# Forestry England

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## Hole Farm Woodland Creation Project

Asbestos Survey Report (November 2022)

The Asbestos Survey Report was produced by Imperium Engineering in November 2022 prior to the design of the Project being finalised. The Report presents the findings of the refurbishment surveys undertaken on buildings 1, 2 and 3 prior to building 3 being removed from the Project's red line boundary. However, the results of the refurbishment surveys for buildings 1 and 2 remain relevant to the Project and thus the findings of the Report are still valid.









Asbestos Survey Report 10/11/2022 Refurbishment Survey Refurbishment Survey - Report Reference - FS28554

NS18241 Specified areas of 3 Farm Buildings in Hole Farm 3 Farm Buildings in Hole Farm, Brentwood

## **Content Page**

#### 3 Survey Details

- 3 Property Information
- 3 Client Information
- 3 Contractor Information
- 3 Refurbishment Survey Information
- 3 Document Authorisation

#### 4 Executive Summary

- 4 Room/locations containing High Risk Material
- 4 Inaccessible Room/locations
- 4 Inaccessible Items

### 5 Property Details

5 Property Construction Details

## 6 Survey Information

- 6 Objective & Scope
- 7 Limitations
- 9 Specific Exclusions

#### 10 Survey Results

- 10 Recommendations
- 10 Sample Summary
- 11 Room/location Details including Construction Details
- 22 Asbestos Register
- 25 Overall Risk Assessment Table
- 26 Summary of Remedial or Removal Works

#### 27 Assessment Information

- 27 Material Risk Assessment Algorithm
- 28 Material Classifications
- 29 Priority Classifications
- 30 Priority Risk Assessment Algorithm
- 31 Overall Risk Assessment Algorithm
- 31 Overall Classifications

#### 32 Survey Appendices

- 32 Remedial Options
- 33 Regulations and Guidance

FS28554 Page 2 of 33

## **Survey Details**

#### **Property Information**

Property Name - Property Reference Number:

Address & Postcode: Property Coordinator: Telephone / Mobile:

Email:

PL24509 - Specified areas of 3 Farm Buildings in Hole Farm 3 Farm Buildings in Hole Farm, Brentwood, CM13 3JD

#### **Client Information**

Client Name - Client Reference Number:

Address & Postcode: Telephone / Mobile:

Email:

Imperium Engineering - CO15708

#### **Contractor Information**

Contractor Name - Contractor Reference Number:

Address & Postcode: Telephone / Mobile:

Email:

NSUK Group LTD - CO1

Hampstead House, 176 Finchley Road, Hampstead, London, NW3 6BT

020 3318 1965 info@nsuk.org.uk

### **Refurbishment Survey Information**

 Survey Reference:
 FS28554

 Start Date:
 10/11/2022

 Completion Date:
 10/11/2022

 Publish Date:
 11/11/2022

## **Document Authorisation**

No Image

Lloyd Reeves Lead Surveyor

FS28554 Page 3 of 33

## **Executive Summary**

A Refurbishment Survey was carried out at Specified areas of 3 Farm Buildings in Hole Farm on the 10/11/2022 - 10/11/2022

The purpose of the survey was to identify, as far as reasonably practicable, the presence and extent of any suspect asbestos containing materials (ACMs) in the areas inspected and assess their condition.

Refurbishment survey information was requested for this building.

This type of survey is intrusive and may involve destructive inspection, as necessary, to gain access to potentially hidden asbestos within the building fabric. The level of intrusion necessary was defined in the scope of works for this project.

Changes to the scope of work identified in this report may necessitate further inspection and sampling. Destructive inspection was only carried out in areas which would be disturbed for this project. ACMs may still be hidden within the building fabric.

Construction/down taking plans appended to this report indicate the areas surveyed within this building.

This report was published on 11/11/2022. Updated information may be present on the asbestos management system which should be checked on a regular basis

During this Survey 3 sample(s) were taken for analysis. There were 7 asbestos items identified or presumed to contain asbestos within the property.

#### Room/locations containing High Risk Material

Of the areas inspected, there were no locations identified (or presumed) to contain High Risk ACMs.

#### Inaccessible Room/locations

There were 1 inaccessible room/locations all of which attract a High Material Score.

Area/floor	Room/location	Reason
003 - Building 3 - Ground Floor	003	Locked

#### Inaccessible Items

All items were accessed during the survey.

FS28554 Page 4 of 33

## **Property Details**

## **Property Construction Details**

Primary Use: Commercial
Secondary Use: Warehouse
Date of Construction: Mid 1900s

Construction Type: Concrete & breezeblock

 No. Floors:
 1.0

 No. Staircases:
 0.0

 No. Lifts:
 0.0

 Net Area per Floor:
 700m2

 Gross Area:
 700m2

Comments:

FS28554 Page 5 of 33

## **Survey Information**

#### **Objective & Scope**

NSUK GROUP LTD (NSUK) was requested and authorised by the Client, to undertake a Pre-demolition / Pre-refurbishment Asbestos Survey ('Full access sampling and identification survey').

The purpose of this survey was to identify and establish as far as reasonably practicable, the presence of ACMs and their quantitative extent within the building(s). This is intended to assist Client to manage and minimise any health & safety risks associated with the refurbishment/demolition of the building(s), and to ensure a sufficient level of information is provided to enable the client to obtain a competitive contract for any necessary abatement works

The survey has been undertaken with appropriate reference to Health and Safety Executive (HSE) publication HSG264 'Asbestos: The Survey Guide' and is intended to underpin a strategy for compliance with the Control of Asbestos Regulations (CAR) 2012.

Presented in this report are the findings of our site observations, sample analysis results and our recommendations for future actions with respect to the identified materials from the Pre-demolition / Pre-refurbishment Asbestos Survey. These are based upon a fully intrusive inspection of an unfamiliar site unless otherwise stated.

During the course of the Pre-demolition / Pre-refurbishment Asbestos Survey, all reasonable efforts were made to identify the presence of ACMs and 'look alike' materials within accessible areas of the building. This comprised a visual inspection with confirmatory sampling of suspected ACMs together with further intrusive investigations in specific locations. Whilst the survey cannot guarantee to have identified all ACMs potentially hidden or obscured within the building fabric and/or structure, the information provided by the investigation is intended to be representative of the structure as a whole.

In the case of Pre-demolition / Pre-refurbishment Asbestos Surveys it must be understood that ACMs may be uncovered in areas where inspection points have not been made. Other than discrete representative sampling, no ACMs have been disturbed or removed during the course of this survey. It is therefore a possibility that additional ACMs may be present behind those identified. These may only be discovered during any subsequent asbestos removal work. Inaccessible areas will be deemed to contain asbestos until proven otherwise.

