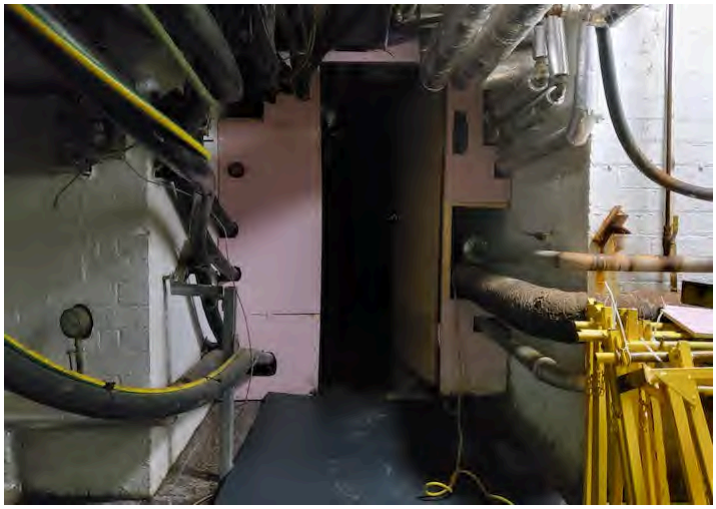
INTELLIGENT ENVIRONMENTAL SERVICES

# ASBESTOS REFURBISHMENT & DEMOLITION SURVEY



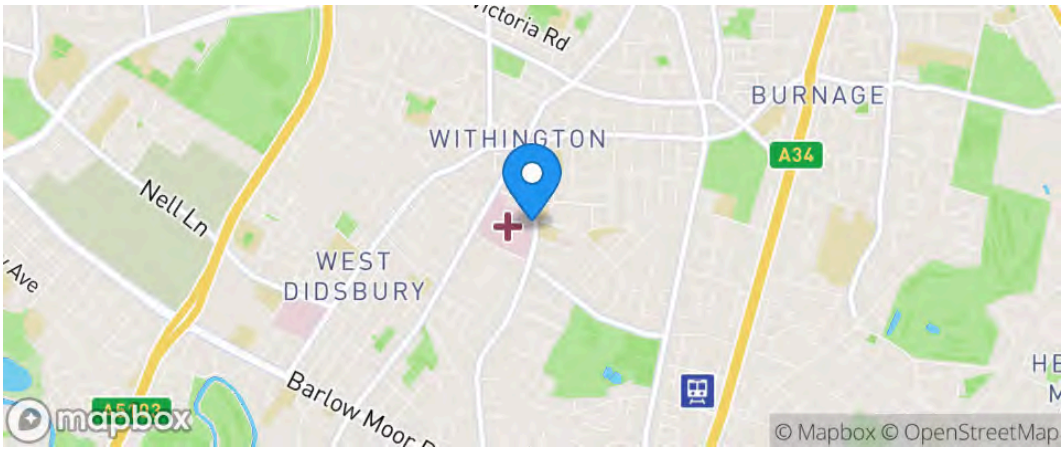
**LOCATION:**
Basement Areas - Blocks 19 & 20
The Christie NHS Foundation
Trust Wilmslow Road Manchester
M20 4BX

**SURVEYED ON:**
15 Aug 2023

**OUR REF:**
A21861

Intelligent Environmental Services LTD
info@i-es.uk
A7 The Dresser Centre, Whitworth St, Openshaw, Manchester M11 2NE

# REPORT DETAILS

| | |
|---|---|
| Report By | Intelligent Environmental Services LTD |
| Client | Vinci |
| Project | A21861 |
| Site Address | Basement Areas - Blocks 19 & 20 The Christie NHS Foundation Trust Wilmslow Road Manchester M20 4BX |
| Site Coordinates | 53.4295649, -2.228165 |
| Site Location |  |
| Surveyors | Andy Simon |
| Survey Dates | 15 Aug 2023 |
| QC Date | 4 Sep 2023 |

## TOTALS

An overview of the data collected on site, during the survey

| Very Low | Low | Medium | High |
|---|---|---|---|
| 1 | 1 | 4 | 21 |

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# SIGN OFF

**Quality Control**
Brent Wardle
4th Sep 2023



# INTRODUCTION

This survey was conducted in accordance with **HSG 264 (Asbestos: The Survey Guide)**. Intelligent Environmental Services LTD cannot accept any liability for loss, injury, damage or penalty issues that arise for reasons of survey scope limitations. Intelligent Environmental Services LTD cannot be held responsible for asbestos potentially present in areas of the building not explicitly specified within the client instruction, not indicated on provided site plans or not physically possible to access. Intelligent Environmental Services LTD cannot be held responsible for any damage caused as part of this survey carried out on your behalf. Due to the nature and necessity of sampling for asbestos some damage is unavoidable and will be limited to that necessary for taking of the samples.

# EXECUTIVE SUMMARY

A Site Specific Asbestos Refurbishment & Demolition survey was carried out to Basement Areas - Blocks 19 & 20 @ The Christie NHS Foundation Trust, Wilmslow Road, Manchester, M20 4BX (see Objectives/Scope for details). 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. This is a fully intrusive survey intended to find any hidden ACMs contained within the main structure of the building.

The majority of the subfloor areas inspected were found to be in reasonable structural condition, however specific sections were impacted by steam, heat and flooding. This impacted our ability to undertake extensive sampling within these areas affected, however please refer to site plans for detailed notes on a section by section basis.

Asbestos Debris and Contamination was identified throughout numerous sub floor sections, including to floors, pipework, pipe insulation, pipe brackets, pipe flanges and pipe hangars. Where identified access should be prohibited until remedial works have been undertaken.

Additionally, visible evidence of historic asbestos remedial works was identified, including the presence of grey ET150 elastomeric sealant. Where encapsulation is evident, low level asbestos contamination should be presumed to still be present beneath painted surfaces, particularly all wall and ceiling surfaces.

The following areas/items are outside the scope of this Refurbishment survey:

1. Within live electrics and plant.
2. Within voids where no access hatch is present.
3. Areas where access may involve excessively damaging the fabric of the building.
4. Areas concealed by suspect asbestos containing materials.
5. Within Live Electrical/ Gas/ Plant and Back Boilers.
6. Areas beyond suspected ACM's
7. Areas of Pipe Lagging to Live Pipes (Burn Hazard).
8. Areas where steam prevented safe means of access.
9. Areas where flooding prevented inspection and sampling.

## SURVEY METHODOLOGY

The survey has been undertaken in accordance with HSG 264 and the in house method of Intelligent Environmental Services LTD. Surveys are undertaken in a logical and methodical manner. Externals will be inspected from high points to low. Internal areas will be inspected from the top floor working down. Complex areas are rechecked. A final walkthrough is undertaken prior to leaving site. Samples are collected in a safe manner; the area is isolated, dust sheets protect surfaces, PPE and RPE is worn, the material has dust suppressant applied, a suitable sampling tool is selected, the full thickness of the material is sampled and placed into a pre-labelled bag. All samples are analysed by a laboratory UKAS accredited to ISO 17025 and in accordance with HSG 248.

## VARIATIONS TO SCOPE

*All areas within scope were accessed during the survey*

## SUMMARY OF ASBESTOS-CONTAINING MATERIALS

These suspected materials were assessed as **asbestos-containing**.

| Building / Level / Location | Item | Material | Material Score | Recommendation | Page |
|---|---|---|---|---|---|
| 19 / -1 / 002 - Duct | Floor | Debris | 10 High | Prohibit access | 35 |
| 19 / -1 / 002 - Duct | Pipe bracket | Insulation | 11 High | Prohibit access | 33 |
| 19 / -1 / 002 - Duct | Pipe Bracket | Insulation | 11 High | Prohibit access | 34 |
| 19 / -1 / 002 - Duct | Pipe hanger | Debris | 11 High | Prohibit access | 31 |
| 19 / -1 / 002 - Duct | Steam Main | Insulation | 11 High | Prohibit access | 30 |
| 19 / -1 / 002 - Duct | Steam Main | Insulation | 11 High | Prohibit access | 32 |
| 19 / -1 / 002 - Plant Area | Walls | Insulation | 11 High | Prohibit access | 37 |
| 19 / -1 / 006 - Duct | Cable trench | Insulation | 8 Medium | Remove | 60 |
| 19 / -1 / 006 - Duct | Cable Wrap | Bituminous Felt | 2 Very Low | Further investigation required | 61 |
| 19 / -1 / 011 - Duct | Debris to floor | Thermal Insulation | 11 High | Prohibit access | 65 |
| 19 / -1 / 011 - Duct | Debris to floor | Thermal Insulation | 11 High | Prohibit access | 70 |
| 19 / -1 / 011 - Duct | Debris to pipe flange | Thermal Insulation | 11 High | Prohibit access | 66 |
| 19 / -1 / 011 - Duct | Debris to unistrut hanger | Thermal Insulation | 11 High | Prohibit access | 67 |
| 19 / -1 / 011 - Duct | Debris to unistrut hanger | Thermal Insulation | 11 High | Prohibit access | 68 |
| 19 / -1 / 011 - Duct | Light Fitting | Textile | 6 Low | Remove | 69 |
| 20 / -1 / 001 - Duct | Brackets | Insulation | 11 High | Prohibit access | 79 |

*table continued from previous page...*

| Building / Level / Location | Item | Material | Material Score | Recommendation | Page |
|---|---|---|---|---|---|
| 20 / -1 / 001 - Duct | Cable duct | Insulation | 7 Medium | Restrict access | 86 |
| 20 / -1 / 001 - Duct | Floor | Debris | 12 High | Prohibit access | 78 |
| 20 / -1 / 001 - Duct | Floor | Debris | 10 High | Prohibit access | 82 |
| 20 / -1 / 001 - Duct | Floor | Debris | 11 High | Prohibit access | 85 |
| 20 / -1 / 001 - Duct | Pipes | Insulation | 11 High | Prohibit access | 80 |
| 20 / -1 / 001 - Duct | Walls | Insulation | 8 Medium | Encapsulate | 88 |
| 21 / -1 / 009 Duct | Debris on cable | Insulation | 12 High | Prohibit access | 95 |
| 21 / -1 / 009 Duct | Debris on cable | Insulation | 12 High | Prohibit access | 97 |
| 21 / -1 / 009 Duct | Floor | Insulation | 10 High | Prohibit access | 98 |
| 21 / -1 / 009 Duct | Floor undercrofts | Insulation | 9 Medium | Further investigation required | 99 |
| 21 / -1 / 009 Duct | Pipe | Insulation | 12 High | Encapsulate | 96 |

## SUMMARY OF NON-ASBESTOS-CONTAINING MATERIALS

These suspected materials were assessed as **non-asbestos-containing**.

| Building / Level / Location | Item | Material | Page |
|---|---|---|---|
| 19 / -1 / 001 - Duct | Floor | Insulation | 25 |
| 19 / -1 / 001 - Duct | Pipe bracket | Insulation | 27 |
| 19 / -1 / 001 - Duct | Pipe hanger | Insulation | 26 |
| 19 / -1 / 001 - Duct | Pipe penetration | Insulation | 28 |
| 19 / -1 / 001 - Duct | Walls | Insulation | 23 |
| 19 / -1 / 001 - Duct | Walls | Insulation | 24 |
| 19 / -1 / 002 - Plant Area | Pipe Bracket | Insulation | 40 |
| 19 / -1 / 002 - Plant Area | Pipe hanger | Debris | 41 |
| 19 / -1 / 002 - Plant Area | Walls | Insulation | 38 |
| 19 / -1 / 002 - Plant Area | Walls | Insulation | 39 |
| 19 / -1 / 003 - Main Duct | Pipe Bracket | Insulation | 43 |
| 19 / -1 / 003 - Main Duct | Sectional thermal insulation | Insulation | 45 |
| 19 / -1 / 003 - Main Duct | Walls | Insulation | 44 |
| 19 / -1 / 004 - Archive Room | Dust debris to cables adj 19/-1/06 | Thermal Insulation | 48 |
| 19 / -1 / 004 - Archive Room | Dust debris to floor adj 19/-1/06 | Thermal Insulation | 54 |
| 19 / -1 / 004 - Archive Room | Dust debris to floor adj 19/-1/07 | Thermal Insulation | 55 |
| 19 / -1 / 004 - Archive Room | Floor tiles | Vinyl Tile | 53 |
| 19 / -1 / 004 - Archive Room | Generic dust debris on top of filing cabinet | Thermal Insulation | 49 |
| 19 / -1 / 004 - Archive Room | Generic dust debris on top of filing cabinets | Thermal Insulation | 51 |
| 19 / -1 / 004 - Archive Room | Generic dust debris to floor | Thermal Insulation | 50 |
| 19 / -1 / 004 - Archive Room | Generic dust debris to floor adj 19/-1-1 | Thermal Insulation | 52 |
| 19 / -1 / 004 - Archive Room | Insulation residues | Thermal Insulation | 47 |
| 19 / -1 / 006 - Duct | Floor | Debris | 57 |
| 19 / -1 / 006 - Duct | Floor | Debris | 58 |
| 19 / -1 / 006 - Duct | Floor | Debris | 59 |

*table continued from previous page...*

| Building / Level / Location | Item | Material | Page |
|---|---|---|---|
| 19 / -1 / 017 - Lobby | Debris to floor adj 19/-1-10 | Thermal Insulation | 75 |
| 19 / -1 / 017 - Lobby | Debris to ledge adj 19/-1-11 | Thermal Insulation | 73 |
| 19 / -1 / 017 - Lobby | Debris to ledge adj 19/-1-11 | Thermal Insulation | 74 |
| 19 / -1 / 017 - Lobby | Pipe bracket | Thermal Insulation | 72 |
| 20 / -1 / 001 - Duct | Brackets | Insulation | 84 |
| 20 / -1 / 001 - Duct | Floor | Debris | 81 |
| 20 / -1 / 001 - Duct | Pipework | Insulation | 77 |
| 20 / -1 / 001 - Duct | Wall | Insulation | 83 |
| 21 / -1 / 009 Duct | Debris to floor/ vent stack | Insulation | 92 |
| 21 / -1 / 009 Duct | Floor | Insulation | 91 |
| 21 / -1 / 009 Duct | Floor | Insulation | 94 |
| 21 / -1 / 009 Duct | Pipe | Insulation | 93 |
| 21 / -1 / 009 Duct | Pipework | Insulation | 89 |
| 21 / -1 / 009 Duct | Walls | Bituminous Felt | 90 |
| 30 / -1 / 008 - Duct | Debris to floor | Thermal Insulation | 101 |
| 30 / -1 / 008 - Duct | Debris to pipe bracket | Thermal Insulation | 102 |
| 30 / -1 / 008 - Duct | Debris to pipe bracket | Thermal Insulation | 104 |
| 30 / -1 / 008 - Duct | Debris to unistrut hanger | Thermal Insulation | 103 |

## SUMMARY OF LOCATIONS OR ITEMS OF LIMITED ACCESS

These locations or items could not be fully accessed during survey. Asbestos should be presumed to be present until a further assessment can be undertaken. Note that the survey scope may exclude other areas - see **Report Details (p. 2)** and **Variations to Scope (p. 5)**.

