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# Desktop study of Hazardous Materials Surveys to WHS Regulations 2011

## Health Infrastructure

### Lismore Base Hospital (Targeted Buildings), Lismore NSW



Health  
Infrastructure

July 2012

Our Ref: C107305: J111111

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J111111 Lismore Base Hospital - Building Fabric Desktop Study of Hazardous Materials - July 2012

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## Document Control

| Date                       | Version    | Author    | Reviewed  | Authorised |
|----------------------------|------------|-----------|-----------|------------|
| 29 <sup>th</sup> June 2012 | Revision 1 | H. Pearce | A. Holmes | N. Johnson |
| 10 <sup>th</sup> July 2012 | Revision 2 | H. Pearce | A. Holmes | A. Holmes  |

# Desktop study of Hazardous Materials Surveys to WHS Regulations 2011

## Health Infrastructure

### Lismore Base Hospital (Targeted Buildings), Lismore NSW

#### Executive Summary

##### Purpose

This building fabric desktop study presents the findings of the Hazardous Materials Surveys conducted of Lismore Base Hospital (Targeted Buildings), Lismore NSW and the areas where insufficient information is available in order for Health Infrastructure to proceed with the planned major refurbishment/demolition works at the site. The Work Health & Safety (WHS) Regulations 2011, The Code of practice: *How to Manage & Control Asbestos in the Workplace* (Work Cover, 2011) and the Code of Practice: *How to Safely Remove Asbestos* (Work Cover, 2011) have been used to determine the compliance and further requirements of Health Infrastructure with this project.

Noel Arnold & Associates Pty Ltd (NAA) hold information and reports of investigations conducted between 2004 and 2007, report references are listed in Section 5.1, at the request of Northern NSW Local Health District (LHD), previously known as North Coast Area Health Services.

##### Scope

NAA understand that it is the intention of Health Infrastructure to undertake a major refurbishment/demolition program (the Master Planning process) within selected buildings within the site, noted below, and require assistance from NAA in order to identify areas where the current information held, in relation to hazardous materials is insufficient for the level of works. These buildings include:

- Block A;
- Block B;
- Block C;
- Block H – Mortuary;
- Block J;
- Block N – Crawford House;
- Block P;
- Block T – Pathology; &
- Accident & Emergency (A & E).

The scope of this desktop study is to assist in Health Infrastructure's Master Planning (phase 3) in terms of the following:

- Review all existing documentation,;
- Provide thorough information on the identified and presumed hazardous materials;
- Provide recommendations for future works;
- Provide indicative costs and timescales for removal of known hazardous materials;
- Provide any risk control strategies for the known hazardous materials within the proposed work areas until removal can take place; &
- Provide generic information on hazardous material management and work procedures.

## Summary of Findings

Any requirements highlighted within this report for works previously requested by LHD, such as updating documentation, are not the responsibility of Health Infrastructure but have been noted to assist with any future planned works.

The Asbestos Management Plan, last undertaken in 2007 and requested by LHD, does not appear to have been updated since this date. In December 2011, The WHS Regulations 2011 amended the annual reinspection requirement to 5 yearly. However, for friable asbestos materials, NAA recommend annual re-inspections are undertaken. These regulations also state that As such, it may be applicable for the buildings to be subject re-inspections of these friable materials, as a minimum, in order to fulfil this requirement. Refer to Section 4.1 for details of the relevant documents.

Table 1 below shows an overview of the hazardous materials previously identified or presumed within the nine buildings included within this scope of works. More detail on the materials present, or where information is required, can be found in Section 5 of this report:

Table 1

| Building                    | Asbestos |             | Synthetic Mineral Fibre (SMF) | Polychlorinated Biphenyl (PCB) | Lead-containing Paint |
|-----------------------------|----------|-------------|-------------------------------|--------------------------------|-----------------------|
|                             | Friable  | Non-friable |                               |                                |                       |
| Building A                  | ✓        | ✓           | Unknown                       | Unknown                        | Unknown               |
| Building B                  | ✓        | ✓           | Unknown                       | Unknown                        | Unknown               |
| Building C                  | -        | -           | Unknown                       | Unknown                        | Unknown               |
| Building H - Mortuary       | -        | ✓           | Unknown                       | Unknown                        | Unknown               |
| Building J                  | Unknown  | Unknown     | Unknown                       | Unknown                        | Unknown               |
| Building N – Crawford House | ✓        | ✓           | Unknown                       | Unknown                        | Unknown               |
| Building P                  | -        | ✓           | Unknown                       | Unknown                        | Unknown               |
| Building T - Pathology      | -        | ✓           | Unknown                       | Unknown                        | Unknown               |
| Accident & Emergency        | Unknown  | Unknown     | Unknown                       | Unknown                        | Unknown               |

We have noted that it is unknown whether SMF, PCB's and lead-containing paint is present in the above buildings as specifics were not noted in the report, undertaken in 2004 (see Section 4.1, report reference SN0042:47909). As such, we cannot comment on the individual locations of these materials

### Asbestos-Containing Materials (ACMs)

An asbestos survey was undertaken in Lismore Base Hospital in September 2006 (report ref: SN0042: 47909), requested by LHD, was a non-destructive survey, to compliance level only, while the site was occupied and so was limited in access and sampling techniques. Following this survey, an Asbestos Management Plan (AMP) was compiled in February 2007 (report ref: SN0042:54878) but NAA have no records to show that this has been updated since. Refer to Section 4.1 for details of the relevant documents.

There is also no evidence held by NAA that the asbestos friable debris within Block N (Crawford House), which was given a Priority Risk 2 (P2), has been removed, as was recommended within this above noted document. Further details of this material and other known hazardous materials which require attention, within the specified buildings included within this report, can be found in Section 9.

### Synthetic Mineral Fibres

There is no specific data which provides evidence of SMF being present within the nominated buildings. However, from the age and our knowledge of the site, it is presumed that this material may be present until proven otherwise.

### Polychlorinated Biphenyl's (PCBs)

There is no specific data which provides evidence of PCB's being present within the nominated buildings. However, from the age and our knowledge of the site, it is presumed that this material may be present until proven otherwise.

### Lead-containing Paint

There is no specific data which provides evidence of lead-containing paint, or other lead-based materials such as flashing, being present within the nominated buildings. However, from the age and our knowledge of the site, it is presumed that this material may be present until proven otherwise.

### Recommendations

Further intrusive hazardous materials investigative works are required, as per AS2601 and the WHS Regulations 2011, part 8.6, to assess the presence of the above four noted hazardous materials within all nine buildings included within the Master Plan of this project. All investigations should be undertaken prior to any refurbishment or demolition works commence.

Further details can be found in Section 6 and 10.

Note: The current Asbestos Register and AMP is required to be reviewed as per the Code of Practice: How to Manage & Control Asbestos in the Workplace (WorkCover 2011), which requires a minimum of 5-yearly review of known and presumed ACMs, or sooner if the material is damaged, removed or encapsulated. As this was requested by LHD, and as the current responsible duty holder of the site, this may be addressed by them and Health Infrastructure do not currently have responsibility for this aspect.

In the interim prior to the major redevelopment works commencing, the AMP should be updated to provide current information on the condition of the known and presumed ACMs. As no data has been updated since 2007, there may be some considerable change in the condition of materials within the nominated buildings, some of which may require attention. This will bring Lismore Base Hospital, for the sites included within this report, up to a compliant level. Again, LHD may be responsible for updating this document.

# Desktop study of Hazardous Materials Surveys to WHS Regulations 2011

## Health Infrastructure

### Lismore Base Hospital (Targeted Buildings), Lismore NSW

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## Statement of Limitations

This report has been prepared in accordance with the agreement between Health Infrastructure (Aurora Projects Pty Ltd) and Noel Arnold & Associates Pty Ltd.

Within the limitations of the agreed upon scope of services, this assessment has been undertaken and performed in a professional manner, in accordance with generally accepted practices, using a degree of skill and care ordinarily exercised by members of its profession and consulting practice. No other warranty, expressed or implied, is made.

This report is solely for the use of Health Infrastructure and Aurora Projects Pty Ltd and any reliance of this report by third parties shall be at such party's sole risk and may not contain sufficient information for purposes of other parties or for other uses. This report shall only be presented in full and may not be used to support any other objective than those set out in the report, except where written approval with comments are provided by Noel Arnold & Associates Pty Ltd.

This report was prepared for Health Infrastructure (Aurora Projects Pty Ltd) solely for the purpose set out herein and it is not intended that any other person use or rely on it. Whilst this report is accurate to the best of our knowledge and belief Noel Arnold & Associates Pty Ltd cannot guarantee completeness or accuracy of any descriptions or conclusions based on information supplied to it. Responsibility is disclaimed for any loss or damage, including but not limited to, any loss or damage suffered by Health Infrastructure (Aurora Projects Pty Ltd) arising from the use of this report or suffered by any other person for any reason whatsoever.

This report relates only to the identification of hazardous materials used in the construction of the building and does not include the identification of dangerous goods or hazardous substances in the form of chemicals used, stored or manufactured with the building or plant.

The following should also be noted:

The surveys undertaken in June 2006 were non-destructive in nature and while the survey attempted to locate the asbestos-containing materials within the site the review was a visual inspection and a limited sampling program only. Representative samples of suspect hazardous materials were collected for analysis. Other hazardous materials of similar appearance may have been assumed to have a similar content.

Only minor destructive auditing and sampling techniques were employed to gain access and consequently, without substantial demolition of the building, it was not possible to guarantee that every source of hazardous material has been detected. This report shows these shortfalls in access and restrictions.

This report is not intended to be used for the purposes of tendering, programming of works, refurbishment works or demolition works unless used in conjunction with a specification detailing the extent of the works. To ensure its contextual integrity, the report must be read in its entirety and should not be copied, distributed or referred to in part only.

This building fabric desktop study report presents the findings following the review of various surveys, investigations and management plans, undertaken by NAA, of Lismore Base Hospital (Targeted Buildings), Lismore NSW. The aim of this report is to provide information of the known or presumed hazardous materials (documented within NAA-conducted investigations only) within the nine buildings included within Health Infrastructure's Master Plan prior to the planned refurbishment and demolition.

This desktop study has been requested by Gavin Thompson, Project Manager at Aurora Projects Pty Ltd, on behalf of Health Infrastructure.

- Block A;
- Block B;
- Block C;
- Block H – Mortuary;
- Block J;
- Block N – Crawford House;
- Block P;
- Block T – Pathology; &
- Accident & Emergency (A & E).

- Review all existing documentation, held by both Health Infrastructure and NAA, to assess the current known presence of hazardous materials within the nine buildings listed below;
- Provide detailed information on the identified and presumed hazardous materials, with the type of material, location, extent and last known condition, along with a risk rating. Hazardous materials include:
  - Asbestos-containing materials (ACM);
  - Synthetic Mineral Fibre (SMF);
  - Polychlorinated biphenyls (PCBs); &
  - Lead-containing paint.
- Provide recommendations for future works, in relation to hazardous materials, to allow the proposed major refurbishment/demolition works to proceed;
- Provide indicative costs for removal of known hazardous materials within the proposed work areas;
- Provide any risk control strategies for the known hazardous materials within the proposed work areas until removal can take place;

- Provide an indicative timetable for any proposed further works; &
- Provide generic information on hazardous material management and work procedures.

The surveys noted in Section 4.1, included all accessible parts of the interior & exterior of the buildings and were conducted during normal business hours while the buildings were occupied. All surveys within this section were requested by LHD and any findings related to the upkeep of these documents, such as the AMP, are currently under the responsibility of LHD as duty holder of the site. Health Infrastructure are not required to uphold these recommendations as the master planning does not impact upon this aspect of the findings.

### 3. Legislative Obligations

This desktop study report of the documented hazardous materials (as defined within Section 2) is designed to assist Health Infrastructure with the planned up-coming major refurbishment and demolition works at the site. In this planning stage, Stage 3 of the Master Plan, there are legislative obligations which must be fulfilled in terms of health, safety, the environment and in regards to persons working on or visiting the site during works and prior to commencement. These include the following legislative requirements and guidelines in relation to the hazardous materials to be assessed:

#### 3.1 Work Health and Safety (WHS) Act 2011 (NSW)

Part 2 of the WHS Act states that an employer 'must ensure the health, safety and welfare at work of all the employees'. To meet your responsibilities under the Act, employers Duty of Care must provide:

- Person's dedicated to health and safety. This is now referred to as a 'person conducting a business or undertaking' (PCBU);
- Safe premises;
- Safe machinery, substances;
- Ensure adequate authorisation has been acquired from state bodies and authorities in order for contractors to work on the premises;
- Safe systems of work – As well as the external authorisations, internal systems should be implemented and adhered to;
- Provision of information, instruction, training and supervision – This includes adequate information on any hazardous materials present on site, inherent dangers, etc.; &
- Suitable working environment and facilities.

The Act also states that an employer is responsible for the health and safety of people other than your workers, who may be present at the workplace.

#### 3.2 Work Health and Safety (WHS) Regulation 2011 (NSW)

The Regulation outlines requirements for:

- Chapter 2 - A dedicated person (PCBU) to represent the Principal Contractor or company managing the works, issues related to health and safety and consultation with employees on health and safety matters;
- Chapter 3 - Risk assessment, emergency plans, personal protective equipment, supervision and training provisions. This also includes exposure monitoring of airborne contaminants, such as asbestos, and the requirements for record keeping;
- Chapter 4 – Dictates the requirements in relation to hazardous work. This incorporates noise, manual tasks, hazardous or high risk tasks, such as confined space, electrical work, working at height and hot works, safe working equipment and carcinogenic substances (this includes asbestos, lead, PCBs and SMF). The requirements in relation to a register of employees, letter of termination and health surveillance, where necessary. This chapter also deals with the licensing

requirements and the need for external assessors, such as independent hygienists and auditors.

- Chapter 7 – Denotes the requirements in relation to lead. It informs of the management, identification, removal and risks involved.
- Chapter 8 – Specific to asbestos-containing materials. The responsibilities of the PCBU in relation to asbestos-containing products, management, identification, exposure standards for asbestos, health monitoring, training, removal and licensing.

### 3.3 Code of Practice: How to Manage and Control Asbestos in the Workplace (WorkCover 2011)

- This Code of Practice sets out the steps to be taken and provides advice to safely manage asbestos-containing materials currently installed in domestic and commercial premises, as per the WHS Act, section 274. These steps include identifying ACMs, performing risk assessments and implementing control measures, such as an Asbestos Management Plan (AMP).

### 3.4 Code of Practice: How Safely Remove Asbestos (WorkCover 2011)

- This Code of Practice provides guidance on the safe removal of asbestos and asbestos-containing material from buildings and structures, plant, equipment and vehicles. This Code of Practice should be applied whenever any amount of asbestos or asbestos-containing material (ACM) is to be removed from a workplace, as per the WHS Act, section 274. Following this, and the above Code of Practice, will usually provide full compliance with the WHS Act 2011. The removal of <10m<sup>2</sup> of non-friable (bonded) asbestos being exempt from the licensing requirements).

### 3.5 Australian Standard 4361.2 Guide to Lead Paint Management – Residential and Commercial Buildings

- This 1998-published standard is used throughout Australia and New Zealand and provides guidelines in the identification, management, removal, health, safety and environmental factors, waste disposal and duty holder responsibilities.

### 3.6 Code of Practice for the Safe use of Synthetic Mineral Fibres (1993)

- This provides information on the duties enforced on employers, identification, education and training, safe removal practices, personal protective requirements, health monitoring and waste disposal. It also defines the different types of SMF products on the market and specific requirements in each case.

### 3.7 Australian and New Zealand Environmental and Conservation Council (ANZECC) Identification of PCB containing capacitors booklet (1997)

- This document provides assistance in the identification of PCB-containing capacitors and information is contained within

### 3.8 National PCB Management Plan

- This is a legally enforced document within NSW in the control of PCBs, identification, removal and disposal through correct channels. The safe disposal is also documented within the Environmental Protection Act (EPA)

## 4. Site Description

Lismore Base Hospital is located to the west of Lismore, in north-east New South Wales and is just under 750km north of Sydney. The entire site covers an area of approximately 14 hectares (140,000 m<sup>2</sup>) and services the local area for a large variety of medical needs.

The nine buildings included within this scope of works covering less than a quarter of this area and are as follows:

- Block A – Lismore Base Hospital;
- Block B – Lismore Base Hospital;

- Block C – Lismore Base Hospital;
- Block H – Mortuary;
- Block J;
- Block N – Crawford House;
- Block P;
- Block T – Pathology; &
- Accident & Emergency (A&E).

Building A – Currently utilised as part of the main hospital wards, physiotherapy and offices. This is a long, rectangular building comprising of approximately 5-storeys. Hazardous materials are known and presumed present within this building and extensive attention will be required during the hazardous materials inspections and abatement program.

Building B – Located towards the rear of the area planned for works, this building is approximately 5-storeys high and comprised of brick. Hazardous materials are known and presumed present within this building.

Building C – The largest block within this scope of works, is approximately 9-storeys with a brick and concrete structure. No hazardous materials are known present within this building. However, it should not be assumed that none are present.

Block H (Mortuary) – This small, 2-storey property is located to the east of the site between Block A and Block T. Hazardous materials are known and presumed present within this building.

Block J – Located adjacent to A&E, NAA holds very little information on this building. It should be presumed that hazardous materials are present within this block.

Block N (Crawford House) – This building is located on Hunter Street and is compiled of approximately 5-storeys. An asbestos survey has identified numerous asbestos-containing materials within the block and will require extensive attention during the hazardous materials inspections and abatement program.

Block P – This large building is approximately 2-storeys in height and is known to have asbestos-containing material within the structure. Due to this, it should also be presumed that other hazardous materials are present.

Block T (Pathology) – Adjoined to Block H, the mortuary, comprised of 2-storey, has also been identified as containing asbestos materials and so other hazardous materials should be presumed present.

Accident & Emergency – Located on Uralba Street, this brick building is attached the main hospital, Block C, and is a 2-storey building. NAA hold very little information on this building and so it should also be presumed that hazardous materials are present.