FS28554 Page 6 of 33

## **Survey Information**

#### Limitations

#### Inaccessible Areas and Limitations

The client should refer to the NSUK standard terms and conditions of engagement attached with the works proposal. The HSE publication HSG264 entitled 'Asbestos: The Survey Guide' details guidance on the surveying, assessment and management of ACMs.

#### Intrusive investigations (Pre-demolition / Pre-refurbishment Asbestos Survey)

This type of survey is used to locate and describe, as far as reasonably practicable, all ACMs and 'look alike' materials in a building and may involve destructive inspections, as necessary, to gain access to all areas, where under normal circumstances it would be reasonable to expect the possible presence of ACMs, including those that may be difficult to reach. The survey scope includes a full representative sampling programme undertaken in accordance with our technical procedures and estimates of the volume and surface area of ACMs made.

This type of survey is designed to be used as a basis for tendering for the removal of ACMs from the building before demolition/refurbishment, so does not assess the condition of the asbestos. However, NSUK undertake a material assessment for each item to cover areas where damage or debris may be present, and if appropriate these are highlighted in a pre-works hazard statement. Any recommendations made are based upon the understanding that the site is to undergo major refurbishment and/or demolition. The primary recommendation therefore would be the appropriate removal of ACMs as required. No priority assessments or consideration to the ongoing management of ACMs has been provided. It is recommended that a competent person is retained by the client to supervise any refurbishment/demolition works and to manage any further inspections or confirmatory identification sampling which might be required upon opening-up or discovery of any hidden areas or voids.

Intrusive investigations specific to this survey were undertaken using hand operated power tools only. No allowance was made for destructive works using mobile plant or other heavy equipment. Areas where intrusive inspections were carried out were not 'made good' afterwards unless by prior arrangement with the client. The locations were selected following a preliminary visual appraisal of the building, a review of relevant information made available by the Client and the professional experience of our survey team. Whilst the survey cannot guarantee to have identified all ACMs potentially hidden or obscured within the building fabric and/or structure, the investigations were undertaken in locations that were intended to be representative of the structure as a whole.

If indicative costs have been included in relation to asbestos abatement works these must be considered as tentative only and must, in any event, be confirmed by a qualified quantity surveyor or by tender with a licensed asbestos removal contractor. Any person(s) using the report in this way MUST use all reasonable skill and diligence to verify that the contents of the report are accurate and suitable for the intended use, thereby satisfying themselves as to the extent of ACMs within the designated areas and thereby ensure that their tender is sufficient in every respect to remove ALL the asbestos within these areas, including any that may be hidden behind known or presumed asbestos materials, or that may only become apparent during major refurbishment or demolition works.

The scope of the survey was selected on the basis of the specific redevelopment proposed by the Client and may be inappropriate to another form of redevelopment or scheme. The opinions provided, inter alia, take into consideration current available guidance relating to intrusive surveys and our understanding of the proposed redevelopment provided by the Client; no liability can be accepted for the retrospective effects of any future changes or amendments to these information sources.

Typical exclusions from the intrusive survey (where special arrangements would be required to facilitate access) or specific areas of no access are documented below. It should be noted that the list is not exhaustive. All areas or items that have not been accessed during the survey should be presumed to contain asbestos until proven otherwise.

FS28554 Page 7 of 33

	FS28554-11/11/2022-16:10-
Areas of No	Comments
Live plant and electrical equipment	Enclosed or internal areas of any potentially live plant or equipment may contain asbestos materials. Access to live electrical equipment is excluded from the scope of survey unless specifically requested by the Client. Safe access, including copies of isolation certificates must be provided by the client in the event that such equipment is inspected.
Inspection at height	Representative access to high-level areas will be made so far as is reasonably practicable provided specialist access equipment has been allowed for in the scope of works, otherwise presumptive observations would be made and specified.
Restricted areas	Any area or space which would require specialist access would not be accessed unless by prior agreement with the client. Unless the requisite access has been made e.g. qualified lift engineer, and this is stated in the report it should be assumed that no access has been made. Typical examples include:
	<ul> <li>Lift equipment and Shafts</li> <li>Areas designated as 'Confined Spaces'</li> <li>Areas where asbestos is present and would need to be disturbed to facilitate an inspection.</li> </ul>
Gaskets within pipe joints and plant equipment	Gaskets inserted in pipe joints etc. and bituminous materials such as damp proof membranes, under sink pads and roof felts or membranes may contain a trace content of asbestos. Under normal conditions these materials will not give rise to significant airborne fibre concentration due to the fibre being tightly bonded within a well bound matrix. Representative samples will be taken in accordance with our technical procedures, but in the absence of confirmatory analysis, the presence of asbestos in these materials should be presumed.
Multi-layer or composite structures	Limited representative inspections to multi-layer or composite structures such as floor slabs, roof structures, etc, will be made. Representative sampling of outer finishes such as floor screeds or other finishes e.g. renders, bituminous layers or felts would also be undertaken. However, core sampling or other techniques allowing for full depth sampling of such elements would not routinely be undertaken unless stated in the agreed scope of works. It would be reasonably practicable to allow for such extensive intrusive investigation in instances where information is made available to us, prior to the survey planning stage, indicating that such elements may contain asbestos fibre within its inner layers.
Portable plant or equipment	Portable plant or equipment will not be accessed.
General obstructions	Any area or space, which involved the moving of fixed equipment, would not be accessed.
Fire doors	Fire doors may internally contain asbestos. Representative access to fire doors will usually be made so far as is reasonably practicable and these should be stated in the report.
Fixed ceilings and wall/floor cavities	Limited representative inspections would be made in specific locations in accordance with our technical procedures. There remains the possibility of ACMs remaining in voids that have not been accessed.
Insulation to plant equipment and pipes	Limited representative inspections would be made in specific locations in accordance with our technical procedures. There remains the possibility of ACMs remaining in areas outside of the immediate sampling/inspection point.
Ventilation ducts	No access would be made within ventilation ducting. There is a possibility that asbestos gasket material or an asbestos lining may be present.
Ducts and risers	Limited representative inspections would be made in targeted locations as stated in the report. There remains however the possibility of ACMs remaining in ducts or risers that have not been accessed.
Any area, room or space occupied at the time of the survey	Access to any occupied areas would be presumptive only. Consequently such areas are excluded from the scope of the Predemolition / Pre-refurbishment Asbestos Survey. Unrestricted and safe access must be provided by the client in the event that such areas are to be inspected at a later date. NSUK reserves the right to charge additional fees for any re-visits as required after consultation with the client.
Any area, room or space flooded at the time of the survey	No access would be made within any flooded areas unless the client can ensure unrestricted and safe access. NSUK reserves the right to charge additional fees for any re-visits as required after consultation with the client.