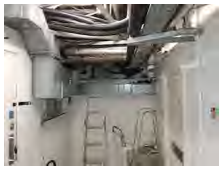
| Building / Level / Location | Inspect | Access / Notes | Photo 1 | Photo 2 | Page |
|---|---|---|---|---|---|
| 19 / -1 / 003 - Main Duct | Location | Limited Access / The area has a leaking pipe adjacent the steam main, this is increasing temperature and humidity in this area, therefore limiting survey duration. Samples were taken away from this area for safety reasons. |  | | 46 |
| 19 / -1 / 008 - Archive Room | Location | No Access / No key available, held off site |  | | 63 |
| 19 / -1 / 010 - Electrical Room | Location | No Access / Hospital AP required to access |  | | 64 |
| 19 / -1 / 011 - Duct | Location | Limited Access / Around live cables and steam mains, for safety reasons. |  | | 71 |
| 19 / -1 / 017 - Lobby | Location | Limited Access / Above and to rear of live cables. Limited removal of insulation to prevent the spread of asbestos. |  | | 76 |

*table continued from previous page...*

| Building / Level / Location | Inspect | Access / Notes | Photo 1 | Photo 2 | Page |
|---|---|---|---|---|---|
| 20 / -1 / 001 - Duct | Floor | Limited Access / Beneath expanding foam |  |  | 85 |
| 21 / -1 / 009 Duct | Pipe | Limited Access / Contaminated area |  |  | 96 |
| 30 / -1 / 008 - Duct | Location | Limited Access / Around live cables and steam mains, for safety reasons. |  | | 105 |

# REGISTER

| Building / Level / Location | Item | Material | Strategy / Sample Id | Extent | Fibre Type | Product Type | Extent of Damage | Surface Treatment | Material Score | Recommendation | Page |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 19 / -1 / 002 - Duct | Floor | Debris | Sample 040 | 60 m2 | Chrysotile | 3 | 3 | 3 | 10 High | Prohibit access | 35 |
| 19 / -1 / 002 - Duct | Pipe bracket | Insulation | Sample 038 | 1 m2 | Amosite | 3 | 3 | 3 | 11 High | Prohibit access | 33 |
| 19 / -1 / 002 - Duct | Pipe Bracket | Insulation | Sample 039 | 1 m2 | Amosite | 3 | 3 | 3 | 11 High | Prohibit access | 34 |
| 19 / -1 / 002 - Duct | Pipe hanger | Debris | Sample 036 | 4 m2 | Amosite | 3 | 3 | 3 | 11 High | Prohibit access | 31 |
| 19 / -1 / 002 - Duct | Steam Main | Insulation | Sample 035 | 30 m lin | Amosite and Chrysotile | 3 | 3 | 3 | 11 High | Prohibit access | 30 |
| 19 / -1 / 002 - Duct | Steam Main | Insulation | Sample 037 | 1 m2 | Amosite | 3 | 3 | 3 | 11 High | Prohibit access | 32 |
| 19 / -1 / 002 - Plant Area | Walls | Insulation | Sample 030 | 2 m2 | Amosite | 3 | 3 | 3 | 11 High | Prohibit access | 37 |
| 19 / -1 / 006 - Duct | Cable trench | Insulation | Strongly Presume | 3 m2 | Amosite | 3 | 2 | 1 | 8 Medium | Remove | 60 |
| 19 / -1 / 006 - Duct | Cable Wrap | Bituminous Felt | Presume | 300 m lin | Chrysotile | 1 | 0 | 0 | 2 Very Low | Further investigation required | 61 |
| 19 / -1 / 011 - Duct | Debris to floor | Thermal Insulation | Sample 001 | 5 m2 | Amosite | 3 | 3 | 3 | 11 High | Prohibit access | 65 |
| 19 / -1 / 011 - Duct | Debris to floor | Thermal Insulation | Sample 005 | 20 m2 | Amosite | 3 | 3 | 3 | 11 High | Prohibit access | 70 |
| 19 / -1 / 011 - Duct | Debris to pipe flange | Thermal Insulation | Sample 002 | 1 m2 | Amosite | 3 | 3 | 3 | 11 High | Prohibit access | 66 |
| 19 / -1 / 011 - Duct | Debris to unistrut hanger | Thermal Insulation | Sample 003 | 1 m2 | Amosite | 3 | 3 | 3 | 11 High | Prohibit access | 67 |

*table continued from previous page...*

| Building / Level / Location | Item | Material | Strategy / Sample Id | Extent | Fibre Type | Product Type | Extent of Damage | Surface Treatment | Material Score | Recommendation | Page |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 19 / -1 / 011 - Duct | Debris to unistrut hanger | Thermal Insulation | Strongly Presume 003 | 1 m2 | Amosite | 3 | 3 | 3 | 11 High | Prohibit access | 68 |
| 19 / -1 / 011 - Duct | Light Fitting | Textile | Sample 004 | 1 No. | Chrysotile | 2 | 1 | 2 | 6 Low | Remove | 69 |
| 20 / -1 / 001 - Duct | Brackets | Insulation | Sample 043 | 40 m lin | Amosite and Chrysotile | 3 | 3 | 3 | 11 High | Prohibit access | 79 |
| 20 / -1 / 001 - Duct | Cable duct | Insulation | Strongly Presume | 2 m2 | Amosite | 3 | 1 | 1 | 7 Medium | Restrict access | 86 |
| 20 / -1 / 001 - Duct | Floor | Debris | Sample 042 | 10 m2 | Chrysotile and Crocidolite | 3 | 3 | 3 | 12 High | Prohibit access | 78 |
| 20 / -1 / 001 - Duct | Floor | Debris | Sample 046 | 10 m2 | Chrysotile | 3 | 3 | 3 | 10 High | Prohibit access | 82 |
| 20 / -1 / 001 - Duct | Floor | Debris | Sample 049 | 10 m2 | Amosite | 3 | 3 | 3 | 11 High | Prohibit access | 85 |
| 20 / -1 / 001 - Duct | Pipes | Insulation | Sample 044 | 40 m lin | Amosite | 3 | 3 | 3 | 11 High | Prohibit access | 80 |
| 20 / -1 / 001 - Duct | Walls | Insulation | Strongly Presume | 200 m2 | Amosite | 3 | 1 | 2 | 8 Medium | Encapsulate | 88 |
| 21 / -1 / 009 Duct | Debris on cable | Insulation | Sample 056 | 1 m2 | Chrysotile and Crocidolite | 3 | 3 | 3 | 12 High | Prohibit access | 95 |
| 21 / -1 / 009 Duct | Debris on cable | Insulation | Sample 057 | 1 m2 | Amosite, Chrysotile and Crocidolite | 3 | 3 | 3 | 12 High | Prohibit access | 97 |
| 21 / -1 / 009 Duct | Floor | Insulation | Sample 058 | 4 m2 | Chrysotile | 3 | 3 | 3 | 10 High | Prohibit access | 98 |

*table continued from previous page...*

| Building / Level / Location | Item | Material | Strategy / Sample Id | Extent | Fibre Type | Product Type | Extent of Damage | Surface Treatment | Material Score | Recommendation | Page |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 21 / -1 / 009 Duct | Floor undercrofts | Insulation | Strongly Presume | Unknown | Amosite | 3 | 2 | 2 | 9 Medium | Further investigation required | **99** |
| 21 / -1 / 009 Duct | Pipe | Insulation | Strongly Presume 056 | Unknown | Chrysotile and Crocidolite | 3 | 3 | 3 | 12 High | Encapsulate | **96** |

# INSPECTED LOCATIONS AND ITEMS

A summary of all locations and items inspected during the survey, including ACMs, non-ACMs and items & locations that could not be fully accessed.

| Building / Level / Location | Item | Material | Access / Notes | Material Score | Recommendation | Page |
|---|---|---|---|---|---|---|
| 19 / -1 / 001 - Duct | Concrete soffit and brick walls, crushed brick floor. cables and small pipes to right, Numerous aged pipe hangers, some. Walls heavily encapsulated and evidence of previous asbestos abatement. | | | | | 29 |
| 19 / -1 / 001 - Duct | Floor | Insulation | | 0 None | | 25 |
| 19 / -1 / 001 - Duct | Pipe bracket | Insulation | | 0 None | | 27 |
| 19 / -1 / 001 - Duct | Pipe hanger | Insulation | | 0 None | | 26 |
| 19 / -1 / 001 - Duct | Pipe penetration | Insulation | | 0 None | | 28 |
| 19 / -1 / 001 - Duct | Walls | Insulation | | 0 None | | 23 |
| 19 / -1 / 001 - Duct | Walls | Insulation | | 0 None | | 24 |
| 19 / -1 / 002 - Duct | Concrete soffit and floor brick walls, cables and small pipes to left, larger bore pipes insulated in mmmf to left hand wall. Numerous aged pipe hangers, some pipes appear to be newer. Two large bore pipes are active steam mains, replace sections intermittently. Walls heavily encapsulated and evidence of previous asbestos abatement. | | | | | 36 |
| 19 / -1 / 002 - Duct | Floor | Debris | | 10 High | Prohibit access | 35 |
| 19 / -1 / 002 - Duct | Pipe bracket | Insulation | | 11 High | Prohibit access | 33 |
| 19 / -1 / 002 - Duct | Pipe Bracket | Insulation | | 11 High | Prohibit access | 34 |

*table continued from previous page...*

| Building / Level / Location | Item | Material | Access / Notes | Material Score | Recommendation | Page |
|---|---|---|---|---|---|---|
| 19 / -1 / 002 - Duct | Pipe hanger | Debris | | 11 High | Prohibit access | 31 |
| 19 / -1 / 002 - Duct | Steam Main | Insulation | | 11 High | Prohibit access | 30 |
| 19 / -1 / 002 - Duct | Steam Main | Insulation | | 11 High | Prohibit access | 32 |
| 19 / -1 / 002 - Plant Area | Concrete soffit and brick walls, concrete floor. cables and small pipes to right, Numerous aged pipe hangers, numerous pipes of more modern appearance some. Walls un-encapsulated and evidence of previous asbestos abatement, snots and smears more evident to walls in this area. Ductwork present. | | | | | 42 |
| 19 / -1 / 002 - Plant Area | Pipe Bracket | Insulation | | 0 None | | 40 |
| 19 / -1 / 002 - Plant Area | Pipe hanger | Debris | | 0 None | | 41 |
| 19 / -1 / 002 - Plant Area | Walls | Insulation | | 11 High | Prohibit access | 37 |
| 19 / -1 / 002 - Plant Area | Walls | Insulation | | 0 None | | 38 |
| 19 / -1 / 002 - Plant Area | Walls | Insulation | | 0 None | | 39 |
| 19 / -1 / 003 - Main Duct | Concrete soffit and floor brick walls, cables and small pipes to left, larger bore pipes insulated in mmmf to right hand wall. Numerous aged pipe hangers, some pipes appear to be newer. Two large bore pipes are active steam mains. Walls heavily encapsulated and evidence of previous asbestos abatement. | | Limited Access / The area has a leaking pipe adjacent the steam main, this is increasing temperature and humidity in this area, therefore limiting survey duration. Samples were taken away from this area for safety reasons. | | | 46 |
| 19 / -1 / 003 - Main Duct | Pipe Bracket | Insulation | | 0 None | | 43 |

*table continued from previous page...*

| Building / Level / Location | Item | Material | Access / Notes | Material Score | Recommendation | Page |
|---|---|---|---|---|---|---|
| 19 / -1 / 003 - Main Duct | Sectional thermal insulation | Insulation | | 0 None | | 45 |
| 19 / -1 / 003 - Main Duct | Walls | Insulation | | 0 None | | 44 |
| 19 / -1 / 004 - Archive Room | Concrete ceiling, Brick walls, raised timber floor, vinyl tiles | | | | | 56 |
| 19 / -1 / 004 - Archive Room | Dust debris to cables adj 19/-1/06 | Thermal Insulation | | 0 None | | 48 |
| 19 / -1 / 004 - Archive Room | Dust debris to floor adj 19/-1/06 | Thermal Insulation | | 0 None | | 54 |
| 19 / -1 / 004 - Archive Room | Dust debris to floor adj 19/-1/07 | Thermal Insulation | | 0 None | | 55 |
| 19 / -1 / 004 - Archive Room | Floor tiles | Vinyl Tile | | 0 None | | 53 |
| 19 / -1 / 004 - Archive Room | Generic dust debris on top of filing cabinet | Thermal Insulation | | 0 None | | 49 |
| 19 / -1 / 004 - Archive Room | Generic dust debris on top of filing cabinets | Thermal Insulation | | 0 None | | 51 |
| 19 / -1 / 004 - Archive Room | Generic dust debris to floor | Thermal Insulation | | 0 None | | 50 |
| 19 / -1 / 004 - Archive Room | Generic dust debris to floor adj 19/-1-1 | Thermal Insulation | | 0 None | | 52 |
| 19 / -1 / 004 - Archive Room | Insulation residues | Thermal Insulation | | 0 None | | 47 |
| 19 / -1 / 006 - Duct | Concrete soffit and brick walls, concrete floor. cables and small pipes to right, Numerous aged pipe hangers, numerous pipes of more modern appearance some. Walls encapsulated and evidence of previous asbestos abatement | | | | | 62 |
| 19 / -1 / 006 - Duct | Cable trench | Insulation | | 8 Medium | Remove | 60 |

