mass loss on ignition %</u>			
Clay 5% to 20%	3 to 20	3.36 - 4.17	Yes
Soil pH	5.5 to 8.5	7.5 – 8.2	Yes
<u>Plant nutrient content</u>			
Total nitrogen %	>0.15	0.10 - 0.13	Results are <0.15% total for Nitrogen
Extractable phosphate mg/l	16 to 140	66 – 93	
Extractable potassium mg/l	121 to 1500	156 – 206	
Extractable magnesium mg/l	51 to 600	62 – 78	
Carbon:nitrogen ratio	<20:1	19.1 – 19.2	Yes
Electrical conductivity µS-cm	<3300	2370 – 2400	Yes
<u>Potentially Phytotoxic Elements</u>			
Zn mg/kg	<200	75.4 – 149	Yes
Cu mg/kg	<135	19.4 – 34.5	
Ni mg/kg	<75	15.1 – 18.6	
<u>Visible contaminants</u>			
% m/m	<0.5	<0.01	Yes
...of which plastics	<0.25	<0.01	

Table 5.2 Summary of BS8332 Topsoil Analysis (Plots 1-7, Inspection Visit 26/11/2020)

The results demonstrate that the Topsoil soils analysed are in accordance with BS3882:2015 Multipurpose Topsoil, with the exception of a slight shortfall of total Nitrogen. It may therefore be necessary to add a nitrogen based fertiliser to the Topsoil within Plots 36-39 prior to the laying of turf to increase the nitrogen levels to provide a suitable growing medium. However, these soils would still be considered to be suitable for a low fertility topsoil.



6.0 DISCOVERY STRATEGY

A discovery strategy remains in place throughout the development works on this site. Geo-Environmental have not been made aware of any discoveries having been made to date and thus the strategy, as set out in the RSVP did not require enacting. However, the strategy remains in place for the remainder of the development works.

7.0 VERIFICATION

In accordance with the Client's instruction, Geo-Environmental undertook routine and independent inspection during key stages of the construction process. The risk mitigation measures in relation to remedial measures, installation of a soil cover system for Plots 36-39, have been inspected and were considered to comply with the requirements of the design and Remediation Strategy and Verification Plan at the point of inspection. Further plots and validation works for the site will be reported via an updated report or under separate cover in due course.

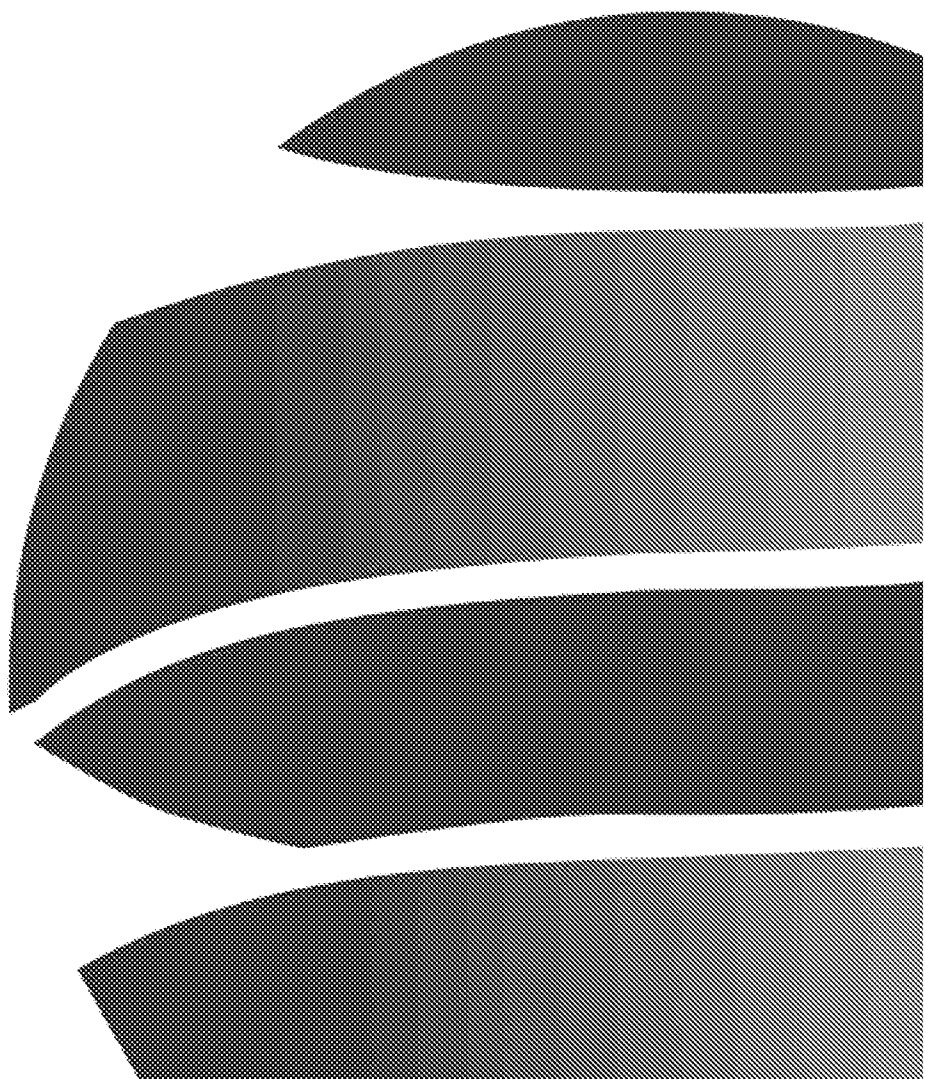
The inspection of the installed soil cover system was undertaken by Geo-Environmental via the excavation of a selected number of hand pits. There was no visual evidence on the site to indicate that the areas remote from the pits undertaken were likely to differ significantly from the areas where the pits had been undertaken for inspection. However, the confirmation of the presence of a geo-textile membrane, the confirmation of depth and composition of subsoil and Topsoil has only been independently verified by Geo-Environmental within these hand pit locations. It has been assumed that these hand pits are representative of the imported soils within the garden areas of Plots 36-39.

Geo-Environmental can only verify the installation of a cover system at the locations and depths inspected at the time of inspections. Geo-Environmental accepts no liability for areas that have not been directly inspected or works that have subsequently been undertaken on the site following our inspection visit(s) that may in any way alter or affect the validation works inspected and reported herein.

The report relates solely to the validation of the soil cover system installed within Plots 36-39. Validation with respect the remaining Plots and other remedial measures will be presented under separate cover in due course.



FIGURES

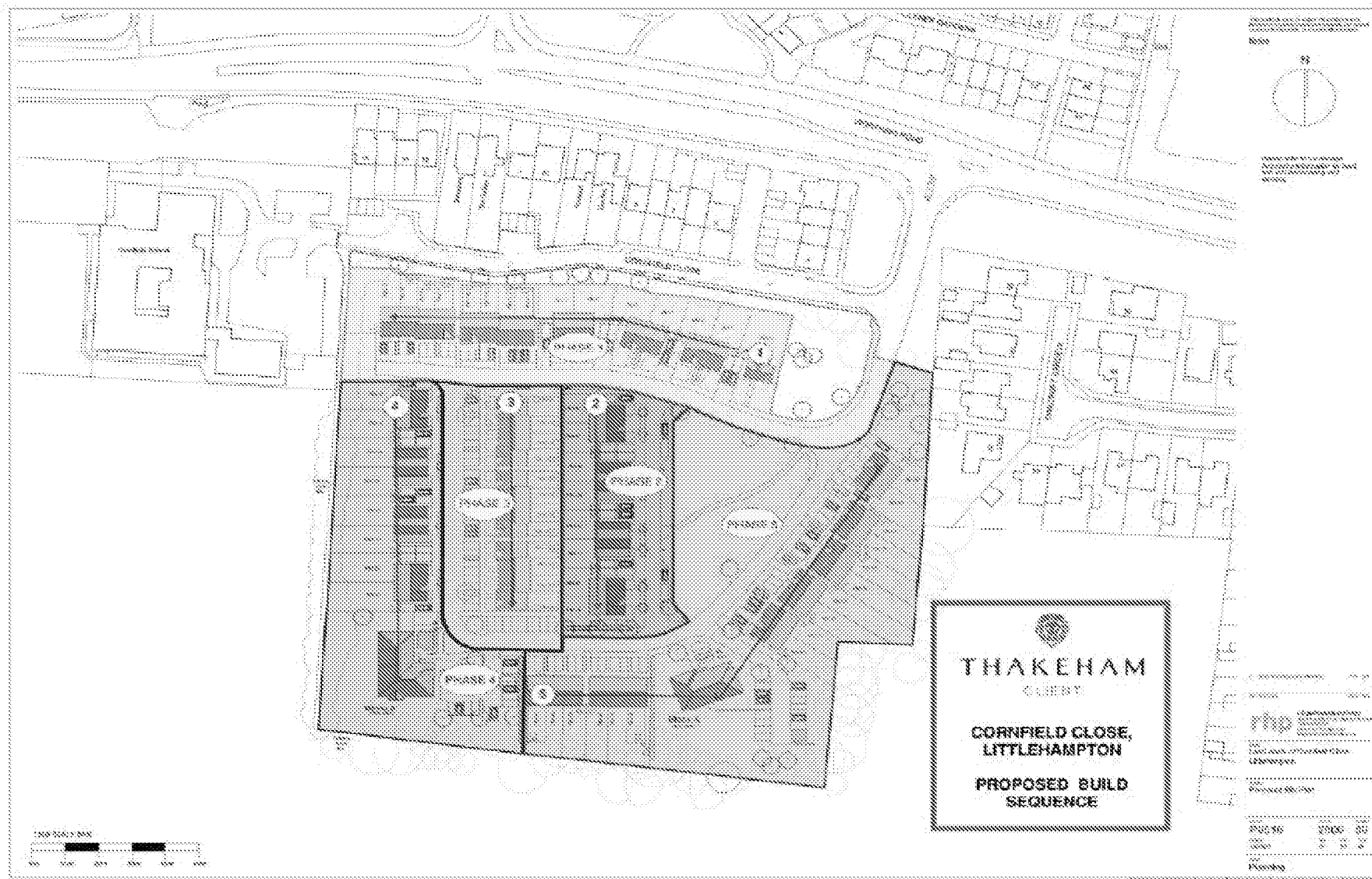




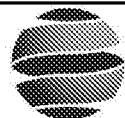
Project:	Cornfield Close, Littlehampton, West Sussex			Title	Site Location Plan	
Client:	Thakeham Homes			Geo-Environmental Services Ltd Unit 7 Danworth Farm, Cuckfield Road Hurstpierpoint, West Sussex BN6 9GL +44(0)1273 832972 www.gesl.net  Geo-Environmental		
Ref No:	GE18103	Revision:	0			
Drawn:	LL	Date:	01/10/2019			
Figure:	1	Scale:	Not To Scale			