FS28554 Page 8 of 33

## **Survey Information**

### **Specific Exclusions**

Where detailed, it was agreed at the pre-survey stage that the following room/locations would be excluded from the scope of Survey. The room/locations do not include more general exclusions (i.e. inaccessible room/locations/items) detailed elsewhere.

Area/floor	Room/location
No Room/locations Found.	

No responsibility is accepted for the presence of asbestos in voids (under floor, floor, wall or ceiling) other than those opened up during the investigation (unless agreed at the pre-survey stage).

Areas requiring specialist access arrangements or equipment (other than stepladders) will not be assessed unless otherwise stated and agreed at the pre-survey stage. Fire doors were not inspected internally to ascertain if they are manufactured using ACMs as to do so would entail overly destructive testing procedures.

FS28554 Page 9 of 33

## **Survey Results**

## Recommendations

Item	Sample	Product/debris Type	Area/floor	Room/location	Action/recommendations
001	NS18241-001	Cement Product(s) Corrugated Profile Sheet(s)	001 - Building 1 - Ground Floor	001	Remove Remove ACM (Bonded) under PCC by FLC
002	NS18241-001	Cement Product(s) Corrugated Profile Sheet(s)	001 - Building 1 - Ground Floor	001	Remove Remove ACM (Bonded) under PCC by FLC
004	NS18241-002	Cement Product(s) Rainwater Good(s)	002 - Building 2 - Ground Floor	002	Remove Remove ACM (Bonded) under PCC by FLC
003	NS18241-001	Cement Product(s) Corrugated Profile Sheet(s)	002 - Building 2 - Ground Floor	002	Remove Remove ACM (Bonded) under PCC by FLC
006	NS18241-003	Cement Product(s) Corrugated Profile Sheet(s)	003 - Building 3 - Ground Floor	004	Remove Remove ACM (Bonded) under PCC by FLC
005	NS18241-001	Cement Product(s) Corrugated Profile Sheet(s)	003 - Building 3 - Ground Floor	004	Remove Remove ACM (Bonded) under PCC by FLC
007	NS18241-002	Cement Product(s) Rainwater Good(s)	003 - Building 3 - Ground Floor	004	Remove Remove ACM (Bonded) under PCC by FLC

## **Sample Summary**

Sample	Product/debris Type	Area/floor	Room/location	Asbestos Type
NS18241-001	Cement Product(s) Corrugated Profile Sheet(s)	001 - Building 1 - Ground Floor	001	Identified Chrysotile
NS18241-002	Cement Product(s) Rainwater Good(s)	002 - Building 2 - Ground Floor	002	Identified Chrysotile
NS18241-003	Cement Product(s) Corrugated Profile Sheet(s)	003 - Building 3 - Ground Floor	004	Identified Chrysotile

FS28554 Page 10 of 33

## **Room/location Details including Construction Details**



#### **Room/location Details**

Room/location Reference:
Room/location Description:
Area/floor Reference:
Area/floor Description:
Accessibility:

Total ACMs:
Total NoACMs:

001

Large Storage Area

001 - Building 1 - Ground Floor

Commercial Accessible

2

#### **Room/location Construction Details**

Ceiling: Sampled corrugated cement roof sheeting

Walls: Breezeblock, Concrete, Sampled corrugated cement wall panels

Floor: Concrete, Earth

Doors: N/A
Windows: N/A
Comments:

FS28554 Page 11 of 33





 Item ID
 001(OS)

 Referenced to
 NS18241-001

Property Name Specified areas of 3 Farm Buildings in Hole Farm Area/floor 001 - Building 1 - Ground Floor Room/location 001

Specific location Ceiling

Product/debris type Cement Product(s) Corrugated Profile Sheet(s)
Asbestos type Identified Chrysotile

Extent 100 m²
Licensed/non-licensed N/A

## Material Assessment

Air Test

Product Type (a)	1	Priority Assessment	
Extent of Damage (b)	1	Normal Occupant Activity (e)	0
Surface Treatment (c)	1	Likelihood of Disturbance (f)	1
Asbestos Fibre (d)	1	Human Exposure Potential (g)	0
Total (a+b+c+d)	04	Maintenance Activity (h)	0
Material Risk Assessment	Very Low	Total (e+f+g+h)	01
		Priority Risk Assessment	Very Low

## **Overall Assessment**

Total (a+b+c+d+e+f+g+h) 05 **Comments**Overall Risk Assessment Very Low

## Actions/recommendations

Action/recommendations Remove Remove ACM (Bonded) under PCC by FLC

FS28554 Page 12 of 33





 Item ID
 002(VRS)

 Sample Linked/ID
 NS18241-001

Property Name Specified areas of 3 Farm Buildings in Hole Farm Area/floor 001 - Building 1 - Ground Floor Room/location 001

Specific location Ceiling

Product/debris type Cement Product(s) Corrugated Profile Sheet(s)
Asbestos type Strongly Presumed Chrysotile

Extent 60 m²
Licensed/non-licensed N/A

Air Test

#### **Material Assessment**

Product Type (a)	1	Priority Assessment	
Extent of Damage (b)	1	Normal Occupant Activity (e)	0
Surface Treatment (c)	1	Likelihood of Disturbance (f)	1
Asbestos Fibre (d)	1	Human Exposure Potential (g)	0
Total (a+b+c+d)	04	Maintenance Activity (h)	0
Material Risk Assessment	Very Low	Total (e+f+g+h)	01
		Priority Risk Assessment	Very Low

#### **Overall Assessment**

Total (a+b+c+d+e+f+g+h) 05 Comments

Overall Risk Assessment Very Low

#### **Actions/recommendations**

Action/recommendations Remove Remove ACM (Bonded) under PCC by FLC

FS28554 Page 13 of 33



#### **Room/location Details**

Room/location Reference: Room/location Description: Area/floor Reference: Area/floor Description: Accessibility:

,

Total ACMs: Total NoACMs: 002

Large Storage Space

002 - Building 2 - Ground Floor

Commercial Accessible

2

0

#### **Room/location Construction Details**

Ceiling: Sampled corrugated cement roof sheeting

Walls: Breezeblock, TimberFloor: Concrete, Earth

Doors: N/A Windows: N/A Comments:

FS28554 Page 14 of 33





 Item ID
 004(OS)