*table continued from previous page...*

| Building / Level / Location | Item | Material | Access / Notes | Material Score | Recommendation | Page |
|---|---|---|---|---|---|---|
| 19 / -1 / 006 - Duct | Cable Wrap | Bituminous Felt | | 2 Very Low | Further investigation required | 61 |
| 19 / -1 / 006 - Duct | Floor | Debris | | 0 None | | 57 |
| 19 / -1 / 006 - Duct | Floor | Debris | | 0 None | | 58 |
| 19 / -1 / 006 - Duct | Floor | Debris | | 0 None | | 59 |
| 19 / -1 / 008 - Archive Room | No access to area, assessment of asbestos risk first | | No Access / No key available, held off site | | | 63 |
| 19 / -1 / 010 - Electrical Room | No access to area AP required, assessment of asbestos risk first | | No Access / Hospital AP required to access | | | 64 |
| 19 / -1 / 011 - Duct | Concrete soffit and floor brick walls, cables and small pipes to left, larger bore pipes insulated in mmmf to right hand wall. Numerous aged pipe hangers, some pipes appear to be newer. Two large bore pipes are active steam mains | | Limited Access / Around live cables and steam mains, for safety reasons. | | | 71 |
| 19 / -1 / 011 - Duct | Debris to floor | Thermal Insulation | | 11 High | Prohibit access | 65 |
| 19 / -1 / 011 - Duct | Debris to floor | Thermal Insulation | | 11 High | Prohibit access | 70 |
| 19 / -1 / 011 - Duct | Debris to pipe flange | Thermal Insulation | | 11 High | Prohibit access | 66 |
| 19 / -1 / 011 - Duct | Debris to unistrut hanger | Thermal Insulation | | 11 High | Prohibit access | 67 |
| 19 / -1 / 011 - Duct | Debris to unistrut hanger | Thermal Insulation | | 11 High | Prohibit access | 68 |
| 19 / -1 / 011 - Duct | Light Fitting | Textile | | 6 Low | Remove | 69 |

*table continued from previous page...*

| Building / Level / Location | Item | Material | Access / Notes | Material Score | Recommendation | Page |
|---|---|---|---|---|---|---|
| 19 / -1 / 017 - Lobby | Concrete soffit, brick walls, vinyl over concrete floor, numerous mmmf wrapped pipes and service cables | | Limited Access / Above and to rear of live cables. Limited removal of insulation to prevent the spread of asbestos. | | | 76 |
| 19 / -1 / 017 - Lobby | Debris to floor adj 19/-1-10 | Thermal Insulation | | 0 None | | 75 |
| 19 / -1 / 017 - Lobby | Debris to ledge adj 19/-1-11 | Thermal Insulation | | 0 None | | 73 |
| 19 / -1 / 017 - Lobby | Debris to ledge adj 19/-1-11 | Thermal Insulation | | 0 None | | 74 |
| 19 / -1 / 017 - Lobby | Pipe bracket | Thermal Insulation | | 0 None | | 72 |
| 20 / -1 / 001 - Duct | Concrete soffit and brick walls, concrete floor. cables and small pipes to right, Numerous aged pipe hangers, numerous pipes of more modern appearance some. Walls encapsulated and evidence of previous asbestos abatement. | | | | | 87 |
| 20 / -1 / 001 - Duct | Brackets | Insulation | | 11 High | Prohibit access | 79 |
| 20 / -1 / 001 - Duct | Brackets | Insulation | | 0 None | | 84 |
| 20 / -1 / 001 - Duct | Cable duct | Insulation | | 7 Medium | Restrict access | 86 |
| 20 / -1 / 001 - Duct | Floor | Debris | | 12 High | Prohibit access | 78 |
| 20 / -1 / 001 - Duct | Floor | Debris | | 0 None | | 81 |
| 20 / -1 / 001 - Duct | Floor | Debris | | 10 High | Prohibit access | 82 |
| 20 / -1 / 001 - Duct | Floor | Debris | Limited Access / Beneath expanding foam | 11 High | Prohibit access | 85 |

*table continued from previous page...*

| Building / Level / Location | Item | Material | Access / Notes | Material Score | Recommendation | Page |
|---|---|---|---|---|---|---|
| 20 / -1 / 001 - Duct | Pipes | Insulation | | 11 High | Prohibit access | 80 |
| 20 / -1 / 001 - Duct | Pipework | Insulation | | 0 None | | 77 |
| 20 / -1 / 001 - Duct | Wall | Insulation | | 0 None | | 83 |
| 20 / -1 / 001 - Duct | Walls | Insulation | | 8 Medium | Encapsulate | 88 |
| 21 / -1 / 009 Duct | Concrete soffit and floor brick walls, cables and small pipes to left, larger bore pipes insulated in mmmf to left hand wall. Numerous aged pipe hangers, some pipes appear to be newer. Two large bore pipes are active steam mains, replace sections intermittently. Walls heavily encapsulated and evidence of previous asbestos abatement. | | | | | 100 |
| 21 / -1 / 009 Duct | Debris on cable | Insulation | | 12 High | Prohibit access | 95 |
| 21 / -1 / 009 Duct | Debris on cable | Insulation | | 12 High | Prohibit access | 97 |
| 21 / -1 / 009 Duct | Debris to floor/ vent stack | Insulation | | 0 None | | 92 |
| 21 / -1 / 009 Duct | Floor | Insulation | | 0 None | | 91 |
| 21 / -1 / 009 Duct | Floor | Insulation | | 0 None | | 94 |
| 21 / -1 / 009 Duct | Floor | Insulation | | 10 High | Prohibit access | 98 |
| 21 / -1 / 009 Duct | Floor undercrofts | Insulation | | 9 Medium | Further investigation required | 99 |
| 21 / -1 / 009 Duct | Pipe | Insulation | | 0 None | | 93 |

*table continued from previous page...*

| Building / Level / Location | Item | Material | Access / Notes | Material Score | Recommendation | Page |
|---|---|---|---|---|---|---|
| 21 / -1 / 009 Duct | Pipe | Insulation | Limited Access / Contaminated area | 12 High | Encapsulate | 96 |
| 21 / -1 / 009 Duct | Pipework | Insulation | | 0 None | | 89 |
| 21 / -1 / 009 Duct | Walls | Bituminous Felt | | 0 None | | 90 |
| 30 / -1 / 008 - Duct | Concrete soffit and floor brick walls, cables and small pipes to left, larger bore pipes insulated in mmmf to right hand wall. Numerous aged pipe hangers, some pipes appear to be newer. Two large bore pipes are active steam mains | | Limited Access / Around live cables and steam mains, for safety reasons. | | | 105 |
| 30 / -1 / 008 - Duct | Debris to floor | Thermal Insulation | | 0 None | | 101 |
| 30 / -1 / 008 - Duct | Debris to pipe bracket | Thermal Insulation | | 0 None | | 102 |
| 30 / -1 / 008 - Duct | Debris to pipe bracket | Thermal Insulation | | 0 None | | 104 |
| 30 / -1 / 008 - Duct | Debris to unistrut hanger | Thermal Insulation | | 0 None | | 103 |

# INSPECTION PHOTOGRAPHS

*See following pages for additional photographs,*
*notes and scores for inspected locations and items...*

## 19 > -1 > 001 - DUCT > WALLS

| | | | |
|---|---|---|---|
| **Building** | 19 | **Level** | -1 |
| **Location** | 001 - Duct | **Item** | Walls |
| **Material** | Insulation | **Extent** | 40 m2 |
|  | |  | |
| **Strategy / Sample Id** | Sample / 024 | **Fibre Type** | NADIS |
| **General Comments** | Encapsulated paint delaminating at mortar beds due to humidity | | |

## 19 > -1 > 001 - DUCT > WALLS

| | | | |
|---|---|---|---|
| **Building** | 19 | **Level** | -1 |
| **Location** | 001 - Duct | **Item** | Walls |
| **Material** | Insulation | **Extent** | 40 m2 |
|  | |  | |
| **Strategy / Sample Id** | Sample / 025 | **Fibre Type** | NADIS |
| **General Comments** | Encapsulant paint delaminating at mortar beds due to humidity | | |

## 19 > -1 > 001 - DUCT > FLOOR

| | | | |
|---|---|---|---|
| **Building** | 19 | **Level** | -1 |
| **Location** | 001 - Duct | **Item** | Floor |
| **Material** | Insulation | **Extent** | 1 m2 |
|  | |  | |
| **Strategy / Sample Id** | Sample / 026 | **Fibre Type** | NADIS |
| **General Comments** | Generic dust debris sweep | | |

## 19 > -1 > 001 - DUCT > PIPE HANGER

| | | | |
|---|---|---|---|
| **Building** | 19 | **Level** | -1 |
| **Location** | 001 - Duct | **Item** | Pipe hanger |
| **Material** | Insulation | **Extent** | 4 m2 |
|  | |  | |
| **Strategy / Sample Id** | Sample / 027 | **Fibre Type** | NADIS |

## 19 > -1 > 001 - DUCT > PIPE BRACKET

| | | | |
|---|---|---|---|
| **Building** | 19 | **Level** | -1 |
| **Location** | 001 - Duct | **Item** | Pipe bracket |
| **Material** | Insulation | **Extent** | 4 m2 |
|  | |  | |
| **Strategy / Sample Id** | Sample / 028 | **Fibre Type** | NADIS |

## 19 > -1 > 001 - DUCT > PIPE PENETRATION

| | | | |
|---|---|---|---|
| **Building** | 19 | **Level** | -1 |
| **Location** | 001 - Duct | **Item** | Pipe penetration |
| **Material** | Insulation | **Extent** | 1 m2 |
|  | |  | |
| **Strategy / Sample Id** | Sample / 029 | **Fibre Type** | NADIS |
| **General Comments** | Generic Dust Debris | | |

## 19 > -1 > 001 - DUCT > LOCATION NOTES

| | | | |
|---|---|---|---|
| Building | 19 | Level | -1 |
| Location | 001 - Duct | Item | |
|  | | | |
| Location Notes | Concrete soffit and brick walls, crushed brick floor. cables and small pipes to right, Numerous aged pipe hangers, some. Walls heavily encapsulated and evidence of previous asbestos abatement. | | |

## 19 > -1 > 002 - DUCT > STEAM MAIN

| | | | |
|---|---|---|---|
| **Building** | 19 | **Level** | -1 |
| **Location** | 002 - Duct | **Item** | Steam Main |
| **Material** | Insulation | **Extent** | 30 m lin |





| | | | |
|---|---|---|---|
| **Strategy / Sample Id** | Sample / 035 | **Fibre Type** | Amosite and Chrysotile |
| **Recommendation** | Prohibit access | | |
| **General Comments** | Around aged flange | | |

Material Assessment

| | | | |
|---|---|---|---|
| Product Type (or Debris from Product) | 3 | Extent of Damage / Deterioration | 3 |
| Surface Type / Treatment | 3 | Asbestos Type | 2 |
| Material Score | | 11 / High | |

## 19 > -1 > 002 - DUCT > PIPE HANGER

| | | | |
|---|---|---|---|
| **Building** | 19 | **Level** | -1 |
| **Location** | 002 - Duct | **Item** | Pipe hanger |
| **Material** | Debris | **Extent** | 4 m2 |
|  | |  | |
| **Strategy / Sample Id** | Sample / 036 | **Fibre Type** | Amosite |
| **Recommendation** | Prohibit access | | |

Material Assessment

| | | | |
|---|---|---|---|
| Product Type (or Debris from Product) | 3 | Extent of Damage / Deterioration | 3 |
| Surface Type / Treatment | 3 | Asbestos Type | 2 |
| Material Score | | 11 / High | |

## 19 > -1 > 002 - DUCT > STEAM MAIN

| | | | |
|---|---|---|---|
| **Building** | 19 | **Level** | -1 |
| **Location** | 002 - Duct | **Item** | Steam Main |
| **Material** | Insulation | **Extent** | 1 m2 |
|  | |  | |
| **Strategy / Sample Id** | Sample / 037 | **Fibre Type** | Amosite |
| **Recommendation** | Prohibit access | | |

Material Assessment

| | | | |
|---|---|---|---|
| Product Type (or Debris from Product) | 3 | Extent of Damage / Deterioration | 3 |
| Surface Type / Treatment | 3 | Asbestos Type | 2 |
| Material Score | | 11 / High | |

## 19 > -1 > 002 - DUCT > PIPE BRACKET

| | | | |
|---|---|---|---|
| **Building** | 19 | **Level** | -1 |
| **Location** | 002 - Duct | **Item** | Pipe bracket |
| **Material** | Insulation | **Extent** | 1 m2 |
|  | |  | |
| **Strategy / Sample Id** | Sample / 038 | **Fibre Type** | Amosite |
| **Recommendation** | Prohibit access | | |

Material Assessment

| | | | |
|---|---|---|---|
| Product Type (or Debris from Product) | 3 | Extent of Damage / Deterioration | 3 |
| Surface Type / Treatment | 3 | Asbestos Type | 2 |
| Material Score | | 11 / High | |

## 19 > -1 > 002 - DUCT > PIPE BRACKET

| | | | |
|---|---|---|---|
| **Building** | 19 | **Level** | -1 |
| **Location** | 002 - Duct | **Item** | Pipe Bracket |
| **Material** | Insulation | **Extent** | 1 m2 |
|  | |  | |
| **Strategy / Sample Id** | Sample / 039 | **Fibre Type** | Amosite |
| **Recommendation** | Prohibit access | | |

Material Assessment

| | | | |
|---|---|---|---|
| Product Type (or Debris from Product) | 3 | Extent of Damage / Deterioration | 3 |
| Surface Type / Treatment | 3 | Asbestos Type | 2 |
| Material Score | | 11 / High | |

