

Report No.: J102751 V2
Nature of Work: Demolition Survey
Issue Date: 25/10/2018
Client Name: WYG Engineering Ltd
Geneva Building, Lake View Drive, Sherwood Business Park,
Annesley, Nottingham, NG15 0ED
Site Address: Murdoch & Jackson Buildings, Former City North Campus,
Birmingham City University, Perry Barr, B42 2US



Order Placed By: Reg 13(1)
Site Contact: Reg 13(1)
Date(s) of Work: 05/10/2018
Technical Manager: Reg 13(1) (Asbestos)
Assistant Surveyor(s): Reg 13(1)

Lead Surveyor:

Reg 13(1)

Authorised Signatory:

Reg 13(1)

Reg 13(1)

Asbestos Consultant

Reg 13(1)

Deputy Technical manager

25 Oct 2018

*Non-accredited tests are present within this report.

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1.0 Introduction & Scope of Work

A demolition survey in line with HSG264 Asbestos: The Survey Guide was carried out internally and externally to both Murdoch and Jackson Buildings.

Please note that this report was originally issued on 24/10/2018 and following a request from the client to clearly label the Murdoch and Jackson buildings the report has been updated and re-issued with a version 2 (V2) suffix. This report therefore supersedes J102751.

1.1 Aims & Objectives

The purpose of the survey was to locate, as far as reasonably practicable, the presence and extent of all suspect ACMs prior to demolition.

This survey was conducted for the specific project(s) stated above. Additional or alternative tasks over and above that mentioned will require a supplementary investigation to identify further ACMs that could potentially be disturbed by the task(s) at hand.

1.2 Caveats, Restrictions & Inaccessible Areas

The value and usefulness of a survey can be seriously undermined where either the client or the surveyor imposes restrictions on the survey scope (HSG264).

If any rooms were not accessed during the inspection, they will be indicated on the building plans (in yellow block) in section 5.

Where a room was accessed but specific elements within the room could not be inspected, caveats and their justification will be detailed in section 7.

It is strongly recommended that the client reviews the (general) caveats noted in sections 1.3 and/or 1.4 below, as well as the (room-specific) caveats cited in sections 5 and 7 as soon as possible upon receipt of the report. If the extent of access is less than required, the client should advise the Technical Management Team to arrange additional inspection work as necessary.

1.3 Pre-agreed Caveats:

No safe access was available internally to items of electrically connected plant and equipment. The presence of ACMs internally to such items may therefore have been presumed at the surveyor's discretion.

No access was required beyond ACMs (i.e. into voids or cavities etc) where the services of a licensed asbestos removal contractor would be required to provide safe access.

All land associated with the building such as surrounding grassed verges etc. are not included within the scope of these works and therefore remain unsurveyed.

All incoming services to the building were only investigated above ground level once they had entered the building therefore all sub ground water, gas and electric connections remain un-surveyed.

All outgoing services such as drainage routes were not included within the scope of these works and therefore remain un-surveyed.

All lift shafts will not be accessed as agreed with the client during the pre start period. therefore they will remain unsurveyed at this time

Please note that, although a thorough and methodical survey strategy was adopted, it is possible that further ACMs may be present, and are unreported in this survey. HSG264 Asbestos: the survey guide states that "It is now recognised that even with 'complete' access demolition surveys, all ACMs may not be identified and this only becomes apparent during demolition itself."

1.4 Surveyor Imposed Caveats:

No surveyor imposed caveats were noted during the survey.

1.5 UKAS Accreditation

Bradley Environmental are accredited by UKAS to both ISO17025 (testing) and ISO17020 (inspections). Please note that the following are outside the scope of UKAS Accreditation:

- Opinions & interpretations;
- Likelihood of disturbance risk assessment;
- Recommendations;
- The sample references cited in section 8.0.

1.6 'Licensable' Abatement

Where an asbestos-containing material is stated as being licensable within section 4 of this report, this is merely a qualified opinion and may not in practice be an absolute fact.

1.7 Extent of ACM Identified

Please note that the extents cited within this report are an approximation only and should not be used for the purposes of quoting asbestos removal works.

1.8 Presumption or Identification of ACMs

Where suspect materials have been located during this investigation, their asbestos content (or otherwise) will have been determined as follows:

A sample of the material will have been taken by the surveyor during the survey. This sample will then have been **analysed using polarised light microscopy** (PLM) to determine its asbestos content.

A material's asbestos content will have been **strongly presumed** where a visual inspection by the lead surveyor indicates the material is visually similar to other items present within the building which have been confirmed to contain asbestos (or otherwise) using PLM.

A material's asbestos content will have been **presumed** where it cannot be accessed or inspected.

2.0 Recommendations

Please note that where a management survey was carried out, individual recommendations related to safe management of each ACM has been cited by the surveyor in section 4.0.

Where a refurbishment or demolition survey was carried out, the recommendation for each item has been defaulted to 'program removal' in line with Regulation 7 of CAR2012.

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3.0 Executive Summary

As required by HSG264 Asbestos: The survey guide, the following sections contain an executive summary of the survey findings.

3.1 Executive Summary of Asbestos Containing Materials (ACMs) by Risk

The following pages show an executive summary of the ACMs located during these works ranked in order of risk (i.e. the highest risk item will be at the top of the page).

Sample No.:	Floor Level:	Block Name:	Location:	Item:	Asbestos Content:	Determination Method:	Extent:	Risk Category:	Recommendations:
DU002594	Ground Floor	Birmingham City University	NMUG09	Asbestos Bitumen flat roof covering	Chrysotile	Analysis of sample using PLM	50 m ²	C8	Program removal
DU002591	1st Floor	Birmingham City University	NMU101	Asbestos Bitumen adhesive	Chrysotile	Analysis of sample using PLM	12 m ²	C7	Program removal
DU002592	Ground Floor	Birmingham City University	NMUG13	Asbestos Reinforced plastic downpipe	Chrysotile	Analysis of sample using PLM	1 linear metres	C7	Program removal
As DU002593	Ground Floor	Birmingham City University	NMUG05	Asbestos Bitumen adhesive	Chrysotile	Strongly presumed	10 m ²	C7	Program removal
DU002601	Ground Floor	Birmingham City University	JACK G08	Asbestos Reinforced plastic downpipe	Chrysotile	Analysis of sample using PLM	3 linear metres	C7	Program removal
DU002593	Ground Floor	Birmingham City University	NMUG15	Asbestos Bitumen adhesive	Chrysotile	Analysis of sample using PLM	8 m ²	D6	Program removal

Sample No.:	Floor Level:	Block Name:	Location:	Item:	Asbestos Content:	Determination Method:	Extent:	Risk Category:	Recommendations:
As DU002593	Ground Floor	Birmingham City University	NMUG06	Asbestos Bitumen adhesive	Chrysotile	Strongly presumed	8 m ²	D6	Program removal
As DU002593	Ground Floor	Birmingham City University	NMUG07	Asbestos Bitumen adhesive	Chrysotile	Strongly presumed	8 m ²	D6	Program removal
As DU002593	Ground Floor	Birmingham City University	NMUG08	Asbestos Bitumen adhesive	Chrysotile	Strongly presumed	8 m ²	D6	Program removal
As DU002593	Ground Floor	Birmingham City University	NMUG09	Asbestos Bitumen adhesive	Chrysotile	Strongly presumed	8 m ²	D6	Program removal

3.2 Executive Summary of Non-Asbestos Material

The following pages show a summary of non-asbestos materials located during these works.

Sample No.:	Floor Level:	Block Name:	Location:	Item:	Asbestos Content:	Determination Method:	Extent:	Risk Category:	Recommendations:
DU002590	1st Floor	Birmingham City University	NMU104	Bitumen sink pad	No Asbestos Detected	Analysis of sample using PLM	1 unit	E0	Not applicable
DU002595	Ground Floor	Birmingham City University	NMUG99B	Bitumen adhesive	No Asbestos Detected	Analysis of sample using PLM	16 m ²	E0	Not applicable
DU002596	Ground Floor	Birmingham City University	JACK G01	Textured coating to plasterboard ceiling	No Asbestos Detected	Analysis of sample using PLM	3 m ²	E0	Not applicable
DU002597	Ground Floor	Birmingham City University	JACK G01	Textured coating to brickwork wall	No Asbestos Detected	Analysis of sample using PLM	8 m ²	E0	Not applicable
As DU002596	Ground Floor	Birmingham City University	JACK G02	Textured coating to plasterboard ceiling	No Asbestos Detected	Strongly presumed	21 m ²	E0	Not applicable
As DU002597	Ground Floor	Birmingham City University	JACK G02	Textured coating to brickwork wall	No Asbestos Detected	Strongly presumed	45 m ²	E0	Not applicable

Sample No.:	Floor Level:	Block Name:	Location:	Item:	Asbestos Content:	Determination Method:	Extent:	Risk Category:	Recommendations:
As DU002596	Ground Floor	Birmingham City University	JACK G03	Textured coating to plasterboard ceiling	No Asbestos Detected	Strongly presumed	6 m ²	E0	Not applicable
As DU002597	Ground Floor	Birmingham City University	JACK G03	Textured coating to brickwork wall	No Asbestos Detected	Strongly presumed	20 m ²	E0	Not applicable
As DU002596	Ground Floor	Birmingham City University	JACK G04	Textured coating to plasterboard ceiling	No Asbestos Detected	Strongly presumed	8 m ²	E0	Not applicable
As DU002597	Ground Floor	Birmingham City University	JACK G04	Textured coating to brickwork wall	No Asbestos Detected	Strongly presumed	25 m ²	E0	Not applicable
DU002598	Ground Floor	Birmingham City University	JACK G04	Bitumen sink pad	No Asbestos Detected	Analysis of sample using PLM	2 units	E0	Not applicable
DU002599	Ground Floor	Birmingham City University	JACK G05	Textured coating to plasterboard ceiling	No Asbestos Detected	Analysis of sample using PLM	8 m ²	E0	Not applicable


Sample No.:	Floor Level:	Block Name:	Location:	Item:	Asbestos Content:	Determination Method:	Extent:	Risk Category:	Recommendations:
DU002600	Ground Floor	Birmingham City University	JACK G05	Textured coating to brickwork wall	No Asbestos Detected	Analysis of sample using PLM	28 m ²	E0	Not applicable
As DU002599	Ground Floor	Birmingham City University	JACK G06	Textured coating to plasterboard ceiling	No Asbestos Detected	Strongly presumed	8 m ²	E0	Not applicable
As DU002600	Ground Floor	Birmingham City University	JACK G06	Textured coating to brickwork wall	No Asbestos Detected	Strongly presumed	20 m ²	E0	Not applicable
As DU002599	Ground Floor	Birmingham City University	JACK G07	Textured coating to plasterboard ceiling	No Asbestos Detected	Strongly presumed	9 m ²	E0	Not applicable
As DU002600	Ground Floor	Birmingham City University	JACK G07	Textured coating to brickwork wall	No Asbestos Detected	Strongly presumed	15 m ²	E0	Not applicable
As DU002599	Ground Floor	Birmingham City University	JACK G08	Textured coating to plasterboard ceiling	No Asbestos Detected	Strongly presumed	6 m ²	E0	Not applicable

Sample No.:	Floor Level:	Block Name:	Location:	Item:	Asbestos Content:	Determination Method:	Extent:	Risk Category:	Recommendations:
As DU002600	Ground Floor	Birmingham City University	JACK G08	Textured coating to brickwork wall	No Asbestos Detected	Strongly presumed	18 m ²	E0	Not applicable
DU002602	E - External	Birmingham City University	JACK EXT	Bitumen damp proof course	No Asbestos Detected	Analysis of sample using PLM	48 linear metres	E0	Not applicable

4.0 Item Register & Management Report


The following pages show a register of all suspect materials located during this investigation, which includes a photographic record of each item along with individual risk assessment scores.

The section entitled 'Portal Ref No' relates to a corresponding number assigned to each sample for the purpose of identification within the TEAMS online Portal.