 Referenced to
 NS18241-002

Property Name Specified areas of 3 Farm Buildings in Hole Farm
Area/floor 002 - Building 2 - Ground Floor
Room/location 002

Specific location Other Rainwater goods

Product/debris type Cement Product(s) Rainwater Good(s)
Asbestos type Identified Chrysotile

donumed offings

Licensed/non-licensed N/A

Air Test

Extent

#### **Material Assessment**

Product Type (a)	1	Priority Assessment	
Extent of Damage (b)	1	Normal Occupant Activity (e)	0
Surface Treatment (c)	1	Likelihood of Disturbance (f)	1
Asbestos Fibre (d)	1	Human Exposure Potential (g)	0
Total (a+b+c+d)	04	Maintenance Activity (h)	0
Material Risk Assessment	Very Low	Total (e+f+g+h)	01
		Priority Risk Assessment	Very Low

54 m

#### **Overall Assessment**

Total (a+b+c+d+e+f+g+h) 05 **Comments**Overall Risk Assessment Very Low

#### **Actions/recommendations**

Action/recommendations Remove Remove ACM (Bonded) under PCC by FLC

FS28554 Page 15 of 33





 Item ID
 003(VRS)

 Sample Linked/ID
 NS18241-001

Property NameSpecified areas of 3 Farm Buildings in Hole FarmArea/floor002 - Building 2 - Ground FloorRoom/location002

Specific location Ceiling

Product/debris type Cement Product(s) Corrugated Profile Sheet(s)

Asbestos type Strongly Presumed Chrysotile

Extent 450 m²
Licensed/non-licensed N/A

Air Test

#### **Material Assessment**

Product Type (a)	1	Priority Assessment	
Extent of Damage (b)	1	Normal Occupant Activity (e)	0
Surface Treatment (c)	1	Likelihood of Disturbance (f)	1
Asbestos Fibre (d)	1	Human Exposure Potential (g)	0
Total (a+b+c+d)	04	Maintenance Activity (h)	0
Material Risk Assessment	Very Low	Total (e+f+g+h)	01
		Priority Risk Assessment	Very Low

#### **Overall Assessment**

Total (a+b+c+d+e+f+g+h)

Overall Risk Assessment

Other Comments

Very Low

#### **Actions/recommendations**

Action/recommendations Remove Remove ACM (Bonded) under PCC by FLC

FS28554 Page 16 of 33



#### **Room/location Details**

Room/location Reference: Room/location Description: Area/floor Reference: Area/floor Description:

Accessibility:

Reason for No Access:

Total ACMs: Total NoACMs: 003 Barn

003 - Building 3 - Ground Floor

Commercial Inaccessible Locked

0

#### **Room/location Construction Details**

Ceiling: Walls: Floor: Doors: Windows:

Comments:

FS28554 Page 17 of 33



#### **Room/location Details**

Room/location Reference: Room/location Description: Area/floor Reference: Area/floor Description: Accessibility:

Total ACMs: Total NoACMs:

#### **Room/location Construction Details**

Ceiling: Sampled corrugated cement roof sheeting

Walls: Breezeblock, Metal, Timber

Floor: Concrete, Earth

Doors: Metal
Windows: N/A
Comments:

004

Barn (External)

003 - Building 3 - Ground Floor

Commercial Accessible

3





 Item ID
 006(OS)

 Referenced to
 NS18241-003

Property Name
Specified areas of 3 Farm Buildings in Hole Farm
Area/floor
Room/location
Specified areas of 3 Farm Buildings in Hole Farm
003 - Building 3 - Ground Floor
004

Specific location Wall

Product/debris type Cement Product(s) Corrugated Profile Sheet(s)
Asbestos type Identified Chrysotile

Extent 250 m²
Licensed/non-licensed N/A

Air Test

#### **Material Assessment**

Product Type (a)	1	Priority Assessment	
Extent of Damage (b)	1	Normal Occupant Activity (e)	0
Surface Treatment (c)	1	Likelihood of Disturbance (f)	1
Asbestos Fibre (d)	1	Human Exposure Potential (g)	0
Total (a+b+c+d)	04	Maintenance Activity (h)	0
Material Risk Assessment	Very Low	Total (e+f+g+h)	01
		Priority Risk Assessment	Very Low

#### **Overall Assessment**

Total (a+b+c+d+e+f+g+h) 05 **Comments**Overall Risk Assessment Very Low

#### **Actions/recommendations**

Action/recommendations Remove Remove ACM (Bonded) under PCC by FLC

FS28554 Page 19 of 33





 Item ID
 005(VRS)

 Sample Linked/ID
 NS18241-001

Property Name Specified areas of 3 Farm Buildings in Hole Farm Area/floor 003 - Building 3 - Ground Floor Room/location 004

Specific location Ceiling

Product/debris type Cement Product(s) Corrugated Profile Sheet(s)
Asbestos type Strongly Presumed Chrysotile

Extent 300 m²
Licensed/non-licensed N/A

Air Test

#### **Material Assessment**

Product Type (a)	1	Priority Assessment	
Extent of Damage (b)	1	Normal Occupant Activity (e)	0
Surface Treatment (c)	1	Likelihood of Disturbance (f)	1
Asbestos Fibre (d)	1	Human Exposure Potential (g)	0
Total (a+b+c+d)	04	Maintenance Activity (h)	0
Material Risk Assessment	Very Low	Total (e+f+g+h)	01
		Priority Risk Assessment	Very Low

#### **Overall Assessment**

Total (a+b+c+d+e+f+g+h) 05 **Comments**Overall Risk Assessment Very Low

## Actions/recommendations

Action/recommendations Remove Remove ACM (Bonded) under PCC by FLC

FS28554 Page 20 of 33





 Item ID
 007(VRS)

 Sample Linked/ID
 NS18241-002

Property Name
Specified areas of 3 Farm Buildings in Hole Farm
Area/floor
Room/location
Specified areas of 3 Farm Buildings in Hole Farm
003 - Building 3 - Ground Floor
004

Specific location Other Rainwater goods

Product/debris type Cement Product(s) Rainwater Good(s)

Asbestos type Strongly Presumed Chrysotile

Extent 40 m
Licensed/non-licensed N/A

Air Test

#### **Material Assessment**

Product Type (a)	1	Priority Assessment	
Extent of Damage (b)	1	Normal Occupant Activity (e)	0
Surface Treatment (c)	1	Likelihood of Disturbance (f)	1
Asbestos Fibre (d)	1	Human Exposure Potential (g)	0
Total (a+b+c+d)	04	Maintenance Activity (h)	0
Material Risk Assessment	Very Low	Total (e+f+g+h)	01
		Priority Risk Assessment	Very Low