#### 4.1 Previous Survey Information

All documentation held is for works undertaken by NAA and we have not been provided with any documentation of works carried out by other companies. No other information is available for review during this desktop study. Reports reviewed include the following:

Table 2

| Asbestos Building Materials Documentation History |                                                                                                       |                |                                    |
|---------------------------------------------------|-------------------------------------------------------------------------------------------------------|----------------|------------------------------------|
| Job reference number                              | Report Type                                                                                           | Date           | Client                             |
| SN0042:37932                                      | Hazardous Materials Survey report (Mental Health buildings)                                           | December 2004  | Northern NSW Local Health District |
| SN0042:47909                                      | Asbestos Materials Survey Report                                                                      | September 2006 | Northern NSW Local Health District |
| SN0042:54878                                      | Asbestos Management Plan                                                                              | February 2007  | Northern NSW Local Health District |
| SN0042:75471                                      | Lismore Base Hospital sampling - Ward A8 – Heater unit sampling                                       | July 2009      | Northern NSW Local Health District |
| SN0042:82630                                      | Lismore Base Hospital sampling – 51 Uralba Street, South-east corner – Air conditioning unit sampling | June 2010      | Northern NSW Local Health District |

NAA have no documentation for any removal work which may have been undertaken on the site since the above surveys were carried out. Any abatement undertaken directly by North Coast Area Health Service or any affiliate, is not included within this report and material noted may be found to not be present during the recommended destructive hazardous materials survey.

## 5. Consolidated Findings of Review

The table of findings for each building, noted in below, can be found in Appendix A. This provides information on the location, extent, condition and type of material identified or presumed. The information on asbestos-containing materials is more detailed than that of the other hazardous materials. We can confirm the strong likelihood of SMF, PCB's and lead-containing paint and products being present within other areas of the site but none have been carried out to date in the buildings proposed for redevelopment in this project scope.

Table 3 provides an overview of hazardous materials:

Table 3

| Building                 | Asbestos |             | Synthetic Material Fibre (SMF) | Polychlorinated Biphenyl (PCB) | Lead in Paint |
|--------------------------|----------|-------------|--------------------------------|--------------------------------|---------------|
|                          | Friable  | Non-friable |                                |                                |               |
| Block A                  | ✓        | ✓           | Unknown                        | Unknown                        | Unknown       |
| Block B                  | ✓        | ✓           | Unknown                        | Unknown                        | Unknown       |
| Block C                  | -        | -           | Unknown                        | Unknown                        | Unknown       |
| Block H - Mortuary       | -        | ✓           | Unknown                        | Unknown                        | Unknown       |
| Block J                  | Unknown  | Unknown     | Unknown                        | Unknown                        | Unknown       |
| Block N – Crawford House | ✓        | ✓           | Unknown                        | Unknown                        | Unknown       |
| Block P                  | -        | ✓           | Unknown                        | Unknown                        | Unknown       |
| Block T - Pathology      | -        | ✓           | Unknown                        | Unknown                        | Unknown       |
| A & E                    | Unknown  | Unknown     | Unknown                        | Unknown                        | Unknown       |

Specific asbestos-containing materials identified in each building are as detailed in the table 4 below:

Table 4

| Building                 | Pipe/rope insulation | Debris | Fibre cement | Floor covering | Gaskets | Electrical backing board | Bitumen products | Low density board |
|--------------------------|----------------------|--------|--------------|----------------|---------|--------------------------|------------------|-------------------|
| Block A                  | ✓                    | -      | ✓            | -              | ✓       | ✓                        | ✓                | ✓                 |
| Block B                  | -                    | -      | ✓            | ✓              | -       | ✓                        | -                | ✓                 |
| Block C                  | -                    | -      | -            | -              | -       | -                        | -                | -                 |
| Block H - Mortuary       | -                    | -      | ✓            | -              | -       | -                        | ✓                | -                 |
| Block J                  | -                    | -      | -            | -              | -       | -                        | -                | -                 |
| Block N – Crawford House | ✓                    | ✓      | ✓            | ✓              | -       | -                        | ✓                | -                 |
| Block P                  | -                    | -      | ✓            | -              | -       | -                        | -                | -                 |
| Block T - Pathology      | -                    | -      | ✓            | -              | -       | -                        | -                | -                 |
| A & E                    | -                    | -      | -            | -              | -       | -                        | -                | -                 |

Where no hazardous material has been identified, it should not be presumed that no asbestos-containing materials, or other hazardous materials, are present. Due to the knowledge and identification of other buildings through previous surveys, their presence should be assumed until proven otherwise.

There are numerous materials in the buildings within the Zone of Investigation for this project which are considered as either high-medium or medium risk. Refer to Appendix A for locations, material types and risk and Section 9 for control recommendations for these items prior to planned removal.

The reports used to gather this information were conducted in 2006, under the Occupation Health & Safety (OHS) Regulations 2001 and the *Code of Practice for the Safe Removal of Asbestos [NOHSC: 2002 (2005)]*. All future works will be conducted in accordance with the current and recently implemented Work Health & Safety (WHS) Regulations 2011 and the *Code of Practice: How to Manage & Control Asbestos in the Workplace (WorkCover 2011)* and *Code of Practice: How to Safely Remove Asbestos (WorkCover 2011)*.

Our professional judgement and experience was used in the analysis of the reports detailed in this document and due to the amount of information not available, no works should be undertaken which may disturb or uncover a hazardous material until a thorough survey has been undertaken by a competent person.

## 6. Recommendations for Future Works

The level of information held on the buildings involved in this scope of works has limited information on all four hazardous materials to be investigated (refer to Section 2 for agreed scope). As such, we recommend a limited destructive Hazardous Materials (Hazmat) Survey is undertaken prior to any further refurbishment works are commenced. This involves targeted sampling and investigation techniques in areas which, in our experience, are likely to contain these materials.

NAA understand that some buildings will be fully demolished while others will be subject to a major refurbishment program. In the buildings where demolition will be undertaken, all areas, including wall cavities, ceiling spaces and sub-floors should be investigated. The methodology for the Hazmat survey is detailed below in Section 7.

See also Section 9 for *Risk Control of Current Materials*.

## 7. Methodology for Future Survey Works

The survey will involve a thorough visual inspection and assessment of accessible construction materials and the collection and analysis of samples which are suspected of containing asbestos. Each building will be visually inspected for the presence of the following hazardous materials:

**Asbestos** – This component of the assessment will be carried out in accordance with the guidelines set out in the Code of Practice: *How to Manage and Control Asbestos in the Workplace (WorkCover 2011)*. Limited sampling techniques will be undertaken where practicable or specifically targeted in order to attain the required information. Representative samples of suspected asbestos-containing materials will be collected during the survey and placed in plastic clip-lock bags. These samples will subsequently be analysed in NAA's NATA-accredited laboratory for the presence of asbestos by Polarised Light Microscopy. Not every suspected asbestos-containing material will be sampled and where visually similar materials are identified, these will be presumed to be alike in morphology as the sampled item.

Where destructive techniques are employed, intrusions will be made into wall cavities, roof spaces, floor voids and any other area which has the potential to contain asbestos. It should be noted that visible damage will be made during the survey and 'made safe' by the surveyor, unless specifically requested otherwise by the Client.

**Synthetic Mineral Fibres (SMF)** – This component of the assessment will be carried out in accordance with the guidelines documented in the Code of Practice: *The Safe Use of Synthetic Mineral Fibres* [NOHSC: 2006 (1990)]. The survey will broadly identify SMF materials found or suspected of being present during the survey based on a visual assessment.

**Polychlorinated Biphenyls (PCBs)** – Where safe access is gained, where a qualified electrician is either present or has provided a valid isolation certificate, detailed information of capacitors in light fittings and other electrical equipment will be noted for cross-referencing with the Australian and New Zealand Environmental and Conservation Council (ANZECC) *Identification of PCB containing capacitors booklet* (1997). Due to the inherent hazard in accessing electrical components, or other reasons such as height restrictions, immovable equipment and furniture, some light fittings may not be safely accessed. In these instances, comment will be made on the likelihood of PCB-containing materials based upon age and appearance.

**Lead-Containing Paint** – Representative painted surfaces will be tested unobtrusively for the presence of lead using the LeadCheck paint swab method. This test can detect lead in paint at concentrations of 0.5% and above and may indicate lead in some paint films as low as 0.2%. These swabs will be used to determine whether lead chip samples are required which will provide information of the sample to a percentage of 1% accuracy.

The sampling program will be representative of the various types of paints found within the site, concentrating on areas where lead-based paints may have been used (e.g. exterior gloss paints, door jambs, skirting boards etc.). The objective of lead paint identification in this survey is to highlight the presence of lead-based paints within the building, *not* to specifically identify every source of lead-based paint.

### 7.1 Areas where Access may be Restricted during the Investigation

It is noted that given the constraints of practicable access encountered during the risk assessment survey, the following areas may not be accessed or inspected or require specialist equipment to investigate. Where this is necessary, we may require assistance from qualified electricians, asbestos-trained tradesman, scaffolding equipment or Mobile Elevated Work Platforms (MEWPs):

- Within brick/concrete wall cavities and set ceilings;
- Within those areas accessible only by dismantling equipment;
- Within service shafts, ducts etc., concealed within the building structure;

- Within voids or internal areas of plant, equipment, air-conditioning ducts etc.;
- Energised services, gas, electrical, pressurised vessel and chemical lines;
- Within totally inaccessible areas such as voids and cavities created and intimately concealed within the building structure; &
- Height restricted areas.
- The following areas may be totally inaccessible and require further planning to gain access:
- Areas deemed unsafe or hazardous at time of audit.

Where the latter is identified, NAA would highlight this risk to the Client, as soon as reasonably practicable, to assess and discuss a solution to aid the completion of the project.

## 8. Indicative Costs for Removal of Identified Materials

All costs provided within this desktop study document are indicative and should only be used as guidance. NAA have used average pricing of known Class A (friable) Asbestos Removal Contractors (ARCs) due to the friable asbestos present throughout the specified areas of the site. We have also included costs for any necessary air monitoring and visual inspections required, as per the WHS Regulations 2011 and the Code of Practice: *How to Safely Remove Asbestos (Work Cover 2011)*.

We have not included any costs for expenses, including travel, accommodation, equipment hire, etc.

### Pipe insulation & associated debris

NAA have not provided indicative costs for removal of the friable material, predominantly in the form of pipe insulation. There are numerous reasons for this as follows:

- The full extent of the pipe work is unknown within each building;
- Where pipe work travels through walls and cavities, destructive techniques will be required, structural advice will be required & specialist knowledge within the asbestos removal industry should be involved; &
- The pipe insulation may have degraded and debris be present within the area. This needs to be assessed per location.

NAA are not able to provide a cost for this material as there are too many variables which affect pricing without knowing the full extent throughout the nine buildings. It is not feasible or practical to remove part of a highly friable asbestos-containing material and would not be endorsed by Work Cover to provide information on such a material.

NAA note that in the 2007 Hazardous Materials Management Plan (AMP), a Priority 2 (P2) Risk material was identified (see Section 9 for details). As we have no records for removal, we presumed this is still present and is noted within Appendix A.

As a highly friable material, A Class A (friable) ARC is required for removal and fully-controlled conditions are required. This involves an enclosure being built around the material to form an airtight 'bubble', negative pressure units being used to filter air being removed from the area and use of full-face positive pressure respirators, industry-standard coveralls and adequate decontamination facilities.

### Rope insulation

Although this material is classified as friable, it is generally easy to remove

- If the material has been heat-altered, it can be difficult to remove from the pipe. As such, we have presumed that the material has not been adversely affected; &
- We have presumed that this material will be removed with the associated pipe insulation in the respective areas.

### Fibre cement

This material has been costed as a basic removal cost and no specialist equipment has been included. Removal costs are given as follows:

- That the material is removed as non-friable (bonded) and will not any specialist removal techniques, such as an enclosure and negative pressure; &
- No provision has been made for any access equipment, such as scaffolding, towers or MEWPs.

#### Vinyl floor tiles

The removal of floor tiles is usually straight forward as providing it is only the tiles which contain asbestos. If they are in a poor condition and crumbling, they will be classified as friable, rather than bonded in their normal state. Removal costs are given as follows:

- No provision has been made for the removal of any adhesive. Where this is found to be present, the grinding of the floor may be involved which requires more time and increases costs;
- That the material is in a good condition and considered as non-friable (bonded) and as such, may be removed without specialist removal techniques and a full enclosure. If the material is considered as friable, it may require more stringent removal techniques, increasing time and cost; &
- Where the material is beneath equipment, inbuilt structures, etc., this may involve more time and cost implications.

#### Bituminous material

This is a low risk material but, where identified or presumed, is present in large amounts in some areas. It is also unknown as to the base substrate material which the ARC will require prior to pricing for removal. Indicative costs provided below are given as follows:

- The bituminous material is removed from the substrate easily and no specialist equipment is required;
- That the material is in a good condition which allows it to be classified as non-friable and removed as such. As with the floor tiles, if it is in a poor condition, friable techniques may be necessary.

#### Electrical backing boards

This material is, generally, a higher density product and is removed whole as one unit. As such, indicative cost are given as follows:

- The electrical supply has been isolated (either a qualified electrician is present at the time of removal, or a valid isolation certificate is provided) prior to removal and the item is considered redundant; &
- All attached components are to be disposed as part of the unit.

#### Gaskets

This material may be classed as friable if the material is loosely compacted or is damaged. Where the product is loose, they can be collected easily. However, if they are still in situ within the pipe flanges, it is usually easier, safer and cheaper to remove them using the 'wrap and cut' method. This involves the ARC enclosing the gasket within 200 micron polythene and cutting through the pipe work both above and below the flange. This is dependent on the following:

- The pipe work is fully isolated and drained prior to cutting works commencing;
- A hot-work permit is used; &
- The units will remain wrapped, be disposed of whole as asbestos waste and no attempt will be made to remove the gasket.

This method does increase waste disposal costs due to weight.

#### Low density board (Millboard)

Low density board usually requires the use of fully-controlled conditions, as described above. Removal costs are based on the following:

- The board is easy to remove and no further ACMs are found behind the material during removal.

The following shows indicative costs, per item, for removal. This does not include specialist equipment, waste disposal costs, etc. and is purely based on our experience. The Client must not take this cost as binding in any way and solely to assist with project budgeting.

Estimated costs are on an individual item basis and it should be noted that an ARC will vary the amount of men they have on site to undertake the works. The duration for each item is not cumulative for the works but again, solely for estimation purposes.

The ARC cost estimate is based on industry knowledge but is dependent on individual removalist companies pricing, manpower and timescales. NAA fee estimate provides our costs involved in undertaking air monitoring throughout the removal works, visual inspections and clearance air monitoring procedures.

Estimated costs are as follows:

#### Block A – Lismore Base Hospital

| Location & Material                                                                                                        | ARC cost estimate (\$) | NAA Fee estimate (\$) | Duration (days) | Total (\$) (Excl GST) |
|----------------------------------------------------------------------------------------------------------------------------|------------------------|-----------------------|-----------------|-----------------------|
| Level 9, Roof, Floor covering, Bituminous material                                                                         | 4,000                  | 3,200                 | 2               | 7,200                 |
| Level 8, A8 Children's ward, EBB No 11 Cupboard D8-O8, Electrical backing board                                            | 200                    | 200                   | -               | 400                   |
| Level 8, A8 Children's ward, Exterior verandah (south), Floor covering, Bituminous material                                | 4,000                  | 3,200                 | 2               | 7,200                 |
| Level 8, A8 Children's ward, Exterior verandah (south), Eaves, Fibre cement                                                | 4,000                  | 3,200                 | 2               | 7,200                 |
| Level 7, North cleaners cupboard, Riser duct, Pipe insulation                                                              | -                      | -                     | -               | -                     |
| Level 7, A7 Exterior verandah, Eaves, Fibre cement                                                                         | 4,000                  | 3,200                 | 2               | 7,200                 |
| Level 7, A7 Exterior, Verandah, Floor covering, Bituminous material                                                        | 4,000                  | 3,200                 | 2               | 7,200                 |
| Level 6, A6 South fire exit, Fire door insulation core, Low density fibre board                                            | 1,000/door             | 500/door              | 0.25            | 1,500/door            |
| Level 6, Exterior, Verandah, Floor covering, Bituminous material                                                           | 4,000                  | 3,200                 | 2               | 7,200                 |
| Level 6, Exterior, Verandah, Eaves, Fibre cement                                                                           | 4,000                  | 3,200                 | 2               | 7,200                 |
| Level 6, A6 Central ward area, Fire doors to centre of ward, Insulation core, Low density fibre board                      | 1,000/door             | 500/door              | 0.25            | 1,500/door            |
| Level 6, 7 & 8, A6, A7 & A8 Southern verandah, Floor covering, Bituminous material                                         | 4,000                  | 3,200                 | 2               | 7,200                 |
| Level 6, 7 & 8, Southern verandah, Eaves, Fibre cement                                                                     | 4,000                  | 3,200                 | 2               | 7,200                 |
| Level 6, A6 office storage room (west), Pipe/service riser, Pipe insulation                                                | -                      | -                     | -               | -                     |
| Level 5, A6 Office storage room (west), Fire door to air conditioning plant, Fire door insulation, Low density fibre board | 1,000/door             | 500/door              | 0.25            | 1,500/door            |

| Location & Material                                                                                                    | ARC cost estimate (\$) | NAA Fee estimate (\$) | Duration (days) | Total (\$) (Excl GST) |
|------------------------------------------------------------------------------------------------------------------------|------------------------|-----------------------|-----------------|-----------------------|
| Level 4, North verandah, South floor, Floor covering, Bituminous material                                              | 4,000                  | 3,200                 | 2               | 7,200                 |
| Level 4, North exterior roof opposite verandah, Roof covering, Bituminous material                                     | 10,000                 | 8,000                 | 5               | 18,000                |
| Level 3, Female changing room, locker room, Ceiling, Fibre cement                                                      | 4,000                  | 3,200                 | 2               | 7,200                 |
| Level 3, Male changing room & toilet, Fibre cement                                                                     | 4,000                  | 3,200                 | 2               | 7,200                 |
| Level 3, Male changing room & toilet, Fibre cement                                                                     | 4,000                  | 3,200                 | 2               | 7,200                 |
| Level 3, Entrance foyer to Bio-medical Engineering Service, Ceiling, Fibre cement                                      | 2,000                  | 1,600                 | 1               | 3,600                 |
| Level 3, South foyer (D8-A3), Services electrical cupboard, Electrical backing board                                   | 200                    | 200                   | -               | 400                   |
| Level 3, Plant room (north-west) Ceiling above Duct 7, Ceiling pipes, Pipe insulation                                  | -                      | -                     | -               | -                     |
| Level 3, Plant room (north-west) Ceiling above Duct 7, Ceiling pipes, Rope insulation                                  | -                      | -                     | -               | -                     |
| Level 3, Plant room (north-west), ceiling area A/C ducts, Millboard (low density)                                      | 15,000                 | 11,200                | 7               | 26,200                |
| Level 3, PABX room & adjacent hallway near toilets, Ceiling space, Pipe insulation                                     | -                      | -                     | -               | -                     |
| Level 3, Cleaners cupboard G1, Ceiling space, Pipe work, Rope insulation                                               | -                      | -                     | -               | -                     |
| Level 3, Cleaners cupboard G1, Service duct to ceiling, Pipe work, Pipe insulation                                     | -                      | -                     | -               | -                     |
| Level 3, Allied Health foyer & training room, Ceiling space, Pipe work, Pipe insulation                                | -                      | -                     | -               | -                     |
| Level 3, Cleaners cupboard G1, Services duct to ceiling, Ceiling tiles, Fibre cement                                   | 1,000                  | 1,600                 | 1               | 2,600                 |
| Level 2, Garbage room, Ceiling, Fibre cement                                                                           | 2,000                  | 1,600                 | 1               | 3,600                 |
| Subfloor service access, Steam & hot water pipe pumps, Service area, Gaskets                                           | 6,000                  | 4,800                 | 3               | 10,800                |
| Subfloor service access, Hot water pipe (red), Service area pipes running south to north, Pipe insulation              | -                      | -                     | -               | -                     |
| Subfloor service access, Hot water pipe (red), Service area pipes running east to west, Pipe insulation                | -                      | -                     | -               | -                     |
| Subfloor service access, Steam pipes (blue), Service area pipes running north to south & east to west, Pipe insulation | -                      | -                     | -               | -                     |

| Location & Material                                                                         | ARC cost estimate (\$) | NAA Fee estimate (\$) | Duration (days) | Total (\$) (Excl GST) |
|---------------------------------------------------------------------------------------------|------------------------|-----------------------|-----------------|-----------------------|
| Subfloor Service Area, Steam & hot water pipes from pumps, Hot water pipes, Pipe insulation | -                      | -                     | -               | -                     |
| Total                                                                                       | \$91,400               | \$72,300              | 44.5            | \$163,700             |