Location:	NMU104	Block:	Birmingham City University	Floor Level: 1st Floor
Sample No.:	DU002590	Portal Ref No.:	1	
Item:	Bitumen sink pad			
Asbestos Content:	Result Based on:			
No Asbestos Detected	Analysis of sample using PLM			
Sample Analysed By: Reg 13(1)	Extent:	1 unit		
Comments:				


Material Assessment Total Score: 0		Likelihood of Disturbance Assessment Total Score: 0		Management Assessment Licensable: No Recommendations: Not Applicable Reinspection Interval: Not Applicable Overall Risk Category: E0
Product Type:	0 Not Applicable	Location:	0 Not Applicable	
Condition:	0 Not Applicable	Accessibility:	0 Not Applicable	
Surface Treatment:	0 Not Applicable			
Asbestos Type:	0 Not Applicable	Extent Score:	0 Not Applicable	

Management Detail

Location:	NMU101	Block:	Birmingham City University	Floor Level: 1st Floor
Sample No.:	DU002591	Portal Ref No.:	5	
Item:	Asbestos Bitumen adhesive			
Asbestos Content:	Result Based on:			
Chrysotile	Analysis of sample using PLM			
Sample Analysed By:	Reg 13(1)	Extent:	12 m ²	
Comments:				

Material Assessment Total Score: 3		Likelihood of Disturbance Assessment Total Score: 4		Management Assessment Licensable: No Recommendations: Program removal Reinspection Interval: Not Applicable Overall Risk Category: C7
Product Type:	1 (Asbestos bitumen)	Location:	2 (Rooms up to 100 sq m)	
Condition:	1 (Minor scratches)	Accessibility:	0 (Usually inaccessible or unlikely to be disturbed)	
Surface Treatment:	0 (Composite material)			
Asbestos Type:	1 (Chrysotile)	Extent Score:	2 (>10 - <50 sq m or >10m - <50m pipe run)	

Management Detail

Location:	NMUG13	Block:	Birmingham City University	Floor Level: Ground Floor
Sample No.:	DU002592	Portal Ref No.:	11	
Item:	Asbestos Reinforced plastic downpipe			
Asbestos Content:	Result Based on:			
Chrysotile	Analysis of sample using PLM			
Sample Analysed By: Reg 13(1)	Extent:	1 linear metres		
Comments:				

Material Assessment Total Score: 3		Likelihood of Disturbance Assessment Total Score: 4		Management Assessment Licensable: No Recommendations: Program removal Reinspection Interval: Not Applicable Overall Risk Category: C7
Product Type:	1 (Asbestos reinforced plastic)	Location:	2 (Rooms up to 100 sq m)	
Condition:	1 (Minor scratches)	Accessibility:	1 (Occasionally likely to be disturbed)	
Surface Treatment:	0 (Composite material)			
Asbestos Type:	1 (Chrysotile)	Extent Score:	1 (<10 sq m or 10m pipe run)	

Management Detail

Location:	NMUG15	Block:	Birmingham City University	Floor Level: Ground Floor
Sample No.:	DU002593	Portal Ref No.:	13	
Item:	Asbestos Bitumen adhesive			
Asbestos Content:	Result Based on:			
Chrysotile	Analysis of sample using PLM			
Sample Analysed By:	Reg 13(1)	Extent:	8 m ²	
Comments:				


Material Assessment Total Score: 3		Likelihood of Disturbance Assessment Total Score: 3		Management Assessment Licensable: No Recommendations: Program removal Reinspection Interval: Not Applicable Overall Risk Category: D6
Product Type:	1 (Asbestos bitumen)	Location:	2 (Rooms up to 100 sq m)	
Condition:	1 (Minor scratches)	Accessibility:	0 (Usually inaccessible or unlikely to be disturbed)	
Surface Treatment:	0 (Composite material)			
Asbestos Type:	1 (Chrysotile)	Extent Score:	1 (<10 sq m or 10m pipe run)	

Management Detail

Location:	NMUG06	Block:	Birmingham City University	Floor Level: Ground Floor
Sample No.:	As DU002593	Portal Ref No.:	14	
Item:	Asbestos Bitumen adhesive			
Asbestos Content:	Result Based on:			
Chrysotile	Strongly presumed			
Sample Analysed By:	Not applicable	Extent:	8 m ²	
Comments:				

Material Assessment Total Score: 3		Likelihood of Disturbance Assessment Total Score: 3		Management Assessment Licensable: No Recommendations: Program removal Reinspection Interval: Not Applicable Overall Risk Category: D6
Product Type:	1 (Asbestos bitumen)	Location:	2 (Rooms up to 100 sq m)	
Condition:	1 (Minor scratches)	Accessibility:	0 (Usually inaccessible or unlikely to be disturbed)	
Surface Treatment:	0 (Composite material)			
Asbestos Type:	1 (Chrysotile)	Extent Score:	1 (<10 sq m or 10m pipe run)	

Management Detail

Location:	NMUG05	Block:	Birmingham City University	Floor Level: Ground Floor
Sample No.:	As DU002593	Portal Ref No.:	19	
Item:	Asbestos Bitumen adhesive			
Asbestos Content:	Result Based on:			
Chrysotile	Strongly presumed			
Sample Analysed By:	Not applicable	Extent:	10 m ²	
Comments:				


Material Assessment Total Score: 3		Likelihood of Disturbance Assessment Total Score: 4		Management Assessment Licensable: No Recommendations: Program removal Reinspection Interval: Not Applicable Overall Risk Category: C7
Product Type:	1 (Asbestos bitumen)	Location:	2 (Rooms up to 100 sq m)	
Condition:	1 (Minor scratches)	Accessibility:	0 (Usually inaccessible or unlikely to be disturbed)	
Surface Treatment:	0 (Composite material)			
Asbestos Type:	1 (Chrysotile)	Extent Score:	2 (>10 - <50 sq m or >10m - <50m pipe run)	

Management Detail

Location:	NMUG07	Block:	Birmingham City University	Floor Level: Ground Floor
Sample No.:	As DU002593	Portal Ref No.:	20	
Item:	Asbestos Bitumen adhesive			
Asbestos Content:	Result Based on:			
Chrysotile	Strongly presumed			
Sample Analysed By:	Not applicable	Extent:	8 m ²	
Comments:				

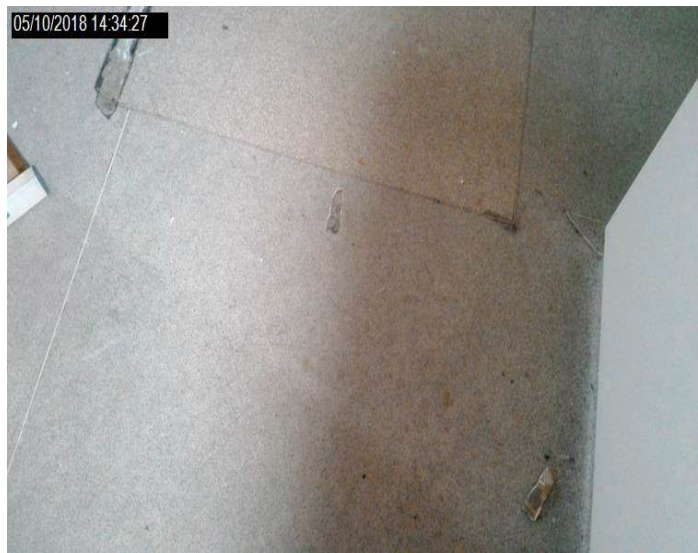
Material Assessment Total Score: 3		Likelihood of Disturbance Assessment Total Score: 3		Management Assessment Licensable: No Recommendations: Program removal Reinspection Interval: Not Applicable Overall Risk Category: D6
Product Type:	1 (Asbestos bitumen)	Location:	2 (Rooms up to 100 sq m)	
Condition:	1 (Minor scratches)	Accessibility:	0 (Usually inaccessible or unlikely to be disturbed)	
Surface Treatment:	0 (Composite material)			
Asbestos Type:	1 (Chrysotile)	Extent Score:	1 (<10 sq m or 10m pipe run)	

Management Detail

Location:	NMUG08	Block:	Birmingham City University	Floor Level: Ground Floor
Sample No.:	As DU002593	Portal Ref No.:	21	
Item:	Asbestos Bitumen adhesive			
Asbestos Content:	Result Based on:			
Chrysotile	Strongly presumed			
Sample Analysed By:	Not applicable	Extent:	8 m ²	
Comments:				


Material Assessment Total Score: 3		Likelihood of Disturbance Assessment Total Score: 3		Management Assessment Licensable: No Recommendations: Program removal Reinspection Interval: Not Applicable Overall Risk Category: D6
Product Type:	1 (Asbestos bitumen)	Location:	2 (Rooms up to 100 sq m)	
Condition:	1 (Minor scratches)	Accessibility:	0 (Usually inaccessible or unlikely to be disturbed)	
Surface Treatment:	0 (Composite material)			
Asbestos Type:	1 (Chrysotile)	Extent Score:	1 (<10 sq m or 10m pipe run)	

Management Detail

Location:	NMUG09	Block:	Birmingham City University	Floor Level: Ground Floor
Sample No.:	As DU002593	Portal Ref No.:	22	
Item:	Asbestos Bitumen adhesive			
Asbestos Content:	Result Based on:			
Chrysotile	Strongly presumed			
Sample Analysed By:	Not applicable	Extent:	8 m ²	
Comments:				


Material Assessment Total Score: 3		Likelihood of Disturbance Assessment Total Score: 3		Management Assessment Licensable: No Recommendations: Program removal Reinspection Interval: Not Applicable Overall Risk Category: D6
Product Type:	1 (Asbestos bitumen)	Location:	2 (Rooms up to 100 sq m)	
Condition:	1 (Minor scratches)	Accessibility:	0 (Usually inaccessible or unlikely to be disturbed)	
Surface Treatment:	0 (Composite material)			
Asbestos Type:	1 (Chrysotile)	Extent Score:	1 (<10 sq m or 10m pipe run)	

Management Detail

Location:	NMUG09	Block:	Birmingham City University	Floor Level: Ground Floor
Sample No.:	DU002594	Portal Ref No.:	23	
Item:	Asbestos Bitumen flat roof covering			
Asbestos Content:	Result Based on:			
Chrysotile	Analysis of sample using PLM			
Sample Analysed By: Reg 13(1)	Extent:	50 m ²		
Comments: Former roof covering, now built on top of.				


Material Assessment Total Score: 3		Likelihood of Disturbance Assessment Total Score: 5		Management Assessment Licensable: No Recommendations: Program removal Reinspection Interval: Not Applicable Overall Risk Category: C8
Product Type:	1 (Asbestos bitumen)	Location:	2 (Rooms up to 100 sq m)	
Condition:	1 (Minor scratches)	Accessibility:	0 (Usually inaccessible or unlikely to be disturbed)	
Surface Treatment:	0 (Composite material)			
Asbestos Type:	1 (Chrysotile)	Extent Score:	3 (>50 sq m or >50m pipe run)	

Management Detail

Location:	NMUG99B	Block:	Birmingham City University	Floor Level: Ground Floor
Sample No.:	DU002595	Portal Ref No.:	24	
Item:	Bitumen adhesive			
Asbestos Content:	Result Based on:			
No Asbestos Detected	Analysis of sample using PLM			
Sample Analysed By:	Reg 13(1)	Extent:	16 m ²	
Comments:				


Material Assessment Total Score: 0		Likelihood of Disturbance Assessment Total Score: 0		Management Assessment Licensable: No Recommendations: Not Applicable Reinspection Interval: Not Applicable Overall Risk Category: E0
Product Type:	0 Not Applicable	Location:	0 Not Applicable	
Condition:	0 Not Applicable	Accessibility:	0 Not Applicable	
Surface Treatment:	0 Not Applicable			
Asbestos Type:	0 Not Applicable	Extent Score:	0 Not Applicable	

Management Detail

Location:	JACK G01	Block:	Birmingham City University	Floor Level: Ground Floor
Sample No.:	DU002596	Portal Ref No.:	25	
Item:	Textured coating to plasterboard ceiling			
Asbestos Content:	Result Based on:			
No Asbestos Detected	Analysis of sample using PLM			
Sample Analysed By: Reg 13(1)	Extent:	3 m ²		
Comments:				