## **Overall Assessment**

Total (a+b+c+d+e+f+g+h) 05 **Comments**Overall Risk Assessment Very Low

#### **Actions/recommendations**

Action/recommendations Remove Remove ACM (Bonded) under PCC by FLC

FS28554 Page 21 of 33

#### **Asbestos Register**





Item ID 001(OS) Referenced to NS18241-001 Property Name Specified areas of 3 Farm Buildings in Hole Farm Area/floor

001 - Building 1 - Ground Floor Room/location Specific location Ceiling

Product/debris type

Cement Product(s) Corrugated Profile Sheet(s) Asbestos type Identified Chrysotile Extent 100 m<sup>2</sup> N/A

Licensed/non-licensed Air Test

Actions/recommendations Remove Remove ACM (Bonded) under PCC by FLC Action/recommendations

**Material Assessment** 

Product Type (a) Extent of Damage (b) Surface Treatment (c) Asbestos Fibre (d) Total (a+b+c+d)

Material Risk Assessment **Priority Assessment** 

Normal Occupant Activity (e) Likelihood of Disturbance (f) Human Exposure Potential (g) Maintenance Activity (h) Total (e+f+g+h)

Priority Risk Assessment

Overall Assessment Total (a+b+c+d+e+f+g+h)

Overall Risk Assessment

Comments

Verv Low





Location

Item ID 002(VRS) Sample Linked/ID NS18241-001 Property Name Specified areas of 3 Farm Buildings in Hole Farm Area/floor 001 - Building 1 - Ground Floor Room/location 001 Specific location Product/debris type Cement Product(s) Corrugated Profile Sheet(s) Asbestos type Strongly Presumed Chrysotile

Extent 60 m<sup>2</sup> Licensed/non-licensed

Actions/recommendations

Remove Remove ACM (Bonded) under PCC by FLC Action/recommendations

**Material Assessment** 

Product Type (a) Extent of Damage (b) Surface Treatment (c) Asbestos Fibre (d) Total (a+b+c+d)

Material Risk Assessment

**Priority Assessment** Normal Occupant Activity (e) Likelihood of Disturbance (f) Human Exposure Potential (g) Maintenance Activity (h) Total (e+f+g+h)

Priority Risk Assessment **Overall Assessment** Total (a+b+c+d+e+f+g+h)

Overall Risk Assessment

Comments

Very Low

Verv Low





Location

Item ID 004(OS) Referenced to NS18241-002 Property Name Specified areas of 3 Farm Buildings in Hole Farm Area/floor 002 - Building 2 - Ground Floor Room/location 002 Other Rainwater goods Specific location Product/debris type Cement Product(s) Rainwater Good(s) Asbestos type Identified Chrysotile Extent 54 m Licensed/non-licensed N/A

Air Test Actions/recommendations

Action/recommendations Remove Remove ACM (Bonded) under PCC by FLC Material Assessment

Product Type (a) Extent of Damage (b) Surface Treatment (c) Asbestos Fibre (d) Total (a+b+c+d)

Material Risk Assessment

Priority Assessment Normal Occupant Activity (e) Likelihood of Disturbance (f) Human Exposure Potential (g) Maintenance Activity (h) Total (e+f+g+h)

Priority Risk Assessment **Overall Assessment** 

Overall Risk Assessment Comments

0

01

Page 22 of 33 FS28554





NS18241-001

Location

Item ID Sample Linked/ID Property Name

Area/floor Room/location Specific location Product/debris type

Asbestos type Extent Licensed/non-licensed

Air Test

Actions/recommendations

Action/recommendations

003(VRS)

Specified areas of 3 Farm Buildings in Hole Farm

002 - Building 2 - Ground Floor 002

Ceiling

Cement Product(s) Corrugated Profile Sheet(s)

Strongly Presumed Chrysotile

450 m<sup>2</sup> N/A

Remove Remove ACM (Bonded) under PCC by FLC

Material Assessment

Product Type (a) Extent of Damage (b) Surface Treatment (c) Asbestos Fibre (d) Total (a+b+c+d)

Material Risk Assessment Priority Assessment

Normal Occupant Activity (e) Likelihood of Disturbance (f) Human Exposure Potential (g) Maintenance Activity (h) Total (e+f+g+h)

Priority Risk Assessment Overall Assessment

Total (a+b+c+d+e+f+g+h)

Overall Risk Assessment

Very Low 0 0 0



NS18241-003

004

Wall

Location

Item ID Referenced to Property Name Area/floor

Room/location Specific location Product/debris type

Asbestos type

Licensed/non-licensed

Air Test

Actions/recommendations Action/recommendations

Cement Product(s) Corrugated Profile Sheet(s) Identified Chrysotile 250 m² N/A

003 - Building 3 - Ground Floor

Remove Remove ACM (Bonded) under PCC by FLC

Specified areas of 3 Farm Buildings in Hole Farm

**Material Assessment** 

Product Type (a) Extent of Damage (b) Surface Treatment (c) Asbestos Fibre (d) Total (a+b+c+d)

Material Risk Assessment **Priority Assessment** 

Normal Occupant Activity (e) Likelihood of Disturbance (f) Human Exposure Potential (g) Maintenance Activity (h) Total (e+f+g+h)

Priority Risk Assessment Overall Assessment Total (a+b+c+d+e+f+g+h)

Overall Risk Assessment Comments

Very Low

0 0

05

Item



Location

Item ID Sample Linked/ID Property Name Area/floor Room/location Specific location Product/debris type Asbestos type Extent Licensed/non-licensed

Actions/recommendations

Action/recommendations

005(VRS)

NS18241-001

Specified areas of 3 Farm Buildings in Hole Farm

003 - Building 3 - Ground Floor 004

Ceiling

Cement Product(s) Corrugated Profile Sheet(s)

Strongly Presumed Chrysotile 300 m<sup>2</sup>

N/A

Remove Remove ACM (Bonded) under PCC by FLC

Material Assessment

Product Type (a) Extent of Damage (b) Surface Treatment (c) Asbestos Fibre (d) Total (a+b+c+d)

Material Risk Assessment **Priority Assessment** 

Normal Occupant Activity (e) Likelihood of Disturbance (f) Human Exposure Potential (g) Maintenance Activity (h) Total (e+f+g+h)

Priority Risk Assessment Overall Assessment Total (a+b+c+d+e+f+g+h)

Overall Risk Assessment

Comments

Very Low 0 0 Very Low

FS28554 Page 23 of 33





Location

Item ID Sample Linked/ID Property Name Area/floor

Room/location Specific location Product/debris type Asbestos type

Extent Licensed/non-licensed

Actions/recommendations

Action/recommendations

007(VRS)