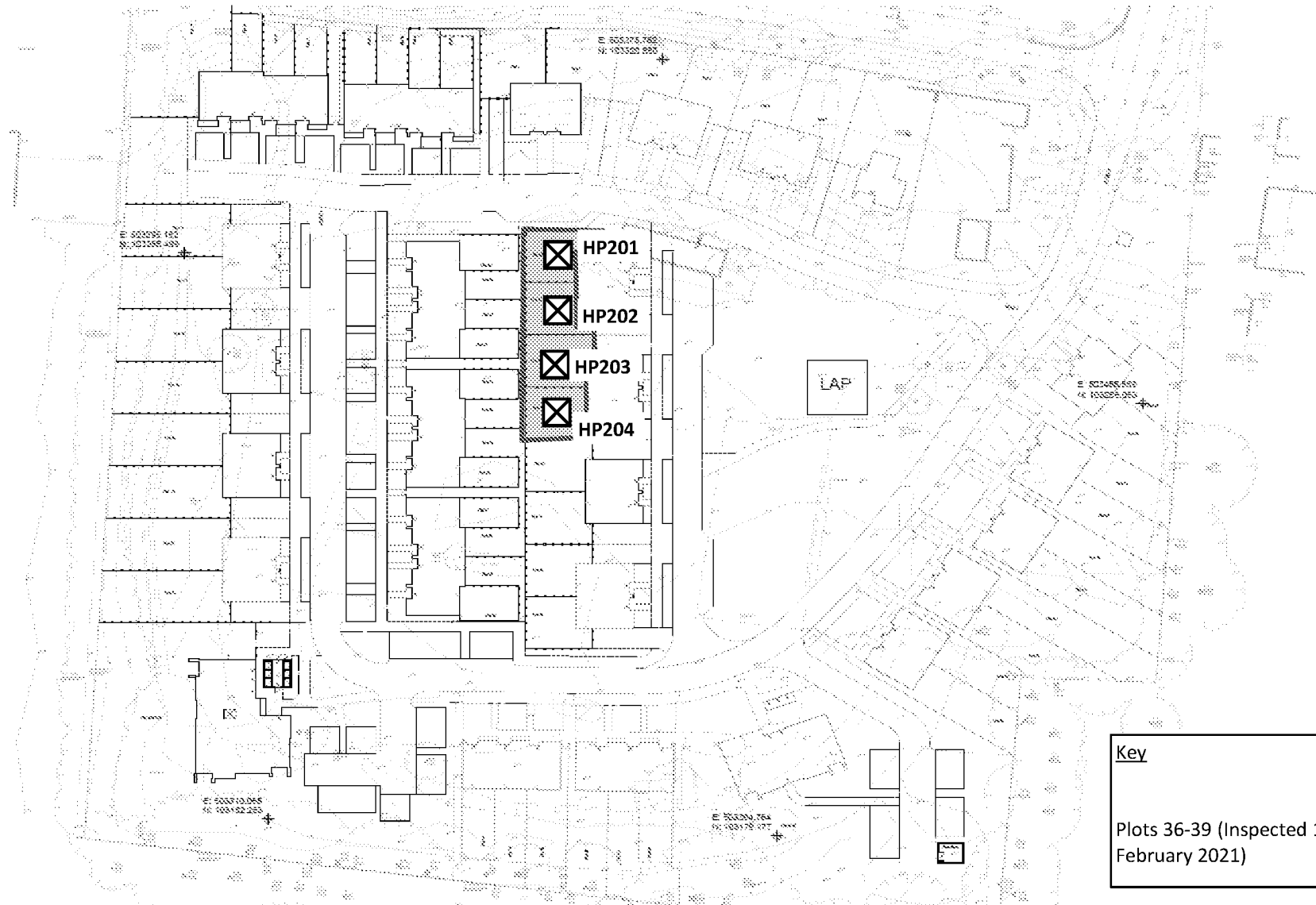
Geo-Environmental



Project: Cornfield Close, Littlehampton, West Sussex		Title	Site Development Phasing Plan (Phase 1-5)	
Client: Thakeham Homes		Geo-Environmental Services Ltd Unit 7 Danworth Farm, Cuckfield Road Hurstpierpoint, West Sussex BN6 9GL +44(0)1273 832972 www.gesl.net		 Geo-Environmental
Ref No: GE18103	Revision: 0			
Drawn: LL	Date: 01/10/2019			
Figure: 2	Scale: Not To Scale			



Geo-Environmental



Key

Plots 36-39 (Inspected 11th February 2021)



Project:	Cornfield Close, Littlehampton, West Sussex			Title	Validation Sample Location Plan (Plots 36-39)		
Client:	Thakeham Homes			Geo-Environmental Services Ltd Unit 7 Danworth Farm, Cuckfield Road Hurstpierpoint, West Sussex BN6 9GL +44(0)1273 832972 www.gesl.net  Geo-Environmental			
Ref No:	GE18103	Revision:	0				
Drawn:	FG	Date:	03/03/2021				
Figure:	3	Scale:	Not To Scale				



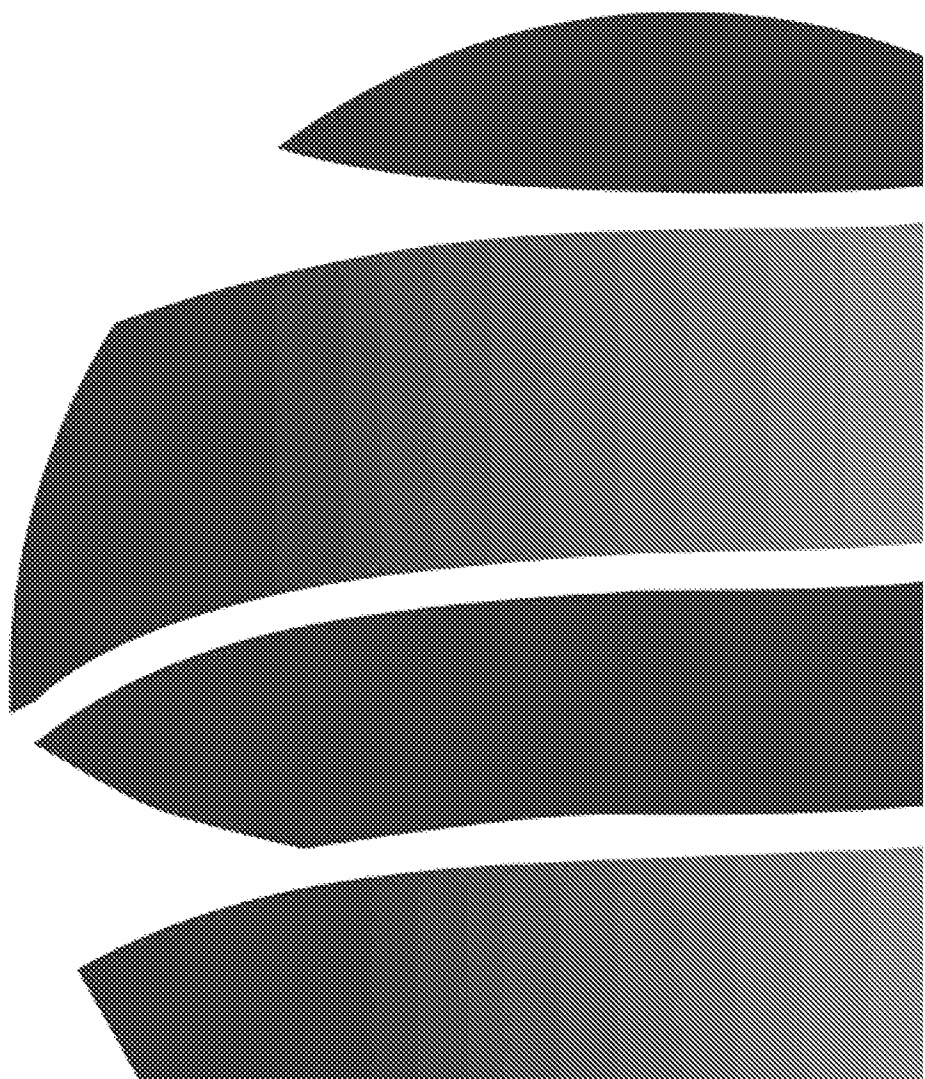
Geo-Environmental

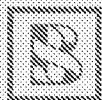


APPENDIX A

Topsoil Delivery Tickets

(provided by client)





BELL & SONS
CONSTRUCTION LIMITED

North Grange Farm House, Wimlands Lane, Faygate,
Nr Horsham, West Sussex BN12 4GP

WTN

08112

DATE

25/11/22

TIME ON SITE

08:00

TIME OFF SITE

04:00

DUTY OF CARE CONTROLLED WASTE/MATERIAL TRANSFER NOTE

SECTION A: DESCRIPTION OF WASTE/MATERIAL

SIC CODE 41201 | 41202

1. DESCRIBE WASTE OR MATERIAL BEING TRANSFERRED (TICK OR STATE OTHER AND ENTER 6 DIGIT EWC)

☐ Soil & Stones
170504

☐ Mixed Construction & Demolition Waste
170904

☐ Concrete
170101

☐ Other

EWC

☐ Hardcore
170107

☐ Description of waste:

☐ Bituminous mixture (tarmac)
170302

☐ CLAIR:

2. HOW IS THE WASTE/MATERIAL CONTAINED (TICK) AND QUANTITY (WRITE IN QUANTITY)

☒ LOOSE: 15 m³

☐ GRAB LOOSE: m³

☐ SKIP: YDS

☐ OTHER (PLEASE DESCRIBE AND GIVE QUANTITY)

SKIP SIZE:

☐ COLLECT ☐ WAIT & LOAD

☐ DELIVER ☐ EXCHANGE

OTHER WORK

☐ DAY WORK

☐ HAULAGE TO

SECTION B: CURRENT HOLDER OF WASTE/MATERIAL (SITE/CUSTOMER/PRODUCER)

COMPANY NAME

THALFORD HOMES

SITE ADDRESS

COULDICHOE CLOSE

LITTLEHAMPTON



BELL & SONS
CONSTRUCTION LIMITED

North Grange Farm House, Winklands Lane, Faygate,
Nr Horsham, West Sussex RH12 4SP