## 19 > -1 > 002 - DUCT > FLOOR

| | | | |
|---|---|---|---|
| **Building** | 19 | **Level** | -1 |
| **Location** | 002 - Duct | **Item** | Floor |
| **Material** | Debris | **Extent** | 60 m2 |
|  | |  | |
| **Strategy / Sample Id** | Sample / 040 | **Fibre Type** | Chrysotile |
| **Recommendation** | Prohibit access | | |
| **General Comments** | Flooded in most areas, with visible running water | | |

Material Assessment

| | | | |
|---|---|---|---|
| Product Type (or Debris from Product) | 3 | Extent of Damage / Deterioration | 3 |
| Surface Type / Treatment | 3 | Asbestos Type | 1 |
| Material Score | | 10 / High | |

## 19 > -1 > 002 - DUCT > LOCATION NOTES

| | | | |
|---|---|---|---|
| Building | 19 | Level | -1 |
| Location | 002 - Duct | Item | |
|  | | | |
| Location Notes | Concrete soffit and floor brick walls, cables and small pipes to left, larger bore pipes insulated in mmmf to left hand wall. Numerous aged pipe hangers, some pipes appear to be newer. Two large bore pipes are active steam mains, replace sections intermittently. Walls heavily encapsulated and evidence of previous asbestos abatement. | | |

## 19 > -1 > 002 - PLANT AREA > WALLS

| | | | |
|---|---|---|---|
| **Building** | 19 | **Level** | -1 |
| **Location** | 002 - Plant Area | **Item** | Walls |
| **Material** | Insulation | **Extent** | 2 m2 |
|  | |  | |
| **Strategy / Sample Id** | Sample / 030 | **Fibre Type** | Amosite |
| **Recommendation** | Prohibit access | | |
| **General Comments** | Around pipe penetration | | |

Material Assessment

| | | | |
|---|---|---|---|
| Product Type (or Debris from Product) | 3 | Extent of Damage / Deterioration | 3 |
| Surface Type / Treatment | 3 | Asbestos Type | 2 |
| Material Score | | 11 / High | |

## 19 > -1 > 002 - PLANT AREA > WALLS

| | | | |
|---|---|---|---|
| **Building** | 19 | **Level** | -1 |
| **Location** | 002 - Plant Area | **Item** | Walls |
| **Material** | Insulation | **Extent** | 40 m2 |
|  | |  | |
| **Strategy / Sample Id** | Sample / 031 | **Fibre Type** | NADIS |
| **General Comments** | Around pipe penetration | | |

## 19 > -1 > 002 - PLANT AREA > WALLS

| | | | |
|---|---|---|---|
| **Building** | 19 | **Level** | -1 |
| **Location** | 002 - Plant Area | **Item** | Walls |
| **Material** | Insulation | **Extent** | 40 m2 |
|  | |  | |
| **Strategy / Sample Id** | Sample / 032 | **Fibre Type** | NADIS |
| **General Comments** | Around pipe penetration | | |

## 19 > -1 > 002 - PLANT AREA > PIPE BRACKET

| | | | |
|---|---|---|---|
| **Building** | 19 | **Level** | -1 |
| **Location** | 002 - Plant Area | **Item** | Pipe Bracket |
| **Material** | Insulation | **Extent** | 1 m2 |
|  | |  | |
| **Strategy / Sample Id** | Sample / 033 | **Fibre Type** | NADIS |

## 19 > -1 > 002 - PLANT AREA > PIPE HANGER

| | | | |
|---|---|---|---|
| **Building** | 19 | **Level** | -1 |
| **Location** | 002 - Plant Area | **Item** | Pipe hanger |
| **Material** | Debris | **Extent** | 1 m2 |
|  | |  | |
| **Strategy / Sample Id** | Sample / 034 | **Fibre Type** | NADIS |

## 19 > -1 > 002 - PLANT AREA > LOCATION NOTES

| | | | |
|---|---|---|---|
| Building | 19 | Level | -1 |
| Location | 002 - Plant Area | Item | |
|  | | | |
| Location Notes | Concrete soffit and brick walls, concrete floor. cables and small pipes to right, Numerous aged pipe hangers, numerous pipes of more modern appearance some. Walls un-encapsulated and evidence of previous asbestos abatement, snots and smears more evident to walls in this area. Ductwork present. | | |

## 19 > -1 > 003 - MAIN DUCT > PIPE BRACKET

| | | | |
|---|---|---|---|
| **Building** | 19 | **Level** | -1 |
| **Location** | 003 - Main Duct | **Item** | Pipe Bracket |
| **Material** | Insulation | **Extent** | 4 m2 |
|  | |  | |
| **Strategy / Sample Id** | Sample / 021 | **Fibre Type** | NADIS |
| **General Comments** | Trapped in cable tray | | |

## 19 > -1 > 003 - MAIN DUCT > WALLS

| | | | |
|---|---|---|---|
| **Building** | 19 | **Level** | -1 |
| **Location** | 003 - Main Duct | **Item** | Walls |
| **Material** | Insulation | **Extent** | Unknown |
|  | |  | |
| **Strategy / Sample Id** | Sample / 022 | **Fibre Type** | NADIS |
| **General Comments** | Previous sample location left exposed | | |

## 19 > -1 > 003 - MAIN DUCT > SECTIONAL THERMAL INSULATION

| | | | |
|---|---|---|---|
| **Building** | 19 | **Level** | -1 |
| **Location** | 003 - Main Duct | **Item** | Sectional thermal insulation |
| **Material** | Insulation | **Extent** | 40 m lin |
|  | |  | |
| **Strategy / Sample Id** | Sample / 023 | **Fibre Type** | NADIS |
| **General Comments** | Modern calcil insulation to repaired steam main | | |

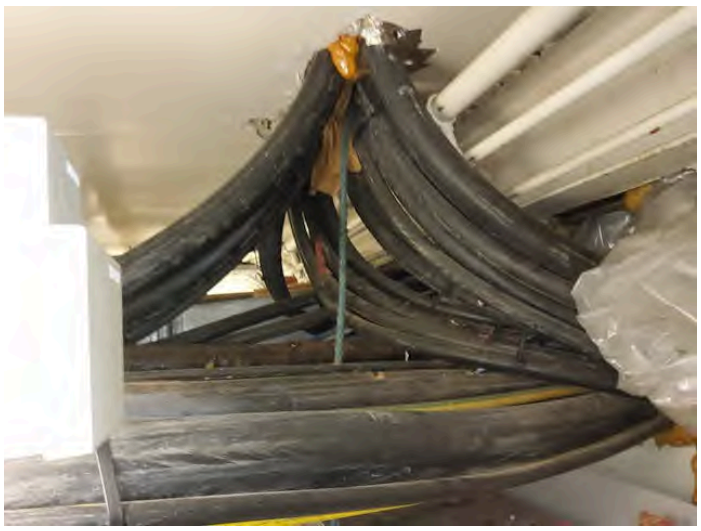
## 19 > -1 > 003 - MAIN DUCT > LOCATION NOTES

| | | | |
|---|---|---|---|
| Building | 19 | Level | -1 |
| Location | 003 - Main Duct | Item | |
|  | | | |
| Location Notes | Concrete soffit and floor brick walls, cables and small pipes to left, larger bore pipes insulated in mmmf to right hand wall. Numerous aged pipe hangers, some pipes appear to be newer. Two large bore pipes are active steam mains. Walls heavily encapsulated and evidence of previous asbestos abatement. | | |
| Access / Notes | Limited Access / The area has a leaking pipe adjacent the steam main, this is increasing temperature and humidity in this area, therefore limiting survey duration. Samples were taken away from this area for safety reasons. | | |
| General Comments | The floor of this area is flooded to a depth of approx 3 inches, limiting the possibility of debris samples to ascertain cleanliness | | |

## 19 > -1 > 004 - ARCHIVE ROOM > INSULATION RESIDUES

| | | | |
|---|---|---|---|
| **Building** | 19 | **Level** | -1 |
| **Location** | 004 - Archive Room | **Item** | Insulation residues |
| **Material** | Thermal Insulation | **Extent** | 1 m2 |
|  | |  | |
| **Strategy / Sample Id** | Sample / 010 | **Fibre Type** | NADIS |

## 19 > -1 > 004 - ARCHIVE ROOM > DUST DEBRIS TO CABLES ADJ 19/-1/06

| | | | |
|---|---|---|---|
| **Building** | 19 | **Level** | -1 |
| **Location** | 004 - Archive Room | **Item** | Dust debris to cables adj 19/-1/06 |
| **Material** | Thermal Insulation | **Extent** | 3 m2 |
|  | |  | |
| **Strategy / Sample Id** | Sample / 011 | **Fibre Type** | NADIS |

## 19 > -1 > 004 - ARCHIVE ROOM > GENERIC DUST DEBRIS ON TOP OF FILING CABINET

| | | | |
|---|---|---|---|
| **Building** | 19 | **Level** | -1 |
| **Location** | 004 - Archive Room | **Item** | Generic dust debris on top of filing cabinet |
| **Material** | Thermal Insulation | **Extent** | 20 m2 |
|  | |  | |
| **Strategy / Sample Id** | Sample / 012 | **Fibre Type** | NADIS |
| **General Comments** | Pre transit route samples | | |

## 19 > -1 > 004 - ARCHIVE ROOM > GENERIC DUST DEBRIS TO FLOOR

| | | | |
|---|---|---|---|
| **Building** | 19 | **Level** | -1 |
| **Location** | 004 - Archive Room | **Item** | Generic dust debris to floor |
| **Material** | Thermal Insulation | **Extent** | 20 m2 |
|  | |  | |
| **Strategy / Sample Id** | Sample / 013 | **Fibre Type** | NADIS |
| **General Comments** | Pre transit route samples | | |

## 19 > -1 > 004 - ARCHIVE ROOM > GENERIC DUST DEBRIS ON TOP OF FILING CABINETS

| | | | |
|---|---|---|---|
| **Building** | 19 | **Level** | -1 |
| **Location** | 004 - Archive Room | **Item** | Generic dust debris on top of filing cabinets |
| **Material** | Thermal Insulation | **Extent** | 20 m2 |
|  | |  | |
| **Strategy / Sample Id** | Sample / 014 | **Fibre Type** | NADIS |
| **General Comments** | Pre transit route samples | | |

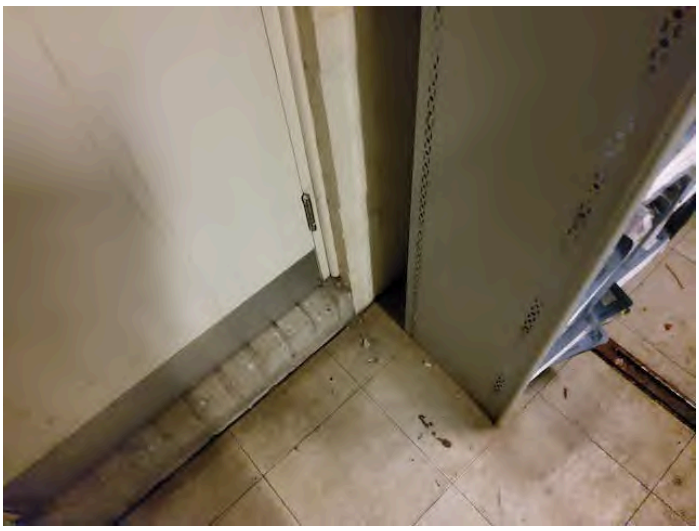
## 19 > -1 > 004 - ARCHIVE ROOM > GENERIC DUST DEBRIS TO FLOOR ADJ 19/-1-1

| | | | |
|---|---|---|---|
| **Building** | 19 | **Level** | -1 |
| **Location** | 004 - Archive Room | **Item** | Generic dust debris to floor adj 19/-1-1 |
| **Material** | Thermal Insulation | **Extent** | 2 m2 |
|  | |  | |
| **Strategy / Sample Id** | Sample / 015 | **Fibre Type** | NADIS |
| **General Comments** | Pre transit route samples | | |

## 19 > -1 > 004 - ARCHIVE ROOM > FLOOR TILES

| | | | |
|---|---|---|---|
| **Building** | 19 | **Level** | -1 |
| **Location** | 004 - Archive Room | **Item** | Floor tiles |
| **Material** | Vinyl Tile | **Extent** | 35 m2 |
|  | |  | |
| **Strategy / Sample Id** | Sample / 016 | **Fibre Type** | NADIS |

## 19 > -1 > 004 - ARCHIVE ROOM > DUST DEBRIS TO FLOOR ADJ 19/-1/06

| | | | |
|---|---|---|---|
| **Building** | 19 | **Level** | -1 |
| **Location** | 004 - Archive Room | **Item** | Dust debris to floor adj 19/-1/06 |
| **Material** | Thermal Insulation | **Extent** | 3 m2 |
|  | |  | |
| **Strategy / Sample Id** | Sample / 062 | **Fibre Type** | NADIS |
| **General Comments** | Post Survey samples | | |

## 19 > -1 > 004 - ARCHIVE ROOM > DUST DEBRIS TO FLOOR ADJ 19/-1/07

| | | | |
|---|---|---|---|
| **Building** | 19 | **Level** | -1 |
| **Location** | 004 - Archive Room | **Item** | Dust debris to floor adj 19/-1/07 |
| **Material** | Thermal Insulation | **Extent** | 3 m2 |
|  | |  | |
| **Strategy / Sample Id** | Sample / 063 | **Fibre Type** | NADIS |
| **General Comments** | Post Survey samples | | |

## 19 > -1 > 004 - ARCHIVE ROOM > LOCATION NOTES

| | | | |
|---|---|---|---|
| Building | 19 | Level | -1 |
| Location | 004 - Archive Room | Item | |
|  | | | |
| Location Notes | Concrete ceiling, Brick walls, raised timber floor, vinyl tiles | | |

## 19 > -1 > 006 - DUCT > FLOOR

| | | | |
|---|---|---|---|
| **Building** | 19 | **Level** | -1 |
| **Location** | 006 - Duct | **Item** | Floor |
| **Material** | Debris | **Extent** | 2 No. |
|  | |  | |
| **Strategy / Sample Id** | Sample / 059 | **Fibre Type** | NADIS |
| **General Comments** | Generic dust debris sweep | | |