Material Assessment Total Score: 0		Likelihood of Disturbance Assessment Total Score: 0		Management Assessment Licensable: No Recommendations: Not Applicable Reinspection Interval: Not Applicable Overall Risk Category: E0
Product Type:	0 Not Applicable	Location:	0 Not Applicable	
Condition:	0 Not Applicable	Accessibility:	0 Not Applicable	
Surface Treatment:	0 Not Applicable			
Asbestos Type:	0 Not Applicable	Extent Score:	0 Not Applicable	

Management Detail

Location:	JACK G01	Block:	Birmingham City University	Floor Level: Ground Floor
Sample No.:	DU002597	Portal Ref No.:	26	
Item:	Textured coating to brickwork wall			
Asbestos Content:	Result Based on:			
No Asbestos Detected	Analysis of sample using PLM			
Sample Analysed By: Reg 13(1)	Extent:	8 m ²		
Comments:				


Material Assessment Total Score: 0		Likelihood of Disturbance Assessment Total Score: 0		Management Assessment Licensable: No Recommendations: Not Applicable Reinspection Interval: Not Applicable Overall Risk Category: E0
Product Type:	0 Not Applicable	Location:	0 Not Applicable	
Condition:	0 Not Applicable	Accessibility:	0 Not Applicable	
Surface Treatment:	0 Not Applicable			
Asbestos Type:	0 Not Applicable	Extent Score:	0 Not Applicable	

Management Detail

Location:	JACK G02	Block:	Birmingham City University	Floor Level: Ground Floor
Sample No.:	As DU002596	Portal Ref No.:	27	
Item:	Textured coating to plasterboard ceiling			
Asbestos Content:			Result Based on:	
No Asbestos Detected		Strongly presumed		
Sample Analysed By:	Not applicable	Extent:	21 m ²	
Comments:				


Material Assessment Total Score: 0		Likelihood of Disturbance Assessment Total Score: 0		Management Assessment Licensable: No Recommendations: Not Applicable Reinspection Interval: Not Applicable Overall Risk Category: E0
Product Type:	0 Not Applicable	Location:	0 Not Applicable	
Condition:	0 Not Applicable	Accessibility:	0 Not Applicable	
Surface Treatment:	0 Not Applicable			
Asbestos Type:	0 Not Applicable	Extent Score:	0 Not Applicable	

Management Detail

Location:	JACK G02	Block:	Birmingham City University	Floor Level: Ground Floor
Sample No.:	As DU002597	Portal Ref No.:	28	
Item:	Textured coating to brickwork wall			
Asbestos Content:		Result Based on:		
No Asbestos Detected		Strongly presumed		
Sample Analysed By:	Not applicable	Extent:	45 m ²	
Comments:				

Material Assessment Total Score: 0		Likelihood of Disturbance Assessment Total Score: 0		Management Assessment Licensable: No Recommendations: Not Applicable Reinspection Interval: Not Applicable Overall Risk Category: E0
Product Type:	0 Not Applicable	Location:	0 Not Applicable	
Condition:	0 Not Applicable	Accessibility:	0 Not Applicable	
Surface Treatment:	0 Not Applicable			
Asbestos Type:	0 Not Applicable	Extent Score:	0 Not Applicable	

Management Detail

Location:	JACK G03	Block:	Birmingham City University	Floor Level: Ground Floor
Sample No.:	As DU002596	Portal Ref No.:	30	
Item:	Textured coating to plasterboard ceiling			
Asbestos Content:		Result Based on:		
No Asbestos Detected		Strongly presumed		
Sample Analysed By:	Not applicable	Extent:	6 m ²	
Comments:				

Material Assessment Total Score: 0		Likelihood of Disturbance Assessment Total Score: 0		Management Assessment Licensable: No Recommendations: Not Applicable Reinspection Interval: Not Applicable Overall Risk Category: E0
Product Type:	0 Not Applicable	Location:	0 Not Applicable	
Condition:	0 Not Applicable	Accessibility:	0 Not Applicable	
Surface Treatment:	0 Not Applicable			
Asbestos Type:	0 Not Applicable	Extent Score:	0 Not Applicable	

Management Detail

Location:	JACK G03	Block:	Birmingham City University	Floor Level: Ground Floor
Sample No.:	As DU002597	Portal Ref No.:	31	
Item:	Textured coating to brickwork wall			
Asbestos Content:		Result Based on:		
No Asbestos Detected		Strongly presumed		
Sample Analysed By:	Not applicable	Extent:	20 m ²	
Comments:				

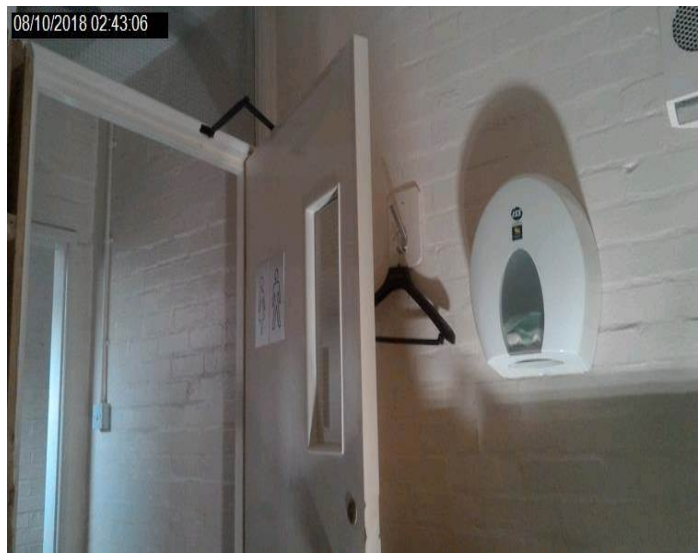
Material Assessment Total Score: 0		Likelihood of Disturbance Assessment Total Score: 0		Management Assessment Licensable: No Recommendations: Not Applicable Reinspection Interval: Not Applicable Overall Risk Category: E0
Product Type:	0 Not Applicable	Location:	0 Not Applicable	
Condition:	0 Not Applicable	Accessibility:	0 Not Applicable	
Surface Treatment:	0 Not Applicable			
Asbestos Type:	0 Not Applicable	Extent Score:	0 Not Applicable	

Management Detail

Location:	JACK G04	Block:	Birmingham City University	Floor Level: Ground Floor
Sample No.:	As DU002596	Portal Ref No.:	33	
Item:	Textured coating to plasterboard ceiling			
Asbestos Content:		Result Based on:		
No Asbestos Detected		Strongly presumed		
Sample Analysed By:	Not applicable	Extent:	8 m ²	
Comments:				


Material Assessment Total Score: 0		Likelihood of Disturbance Assessment Total Score: 0		Management Assessment Licensable: No Recommendations: Not Applicable Reinspection Interval: Not Applicable Overall Risk Category: E0
Product Type:	0 Not Applicable	Location:	0 Not Applicable	
Condition:	0 Not Applicable	Accessibility:	0 Not Applicable	
Surface Treatment:	0 Not Applicable			
Asbestos Type:	0 Not Applicable	Extent Score:	0 Not Applicable	

Management Detail

Location:	JACK G04	Block:	Birmingham City University	Floor Level: Ground Floor
Sample No.:	As DU002597	Portal Ref No.:	34	
Item:	Textured coating to brickwork wall			
Asbestos Content:		Result Based on:		
No Asbestos Detected		Strongly presumed		
Sample Analysed By:	Not applicable	Extent:	25 m ²	
Comments:				


Material Assessment Total Score: 0		Likelihood of Disturbance Assessment Total Score: 0		Management Assessment Licensable: No Recommendations: Not Applicable Reinspection Interval: Not Applicable Overall Risk Category: E0
Product Type:	0 Not Applicable	Location:	0 Not Applicable	
Condition:	0 Not Applicable	Accessibility:	0 Not Applicable	
Surface Treatment:	0 Not Applicable			
Asbestos Type:	0 Not Applicable	Extent Score:	0 Not Applicable	

Management Detail

Location:	JACK G04	Block:	Birmingham City University	Floor Level: Ground Floor
Sample No.:	DU002598	Portal Ref No.:	36	
Item:	Bitumen sink pad			
Asbestos Content:		Result Based on:		
No Asbestos Detected		Analysis of sample using PLM		
Sample Analysed By:	Reg 13(1)	Extent:	2 units	
Comments:				


Material Assessment Total Score: 0		Likelihood of Disturbance Assessment Total Score: 0		Management Assessment Licensable: No Recommendations: Not Applicable Reinspection Interval: Not Applicable Overall Risk Category: E0
Product Type:	0 Not Applicable	Location:	0 Not Applicable	
Condition:	0 Not Applicable	Accessibility:	0 Not Applicable	
Surface Treatment:	0 Not Applicable			
Asbestos Type:	0 Not Applicable	Extent Score:	0 Not Applicable	

Management Detail

Location:	JACK G05	Block:	Birmingham City University	Floor Level: Ground Floor
Sample No.:	DU002599	Portal Ref No.:	38	
Item:	Textured coating to plasterboard ceiling			
Asbestos Content:	Result Based on:			
No Asbestos Detected	Analysis of sample using PLM			
Sample Analysed By: Reg 13(1)	Extent:	8 m ²		
Comments:				


Material Assessment Total Score: 0		Likelihood of Disturbance Assessment Total Score: 0		Management Assessment Licensable: No Recommendations: Not Applicable Reinspection Interval: Not Applicable Overall Risk Category: E0
Product Type:	0 Not Applicable	Location:	0 Not Applicable	
Condition:	0 Not Applicable	Accessibility:	0 Not Applicable	
Surface Treatment:	0 Not Applicable			
Asbestos Type:	0 Not Applicable	Extent Score:	0 Not Applicable	

Management Detail

Location:	JACK G05	Block:	Birmingham City University	Floor Level: Ground Floor
Sample No.:	DU002600	Portal Ref No.:	39	
Item:	Textured coating to brickwork wall			
Asbestos Content:		Result Based on:		
No Asbestos Detected		Analysis of sample using PLM		
Sample Analysed By:	Reg 13(1)	Extent:	28 m ²	
Comments:				


Material Assessment Total Score: 0		Likelihood of Disturbance Assessment Total Score: 0		Management Assessment Licensable: No Recommendations: Not Applicable Reinspection Interval: Not Applicable Overall Risk Category: E0
Product Type:	0 Not Applicable	Location:	0 Not Applicable	
Condition:	0 Not Applicable	Accessibility:	0 Not Applicable	
Surface Treatment:	0 Not Applicable			
Asbestos Type:	0 Not Applicable	Extent Score:	0 Not Applicable	

Management Detail

Location:	JACK G06	Block:	Birmingham City University	Floor Level: Ground Floor
Sample No.:	As DU002599	Portal Ref No.:	40	
Item:	Textured coating to plasterboard ceiling			
Asbestos Content:			Result Based on:	
No Asbestos Detected		Strongly presumed		
Sample Analysed By:	Not applicable	Extent:	8 m ²	
Comments:				


Material Assessment Total Score: 0		Likelihood of Disturbance Assessment Total Score: 0		Management Assessment Licensable: No Recommendations: Not Applicable Reinspection Interval: Not Applicable Overall Risk Category: E0
Product Type:	0 Not Applicable	Location:	0 Not Applicable	
Condition:	0 Not Applicable	Accessibility:	0 Not Applicable	
Surface Treatment:	0 Not Applicable			
Asbestos Type:	0 Not Applicable	Extent Score:	0 Not Applicable	

Management Detail

Location:	JACK G06	Block:	Birmingham City University	Floor Level: Ground Floor
Sample No.:	As DU002600	Portal Ref No.:	41	
Item:	Textured coating to brickwork wall			
Asbestos Content:		Result Based on:		
No Asbestos Detected		Strongly presumed		
Sample Analysed By:	Not applicable	Extent:	20 m ²	
Comments:				


Material Assessment Total Score: 0		Likelihood of Disturbance Assessment Total Score: 0		Management Assessment Licensable: No Recommendations: Not Applicable Reinspection Interval: Not Applicable Overall Risk Category: E0
Product Type:	0 Not Applicable	Location:	0 Not Applicable	
Condition:	0 Not Applicable	Accessibility:	0 Not Applicable	
Surface Treatment:	0 Not Applicable			
Asbestos Type:	0 Not Applicable	Extent Score:	0 Not Applicable	