#### Block B – Lismore Base Hospital

| Location & Material                                                                         | ARC cost estimate (\$) | NAA Fee estimate (\$) | Duration (days) | Total (\$) (Excl GST) |
|---------------------------------------------------------------------------------------------|------------------------|-----------------------|-----------------|-----------------------|
| Level 2, Staff female toilets, Ceiling, Fibre cement                                        | 2,000                  | 1,600                 | 1               | 3,600                 |
| Level 2, Oxygen & Gases room, Fire doors, Insulation core, Low density board                | 1,000/door             | 500/door              | 0.25            | 1,500/door            |
| Level 3, Male & female toilets (entrance), Ceiling, Fibre cement                            | 2,000                  | 1,600                 | 1               | 3,600                 |
| Level 3, DB03 Switch room, Electrical unit, Electrical backing board                        | 200                    | 200                   | -               | 400                   |
| Level 3, Foyer hallway, Floor covering, Vinyl floor tiles                                   | 4,000                  | 3,200                 | 2               | 7,200                 |
| Level 3, Dieticians Office (south-west), Fire exit door, Insulation core, Low density board | 1,000/door             | 500/door              | 0.25            | 1,500/door            |
| Total                                                                                       | \$10,200               | \$7,600               | 4.5             | \$17,800              |

#### Block C – Lismore Base Hospital

No asbestos material has been identified or presumed within this building to date.

#### Block H – Mortuary

| Location & Material                                                           | ARC cost estimate (\$) | NAA Fee estimate (\$) | Duration (days) | Total (\$) (Excl GST) |
|-------------------------------------------------------------------------------|------------------------|-----------------------|-----------------|-----------------------|
| Level 1, Cupboard adjacent to bathroom, Walls, Fibre cement                   | 1,000                  | 1,600                 | 1               | 2,600                 |
| Exterior, Room opposite side to stairway of morgue, Roof, Bituminous material | 4,000                  | 3,200                 | 2               | 7,200                 |
| Total                                                                         | \$5,000                | \$4,800               | 3               | \$9,800               |

#### Block J – Lismore Base Hospital

No asbestos material has been identified or presumed within this building to date.

## Block N – Crawford House

| Location & Material                                                                                              | ARC cost estimate (\$) | NAA Fee estimate (\$) | Duration (days) | Total (\$) (Excl GST) |
|------------------------------------------------------------------------------------------------------------------|------------------------|-----------------------|-----------------|-----------------------|
| Roof, Exterior throughout, Floor covering, Bituminous waterproofing membrane                                     | 20,000                 | 16,000                | 10              | 36,000                |
| Roof, Hot water tank room, North wall, Pipe work (two pipes), Pipe insulation                                    | -                      | -                     | -               | -                     |
| Level 5, Storage/linen cupboards in alcove opposite southern stairwell & room 31, Ceilings, Fibre cement         | 1,000                  | 1,600                 | 1               | 2,600                 |
| Level 5, Common room/lounge at north-west end of southern wing, Floor covering beneath carpet, Vinyl floor tiles | 3,000                  | 3,200                 | 2               | 6,200                 |
| Level 5, Riser cupboard adjacent to fire hose reel No. NH112, Pipe work, Pipe insulation                         | -                      | -                     | -               | -                     |
| Level 5, Riser cupboard adjacent to electrical cupboard No. 34, Pipe insulation                                  | -                      | -                     | -               | -                     |
| Level 5, Riser cupboard adjacent to electrical cupboard No. 34, Pipe insulation debris                           | -                      | -                     | -               | -                     |
| Level 5, Cleaners room (marked No. 35), Ceiling, Fibre cement                                                    | 1,200                  | 1,600                 | 1               | 2,800                 |
| Subfloor, South-west section adjacent to entry door, Redundant pipe work (5 pipes), Pipe insulation              | -                      | -                     | -               | -                     |
| Level 5, Kitchen service duct, Pipe work (redundant), Pipe insulation                                            | -                      | -                     | -               | -                     |
| Level 4, Kitchen service duct, Pipe work, Pipe insulation                                                        | -                      | -                     | -               | -                     |
| Level 4, Kitchen service duct, Pipe work, Rope insulation                                                        | -                      | -                     | -               | -                     |
| Level 4, Cleaners cupboard, Ceiling, Fibre cement                                                                | 1,200                  | 1,600                 | 1               | 2,800                 |
| Level 4, Fire hydrant upper cupboard adjacent to fire hose No. 11193, Pipe work, Pipe insulation                 | -                      | -                     | -               | -                     |
| Level 4, Service duct 34B adjacent to toilets, Pipe work, Pipe insulation                                        | -                      | -                     | -               | -                     |
| Level 4 & 5, Toilets service duct, Pipe work, Pipe insulation                                                    | -                      | -                     | -               | -                     |
| Level 4, Southern & eastern wings, Storage/linen cupboards, Ceiling, Fibre cement                                | 1,200                  | 1,600                 | 1               | 2,800                 |
| Level 3, Kitchen service duct, Pipe work, Pipe insulation                                                        | -                      | -                     | -               | -                     |
| Level 3, Kitchen service duct, Pipe work, Rope insulation                                                        | -                      | -                     | -               | -                     |

| Location & Material                                                                                                                 | ARC cost estimate (\$) | NAA Fee estimate (\$) | Duration (days) | Total (\$) (Excl GST) |
|-------------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------------------|-----------------|-----------------------|
| Level 3, Fire hydrant upper cupboard adjacent to fire hose No. 11074 (southern area adjacent to kitchen, Pipe work, Pipe insulation | -                      | -                     | -               | -                     |
| Level 3, Service duct adjacent to electrical cupboard No. 32, Pipe insulation                                                       | -                      | -                     | -               | -                     |
| Level 3, Southern wing, Cleaners cupboard, Ceiling, Fibre cement                                                                    | 1,500                  | 3,200                 | 2               | 4,700                 |
| Level 3, Male toilets service duct, Pipe work, Pipe insulation                                                                      | -                      | -                     | -               | -                     |
| Level 2, Kitchen service duct, Pipe work, Pipe insulation                                                                           | -                      | -                     | -               | -                     |
| Level 2, Kitchen service duct, Pipe work, Rope insulation                                                                           | -                      | -                     | -               | -                     |
| Level 2, Fire hydrant upper cupboard adjacent to fire hose No. 11067, Pipe insulation                                               | -                      | -                     | -               | -                     |
| Level 2, Cleaners cupboard (southern), Ceiling, Fibre cement                                                                        | 1,500                  | 3,200                 | 2               | 4,700                 |
| Level 2, Service duct adjacent to electrical cupboard No. 30, Pipe work, Pipe insulation                                            | -                      | -                     | -               | -                     |
| Level 2, Female toilet service duct, Pipe work, Pipe insulation                                                                     | -                      | -                     | -               | -                     |
| Level 1, Storage room (former kitchen), Service duct, Pipe work, Pipe insulation                                                    | -                      | -                     | -               | -                     |
| Level 1, Storage room (former kitchen), Service duct, Pipe work, Rope insulation                                                    | -                      | -                     | -               | -                     |
| Level 1, Fire hydrant upper cupboard adjacent to fire hose No. 11208, Pipe work, Pipe insulation                                    | -                      | -                     | -               | -                     |
| Level 1, Cleaners cupboard (southern), Ceiling, Fibre cement                                                                        | 1,500                  | 3,200                 | 2               | 4,700                 |
| Level 1, Service duct 5 adjacent to electrical cupboard No. 23, Pipe work, Pipe insulation                                          | -                      | -                     | -               | -                     |
| Level 1, Female toilet service duct, Pipe work                                                                                      | -                      | -                     | -               | -                     |
| Ground floor, Fire stairwell to northern end, Floor, Vinyl floor tiles                                                              | 2,000                  | 3,200                 | 2               | 5,200                 |
| Ground floor, Toilet opposite lift, Service duct & ceiling space, Pipe work, Pipe insulation                                        | -                      | -                     | -               | -                     |
| Ground floor, Toilet opposite lifts, ceiling space, Pipe work, Rope insulation                                                      | -                      | -                     | -               | -                     |
| Ground floor, Kitchen adjoining meeting room storage cupboard opposite stairs, Ceiling, Fibre cement                                | 1,200                  | 1,600                 | 1               | 2,800                 |

| Location & Material                                                                                   | ARC cost estimate (\$) | NAA Fee estimate (\$) | Duration (days) | Total (\$) (Excl GST) |
|-------------------------------------------------------------------------------------------------------|------------------------|-----------------------|-----------------|-----------------------|
| Ground floor, Fire hydrant upper cupboard adjacent to fire hose No. 11195, pipe work, Pipe insulation | -                      | -                     | -               | -                     |
| Ground floor, service duct adjacent to electrical cupboard No. 32, Pipe work, Pipe insulation         | -                      | -                     | -               | -                     |
| Ground floor, Cleaners cupboard (southern area), Ceiling, Fibre cement                                | 1,500                  | 3,200                 | 2               | 4,700                 |
| Ground floor, Southern end, Male toilets, floor covering, Vinyl floor tiles                           | 2,000                  | 3,200                 | 2               | 5,200                 |
| Total                                                                                                 | \$38,800               | \$46,400              | 29              | \$85,200              |

This building has a large amount of friable asbestos present in the form of pipe insulation. See Final Indicative Costs table at the end of this section.

#### Block P

| Location & Material                                                                                                           | ARC cost estimate (\$) | NAA Fee estimate (\$) | Duration (days) | Total (\$) (Excl GST) |
|-------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------------------|-----------------|-----------------------|
| Level 1, Library, Ceiling, Fibre cement                                                                                       | 5,000                  | 3,200                 | 2               | 8,200                 |
| Level 1, Seating area opposite library section, Ceiling, Fibre cement                                                         | 5,000                  | 3,200                 | 2               | 8,200                 |
| Level 1, Walkway from Block P to Block C (Interior & exterior), Adjacent to doorway to Block P, Walls & ceiling, Fibre cement | 10,000                 | 8,000                 | 5               | 18,000                |
| Level 1, Cancer Care Treatment Centre toilets & shower area, Walls, Fibre cement                                              | 1,200                  | 1,600                 | 1               | 2,800                 |
| Level 1, Cancer Care Office, Kitchen, Walls, Fibre cement                                                                     | 1,200                  | 1,600                 | 1               | 2,800                 |
| Ground floor to level 1 stairwell, Stairwell, Ceiling to underside of stairwell, Fibre cement                                 | 2,000                  | 3,200                 | 2               | 5,200                 |
| Ground floor, Office Admin, Photocopier room, North east corner, Ceiling, Fibre cement                                        | 2,000                  | 3,200                 | 2               | 5,200                 |
| Exterior, Ground floor, Courtyard to subfloor access (northern area adjacent to stairs), Wall paneling, Fibre cement          | 4,000                  | 3,200                 | 2               | 7,200                 |
| Exterior, Rear perimeter of building (northern), Eaves, Fibre cement                                                          | 6,000                  | 4,800                 | 3               | 10,800                |
| Total                                                                                                                         | \$36,400               | \$32,000              | 20              | \$68,400              |

## Block T - Pathology

| Location & Material                                                                | ARC cost estimate (\$) | NAA Fee estimate (\$) | Duration (days) | Total (\$) (Excl GST) |
|------------------------------------------------------------------------------------|------------------------|-----------------------|-----------------|-----------------------|
| Exterior, Front entrance verandah, Ceiling & eaves, East to entrance, Fibre cement | 2,000                  | 3,200                 | 2               | 5,200                 |
| Exterior, Rear of building, Surrounding roof perimeter, Eaves, Fibre cement        | 4,000                  | 3,200                 | 2               | 7,200                 |
| Exterior, Western entrance, Eaves, Fibre cement                                    | 2,000                  | 3,200                 | 2               | 5,200                 |
| <b>Total</b>                                                                       | <b>\$8,000</b>         | <b>\$9,600</b>        | <b>6</b>        | <b>\$17,600</b>       |

Below is a table showing the total of the indicative costs above:

### Final Indicative Costs

Table 5

| Location & Material                                                 | ARC cost estimate (\$) | NAA Fee estimate (\$) | Duration (days) | Total (\$) (Excl GST) |
|---------------------------------------------------------------------|------------------------|-----------------------|-----------------|-----------------------|
| Total consolidated costs for all known or presumed ACMS noted above | 189,800                | 172,700               | 107             | 362,500               |

Due to the amount of unknown variables, NAA are unable to provide consolidated costs for the site as a whole. We cannot provide information on partial removal of the highly friable pipe insulation due to the risk factors involved and the amount of material remaining in the building. It is not cost or time effective for removal of these materials to take place until the full pipe lengths have been traced.

For budgeting purposes, Health Infrastructure & Aurora Projects Pty Ltd should prepare for an additional \$200,000 to \$250,000 to be applied, as a minimum. But it should also be noted that the overall costs in the tables above may reduce with a structured program of works. The \$362,500 cost and 22 weeks, above, are based purely on an individual item basis and a more realistic estimation, taking into account that multiple zones may be tackled in each phase of works) is as follows below:

### Realistic Indicative Cost

Table 6

| Location & Material                                                 | ARC cost estimate (\$) | NAA Fee estimate (\$) | Duration (days) | Total (\$) (Excl GST) |
|---------------------------------------------------------------------|------------------------|-----------------------|-----------------|-----------------------|
| Total consolidated costs for all known or presumed ACMS noted above | 160,000                | 128,000               | 80              | 288,000               |

This estimate is for budgetary purposes only and no variations in cost may be held to NAA. Hygienist costs are dependent on the duration on site and so the ARC cost is vital in calculating the hygienist fees.

## 9. Risk Control of Current Materials

There is an Asbestos Management Plan (AMP) held for the site but this has not been updated by NAA since 2007. As a consequence, this document is out of date, as regulations in force between 2007 and 2011 stated that annual re-inspections were required by the duty holder of a property or workplace. No comment can be made of the

current state of any of the identified or presumed ACMs within the site. In 2011, the newly issued WHS Regulations 2011 and the Code of Practice: *How to Manage and Control Asbestos in The Workplace* provided instruction and guidance on re-inspecting ACMs every five years, or sooner if any work, disturbance or change in condition occurs.

In light of this, NAA recommend the re-inspection of all known asbestos materials. If the redevelopment of the buildings is not planned to take place in the next 2-3 months, a full re-inspection of the identified and presumed asbestos-containing materials should be undertaken as a priority. Current risks include:

- The asbestos pipe insulation debris has not been removed from Crawford House (see Appendix A).
- Further disturbance potential to either friable material or easily disturbed items may have occurred.

The consequence of this is that exposure of employees, patients and visitors to the site may have occurred. As the NSW regulations may have been breached, heavy fines may be applied to the duty holder, currently LHD.

If materials are found to be in a condition which may cause potential exposure, these should be remediated as soon as practicable to prevent further exposure or damage being caused.