## 19 > -1 > 006 - DUCT > FLOOR

| | | | |
|---|---|---|---|
| **Building** | 19 | **Level** | -1 |
| **Location** | 006 - Duct | **Item** | Floor |
| **Material** | Debris | **Extent** | 10 m2 |
|  | |  | |
| **Strategy / Sample Id** | Sample / 060 | **Fibre Type** | NADIS |
| **General Comments** | Generic dust debris sweep | | |

## 19 > -1 > 006 - DUCT > FLOOR

| | | | |
|---|---|---|---|
| **Building** | 19 | **Level** | -1 |
| **Location** | 006 - Duct | **Item** | Floor |
| **Material** | Debris | **Extent** | 10 m2 |
|  | |  | |
| **Strategy / Sample Id** | Sample / 061 | **Fibre Type** | NADIS |
| **General Comments** | Generic dust debris sweep lower level | | |

## 19 > -1 > 006 - DUCT > CABLE TRENCH

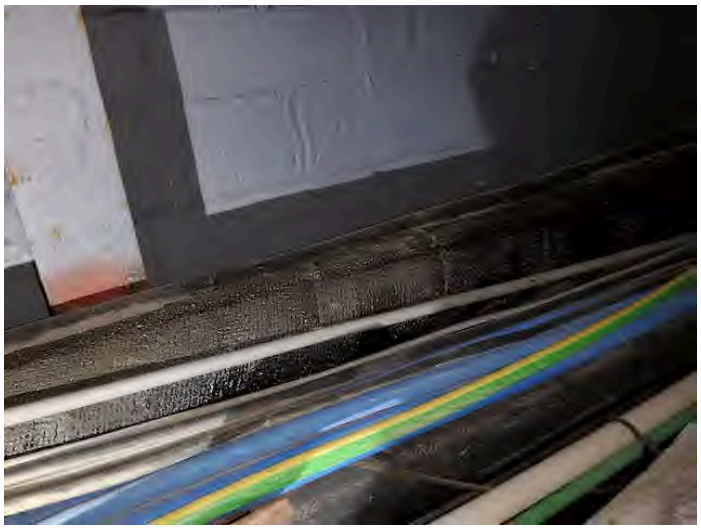
| | | | |
|---|---|---|---|
| **Building** | 19 | **Level** | -1 |
| **Location** | 006 - Duct | **Item** | Cable trench |
| **Material** | Insulation | **Extent** | 3 m2 |
|  | |  | |
| **Strategy / Sample Id** | Strongly Presume | **Presumed Fibre Type** | Amosite |
| **Recommendation** | Remove | | |

Material Assessment

| | | | |
|---|---|---|---|
| Product Type (or Debris from Product) | 3 | Extent of Damage / Deterioration | 2 |
| Surface Type / Treatment | 1 | Asbestos Type | 2 |
| Material Score | | 8 / Medium | |

## 19 > -1 > 006 - DUCT > CABLE WRAP

| | | | |
|---|---|---|---|
| **Building** | 19 | **Level** | -1 |
| **Location** | 006 - Duct | **Item** | Cable Wrap |
| **Material** | Bituminous Felt | **Extent** | 300 m lin |





| | | | |
|---|---|---|---|
| **Strategy / Sample Id** | Presume | **Presumed Fibre Type** | Chrysotile |
| **Recommendation** | Further investigation required | | |
| **General Comments** | Unsafe to sample potentially live | | |

Material Assessment

| | | | |
|---|---|---|---|
| Product Type (or Debris from Product) | 1 | Extent of Damage / Deterioration | 0 |
| Surface Type / Treatment | 0 | Asbestos Type | 1 |
| Material Score | | 2 / Very Low | |

## 19 > -1 > 006 - DUCT > LOCATION NOTES

| | | | |
|---|---|---|---|
| Building | 19 | Level | -1 |
| Location | 006 - Duct | Item | |
|  | | | |
| Location Notes | Concrete soffit and brick walls, concrete floor. cables and small pipes to right, Numerous aged pipe hangers, numerous pipes of more modern appearance some. Walls encapsulated and evidence of previous asbestos abatement | | |

## 19 > -1 > 008 - ARCHIVE ROOM > LOCATION NOTES

| | | | |
|---|---|---|---|
| Building | 19 | Level | -1 |
| Location | 008 - Archive Room | Item | |
|  | | | |
| Location Notes | No access to area, assessment of asbestos risk first | | |
| Access / Notes | No Access / No key available, held off site | | |

## 19 > -1 > 010 - ELECTRICAL ROOM > LOCATION NOTES

| | | | |
|---|---|---|---|
| Building | 19 | Level | -1 |
| Location | 010 - Electrical Room | Item | |
|  | | | |
| Location Notes | No access to area AP required, assessment of asbestos risk first | | |
| Access / Notes | No Access / Hospital AP required to access | | |

## 19 > -1 > 011 - DUCT > DEBRIS TO FLOOR

| | | | |
|---|---|---|---|
| **Building** | 19 | **Level** | -1 |
| **Location** | 011 - Duct | **Item** | Debris to floor |
| **Material** | Thermal Insulation | **Extent** | 5 m2 |
|  | |  | |
| **Strategy / Sample Id** | Sample / 001 | **Fibre Type** | Amosite |
| **Recommendation** | Prohibit access | | |

Material Assessment

| | | | |
|---|---|---|---|
| Product Type (or Debris from Product) | 3 | Extent of Damage / Deterioration | 3 |
| Surface Type / Treatment | 3 | Asbestos Type | 2 |
| Material Score | | 11 / High | |

## 19 > -1 > 011 - DUCT > DEBRIS TO PIPE FLANGE

| | | | |
|---|---|---|---|
| **Building** | 19 | **Level** | -1 |
| **Location** | 011 - Duct | **Item** | Debris to pipe flange |
| **Material** | Thermal Insulation | **Extent** | 1 m2 |
|  | |  | |
| **Strategy / Sample Id** | Sample / 002 | **Fibre Type** | Amosite |
| **Recommendation** | Prohibit access | | |

Material Assessment

| | | | |
|---|---|---|---|
| Product Type (or Debris from Product) | 3 | Extent of Damage / Deterioration | 3 |
| Surface Type / Treatment | 3 | Asbestos Type | 2 |
| Material Score | | 11 / High | |

## 19 > -1 > 011 - DUCT > DEBRIS TO UNISTRUT HANGER

| | | | |
|---|---|---|---|
| **Building** | 19 | **Level** | -1 |
| **Location** | 011 - Duct | **Item** | Debris to unistrut hanger |
| **Material** | Thermal Insulation | **Extent** | 1 m2 |
|  | |  | |
| **Strategy / Sample Id** | Sample / 003 | **Fibre Type** | Amosite |
| **Recommendation** | Prohibit access | | |

Material Assessment

| | | | |
|---|---|---|---|
| Product Type (or Debris from Product) | 3 | Extent of Damage / Deterioration | 3 |
| Surface Type / Treatment | 3 | Asbestos Type | 2 |
| Material Score | | 11 / High | |

## 19 > -1 > 011 - DUCT > DEBRIS TO UNISTRUT HANGER

| | | | |
|---|---|---|---|
| **Building** | 19 | **Level** | -1 |
| **Location** | 011 - Duct | **Item** | Debris to unistrut hanger |
| **Material** | Thermal Insulation | **Extent** | 1 m2 |





| | | | |
|---|---|---|---|
| **Strategy / Sample Id** | Strongly Presume / 003 | **Presumed Fibre Type** | Amosite |
| **Recommendation** | Prohibit access | | |

Material Assessment

| | | | |
|---|---|---|---|
| Product Type (or Debris from Product) | 3 | Extent of Damage / Deterioration | 3 |
| Surface Type / Treatment | 3 | Asbestos Type | 2 |
| Material Score | | 11 / High | |

## 19 > -1 > 011 - DUCT > LIGHT FITTING

| | | | |
|---|---|---|---|
| **Building** | 19 | **Level** | -1 |
| **Location** | 011 - Duct | **Item** | Light Fitting |
| **Material** | Textile | **Extent** | 1 No. |
|  | |  | |
| **Strategy / Sample Id** | Sample / 004 | **Fibre Type** | Chrysotile |
| **Recommendation** | Remove | | |

Material Assessment

| | | | |
|---|---|---|---|
| Product Type (or Debris from Product) | 2 | Extent of Damage / Deterioration | 1 |
| Surface Type / Treatment | 2 | Asbestos Type | 1 |
| Material Score | | 6 / Low | |

## 19 > -1 > 011 - DUCT > DEBRIS TO FLOOR

| | | | |
|---|---|---|---|
| **Building** | 19 | **Level** | -1 |
| **Location** | 011 - Duct | **Item** | Debris to floor |
| **Material** | Thermal Insulation | **Extent** | 20 m2 |
|  | |  | |
| **Strategy / Sample Id** | Sample / 005 | **Fibre Type** | Amosite |
| **Recommendation** | Prohibit access | | |
| **General Comments** | Composite floor debris sample in absence of visible asbestos acccumulations | | |

Material Assessment

| | | | |
|---|---|---|---|
| Product Type (or Debris from Product) | 3 | Extent of Damage / Deterioration | 3 |
| Surface Type / Treatment | 3 | Asbestos Type | 2 |
| Material Score | | 11 / High | |

## 19 > -1 > 011 - DUCT > LOCATION NOTES

| | | | |
|---|---|---|---|
| Building | 19 | Level | -1 |
| Location | 011 - Duct | Item | |
|  | | | |
| Location Notes | Concrete soffit and floor brick walls, cables and small pipes to left, larger bore pipes insulated in mmmf to right hand wall. Numerous aged pipe hangers, some pipes appear to be newer. Two large bore pipes are active steam mains | | |
| Access / Notes | Limited Access / Around live cables and steam mains, for safety reasons. | | |

## 19 > -1 > 017 - LOBBY > PIPE BRACKET

| | | | |
|---|---|---|---|
| **Building** | 19 | **Level** | -1 |
| **Location** | 017 - Lobby | **Item** | Pipe bracket |
| **Material** | Thermal Insulation | **Extent** | 1 m2 |
|  | |  | |
| **Strategy / Sample Id** | Sample / 017 | **Fibre Type** | NADIS |

## 19 > -1 > 017 - LOBBY > DEBRIS TO LEDGE ADJ 19/-1-11

| | | | |
|---|---|---|---|
| **Building** | 19 | **Level** | -1 |
| **Location** | 017 - Lobby | **Item** | Debris to ledge adj 19/-1-11 |
| **Material** | Thermal Insulation | **Extent** | 2 m2 |
|  | |  | |
| **Strategy / Sample Id** | Sample / 018 | **Fibre Type** | NADIS |
| **General Comments** | Pre transit route samples | | |

## 19 > -1 > 017 - LOBBY > DEBRIS TO LEDGE ADJ 19/-1-11

| | | | |
|---|---|---|---|
| **Building** | 19 | **Level** | -1 |
| **Location** | 017 - Lobby | **Item** | Debris to ledge adj 19/-1-11 |
| **Material** | Thermal Insulation | **Extent** | 2 m2 |
|  | |  | |
| **Strategy / Sample Id** | Sample / 019 | **Fibre Type** | NADIS |
| **General Comments** | Pre transit route samples | | |

## 19 > -1 > 017 - LOBBY > DEBRIS TO FLOOR ADJ 19/-1-10

| | | | |
|---|---|---|---|
| **Building** | 19 | **Level** | -1 |
| **Location** | 017 - Lobby | **Item** | Debris to floor adj 19/-1-10 |
| **Material** | Thermal Insulation | **Extent** | 2 m2 |
|  | |  | |
| **Strategy / Sample Id** | Sample / 020 | **Fibre Type** | NADIS |
| **General Comments** | Pre transit route samples | | |

## 19 > -1 > 017 - LOBBY > LOCATION NOTES

| | | | |
|---|---|---|---|
| Building | 19 | Level | -1 |
| Location | 017 - Lobby | Item | |
|  | | | |
| Location Notes | Concrete soffit, brick walls, vinyl over concrete floor, numerous mmmf wrapped pipes and service cables | | |
| Access / Notes | Limited Access / Above and to rear of live cables. Limited removal of insulation to prevent the spread of asbestos. | | |

## 20 > -1 > 001 - DUCT > PIPEWORK

| | | | |
|---|---|---|---|
| **Building** | 20 | **Level** | -1 |
| **Location** | 001 - Duct | **Item** | Pipework |
| **Material** | Insulation | **Extent** | 5 m2 |
|  | |  | |
| **Strategy / Sample Id** | Sample / 041 | **Fibre Type** | NADIS |
| **General Comments** | Sampled around foam seals from previous segregation at end of void | | |

## 20 > -1 > 001 - DUCT > FLOOR

| | | | |
|---|---|---|---|
| **Building** | 20 | **Level** | -1 |
| **Location** | 001 - Duct | **Item** | Floor |
| **Material** | Debris | **Extent** | 10 m2 |
|  | |  | |
| **Strategy / Sample Id** | Sample / 042 | **Fibre Type** | Chrysotile and Crocidolite |
| **Recommendation** | Prohibit access | | |
| **General Comments** | Generic dust debris sweep | | |

Material Assessment

| | | | |
|---|---|---|---|
| Product Type (or Debris from Product) | 3 | Extent of Damage / Deterioration | 3 |
| Surface Type / Treatment | 3 | Asbestos Type | 3 |
| Material Score | | 12 / High | |

## 20 > -1 > 001 - DUCT > BRACKETS

| | | | |
|---|---|---|---|
| **Building** | 20 | **Level** | -1 |
| **Location** | 001 - Duct | **Item** | Brackets |
| **Material** | Insulation | **Extent** | 40 m lin |





| | | | |
|---|---|---|---|
| **Strategy / Sample Id** | Sample / 043 | **Fibre Type** | Amosite and Chrysotile |
| **Recommendation** | Prohibit access | | |
| **General Comments** | Generic Dust Debris scrape | | |

Material Assessment

| | | | |
|---|---|---|---|
| Product Type (or Debris from Product) | 3 | Extent of Damage / Deterioration | 3 |
| Surface Type / Treatment | 3 | Asbestos Type | 2 |
| Material Score | | 11 / High | |