WTN

08001

DATE

TIME ON SITE

TIME OFF SITE

DUTY OF CARE CONTROLLED WASTE/MATERIAL TRANSFER NOTE

SECTION A: DESCRIPTION OF WASTE/MATERIAL

SIC CODE 41201 | 41202

1. DESCRIBE WASTE OR MATERIAL BEING TRANSFERRED (TICK OR STATE OTHER AND ENTER 5 DIGIT EWC)

☐ Soil & Stones
170504

☐ Mixed Construction & Demo Waste
170504

☐ Concrete
170101

☐ Other

EWC

☐ Hardcore
170307

☐ Description of waste

☐ Bituminous mixture (tarmac)
170302

☐ CLARE

2. HOW IS THE WASTE/MATERIAL CONTAINED (TICK) AND QUANTITY (WRITE IN QUANTITY)

☐ LOOSE 1.5 m³

☐ GRAB LOOSE _____ m³

☐ SKIP _____ YDS

☐ OTHER (PLEASE DESCRIBE AND GIVE QUANTITY)

SKIP SIZE _____

OTHER WORK _____

☐ COLLECT ☐ WAIT & LOAD

☐ DAY WORK

☐ DELIVER ☐ EXCHANGE

☐ HAULAGE TO

SECTION B: CURRENT HOLDER OF WASTE/MATERIAL (SITE/CUSTOMER/PRODUCER)

COMPANY NAME _____

SITE ADDRESS _____



BELL & SONS
CONSTRUCTION LIMITED

North Grange Farm House, Wimland Lane, Faygate,
Nr Horsham, West Sussex RH12 4SP

WTN

07649

DATE

TIME ON SITE

TIME OFF SITE

21/1/22
08:00
15:00

DUTY OF CARE CONTROLLED WASTE/MATERIAL TRANSFER NOTE

SECTION A: DESCRIPTION OF WASTE/MATERIAL

SIC CODE 41201 | 41202

1. DESCRIBE WASTE OR MATERIAL BEING TRANSFERRED (TICK OR STATE OTHER AND ENTER 6 DIGIT EWC)

☐ Soil & Stones
170504

☐ Mixed Construction & Demo Waste
170904

☐ Concrete
170101

☐ Other

EWC

☐ Hardcore
170107

☐ Description of waste

☐ Bituminous mixture (tarmac)
170302

☐ CLAIR:

Topsil

2. HOW IS THE WASTE/MATERIAL CONTAINED (TICK) AND QUANTITY (WRITE IN QUANTITY)

☐ LOOSE 1 x 6 m³

☐ GRAB LOOSE m³

☐ SKIP YDS

☐ OTHER (PLEASE DESCRIBE AND GIVE QUANTITY)

SKIP SIZE

☐ COLLECT ☐ WAIT & LOAD

☐ DELIVER ☐ EXCHANGE

OTHER WORK

☐ DAY WORK

☐ HAULAGE TO

SECTION B: CURRENT HOLDER OF WASTE/MATERIAL (SITE/CUSTOMER/PRODUCER)

COMPANY NAME

SITE ADDRESS

Bell & Sons Construction Limited
North Grange Farm House, Wimland Lane, Faygate,
Nr Horsham, West Sussex RH12 4SP



BELL & SONS
CONSTRUCTION LIMITED

North Grange Farm House, Windlands Lane, Faygate,
Nr Horsham, West Sussex RH12 4SP

WTN

08103

DATE

2017/28

TIME ON SITE

TIME OFF SITE

DUTY OF CARE CONTROLLED WASTE/MATERIAL TRANSFER NOTE

SECTION A: DESCRIPTION OF WASTE/MATERIAL

SIC CODE 41201 | 41202

1. DESCRIBE WASTE OR MATERIAL BEING TRANSFERRED (TICK OR STATE OTHER AND ENTER 5 DIGIT EWC)

☐ Soil & Stones
170504

☐ Mixed Construction & Demo Waste
170904

☐ Concrete
170101

☒ Other

EWC

☐ Hardcore
170107

☐ Description of waste:

☐ Bituminous mixture (tarmac)
170302

☐ CLAIR:

2. HOW IS THE WASTE/MATERIAL CONTAINED (TICK) AND QUANTITY (WRITE IN QUANTITY)

☒ LOOSE 15 m³

☐ GRAB LOOSE _____ m³

☐ SKIP _____ YDS

☐ OTHER (PLEASE DESCRIBE AND GIVE QUANTITY)

SKIP SIZE _____

OTHER WORK _____

☐ COLLECT ☐ WAIT & LOAD

☐ DAY WORK

☐ DELIVER ☐ EXCHANGE

☐ HAULAGE TO

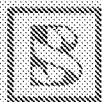
SECTION B: CURRENT HOLDER OF WASTE/MATERIAL (SITE/CUSTOMER/PRODUCER)

COMPANY NAME

THANKS HAD HAD

SITE ADDRESS

WINDLANDS LANE
WINDLANDS FARM



BELL & SONS
CONSTRUCTION LIMITED

North Grange Farm House, Wirrlands Lane, Faygate,
Nr Horsham, West Sussex BN12 4SP

WTN

08102

DATE

TIME ON SITE

TIME OFF SITE

DUTY OF CARE CONTROLLED WASTE/MATERIAL TRANSFER NOTE

SECTION A: DESCRIPTION OF WASTE/MATERIAL

SIC CODE 41201 | 41202

1. DESCRIBE WASTE OR MATERIAL BEING TRANSFERRED (TICK OR STATE OTHER AND ENTER 6 DIGIT EWC)

☐ Soil & Stones
170504

☐ Mixed Construction & Demo Waste
170904

☐ Concrete
170101

☒ Other

EWC

☐ Hardcore
170107

☐ Description of waste:

☐ Bituminous mixture (farmac)
170302

☐ CL:AIRE

2. HOW IS THE WASTE/MATERIAL CONTAINED (TICK) AND QUANTITY (WRITE IN QUANTITY)

☒ LOOSE 5 m³

☐ GRAB LOOSE _____ m³

☐ SKIP _____ YDS

☐ OTHER (PLEASE DESCRIBE AND GIVE QUANTITY)

SKIP SIZE _____

OTHER WORK _____

☐ COLLECT ☐ WAIT & LOAD

☐ DAY WORK

☐ DELIVER ☐ EXCHANGE

☐ HAULAGE TO

SECTION B: CURRENT HOLDER OF WASTE/MATERIAL (SITE/CUSTOMER/PRODUCER)

COMPANY NAME

SITE ADDRESS

LITTLE WIMBORNE



BELL & SONS
CONSTRUCTION LIMITED

North Grange Farm House, Wimlands Lane, Fraygate,
Nr Horsham, West Sussex RH12 4BP

WTN

06242

DATE

17/1/20

TIME ON SITE

TIME OFF SITE

DUTY OF CARE CONTROLLED WASTE/MATERIAL TRANSFER NOTE

SECTION A: DESCRIPTION OF WASTE/MATERIAL

SIC CODE 41201 | 41202

1. DESCRIBE WASTE OR MATERIAL BEING TRANSFERRED (TICK OR STATE OTHER AND ENTER 8 DIGIT EWC)

☐ Soil & Stones
170504

☐ Mixed Construction & Demo Waste
170904

☐ Concrete
170101

☒ Other

EWC

☐ Hardcore
170107

☐ Description of waste:

TOPSOIL

☐ Bituminous mixture (tar/mac)
170302

☐ CL:AIRE

2. HOW IS THE WASTE/MATERIAL CONTAINED (TICK) AND QUANTITY (WRITE IN QUANTITY)

☒ LOOSE 16000 m³

☐ GRAB LOOSE m³

☐ SKIP YDS

☐ OTHER (PLEASE DESCRIBE AND GIVE QUANTITY)

SKIP SIZE

☐ COLLECT ☐ WAIT & LOAD

☐ DELIVER ☐ EXCHANGE

OTHER WORK

☐ DAY WORK

☐ HAULAGE TO

SECTION B: CURRENT HOLDER OF WASTE/MATERIAL (SITE/CUSTOMER/PRODUCER)

COMPANY NAME

Hammond Homes

SITE ADDRESS

LITTLEHAMPTON



BELL & SONS
CONSTRUCTION LIMITED

North Grange Farm House, Wimlands Lane, Faygate,
Nr Horsham, West Sussex RH12 4SP

WTN

07639

DATE

TIME ON SITE

TIME OFF SITE

12	11	10	09

DUTY OF CARE CONTROLLED WASTE/MATERIAL TRANSFER NOTE

SECTION A: DESCRIPTION OF WASTE/MATERIAL

SIC CODE 41201 | 41202

1. DESCRIBE WASTE OR MATERIAL BEING TRANSFERRED (TICK OR STATE OTHER AND ENTER & GIVE EWC)

☐ Soil & Stones
170504

☐ Mixed Construction & Demo Waste
170904

☐ Concrete
170101

☐ Other

EWC

☐ Hardcore
170107

☐ Description of waste:

☐ Bituminous mixture (tarmac)
170302

☐ CL-AIRE

2. HOW IS THE WASTE/MATERIAL CONTAINED (TICK) AND QUANTITY (WRITE IN QUANTITY)

☐ LOOSE _____ m³

☒ GPAS LOOSE _____ m³

☐ SKIP _____ YDS

☐ OTHER (PLEASE DESCRIBE AND GIVE QUANTITY)

SKIP SIZE _____

OTHER WORK

☐ COLLECT ☐ WAIT & LOAD

☐ DAY WORK

☐ DELIVER ☐ EXCHANGE

☐ HAULAGE TO

SECTION B: CURRENT HOLDER OF WASTE/MATERIAL (SITE/CUSTOMER/PRODUCER)

COMPANY NAME

SITE ADDRESS

Shelburne Homes
Canfield Close
L. Horsham



BELL & SONS
CONSTRUCTION LIMITED

North Grange Farm House, Wimlands Lane, Faygate,
Nr Horsham, West Sussex RH12 4SP

WTN

07640

DATE

21/05/02

TIME ON SITE

08:00

TIME OFF SITE

04:00

DUTY OF CARE CONTROLLED WASTE/MATERIAL TRANSFER NOTE

SECTION A: DESCRIPTION OF WASTE/MATERIAL

SIC CODE 41201 | 41202

1. DESCRIBE WASTE OR MATERIAL BEING TRANSFERRED (TICK OR STATE OTHER AND ENTER 6 DIGIT EWC)

☐ Soil & Stones
170304

☐ Mixed Construction & Demo Waste
170504

☐ Concrete
170101

☒ Other

EWC

☐ Hardcore
170107

☐ Description of waste:

☐ Bituminous mixture (tarmac)
170302

☐ CLAIR:

2. HOW IS THE WASTE/MATERIAL CONTAINED (TICK) AND QUANTITY (WRITE IN QUANTITY)

☐ LOOSE _____ m³

☐ CRAB LOOSE _____ m³

☐ SKIP _____ YDS

☐ OTHER (PLEASE DESCRIBE AND GIVE QUANTITY)

SKIP SIZE _____

OTHER WORK _____

☐ COLLECT ☐ WAIT & LOAD

☐ DAY WORK

☐ DELIVER ☐ EXCHANGE

☐ HAULAGE TO

SECTION B: CURRENT HOLDER OF WASTE/MATERIAL (SITE/CUSTOMER/PRODUCER)

COMPANY NAME

Thakeham House

SITE ADDRESS

Comfald Close
L. HAMPTON



BELL & SONS
CONSTRUCTION LIMITED

North Grange Farm House, Wimlands Lane, Faygate,
Nr Horsham, West Sussex RH12 4SP

WTH

07633

DATE

21/11/20

TIME ON SITE

TIME OFF SITE

DUTY OF CARE CONTROLLED WASTE/MATERIAL TRANSFER NOTE

SECTION A: DESCRIPTION OF WASTE/MATERIAL

SIC CODE 41201 | 41202

1. DESCRIBE WASTE OR MATERIAL BEING TRANSFERRED (TICK OR STATE OTHER AND ENTER 6 DIGIT EWC)

☐ Sod & Stones
170504

☐ Mixed Construction & Demo Waste
170904

☐ Concrete
170301

☐ Other

EWC

☐ Hardcore
170617

☐ Description of waste

☐ Bituminous mixture (tarmac)
170302

☐ CLAIR

2. HOW IS THE WASTE/MATERIAL CONTAINED (TICK) AND QUANTITY (WRITE IN QUANTITY)

☐ LOOSE _____ m³

☐ GRAB LOOSE _____ m³

☐ SKIP _____ YDS

☐ OTHER (PLEASE DESCRIBE AND GIVE QUANTITY)

SKIP SIZE _____

OTHER WORK

☐ COLLECT ☐ WAIT & LOAD

☐ DAY WORK

☐ DELIVER ☐ EXCHANGE

☐ HAULAGE TO

SECTION B: CURRENT HOLDER OF WASTE/MATERIAL (SITE/CUSTOMER/PRODUCER)

COMPANY NAME

SITE ADDRESS



BELL & SONS
CONSTRUCTION LIMITED

North Grange Farm House, Wimlands Lane, Faygate,
Nr Horsham, West Sussex RH12 4SP

WTN

08314

DATE

TIME ON SITE

TIME OFF SITE

DUTY OF CARE CONTROLLED WASTE/MATERIAL TRANSFER NOTE

SECTION A: DESCRIPTION OF WASTE/MATERIAL

SIC CODE 41201 | 41202

1. DESCRIBE WASTE OR MATERIAL BEING TRANSFERRED (TICK OR STATE OTHER AND ENTER 6 DIGIT EWC)

☐ Soil & Stones
170504

☐ Mixed Construction & Demo Waste
170904

☐ Concrete
170101

☒ Other

EWC

☐ Hardcore
170307

☐ Description of waste:

☐ Bituminous mixture (tarmac)
170502

☐ CL:AIRE

2. HOW IS THE WASTE/MATERIAL CONTAINED (TICK) AND QUANTITY (WRITE IN QUANTITY)

☒ LOOSE 15 m³

☐ GRAB LOOSE _____ m³

☐ SKIP _____ YDS

☐ OTHER (PLEASE DESCRIBE AND GIVE QUANTITY):

SKIP SIZE _____

OTHER WORK _____

☐ COLLECT ☐ WAIT & LOAD

☐ DAY WORK

☐ DELIVER ☐ EXCHANGE

☐ HAULAGE TO

SECTION B: CURRENT HOLDER OF WASTE/MATERIAL (SITE/CUSTOMER/PRODUCER)

COMPANY NAME THAMES VALLEY WASTE

SITE ADDRESS CONTRACT 1635

201635 WIMLANDS

**BELL & SONS**

CONSTRUCTION LIMITED

North Grange Farm House, Wimlands Lane, Faygate,
Nr Horsham, West Sussex RH12 4SP

WTN

08189

DATE

TIME ON SITE

TIME OFF SITE

DUTY OF CARE CONTROLLED WASTE/MATERIAL TRANSFER NOTE**SECTION A: DESCRIPTION OF WASTE/MATERIAL**

SIC CODE 41201 | 41202

1. DESCRIBE WASTE OR MATERIAL BEING TRANSFERRED (TICK OR STATE OTHER AND ENTER 6 DIGIT EWC)

☐ Soil & Stones
170504☐ Mixed Construction & Demo Waste
170904☐ Concrete
170101☒ Other

EWC

☐ Hardcore
170107☐ Description of waste:☐ Bituminous mixture (tarmac)
170502☐ CL:AIRE:

2. HOW IS THE WASTE/MATERIAL CONTAINED (TICK) AND QUANTITY (WRITE IN QUANTITY)

☐ LOOSE _____ m³☐ GRAB LOOSE _____ m³☐ SKIP _____ YDS☐ OTHER (PLEASE DESCRIBE AND GIVE QUANTITY)

SKIP SIZE _____

OTHER WORK _____

☐ COLLECT ☐ WAIT & LOAD☐ DAY WORK☐ DELIVER ☐ EXCHANGE☐ HAULAGE TO _____**SECTION B: CURRENT HOLDER OF WASTE/MATERIAL (SITE/CUSTOMER/PRODUCER)**

COMPANY NAME: _____

SITE ADDRESS: _____



BELL & SONS
CONSTRUCTION LIMITED

North Grange Farm House, Wimlands Lane, Faygate,
Nr Horsham, West Sussex RH12 4SP

WTN

08191

DATE

TIME ON SITE

TIME OFF SITE

DUTY OF CARE CONTROLLED WASTE/MATERIAL TRANSFER NOTE

SECTION A: DESCRIPTION OF WASTE/MATERIAL

SIC CODE 41201 / 41202

1. DESCRIBE WASTE OR MATERIAL BEING TRANSFERRED (TICK OR STATE OTHER AND ENTER 6 DIGIT EWC)

☐ Soil & Stones
170504

☐ Mixed Construction & Demo Waste
170904

☐ Concrete
170101

☒ Other

EWC

☐ Hardcore
170107

☐ Description of waste:

☐ Bituminous mixture (tarmac)
170302

☐ CL-AIRE

2. HOW IS THE WASTE/MATERIAL CONTAINED (TICK) AND QUANTITY (WRITE IN QUANTITY)

☐ LOOSE _____ m³

☐ GRAB LOOSE _____ m³

☐ SKIP _____ YDS

☐ OTHER (PLEASE DESCRIBE AND GIVE QUANTITY)

SKIP SIZE _____

OTHER WORK

☐ COLLECT ☐ WAIT & LOAD

☐ DAY WORK

☐ DELIVER ☐ EXCHANGE

☐ HAULAGE TO

SECTION B: CURRENT HOLDER OF WASTE/MATERIAL (SITE/CUSTOMER/PRODUCER)

COMPANY NAME

SITE ADDRESS



BELL & SONS
CONSTRUCTION LIMITED

North Grange Farm House, Wimbleds Lane, Faygate,
Nr Horsham, West Sussex RH12 4SP

WTN

08307

DATE

16/11/20

TIME ON SITE

0710

TIME OFF SITE

1729

DUTY OF CARE CONTROLLED WASTE/MATERIAL TRANSFER NOTE

SECTION A: DESCRIPTION OF WASTE/MATERIAL

SIC CODE 41201 | 41202

1. DESCRIBE WASTE OR MATERIAL BEING TRANSFERRED (TICK OR STATE OTHER AND ENTER 6 DIGIT EWC)

☐ Soil & Stones
170504

☐ Mixed Construction & Demo waste
170904

☐ Concrete
170101

☒ Other

TOPSOIL

EWC

☐ Hardcore
170107

☐ Description of waste:

☐ Bituminous mixture (tarmac)
170302

☐ CLAIPE:

2. HOW IS THE WASTE/MATERIAL CONTAINED (TICK) AND QUANTITY (WRITE IN QUANTITY)

☒ LOOSE 15 m³

☐ GRAB LOOSE m³

☐ SKIP YDS

☐ OTHER (PLEASE DESCRIBE AND GIVE QUANTITY)

SKIP SIZE

OTHER WORK

☐ COLLECT ☐ WAIT & LOAD

☐ DAY WORK

☐ DELIVER ☐ EXCHANGE

☐ HAULAGE TO

SECTION B: CURRENT HOLDER OF WASTE/MATERIAL (SITE/CUSTOMER/PRODUCER)

COMPANY NAME

THORNTON HOMES

SITE ADDRESS

CORNFIELD CLOSE

LITTLEHAMPTON



BELL & SONS
CONSTRUCTION LIMITED

North Grange Farm House, Wimlands Lane, Faygate,
Nr Horsham, West Sussex RH12 4SP

WTN

04917

DATE

TIME ON SITE

TIME OFF SITE

DUTY OF CARE CONTROLLED WASTE/MATERIAL TRANSFER NOTE

SECTION A: DESCRIPTION OF WASTE/MATERIAL

SIC CODE 41201 | 41202

1. DESCRIBE WASTE OR MATERIAL BEING TRANSFERRED (TICK OR STATE OTHER AND ENTER 6 DIGIT EWC)

☐ Soil & Stones
170504

☐ Mixed Construction & Demo Waste
170808

☐ Concrete
170101

☐ Other

EWC

☐ Hardcore
170107

☐ Description of waste

☐ Bituminous mixture (tarmac)
170302

☐ CL:AIRE

2. HOW IS THE WASTE/MATERIAL CONTAINED (TICK) AND QUANTITY (WRITE IN QUANTITY)

☒ LOOSE 16000 m³

☐ GRAB LOOSE _____ m³

☐ SKIP _____ yds

☐ OTHER (PLEASE DESCRIBE AND GIVE QUANTITY)

SKIP SIZE _____

OTHER WORK

☐ COLLECT ☒ WAIT & LOAD

☐ DAY WORK

☒ DELIVER ☐ EXCHANGE

☐ HAULAGE TO

SECTION B: CURRENT HOLDER OF WASTE/MATERIAL (SITE/CUSTOMER/PRODUCER)