## Desktop study of Hazardous Materials Surveys to WHS Regulations 2011

Health Infrastructure

Lismore Base Hospital (Targeted Buildings), Lismore NSW

Appendix A: Desktop study Results

## Asbestos-Containing Material

### Block A – Lismore Base Hospital

| Report Available                   | Location                                                               | Material                 | Friable or Non-friable | Risk Level | Extent           | Comments/Recommendations                                                                                                      |
|------------------------------------|------------------------------------------------------------------------|--------------------------|------------------------|------------|------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Yes – NAA<br>Ref: SN0042:<br>47909 | Level 9, Roof, Floor covering                                          | Bituminous material      | Non-friable            | Low        | 20m <sup>2</sup> | Due for re-inspection & AMP update.<br>Remove by a Class B licensed Asbestos Removal Contractor prior to redevelopment works. |
|                                    | Level 8, A8 Children's ward, EBB No 11 Cupboard D8-O8                  | Electrical backing board | Non-friable            | Low        | 1m <sup>2</sup>  | Due for re-inspection & AMP update.<br>Remove by a Class B licensed Asbestos Removal Contractor prior to redevelopment works. |
|                                    | Level 8, A8 Children's ward, Exterior verandah (south), Floor covering | Bituminous material      | Non-friable            | Low        | 20m <sup>2</sup> | Due for re-inspection & AMP update.<br>Remove by a Class B licensed Asbestos Removal Contractor prior to redevelopment works. |
|                                    | Level 8, A8 Children's ward, Exterior verandah (south), Eaves          | Fibre cement             | Non-friable            | Low        | 20m <sup>2</sup> | Due for re-inspection & AMP update.<br>Remove by a Class B licensed Asbestos Removal Contractor prior to redevelopment works. |
|                                    | Level 7, North cleaners cupboard, Riser duct                           | Pipe insulation          | Friable                | Medium     | 1 linear metre   | Due for re-inspection & AMP update.<br>Remove by a Class A licensed Asbestos Removal Contractor prior to redevelopment works. |
|                                    | Level 7, A7 Exterior verandah, Eaves                                   | Fibre cement             | Non-friable            | Low        | 20m <sup>2</sup> | Due for re-inspection & AMP update.<br>Remove by a Class B licensed Asbestos Removal Contractor prior to redevelopment works. |

| Report Available                   | Location                                                                     | Material                | Friable or Non-friable | Risk Level | Extent           | Comments/Recommendations                                                                                                      |
|------------------------------------|------------------------------------------------------------------------------|-------------------------|------------------------|------------|------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Yes – NAA<br>Ref: SN0042:<br>47909 | Level 7, A7 Exterior, Verandah, Floor covering                               | Bituminous material     | Non-friable            | Low        | 20m <sup>2</sup> | Due for re-inspection & AMP update.<br>Remove by a Class B licensed Asbestos Removal Contractor prior to redevelopment works. |
|                                    | Level 6, A6 South fire exit, Fire door insulation core                       | Low density fibre board | Friable                | Medium     | 2 linear metres  | Due for re-inspection & AMP update.<br>Remove by a Class A licensed Asbestos Removal Contractor prior to redevelopment works. |
|                                    | Level 6, Exterior, Verandah, Floor covering                                  | Bituminous material     | Non-friable            | Low        | 20m <sup>2</sup> | Due for re-inspection & AMP update.<br>Remove by a Class B licensed Asbestos Removal Contractor prior to redevelopment works. |
|                                    | Level 6, Exterior, Verandah, Eaves                                           | Fibre cement            | Non-friable            | Low        | 20m <sup>2</sup> | Due for re-inspection & AMP update.<br>Remove by a Class B licensed Asbestos Removal Contractor prior to redevelopment works. |
|                                    | Level 6, A6 Central ward area, Fire doors to centre of ward, Insulation core | Low density fibre board | Friable                | Medium     | 4 linear metres  | Due for re-inspection & AMP update.<br>Remove by a Class A licensed Asbestos Removal Contractor prior to redevelopment works. |
|                                    | Level 6, 7 & 8, A6, A7 & A8 Southern verandah, Floor covering                | Bituminous material     | Non-friable            | Low        | 10m <sup>2</sup> | Due for re-inspection & AMP update.<br>Remove by a Class B licensed Asbestos Removal Contractor prior to redevelopment works. |
|                                    | Level 6, 7 & 8, Southern verandah, Eaves                                     | Fibre cement            | Non-friable            | Low        | 15m <sup>2</sup> | Due for re-inspection & AMP update.<br>Remove by a Class B licensed Asbestos Removal Contractor prior to redevelopment works. |

| Report Available                   | Location                                                                                          | Material                | Friable or Non-friable | Risk Level | Extent           | Comments/Recommendations                                                                                                       |
|------------------------------------|---------------------------------------------------------------------------------------------------|-------------------------|------------------------|------------|------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Yes – NAA<br>Ref: SN0042:<br>47909 | Level 6, A6 office storage room (west), Pipe/service riser                                        | Pipe insulation         | Friable                | Medium     | 6m <sup>2</sup>  | Due for re-inspection & AMP update.<br>Remove by a Class A licensed Asbestos Removal Contractor prior to redevelopment works.  |
|                                    | Level 5, A6 Office storage room (west), Fire door to air conditioning plant, Fire door insulation | Low density fibre board | Friable                | Medium     | 2 linear metres  | Due for re-inspection & AMP update.<br>Remove by a Class A licensed Asbestos Removal Contractor prior to redevelopment works.  |
|                                    | Level 4, North verandah, South floor, Floor covering                                              | Bituminous material     | Non-friable            | Low        | 20m <sup>2</sup> | Due for re-inspection & AMP update.<br>Remove by a Class B licensed Asbestos Removal Contractor prior to redevelopment works.  |
|                                    | Level 4, North exterior roof opposite verandah, Roof covering                                     | Bituminous material     | Non-friable            | Low        | 60m <sup>2</sup> | Due for re-inspection & AMP update.<br>Remove by a Class B licensed Asbestos Removal Contractor prior to redevelopment works.  |
|                                    | Level 3, Female changing room, locker room, Ceiling                                               | Fibre cement            | Non-friable            | Low        | 60m <sup>2</sup> | Due for re-inspection & AMP update.<br>Remove by a Class B licensed Asbestos Removal Contractor prior to redevelopment works.. |
|                                    | Level 3, Male changing room & toilet                                                              | Fibre cement            | Non-friable            | Low        | 80m <sup>2</sup> | Due for re-inspection & AMP update.<br>Remove by a Class B licensed Asbestos Removal Contractor prior to redevelopment works.  |
|                                    | Level 3, Male changing room & toilet                                                              | Fibre cement            | Non-friable            | Low        | 80m <sup>2</sup> | Due for re-inspection & AMP update.<br>Remove by a Class B licensed Asbestos Removal Contractor prior to redevelopment works.  |

| Report Available                   | Location                                                             | Material                 | Friable or Non-friable | Risk Level | Extent           | Comments/Recommendations                                                                                                      |
|------------------------------------|----------------------------------------------------------------------|--------------------------|------------------------|------------|------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Yes – NAA<br>Ref: SN0042:<br>47909 | Level 3, Entrance foyer to Bio-medical Engineering Service, Ceiling  | Fibre cement             | Non-friable            | Low        | 20m <sup>2</sup> | Due for re-inspection & AMP update.<br>Remove by a Class B licensed Asbestos Removal Contractor prior to redevelopment works. |
|                                    | Level 3, South foyer (D8-A3), Services electrical cupboard           | Electrical backing board | Non-friable            | Low        | 2m <sup>2</sup>  | Due for re-inspection & AMP update.<br>Remove by a Class B licensed Asbestos Removal Contractor prior to redevelopment works. |
|                                    | Level 3, Plant room (north-west) Ceiling above Duct 7, Ceiling pipes | Pipe insulation          | Friable                | Medium     | 3 linear metres  | Due for re-inspection & AMP update.<br>Remove by a Class A licensed Asbestos Removal Contractor prior to redevelopment works. |
|                                    | Level 3, Plant room (north-west) Ceiling above Duct 7, Ceiling pipes | Rope insulation          | Friable                | Medium     | 3 linear metres  | Due for re-inspection & AMP update.<br>Remove by a Class A licensed Asbestos Removal Contractor prior to redevelopment works. |
|                                    | Level 3, Plant room (north-west), ceiling area A/C ducts             | Millboard (low density)  | Friable                | Medium     | 1m <sup>2</sup>  | Due for re-inspection & AMP update.<br>Remove by a Class A licensed Asbestos Removal Contractor prior to redevelopment works. |
|                                    | Level 3, PABX room & adjacent hallway near toilets, Ceiling space    | Pipe insulation          | Friable                | Medium     | 4 linear metres  | Due for re-inspection & AMP update.<br>Remove by a Class A licensed Asbestos Removal Contractor prior to redevelopment works. |
|                                    | Level 3, Cleaners cupboard G1, Ceiling space, Pipe work              | Rope insulation          | Friable                | Medium     | <1 linear metre  | Due for re-inspection & AMP update.<br>Remove by a Class A licensed Asbestos Removal Contractor prior to redevelopment works. |

| Report Available                   | Location                                                                                 | Material        | Friable or Non-friable | Risk Level | Extent           | Comments/Recommendations                                                                                                      |
|------------------------------------|------------------------------------------------------------------------------------------|-----------------|------------------------|------------|------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Yes – NAA<br>Ref: SN0042:<br>47909 | Level 3, Cleaners cupboard G1, Service duct to ceiling, Pipe work                        | Pipe insulation | Friable                | Medium     | <1 linear metre  | Due for re-inspection & AMP update.<br>Remove by a Class A licensed Asbestos Removal Contractor prior to redevelopment works. |
|                                    | Level 3, Allied Health foyer & training room, Ceiling space, Pipe work                   | Pipe insulation | Friable                | Medium     | 20 linear metre  | Due for re-inspection & AMP update.<br>Remove by a Class A licensed Asbestos Removal Contractor prior to redevelopment works. |
|                                    | Level 3, Cleaners cupboard G1, Services duct to ceiling, Ceiling tiles                   | Fibre cement    | Non-friable            | Low        | 1m <sup>2</sup>  | Due for re-inspection & AMP update.<br>Remove by a Class B licensed Asbestos Removal Contractor prior to redevelopment works. |
|                                    | Level 2, Garbage room, Ceiling                                                           | Fibre cement    | Non-friable            | Low        | 30m <sup>2</sup> | Due for re-inspection & AMP update.<br>Remove by a Class B licensed Asbestos Removal Contractor prior to redevelopment works. |
|                                    | Subfloor service access, Steam & hot water pipe pumps, Service area                      | Gaskets         | Friable                | Medium     | 1m <sup>2</sup>  | Due for re-inspection & AMP update.<br>Remove by a Class A licensed Asbestos Removal Contractor prior to redevelopment works. |
|                                    | Subfloor service access, Hot water pipe (red), Service area pipes running south to north | Pipe insulation | Friable                | Medium     | 25 linear metre  | Due for re-inspection & AMP update.<br>Remove by a Class A licensed Asbestos Removal Contractor prior to redevelopment works. |
|                                    | Subfloor service access, Hot water pipe (red), Service area pipes running east to west   | Pipe insulation | Friable                | Medium     | 30 linear metre  | Due for re-inspection & AMP update.<br>Remove by a Class A licensed Asbestos Removal Contractor prior to redevelopment works. |

| Report Available                   | Location                                                                                              | Material        | Friable or Non-friable | Risk Level | Extent          | Comments/Recommendations                                                                                                          |
|------------------------------------|-------------------------------------------------------------------------------------------------------|-----------------|------------------------|------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Yes – NAA<br>Ref: SN0042:<br>47909 | Subfloor service access, Steam pipes (blue), Service area pipes running north to south & east to west | Pipe insulation | Friable                | Medium     | 30 linear metre | Due for re-inspection & AMP update.<br><br>Remove by a Class A licensed Asbestos Removal Contractor prior to redevelopment works. |
|                                    | Subfloor Service Area, Steam & hot water pipes from pumps, Hot water pipes                            | Pipe insulation | Friable                | Medium     | 2 linear metre  | Due for re-inspection & AMP update.<br><br>Remove by a Class A licensed Asbestos Removal Contractor prior to redevelopment works. |

## Block B – Lismore Base Hospital

| Report Available                   | Location                                                  | Material                 | Friable or Non-friable | Risk Level | Extent           | Comments/Recommendations                                                                                                          |
|------------------------------------|-----------------------------------------------------------|--------------------------|------------------------|------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Yes – NAA<br>Ref: SN0042:<br>47909 | Level 2, Staff female toilets, Ceiling                    | Fibre cement             | Non-friable            | Low        | 20m <sup>2</sup> | Due for re-inspection & AMP update.<br><br>Remove by a Class B licensed Asbestos Removal Contractor prior to redevelopment works. |
|                                    | Level 2, Oxygen & Gases room, Fire doors, Insulation core | Low density board        | Friable                | Medium     | 2m <sup>2</sup>  | Due for re-inspection & AMP update.<br><br>Remove by a Class A licensed Asbestos Removal Contractor prior to redevelopment works. |
|                                    | Level 3, Male & female toilets (entrance), Ceiling        | Fibre cement             | Non-friable            | Low        | 20m <sup>2</sup> | Due for re-inspection & AMP update.<br><br>Remove by a Class B licensed Asbestos Removal Contractor prior to redevelopment works. |
|                                    | Level 3, DB03 Switch room, Electrical unit                | Electrical backing board | Non-friable            | Low        | 1m <sup>2</sup>  | Due for re-inspection & AMP update.<br><br>Remove by a Class B licensed Asbestos Removal Contractor prior to redevelopment works. |

| Report Available                   | Location                                                                 | Material          | Friable or Non-friable | Risk Level | Extent           | Comments/Recommendations                                                                                                      |
|------------------------------------|--------------------------------------------------------------------------|-------------------|------------------------|------------|------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Yes – NAA<br>Ref: SN0042:<br>47909 | Level 3, Foyer hallway, Floor covering                                   | Vinyl floor tiles | Non-friable            | Low        | 40m <sup>2</sup> | Due for re-inspection & AMP update.<br>Remove by a Class B licensed Asbestos Removal Contractor prior to redevelopment works. |
|                                    | Level 3, Dieticians Office (south-west), Fire exit door, Insulation core | Low density board | Friable                | Medium     | 2m <sup>2</sup>  | Due for re-inspection & AMP update.<br>Remove by a Class A licensed Asbestos Removal Contractor prior to redevelopment works. |

## Block C – Lismore Base Hospital

| Report Available                   | Location | Material | Friable or Non-friable | Risk Level | Extent | Comments/Recommendations                                                                                                                                  |
|------------------------------------|----------|----------|------------------------|------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Yes – NAA<br>Ref: SN0042:<br>47909 | -        | -        | -                      | -          | -      | No ACMs were identified or presumed within the building at the time of the previous surveys.<br>A full hazmat should be undertaken prior to redevelopment |

## Block H - Mortuary

| Report Available                   | Location                                                 | Material            | Friable or Non-friable | Risk Level | Extent            | Comments/Recommendations                                                                                                      |
|------------------------------------|----------------------------------------------------------|---------------------|------------------------|------------|-------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Yes – NAA<br>Ref: SN0042:<br>47909 | Level 1, Cupboard adjacent to bathroom, Walls            | Fibre cement        | Non-friable            | Low        | 6m <sup>2</sup>   | Due for re-inspection & AMP update.<br>Remove by a Class B licensed Asbestos Removal Contractor prior to redevelopment works. |
|                                    | Exterior, Room opposite side to stairway of morgue, Roof | Bituminous material | Non-friable            | Low        | 100m <sup>2</sup> | Due for re-inspection & AMP update.<br>Remove by a Class B licensed Asbestos Removal Contractor prior to redevelopment works. |

## Block J

| Report Available | Location | Material | Friable or Non-friable | Risk Level | Extent | Comments/Recommendations                                                                                                |
|------------------|----------|----------|------------------------|------------|--------|-------------------------------------------------------------------------------------------------------------------------|
| No               | -        | -        | -                      | -          | -      | No asbestos information is available for the building.<br><br>A full hazmat should be undertaken prior to redevelopment |

## Block N – Crawford House

| Report Available                   | Location                                                                                      | Material                          | Friable or Non-friable | Risk Level | Extent            | Comments/Recommendations                                                                                                          |
|------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------|------------------------|------------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Yes – NAA<br>Ref: SN0042:<br>47909 | Roof, Exterior throughout, Floor covering                                                     | Bituminous waterproofing membrane | Non-friable            | Low        | 600m <sup>2</sup> | Due for re-inspection & AMP update.<br><br>Remove by a Class B licensed Asbestos Removal Contractor prior to redevelopment works. |
|                                    | Roof, Hot water tank room, North wall, Pipe work (two pipes)                                  | Pipe insulation                   | Friable                | Medium     | 20m <sup>2</sup>  | Due for re-inspection & AMP update.<br><br>Remove by a Class A licensed Asbestos Removal Contractor prior to redevelopment works. |
|                                    | Level 5, Storage/linen cupboards in alcove opposite southern stairwell & room 31, Ceilings    | Fibre cement                      | Non-friable            | Low        | 4m <sup>2</sup>   | Due for re-inspection & AMP update.<br><br>Remove by a Class B licensed Asbestos Removal Contractor prior to redevelopment works. |
|                                    | Level 5, Common room/lounge at north-west end of southern wing, Floor covering beneath carpet | Vinyl floor tiles                 | Non-friable            | Low        | 30m <sup>2</sup>  | Due for re-inspection & AMP update.<br><br>Remove by a Class B licensed Asbestos Removal Contractor prior to redevelopment works. |

| Report Available                   | Location                                                                            | Material               | Friable or Non-friable | Risk Level | Extent           | Comments/Recommendations                                                                                                                                                                                           |
|------------------------------------|-------------------------------------------------------------------------------------|------------------------|------------------------|------------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Yes – NAA<br>Ref: SN0042:<br>47909 | Level 5, Riser cupboard adjacent to fire hose reel No. NH112, Pipe work             | Pipe insulation        | Friable                | Medium     | 5m <sup>2</sup>  | Due for re-inspection & AMP update.<br>Remove by a Class A licensed Asbestos Removal Contractor prior to redevelopment works.                                                                                      |
|                                    | Level 5, Riser cupboard adjacent to electrical cupboard No. 34,                     | Pipe insulation        | Friable                | Medium     | 3 linear metres  | Due for re-inspection & AMP update.<br>Remove by a Class A licensed Asbestos Removal Contractor prior to redevelopment works.                                                                                      |
|                                    | Level 5, Riser cupboard adjacent to electrical cupboard No. 34,                     | Pipe insulation debris | Friable                | High       | 3 m <sup>2</sup> | Restrict access to unauthorised persons. Permit to work system should be applied.<br>Due for re-inspection & AMP update.<br>Remove by a Class A licensed Asbestos Removal Contractor prior to redevelopment works. |
|                                    | Level 5, Cleaners room (marked No. 35), Ceiling                                     | Fibre cement           | Non-friable            | Low        | 5 m <sup>2</sup> | Due for re-inspection & AMP update.<br>Remove by a Class B licensed Asbestos Removal Contractor prior to redevelopment works.                                                                                      |
|                                    | Subfloor, South-west section adjacent to entry door, Redundant pipe work (5 pipes), | Pipe insulation        | Friable                | Medium     | 15 linear metres | Due for re-inspection & AMP update.<br>Remove by a Class A licensed Asbestos Removal Contractor prior to redevelopment works.                                                                                      |
|                                    | Level 5, Kitchen service duct, Pipe work (redundant)                                | Pipe insulation        | Friable                | Medium     | 3 linear metres  | Due for re-inspection & AMP update.<br>Remove by a Class A licensed Asbestos Removal Contractor prior to redevelopment works.                                                                                      |