NS18241-002 Specified areas of 3 Farm Buildings in Hole Farm 003 - Building 3 - Ground Floor

004

Other Rainwater goods Cement Product(s) Rainwater Good(s) Strongly Presumed Chrysotile

40 m N/A

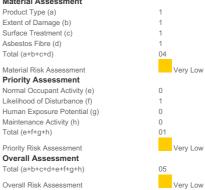
Remove Remove ACM (Bonded) under PCC by FLC

Material Assessment

Extent of Damage (b) Surface Treatment (c) Asbestos Fibre (d) Total (a+b+c+d)

Normal Occupant Activity (e) Likelihood of Disturbance (f)
Human Exposure Potential (g) Maintenance Activity (h)

Overall Risk Assessment



FS28554 Page 24 of 33

## **Survey Results**

## **Overall Risk Assessment Table**

	Material Risk Assessment						Priori	ty Ris	k Ass	essment	Overall Risk Assessment	
Item	a b c d Total		е	f	g	h	Total	Total				
001	1	1	1	1	04	0	1	0	0	01	05	
002	1	1	1	1	04	0	1	0	0	01	05	
004	1	1	1	1	04	0	1	0	0	01	05	
003	1	1	1	1	04	0	1	0	0	01	05	
006	1	1	1	1	04	0	1	0	0	01	05	
005	1	1	1	1	04	0	1	0	0	01	05	
007	1	1	1	1	04	0	1	0	0	01	05	

 $\blacksquare$  (20  $\geq$  ) High  $\blacksquare$  (14-19) Medium  $\blacksquare$  (10-13) Low  $\blacksquare$  ( $\leq$  9) Very Low  $\blacksquare$  (0) No Risk

FS28554 Page 25 of 33

## **Survey Results**

## **Summary of Remedial or Removal Works**

Item	Sample	Product/debris Type	Area/floor	Room/location	Action/recommendations
001	NS18241-001	Cement Product(s) Corrugated Profile Sheet(s)	001 - Building 1 - Ground Floor	001	Remove Remove ACM (Bonded) under PCC by FLC
002	NS18241-001	Cement Product(s) Corrugated Profile Sheet(s)	001 - Building 1 - Ground Floor	001	Remove Remove ACM (Bonded) under PCC by FLC
004	NS18241-002	Cement Product(s) Rainwater Good(s)	002 - Building 2 - Ground Floor	002	Remove Remove ACM (Bonded) under PCC by FLC
003	NS18241-001	Cement Product(s) Corrugated Profile Sheet(s)	002 - Building 2 - Ground Floor	002	Remove Remove ACM (Bonded) under PCC by FLC
006	NS18241-003	Cement Product(s) Corrugated Profile Sheet(s)	003 - Building 3 - Ground Floor	004	Remove Remove ACM (Bonded) under PCC by FLC
005	NS18241-001	Cement Product(s) Corrugated Profile Sheet(s)	003 - Building 3 - Ground Floor	004	Remove Remove ACM (Bonded) under PCC by FLC
007	NS18241-002	Cement Product(s) Rainwater Good(s)	003 - Building 3 - Ground Floor	004	Remove Remove ACM (Bonded) under PCC by FLC

FS28554 Page 26 of 33

## **Material Risk Assessment Algorithm**

Material assessments consider the type and condition of the ACM and the ease with which it will release fibres when subject to disturbance. The main parameters are:

- a. Product Type
- b. Extent of Damage & Deterioration
- c. Surface Treatments
- d. Asbestos Types

The material assessment will give a good initial guide to the priority for management as it will identify the materials which will most readily release airborne fibres if disturbed. It does not automatically follow that those materials assigned the highest score will be the priority for remedial action, such priorities must be determined by conducting and subsequently considering the results of a priority assessment.

To achieve some form of standardisation of the risk rating and action level, the assessment algorithm contained within HSG264 has been adopted, which is based upon a numerical rating given to each of the parameters considered above. The addition of each number results in a score that falls into one of four possible risk categories, which can assist the duty holder to prioritise the need for action as part of the plan for managing asbestos.

Assessment Factor	Score	Score Variables						
Product Type (a)	1	Asbestos Reinforced Composites (Plastics, Resins, Mastics, Roofing Felts, Vinyl Floor Tiles, Semi-Rigid Paints, Decorative Finishes, Asbestos Cement)						
	2	Asbestos Insulating Board (AIB), Millboards, Other Low-Density Insulation Boards, Asbestos Textiles, Gaskets, Ropes, Woven Textiles and Asbestos Paper or Felt						
	3	Thermal Insulating (e.g. Pipe and Boiler Lagging) Sprayed Asbestos, Loose Asbestos, Asbestos Mattresses and Packing						
Extent of	0	Good Condition: No Visible Damage						
Damage (b)	1	Low Damage: A Few Scratches or Surface Marks, Broken Edges on Boards or Tiles						
	2	Medium Damage: Significant Breakage of Material or Several Small Areas where Material has been Damaged Rev Loose Asbestos Fibre						
	3	High Damage: Delaminating of Materials, Sprays and Thermal Insulation, Visible Asbestos Debris						
Surface	0	Composite Materials Containing Asbestos: Reinforced Plastics, Resins, Vinyl Tiles						
Treatment (c)	1	Enclosed Sprays and lagging, AIB with Exposed Face Painted or Encapsulated, Asbestos Cement Sheets etc						
	2	Unsealed AIB or Encapsulated Lagging and Sprays						
	3	Unsealed Lagging and Sprays						
Asbestos Type	1	Chrysotile (White)						
(d)	2	Amphibole Asbestos, Amosite (Brown), Actinolite, Anthophyllite and Tremolite						
	3	Crocidolite (Blue)						

FS28554 Page 27 of 33

#### **Material Classifications**

The following material assessment categories are used within this survey and indicate the level of hazard each material presents.

### (10≥) High

ACMs in this category are regarded as having a significant potential to release fibres if disturbed. Such ACMs require urgent consideration to ensure people are not exposed to the hazard. In most circumstances plans for removal should be implemented and in the interim, the affected area should be sealed off.

#### (7-9) Medium

ACMs within this category do not always pose an imminent threat and the likelihood of fibre release is moderate under existing conditions. A decision regarding how these ACMs are to be managed should be made promptly and most likely as part of an overall management plan. Such situations should be regularly inspected to ascertain any change to circumstances unless serious damage is present or debris is visible, then this will require action which could involve removal or encapsulation.