COMPANY NAME

SITE ADDRESS

THORNTON HOMES
LITTLEHAMPTON



BELL & SONS
CONSTRUCTION LIMITED

North Grange Farm House, Winlands Lane, Faygate,
Nr Horsham, West Sussex RH12 4SP

WTN

07626

DATE

26/7/20

TIME ON SITE

TIME OFF SITE

DUTY OF CARE CONTROLLED WASTE/MATERIAL TRANSFER NOTE

SECTION A: DESCRIPTION OF WASTE/MATERIAL

SIC CODE 41201 | 41202

1 DESCRIBE WASTE OR MATERIAL BEING TRANSFERRED (TICK OR STATE OTHER AND ENTER 5 DIGIT EWC)

☐ Soil & Stones
170904

☐ Mixed Construction & Demo Waste
170904

☐ Concrete
170101

☒ Other

EWC

☐ Hardcore
170907

☐ Description of waste

☐ Bituminous mixture (tar/mac)
170502

☐ CL:AIRE

2. HOW IS THE WASTE/MATERIAL CONTAINED (TICK) AND QUANTITY (WRITE IN QUANTITY)

☐ LOOSE m³

☒ GRAB LOOSE m³

☐ SKIP YDS

☐ OTHER (PLEASE DESCRIBE AND GIVE QUANTITY)

SKIP SIZE

☐ COLLECT ☐ WAIT & LOAD

☐ DELIVER ☐ EXCHANGE

OTHER WORK

☐ DAY WORK

☐ HAULAGE TO

SECTION B: CURRENT HOLDER OF WASTE/MATERIAL (SITE/CUSTOMER/PRODUCER)

COMPANY NAME

Construction James

SITE ADDRESS

Confield Close

1/1000000



BELL & SONS
CONSTRUCTION LIMITED

WTN

07974

North Grange Farm House, Winklands Lane, Faygate,
Nr Horsham, West Sussex RH12 4SP

DATE

TIME ON SITE

TIME OFF SITE

DUTY OF CARE CONTROLLED WASTE/MATERIAL TRANSFER NOTE

SECTION A: DESCRIPTION OF WASTE/MATERIAL

SIC CODE 41201 | 41202

1. DESCRIBE WASTE OR MATERIAL BEING TRANSFERRED (TICK OR STATE OTHER AND ENTER 6 DIGIT EWC)

☐ Soil & Stones
170504

☐ Mixed Construction & Demo Waste
170904

☐ Concrete
170101

☐ Other

EWC

☐ Hardcore
170107

☐ Description of waste

☐ Bituminous mixture (tarmac)
170302

☐ CL/AIRE

2. HOW IS THE WASTE/MATERIAL CONTAINED (TICK) AND QUANTITY (WRITE IN QUANTITY)

☐ LOOSE _____ m³

☐ GRAB LOOSE _____ m³

☐ SKIP _____ YDS

☐ OTHER (PLEASE DESCRIBE AND GIVE QUANTITY)

SKIP SIZE

☐ COLLECT ☐ WAIT & LOAD

☐ DELIVER ☐ EXCHANGE

OTHER WORK

☐ DAY WORK

☐ HAULAGE TO

SECTION B: CURRENT HOLDER OF WASTE/MATERIAL (SITE/CUSTOMER/PRODUCER)

COMPANY NAME

SITE ADDRESS

**BELL & SONS**

CONSTRUCTION LIMITED

North Grange Farm House, Wimlands Lane, Faygate,
Nr Horsham, West Sussex RH12 4SP

WTN

08305

DATE

TIME ON SITE

TIME OFF SITE

0	8	3	0	5

DUTY OF CARE CONTROLLED WASTE/MATERIAL TRANSFER NOTE**SECTION A: DESCRIPTION OF WASTE/MATERIAL**

SIC CODE 41201 | 41202

1. DESCRIBE WASTE OR MATERIAL BEING TRANSFERRED (TICK OR STATE OTHER AND ENTER 6-DIGIT EWC)

☐ Soil & Stones
170504☐ Mixed Construction & Demo Waste
170904☐ Concrete
170101☒ Other

EWC

☐ Hardcore
170307☐ Description of waste:☐ Bituminous mixture (tarmac)
170302☐ CL:AIRE:

2. HOW IS THE WASTE/MATERIAL CONTAINED (TICK) AND QUANTITY (WRITE IN QUANTITY)

☒ LOOSE 15 m³☐ GRAB LOOSE _____ m³☐ SKIP _____ yds☐ OTHER (PLEASE DESCRIBE AND GIVE QUANTITY)

SKIP SIZE _____

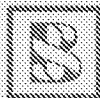
☐ COLLECT ☐ WAIT & LOAD☐ DELIVER ☐ EXCHANGE

OTHER WORK

☐ DAY WORK☐ HAULAGE TO**SECTION B: CURRENT HOLDER OF WASTE/MATERIAL (SITE/CUSTOMER/PRODUCER)**

COMPANY NAME

SITE ADDRESS



BELL & SONS
CONSTRUCTION LIMITED

North Grange Farm House, Wimlands Lane, Faygate,
Nr Horsham, West Sussex RH12 4SP

WTN

08303

DATE

TIME ON SITE

TIME OFF SITE

DUTY OF CARE CONTROLLED WASTE/MATERIAL TRANSFER NOTE

SECTION A: DESCRIPTION OF WASTE/MATERIAL

SIC CODE 41201 | 41202

1 DESCRIBE WASTE OR MATERIAL BEING TRANSFERRED (TICK OR STATE OTHER AND ENTER 6 DIGIT EWC)

☐ Soil & Stones
170504

☐ Mixed Construction & Demo Waste
170304

☐ Concrete
170101

☒ Other

EWC

☐ Hardcore
170107

☐ Description of waste

☐ Bituminous mixture (tarmac)
170302

☐ CLAIPE

2 HOW IS THE WASTE/MATERIAL CONTAINED (TICK) AND QUANTITY (WRITE IN QUANTITY)

☒ LOOSE 15 m³

☐ GRAB LOOSE _____ m³

☐ SKIP _____ YDS

☐ OTHER (PLEASE DESCRIBE AND GIVE QUANTITY)

SKIP SIZE _____

OTHER WORK

☐ COLLECT ☐ WAIT & LOAD

☐ DAY WORK

☐ DELIVER ☐ EXCHANGE

☐ HAULAGE TO

SECTION B: CURRENT HOLDER OF WASTE/MATERIAL (SITE/CUSTOMER/PRODUCER)

COMPANY NAME

SITE ADDRESS

**BELL & SONS**

CONSTRUCTION LIMITED

North Grange Farm House, Wimlands Lane, Faygate,
Nr Horsham, West Sussex, BN12 4SP

WTN

08306

DATE

17/01/20

TIME ON SITE

TIME OFF SITE

DUTY OF CARE CONTROLLED WASTE/MATERIAL TRANSFER NOTE**SECTION A: DESCRIPTION OF WASTE/MATERIAL**

SIC CODE 41201 | 41202

1. DESCRIBE WASTE OR MATERIAL BEING TRANSFERRED (TICK OR STATE OTHER AND ENTER 6 DIGIT EWC)

☐ Soil & Stones
170504☐ Mixed Construction & Demo Waste
170504☐ Concrete
170101☒ Other

140A1

EWC

☐ Hardcore
170107☐ Description of waste

TOPSOIL

☐ Bituminous mixture (fermic)
170302☐ CL-AIRE

2. HOW IS THE WASTE/MATERIAL CONTAINED (TICK) AND QUANTITY (WRITE IN QUANTITY)

☒ LOOSE 15 m³☐ GRAB LOOSE m³☐ SKIP YDS☐ OTHER (PLEASE DESCRIBE AND GIVE QUANTITY)

SKIP SIZE

☐ COLLECT ☐ WAIT & LOAD

OTHER WORK

☐ DELIVER ☐ EXCHANGE☐ DAY WORK☐ HAULAGE TO**SECTION B: CURRENT HOLDER OF WASTE/MATERIAL (SITE/CUSTOMER/PRODUCER)**

COMPANY NAME Little Cannon

SITE ADDRESS Little Cannon

LITTLE CANNON



BELL & SONS
CONSTRUCTION LIMITED

North Grange Farm House, Wimlands Lane, Faygate,
Or Horsham, West Sussex RH12 4SP

WTN

04915

DATE

13/11/20

TIME ON SITE

TIME OFF SITE

DUTY OF CARE CONTROLLED WASTE/MATERIAL TRANSFER NOTE

SECTION A: DESCRIPTION OF WASTE/MATERIAL

SIC CODE 41201 | 41202

1. DESCRIBE WASTE OR MATERIAL BEING TRANSFERRED (TICK OR STATE OTHER AND ENTER 5 DIGIT EWC)

☐ Soil & Stones
170504

☐ Mixed Construction & Demo Waste
1705034

☐ Concrete
170101

☐ Other

EWC

☐ Hardcore
170107

☐ Description of waste:

TOPSOIL

☐ Bituminous mixture (tarmac)
170202

☐ CL-AIRE

2. HOW IS THE WASTE/MATERIAL CONTAINED (TICK) AND QUANTITY (WRITE IN QUANTITY)

☒ LOOSE 11 LOAD m³

☐ GRAB LOOSE _____ m³

☐ SKIP _____ YDS

☐ OTHER (PLEASE DESCRIBE AND GIVE QUANTITY)

SKIP SIZE

OTHER WORK

☐ COLLECT ☐ WAIT & LOAD

☐ DAY WORK

☐ DELIVER ☐ EXCHANGE

☐ HAULAGE TO

SECTION B: CURRENT HOLDER OF WASTE/MATERIAL (SITE/CUSTOMER/PRODUCER)

COMPANY NAME

THATCHMAN HOMES

SITE ADDRESS

LITTLE HAMPTON

BY SIGNING SECTION B, I CAN CONFIRM THAT I HAVE FULFILLED MY DUTY TO APPLY THE WASTE HIERARCHY



Neil Burrows

Southern Testing Laboratories Ltd
Keeble House
Stuart Way
East Grinstead
West Sussex
RH19 4QA

i2 Analytical Ltd.
7 Woodshots Meadow,
Croxley Green
Business Park,
Watford,
Herts,
WD18 8YS

Analytical Report Number : 20-93440

Project / Site name: Cornfield Close, Littlehampton

Samples received on: 19/02/2020

Your job number: SS1597

Samples instructed on: 19/03/2020

Your order number: SS1597-1

Analysis completed by: 27/03/2020

Report Issue Number: 1

Report issued on: 27/03/2020

Samples Analysed: 1 soil sample

Agnieszka Czerwińska

Technical Reviewer (Reporting Team)
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

Excel copies of reports are only valid when accompanied by this PDF certificate.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.