## 20 > -1 > 001 - DUCT > PIPES

| | | | |
|---|---|---|---|
| **Building** | 20 | **Level** | -1 |
| **Location** | 001 - Duct | **Item** | Pipes |
| **Material** | Insulation | **Extent** | 40 m lin |





| | | | |
|---|---|---|---|
| **Strategy / Sample Id** | Sample / 044 | **Fibre Type** | Amosite |
| **Recommendation** | Prohibit access | | |
| **General Comments** | Generic Dust Debris scrape | | |

Material Assessment

| | | | |
|---|---|---|---|
| Product Type (or Debris from Product) | 3 | Extent of Damage / Deterioration | 3 |
| Surface Type / Treatment | 3 | Asbestos Type | 2 |
| Material Score | | 11 / High | |

## 20 > -1 > 001 - DUCT > FLOOR

| | | | |
|---|---|---|---|
| **Building** | 20 | **Level** | -1 |
| **Location** | 001 - Duct | **Item** | Floor |
| **Material** | Debris | **Extent** | 10 m2 |
|  | |  | |
| **Strategy / Sample Id** | Sample / 045 | **Fibre Type** | NADIS |
| **General Comments** | Generic dust debris sweep | | |

## 20 > -1 > 001 - DUCT > FLOOR

| | | | |
|---|---|---|---|
| **Building** | 20 | **Level** | -1 |
| **Location** | 001 - Duct | **Item** | Floor |
| **Material** | Debris | **Extent** | 10 m2 |
|  | |  | |
| **Strategy / Sample Id** | Sample / 046 | **Fibre Type** | Chrysotile |
| **Recommendation** | Prohibit access | | |
| **General Comments** | Generic dust debris sweep | | |

Material Assessment

| | | | |
|---|---|---|---|
| Product Type (or Debris from Product) | 3 | Extent of Damage / Deterioration | 3 |
| Surface Type / Treatment | 3 | Asbestos Type | 1 |
| Material Score | | 10 / High | |

## 20 > -1 > 001 - DUCT > WALL

| | | | |
|---|---|---|---|
| **Building** | 20 | **Level** | -1 |
| **Location** | 001 - Duct | **Item** | Wall |
| **Material** | Insulation | **Extent** | 40 m2 |
|  | |  | |
| **Strategy / Sample Id** | Sample / 047 | **Fibre Type** | NADIS |
| **General Comments** | Where paint is failing | | |

## 20 > -1 > 001 - DUCT > BRACKETS

| | | | |
|---|---|---|---|
| **Building** | 20 | **Level** | -1 |
| **Location** | 001 - Duct | **Item** | Brackets |
| **Material** | Insulation | **Extent** | 1 m2 |
|  | |  | |
| **Strategy / Sample Id** | Sample / 048 | **Fibre Type** | NADIS |
| **General Comments** | Generic Dust Debris scrape | | |

## 20 > -1 > 001 - DUCT > FLOOR

| | | | |
|---|---|---|---|
| **Building** | 20 | **Level** | -1 |
| **Location** | 001 - Duct | **Item** | Floor |
| **Material** | Debris | **Extent** | 10 m2 |





| | | | |
|---|---|---|---|
| **Access / Notes** | Limited Access / Beneath expanding foam | | |
| **Strategy / Sample Id** | Sample / 049 | **Fibre Type** | Amosite |
| **Recommendation** | Prohibit access | | |
| **General Comments** | Generic dust debris sweep by labelled cable trench | | |

Material Assessment

| | | | |
|---|---|---|---|
| **Product Type (or Debris from Product)** | 3 | **Extent of Damage / Deterioration** | 3 |
| **Surface Type / Treatment** | 3 | **Asbestos Type** | 2 |
| **Material Score** | | 11 / High | |

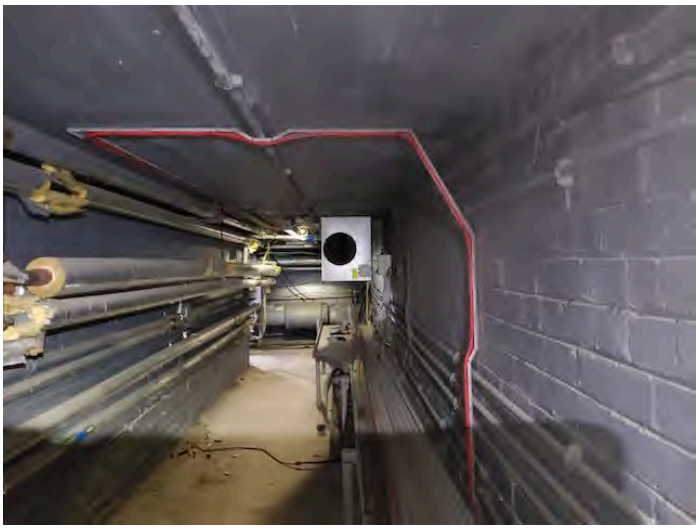
## 20 > -1 > 001 - DUCT > CABLE DUCT

| | | | |
|---|---|---|---|
| **Building** | 20 | **Level** | -1 |
| **Location** | 001 - Duct | **Item** | Cable duct |
| **Material** | Insulation | **Extent** | 2 m2 |
|  | |  | |
| **Strategy / Sample Id** | Strongly Presume | **Presumed Fibre Type** | Amosite |
| **Recommendation** | Restrict access | | |
| **General Comments** | Cable duct labelled as asbestos containing | | |

Material Assessment

| | | | |
|---|---|---|---|
| Product Type (or Debris from Product) | 3 | Extent of Damage / Deterioration | 1 |
| Surface Type / Treatment | 1 | Asbestos Type | 2 |
| Material Score | | 7 / Medium | |

## 20 > -1 > 001 - DUCT > LOCATION NOTES

| | | | |
|---|---|---|---|
| Building | 20 | Level | -1 |
| Location | 001 - Duct | Item | |
|  | |  | |
| Location Notes | Concrete soffit and brick walls, concrete floor. cables and small pipes to right, Numerous aged pipe hangers, numerous pipes of more modern appearance some. Walls encapsulated and evidence of previous asbestos abatement. | | |
| General Comments | Live ventilation blower within area | | |

## 20 > -1 > 001 - DUCT > WALLS

| | | | |
|---|---|---|---|
| **Building** | 20 | **Level** | -1 |
| **Location** | 001 - Duct | **Item** | Walls |
| **Material** | Insulation | **Extent** | 200 m2 |



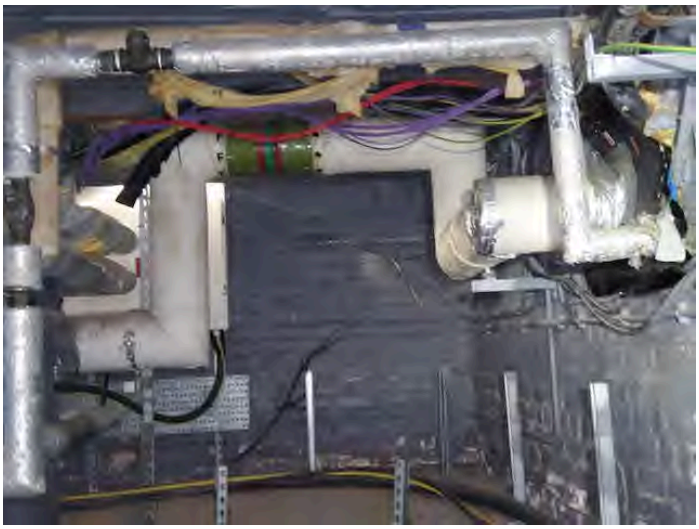


| | | | |
|---|---|---|---|
| **Strategy / Sample Id** | Strongly Presume | **Presumed Fibre Type** | Amosite |
| **Recommendation** | Encapsulate | | |
| **General Comments** | Encapsulation slightly failing where ground water and penetrated | | |

Material Assessment

| | | | |
|---|---|---|---|
| Product Type (or Debris from Product) | 3 | Extent of Damage / Deterioration | 1 |
| Surface Type / Treatment | 2 | Asbestos Type | 2 |
| Material Score | | 8 / Medium | |

## 21 > -1 > 009 DUCT > PIPEWORK

| | | | |
|---|---|---|---|
| **Building** | 21 | **Level** | -1 |
| **Location** | 009 Duct | **Item** | Pipework |
| **Material** | Insulation | **Extent** | 50 m lin |
|  | |  | |
| **Strategy / Sample Id** | Sample / 050 | **Fibre Type** | NADIS |
| **General Comments** | Modern insulation | | |

## 21 > -1 > 009 DUCT > WALLS

| | | | |
|---|---|---|---|
| **Building** | 21 | **Level** | -1 |
| **Location** | 009 Duct | **Item** | Walls |
| **Material** | Bituminous Felt | **Extent** | 300 m lin |
|  | |  | |
| **Strategy / Sample Id** | Sample / 051 | **Fibre Type** | NADIS |

## 21 > -1 > 009 DUCT > FLOOR

| | | | |
|---|---|---|---|
| **Building** | 21 | **Level** | -1 |
| **Location** | 009 Duct | **Item** | Floor |
| **Material** | Insulation | **Extent** | 40 m2 |
|  | |  | |
| **Strategy / Sample Id** | Sample / 052 | **Fibre Type** | NADIS |
| **General Comments** | Generic dust debris sweep, lack of generic dust suggests near term clean | | |

## 21 > -1 > 009 DUCT > DEBRIS TO FLOOR/ VENT STACK

| | | | |
|---|---|---|---|
| **Building** | 21 | **Level** | -1 |
| **Location** | 009 Duct | **Item** | Debris to floor/ vent stack |
| **Material** | Insulation | **Extent** | 2 m2 |
|  | |  | |
| **Strategy / Sample Id** | Sample / 053 | **Fibre Type** | NADIS |
| **General Comments** | Generic dust debris sweep | | |

## 21 > -1 > 009 DUCT > PIPE

| | | | |
|---|---|---|---|
| **Building** | 21 | **Level** | -1 |
| **Location** | 009 Duct | **Item** | Pipe |
| **Material** | Insulation | **Extent** | 2 m lin |
|  | |  | |
| **Strategy / Sample Id** | Sample / 054 | **Fibre Type** | NADIS |

## 21 > -1 > 009 DUCT > FLOOR

| | | | |
|---|---|---|---|
| **Building** | 21 | **Level** | -1 |
| **Location** | 009 Duct | **Item** | Floor |
| **Material** | Insulation | **Extent** | 40 m2 |
|  | |  | |
| **Strategy / Sample Id** | Sample / 055 | **Fibre Type** | NADIS |
| **General Comments** | Generic dust debris sweep, lack of generic dust suggests near term clean | | |

## 21 > -1 > 009 DUCT > DEBRIS ON CABLE

| | | | |
|---|---|---|---|
| **Building** | 21 | **Level** | -1 |
| **Location** | 009 Duct | **Item** | Debris on cable |
| **Material** | Insulation | **Extent** | 1 m2 |





| | | | |
|---|---|---|---|
| **Strategy / Sample Id** | Sample / 056 | **Fibre Type** | Chrysotile and Crocidolite |
| **Recommendation** | Prohibit access | | |
| **General Comments** | 20p size piece. Lagged pipe in void above | | |

Material Assessment

| | | | |
|---|---|---|---|
| Product Type (or Debris from Product) | 3 | Extent of Damage / Deterioration | 3 |
| Surface Type / Treatment | 3 | Asbestos Type | 3 |
| Material Score | | 12 / High | |

## 21 > -1 > 009 DUCT > PIPE

| | | | |
|---|---|---|---|
| **Building** | 21 | **Level** | -1 |
| **Location** | 009 Duct | **Item** | Pipe |
| **Material** | Insulation | **Extent** | Unknown |





| | | | |
|---|---|---|---|
| **Access / Notes** | Limited Access / Contaminated area | | |
| **Strategy / Sample Id** | Strongly Presume / 056 | **Presumed Fibre Type** | Chrysotile and Crocidolite |
| **Recommendation** | Encapsulate | | |
| **General Comments** | Poor condition lagged pipe in void, debris throughout, gross contamination | | |

Material Assessment

| | | | |
|---|---|---|---|
| Product Type (or Debris from Product) | 3 | Extent of Damage / Deterioration | 3 |
| Surface Type / Treatment | 3 | Asbestos Type | 3 |
| Material Score | | 12 / High | |

## 21 > -1 > 009 DUCT > DEBRIS ON CABLE

| | | | |
|---|---|---|---|
| **Building** | 21 | **Level** | -1 |
| **Location** | 009 Duct | **Item** | Debris on cable |
| **Material** | Insulation | **Extent** | 1 m2 |
|  | |  | |
| **Strategy / Sample Id** | Sample / 057 | **Fibre Type** | Amosite, Chrysotile and Crocidolite |
| **Recommendation** | Prohibit access | | |
| **General Comments** | To end of lagged pipe in void | | |

Material Assessment

| | | | |
|---|---|---|---|
| Product Type (or Debris from Product) | 3 | Extent of Damage / Deterioration | 3 |
| Surface Type / Treatment | 3 | Asbestos Type | 3 |
| Material Score | | 12 / High | |

## 21 > -1 > 009 DUCT > FLOOR

| | | | |
|---|---|---|---|
| **Building** | 21 | **Level** | -1 |
| **Location** | 009 Duct | **Item** | Floor |
| **Material** | Insulation | **Extent** | 4 m2 |
|  | |  | |
| **Strategy / Sample Id** | Sample / 058 | **Fibre Type** | Chrysotile |
| **Recommendation** | Prohibit access | | |
| **General Comments** | Generic dust debris sweep, contaminated area above | | |

Material Assessment

| | | | |
|---|---|---|---|
| Product Type (or Debris from Product) | 3 | Extent of Damage / Deterioration | 3 |
| Surface Type / Treatment | 3 | Asbestos Type | 1 |
| Material Score | | 10 / High | |