| Report Available                   | Location                                                                        | Material        | Friable or Non-friable | Risk Level | Extent           | Comments/Recommendations                                                                                                      |
|------------------------------------|---------------------------------------------------------------------------------|-----------------|------------------------|------------|------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Yes – NAA<br>Ref: SN0042:<br>47909 | Level 4, Kitchen service duct, Pipe work                                        | Pipe insulation | Friable                | Medium     | 3 linear metres  | Due for re-inspection & AMP update.<br>Remove by a Class A licensed Asbestos Removal Contractor prior to redevelopment works. |
|                                    | Level 4, Kitchen service duct, Pipe work                                        | Rope insulation | Friable                | Medium     | 1 linear metre   | Due for re-inspection & AMP update.<br>Remove by a Class A licensed Asbestos Removal Contractor prior to redevelopment works. |
|                                    | Level 4, Cleaners cupboard, Ceiling                                             | Fibre cement    | Non-friable            | Low        | 2 m <sup>2</sup> | Due for re-inspection & AMP update.<br>Remove by a Class B licensed Asbestos Removal Contractor prior to redevelopment works. |
|                                    | Level 4, Fire hydrant upper cupboard adjacent to fire hose No. 11193, Pipe work | Pipe insulation | Friable                | Medium     | 3 linear metres  | Due for re-inspection & AMP update.<br>Remove by a Class A licensed Asbestos Removal Contractor prior to redevelopment works. |
|                                    | Level 4, Service duct 34B adjacent to toilets, Pipe work                        | Pipe insulation | Friable                | Medium     | 3 linear metres  | Due for re-inspection & AMP update.<br>Remove by a Class A licensed Asbestos Removal Contractor prior to redevelopment works. |
|                                    | Level 4 & 5, Toilets service duct, Pipe work                                    | Pipe insulation | Friable                | Medium     | 6 linear metres  | Due for re-inspection & AMP update.<br>Remove by a Class A licensed Asbestos Removal Contractor prior to redevelopment works. |
|                                    | Level 4, Southern & eastern wings, Storage/linen cupboards, Ceiling             | Fibre cement    | Non-friable            | Low        | 2 m <sup>2</sup> | Due for re-inspection & AMP update.<br>Remove by a Class B licensed Asbestos Removal Contractor prior to redevelopment works. |

| Report Available                   | Location                                                                                                           | Material        | Friable or Non-friable | Risk Level | Extent          | Comments/Recommendations                                                                                                      |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------|-----------------|------------------------|------------|-----------------|-------------------------------------------------------------------------------------------------------------------------------|
| Yes – NAA<br>Ref: SN0042:<br>47909 | Level 3, Kitchen service duct, Pipe work                                                                           | Pipe insulation | Friable                | Medium     | 3 linear metres | Due for re-inspection & AMP update.<br>Remove by a Class A licensed Asbestos Removal Contractor prior to redevelopment works. |
|                                    | Level 3, Kitchen service duct, Pipe work                                                                           | Rope insulation | Friable                | Medium     | 1 linear metre  | Due for re-inspection & AMP update.<br>Remove by a Class A licensed Asbestos Removal Contractor prior to redevelopment works. |
|                                    | Level 3, Fire hydrant upper cupboard adjacent to fire hose No. 11074 (southern area adjacent to kitchen, Pipe work | Pipe insulation | Friable                | Medium     | 3 linear metres | Due for re-inspection & AMP update.<br>Remove by a Class A licensed Asbestos Removal Contractor prior to redevelopment works. |
|                                    | Level 3, Service duct adjacent to electrical cupboard No. 32                                                       | Pipe insulation | Friable                | Medium     | 3 linear metres | Due for re-inspection & AMP update.<br>Remove by a Class A licensed Asbestos Removal Contractor prior to redevelopment works. |
|                                    | Level 3, Southern wing, Cleaners cupboard, Ceiling                                                                 | Fibre cement    | Non-friable            | Low        | 6m <sup>2</sup> | Due for re-inspection & AMP update.<br>Remove by a Class B licensed Asbestos Removal Contractor prior to redevelopment works. |
|                                    | Level 3, Male toilets service duct, Pipe work                                                                      | Pipe insulation | Friable                | Medium     | 3 linear metres | Due for re-inspection & AMP update.<br>Remove by a Class A licensed Asbestos Removal Contractor prior to redevelopment works. |
|                                    | Level 2, Kitchen service duct, Pipe work                                                                           | Pipe insulation | Friable                | Medium     | 3 linear metres | Due for re-inspection & AMP update.<br>Remove by a Class A licensed Asbestos Removal Contractor prior to redevelopment works. |

| Report Available                   | Location                                                                | Material        | Friable or Non-friable | Risk Level | Extent          | Comments/Recommendations                                                                                                      |
|------------------------------------|-------------------------------------------------------------------------|-----------------|------------------------|------------|-----------------|-------------------------------------------------------------------------------------------------------------------------------|
| Yes – NAA<br>Ref: SN0042:<br>47909 | Level 2, Kitchen service duct, Pipe work                                | Rope insulation | Friable                | Medium     | 1 linear metre  | Due for re-inspection & AMP update.<br>Remove by a Class A licensed Asbestos Removal Contractor prior to redevelopment works. |
|                                    | Level 2, Fire hydrant upper cupboard adjacent to fire hose No. 11067    | Pipe insulation | Friable                | Medium     | 3 linear metres | Due for re-inspection & AMP update.<br>Remove by a Class A licensed Asbestos Removal Contractor prior to redevelopment works. |
|                                    | Level 2, Cleaners cupboard (southern), Ceiling                          | Fibre cement    | Non-friable            | Low        | 6m <sup>2</sup> | Due for re-inspection & AMP update.<br>Remove by a Class B licensed Asbestos Removal Contractor prior to redevelopment works. |
|                                    | Level 2, Service duct adjacent to electrical cupboard No. 30, Pipe work | Pipe insulation | Friable                | Medium     | 3 linear metres | Due for re-inspection & AMP update.<br>Remove by a Class A licensed Asbestos Removal Contractor prior to redevelopment works. |
|                                    | Level 2, Female toilet service duct, Pipe work                          | Pipe insulation | Friable                | Medium     | 3 linear metres | Due for re-inspection & AMP update.<br>Remove by a Class A licensed Asbestos Removal Contractor prior to redevelopment works. |
|                                    | Level 1, Storage room (former kitchen), Service duct, Pipe work         | Pipe insulation | Friable                | Medium     | 3 linear metres | Due for re-inspection & AMP update.<br>Remove by a Class A licensed Asbestos Removal Contractor prior to redevelopment works. |
|                                    | Level 1, Storage room (former kitchen), Service duct, Pipe work         | Rope insulation | Friable                | Medium     | 1 linear metre  | Due for re-inspection & AMP update.<br>Remove by a Class A licensed Asbestos Removal Contractor prior to redevelopment works. |

| Report Available                   | Location                                                                        | Material          | Friable or Non-friable | Risk Level | Extent           | Comments/Recommendations                                                                                                      |
|------------------------------------|---------------------------------------------------------------------------------|-------------------|------------------------|------------|------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Yes – NAA<br>Ref: SN0042:<br>47909 | Level 1, Fire hydrant upper cupboard adjacent to fire hose No. 11208, Pipe work | Pipe insulation   | Friable                | Medium     | 3 linear metres  | Due for re-inspection & AMP update.<br>Remove by a Class A licensed Asbestos Removal Contractor prior to redevelopment works. |
|                                    | Level 1, Cleaners cupboard (southern), Ceiling                                  | Fibre cement      | Non-friable            | Low        | 6m <sup>2</sup>  | Due for re-inspection & AMP update.<br>Remove by a Class B licensed Asbestos Removal Contractor prior to redevelopment works. |
|                                    | Level 1, Service duct 5 adjacent to electrical cupboard No. 23, Pipe work       | Pipe insulation   | Friable                | Medium     | 3 linear metres  | Due for re-inspection & AMP update.<br>Remove by a Class A licensed Asbestos Removal Contractor prior to redevelopment works. |
|                                    | Level 1, Female toilet service duct, Pipe work                                  | Pipe insulation   | Friable                | Medium     | 3 linear metres  | Due for re-inspection & AMP update.<br>Remove by a Class A licensed Asbestos Removal Contractor prior to redevelopment works. |
|                                    | Ground floor, Fire stairwell to northern end, Floor                             | Vinyl floor tiles | Non-friable            | Low        | 20m <sup>2</sup> | Due for re-inspection & AMP update.<br>Remove by a Class B licensed Asbestos Removal Contractor prior to redevelopment works. |
|                                    | Ground floor, Toilet opposite lift, Service duct & ceiling space, Pipe work     | Pipe insulation   | Friable                | Medium     | 6 linear metres  | Due for re-inspection & AMP update.<br>Remove by a Class A licensed Asbestos Removal Contractor prior to redevelopment works. |
|                                    | Ground floor, Toilet opposite lifts, ceiling space, Pipe work                   | Rope insulation   | Friable                | Medium     | 6 linear metres  | Due for re-inspection & AMP update.<br>Remove by a Class A licensed Asbestos Removal Contractor prior to redevelopment works. |

| Report Available                   | Location                                                                               | Material          | Friable or Non-friable | Risk Level | Extent           | Comments/Recommendations                                                                                                      |
|------------------------------------|----------------------------------------------------------------------------------------|-------------------|------------------------|------------|------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Yes – NAA<br>Ref: SN0042:<br>47909 | Ground floor, Kitchen adjoining meeting room storage cupboard opposite stairs, Ceiling | Fibre cement      | Non-friable            | Low        | 2m <sup>2</sup>  | Due for re-inspection & AMP update.<br>Remove by a Class B licensed Asbestos Removal Contractor prior to redevelopment works. |
|                                    | Ground floor, Fire hydrant upper cupboard adjacent to fire hose No. 11195, pipe work   | Pipe insulation   | Friable                | Medium     | 3 linear metres  | Due for re-inspection & AMP update.<br>Remove by a Class A licensed Asbestos Removal Contractor prior to redevelopment works. |
|                                    | Ground floor, service duct adjacent to electrical cupboard No. 32, Pipe work           | Pipe insulation   | Friable                | Medium     | 6 linear metres  | Due for re-inspection & AMP update.<br>Remove by a Class A licensed Asbestos Removal Contractor prior to redevelopment works. |
|                                    | Ground floor, Cleaners cupboard (southern area), Ceiling                               | Fibre cement      | Non-friable            | Low        | 4m <sup>2</sup>  | Due for re-inspection & AMP update.<br>Remove by a Class B licensed Asbestos Removal Contractor prior to redevelopment works. |
|                                    | Ground floor, Southern end, Male toilets, floor covering                               | Vinyl floor tiles | Non-friable            | Low        | 20m <sup>2</sup> | Due for re-inspection & AMP update.<br>Remove by a Class B licensed Asbestos Removal Contractor prior to redevelopment works. |

## Block P

| Report Available                   | Location                                                                                                        | Material     | Friable or Non-friable | Risk Level | Extent            | Comments/Recommendations                                                                                                      |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------|--------------|------------------------|------------|-------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Yes – NAA<br>Ref: SN0042:<br>47909 | Level 1, Library, Ceiling                                                                                       | Fibre cement | Non-friable            | Low        | 150m <sup>2</sup> | Due for re-inspection & AMP update.<br>Remove by a Class B licensed Asbestos Removal Contractor prior to redevelopment works. |
|                                    | Level 1, Seating area opposite library section, Ceiling                                                         | Fibre cement | Non-friable            | Low        | 150m <sup>2</sup> | Due for re-inspection & AMP update.<br>Remove by a Class B licensed Asbestos Removal Contractor prior to redevelopment works. |
|                                    | Level 1, Walkway from Block P to Block C (Interior & exterior), Adjacent to doorway to Block P, Walls & ceiling | Fibre cement | Non-friable            | Low        | 400m <sup>2</sup> | Due for re-inspection & AMP update.<br>Remove by a Class B licensed Asbestos Removal Contractor prior to redevelopment works. |
|                                    | Level 1, Cancer Care Treatment Centre toilets & shower area, Walls                                              | Fibre cement | Non-friable            | Low        | 20m <sup>2</sup>  | Due for re-inspection & AMP update.<br>Remove by a Class B licensed Asbestos Removal Contractor prior to redevelopment works. |
|                                    | Level 1, Cancer Care Office, Kitchen, Walls                                                                     | Fibre cement | Non-friable            | Low        | 10m <sup>2</sup>  | Due for re-inspection & AMP update.<br>Remove by a Class B licensed Asbestos Removal Contractor prior to redevelopment works. |
|                                    | Ground floor to level 1 stairwell, Stairwell, Ceiling to underside of stairwell,                                | Fibre cement | Non-friable            | Low        | 20m <sup>2</sup>  | Due for re-inspection & AMP update.<br>Remove by a Class B licensed Asbestos Removal Contractor prior to redevelopment works. |
|                                    | Ground floor, Office Admin, Photocopier room, North east corner, Ceiling                                        | Fibre cement | Non-friable            | Low        | 2m <sup>2</sup>   | Due for re-inspection & AMP update.<br>Remove by a Class B licensed Asbestos Removal Contractor prior to redevelopment works. |

| Report Available                   | Location                                                                                               | Material     | Friable or Non-friable | Risk Level | Extent            | Comments/Recommendations                                                                                                      |
|------------------------------------|--------------------------------------------------------------------------------------------------------|--------------|------------------------|------------|-------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Yes – NAA<br>Ref: SN0042:<br>47909 | Exterior, Ground floor, Courtyard to subfloor access (northern area adjacent to stairs), Wall paneling | Fibre cement | Non-friable            | Low        | 40m <sup>2</sup>  | Due for re-inspection & AMP update.<br>Remove by a Class B licensed Asbestos Removal Contractor prior to redevelopment works. |
|                                    | Exterior, Rear perimeter of building (northern), Eaves                                                 | Fibre cement | Non-friable            | Low        | 100m <sup>2</sup> | Due for re-inspection & AMP update.<br>Remove by a Class B licensed Asbestos Removal Contractor prior to redevelopment works. |

## Block T - Pathology

| Report Available                   | Location                                                             | Material     | Friable or Non-friable | Risk Level | Extent           | Comments/Recommendations                                                                                                      |
|------------------------------------|----------------------------------------------------------------------|--------------|------------------------|------------|------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Yes – NAA<br>Ref: SN0042:<br>47909 | Exterior, Front entrance verandah, Ceiling & eaves, East to entrance | Fibre cement | Non-friable            | Low        | 10m <sup>2</sup> | Due for re-inspection & AMP update.<br>Remove by a Class B licensed Asbestos Removal Contractor prior to redevelopment works. |
|                                    | Exterior, Rear of building, Surrounding roof perimeter, Eaves        | Fibre cement | Non-friable            | Low        | 40m <sup>2</sup> | Due for re-inspection & AMP update.<br>Remove by a Class B licensed Asbestos Removal Contractor prior to redevelopment works. |
|                                    | Exterior, Western entrance, Eaves                                    | Fibre cement | Non-friable            | Low        | 10m <sup>2</sup> | Due for re-inspection & AMP update.<br>Remove by a Class B licensed Asbestos Removal Contractor prior to redevelopment works. |

## Accident &amp; Emergency

| Report Available | Location | Material | Friable or Non-friable | Risk Level | Extent | Comments/Recommendations                                                                                      |
|------------------|----------|----------|------------------------|------------|--------|---------------------------------------------------------------------------------------------------------------|
| No               | -        | -        | -                      | -          | -      | No asbestos information is held on the building.<br>A full hazmat should be undertaken prior to redevelopment |

## Desktop study of Hazardous Materials Surveys to WHS Regulations 2011

Health Infrastructure

Lismore Base Hospital (Targeted Buildings), Lismore NSW

Appendix B: Risk Assessment Factors

## Risk Assessment Factors - Asbestos

To assess the health risk posed by the presence of asbestos-containing material, all relevant factors must be considered. These factors include:

- ☐ Evidence of physical damage;
- ☐ Evidence of water damage;
- ☐ Proximity of air plenums and direct air stream;
- ☐ Friability of asbestos material;
- ☐ Requirement for access for building operations;
- ☐ Requirement for access for maintenance operations;
- ☐ Likelihood of disturbance of the asbestos material;
- ☐ Accessibility;
- ☐ Exposed surface areas; &
- ☐ Environmental conditions.

These aspects are in turn judged upon; (i) potential for fibre generation, and, (ii) the potential for exposure. Where these factors have indicated that there is a possibility of exposure to airborne fibres, appropriate recommendations for repair, maintenance or abatement of the asbestos-containing materials are made.

## Condition

The condition of the asbestos products identified during the survey is usually reported as either being good or poor.

- ☐ *Good* refers to asbestos materials, which have not been damaged or have not deteriorated.
- ☐ *Fair* refers to the asbestos material having suffered minor cracking or de-surfacing.
- ☐ *Poor* describes asbestos materials, which have been damaged, or their condition has deteriorated over time.

## Friability

The friability of asbestos products describes the ease of which the material can be crumbled, and hence to release fibres.

- ☐ *Friable asbestos* (e.g. limpet beam insulation, pipe lagging) can be easily crumbled and is more hazardous than non-friable asbestos products.
- ☐ *Non-friable asbestos*, commonly known as bonded asbestos, is typically comprised of asbestos fibres tightly bound in a stable non-asbestos matrix.

Examples of non-friable asbestos products include asbestos cement materials (sheeting, pipes etc.), asbestos-containing vinyl floor tiles and electrical backing boards.

## Accessibility/Disturbance Potential

Asbestos products can be classified as having low, medium or high accessibility/disturbance potential.

- ☐ *Low* accessibility describes asbestos products that cannot be easily disturbed, such as materials in building voids, set ceilings etc.
- ☐ *Medium* accessibility describes asbestos products that are visible but normal access is impeded, such as materials behind cladding material or is present in a ceiling space or are height restricted.
- ☐ *High* accessibility asbestos products can be easily accessed or damaged due to their close proximity to personnel, e.g. asbestos cement walls or down pipes.

## Risk Status

The risk factors described above are used to rank the health risk posed by the presence of asbestos containing materials.

- ❑ A *low* risk ranking describes asbestos materials that pose a low health risk to personnel, employees and the general public providing they stay in a stable condition, for example asbestos materials that are in good condition and have low accessibility.
- ❑ A *medium* risk ranking applies to materials that pose an increased risk to people in the area.
- ❑ Asbestos materials that possess a *high* risk ranking pose a high health risk to personnel or the public in the area of the material. Materials with a high risk ranking will also possess a Priority 1 recommendation to manage the asbestos and reduce the risk.

## Priority Rating System for Control Recommendations

The following schedule of risk status priority rating is adopted to assist in the programming of the removal or containment of risks of asbestos materials in the buildings.