Management Detail

Location:	JACK G07	Block:	Birmingham City University	Floor Level: Ground Floor
Sample No.:	As DU002599	Portal Ref No.:	42	
Item:	Textured coating to plasterboard ceiling			
Asbestos Content:		Result Based on:		
No Asbestos Detected		Strongly presumed		
Sample Analysed By:	Not applicable	Extent:	9 m ²	
Comments:				


Material Assessment Total Score: 0		Likelihood of Disturbance Assessment Total Score: 0		Management Assessment Licensable: No Recommendations: Not Applicable Reinspection Interval: Not Applicable Overall Risk Category: E0
Product Type:	0 Not Applicable	Location:	0 Not Applicable	
Condition:	0 Not Applicable	Accessibility:	0 Not Applicable	
Surface Treatment:	0 Not Applicable			
Asbestos Type:	0 Not Applicable	Extent Score:	0 Not Applicable	

Management Detail

Location:	JACK G07	Block:	Birmingham City University	Floor Level: Ground Floor
Sample No.:	As DU002600	Portal Ref No.:	43	
Item:	Textured coating to brickwork wall			
Asbestos Content:		Result Based on:		
No Asbestos Detected		Strongly presumed		
Sample Analysed By:	Not applicable	Extent:	15 m ²	
Comments:				


Material Assessment Total Score: 0		Likelihood of Disturbance Assessment Total Score: 0		Management Assessment Licensable: No Recommendations: Not Applicable Reinspection Interval: Not Applicable Overall Risk Category: E0
Product Type:	0 Not Applicable	Location:	0 Not Applicable	
Condition:	0 Not Applicable	Accessibility:	0 Not Applicable	
Surface Treatment:	0 Not Applicable			
Asbestos Type:	0 Not Applicable	Extent Score:	0 Not Applicable	

Management Detail

Location:	JACK G08	Block:	Birmingham City University	Floor Level: Ground Floor
Sample No.:	As DU002599	Portal Ref No.:	44	
Item:	Textured coating to plasterboard ceiling			
Asbestos Content:	Result Based on:			
No Asbestos Detected	Strongly presumed			
Sample Analysed By:	Not applicable	Extent:	6 m ²	
Comments:				


Material Assessment Total Score: 0		Likelihood of Disturbance Assessment Total Score: 0		Management Assessment Licensable: No Recommendations: Not Applicable Reinspection Interval: Not Applicable Overall Risk Category: E0
Product Type:	0 Not Applicable	Location:	0 Not Applicable	
Condition:	0 Not Applicable	Accessibility:	0 Not Applicable	
Surface Treatment:	0 Not Applicable			
Asbestos Type:	0 Not Applicable	Extent Score:	0 Not Applicable	

Management Detail

Location:	JACK G08	Block:	Birmingham City University	Floor Level: Ground Floor
Sample No.:	As DU002600	Portal Ref No.:	45	
Item:	Textured coating to brickwork wall			
Asbestos Content:		Result Based on:		
No Asbestos Detected		Strongly presumed		
Sample Analysed By:	Not applicable	Extent:	18 m ²	
Comments:				


Material Assessment Total Score: 0		Likelihood of Disturbance Assessment Total Score: 0		Management Assessment Licensable: No Recommendations: Not Applicable Reinspection Interval: Not Applicable Overall Risk Category: E0
Product Type:	0 Not Applicable	Location:	0 Not Applicable	
Condition:	0 Not Applicable	Accessibility:	0 Not Applicable	
Surface Treatment:	0 Not Applicable			
Asbestos Type:	0 Not Applicable	Extent Score:	0 Not Applicable	

Management Detail

Location:	JACK G08	Block:	Birmingham City University	Floor Level: Ground Floor
Sample No.:	DU002601	Portal Ref No.:	46	
Item:	Asbestos Reinforced plastic downpipe			
Asbestos Content:	Chrysotile			
Result Based on:	Analysis of sample using PLM			
Sample Analysed By:	Reg 13(1)	Extent:	3 linear metres	
Comments:				

Material Assessment Total Score: 3		Likelihood of Disturbance Assessment Total Score: 4		Management Assessment Licensable: No Recommendations: Program removal Reinspection Interval: Not Applicable Overall Risk Category: C7
Product Type:	1 (Asbestos reinforced plastic)	Location:	2 (Rooms up to 100 sq m)	
Condition:	1 (Minor scratches)	Accessibility:	1 (Occasionally likely to be disturbed)	
Surface Treatment:	0 (Composite material)			
Asbestos Type:	1 (Chrysotile)	Extent Score:	1 (<10 sq m or 10m pipe run)	

Management Detail

Location:	JACK EXT	Block:	Birmingham City University	Floor Level: E - External
Sample No.:	DU002602	Portal Ref No.:	52	
Item:	Bitumen damp proof course			
Asbestos Content:		Result Based on:		
No Asbestos Detected		Analysis of sample using PLM		
Sample Analysed By:	Reg 13(1)	Extent:	48 linear metres	
Comments:				

Material Assessment Total Score: 0		Likelihood of Disturbance Assessment Total Score: 0		Management Assessment Licensable: No Recommendations: Not Applicable Reinspection Interval: Not Applicable Overall Risk Category: E0
Product Type:	0 Not Applicable	Location:	0 Not Applicable	
Condition:	0 Not Applicable	Accessibility:	0 Not Applicable	
Surface Treatment:	0 Not Applicable			
Asbestos Type:	0 Not Applicable	Extent Score:	0 Not Applicable	

Management Detail

5.0 Annotated Building Plans

Diagrams included:

Plan(s) supplied by client, additional plans drawn by Bradley Environmental Consultants Ltd.

J102751 V2/01 - Ground Floor Plan - Jackson Building - Item Location(s)

J102751 V2/02 - Ground Floor Plan - Jackson Building - Intrusion Location(s)

J102751 V2/03 - Ground Floor Plan - Murdoch Building - Item Location(s)

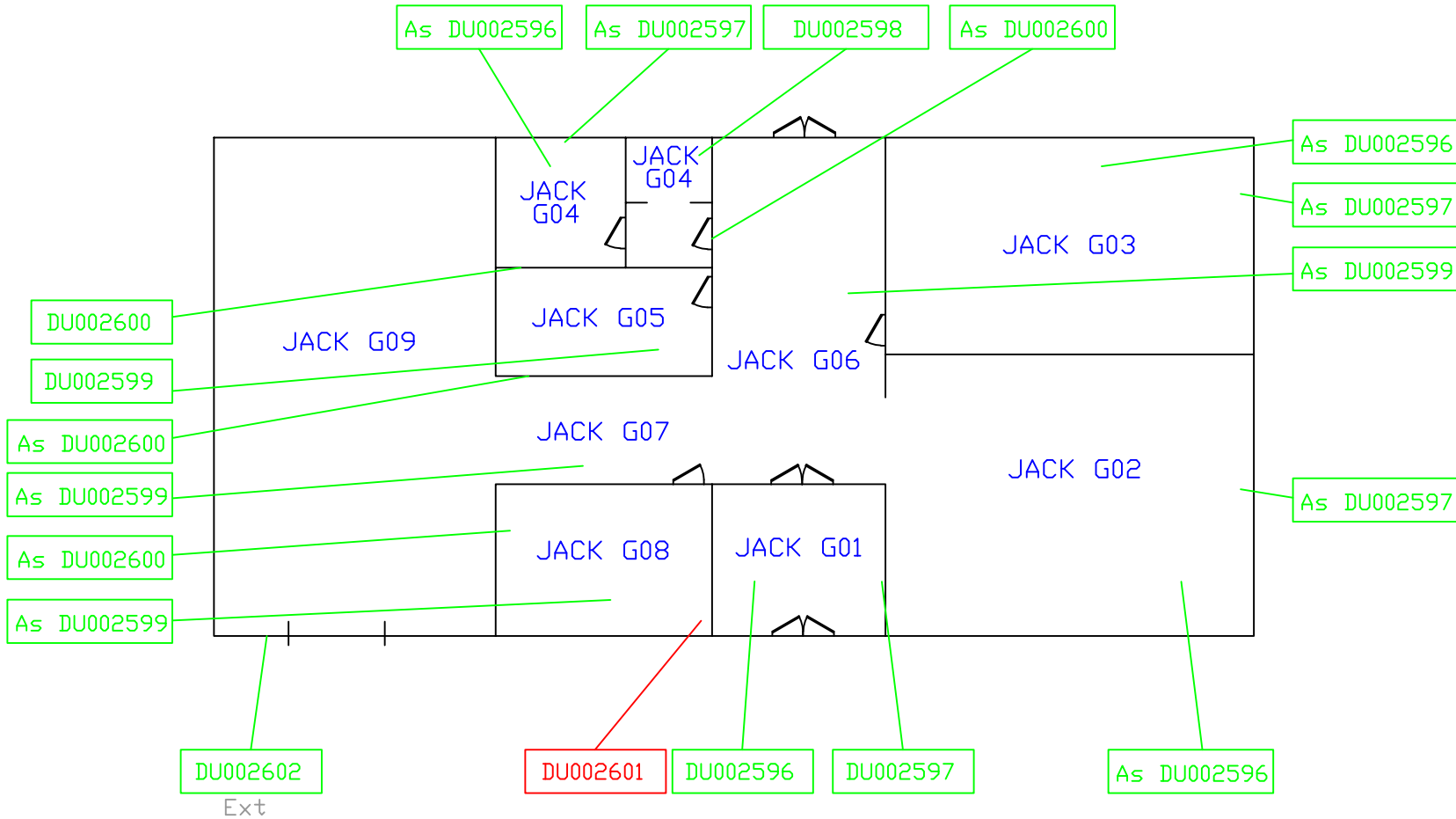
J102751 V2/04 - Ground Floor Plan - Murdoch Building - Intrusion Location(s)

J102751 V2/05 - First Floor Plan - Murdoch Building - Item Location(s)

J102751 V2/06 - First Floor Plan - Murdoch Building - Intrusion Location(s)

Jackson Building

JACK External



KEY

- ????? ASBESTOS ITEM LOCATION
- ????? NON-ASBESTOS ITEM LOCATION
- ?? ROOM NO
- AREA/FEATURES NOT ACCESSED
- Ext EXTERNAL ITEM
- ~~?????~~ REMOVED ITEM LOCATION

This diagram is only to be reproduced in colour.