Iss No 20-93440-1 Cornfield Close, Littlehampton SS1597

Analytical Report Number: 20-93440

Project / Site name: Cornfield Close, Littlehampton

Your Order No: SS1597-1

Lab Sample Number				1476700				
Sample Reference				SP1				
Sample Number				None Supplied				
Depth (m)				0.00				
Date Sampled				14/02/2020				
Time Taken				1200				
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1				
Moisture Content	%	N/A	NONE	14				
Total mass of sample received	kg	0.001	NONE	2.0				

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected				
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General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.9				
Total Cyanide	mg/kg	1	MCERTS	< 1				
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.075				
Sulphide	mg/kg	1	MCERTS	< 1.0				
Organic Matter	%	0.1	MCERTS	0.3				

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0				
----------------------------	-------	---	--------	-------	--	--	--	--

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05				
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05				
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05				
Fluorene	mg/kg	0.05	MCERTS	< 0.05				
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05				
Anthracene	mg/kg	0.05	MCERTS	< 0.05				
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05				
Pyrene	mg/kg	0.05	MCERTS	< 0.05				
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05				
Chrysene	mg/kg	0.05	MCERTS	< 0.05				
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05				
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05				
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05				
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05				
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05				
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05				

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80				
-----------------------------	-------	-----	--------	--------	--	--	--	--

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	19				
Boron (water soluble)	mg/kg	0.2	MCERTS	1.7				
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2				
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0				
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	28				
Copper (aqua regia extractable)	mg/kg	1	MCERTS	12				
Lead (aqua regia extractable)	mg/kg	1	MCERTS	16				
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3				
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	29				
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0				
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	57				
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	52				

Petroleum Hydrocarbons

TPH C10 - C40	mg/kg	10	MCERTS	< 10				
TPH2 (C6 - C10)	mg/kg	0.1	MCERTS	< 0.1				
TPH C6 - C40	mg/kg	10	NONE	< 10				



Analytical Report Number : 20-93440

Project / Site name: Cornfield Close, Littlehampton

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
1476700	SP1	None Supplied	0.00	Brown clay and loam with gravel.

Analytical Report Number : 20-93440

Project / Site name: Cornfield Close, Littlehampton

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Water (PrW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazine followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
TPH Banding in Soil by FID	Determination of hexane extractable hydrocarbons in soil by GC-FID.	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	W	MCERTS
TPH C6 - C40 (soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method.	L076-PL	W	NONE
TPH2 (Soil)	Determination of hydrocarbons C6-C10 by headspace GC-MS.	In-house method based on USEPA8260	L088-PL	W	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

Sample Deviation Report

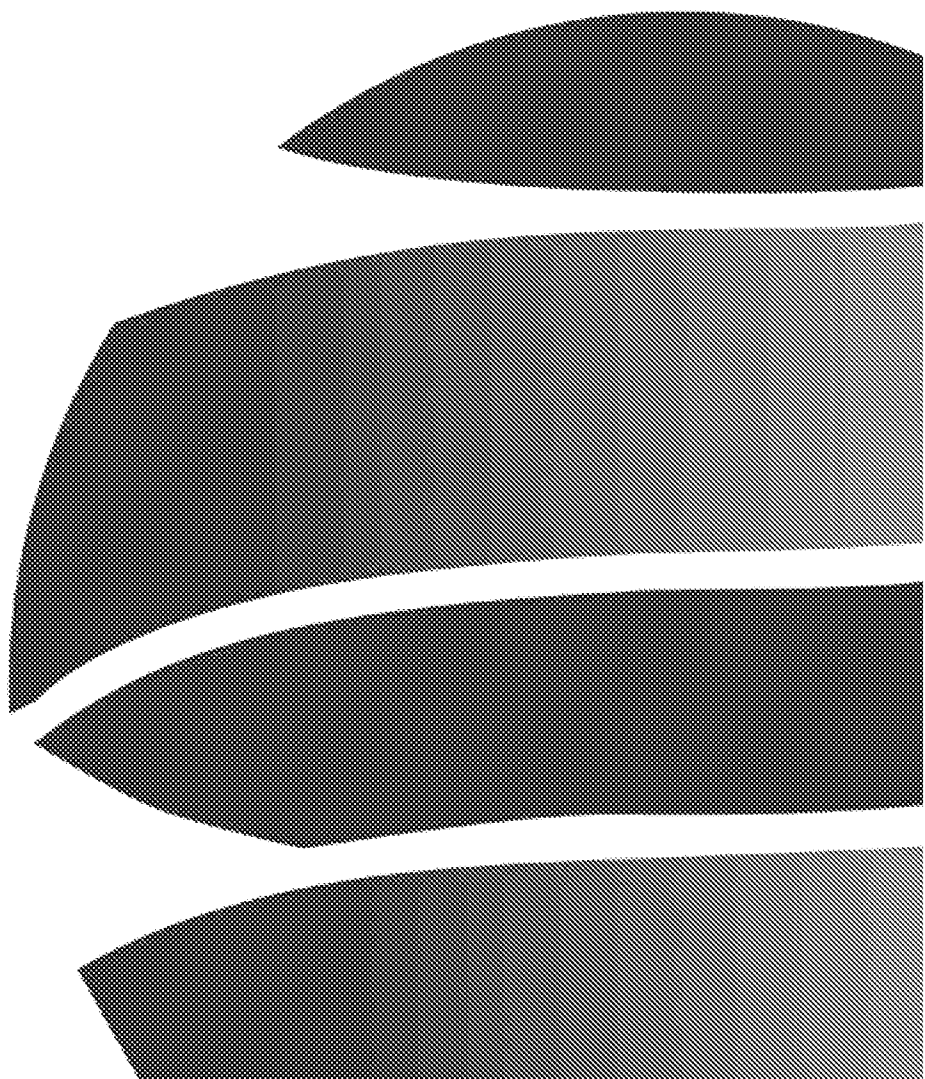


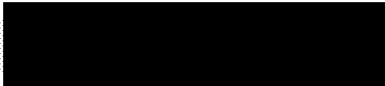
Sample ID	Other_ID	Sample Type	Job	Sample Number	Sample Deviation Code	test_name	test_ref	Test Deviation code
SP1		S	20-93440	1476700	c	Hexavalent chromium in soil	L080-PL	c
SP1		S	20-93440	1476700	c	Monohydric phenols in soil	L080-PL	c
SP1		S	20-93440	1476700	c	Organic matter (Automated) in soil	L009-PL	c
SP1		S	20-93440	1476700	c	Speciated EPA-16 PAHs in soil	L064-PL	c
SP1		S	20-93440	1476700	c	Sulphide in soil	L010-PL	c
SP1		S	20-93440	1476700	c	TPH Banding in Soil by FID	L076-PL	c
SP1		S	20-93440	1476700	c	TPH C6 - C40 (soil)	L076-PL	c
SP1		S	20-93440	1476700	c	TPH2 (Soil)	L088-PL	c
SP1		S	20-93440	1476700	c	Total cyanide in soil	L080-PL	c
SP1		S	20-93440	1476700	c	pH in soil (automated)	L099-PL	c



APPENDIX B

Visual Inspection Records



ID	GE18103
Project Name	Cornfield Close - Plots 36-39
Client	Thakeham Homes
Engineers	
 Fiona Goode	
Project Manager	
 Laura Legate	
Location	Littlehampton
Date	11/02/2021

Details of Hole

(4 records)

Hole ID	HP201
Plot No./Position	Plot 36
Date of Hole	11/02/2021, 14:00
Hole Type	HP
Final Depth	0.6
Ground Conditions	

(2 records)

Top Depth	Base Depth	General description of stratum
0	0.15	Dark brown slightly sandy CLAY with frequent roots and rootlets and occasional flint gravel
0.15	0.6	Orange brown silty CLAY with frequent roots and rootlets. Orange taram in base of pit

Samples

(1 record)

Top Depth	Base Depth	Sample type	Sample reference
0.2	0.2	ES	1

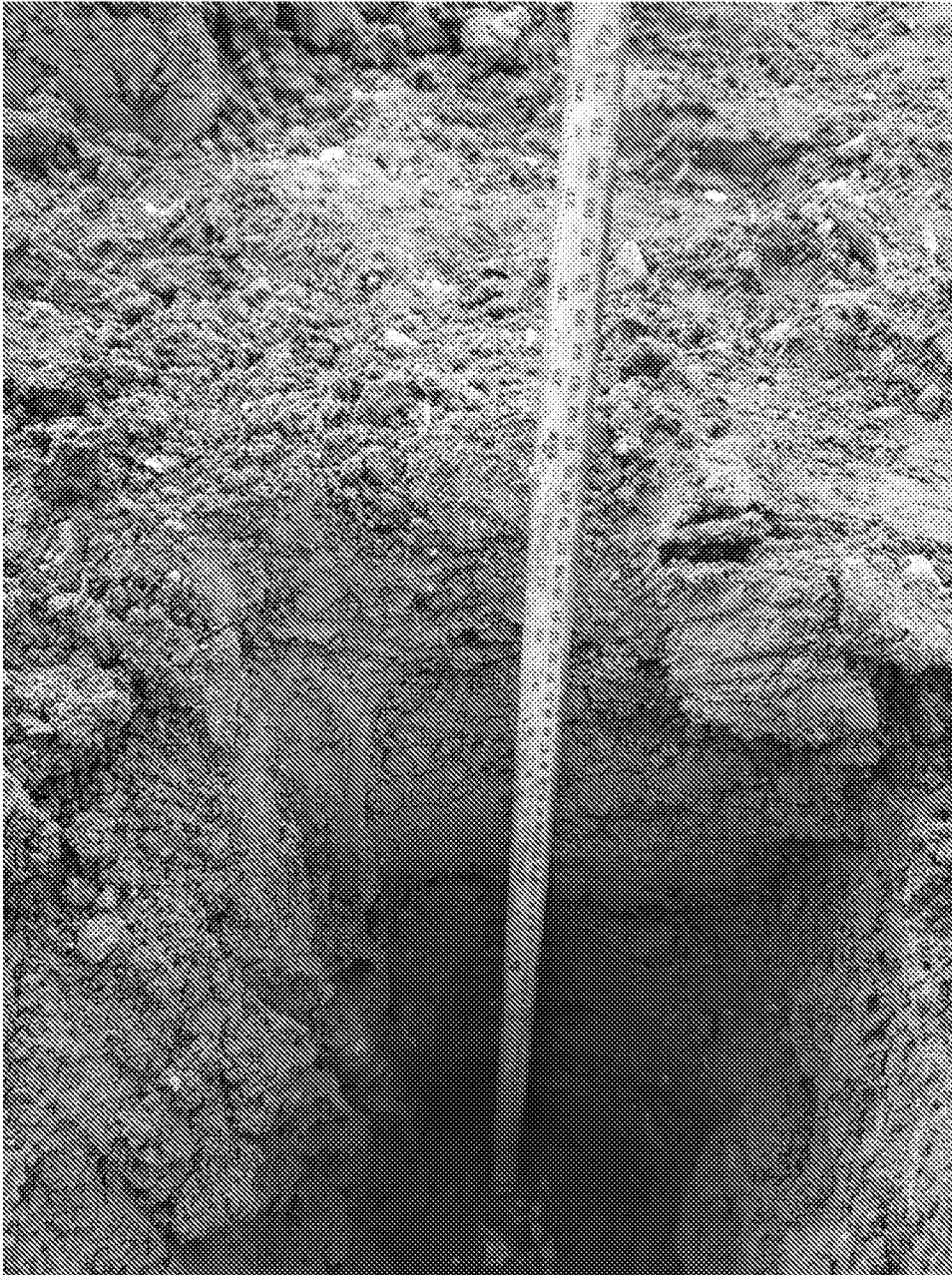
Pass/Fail (X) Pass
() Fail

Remarks

Photo of Spoil



Photo of hole with tape in place



Photographs

(1 record)