### Priority 1: Hazard with High Risk Potential (Red)

Status:- Area has asbestos materials, which are either damaged or are being exposed to continual disturbance. Due to these conditions there is an increased potential for exposure and/or transfer of the material to other parts with continued unrestricted use of this area.

Recommendation:- It is recommended that the area is isolated, air-monitoring be conducted (if relevant) and the asbestos material is promptly removed. After abatement of the asbestos material a re-inspection should be conducted to confirm that the area has been satisfactorily cleared of the material.

### Priority 2: Hazard with Medium Risk Potential (Orange)

Status:- Area has asbestos materials with a potential for disturbance due to the following conditions:

1. Material has been disturbed or damaged and its current condition, while not posing an immediate hazard, is unstable; or
2. The material is accessible and can, when disturbed, presents a short-term exposure risk; or
3. The material could pose an exposure risk if workers are in close proximity.

Recommendation:- Appropriate abatement measures to be taken as soon as is practical (3-6 months). Negligible health risks if materials remain undisturbed under the control of an asbestos materials management plan.

### Priority 3: Hazard with Low Risk Potential (Yellow)

Status:- Area has asbestos materials where:

1. The condition of any friable asbestos material is stable and has a low potential for disturbance; or
2. The asbestos material is in a non-friable condition, however has been damaged, but does not present an exposure risk unless cut, drilled, sanded or otherwise abraded. The damaged bonded material must be removed or repaired by a licensed contractor.

Recommendation:- Negligible health risks if the materials are left undisturbed under the control of an asbestos material management plan. Consider abatement within 12 months of the damaged bonded asbestos materials (e.g. asbestos cement material).

### Priority 4: Hazard with Negligible (very low) Risk Potential (Yellow)

Status:- The asbestos material is in a non-friable form and in good condition. It is most unlikely that the material can be disturbed under normal circumstances. Even if it were subjected to minor disturbance the material poses a negligible health risk.

Recommendation:- These materials should be left and their condition monitored during subsequent reviews.

## Risk Assessment Factors for SMF

Risk assessment factors for Synthetic Mineral Fibre is very similar for asbestos products, where evidence of damage, accessibility, likelihood of disturbance etc is used when assessing SMF materials. Similarly SMF condition, accessibility and risk status headings used above for asbestos can be applied to SMF materials.

There are two basic forms of SMF insulation, bonded and un-bonded.

- ☐ *Bonded* SMF is where adhesives or cements have been applied to the SMF before delivery and the SMF product has a specific shape.
- ☐ *Un-bonded* SMF has no adhesives or cements and the SMF is loose material packed into a package.

Removal of bonded materials is easier and less hazardous than removal of un-bonded SMF material.

## Risk Assessment Factors for Polychlorinated Biphenyls

The handling and disposal of PCBs must be performed in accordance with *The New South Wales Protection Of The Environment Operations Act, 1997*.

The following Personal Protective Equipment should be worn when handling items containing Polychlorinated Biphenyls - nitrile gloves, eye protection, and disposable overalls. The PPE should be worn when removing capacitors from light fittings in case Polychlorinated Biphenyls material leaks from the capacitor housing.

Generally, metal-cased capacitors contain PCBs. Plastic-cased capacitors usually do not. However, all leaking capacitors should be treated as if they contain PCBs unless proven otherwise.

## Risk Assessment Factors for Lead Paint

Lead paint, as defined by the Australian Standard *AS4361.2 – 1998 Guide to Lead Paint Management – Part 2: Residential and Commercial Buildings*, is that which contains in excess of 1% Lead by weight.

Lead carbonate (white lead) was once the main white pigment in paints for houses and public buildings. Paint with lead pigment was manufactured up until the late 1960's, and in 1969 the National Health and Medical Research Council's Uniform Paint Standard was amended to restrict lead content in domestic paint.

Lead in any form is toxic to humans when ingested or inhaled, with repeated transmission of particles cumulating in lead poisoning. Lead paint is assessed based on two potential routes of exposure. Firstly, by the likelihood of inhalation or ingestion by people working in the vicinity of the paint and secondly by the condition of the paint. Paint that is flaking or in poor condition is more likely to be ingested than paint that is in a good, stable condition.

## Desktop study of Hazardous Materials Surveys to WHS Regulations 2011

Health Infrastructure

Lismore Base Hospital (Targeted Buildings), Lismore NSW

Appendix C: General Hazardous Materials Information

## Information on Common Asbestos Materials

Asbestos-containing materials can be classified into the following main categories:-

- ☐ Sprayed or trowelled asbestos materials applied to ceilings, walls and other surfaces for fire-rating purposes. This material is commonly referred to as limpet asbestos.
- ☐ Asbestos-containing insulation on pipes, boilers, tanks, ducts etc. which is often referred to as asbestos lagging.
- ☐ Asbestos cement products, Cementitious or concrete like products.
- ☐ Asbestos paper products, millboard in electrical switchboards or underlaying lining for linoleum or vinyl floor coverings.
- ☐ Asbestos textiles, braided asbestos, rope, tape, gaskets etc (note that rope and millboard are potentially friable).
- ☐ Vinyl tiles, linoleum and vinyl flooring mastic and associated adhesives.
- ☐ Asbestos-containing compounds, gaskets and mastic from mechanical fittings, and roofing membranes.
- ☐ Electrical switchboards containing compressed asbestos tar electrical boards, asbestos cement sheeting, asbestos rope to spark arresters and asbestos millboard from inside auxiliary switchboxes/fuse boards.
- ☐ Roofing sealants, bituminous membranes, tar composites and similar materials were occasionally mixed with asbestos materials.
- ☐ Some office furnishings such as wall partitions may contain an asbestos cement internal lining inside plaster or "Stramit" type panelling. Certain types of older vinyl covered desktops and workbenches may contain an underlying asbestos millboard lining.

### Sprayed Asbestos Materials

Sprayed asbestos or limpet asbestos is most often found on structural steel members to provide a fire-rating. Limpet asbestos is a friable material. Friable materials are those which can easily be crumbled, pulverised or reduced to powder by hand pressure. Limpet asbestos tends to be the most friable of all asbestos-containing materials and can contain relatively high percentage of asbestos (30% - 90%).

Limpet asbestos can slowly release fibres as the materials age i.e. As its friability increases. Direct mechanical damage or excessive machinery vibration can lead to more significant release of airborne asbestos fibres.

### Asbestos-Containing Lagging Materials

Insulation such as lagging usually contains a smaller percentage of asbestos (usually 20% - 50%). Protective jackets on the insulation materials (such as metal jacketing or calico on pipe lagging) prevent asbestos fibre release. Physical damage to the protective jacket however, may lead to the release of respirable fibres. The binding material in the insulation can deteriorate with age rendering it more friable.

### Asbestos Cement Sheeting Materials

Asbestos cement products and asbestos gaskets generally do not present a significant health risk unless they are cut, sanded or otherwise disturbed so as to release asbestos dust. Fibre release due to occasional damage is negligible and thus not a significant health risk. Care must be taken therefore in the removal of asbestos cement products to avoid the release of airborne fibres. Unless analysis of fibro-cement products indicates otherwise, these materials should be considered as containing asbestos.

External asbestos cement claddings become weathered after many years by the gradual loss of cement from the exposed surface. This leaves loosely bound layers enriched with asbestos fibres. In other words, the material becomes more friable through the weathering process.

## Asbestos-Containing Vinyl Products

Vinyl tiles and linoleum flooring manufactured before 1984 may contain asbestos in various quantities in a well-bound cohesive matrix. Asbestos-containing vinyl floor and wall coverings generally do not present a significant health risk unless they are sanded or otherwise mechanically abraded so as to release asbestos dust. Fibre release due to occasional damage is negligible and thus not a significant health risk. Care must be taken therefore, in the removal of asbestos-containing vinyl tiles to avoid the release of airborne fibres. Unless analysis of vinyl tiles and linoleum flooring indicates otherwise, these materials should be considered as containing asbestos. Older bituminous adhesives may also contain asbestos and must be removed as an asbestos process in circumstance where the floor is to be renewed and re-levelled by floor sanding or grinding.

## Asbestos-Containing Gaskets

Gaskets and sealing compounds in equipment, duct work and re-heat air conditioning boxes may contain asbestos. These should be replaced with non-asbestos equivalents during routine maintenance. In addition, asbestos-containing mastic and seals in air handling duct work joints. These usually do not pose a hazard as the asbestos fibres are firmly held within the plastic resinous compound and should be replaced as part of routine maintenance or removed during the demolition of the plant equipment.

## Asbestos Insulation to Re-Heat Boxes

Insulation to internal lining of ductwork sections and electrical re-heat air conditioning boxes generally contain asbestos millboard. These should be replaced with non-asbestos equivalents during routine maintenance.

## Asbestos-Containing Mastics and Sealants

Many mastic and sealant products contain Chrysotile asbestos within the pliable, resinous matrix. The nature of the substrate is such that it does not readily dry out in situ, and therefore the fibres are well bound and pose a low risk.

## Management of Asbestos Hazards

The health effects associated with asbestos exposure are due to the inhalation of airborne respirable asbestos fibres. In general, the asbestos fibres cannot be released to become airborne in significant quantities unless the asbestos-containing material is severely disrupted such as in the case of cutting asbestos cement products with power saws etc.

A range of control measures are available for the abatement of asbestos hazards. The selection of the appropriate control measure is based on the assessment risk for each specific location. These measures include:

- ☐ Leave and maintain in existing condition.
- ☐ Repair and maintain in good condition.
- ☐ Enclose asbestos or synthetic mineral fibre material by providing a barrier such as a box enclosure or steel cladding.
- ☐ Remove by approved methods under controlled conditions.
- ☐ Labelling of asbestos materials that are to remain in situ should be undertaken where practical to ensure that the asbestos materials are not damaged inadvertently by maintenance contractors etc.

## Synthetic Mineral Fibre (SMF)

### General

In the late 1980's the International Agency for Research on Cancer (IARC) evaluated certain SMF materials as being possibly carcinogenic to humans. The similarity in application and appearance to asbestos has resulted in some community concern regarding the health effects associated with exposure to SMF.

Current medical research indicates that the slightly increased risk of lung cancer for workers employed in the early days of rockwool and slagwool manufacture, and workers

in the glasswool sector is not anticipated under present day working conditions. However, acute health effects such as eye, skin and upper respiratory tract irritation may occur with certain SMF products.

Caution is required when handling SMF products in order to minimise disturbance of the materials and subsequent airborne SMF fibre levels. Where SMF materials are to be installed or removed, then suitable controls and appropriate personal protection are to be provided.

It is recommended that the following Code of Practice be closely adhered to for appropriate procedures when handling such materials:

- *WorkSafe Australia Synthetic Mineral Fibre, National Standard & National Code of Practice, May 1990.*

## Polychlorinated Biphenyls (PCBs)

### General

PCBs are usually identified as a colourless to darker coloured oily liquid. PCBs are considered probable carcinogens. They can be absorbed through the skin, inhaled as a vapour or ingested, therefore contact with them should be prevented. They are often found in old transformers and metallised capacitors of fluorescent light fittings. These synthetic compounds are chemically stable, have good insulating properties and do not degrade appreciably over time or with exposure to high temperatures. It is these properties that made PCBs useful in electrical devices.

## Lead-Containing Paint

### General

Lead paint, as defined by the Australian Standard *AS4361.2 – 1998 Guide to Lead Paint Management – Part 2: Residential and Commercial Buildings*, is that which contains in excess of 1% Lead by weight.

Lead carbonate (white lead) was once the main white pigment in paints for houses and public buildings. Paint with lead pigment was manufactured up until the late 1960's, and in 1969 the National Health and Medical Research Council's Uniform Paint Standard was amended to restrict lead content in domestic paint.

Many older Australian homes and buildings still contain lead paint, even though it may be covered with layers of more recent paint. Lead paint was used mainly on exterior surfaces, and to a lesser degree on interior doors plus door and window architraves, especially in undercoats and primers, where concentrations of up to 20% lead content were used. Interior walls weren't commonly painted with paint containing white lead pigment, though some colours did contain red, orange and yellow lead pigments.

All paints manufactured for Australian dwellings from the 1970's onwards have been required to contain less than 1% lead, though higher lead-content industrial paints may have been applied since then to housing and commercial buildings.

Lead in any form is toxic to humans when ingested or inhaled, with repeated transmission of particles cumulating in lead poisoning. Lead paint removal poses two potential avenues of transmission. Firstly by inhalation or ingestion by workers and public in the vicinity of the works, and secondly by the deposition of particles on nearby footpaths, streets or soil where they may be resuspended, tracked into houses or buildings where it can be inhaled or ingested.

## Desktop study of Hazardous Materials Surveys to WHS Regulations 2011

Health Infrastructure

Lismore Base Hospital (Targeted Buildings), Lismore NSW

Appendix D: Previous Hazardous Materials Reports

## Report Details

Report title: Hazardous Buildings Survey Report (Mental Health Buildings)

Job reference number: SN0042:37932

Date: December 2004



# **Hazardous Materials Survey Report**

## **Northern Rivers Area Health Service**

### **Lismore Base Hospital, (Proposed Mental Health & CAMHSNET facility)**



**December 2004**

**Our Ref: SN0042:37932**

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SN0042: SD

37932 Lismore Base Hospital Hazardous Materials Survey Report Dec04 Final

# **Hazardous Materials Survey Report**

## **Northern Rivers Area Health Service**

### **Lismore Base Hospital, (Proposed Mental Health & CAMHSNET facility)**

#### **Executive Summary**

##### **Purpose**

This report presents the findings of a Hazardous Materials Survey conducted at Lismore Base Hospital, NSW. Noel Arnold & Associates Pty Ltd carried out the survey in November-December 2004 at the request of John Lambert of Northern Rivers Area Health Service.

##### **Scope**

Three hospital blocks and eleven cottages adjacent were assessed for the presence of Asbestos, Synthetic Mineral Fibre (SMF), Polychlorinated Biphenyls (PCBs) and Lead-containing Paint prior to planned demolition / relocation works for the proposed Mental Health and CAMHSNET facility.

The survey involved a visual inspection of accessible, representative construction materials and fluorescent light fittings, indicative paint swab testing, and the non-destructive collection and analysis of materials suspected of containing asbestos, of which seventy-four (74) samples were collected during the inspection.

##### **Findings**

###### **Asbestos**

Non-friable asbestos-containing materials were identified in all buildings, primarily being:

- ☐ Fibre-cement sheet eaves, walls or ceiling panelling;
- ☐ Vinyl floor tiles;
- ☐ Bituminous electrical backing boards;

Materials suspected of containing friable asbestos were:

- ☐ Electric re-heat boxes to air-conditioning ductwork (these are commonly lined with asbestos millboard) in Blocks E, F & G, and 60 Hunter Street.

###### **Synthetic Mineral Fibre (SMF)**

Synthetic Mineral Fibre (SMF) products were visually identified in the following areas:

- ☐ Hospital block hot water dispensers, and hot water tanks throughout the site;
- ☐ Suspended ceiling tiles of hospital Block F;
- ☐ Flexible air conditioning duct insulation in ceiling spaces;
- ☐ Batt insulation in ceiling spaces;
- ☐ Silver-foil lined roof insulation in ceiling spaces of hospital Blocks E, F & G.

###### **Polychlorinated Biphenyls (PCBs)**

In conjunction with a hospital electrician, older style fluorescent light fittings were dismantled/inspected. The following have been confirmed to contain PCB-containing metal capacitors.

- ☐ G Block; Workshop Level - Maintenance steel rack corridor – 4 uncovered, long, double-tube fittings;

December 2004

- ❑ G Block; Workshop Level – A total of 7 uncovered, long, single-tube fittings in the plumber's workshop, bolt store, plumber's/carpenter's store No.5 and locker room; &
- ❑ G Block; Workshop Level – Meals room – 4 covered, long, double-tubed fittings.

Older style light fittings not directly examined and identified, or with unconfirmed specifications yet suspected to be PCB-containing were identified in the following areas:

- ❑ F Block; Level 1 Electrical switchboard cupboard – short single-tube fitting;
- ❑ 16 Weaver Street – room adjacent rear entrance – short single-tube fitting.

### Lead Paint

Lead paint surfaces were common throughout most buildings. Lead-containing paint in poor condition was found in:

- ❑ 17 Weaver Street - all exterior paints – doors, frames, eaves, fascias and wall panelling.

### Recommendations

- ❑ All hazardous materials identified must be removed and/or the risk of exposure controlled prior to any demolition works as per NSW *OHS Regulation*, 2001 and AS 2601 *Demolition of Structures*. Removal must be completed by competent, licensed contractors and should be overseen by independent environmental consultants.
- ❑ Occupational hygiene services including air monitoring and visual inspections independent of the removal contractor should be performed in accordance with the above documentation to ensure a high standard of safe, thorough work, and to verify surrounding areas are not contaminated.
- ❑ Prior to relocation / demolition works on 17 Weaver Street, the external paint surfaces on site should undergo quantitative assessment of their lead content to clarify the lead abatement requirements/techniques under the NSW *OH&S Regulation*. The flaking paint may require removal under controlled conditions by licensed contractors to prevent contamination to soil and water.
- ❑ During relocation / demolition works, if any materials suspected of containing asbestos/hazardous material are encountered in the areas, work should cease immediately. An experienced building materials assessor must investigate prior to further works to confirm the status of the material.
- ❑ If future demolition or refurbishment works are undertaken in previously inaccessible areas, works should cease pending further sampling if materials suspected of containing asbestos or unknown materials are encountered.
- ❑ The hospital's asbestos register for buildings remaining in-situ should be maintained through scheduled re-inspection intervals, and a Hazardous Materials Management Plan implemented for controlling those asbestos, SMF, PCBs and lead paint materials remaining on-site.

## Statement of Limitations

This report has been prepared in accordance with the agreement between Northern Rivers Area Health Service and Noel Arnold & Associates Pty Ltd.

Within the limitations of the agreed upon scope of services, this work has been undertaken and performed in a professional manner, in accordance with generally accepted practices, using a degree of skill and care ordinarily exercised by members of its profession and consulting practice. No other warranty, expressed or implied, is made.

This report is solely for the use of Northern Rivers Area Health Service and any reliance on this report by third parties shall be at such party's sole risk and may not contain sufficient information for purposes of other parties or for other uses. This report shall only be presented in full and may not be used to support any other objective than those set out in the report, except where written approval with comments are provided by Noel Arnold & Associates Pty Ltd.