Plan Abbreviations:

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- AIB - Asbestos Insulating Board
- AT - Asbestos Textile
- AI - Asbestos Insulation
- ATC - Asbestos Textured Coating
- AB - Asbestos Bitumen
- ACF - Asbestos Compressed Fibre
- ATP - Asbestos Thermoplastic Floor Tiles

Drawing title:
Asbestos Survey Plan (J102751 V2/01)

Site address:
Jackson Building
Former City North Campus
Birmingham City University
Perry Barr
B42 2US

Floor level(s): Ground Floor
This drawing is to be read in conjunction with survey report number: J102751 V2

Date of work: 5th October 2018
Lead surveyor: Reg 13(1)

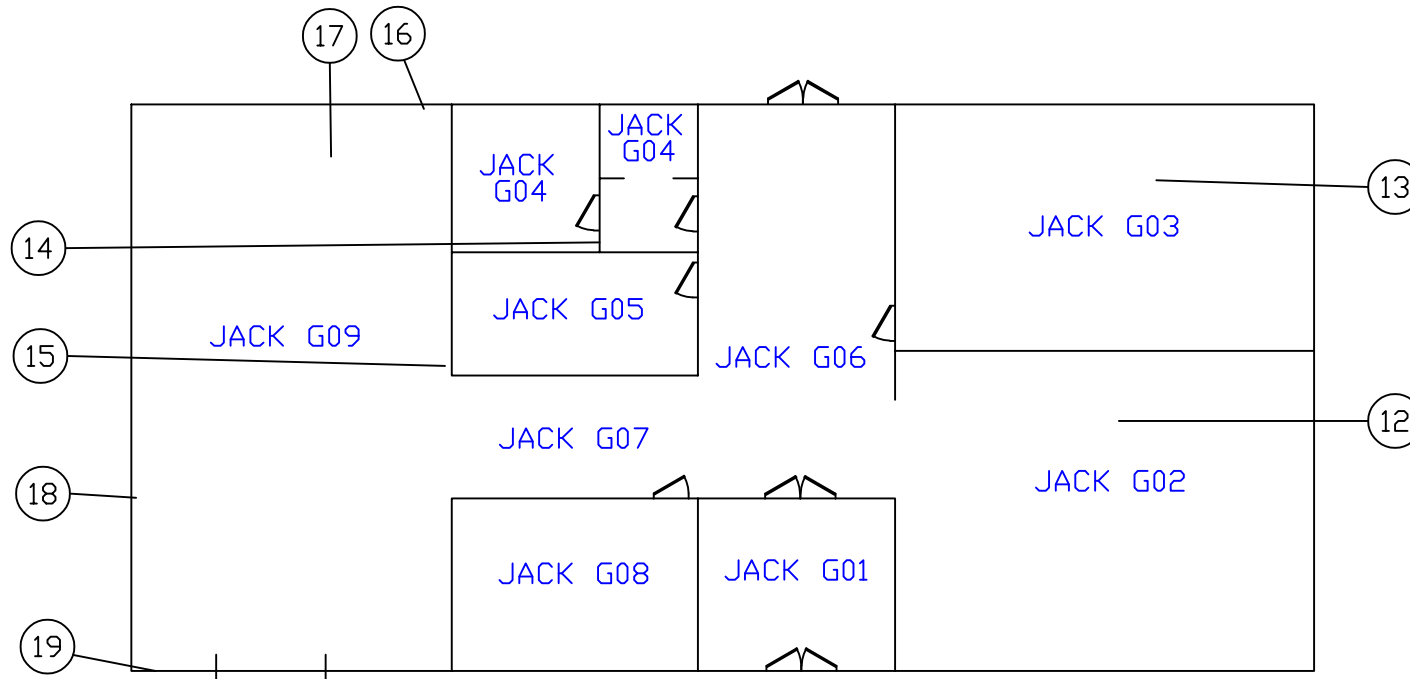
Please note: this drawing is NOT TO SCALE.



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Jackson Building

JACK External



KEY

- ⊕ INTRUSION LOCATIONS
- ??? ROOM NO
- AREA/FEATURES NOT ACCESSED
- Ext EXTERNAL ITEM

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- AI - Asbestos Insulation
- ATC - Asbestos Textured Coating
- AB - Asbestos Bitumen
- ACF - Asbestos Compressed Fibre
- ATP - Asbestos Thermoplastic Floor Tiles

Drawing title:
Asbestos Survey Plan (J102751 V2/02)

Site address:
Jackson Building
Former City North Campus
Birmingham City University
Perry Barr
B42 2US

Floor level(s): Ground Floor

This drawing is to be read in conjunction with survey report number: J102751 V2

Date of work: 5th October 2018

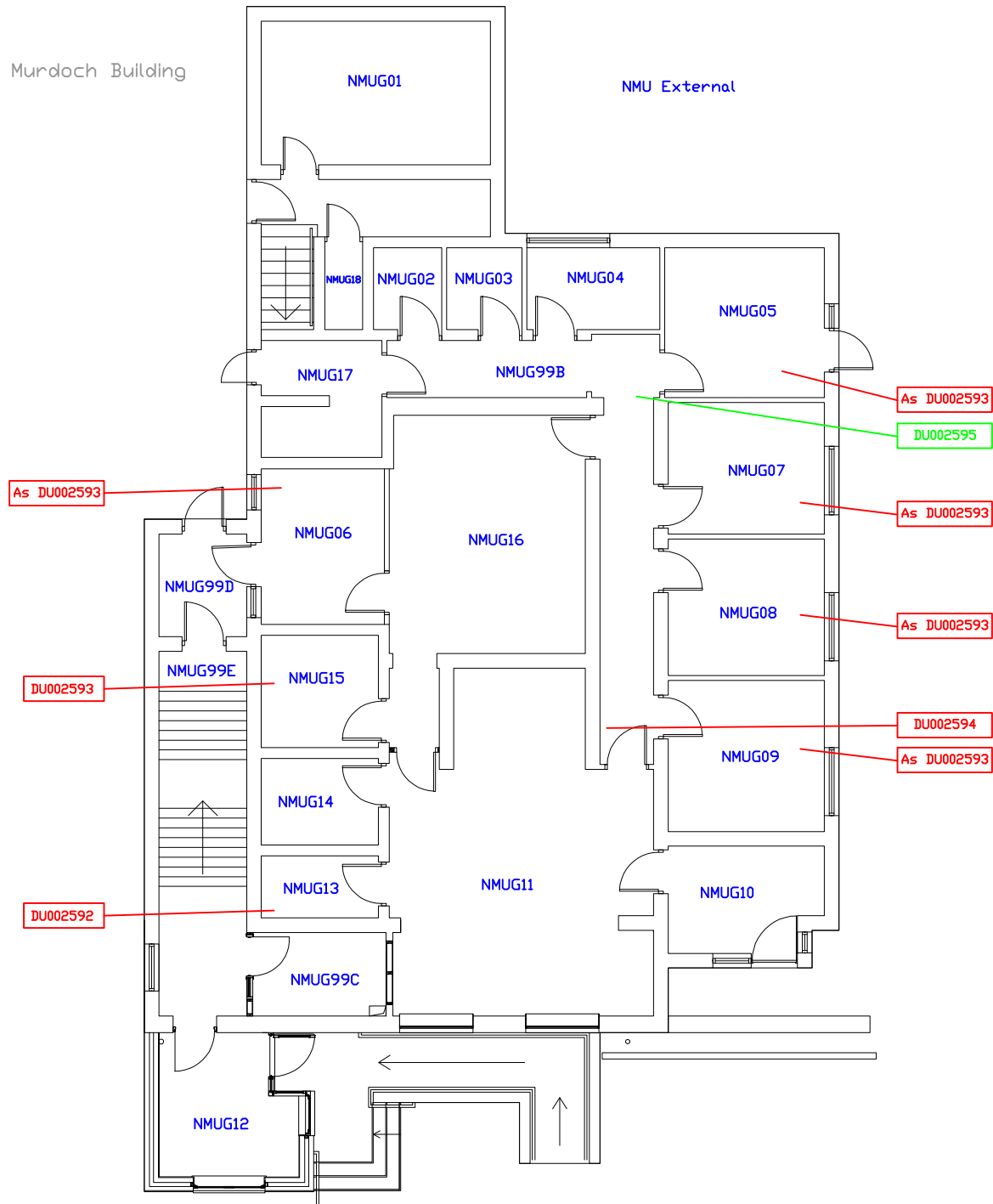
Lead surveyor: Reg [REDACTED]

Please note: this drawing is NOT TO SCALE.



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Murdoch Building



KEY

- ????? ASBESTOS ITEM LOCATION
- ????? NON-ASBESTOS ITEM LOCATION
- ?? ROOM NO
- AREA/FEATURES NOT ACCESSED
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- ~~?????~~ REMOVED ITEM LOCATION

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- AI - Asbestos Insulation
- ATC - Asbestos Textured Coating
- AB - Asbestos Bitumen
- ACF - Asbestos Compressed Fibre
- ATP - Asbestos Thermoplastic Floor Tiles

Drawing title:
Asbestos Survey Plan (J102751 V2/03)

Site address:
Murdoch Building
Former City North Campus
Birmingham City University
Perry Barr
B42 2US

Floor level(s): Ground Floor

This drawing is to be read in conjunction with survey report number: J102751 V2

Date of work: 5th October 2018

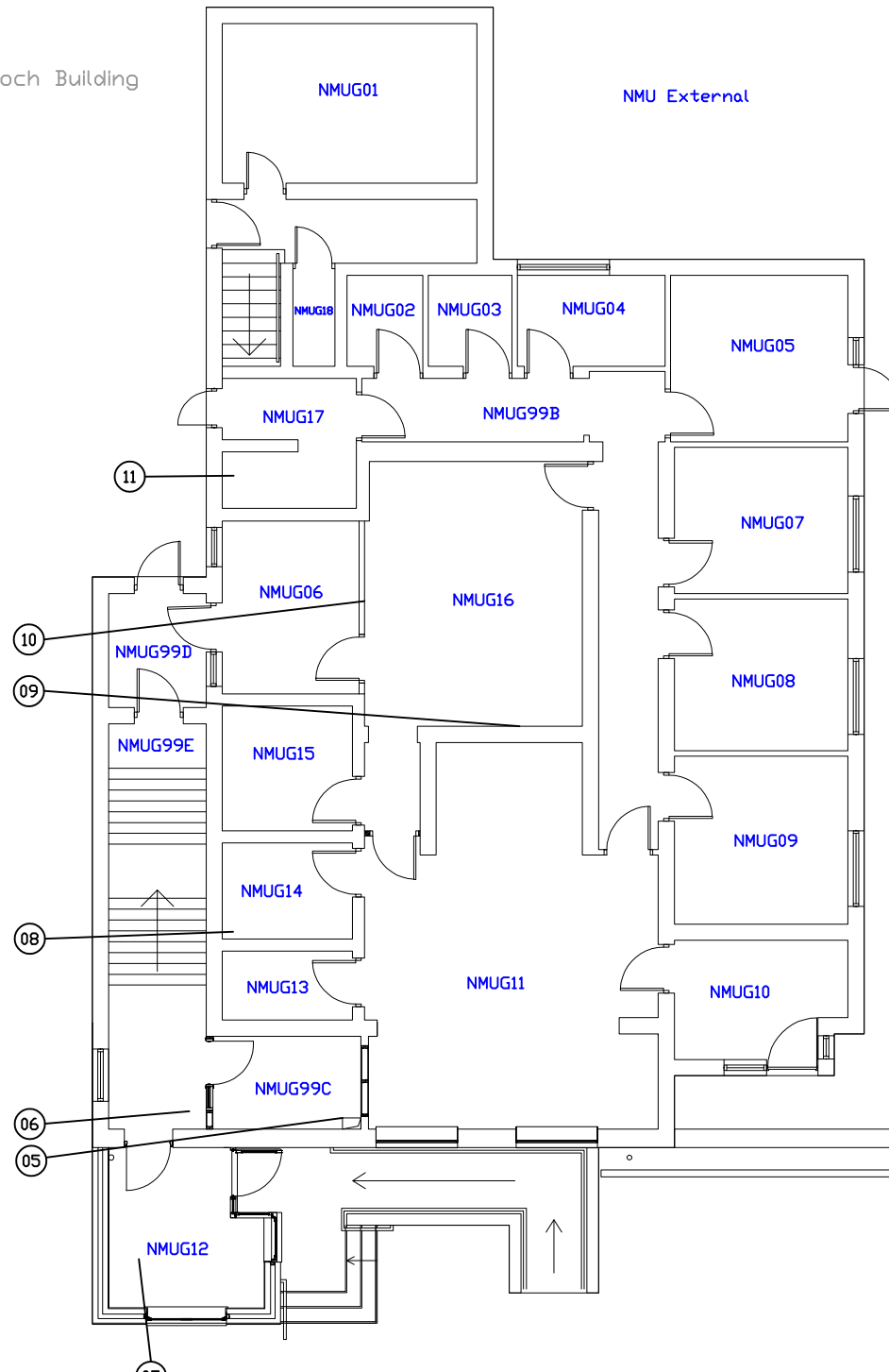
Lead surveyor: **Reg 13(1)**

Please note: this drawing is NOT TO SCALE.