#### (5-6) Low

ACMs within this category should be regarded as providing a low risk to people exposed to them but precautions should be followed and the situation should be monitored through regular re-inspections to ascertain any deterioration in condition which may occur with the passage of time. These ACMs generally have no or very little sign of historic damage.

## (≤4) Very Low

ACMs within this category do not generally present a significant risk. They should be managed and only considered to be removed if the item falls within a refurbishment and demolition area and the works are likely to disturb the material.

## (0) No Risk

No ACM present.

FS28554 Page 28 of 33

## **Priority Classifications**

Assessment Factor	Score	Score Variables					
Normal Occupant Activity (e)							
Main Type of Activity in Area	0	Rare Disturbance Activity (e.g. Little used Store Room)					
	1	Low Disturbance Activities (e.g. Office Type Activity)					
	2	Periodic Disturbance (e.g. Industrial or Vehicular Activity which may contact ACMs					
	3	High Levels of Disturbance (e.g. Door with AIB Sheeting in Constant Use)					
Secondary Activity in Area	As Above	As Above					
Likelihood of Disturbance (f)							
Location	0	Outdoors					
	1	Large Rooms or Well Ventilated Areas					
	2	Rooms up to 100m <sup>2</sup>					
	3	Confined Spaces					
Accessibility	0	Usually Inaccessible or Unlikely to be Disturbed					
	1	Occasionally Likely to be Disturbed					
	2	Easily Disturbed					
	3	Routinely Disturbed					
Extent / Amount	0	Small Amounts or Items (e.g. Gaskets or Strings)					
	1	≤10m² or ≤ 10m Pipe Run					
	2	>10m² to 50m² or >10m to 50m Pipe Run					
	3	>50m² or >50m Pipe Run					
Human Exposure Potential (g)							
Number of Occupants	0	None					
	1	1 to 3					
	2	4 to 10					
	3	>10					
Frequency of Use in Area	0	Infrequent					
	1	Monthly					
	2	Weekly					
	3	Daily					
Average Time Area is in Use	0	<1 Hour					
	1	>1 to <3 Hours					
	2	>3 to <6 Hours					
	3	>6 Hours					
Maintenance Activity (h)							
Type of Maintenance Activity	0	Minor Disturbance (e.g. Possibility of Contact when Gaining Access)					
	1	Low Disturbance (e.g. Changing Light Bulbs in AIB Ceiling)					
	2	Medium Disturbance (e.g. Lifting One or Two AIB Ceiling Tiles to access valves)					
	3	High Level of Disturbance (e.g. Removing a Number of AIB Ceiling Tiles to Replace a Valve or Recabling Works)					
Frequency of Maintenance	0	ACM Unlikely to be Disturbed for Maintenance					
Activity	1	≤1 per Year					
	2	>1 per Year					
	3	>1 per Month					

FS28554 Page 29 of 33

#### **Priority Risk Assessment Algorithm**

Priority assessments consider the likelihood of someone disturbing the identified/presumed ACM during normal occupancy and should be considered alongside the material assessment to determine the priority for remedial action. The main assessment factors are:

- e. Maintenance Activity
- f. Occupant Activity
- g. Likelihood of Disturbance
- h. Human Exposure Potential

Similar to a material assessment, a material algorithm based upon a numerical rating given to each of the parameters considered above has been employed in line with HSG227. The number against each assessment factor is averaged and then totalled to give a score that falls into one of four possible risk categories, aimed at calculating the level of risk those in the vicinity of the ACM are exposed to.

#### (10≥) High

An ACM that due to its location presents an unacceptable risk to individuals.

#### (7-9) Medium

An ACM situated in a high use, readily accessible position which may also be in an area routinely accessed for maintenance.

## (5-6) Low

An ACM that will rarely be disturbed through normal occupation or maintenance activities.

## (≤4) Very Low

An ACM that is not readily accessible and unlikely to be disturbed.

## (0) No Risk

No ACM present.

Disturbance Primary (e)	0
Disturbance Secondary (e)	Average Score 0
Location (f) Accessibility (f) Extent / Amount (f)	0 0 0 Average Score 0
Number of Occupants (g) Frequency of Use (g) Average Time in Use (g)	0 0 0 Average Score 0
Type of Maintenance (h) Frequency of Maintenance (h)	0 0 Average Score 0
Total of Averages (e+f+g+h)	00
Priority Risk Assessment	Risk

FS28554 Page 30 of 33

#### **Overall Risk Assessment Algorithm**

The overall assessment is a combination of the material and priority assessment scores. It is this total score that may be used to establish the priority of those ACMs requiring remedial action and also, the type of action that will be taken. Where an ACM is detected, regardless of its risk categorisation, it is recommended that Approved Warning Labels are positioned to prevent accidental damage to the material.

Although actions and recommendations may vary according to the individual circumstances of an ACM, it is desirable to have some form of standardisation therefore the following categories are used within this survey to identify areas that require immediate attention and allow the duty holder to instigate planned preventative maintenance and management of the ACMs.

	Material Risk Assessment					Priority Risk Assessment					Overall Risk Assessment		
Item	а	b	С	d	Total	е	f	g	h	Total	Total		
1000	0	0	0	0	00	0	0	0	0	00	00		

#### **Overall Classifications**

#### (20≥) High

The potential hazard arising from this category warrants urgent action to reduce the associated risk as disturbance of the materials is liable to expose personnel to elevated levels of airborne respirable asbestos fibres. ACMs in this category are usually not suited to any form of containment programme and therefore immediate plans should be made for removal or environmental cleaning. Where this is delayed, the ACM should be sealed/encapsulated and appropriately managed in accordance with the asbestos management policy, until such time that removal can be facilitated.

#### (14-19) Medium

This category indicates that deterioration in any of the contributory factors may result in fibre release and therefore all ACMs should be removed or other appropriate remedial action undertaken on a programmed basis within a specified time scale (usually 6-12 months). The condition of the ACMs should be regularly monitored and, where necessary sealed/encapsulated until removal takes place.

## (10-13) Low

This category indicates the need for regular monitoring and inspection as whilst the current risk of fibre release may be low, such ACMs may suffer deterioration through age and/or accidental damage. It is recommended that ACMs in this category are visually inspected on a six month cycle (minimum) to ascertain any change in condition. Where such a change occurs, re-prioritisation may be necessary.

## (≤9) Very Low

ACMs within this category are predominantly not readily accessible, unlikely to be disturbed and due to their nature, condition, location or extent, would lead to minimal fibre release if they were disturbed. Visual inspections should be made on an annual basis to ascertain any change in condition and where such a change occurs, should be appropriately assessed, scored and re-prioritised. Such ACMs should be suitably managed and considered for removal if they falls within a demolition or refurbishment area and works are likely to disturb the material.