Photograph



Description

View of pit location

Hole ID	HP202
Plot No./Position	Plot 37
Date of Hole	11/02/2021, 14:30
Hole Type	HP
Final Depth	0.6

Ground Conditions

(2 records)

Top Depth	Base Depth	General description of stratum
0	0.15	Dark brown slightly sandy CLAY with frequent roots and rootlets and occasional flint gravel
0.15	0.6	Orange brown silty CLAY with frequent roots and rootlets. Orange taram in base of pit

Samples

(1 record)

Top Depth	Base Depth	Sample type	Sample reference
0.1	0.1	ES	1

(X) Pass

Pass/Fail

() Fail

Remarks

Photo of Spoil



Photo of hole with tape in place



Hole ID HP203

Plot No./Position Plot 38

Date of Hole 11/02/2021, 14:30

Hole Type HP

Final Depth 0.6

Ground Conditions

(2 records)

Top Depth	Base Depth	General description of stratum
0	0.15	Dark brown slightly sandy CLAY with frequent roots and rootlets and occasional flint gravel
0.15	0.6	Orange brown silty CLAY with frequent roots and rootlets. Orange taram in base of pit

Samples

(1 record)

Top Depth	Base Depth	Sample type	Sample reference
0.35	0.35	ES	1

Pass/Fail

(X) Pass
() Fail

Remarks

Photo of Spoil



Photo of hole with tape in place



Photographs

(1 record)

Photograph



Description

Photo of pit location

Hole ID HP204

Plot No./Position Plot 39

Date of Hole 11/02/2021, 15:00

Hole Type HP

Final Depth 0.65

Ground Conditions

(2 records)

Top Depth	Base Depth	General description of stratum
0	0.15	Dark brown slightly sandy CLAY with frequent roots and rootlets and occasional flint gravel
0.15	0.65	Orange brown silty CLAY with frequent roots and rootlets. Orange taram in base of pit

Samples

(1 record)

Top Depth	Base Depth	Sample type	Sample reference
0.1	0.1	ES	1

(X) Pass

Pass/Fail

() Fail

Remarks

Photo of Spoil



Photo of hole with tape in place



Photographs

(1 record)

Photograph



Description

Photo of pit location

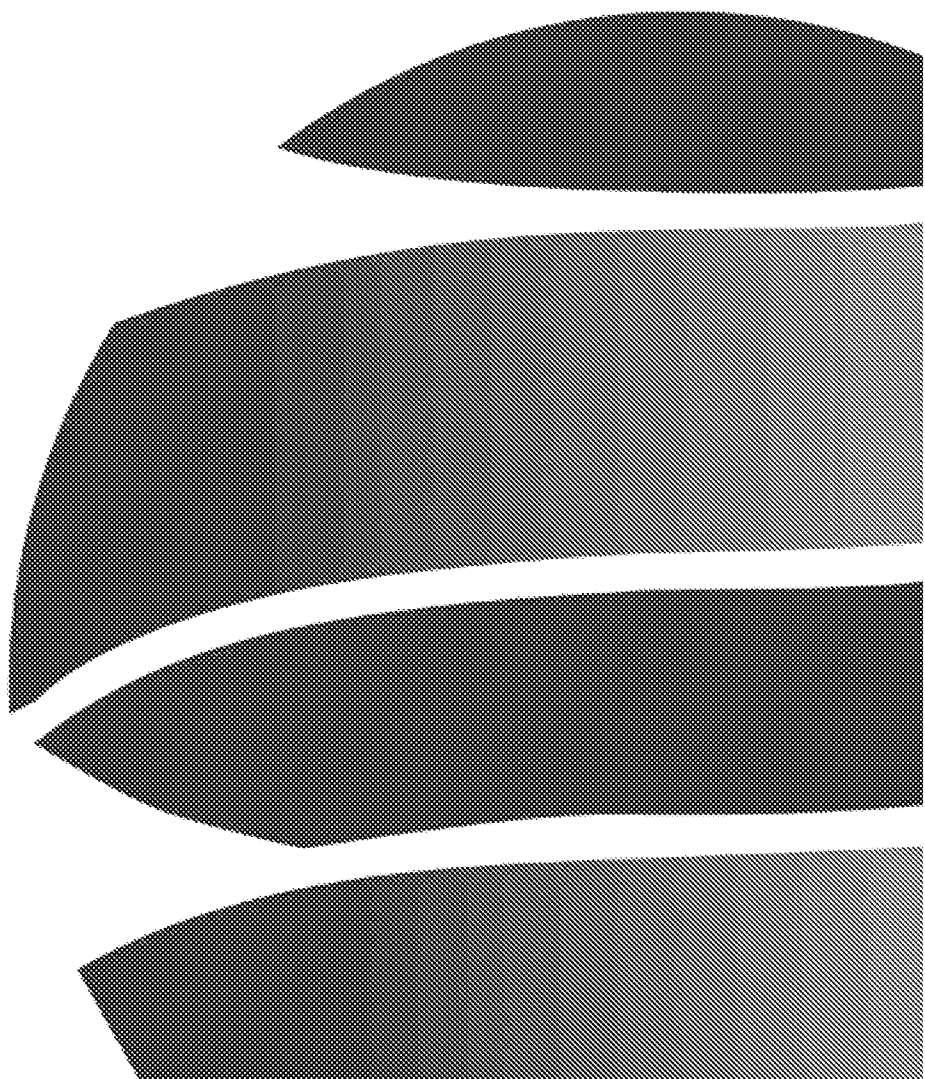
Approved By

No users



APPENDIX C

Geochemical Laboratory Results





Unit A2
Windmill Road
Ponswood Industrial Estate
St Leonards on Sea
East Sussex
TN38 9BY

THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 21-32156

Issue: Preliminary Report

Date of Issue: 24/02/2021

Contact: Fiona Goode

Customer Details: GESL
Unit 7
Danworth Farm
Hurstpierpoint
West Sussex BN6 9GL

Quotation No: Q19-01488

Order No: PO-3553

Customer Reference: GE18103

Date Received: 18/02/2021

Date Approved: Not Approved

Details: Cornfield Close

Approved by:

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

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Sample Summary

Report No.: 21-32156, issue number 0

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
227743	HP201 0.20	11/02/2021	18/02/2021	Silty loam	
227744	HP202 0.10	11/02/2021	18/02/2021	Sandy silty loam	
227745	HP203 0.35	11/02/2021	18/02/2021	Silty loam	
227746	HP204 0.10	11/02/2021	18/02/2021	Sandy silty loam	



Results Summary

Report No.: 21-32156, issue number 0

ELAB Reference				227743	227744	227745	227746
Customer Reference							
Sample ID							
Sample Type				SOIL	SOIL	SOIL	SOIL
Sample Location				HP201	HP202	HP203	HP204
Sample Depth (m)				0.20	0.10	0.35	0.10
Sampling Date				11/02/2021	11/02/2021	11/02/2021	11/02/2021
Determinand	Codes	Units	LOD				
Soil sample preparation parameters							
Material removed	N	%	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Description of Inert material removed	N		0	None	None	None	None
Metals							
Arsenic	M	mg/kg	1	^ 16.3	n/t	n/t	^ 16.5
Beryllium	U	mg/kg	1	< 1.0	n/t	n/t	< 1.0
Cadmium	M	mg/kg	0.5	^ < 0.5	n/t	n/t	^ < 0.5
Chromium	M	mg/kg	5	^ 24.8	n/t	n/t	^ 30.3
Copper	M	mg/kg	5	^ 21.7	^ 26.5	^ 19.4	^ 34.5
Lead	M	mg/kg	5	^ 48.7	n/t	n/t	^ 164
Mercury	M	mg/kg	0.5	^ < 0.5	n/t	n/t	^ < 0.5
Nickel	M	mg/kg	5	^ 15.8	^ 15.1	^ 16.5	^ 18.6
Selenium	M	mg/kg	1	^ 3.3	n/t	n/t	^ 2.7
Vanadium	M	mg/kg	5	^ 38.0	n/t	n/t	^ 46.7
Zinc	M	mg/kg	5	^ 75.4	^ 116	^ 80.8	^ 149
Anions							
Water Soluble Chloride	M	mg/kg	40	^ < 40	n/t	n/t	^ 40
Water Soluble Sulphate	M	g/l	0.02	^ 0.02	n/t	n/t	^ 0.10
Inorganics							
Carbonate	N	%	0.1	n/t	3.2	0.5	n/t
Elemental Sulphur	M	mg/kg	20	^ < 20	n/t	n/t	^ < 20
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	n/t	n/t	< 0.8
Total Sulphide	N	mg/kg	2	< 2	n/t	n/t	< 2
Total Cyanide	M	mg/kg	1	^ < 1.0	n/t	n/t	^ < 1.0
Acid Soluble Sulphate (SO4)	U	%	0.02	0.03	n/t	n/t	0.05
Water Soluble Boron	N	mg/kg	0.5	0.5	n/t	n/t	1.0
Miscellaneous							
Electrical Conductivity (CaSO4 extract)	N	uS/cm	50	n/t	2400	2370	n/t
Carbon Nitrogen Ratio	N	ratio	0.1	n/t	19.2	19.1	n/t
Loss On Ignition (450°C)	M	%	0.01	n/t	^ 4.17	^ 3.36	n/t
pH	M	pH units	0.1	^ 7.5	^ 8.2	^ 7.9	^ 8.1
Density	N	g/ml	0	n/t	1.12	1.14	n/t
Total Carbon	N	%	0.01	n/t	2.4	1.9	n/t
Total Organic Carbon	N	%	0.01	0.76	n/t	n/t	1.5
Total Nitrogen	N	%	0.01	n/t	0.13	0.10	n/t
Extractable Potassium	N	mg/l	20	n/t	206	156	n/t
Extractable Magnesium	N	mg/l	20	n/t	78	62	n/t
Extractable Phosphate	N	mg/l	1	n/t	93	66	n/t
Sand content	NS	%	1	n/t	to follow	to follow	n/t
Silt content	NS	%	1	n/t	to follow	to follow	n/t
Clay content	NS	%	1	n/t	to follow	to follow	n/t
Stones > 2mm	NS	%	1	n/t	to follow	to follow	n/t
Stones > 20mm	NS	%	1	n/t	to follow	to follow	n/t
Stones > 50mm	NS	%	1	n/t	to follow	to follow	n/t
Total Visible Contaminants	N	%	0.01	n/t	< 0.01	< 0.01	n/t
Plastics	N	%	0.01	n/t	< 0.01	< 0.01	n/t
Sharps	N	n/kg	0	n/t	0	0	n/t
Phenols							
Total Phenols	N	mg/kg	6	< 6	n/t	n/t	< 6