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Murdoch Building



KEY

- ⊕ INTRUSION LOCATIONS
- ??? ROOM NO
- AREA/FEATURES NOT ACCESSED
- Ext EXTERNAL ITEM

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- ATC - Asbestos Textured Coating
- AB - Asbestos Bitumen
- ACF - Asbestos Compressed Fibre
- ATP - Asbestos Thermoplastic Floor Tiles

Drawing title:
Asbestos Survey Plan (J102751 V2/04)

Site address:
Murdoch Building
Former City North Campus
Birmingham City University
Perry Barr
B42 2US

Floor level(s): Ground Floor

This drawing is to be read in conjunction with survey report number: J102751 V2

Date of work: 5th October 2018

Lead surveyor: Reg [REDACTED]

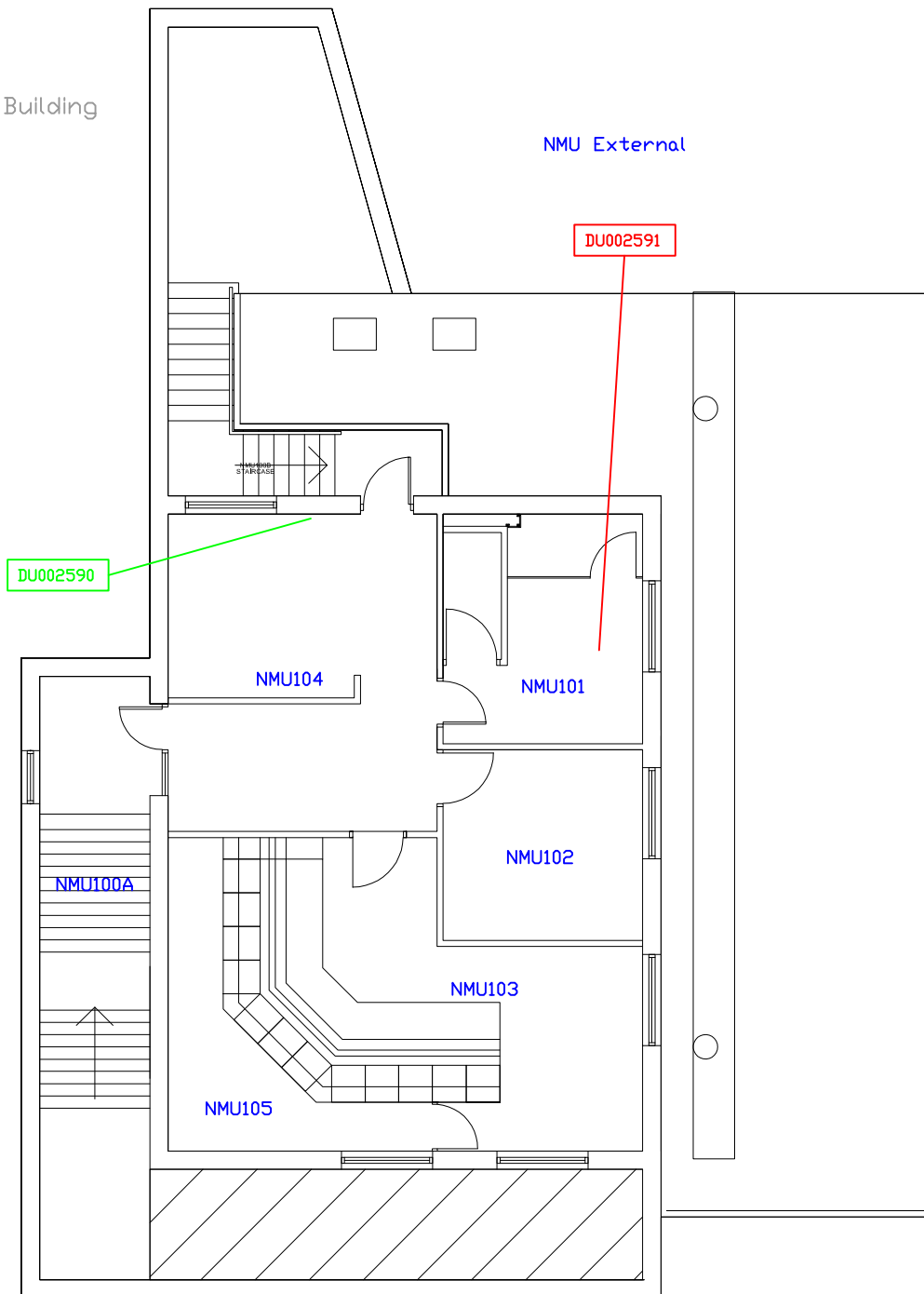
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Murdoch Building

NMU External



KEY

- ????? ASBESTOS ITEM LOCATION
- ????? NON-ASBESTOS ITEM LOCATION
- ?? ROOM NO
- AREA/FEATURES NOT ACCESSED
- Ext EXTERNAL ITEM
- ~~?????~~ REMOVED ITEM LOCATION

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- AT - Asbestos Textile
- AI - Asbestos Insulation
- ATC - Asbestos Textured Coating
- AB - Asbestos Bitumen
- ACF - Asbestos Compressed Fibre
- ATP - Asbestos Thermoplastic Floor Tiles

Drawing title:
Asbestos Survey Plan (J102751 V2/05)

Site address:
Murdoch Building
Former City North Campus
Birmingham City University
Perry Barr
B42 2US

Floor level(s): First Floor

This drawing is to be read in conjunction with survey report number: J102751 V2

Date of work: 5th October 2018

Lead surveyor: **Reg**

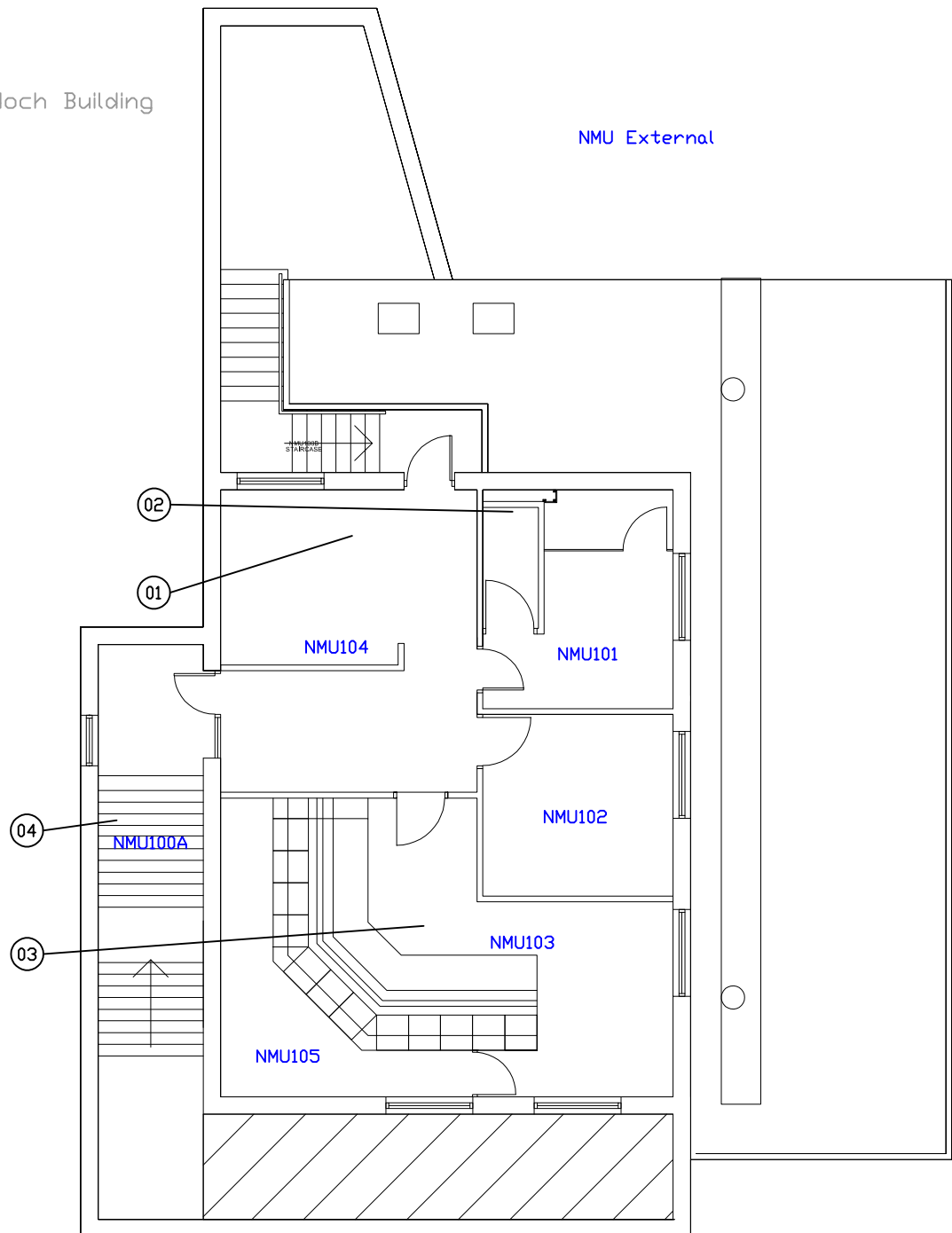
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Murdoch Building

NMU External



KEY

- ⊕ INTRUSION LOCATIONS
- ??? ROOM NO
- AREA/FEATURES NOT ACCESSED
- Ext EXTERNAL ITEM

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Plan Abbreviations:

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- AT - Asbestos Textile
- AI - Asbestos Insulation
- ATC - Asbestos Textured Coating
- AB - Asbestos Bitumen
- ACF - Asbestos Compressed Fibre
- ATP - Asbestos Thermoplastic Floor Tiles

Drawing title:
Asbestos Survey Plan (J102751 V2/06)

Site address:
Murdoch Building
Former City North Campus
Birmingham City University
Perry Barr
B42 2US

Floor level(s): First Floor

This drawing is to be read in conjunction with survey report number: J102751 V2

Date of work: 5th October 2018

Lead surveyor: Reg

Please note: this drawing is NOT TO SCALE.



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6.0 Room Description Report

Please note that this section of the survey report documents the general building materials recorded on a room by room basis by the surveyor while undertaking the inspection in line with our ISO17020 UKAS Accreditation. It has not been designed to use as a register for asbestos materials. Please refer to the asbestos register and/or summary section of this report for details of the ACMs located during this investigation.

Block:	Room:	Floor Level:	Ceiling:	Walls:	Floor:	Other:
Birmingham City University	JACK G01	Ground Floor	Textured coating to plasterboard	Textured coating to brickwork	Carpet tiles to concrete	Metal and plastic conduit
Birmingham City University	JACK G02	Ground Floor	Textured coating to plasterboard to compressed straw board	Textured coating to brickwork	Carpet tiles to concrete	Metal and plastic conduit, wall mounted radiators, timber boxing to metal pipework, quarry tile window sill
Birmingham City University	JACK G03	Ground Floor	Textured coating to plasterboard to compressed straw board	Textured coating to brickwork	Carpet tiles to concrete	Metal and plastic conduit, wall mounted radiators, timber shuttering to vent opening
Birmingham City University	JACK G04	Ground Floor	Textured coating to plasterboard to compressed straw board	Textured coating to brickwork	Modern vinyl to concrete	Metal and plastic conduit, timber boxing to immersion heater, bitumen sink pad
Birmingham City University	JACK G05	Ground Floor	Textured coating to plasterboard to compressed straw board	Textured coating to brickwork	Carpet tiles to concrete	Metal and plastic conduit, wall mounted radiator, timber shuttering to ceiling vent
Birmingham City University	JACK G06	Ground Floor	Textured coating to plasterboard to compressed straw board	Textured coating to brickwork	Carpet tiles to concrete	Metal and plastic conduit, glass door header panel

Block:	Room:	Floor Level:	Ceiling:	Walls:	Floor:	Other:
Birmingham City University	JACK G07	Ground Floor	Textured coating to plasterboard to compressed straw board	Textured coating to brickwork	Carpet tiles to concrete	Metal and plastic conduit, glass door header panel
Birmingham City University	JACK G08	Ground Floor	Textured coating to plasterboard to compressed straw board	Textured coating to brickwork	Carpet tiles to concrete	Metal and plastic conduit, timber boxing to reinforced plastic downpipe, modern electrics
Birmingham City University	JACK G09	Ground Floor	Plaster to plasterboard to timber ply	Plaster to plasterboard to brickwork	Carpet tiles to concrete	Timber boxing to plastic pipework, plastic trunking, wall mounted radiators, clay surround to vent opening
Birmingham City University	NMUG00B	Ground Floor	Plaster to plasterboard to reinforced plastic to glass fibre insulation to timber	Plaster to brick, plaster to plasterboard	Modern vinyl to concrete	Metal ducting
Birmingham City University	NMUG01	Ground Floor	Timber panels	Brick	Concrete	Timber doors
Birmingham City University	NMUG02	Ground Floor	Foam suspended tiles to plaster to concrete	Plaster to brick	Modern vinyl to concrete	Foam insulated metal pipework, timber boxing to metal pipework