(0) No Risk No ACM present.

FS28554 Page 31 of 33

## **Survey Appendices**

#### **Remedial Options**

There are a variety of remedial options available. In many cases the ACMs can be protected or enclosed, sealed or encapsulated, or repaired and these options should be considered first. Where such actions are not practical, ACMs should be removed. Recommended action in the Refurbishment Survey will normally involve one or more of the following:

#### Removal

ACMs vulnerable to damage should often be removed. Where they are in such poor condition, removal is often the only practical option. Removal is required where refurbishment or demolition works are planned that will impinge on the ACMs present.

#### Management

Management of the ACMs present (where these are not in poor condition or vulnerable to damage) is achieved by labelling, registering and monitoring as necessary. Such management should be undertaken in compliance with CAR 2012.

#### **Monitor**

Re-inspection of ACMs should be undertaken at regular intervals determined by the risk priority and by a trained, suitably experienced and competent person. This may be accompanied by air testing where relevant to determine whether any asbestos fibres are present.

#### Label

Where an ACM is detected, regardless of its risk categorisation, it is recommended that approved industry specific warning labels are positioned to prevent accidental damage to the material.

#### Protection/enclosure

Undertake enclosure where the ACM is in poor condition or vulnerable to damage. This involves protection by a physical barrier, such as a timber casing. The casing is sealed and as airtight as possible to prevent the migration of fibres.

#### Sealed/encapsulate

There are two methods of encapsulation: applying a durable layer adhered to the surface of the ACM, or applying a material that penetrates the ACM before hardening which locks the material together.

#### Repair

All repairs should be undertaken by a competent person with the relevant training and equipment. Repair should only be undertaken if the damage is slight. There are a number of methods including filling, wrapping and isolated encapsulation. All repairs will be carried out using non-asbestos containing materials and appropriate precautions undertaken to prevent the release of any asbestos fibres.

#### Remove

The HSE recommend against removal of asbestos if the removal is undertaken without due consideration of the potential to increase the risk of harm. ACMs should be removed where found to be in poor condition, if it is not possible to undertake maintenance works without disturbance, or refurbishment works are due to be undertaken. Only HSE licensed contractors may be appointed to deal with work that contains 'high risk' ACMs.

#### **Periodic Air Test**

Where there is a large amount of ACMs in a confined space with a history of unauthorised disturbance, periodic air tests may be undertaken to monitor asbestos fibre levels to confirm that it is safe to access the area.

FS28554 Page 32 of 33

## **Survey Appendices**

### **Regulations and Guidance**

#### Legislation

The Health & Safety at Work Act (1974) and The Management of Health and Safety at Work Regulations (1999) collectively require employers to provide a safe workplace for all their employees and those affected by their activities.

Asbestos specifically and work with asbestos is covered by specialist regulations known as The Control of Asbestos Regulations 2012 (CAR 2012). The duty to manage requires those in control of the premises to:

- 1. Take reasonable steps to determine the location and condition of ACMs.
- 2. Presume materials contain asbestos unless there is strong evidence that they do not.
- 3. Set up and maintain a record of the location and condition of the ACMs or presumed ACMs in premises.
- 4. Assess the risk of the likelihood of anyone being exposed to fibres from these ACMs.
- 5. Prepare a plan setting out how the risks from the ACMs are to be managed.
- 6. Take the necessary steps to put the plan into action.
- 7. Review and monitor the plan periodically.
- 8. Provide information on the location and condition of the materials to anyone who is liable to work on or disturb them.

#### **Approved Codes of Practice and Guidance Documents**

There is a raft of publications that disseminate advice and information relating to asbestos which should be consulted by those who work with or have an obligation to manage ACMs (please note this list is not exhaustive).

- 1. L143 'Managing and Work with asbestos'
- 2. HSG210 'Asbestos essentials task manual'
- 3. HSG227 'A comprehensive guide to managing asbestos in premises'
- 4. HSG247 'Asbestos: The licensed contractors' guide'
- 5. HSG248 'Asbestos: The analysts' guide for sampling, analysis and clearance procedures'
- 6. HSG264 'Asbestos: The survey guide'
- 7. INDG223 'Managing asbestos in building: A brief guide'

The HSE has also published 38 'Asbestos essentials task sheets' and 10 'Equipment and Method sheets' which can help ensure compliance with CAR 2012 and illustrate 'good practice'.

FS28554 Page 33 of 33



Client:



## **CERTIFICATE FOR IDENTIFICATION OF ASBESTOS FIBRES**

**NSUK GROUP** 

STANDARD
PREMIUM
<b>EMERGENCY</b>

	L		BULK 001-VER 8 14	-JUN-22-QCM					
Allarysea by.	1. 0.001		Print name:	S.BOLTON – Q.C	Q.C.M				
Analysed by:	T. CROOT		Authorised signatory:						
Note: All samp Note: This Cert Note: All Analy Note: Where a	ificate for Identifica sis is performed in I	for a minimulation of Asbe House on the end of the a	ample  um of six months. Reports & Reco  estos Fibres shall not be reproduce  e registered premises (below).  analysis report number this means	ed except in full without the	e written approval o				nat
-			0.000.12 / 200.0 27.1	<u> </u>					
3	003		GROUND FLOOR – BAR	111	CHRYSOTILE				
2	002	GROC	GROUND FLOOR – LARGE ST	-	CHRYSOTILE				
SAMPLE No.	SAMPLE No.	GPOL	JND FLOOR – LARGE STORAGE SA		S _ CEMENT	CHRYSOTILE			
method of tran If samples have Services Limite	smitted/polarised li e been DELIVERED d are not responsib	ght microsco the site add le for the ac	peen examined to determine the popy and centre stop dispersion states and actual sample location is accuracy or competence of the sample sample for the interpretation of the Sample	ining, based on HSE's HSG as given by the client at the pling by third parties. Unde e results shown. Results rel	248. ne time of delivery. er these circumstan	Scopes A ces Scope ns tested.	sbesto es Asb	s Analy	rsis
Date of Analysi	s:	11/11/22			Ol	otained:	DELIVERED		
Date sample re	ceived:	11/11/22		No. of S	3				
Date sample ta	ken:	UNKNOWN	V	P	age No:	1	Of	1	
Site Address:		HOLE FAR GREAT WA BRENTWO CM13 3JD	ARLEY	Site	NS18241				
Attention:			L MANAGER		Repo	rt Date.	1	1/11/2	2
Address:			AD HOUSE HLEY ROAD NW3 6BT	Analysis Rep	Analysis Report No.				