Tests marked N are not UKAS accredited.

The Environmental Laboratory Ltd. Reg. No. 3882193



Results Summary

Report No.: 21-32156, issue number 0

ELAB Reference	227743	227744	227745	227746
Customer Reference				
Sample ID				
Sample Type	SOIL	SOIL	SOIL	SOIL
Sample Location	HP201	HP202	HP203	HP204
Sample Depth (m)	0.20	0.10	0.35	0.10
Sampling Date	11/02/2021	11/02/2021	11/02/2021	11/02/2021

Determinand	Codes	Units	LOD				
Polyaromatic hydrocarbons							
Naphthalene	M	mg/kg	0.1	^ < 0.1	n/t	n/t	^ < 0.1
Acenaphthylene	M	mg/kg	0.1	^ < 0.1	n/t	n/t	^ < 0.1
Acenaphthene	M	mg/kg	0.1	^ < 0.1	n/t	n/t	^ < 0.1
Fluorene	M	mg/kg	0.1	^ < 0.1	n/t	n/t	^ < 0.1
Phenanthrene	M	mg/kg	0.1	^ < 0.1	n/t	n/t	^ 0.1
Anthracene	M	mg/kg	0.1	^ < 0.1	n/t	n/t	^ < 0.1
Fluoranthene	M	mg/kg	0.1	^ 0.1	n/t	n/t	^ 0.3
Pyrene	M	mg/kg	0.1	^ 0.1	n/t	n/t	^ 0.3
Benzo(a)anthracene	M	mg/kg	0.1	^ < 0.1	n/t	n/t	^ 0.2
Chrysene	M	mg/kg	0.1	^ < 0.1	n/t	n/t	^ 0.2
Benzo(b)fluoranthene	M	mg/kg	0.1	^ 0.1	n/t	n/t	^ 0.2
Benzo(k)fluoranthene	M	mg/kg	0.1	^ 0.1	n/t	n/t	^ 0.1
Benzo(a)pyrene	M	mg/kg	0.1	^ < 0.1	n/t	n/t	^ 0.2
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	^ < 0.1	n/t	n/t	^ 0.1
Dibenzo(a,h)anthracene	M	mg/kg	0.1	^ < 0.1	n/t	n/t	^ < 0.1
Benzo[g,h,i]perylene	M	mg/kg	0.1	^ < 0.1	n/t	n/t	^ 0.2
Total PAH(16)	M	mg/kg	0.4	^ 0.9	n/t	n/t	^ 1.9
BTEX							
Benzene	M	ug/kg	10	^ < 10.0	n/t	n/t	^ < 10.0
Toluene	M	ug/kg	10	^ < 10.0	n/t	n/t	^ < 10.0
Ethylbenzene	M	ug/kg	10	^ < 10.0	n/t	n/t	^ < 10.0
Xylenes	M	ug/kg	10	^ < 10.0	n/t	n/t	^ < 10.0
MTBE	N	ug/kg	10	< 10.0	n/t	n/t	< 10.0
TPH CWG							
>C5-C6 Aliphatic	N	mg/kg	0.01	< 0.01	n/t	n/t	< 0.01
>C6-C8 Aliphatic	N	mg/kg	0.01	< 0.01	n/t	n/t	< 0.01
>C8-C10 Aliphatic	N	mg/kg	1	< 1.0	n/t	n/t	< 1.0
>C10-C12 Aliphatic	M	mg/kg	1	^ < 1.0	n/t	n/t	^ < 1.0
>C12-C16 Aliphatic	M	mg/kg	1	^ < 1.0	n/t	n/t	^ < 1.0
>C16-C21 Aliphatic	M	mg/kg	1	^ < 1.0	n/t	n/t	^ < 1.0
>C21-C35 Aliphatic	M	mg/kg	1	^ < 1.0	n/t	n/t	^ < 1.0
>C35-C40 Aliphatic	M	mg/kg	1	^ < 1.0	n/t	n/t	^ < 1.0
Total aliphatic hydrocarbons (>C5 - C40)	N	mg/kg	1	< 1.0	n/t	n/t	< 1.0
>C5-C7 Aromatic	N	mg/kg	0.01	< 0.01	n/t	n/t	< 0.01
>C7-C8 Aromatic	N	mg/kg	0.01	< 0.01	n/t	n/t	< 0.01
>C8-C10 Aromatic	N	mg/kg	1	< 1.0	n/t	n/t	< 1.0
>C10-C12 Aromatic	M	mg/kg	1	^ < 1.0	n/t	n/t	^ < 1.0
>C12-C16 Aromatic	M	mg/kg	1	^ < 1.0	n/t	n/t	^ < 1.0
>C16-C21 Aromatic	M	mg/kg	1	^ < 1.0	n/t	n/t	^ < 1.0
>C21-C35 Aromatic	M	mg/kg	1	^ < 1.0	n/t	n/t	^ < 1.0
>C35-C40 Aromatic	M	mg/kg	1	^ < 1.0	n/t	n/t	^ < 1.0
Total aromatic hydrocarbons (>C5 - C40)	N	mg/kg	1	< 1.0	n/t	n/t	< 1.0
Total petroleum hydrocarbons (>C5 - C40)	N	mg/kg	1	< 1.0	n/t	n/t	< 1.0

Tests marked N are not UKAS accredited.

The Environmental Laboratory Ltd. Reg. No. 3882193



Unit A2, Windmill Road, Ponswood Industrial Estate, St Leonards on Sea, East Sussex, TN38 9BY

Results Summary

Report No.: 21-32156, issue number 0

Asbestos Results

Analytical result only applies to the sample as submitted by the client. Any comments, opinions or interpretations (marked #) in this report are outside UKAS accreditation (Accreditation No2683). They are subjective comments only which must be verified by the client.

Elab No	Depth (m)	Clients Reference	Description of Sample Matrix #	Asbestos Identification	Gravimetric Analysis Total (%)	Gravimetric Analysis by ACM Type (%)	Free Fibre Analysis (%)	Total Asbestos (%)
227743	0.20	HP201	Brown soil with stones	No asbestos detected	n/t	n/t	n/t	n/t
227746	0.10	HP204	Brown soil with stones	No asbestos detected	n/t	n/t	n/t	n/t

Method Summary

Report No.: 21-32156, issue number 0

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Acid neutralisation capacity	N	Air dried sample	22/02/2021		
Extractable cations - BS3882	N	Air dried sample	22/02/2021		ICPMS
Visible Contaminants	N		19/02/2021		
Sulphide	N	As submitted sample	19/02/2021	109	Colorimetry
Hexavalent chromium	N	As submitted sample	19/02/2021	110	Colorimetry
pH	M	Air dried sample	22/02/2021	113	Electromeric
Electrical conductivity of soil	N	Air dried sample.	24/02/2021	114	Electromeric
Acid Soluble Sulphate	U	Air dried sample	22/02/2021	115	Ion Chromatography
Phenols in solids	N	As submitted sample	18/02/2021	121	HPLC
Elemental Sulphur	M	Air dried sample	19/02/2021	122	HPLC
Loss on ignition at 450 deg C	M	Air dried sample	22/02/2021	129	Gravimetry
PAH (GC-FID)	M	As submitted sample	19/02/2021	133	GC-FID
Extr. Phos	N	Air dried sample	22/02/2021	140	ICPMS
Water soluble anions	M	Air dried sample	19/02/2021	172	Ion Chromatography
Low range Aliphatic hydrocarbons soil	N	As submitted sample	19/02/2021	181	GC-MS
Low range Aromatic hydrocarbons soil	N	As submitted sample	19/02/2021	181	GC-MS
BTEX in solids	M	As submitted sample	19/02/2021	181A	GC-MS
Water soluble boron	N	Air dried sample	19/02/2021	202	Colorimetry
Total cyanide	M	As submitted sample	19/02/2021	204	Colorimetry
Total organic carbon/Total sulphur	N	Air dried sample	22/02/2021	210	IR
TPH CWG soil by gc-gc	M	As submitted sample	19/02/2021	271	
Asbestos identification	U	Air dried sample	19/02/2021	280	Microscopy
Aqua regia extractable metals	M	Air dried sample	19/02/2021	300	ICPMS

Tests marked N are not UKAS accredited

Report Information

Report No.: 21-32156, issue number 0

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"
LOD	LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination. Soil sample results are expressed on an air dried basis (dried at < 30°C), and are uncorrected for inert material removed. ELAB are unable to provide an interpretation or opinion on the content of this report. The results relate only to the sample received. PCB congener results may include any coeluting PCBs Uncertainty of measurement for the determinands tested are available upon request Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.

Deviation Codes

-
- | | |
|---|--|
| a | No date of sampling supplied |
| b | No time of sampling supplied (Waters Only) |
| c | Sample not received in appropriate containers |
| d | Sample not received in cooled condition |
| e | The container has been incorrectly filled |
| f | Sample age exceeds stability time (sampling to receipt) |
| g | Sample age exceeds stability time (sampling to analysis) |

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month

All water samples will be retained for 7 days following the date of the test report

Charges may apply to extended sample storage