Block:	Room:	Floor Level:	Ceiling:	Walls:	Floor:	Other:
Birmingham City University	NMUG03	Ground Floor	Plaster to concrete	Plaster to brick	Modern vinyl to concrete	Foam insulated metal pipework, timber boxing to metal pipework, ceramic cistern
Birmingham City University	NMUG04	Ground Floor	Plaster to concrete	Plaster to brick, ceramic tiles	Modern vinyl to concrete	Timber boxing to metal pipework, plastic conduit
Birmingham City University	NMUG05	Ground Floor	Compressed fibre suspended tiles to plaster to concrete	Plaster to brick	Carpet tiles to bitumen adhesive to concrete	Timber boxing to metal pipework/ducting, timber panels to ceiling
Birmingham City University	NMUG06	Ground Floor	Compressed fibre suspended tiles to plaster to concrete	Plaster to brick, plaster to plasterboard	Carpet tiles to bitumen adhesive to concrete	Foam insulated metal pipework, foil faced glass fibre insulation to metal pipework
Birmingham City University	NMUG07	Ground Floor	Foam suspended tiles to compressed straw board	Plaster to brick, plaster to plasterboard	Carpet tiles to bitumen adhesive to concrete	Timber boxing to metal pipework/ducting
Birmingham City University	NMUG08	Ground Floor	Foam suspended tiles to compressed straw board	Plaster to brick	Modern vinyl to bitumen adhesive to concrete	Timber boxing to metal pipework/ducting

Block:	Room:	Floor Level:	Ceiling:	Walls:	Floor:	Other:
Birmingham City University	NMUG09	Ground Floor	Foam suspended tiles to compressed straw board	Plaster to brick	Modern vinyl to bitumen adhesive to concrete	Timber boxing to metal pipework/ducting, bitumen flat roof covering
Birmingham City University	NMUG10	Ground Floor	Plaster to plasterboard to compressed straw board	Brick	Carpet to concrete	Modern electrics
Birmingham City University	NMUG11	Ground Floor	Foam suspended ceiling tiles to plaster to concrete, corrugated metal	Plaster to brick, plaster to plasterboard	Carpet tiles to concrete	Steel joist, timber window sill, slate packer, non-suspect felt to extension
Birmingham City University	NMUG12	Ground Floor	Plaster to plasterboard to metal corrugated sheet	Plaster to brick, plaster to plasterboard to block	Carpet tiles to concrete	Modern electrics
Birmingham City University	NMUG13	Ground Floor	Plaster to concrete	Brick, plaster to brick	Modern vinyl to concrete	Metal ducting, timber boxing to reinforced plastic pipework, metal pipework
Birmingham City University	NMUG14	Ground Floor	Plaster to concrete	Plaster to brick	Modern vinyl to concrete	Timber boxing to plastic pipework, ceramic cistern, metal ducting

Block:	Room:	Floor Level:	Ceiling:	Walls:	Floor:	Other:
Birmingham City University	NMUG15	Ground Floor	Plaster to concrete	Plaster to brick	Modern vinyl to bitumen adhesive to concrete	Timber boxing to plastic pipework, metal ducting
Birmingham City University	NMUG16	Ground Floor	Foam suspended tiles to plaster to concrete	Plaster to brick, plaster to glass fibre insulation to plasterboard	Carpet tiles to concrete	Foam insulated metal pipework, foil faced glass fibre insulation to metal pipework, plastic pipework, timber boxing to metal ducting, plasterboard boxing to plastic pipework
Birmingham City University	NMUG17	Ground Floor	Concrete	Brick	Concrete	Foil faced glass fibre insulation to metal pipework, modern wall hung boiler, modern electrics
Birmingham City University	NMUG18	Ground Floor	Plaster to plasterboard	Brick	Concrete	Timber doors
Birmingham City University	NMUG99B	Ground Floor	Compressed fibre suspended ceiling tiles to plaster to concrete, plaster to concrete	Plaster to brick	Modern vinyl to bitumen adhesive to concrete	Metal ducting, metal trunking, modern electrics
Birmingham City University	NMUG99C	Ground Floor	Plaster to plasterboard to metal corrugated sheet	Plaster to brick, plaster to plasterboard	Carpet to modern vinyl to concrete	Timber boxing to modern electrics

Block:	Room:	Floor Level:	Ceiling:	Walls:	Floor:	Other:
Birmingham City University	NMUG99D	Ground Floor	Plaster to concrete	Plaster to brick	Modern vinyl to concrete	Metal pipework
Birmingham City University	NMUG99E	Ground Floor	Plaster to concrete	Plaster to brick	Modern vinyl to concrete	Metal pipework
Birmingham City University	NMU100A	1st Floor	Plaster to plasterboard to reinforced plastic to glass fibre insulation to timber	Plaster to brickwork	Modern vinyl to concrete	Modern electrics, rubber stair nosing
Birmingham City University	NMU101	1st Floor	Plaster to plasterboard to timber to corrugated metal	Plaster to brickwork, plaster to plasterboard	Modern vinyl to bitumen adhesive to concrete	Metal and plastic pipework, modern electrics
Birmingham City University	NMU102	1st Floor	Compressed fibre suspended ceiling tiles to corrugated metal	Plaster to brickwork, plaster to plasterboard	Carpet to modern vinyl to concrete	Metal and plastic pipework, modern electrics
Birmingham City University	NMU103	1st Floor	Compressed fibre suspended ceiling tiles to corrugated metal	Plaster to brickwork, plaster to plasterboard	Carpet to modern vinyl to concrete	Metal and plastic pipework, modern electrics

Block:	Room:	Floor Level:	Ceiling:	Walls:	Floor:	Other:
Birmingham City University	NMU104	1st Floor	Compressed fibre suspended ceiling tiles to corrugated metal	Plaster to brickwork, plaster to plasterboard	Carpet to modern vinyl to concrete	Bitumen sink pad, metal and plastic pipework, modern electrics
Birmingham City University	NMU105	1st Floor	Compressed fibre suspended ceiling tiles to corrugated metal	Plaster to brickwork	Modern vinyl to concrete	Metal and plastic pipework, modern electrics, foil faced glass fibre insulation to metal pipework
Birmingham City University	JACK EXT	E - External	Modern roof covering to timber and compressed strawboard	Brickwork	Not Applicable	Bitumen damp proof course, timber canopies, plastic downpipes, non-suspect expansion joints
Birmingham City University	NMU External	E - External	Metal (corrugated), modern flat roof covering	Brick	Not Applicable	Concrete lintels above windows, metal and plastic rainwater goods, plastic canopy, metal fascias, concrete tiles to timber structure over modern ventilation units

Report No.: J102751 V2
Issue Date: 25/10/2018



7.0 Room Access Report

Block:	Room:	Floor Level:	Surveyed:	Areas Not Accessed:	Reason For No Access:
Birmingham City University	JACK G01	Ground Floor	Accessed	None	Not Applicable
Birmingham City University	JACK G02	Ground Floor	Accessed	None	Not Applicable
Birmingham City University	JACK G03	Ground Floor	Accessed	None	Not Applicable
Birmingham City University	JACK G04	Ground Floor	Accessed	None	Not Applicable
Birmingham City University	JACK G05	Ground Floor	Accessed	None	Not Applicable
Birmingham City University	JACK G06	Ground Floor	Accessed	None	Not Applicable
Birmingham City University	JACK G07	Ground Floor	Accessed	None	Not Applicable
Birmingham City University	JACK G08	Ground Floor	Accessed	None	Not Applicable
Birmingham City University	JACK G09	Ground Floor	Accessed	None	Not Applicable
Birmingham City University	NMUG00B	Ground Floor	Accessed	None	Not Applicable
Birmingham City University	NMUG01	Ground Floor	Accessed	None	Not Applicable
Birmingham City University	NMUG02	Ground Floor	Accessed	None	Not Applicable
Birmingham City University	NMUG03	Ground Floor	Accessed	None	Not Applicable
Birmingham City University	NMUG04	Ground Floor	Accessed	None	Not Applicable
Birmingham City University	NMUG05	Ground Floor	Accessed	None	Not Applicable

Block:	Room:	Floor Level:	Surveyed:	Areas Not Accessed:	Reason For No Access:
Birmingham City University	NMUG06	Ground Floor	Accessed	None	Not Applicable
Birmingham City University	NMUG07	Ground Floor	Accessed	None	Not Applicable
Birmingham City University	NMUG08	Ground Floor	Accessed	None	Not Applicable
Birmingham City University	NMUG09	Ground Floor	Accessed	None	Not Applicable
Birmingham City University	NMUG10	Ground Floor	Accessed	None	Not Applicable
Birmingham City University	NMUG11	Ground Floor	Accessed	None	Not Applicable
Birmingham City University	NMUG12	Ground Floor	Accessed	None	Not Applicable
Birmingham City University	NMUG13	Ground Floor	Accessed	None	Not Applicable
Birmingham City University	NMUG14	Ground Floor	Accessed	None	Not Applicable
Birmingham City University	NMUG15	Ground Floor	Accessed	None	Not Applicable
Birmingham City University	NMUG16	Ground Floor	Accessed	None	Not Applicable
Birmingham City University	NMUG17	Ground Floor	Accessed	None	Not Applicable
Birmingham City University	NMUG18	Ground Floor	Accessed	None	Not Applicable
Birmingham City University	NMUG99B	Ground Floor	Accessed	None	Not Applicable
Birmingham City University	NMUG99C	Ground Floor	Accessed	None	Not Applicable

Block:	Room:	Floor Level:	Surveyed:	Areas Not Accessed:	Reason For No Access:
Birmingham City University	NMUG99D	Ground Floor	Accessed	None	Not Applicable
Birmingham City University	NMUG99E	Ground Floor	Accessed	None	Not Applicable
Birmingham City University	NMU100A	1st Floor	Accessed	None	Not Applicable
Birmingham City University	NMU101	1st Floor	Accessed	None	Not Applicable
Birmingham City University	NMU102	1st Floor	Accessed	None	Not Applicable
Birmingham City University	NMU103	1st Floor	Accessed	None	Not Applicable
Birmingham City University	NMU104	1st Floor	Accessed	None	Not Applicable
Birmingham City University	NMU105	1st Floor	Accessed	None	Not Applicable
Birmingham City University	JACK EXT	E - External	Accessed	None	Not Applicable
Birmingham City University	NMU External	E - External	Accessed	None	Not Applicable

8.0 Bulk Analysis Results

CERTIFICATE OF ANALYSIS

Asbestos Fibre Identification in Bulk Sample

Client WYG Engineering Ltd
Address: Geneva Building
 Lake View Drive
 Sherwood Business Park
 Annesley
 Nottingham
 NG15 0ED

Site Murdoch & Jackson Buildings
Address: Former City North Campus
 Birmingham City University
 Perry Barr
 B42 2US

Samples Received: 11/10/2018

Issue Date: 15/10/2018

Order Placed By: Reg 13(1)

Sampled By: Reg [REDACTED]

Analysed on: 15/10/2018

Authorised Signatory: Reg 13(1) [REDACTED]

Job Title: Laboratory Analyst

Opinions and interpretations including the sample reference are outside the scope of UKAS accreditation					
Report No.: J102751 V2					
Lab Ref.:	Site Ref:	Room:	Sample Reference:	Analysis Result:	Analyst:
DU002590	-	NMU104	Bitumen sink pad	No Asbestos Detected	Reg 13(1)
DU002591	-	NMU101	Asbestos Bitumen adhesive	Chrysotile	Reg 13(1)
DU002592	-	NMUG13	Asbestos Reinforced plastic downpipe	Chrysotile	Reg 13(1)
DU002593	-	NMUG15	Asbestos Bitumen adhesive	Chrysotile	Reg 13(1)

TEST NOTES: The test method is as described in the in-house method (Appendix 7, Quality Manual), based on HSG248. "Crocidolite", "Amosite" and "Chrysotile" are more commonly known as "blue", "brown" and "white" asbestos respectively. "Actinolite", "Anthophyllite" and "Tremolite" are other rarer forms of asbestos. Bradley Environmental Consultants Limited is not responsible for sampling errors where the sample is provided by yourselves. Materials that have been referred to as Asbestos Insulating Board or Asbestos Cement are based on their asbestos content and visual appearance alone (these opinions are not covered by our UKAS accreditation), water absorption tests have not been carried out unless otherwise stated. The report should not be reproduced except in full, without written approval of the laboratory.