## 21 > -1 > 009 DUCT > FLOOR UNDERCROFTS

| | | | |
|---|---|---|---|
| **Building** | 21 | **Level** | -1 |
| **Location** | 009 Duct | **Item** | Floor undercrofts |
| **Material** | Insulation | **Extent** | Unknown |
|  | |  | |
| **Strategy / Sample Id** | Strongly Presume | **Presumed Fibre Type** | Amosite |
| **Recommendation** | Further investigation required | | |
| **General Comments** | Assumed outside scope of this survey | | |

Material Assessment

| | | | |
|---|---|---|---|
| Product Type (or Debris from Product) | 3 | Extent of Damage / Deterioration | 2 |
| Surface Type / Treatment | 2 | Asbestos Type | 2 |
| Material Score | | 9 / Medium | |

## 21 > -1 > 009 DUCT > LOCATION NOTES

| | | | |
|---|---|---|---|
| Building | 21 | Level | -1 |
| Location | 009 Duct | Item | |
|  | | | |
| Location Notes | Concrete soffit and floor brick walls, cables and small pipes to left, larger bore pipes insulated in mmmf to left hand wall. Numerous aged pipe hangers, some pipes appear to be newer. Two large bore pipes are active steam mains, replace sections intermittently. Walls heavily encapsulated and evidence of previous asbestos abatement. | | |

## 30 > -1 > 008 - DUCT > DEBRIS TO FLOOR

| | | | |
|---|---|---|---|
| **Building** | 30 | **Level** | -1 |
| **Location** | 008 - Duct | **Item** | Debris to floor |
| **Material** | Thermal Insulation | **Extent** | 20 m2 |
|  | |  | |
| **Strategy / Sample Id** | Sample / 006 | **Fibre Type** | NADIS |
| **General Comments** | Composite floor debris sample in absence of visible asbestos acccumulations | | |

## 30 > -1 > 008 - DUCT > DEBRIS TO PIPE BRACKET

| | | | |
|---|---|---|---|
| **Building** | 30 | **Level** | -1 |
| **Location** | 008 - Duct | **Item** | Debris to pipe bracket |
| **Material** | Thermal Insulation | **Extent** | 1 m2 |
|  | |  | |
| **Strategy / Sample Id** | Sample / 007 | **Fibre Type** | NADIS |

## 30 > -1 > 008 - DUCT > DEBRIS TO UNISTRUT HANGER

| | | | |
|---|---|---|---|
| **Building** | 30 | **Level** | -1 |
| **Location** | 008 - Duct | **Item** | Debris to unistrut hanger |
| **Material** | Thermal Insulation | **Extent** | 1 m2 |
|  | |  | |
| **Strategy / Sample Id** | Strongly Presume / 008 | **Presumed Fibre Type** | NADIS |

## 30 > -1 > 008 - DUCT > DEBRIS TO PIPE BRACKET

| | | | |
|---|---|---|---|
| **Building** | 30 | **Level** | -1 |
| **Location** | 008 - Duct | **Item** | Debris to pipe bracket |
| **Material** | Thermal Insulation | **Extent** | 1 m2 |
|  | |  | |
| **Strategy / Sample Id** | Sample / 009 | **Fibre Type** | NADIS |

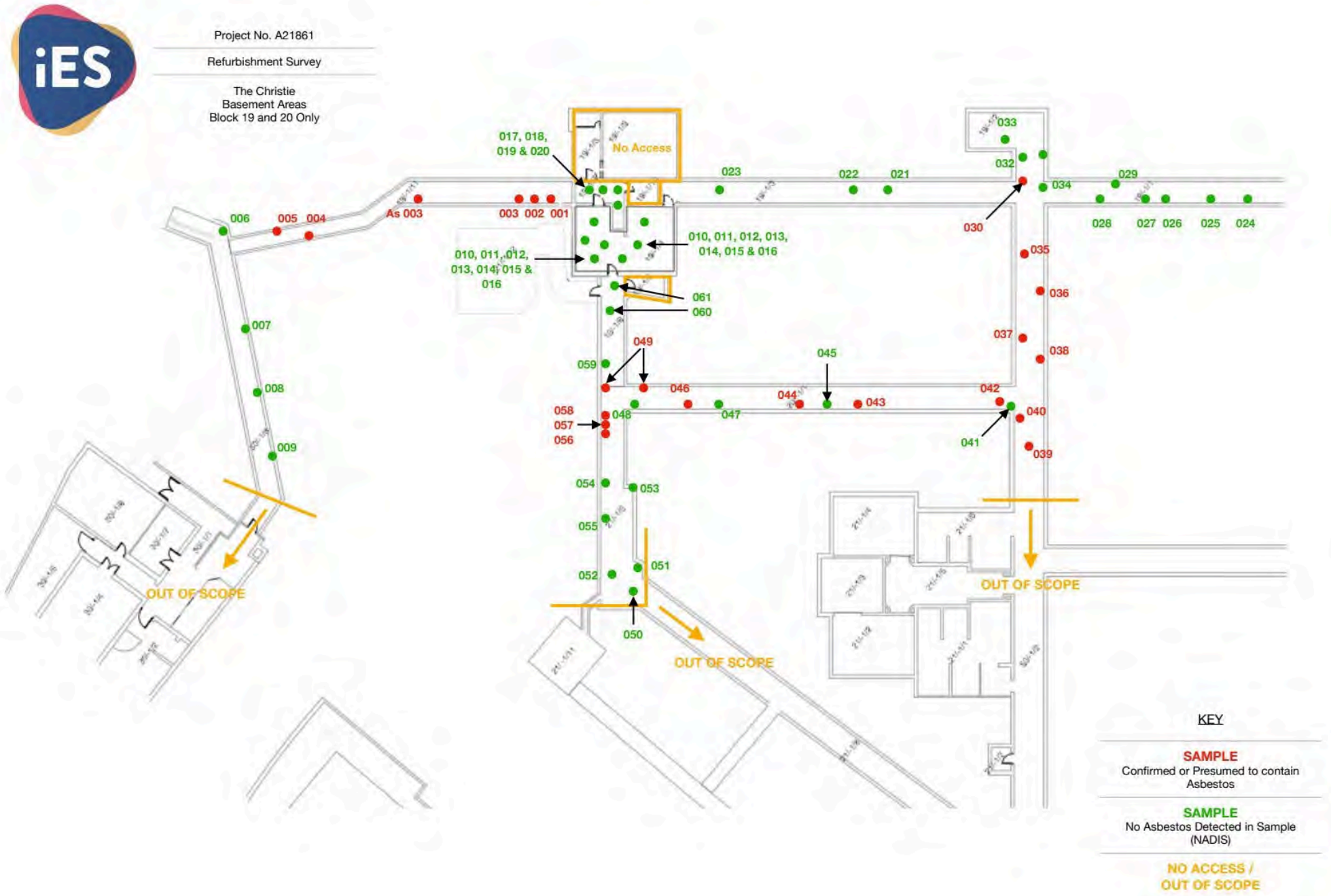
## 30 > -1 > 008 - DUCT > LOCATION NOTES

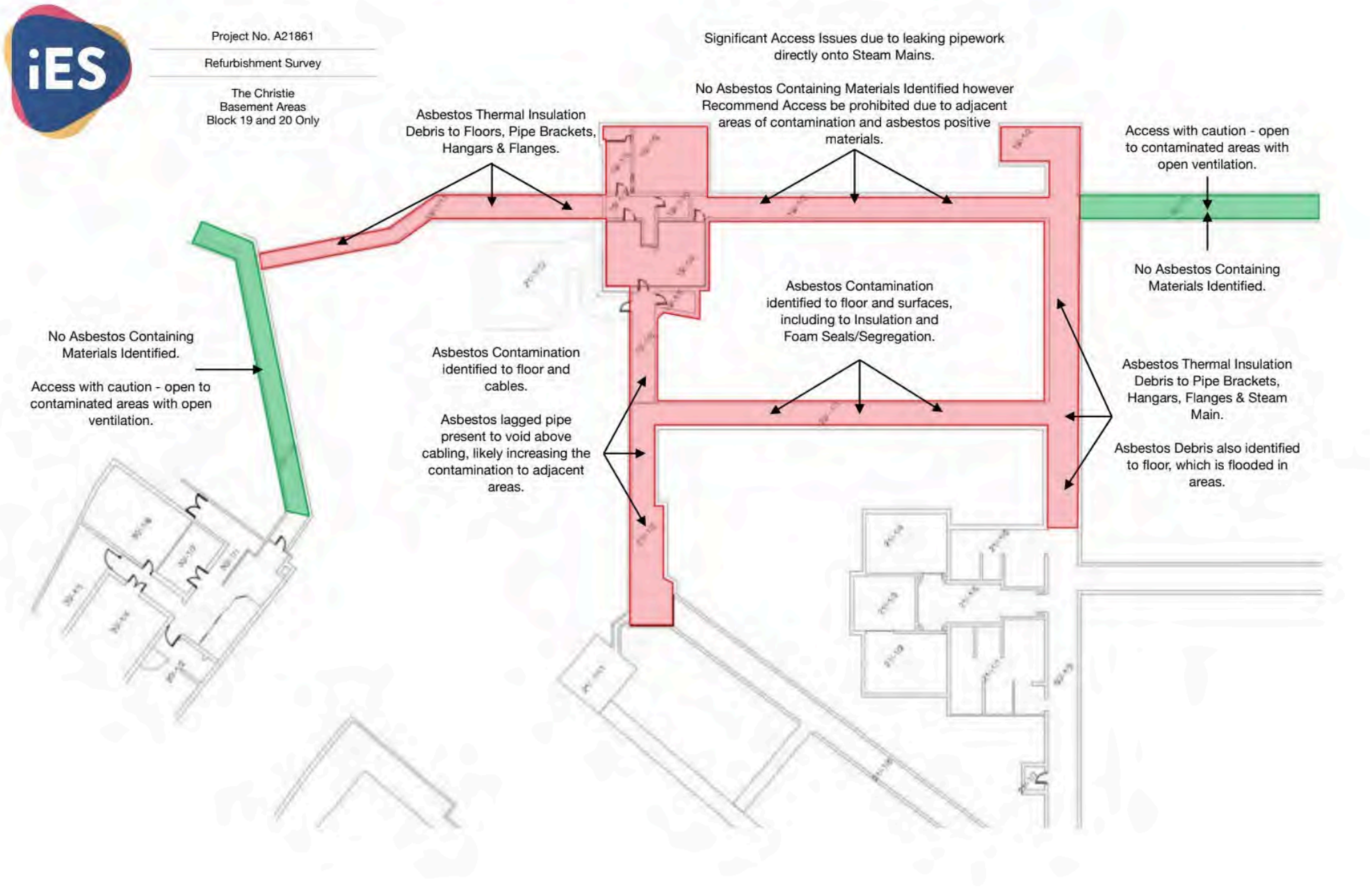
| | | | |
|---|---|---|---|
| Building | 30 | Level | -1 |
| Location | 008 - Duct | Item | |
|  | | | |
| Location Notes | Concrete soffit and floor brick walls, cables and small pipes to left, larger bore pipes insulated in mmmf to right hand wall. Numerous aged pipe hangers, some pipes appear to be newer. Two large bore pipes are active steam mains | | |
| Access / Notes | Limited Access / Around live cables and steam mains, for safety reasons. | | |

# APPENDICES

## FLOORPLANS

*See following pages...*


Project No. A21861
Refurbishment Survey
The Christie
Basement Areas
Block 19 and 20 Only
No Access
017, 018, 019 & 020
010, 011, 012, 013, 014, 015 & 016
010, 011, 012, 013, 014, 015 & 016
As 003
003 002 001
006 005 004
007
008
009
023
022 021
033
032
034
029
028 027 026 025 024
030
035
036
037
038
039
040
041
042
043
044
045
046
047
048
049
059
058
057
056
054
053
055
051
052
050
061
060
OUT OF SCOPE
OUT OF SCOPE
OUT OF SCOPE
KEY
SAMPLE
Confirmed or Presumed to contain Asbestos
SAMPLE
No Asbestos Detected in Sample (NADIS)
NO ACCESS / OUT OF SCOPE


Project No. A21861
Refurbishment Survey
The Christie
Basement Areas
Block 19 and 20 Only
Significant Access Issues due to leaking pipework directly onto Steam Mains.
No Asbestos Containing Materials Identified however Recommend Access be prohibited due to adjacent areas of contamination and asbestos positive materials.
Asbestos Thermal Insulation Debris to Floors, Pipe Brackets, Hangars & Flanges.
Access with caution - open to contaminated areas with open ventilation.
No Asbestos Containing Materials Identified.
Asbestos Contamination identified to floor and surfaces, including to Insulation and Foam Seals/Segregation.
No Asbestos Containing Materials Identified.
Access with caution - open to contaminated areas with open ventilation.
Asbestos Contamination identified to floor and cables.
Asbestos lagged pipe present to void above cabling, likely increasing the contamination to adjacent areas.
Asbestos Thermal Insulation Debris to Pipe Brackets, Hangars, Flanges & Steam Main.
Asbestos Debris also identified to floor, which is flooded in areas.