The following should also be noted:

While the survey has attempted to locate all the asbestos containing materials, and as the survey was a visual inspection and sampling process, only those asbestos materials that were physically accessible could be located and identified. Therefore it is possible that materials, which may be concealed within inaccessible areas/voids, may not have been located during the survey. Such inaccessible areas fall into a number of categories.

- ☐ Locations behind locked doors.
- ☐ In set ceilings or wall cavities.
- ☐ Those areas accessible only by dismantling equipment or performing minor localised demolition works.
- ☐ Service shafts, ducts etc., concealed within the building structure.
- ☐ Voids or internal areas of plant, equipment, air-conditioning ducts etc.
- ☐ Totally inaccessible areas such as voids and cavities created and intimately concealed within the building structure. These voids are only accessible during major demolition works.
- ☐ Height restricted areas.

Destructive surveying and sampling techniques were not employed to gain access to those areas listed above. Consequently, without substantial demolition of the building, it is not possible to guarantee that every source of asbestos has been detected.

Therefore prior to any refurbishment works, further investigations should be performed using destructive survey sampling techniques. During the course of normal site works care should be exercised when entering any previously inaccessible areas and it is imperative that work cease pending further sampling if materials suspected of containing asbestos or unknown materials are encountered.

This report is not intended to be used for the purposes of tendering, programming of works, refurbishment works or demolition works unless used in conjunction with a specification detailing the extent of the works. To ensure its contextual integrity, the report must be read in its entirety and should not be copied, distributed or referred to in part only.

# **Hazardous Materials Survey Report**

## **Northern Rivers Area Health Service**

### **Lismore Base Hospital, (Proposed Mental Health & CAMHSNET facility)**

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## 1. Introduction

This report presents the findings of a Hazardous Materials Survey conducted of fourteen (14) buildings at Lismore Base Hospital in Lismore NSW. Simon Day of Noel Arnold & Associates Pty Ltd carried out the survey between Monday 30<sup>th</sup> November and Wednesday 1<sup>st</sup> December 2004 at the request of the Northern Rivers Area Health Service's (NRAHS) Manager of Assets and Capital Works, John Lambert.

## 2. Scope of Work

The Hazardous Materials Survey was commissioned as a prelude to the proposed Lismore Mental Health and CAMHSNET expansion on the site, for the purposes of identifying Asbestos, Synthetic Mineral Fibre (SMF), Polychlorinated Biphenyls (PCBs) and Lead-containing paint in those structures marked for demolition or relocation.

The survey assessed the interior & exterior of the following hospital buildings:

- ☐ E Block (Ex-Day Surgery);
- ☐ F Block (Maintenance);
- ☐ G Block (Cafeteria and Workshops);
- ☐ 20 Weaver Street (Relative's accommodation) – including rear demountables;
- ☐ 17 Weaver Street (Sexual Assault Service); &
- ☐ 60 Hunter Street (Anxiety Management).

Several cottages adjacent to the hospital grounds were assessed as part of the survey, as these are to be resumed as part of the proposed Mental Health facility expansion. These residences were:

- ☐ 7, 9, 11, 16 & 18 Weaver Street; &
- ☐ 52, 56 & 58 Hunter Street.

The survey was conducted during normal business hours. All buildings bar three of the cottages were occupied during the assessment. Peter Kane of NRAHS accompanied Simon Day during parts of the survey, including all of the confined space (ceiling spaces) phase, in accordance with NRAHS and NAA OH&S work practices.

## 3. Site Description

Lismore's Base Hospital is located approximately two kilometres north-east of the town's CBD, at the corner of Uralba and Hunter Streets.

The three hospital blocks surveyed are all double-storey brick structures with metal roofing, constructed between the 1950s and 1970s. Maintenance workshops are housed in the ground floor of all three blocks. E Block has timber wall panelling, and was the ex-day surgery unit. The building had its asbestos 'super-six' roof replaced approximately eight years ago. F Block houses the Maintenance Dept, while G Block is the Cafeteria building.

The eleven cottages range in construction date from the 1920s to the 1950's, most with fibre-cement or timber wall sheeting, and metal roofing. Most are single storey structures, though around half are raised with garage/laundry spaces beneath.

## 4. Methodology

The survey involved a visual inspection of accessible, representative construction materials and fluorescent light fittings, indicative paint swab testing, and the non-destructive collection and analysis of materials suspected of containing asbestos. The following methods were used in the survey:

**Asbestos** - This component of the assessment was carried out in accordance with the guidelines documented in the WorkSafe Australia *Asbestos Code of Practice & Guidance Notes*, 1988. Seventy-four (74) samples of suspected asbestos-containing materials were collected during the survey. These samples were analysed in Noel Arnold & Associates' NATA-accredited laboratory for the presence of asbestos by Polarised Light Microscopy, supplemented with dispersion staining techniques.

**Synthetic Mineral Fibres (SMF)** - This report broadly identifies SMF materials found or suspected of being present during the survey, based on our professional knowledge and experience.

**Polychlorinated Biphenyls (PCBs)** - Representative light fittings suspected of housing PCB-containing capacitors were opened by an accompanying hospital electrician and inspected, with specifications noted for cross-referencing with the (ANZECC) Australian and New Zealand Environment and Conservation Council *Identification of PCB Containing Capacitors* database - 1997.

**Lead Paint** - Representative painted surfaces were tested unobtrusively for the presence of lead using the LeadCheck paint swab method in several locations. This method can detect lead in paint at concentrations of 0.5% and above, and may indicate lead in some paint films as low as 0.2%.

The sampling program was representative of the various types of paints found within the site, concentrating on areas where lead-based paints may have been used (eg. Exterior gloss paints, window and door architraves, skirting boards etc). The objective of lead paint identification in this survey is to highlight the presence of lead-based paints within the building, not to specifically identify or quantify every source of lead-based paint.

### 4.1 Areas Not Accessible/Not Inspected

It is noted that given the constraints of practicable access encountered during the risk assessment surveys, the following areas were not accessed or inspected:

- ☐ inaccessible ceiling spaces;
- ☐ within internal wall partitioning and wall cavities;
- ☐ within lift shaft cavities;
- ☐ inside mechanical equipment; &
- ☐ gaskets, mastics and sealants to pipe work, ductwork, mechanical equipment and construction/expansion joints.

We advise that should future refurbishment, demolition or maintenance operations entail possible disturbance of materials in these locations, further investigation and sampling of specific areas should be conducted as part of an asbestos management and abatement program prior to any works proceeding.

It should be noted that the presence of any residual asbestos insulation and applications on steel members, concrete surfaces, pipe work, equipment and adjacent areas from prior abatement or refurbishment works cannot be ascertained without extensive removal and damage to existing insulation, fittings and finishes.

Other specific areas not accessed or inspected are described in Appendix B.

## 5. Survey Summary

Detailed findings for all asbestos, SMF, PCBs and lead paint products found or suspected in each building are listed in Appendix B's Hazardous Materials Register.

A Hazardous Materials Location Matrix (a quick reference table for checking whether an area on the site contains hazardous materials) follows at the end of this section.

### Asbestos

No friable asbestos materials were positively identified in any of the three hospital blocks or eleven cottages inspected. Materials suspected of containing friable asbestos were:

- ☐ Electric re-heat boxes to air-conditioning ductwork (these are commonly lined with asbestos millboard) in Blocks E, F & G, and 60 Hunter Street.

Bonded (non-friable) asbestos products were identified in all structures surveyed, most in a good condition. Minor damage was noted in some cases, though no materials pose an elevated airborne asbestos risk / control priority at present.

Non-friable asbestos-containing materials were identified in all buildings, primarily being:

- ☐ Fibre-cement sheeting in eaves, walls or ceilings;
- ☐ Vinyl floor tiles in bathrooms;
- ☐ Bituminous electrical backing boards in fuse boxes;

### Synthetic Mineral Fibre (SMF)

Synthetic Mineral Fibre (SMF) products in good condition were found throughout the site. There was no SMF-type debris located on or around any of these items. SMF products were visually identified in the following areas:

- ☐ Hospital block hot water dispensers, and hot water tanks throughout the site;
- ☐ Suspended ceiling tiles in F Block, and stored tiles under E Block;
- ☐ Flexible air conditioning duct insulation in some ceiling spaces;
- ☐ Batt insulation in many ceiling spaces;
- ☐ Silver-foil lined roof insulation in ceiling spaces of hospital Blocks E, F & G, and 17 Weaver Street.

### Polychlorinated Biphenyls (PCBs)

In conjunction with a hospital electrician, older style fluorescent light fittings were dismantled/inspected. The following have been confirmed to house PCB-containing metallised capacitors:

- ☐ G Block; Workshop Level - Maintenance steel rack corridor – 4 uncovered, long, double-tube fittings;
- ☐ G Block; Workshop Level – A total of 7 uncovered, long, single-tube fittings in the plumber's workshop, bolt store, plumber's/carpenter's store No.5 and locker room; &
- ☐ G Block; Workshop Level – Meals room – 4 covered, long, double-tubed fittings.

Older style light fittings not directly examined and identified, or with unconfirmed specifications yet suspected to be PCB-containing were identified in the following areas:

- ☐ F Block; Level 1 Electrical switchboard cupboard – short single-tube fitting;
- ☐ 16 Weaver Street – room adjacent rear entrance – short single-tube fitting.

### Lead Paint

Lead paint surfaces were common throughout most buildings. Lead-containing paint in poor condition was found in:

- ☐ 17 Weaver Street - all exterior paints – doors, frames, eaves, fascias and wall panelling.

## Hazardous Materials Location Matrix

The following matrix is a quick reference guide for understanding whether an area on the site contains hazardous materials.

If a particular hazardous material is present in an area, it is denoted by ✓

|                          | <i>AC walls / ceilings / eaves</i> | <i>Vinyl floor tiles</i> | <i>Electrical boards</i> | <i>SMF</i> | <i>PCBs</i> | <i>Lead Paint</i> |
|--------------------------|------------------------------------|--------------------------|--------------------------|------------|-------------|-------------------|
| <i>E Block</i>           | ✓                                  | -                        | -                        | ✓          | -           | ✓                 |
| <i>F Block</i>           | ✓                                  | -                        | -                        | ✓          | ✓           | ✓                 |
| <i>G block</i>           | ✓                                  | -                        | -                        | ✓          | ✓           | ✓                 |
| <i>52 Hunter St</i>      | ✓                                  | -                        | -                        | ✓          | -           | ✓                 |
| <i>56 Hunter St</i>      | ✓                                  | -                        | ✓                        | ✓          | -           | ✓                 |
| <i>58 Hunter St</i>      | ✓                                  | -                        | -                        | ✓          | -           | ✓                 |
| <i>60 Hunter St</i>      | ✓                                  | ✓                        | -                        | ✓          | -           | ✓                 |
| <i>7 Weaver St</i>       | ✓                                  | ✓                        | ✓                        | ✓          | -           | ✓                 |
| <i>9 Weaver St</i>       | ✓                                  | -                        | -                        | ✓          | -           | ✓                 |
| <i>11, 11A Weaver St</i> | ✓                                  | -                        | -                        | ✓          | -           | ✓                 |
| <i>16 Weaver St</i>      | ✓                                  | -                        | ✓                        | ✓          | ✓           | ✓                 |
| <i>17 Weaver St</i>      | ✓                                  | -                        | -                        | ✓          | -           | ✓                 |
| <i>18 Weaver St</i>      | ✓                                  | -                        | ✓                        | ✓          | -           | ✓                 |
| <i>20 Weaver St</i>      | ✓                                  | -                        | -                        | ✓          | -           | ✓                 |

## 6. Recommendations

### 6.1 Asbestos Materials

- ❑ When demolition or refurbishment works are required in those areas where asbestos-containing materials were identified, licensed asbestos personnel should remove the material prior to such works. Any asbestos removal works should be carried out in accordance with Parts 8.7, 10 and 11 of the *Occupational Health & Safety Regulation*, 2001 and following the guidelines of Worksafe Australia's *Asbestos Code of Practice*, 1988. Refer to Appendix E for general information on asbestos removal procedures.
- ❑ Occupational hygiene services including air monitoring and visual inspections independent of the removal contractor should be performed in accordance with the above documentation to ensure a high standard of safe, thorough work, and to verify surrounding areas are not contaminated.
- ❑ During relocation / demolition works, if any materials suspected of containing asbestos material are encountered in the areas, work should cease immediately. An experienced building materials assessor must investigate prior to further works to confirm the status of the material.
- ❑ If future demolition or refurbishment works are undertaken in previously inaccessible areas, works should cease pending further sampling if materials suspected of containing asbestos or unknown materials are encountered.
- ❑ The hospital's asbestos register for buildings remaining in-situ should be maintained through scheduled re-inspection intervals, and a Hazardous Materials Management Plan implemented for controlling hazardous materials remaining on-site.

### 6.2 Synthetic Mineral Fibre (SMF)

#### 6.2.1 Demolition/Refurbishment Works

It is our recommendation that confirmed SMF materials that may be damaged during refurbishment or demolition works be removed appropriately in a controlled manner prior to the planned works. Due to the similarity in control measures required for SMF and asbestos removal, a licensed asbestos removal contractor should undertake these works.

Please refer to Appendix F for further details on SMF removal procedures.

Prior to refurbishment or removal of plant or equipment suspected of containing SMF materials (such as above the lining of the roof), further investigation of their contents should be undertaken. In order to prevent the release of and exposure to any potentially hazardous materials, personnel wearing appropriate Personal Protective Equipment should undertake these works in a controlled environment. It is recommended an environmental consultant be present to enable appropriate materials sampling, to ascertain the extent of potential hazardous materials and to identify appropriate waste removal procedures.

#### 6.2.2 In situ materials

There was no SMF-type debris located on or around any of the materials identified as or suspected of containing SMF material. Whilst all SMF products appeared to be in good condition, periodic re-assessment of these materials on the hospital's site as they deteriorate/age as part of a Hazardous Materials Management Plan would be prudent.

### 6.3 Polychlorinated Biphenyls (PCBs)

#### 6.3.1 Maintenance/Refurbishment/Demolition Works

Any maintenance works associated with the fluorescent light-fittings that have not had their PCB status confirmed should be approached with caution. Handling precautions such as wearing nitrile gloves, disposable overalls and a face shield may be required, especially if there is evidence of substances leaking within a fitting (eg brown staining).

For refurbishment or demolition works involving PCBs-containing light fittings, please note these materials are classified as a Class 9 'dangerous good'. As such, there are strict

regulations for the storage (steel drums / containers), handling (see above), transportation (personnel must be adequately trained in spill containment, be provided with appropriate PPE and equipment to deal with a spill) and disposal (with written EPA approval).

Please refer to Appendix G for further details on PCBs removal procedures.

The document "Polychlorinated Biphenyl (PCB) Chemical Control Order 1997" found at <http://www.environment.nsw.gov.au/resources/pcbcco1997.pdf> can also assist in safe compliance with the statutory requirements.

#### 6.3.2 In situ materials

Prior to demolition works involving light fittings of unconfirmed PCB-status, removal of and additional laboratory analysis of their capacitors can provide confirmation of their status.

#### 6.3.3 Re-assessment as per a Management Plan

For other hospital light fittings suspected of or confirmed to contain PCBs that appear to be leak-free at present, it is strongly advised periodic re-assessment of their condition is undertaken as they deteriorate/age, as part of a Hazardous Materials Management Plan.

### 6.4 Lead Paint

#### 6.4.1 Refurbishment Works

Under Part 7.6 of the *NSW Occupational Health & Safety Regulation, 2001a* controller of premises must ensure that contamination by lead is confined to the area in which the lead process is carried out. A lead process includes machine sanding or buffing of surfaces coated with paint containing more than 1% of lead by weight.

Considering the age of all the buildings in this assessment, it is likely that all painted surfaces where lead-based paints may have been used (eg. Exterior gloss paints, window and door architraves, skirting boards etc) contain lead, at least in the lower, earlier coats.

These items should not be reused unless stripped by licensed personnel under controlled conditions, or future users are made aware of the lead-content and the appropriate control measures necessary to prevent future human and environmental contamination from dust generated by sanding and cutting during renovations.

This applies to 17 Weaver Street in particular, whose exterior painted surfaces are in poor condition. Prior to relocation/demolition work, the flaking lead paint found on the building's external walls, eaves, fascias and frames may require removal under controlled conditions by licensed contractors, so as to prevent any soil /water contamination.

A quantitative assessment of those paint surfaces which returned a positive result from the indicative swab method employed in this survey can clarify the lead abatement requirements/techniques under the *NSW OH&S Regulation*. The sampling procedure would involve site personnel removing a 25mm square cross-section of paint from each location, and further laboratory analysis to determine the percentage of lead content by weight.

Please refer to Appendix H for further details on lead paint removal procedures.

Further documents that should be adhered to when working with lead-based paints are:

- *National Code of Practice for the Control and Safe Use of Inorganic Lead at Work*, National Occupational Health and Safety Commission.
- *Australian Standard AS4361.2-1998 Guide to Lead Paint Management – Part 2: Residential and Commercial Buildings*

**Hazardous Materials Survey Report**  
**Northern Rivers Area Health Service**  
**Lismore Base Hospital,**  
**(Proposed Mental Health & CAMHSNET facility)**  
**Appendix A: Site Map**



**Hazardous Materials Survey Report**  
**Northern Rivers Area Health Service**  
**Lismore Base Hospital,**  
**(Proposed Mental Health & CAMHSNET facility)**  
**Appendix B: Hazardous Materials Register**

- ☐ All findings of the report are contained in this appendix: Hazardous Materials Register.
- ☐ A summary of the significant findings is contained in Section 5.
- ☐ The table below outlines the layout of the tabulated Hazardous Materials Register and the information presented.