Analysed at:

Head Office:
 20 Stourbridge Road,
 Halesowen, West Midlands
 B63 3US
 Tel: 0121 550 0224 Fax: 0121 550 0641
 Email: sales@bradley-enviro.co.uk



Opinions and interpretations including the sample reference are outside the scope of UKAS accreditation

Report No.: J102751 V2

Lab Ref.:	Site Ref:	Room:	Sample Reference:	Analysis Result:	Analyst:
DU002594	-	NMUG09	Asbestos Bitumen flat roof covering	Chrysotile	Reg 13(1)
DU002595	-	NMUG99B	Bitumen adhesive	No Asbestos Detected	Reg 13(1)
DU002596	-	JACK G01	Textured coating to plasterboard ceiling	No Asbestos Detected	Reg 13(1)
DU002597	-	JACK G01	Textured coating to brickwork wall	No Asbestos Detected	Reg 13(1)
DU002598	-	JACK G04	Bitumen sink pad	No Asbestos Detected	Reg 13(1)
DU002599	-	JACK G05	Textured coating to plasterboard ceiling	No Asbestos Detected	Reg 13(1)
DU002600	-	JACK G05	Textured coating to brickwork wall	No Asbestos Detected	Reg 13(1)
DU002601	-	JACK G08	Asbestos Reinforced plastic downpipe	Chrysotile	Reg 13(1)
DU002602	-	JACK EXT	Bitumen damp proof course	No Asbestos Detected	Reg 13(1)

TEST NOTES: The test method is as described in the in-house method (Appendix 7, Quality Manual), based on HSG248. "Crocidolite", "Amosite" and "Chrysotile" are more commonly known as "blue", "brown" and "white" asbestos respectively. "Actinolite", "Anthophyllite" and "Tremolite" are other rarer forms of asbestos. Bradley Environmental Consultants Limited is not responsible for sampling errors where the sample is provided by yourselves. Materials that have been referred to as Asbestos Insulating Board or Asbestos Cement are based on their asbestos content and visual appearance alone (these opinions are not covered by our UKAS accreditation), water absorption tests have not been carried out unless otherwise stated. The report should not be reproduced except in full, without written approval of the laboratory.

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END OF REPORT



Report No.: J102751 V2
Issue Date: 25/10/2018



9.0 Intrusion Photographs

Please note that the intrusion numbers in this section may not run consecutively.

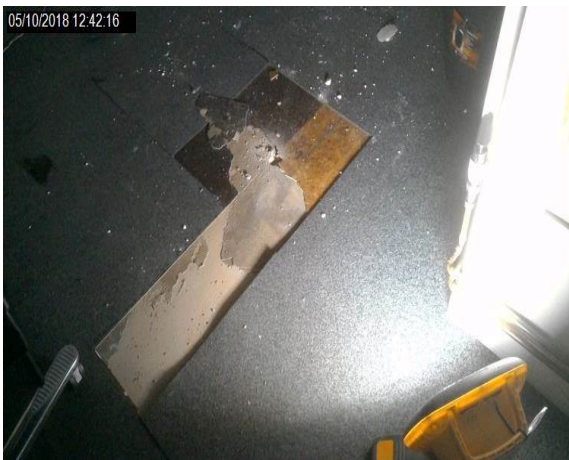
Intrusion 01



Intrusion 02



Intrusion 03



Intrusion 04



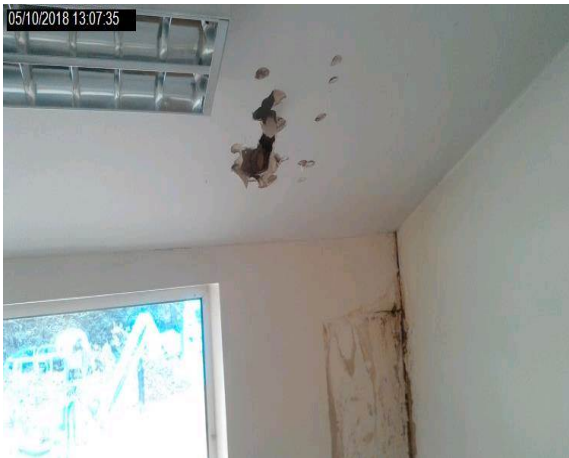
Intrusion 05



Intrusion 06



Intrusion 07



Intrusion 08



Intrusion 09



Intrusion 10



Intrusion 11



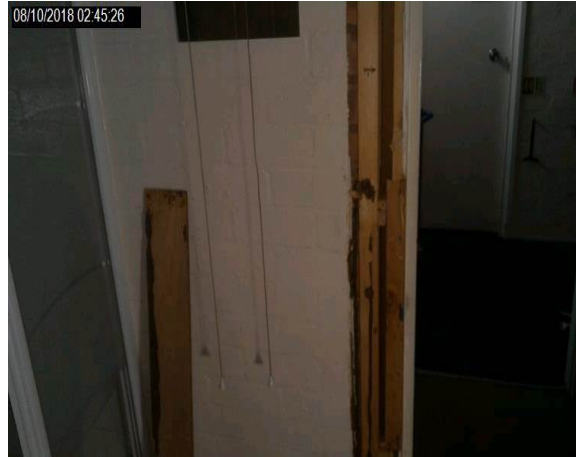
Intrusion 12



Intrusion 13



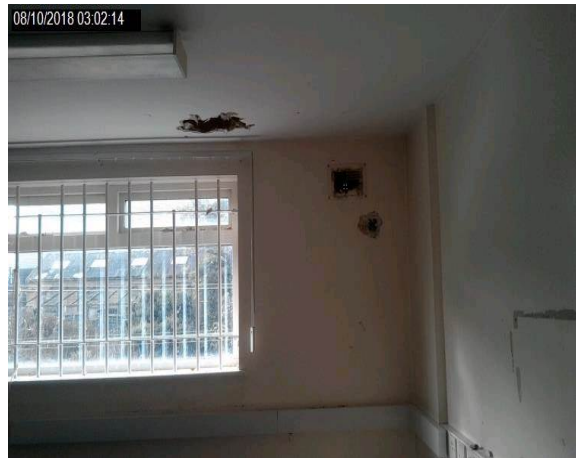
Intrusion 14



Intrusion 15



Intrusion 16



Intrusion 17



Intrusion 18



Intrusion 19



10.0 Risk Assessment Algorithms

Once an asbestos item has been identified, Regulation 4 of CAR2012 requires that a risk assessment be undertaken on the material. The risk assessment contained within this report is based on the **material assessment algorithm**, as defined in HSG264, and the **likelihood of disturbance algorithm** which is *part* of the priority assessment as defined in HSG227.

The score for each assessment is added together to provide an **overall risk rating** based on the material's ability to release airborne fibre *and* the risk of it being disturbed. This overall risk category is shown in section 10.3.

10.1 Material Assessment

The material assessment algorithm provides a numerical indication of the ability of an ACM to release airborne asbestos fibre, if disturbed. A risk category score of between 2 and 12 is assigned to each ACM as shown below:

- < 5 Very low hazard
- 5 & 6 Low hazard
- 7 - 9 Medium hazard
- > 9 High hazard

The table below shows how the individual material assessment scores are calculated:

	SCORE 0	SCORE 1	SCORE 2	SCORE 3
Product type		Composite materials, reinforced plastics, felts, textured coating and asbestos cement (AC) products	Low density boards (i.e. AIB), gaskets, textiles	Sprays, insulation, loose asbestos, mattresses and packing
Extent of damage/deterioration	Good condition: no visible damage	Low damage: a few scratches or damaged edges	Medium damage: significant breakage of materials or several small areas of damage revealing loose fibres	High damage or delamination of materials, sprays and insulation. Visible asbestos debris
Surface treatment	Composite materials, reinforced plastics, textured coating, felts etc	Painted, encapsulated AIB & AC. Enclosed AIB, AC, sprays & lagging, Unencapsulated AC	Unencapsulated AIB. Encapsulated sprays and insulation	Unencapsulated sprays and insulation
Asbestos type		Chrysotile	Amphibole asbestos excluding crocidolite	Crocidolite

10.2 Likelihood of Disturbance Assessment

The likelihood of disturbance algorithm provides a numerical value which helps assess how likely an ACM is to be disturbed.

The following table has been extracted from HSG227 (A comprehensive guide to Managing Asbestos in premises):

SAMPLE VARIABLE	SCORE	EXAMPLES OF SCORES
LOCATION	0	Outdoors
	1	Large rooms or well ventilated areas
	2	Rooms up to 100 sq. m
	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 (i.e. strings, gaskets etc)
	1	<10 sq m or < 10 linear metre pipe run
	2	>10 - <50 sq m or >10m - <50 linear metre pipe run
	3	>50 sq m or >50 linear metre pipe run

10.3 Overall Risk Category

It is recommended that where practicable to do so, the Dutyholder aims to reduce the risk associated with all ACMs to a grade C (low) or D (very low).

Risk Category	Risk	Score Range	Comments and Recommendations
A	High	16+	<p>It is very likely that crumbly loose asbestos may be disturbed releasing a significant quantity of fibres.</p> <p>Plans for urgent remedial work, including possible removal, are required and access to the area should be limited to adequately trained personnel.</p>
B	Medium	11-15	<p>Fibres may be released if the material is further damaged or disturbed.</p> <p>A programme of remedial work (which may include removal) should be planned. Until then, some emergency repairs may be required.</p> <p>The material's condition should be monitored periodically.</p>
C	Low	7-10	<p>Little likelihood of fibres being released under normal conditions, either because of the location of the materials or because the type of material present will only release very low levels of fibres.</p> <p>Immediate work is not needed and any removal can be planned with a suitable timescale. The material should be inspected and assessed at suitable intervals (at least annually).</p>
D	Very Low	<7	<p>Little likelihood that fibres will be released. The material will only need removal if serious damage/deterioration is detected in the future.</p> <p>The material should be inspected and assessed at suitable intervals (at least annually).</p>
E	No asbestos detected	0	No asbestos detected

DISCLAIMER

Bradley Environmental Consultants Ltd have undertaken surveying, sampling and analysis following in-house documented methods, which involve systematic access, inspection and reporting. It is not possible to guarantee that all asbestos will be located within a specified site and we accept no financial or other responsibility for remedial works or disruption to programmes which may occur as a result of asbestos materials being located which are *outside the scope of this survey*.

The survey report should not be reproduced except in full without the approval of the client and Bradley Environmental Consultants Ltd.

Bradley Environmental - Additional Services

Since 1991, Bradley Environmental Consultants have provided a full range of asbestos management services to a wide range of clients including local authorities, hospital trusts and large commercial businesses. A summary of the asbestos related services we are able to offer include the following:

- Management asbestos surveys;
- Refurbishment & demolition asbestos surveys;
- Preparation of Asbestos Management Plans;
- Labelling programmes;
- Cost-effective remedial advice;
- Preparation of removal specifications;
- Evaluation & selection of licensed asbestos removal contractors;
- Preparation of tender documentation;
- Assessment and critical evaluation of method statements;
- Air monitoring during asbestos removal projects;
- Issuing certificates of re-occupation following asbestos removal works;
- Annual re-inspection of ACMs to update the asbestos register;
- Asbestos removal project management.

If you would like any further information regarding your survey, the implementation of a suitable management plan, or any other asbestos-related issue, please do not hesitate to contact us.

Birmingham: (Head Office)	0121 550 0224	Reg 13(1)
Wakefield: (Northern Office)	01924 274 777	Reg 13(1)
Blackpool: (North West Office)	01253 405 396	Reg 13(1)
St Asaph: (North Wales Office)	01745 585 587	Reg 13(1)