# BULK SAMPLE TEST CERTIFICATES

*See following pages...*

# Certificate of Sample Analysis Results

| Sample Reference | Floor | Room | Item Name | Product/debris Type | Asbestos Type | Comment | Analyst Name |
|---|---|---|---|---|---|---|---|
| S001 | Block 19, -1/11 | Block 19, -1/11 | Thermal Insulation debris | Insulation Product | Amosite | | Katarzyna Bera |
| S002 | Block 19, -1/1 | Block 19, -1/1 | Thermal Insulation debris | Insulation Product | Amosite | | Katarzyna Bera |
| S003 | Block 19, -1/11 | Block 19, -1/11 | Thermal Insulation debris | Insulation Product | Amosite | | Katarzyna Bera |
| S004 | Block 19, -1/11 | Block 19, -1/11 | Rope | Woven | Chrysotile | | Katarzyna Bera |
| S005 | Block 19, -1/11 | Block 19, -1/11 | Floor debris | Debris | Amosite | | Katarzyna Bera |
| S006 | 30/-1/8 | 30/-1/8 | Debris | Debris | No Asbestos Detected | | Katarzyna Bera |
| S007 | 30/-1/8 | 30/-1/8 | Thermal Insulation debris | Insulation Product | No Asbestos Detected | | Katarzyna Bera |
| S008 | 30/-1/8 | 30/-1/8 | Thermal Insulation debris | Insulation Product | No Asbestos Detected | | Katarzyna Bera |
| S009 | 30/-1/8 | 30/-1/8 | Thermal Insulation debris | Insulation Product | No Asbestos Detected | | Katarzyna Bera |
| S010 | Block 19/-1/04 | Block 19/-1/04 | Thermal Insulation | Insulation Product | No Asbestos Detected | | Katarzyna Bera |
| S011 | Block 19/-1/04 | Block 19/-1/04 | Debris | Insulation Product | No Asbestos Detected | | Katarzyna Bera |
| S012 | Block 19/-1/04 | Block 19/-1/04 | Dust | Insulation Product | No Asbestos Detected | | Katarzyna Bera |
| S013 | Block 19/-1/04 | Block 19/-1/04 | Debris | Insulation Product | No Asbestos Detected | | Katarzyna Bera |
| S014 | Block 19/-1/04 | Block 19/-1/04 | Dust | Insulation Product | No Asbestos Detected | | Katarzyna Bera |
| S015 | Block 19/-1/04 | Block 19/-1/04 | Debris | Insulation Product | No Asbestos Detected | | Katarzyna Bera |
| S016 | Block 19/-1/04 | Block 19/-1/04 | Vinyl | Vinyl | No Asbestos Detected | | Katarzyna Bera |
| S017 | Block 19/-1/07 | Block 19/-1/07 | Thermal Insulation | Insulation Product | No Asbestos Detected | | Katarzyna Bera |
| S018 | Block 19/-1/07 | Block 19/-1/07 | Debris | Insulation Product | No Asbestos Detected | | Katarzyna Bera |
| S019 | Block 19/-1/17 | Block 19/-1/17 | Debris | Insulation Product | No Asbestos Detected | | Katarzyna Bera |
| S020 | Block 19/-1/07 | Block 19/-1/07 | Debris | Insulation Product | No Asbestos Detected | | Katarzyna Bera |

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Where samples are taken by OHA, sampling is carried out in accordance with our documented in-house methods, HSG 248 and HSG 264 and is covered by our OHA accreditation. **Where the sample is not taken by OHA, cannot be responsible for inaccurate or unrepresentative sampling.

Opinions lie outside the scope of our UKAS accreditation. *When samples are provided for analysis by the client and described as Cement, this is based on the opinions of the analyst completing the analysis. This opinion is not covered by our UKAS accreditation. ** When samples have been provided by a third party, OHS cannot validate the sample source or method on which the sample was taken including sample strategy or size submitted for analysis.

Results are reported on sample as seen and received only.

atac

Analyst Name
Katarzyna Bera
21/08/2023

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21/08/2023 09:26 – UID999 SC[000] –
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# Certificate of Sample Analysis Results

| Sample Reference | Floor | Room | Item Name | Product/debris Type | Asbestos Type | Comment | Analyst Name |
|---|---|---|---|---|---|---|---|
| S21 | 19/-1/3 | 19/-1/3 | Thermal Insulation Bracket | Insulation Product | No Asbestos Detected | | Katarzyna Bera |
| S22 | 19/-1/3 | 19/-1/3 | Thermal Insulation Pipe | Insulation Product | No Asbestos Detected | | Katarzyna Bera |
| S23 | 19/-1/3 | 19/-1/3 | Thermal Insulation Walls | Insulation Product | No Asbestos Detected | | Katarzyna Bera |
| S24 | 19/-1/1 | 19/-1/1 | Thermal Insulation Walls | Insulation Product | No Asbestos Detected | | Katarzyna Bera |
| S25 | 19/-1/1 | 19/-1/1 | Thermal Insulation Walls | Insulation Product | No Asbestos Detected | | Katarzyna Bera |
| S26 | 19/-1/1 | 19/-1/1 | Floor Debris | Insulation Debris | No Asbestos Detected | | Katarzyna Bera |
| S27 | 19/-1/1 | 19/-1/1 | Thermal Insulation Pipe Hanger | Insulation Product | No Asbestos Detected | | Katarzyna Bera |
| S28 | 19/-1/1 | 19/-1/1 | Thermal Insulation Pipe Bracket | Insulation Product | No Asbestos Detected | | Katarzyna Bera |
| S29 | 19/-1/1 | 19/-1/1 | Thermal Insulation Pipe Penetration | Insulation Product | No Asbestos Detected | | Katarzyna Bera |
| S30 | 19/-1/2 | 19/-1/2 | Thermal Insulation Walls | Insulation Product | Amosite | | Katarzyna Bera |
| S31 | 19/-1/2 | 19/-1/2 | Thermal Insulation Walls | Insulation Product | No Asbestos Detected | | Katarzyna Bera |
| S32 | 19/-1/2 | 19/-1/2 | Thermal Insulation Walls | Insulation Product | No Asbestos Detected | | Katarzyna Bera |
| S33 | 19/-1/2 | 19/-1/2 | Thermal Insulation Pipe Bracket | Insulation Product | No Asbestos Detected | | Katarzyna Bera |
| S34 | 19/-1/2 | 19/-1/2 | Thermal Insulation Pipe Hanger | Insulation Product | No Asbestos Detected | | Katarzyna Bera |
| S35 | 19/-1/2 | 19/-1/2 | Thermal Insulation Steam Main | Insulation Product | Amosite and Chrysotile | | Katarzyna Bera |
| S36 | 19/-1/2 | 19/-1/2 | Thermal Insulation Pipe Hanger | Insulation Product | Amosite | | Katarzyna Bera |
| S37 | 19/-1/2 | 19/-1/2 | Thermal Insulation Steam Main | Insulation Product | Amosite | | Katarzyna Bera |
| S38 | 19/-1/2 | 19/-1/2 | Thermal Insulation Pipe Bracket | Insulation Product | Amosite | | Katarzyna Bera |
| S39 | 19/-1/2 | 19/-1/2 | Thermal Insulation Pipe Bracket | Insulation Product | Amosite | | Katarzyna Bera |
| S40 | 19/-1/2 | 19/-1/2 | Debris | Debris | Chrysotile | | Katarzyna Bera |
| S41 | 20/-1/1 | 20/-1/1 | TT Pipes | Insulation Product | No Asbestos Detected | | Katarzyna Bera |

Analyst Name
Katarzyna Bera
25/08/2023

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25/08/2023 15:22 – UID999 SC[000] –
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| Sample Reference | Floor | Room | Item Name | Product/debris Type | Asbestos Type | Comment | Analyst Name |
|---|---|---|---|---|---|---|---|
| S42 | 20/-1/1 | 20/-1/1 | Debris Floor | Debris | Crocidolite and Chrysotile | | Katarzyna Bera |
| S43 | 20/-1/1 | 20/-1/1 | Debris Brackets | Insulation Debris | Amosite and Chrysotile | | Katarzyna Bera |
| S44 | 20/-1/1 | 20/-1/1 | Thermal Insulation Pipes | Insulation Product | Amosite | | Katarzyna Bera |
| S45 | 20/-1/1 | 20/-1/1 | Debris Floor | Debris | No Asbestos Detected | | Katarzyna Bera |
| S46 | 20/-1/1 | 20/-1/1 | Debris Floor | Debris | Chrysotile | | Katarzyna Bera |
| S47 | 20/-1/1 | 20/-1/1 | Thermal Insulation Walls | Insulation Product | No Asbestos Detected | | Katarzyna Bera |
| S48 | 20/-1/1 | 20/-1/1 | Thermal Insulation Pipe Hanger | Insulation Product | No Asbestos Detected | | Katarzyna Bera |
| S49 | 20/-1/1 | 20/-1/1 | Debris Floor | Debris | Amosite | | Katarzyna Bera |
| S50 | 21/-1/9 | 21/-1/9 | Insulation | Insulation Product | No Asbestos Detected | | Katarzyna Bera |
| S51 | 21/-1/9 | 21/-1/9 | Bitumen Damp proof course | Bituminous | No Asbestos Detected | | Katarzyna Bera |
| S52 | 21/-1/9 | 21/-1/9 | Debris Floor | Debris | No Asbestos Detected | | Katarzyna Bera |
| S53 | 21/-1/9 | 21/-1/9 | Debris Vent | Insulation Debris | No Asbestos Detected | | Katarzyna Bera |
| S54 | 21/-1/9 | 21/-1/9 | Thermal Insulation Pipe | Insulation Product | No Asbestos Detected | | Katarzyna Bera |
| S55 | 21/-1/9 | 21/-1/9 | Debris Floor | Debris | No Asbestos Detected | | Katarzyna Bera |
| S56 | 21/-1/9 | 21/-1/9 | Thermal Insulation Debris | Insulation Debris | Crocidolite and Chrysotile | | Katarzyna Bera |
| S57 | 21/-1/9 | 21/-1/9 | Thermal Insulation | Insulation Product | Crocidolite and Amosite and Chrysotile | | Katarzyna Bera |
| S58 | 21/-1/9 | 21/-1/9 | Thermal Insulation | Insulation Product | Chrysotile | | Katarzyna Bera |
| S59 | 19/-1/6 | 19/-1/6 | Floor Debris | Debris | No Asbestos Detected | | Katarzyna Bera |
| S60 | 19/-1/6 | 19/-1/6 | Floor Debris | Debris | No Asbestos Detected | | Katarzyna Bera |
| S61 | 19/-1/6 | 19/-1/6 | Floor Debris | Debris | No Asbestos Detected | | Katarzyna Bera |

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Results are reported on sample as seen and received only.

atac

Analyst Name
Katarzyna Bera
25/08/2023

# Certificate of Sample Analysis Results

| Sample Reference | Floor | Room | Item Name | Product/debris Type | Asbestos Type | Comment | Analyst Name |
|---|---|---|---|---|---|---|---|
| S062 | 19/-1/4 | 19/-1/4 | Debris | Insulation debris | No Asbestos Detected | | Thi Hegarty |
| S063 | 19/-1/4 | 19/-1/4 | Debris | Insulation debris | No Asbestos Detected | | Thi Hegarty |

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Results are reported on sample as seen and received only.

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30/08/2023 12:51 – UID893 SC[000] –
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# TYPES OF ASBESTOS SURVEY

HSG 264 (Asbestos: The Survey Guide) describes two types of survey:

## Management Surveys

A management survey is the standard survey. Its purpose is to locate, as far as reasonably practicable, the presence and extent of any suspect ACMs in the building which could be damaged or disturbed during normal occupancy, including foreseeable maintenance and installation, and to assess their condition. Management surveys can involve a combination of sampling to confirm asbestos is present or presuming asbestos to be present.

## Refurbishment and Demolition Surveys

A refurbishment and demolition survey is needed before any refurbishment or demolition work is carried out. This type of survey is used to locate and describe, as far as reasonably practicable, all ACMs in the area where the refurbishment work will take place or in the whole building if demolition is planned. The survey will be fully intrusive and involve destructive inspection, as necessary, to gain access to all areas, including those that may be difficult to reach. A refurbishment and demolition survey may also be required in other circumstances, eg when more intrusive maintenance and repair work will be carried out or for plant removal or dismantling.

## MATERIAL ASSESSMENT SCORES

Where ACMs have been identified or presumed, a material score is calculated in accordance with HSG 264 (Asbestos: The Survey Guide). The value assigned to each of the four sample variables is added together to give a total material score between 2 and 12.

| Sample Variable | Score | Examples of Score |
|---|---|---|
| Product Type (or Debris from Product) | 1 | Asbestos reinforced composites (plastics, resins, mastics, roofing felts, vinyl floor tiles, semi-rigid paints or decorative finishes, asbestos cement etc) |
| | 2 | Asbestos insulating board, mill boards, other low density insulation boards, asbestos textiles, gaskets, ropes and woven textiles, asbestos paper and felt |
| | 3 | Thermal insulation (eg pipe and boiler lagging), sprayed asbestos, loose asbestos, asbestos mattresses and packing |
| Extent of Damage / Deterioration | 0 | Good condition: no visible damage |
| | 1 | Low damage: a few scratches or surface marks; broken edges on board, tiles etc. |
| | 2 | Medium damage: significant breakage of materials or several small areas where material has been damaged revealing loose asbestos fibres |
| | 3 | High damage or delamination of materials, sprays and thermal insulation. Visible asbestos debris. |
| Surface Treatment | 0 | Composite materials containing asbestos: reinforced plastics, resins, vinyl tiles |
| | 1 | Enclosed sprays and lagging, asbestos insulating board (with exposed face painted or encapsulated), asbestos cement sheets etc. |
| | 2 | Unsealed asbestos insulating board, or encapsulated lagging and sprays |
| | 3 | Unsealed laggings and sprays |
| Asbestos Type | 1 | Chrysotile |
| | 2 | Amphibole asbestos excluding crocidolite |
| | 3 | Crocidolite |

The material score determines the potential for a material to release asbestos fibres when disturbed. This score is then categorised to describe the potential:

| Material Score | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | Very Low | | | Low | | Medium | | | High | | |

## ASBESTOS MATERIALS

Asbestos is a naturally occurring mineral composed of soft and flexible fibers that are resistant to heat, electricity and corrosion. These qualities make the mineral useful, but they also make asbestos exposure highly toxic.

Asbestos is a group of six naturally occurring fibrous minerals composed of thin, needle-like fibers. Exposure to asbestos causes several cancers and diseases, including mesothelioma and asbestosis.

### Asbestos Morphology

| Mineral Group | Fibre Type | Common Name |
|---|---|---|
| Serpentine | Chrysotile | White |
| Amphibole | Amosite | Brown |
| | Crocidolite | Blue |
| | Anthophyllite | n/a |
| | Tremolite | n/a |
| | Actinolite | n/a |

***Note:*** *Anthophyllite was used in limited quantities for insulation products and construction materials. It also occurs as a contaminant in chrysotile asbestos, vermiculite and talc. Tremolite and actinolite are not used commercially, but they can be found as contaminants in chrysotile asbestos, vermiculite and talc.*