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## Hazardous Materials Register

Lismore Base Hospital (Proposed new Mental Health & CAMHSNET facility)

Date: Mon 29<sup>th</sup> Nov - Wed 1<sup>st</sup> Dec2004  
Assessed by: S. Day

E Block

### Asbestos Materials

| Location<br>Item Description<br>Comments                                                                                             | Sample No.            | Sample Status    | Photo No. | Extent           | Condition    | Friability  | Disturb. Potential | Risk Status | Re-inspect Date | Control Priority | Control Recommendation                                      |
|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------|-----------|------------------|--------------|-------------|--------------------|-------------|-----------------|------------------|-------------------------------------------------------------|
| <b>Exterior</b>                                                                                                                      |                       |                  |           |                  |              |             |                    |             |                 |                  |                                                             |
| Eaves (All sides) & Southern porch ceilings<br>Peach-painted grey compressed fibre-cement sheet material                             | E Block-01            | Positive         | -         | 80m <sup>2</sup> | Good         | Non-Friable | Low                | Low         | Dec 2007        | 3                | Removal by licensed contractor prior to building demolition |
| Walkway to B Block – wall panels below windows<br>Beige-painted grey compressed fibre-cement sheet material                          | E Block-02            | Positive         | -         | 8m <sup>2</sup>  | Minor Damage | Non-Friable | Med                | Low         | Dec 2007        | 3                | Removal by licensed contractor prior to building demolition |
| Walkway to B Block – ceiling/eaves<br>White/peach-painted fibre-cement sheet material                                                | E Block-03            | Negative         | -         | -                | -            | -           | -                  | -           | -               | -                | -                                                           |
| Ground Level, west - alcove adjacent B Block walkway (motorcycle parking) – north wall<br>Unpainted grey fibre-cement sheet material | E Block-04            | Positive         | -         | 6m <sup>2</sup>  | Minor Damage | Non-Friable | Med                | Low         | Dec 2007        | 3                | Removal by licensed contractor prior to building demolition |
| Ground Level, west – wall adjacent alcove<br>Beige-painted grey fibre-cement sheet material                                          | E Block-05            | Positive         | -         | 2m <sup>2</sup>  | Good         | Non-Friable | Med                | Low         | Dec 2007        | 3                | Removal by licensed contractor prior to building demolition |
| <b>Interior, Level 1 (Ex-Day Surgery)</b>                                                                                            |                       |                  |           |                  |              |             |                    |             |                 |                  |                                                             |
| Male Toilet, Wall sheeting behind tiles<br>Gold-grey fibre-cement sheet material                                                     | E Block-06            | Negative         | -         | -                | -            | -           | -                  | -           | -               | -                | -                                                           |
| Female Toilet, Wall sheeting behind tiles<br>Gold-grey fibre-cement sheet material                                                   | Similar to E Block-06 | Assumed Negative | -         | -                | -            | -           | -                  | -           | -               | -                | -                                                           |

| Location<br>Item Description<br>Comments                                                                                                   | Sample No.            | Sample Status      | Photo No. | Extent           | Condition    | Friability      | Disturb. Potential | Risk Status | Re-inspect Date | Control Priority | Control Recommendation                                                                 |
|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------------|-----------|------------------|--------------|-----------------|--------------------|-------------|-----------------|------------------|----------------------------------------------------------------------------------------|
| Staff change room, Shower, toilet area – lower wall panelling<br>Grey-coated grey compressed fibre-cement sheet material                   | E Block-07            | Positive           | -         | 40m <sup>2</sup> | Good         | Non-Friable     | Med                | Low         | Dec 2007        | 3                | Removal by licensed contractor prior to building demolition                            |
| Staff change room, Shower, toilet area – upper wall panelling<br>Beige-painted grey fibre-cement sheet material                            | E Block-08            | Positive           | -         | 40m <sup>2</sup> | Good         | Non-Friable     | Low                | Low         | Dec 2007        | 3                | Removal by licensed contractor prior to building demolition                            |
| Staff lounge room, Distribution board ward 9 cupboard - wall panelling<br>Grey compressed fibre-cement sheet material                      | E Block-09            | Positive           | 2         | 4m <sup>2</sup>  | Minor Damage | Non-Friable     | Med                | Low         | Dec 2007        | 3                | Removal by licensed contractor prior to building demolition                            |
| Throughout – Air conditioning ductwork, re-heat coil insulation panels                                                                     | Not Sampled           | Suspected Positive | -         | ?m <sup>2</sup>  | Not known    | Suspect Friable | Low                | Med         | Dec 2007        | 3                | Laboratory analysis of reheat unit insulation prior to demolition / re-use of ductwork |
| Throughout – floor<br>Pale mustard flexible vinyl sheeting                                                                                 | E Block-10            | Negative           | -         | -                | -            | -               | -                  | -           | -               | -                | -                                                                                      |
| <b>Interior, Ground Level (workshops)</b>                                                                                                  |                       |                    |           |                  |              |                 |                    |             |                 |                  |                                                                                        |
| Painter's workshop (3 bays) - walls<br>Pale pink, blue-painted gold-grey smooth fibre-cement sheet material                                | E Block-11            | Negative           | -         | -                | -            | -               | -                  | -           | -               | -                | -                                                                                      |
| Painter's workshop (3 bays) - ceilings<br>Cream-painted gold-grey smooth fibre-cement sheet material)                                      | Similar to E Block-11 | Assumed Negative   | -         | -                | -            | -               | -                  | -           | -               | -                | -                                                                                      |
| Electrician's workshop, East & west bays - walls<br>Beige/pale blue- painted grey compressed fibre-cement sheet material                   | E Block-12            | Positive           | -         | 80m <sup>2</sup> | Good         | Non-Friable     | Med                | Low         | Dec 2007        | 3                | Removal by licensed contractor prior to building demolition                            |
| Electrician's workshop, East bay – added-on wall panel below north wall desk<br>Beige-painted gold-grey smooth fibre-cement sheet material | E Block-13            | Negative           | -         | -                | -            | -               | -                  | -           | -               | -                | -                                                                                      |

| Location<br>Item Description<br>Comments                                                                                         | Sample No.            | Sample Status    | Photo No. | Extent | Condition | Friability | Disturb. Potential | Risk Status | Re-inspect Date | Control Priority | Control Recommendation |
|----------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------|-----------|--------|-----------|------------|--------------------|-------------|-----------------|------------------|------------------------|
| Electrician's workshop, West bay – north wall, rear of small parts shelves<br>Gold-grey smooth fibre-cement sheet material       | Similar to E Block-13 | Assumed Negative | -         | -      | -         | -          | -                  | -           | -               | -                | -                      |
| Electrician's workshop, West bay – south wall at end of west entrance passageway<br>Gold-grey smooth fibre-cement sheet material | Similar to E Block-13 | Assumed Negative | -         | -      | -         | -          | -                  | -           | -               | -                | -                      |
| Electrician's workshop, East bay, south - Workbench-tops<br>Black brittle vinyl tile material                                    | E Block-14            | Negative         | -         | -      | -         | -          | -                  | -           | -               | -                | -                      |

### Synthetic Mineral Fibre (SMF)

| Location<br>Description, Comments                | Photo No. | Form                                 | Risk Status | Control Recommendation                                      |
|--------------------------------------------------|-----------|--------------------------------------|-------------|-------------------------------------------------------------|
| Ceiling Space                                    |           |                                      |             |                                                             |
| Metal roof lining (silver-foil covered sheeting) | -         | Bonded rolled blanket                | Low         | Removal by licensed asbestos contractor prior to demolition |
| Ceiling insulation                               | -         | Bonded batts                         | Low         |                                                             |
| Flexible air conditioning ductwork insulation    | -         | Bonded rolled blanket                | Low         |                                                             |
| Level 1 (Ex-Day Surgery)                         |           |                                      |             |                                                             |
| Utility Room, auto flusher/sanitizer             | -         | Internal bonded insulation           | Low         | Removal by licensed asbestos contractor prior to demolition |
| Kitchen, Zip Miniboil hot water dispenser        | -         | Suspected internal bonded insulation | Low         |                                                             |
| Sub-floor space (Adjacent B Block walkway)       |           |                                      |             |                                                             |
| Stored ceiling tiles                             | -         | Compressed fibrous tile              | Low         | Removal by licensed asbestos contractor prior to demolition |

## Polychlorinated Biphenyls (PCBs)

| Location<br>Description                          | Photo No. | Specifications                                                                          | Approx. no. of<br>fittings | Comments                                                                                                                                    |
|--------------------------------------------------|-----------|-----------------------------------------------------------------------------------------|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Level 1 (Ex-Day Surgery)</b>                  |           |                                                                                         |                            |                                                                                                                                             |
| Double-tubed recessed fluorescent light fittings | -         | Plessey 2583 2.8uF +/- 5%, 440V AC<br>50-60 Hz, IEC252 1975 non-metallised<br>capacitor | Throughout                 | Specs not contained in ANZECC<br>database. Unlikely to contain PCBs<br>due to non-metallised casing, later<br>electrical standard reference |

## Lead Paint

| Location<br>Description, Colour             | Photo No. | Lead Swab Results  | Condition | Control Recommendations             |
|---------------------------------------------|-----------|--------------------|-----------|-------------------------------------|
| <b>Exterior</b>                             |           |                    |           |                                     |
| Door and window frames<br>White gloss       | -         | Top layer positive | Good      | See Section 6.4 for further details |
| Walls<br>Horizontal timber panelling, Beige | 1         | Top layer positive | Fair      | See Section 6.4 for further details |



**Photograph 1:** E Block exterior, showing lead-containing horizontal wall panelling paint



**Photograph 2:** E Block Level 1, Staff lounge – distribution board ward 9 cupboard – showing asbestos-containing wall panels

## Hazardous Materials Register

Lismore Base Hospital (Proposed new Mental Health & CAMHSNET facility)

Date: Mon 29<sup>th</sup> Nov - Wed 1<sup>st</sup> Dec 2004  
Assessed by: S. Day

F Block

### Asbestos Materials

| Location<br>Item Description<br>Comments                                                                        | Sample No.            | Sample Status      | Photo No. | Extent           | Condition | Friability      | Disturb. Potential | Risk Status | Re-inspect Date | Control Priority | Control Recommendation                                                                 |
|-----------------------------------------------------------------------------------------------------------------|-----------------------|--------------------|-----------|------------------|-----------|-----------------|--------------------|-------------|-----------------|------------------|----------------------------------------------------------------------------------------|
| <b>Exterior</b>                                                                                                 |                       |                    |           |                  |           |                 |                    |             |                 |                  |                                                                                        |
| Eaves & porch ceilings<br>Peach-painted gold-grey compressed fibre-cement sheet material                        | F Block-01            | Positive           | -         | 55m <sup>2</sup> | Good      | Non-Friable     | Low                | Low         | Dec 2007        | 3                | Removal by licensed contractor prior to building demolition                            |
| <b>Interior, Ceiling Space</b>                                                                                  |                       |                    |           |                  |           |                 |                    |             |                 |                  |                                                                                        |
| Throughout – Air conditioning ductwork, re-heat coil insulation panels                                          | Not Sampled           | Suspected Positive | -         | ?m <sup>2</sup>  | Not known | Suspect Friable | Low                | Med         | Dec 2007        | 3                | Laboratory analysis of reheat unit insulation prior to demolition / re-use of ductwork |
| <b>Interior, Level 1</b>                                                                                        |                       |                    |           |                  |           |                 |                    |             |                 |                  |                                                                                        |
| Toilet, Wall lining behind tiles<br>Concrete                                                                    | F Block-02            | Negative           | -         | -                | -         | -               | -                  | -           | -               | -                | -                                                                                      |
| Toilet, ceiling<br>White-painted gold-grey compressed fibre-cement sheet material                               | F Block-03            | Positive           | -         | 5m <sup>2</sup>  | Good      | Non-Friable     | Low                | Low         | Dec 2007        | 3                | Removal by licensed contractor prior to building demolition                            |
| Stationery & switchboard cupboards- ceiling<br>Grey fibre-cement sheet material (painted in stationery section) | Similar to F Block-03 | Assumed Positive   | -         | 1m <sup>2</sup>  | Good      | Non-Friable     | Low                | Low         | Dec 2007        | 3                | Removal by licensed contractor prior to building demolition                            |
| Northern office adjacent toilet – ceiling (western section)<br>White-painted smooth fibre-cement sheet material | Similar to F Block-03 | Assumed Positive   | -         | 12m <sup>2</sup> | Good      | Non-Friable     | Low                | Low         | Dec 2007        | 3                | Removal by licensed contractor prior to building demolition                            |

| Location<br>Item Description<br>Comments                                                           | Sample No.            | Sample Status    | Photo No. | Extent            | Condition | Friability  | Disturb. Potential | Risk Status | Re-inspect Date | Control Priority | Control Recommendation                                      |
|----------------------------------------------------------------------------------------------------|-----------------------|------------------|-----------|-------------------|-----------|-------------|--------------------|-------------|-----------------|------------------|-------------------------------------------------------------|
| <b>Interior, Ground Level</b>                                                                      |                       |                  |           |                   |           |             |                    |             |                 |                  |                                                             |
| Office adjacent north entrance – ceiling<br>Cream-painted braided fibre-cement sheet material      | Similar to F Block-03 | Assumed Positive | -         | 15m <sup>2</sup>  | Good      | Non-Friable | Low                | Low         | Dec 2007        | 3                | Removal by licensed contractor prior to building demolition |
| Toilet, ceiling<br>Cream-painted braided fibre-cement sheet material                               | Similar to F Block-03 | Assumed Positive | -         | 5m <sup>2</sup>   | Good      | Non-Friable | Low                | Low         | Dec 2007        | 3                | Removal by licensed contractor prior to building demolition |
| Southern workshop (lathe area), ceiling<br>Cream-painted braided fibre-cement sheet material       | Similar to F Block-03 | Assumed Positive | -         | 12m <sup>2</sup>  | Good      | Non-Friable | Low                | Low         | Dec 2007        | 3                | Removal by licensed contractor prior to building demolition |
| Southern workshop, storage cupboard - ceiling<br>Cream-painted braided fibre-cement sheet material | Similar to F Block-03 | Assumed Positive | -         | 0.5m <sup>2</sup> | Good      | Non-Friable | Low                | Low         | Dec 2007        | 3                | Removal by licensed contractor prior to building demolition |

### Synthetic Mineral Fibre (SMF)

| Location<br>Description, Comments                | Photo No. | Form                    | Risk Status | Control Recommendation                                      |
|--------------------------------------------------|-----------|-------------------------|-------------|-------------------------------------------------------------|
| Ceiling Space                                    |           |                         |             |                                                             |
| Metal roof lining (silver-foil covered sheeting) | -         | Bonded rolled blanket   | Low         | Removal by licensed asbestos contractor prior to demolition |
| Ceiling insulation                               | -         | Bonded batts            | Low         |                                                             |
| Flexible air conditioning ductwork insulation    | -         | Bonded rolled blanket   | Low         |                                                             |
| First Floor                                      |           |                         |             |                                                             |
| Goods lift; lining of wall & access door         | -         | Compressed fibrous tile | Low         | Removal by licensed asbestos contractor prior to demolition |
| Ground Floor                                     |           |                         |             |                                                             |
| Main electrician's office, ceiling               | -         | Compressed fibrous tile | Low         | Removal by licensed asbestos contractor prior to demolition |
| South-east office (Warren Page), ceiling         | -         | Compressed fibrous tile | Low         |                                                             |

### Polychlorinated Biphenyls (PCBs)

| Location<br>Description                                              | Photo No. | Specifications                        | Approx. no. of fittings | Comments                                                               |
|----------------------------------------------------------------------|-----------|---------------------------------------|-------------------------|------------------------------------------------------------------------|
| <b>Level 1</b>                                                       |           |                                       |                         |                                                                        |
| Switchboard cupboard<br>Short single-tubed fluorescent light fitting | -         | Not inspected – fitting was energised | One                     | Possible PCBs indicated by age of fitting. Inspect prior to demolition |

### Lead Paint

| Location<br>Description, Colour       | Photo No. | Lead Swab Results    | Condition | Control Recommendations             |
|---------------------------------------|-----------|----------------------|-----------|-------------------------------------|
| <b>Exterior</b>                       |           |                      |           |                                     |
| Door and window frames<br>White gloss | -         | Upper layer positive | Good      | See Section 6.4 for further details |

## Hazardous Materials Register

Lismore Base Hospital (Proposed new Mental Health & CAMHSNET facility)

Date: Mon 29<sup>th</sup> Nov - Wed 1<sup>st</sup> Dec2004  
Assessed by: S. Day

### G Block

### Asbestos Materials

| Location<br>Item Description<br>Comments                                                                                     | Sample No.            | Sample Status    | Photo No. | Extent           | Condition     | Friability  | Disturb. Potential | Risk Status | Re-inspect Date | Control Priority | Control Recommendation                                      |
|------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------|-----------|------------------|---------------|-------------|--------------------|-------------|-----------------|------------------|-------------------------------------------------------------|
| <b>Exterior</b>                                                                                                              |                       |                  |           |                  |               |             |                    |             |                 |                  |                                                             |
| Wall/fence in driveway between G Block and Nesbitt House<br>White-painted gold-grey fibre-cement sheet material              | G Block-12            | Positive         | -         | 45m <sup>2</sup> | Good          | Non-Friable | Med                | Low         | Dec 2007        | 3                | Removal by licensed contractor prior to building demolition |
| Eaves & porch ceilings<br>White-painted gold-grey fibre-cement sheet material                                                | G Block-13            | Negative         | -         | -                | -             | -           | -                  | -           | -               | -                | -                                                           |
| Wall panels above windows<br>Grey fibre-cement sheet material                                                                | Similar to G Block-10 | Assumed Negative | -         | -                | -             | -           | -                  | -           | -               | -                | -                                                           |
| Wall panels below windows of accommodation units No.5 & 6<br>White/pale grey-painted gold-grey fibre-cement sheet material   | G Block-14            | Negative         | -         | -                | -             | -           | -                  | -           | -               | -                | -                                                           |
| Outdoor dining patio, laundry corridor – horizontal wall cladding<br>Pale grey-painted gold-grey fibre-cement sheet material | G Block-10            | Negative         | -         | -                | -             | -           | -                  | -           | -               | -                | -                                                           |
| Outdoor dining patio, laundry corridor – ceiling<br>White-painted smooth fibre-cement sheet material                         | Similar to G Block-13 | Assumed Negative | -         | -                | -             | -           | -                  | -           | -               | -                | -                                                           |
| <b>Interior, Ceiling Space</b>                                                                                               |                       |                  |           |                  |               |             |                    |             |                 |                  |                                                             |
| A/C alcove above lobby area – debris<br>Grey fibre-cement sheet material                                                     | Similar to G Block-12 | Assumed Positive | -         | <1m <sup>2</sup> | Slight Damage | Non-Friable | Med                | Low         | Dec 2007        | 3                | Removal by licensed contractor prior to building demolition |

| Location<br>Item Description<br>Comments                                                            | Sample No.            | Sample Status      | Photo No. | Extent            | Condition     | Friability      | Disturb. Potential | Risk Status | Re-inspect Date | Control Priority | Control Recommendation                                                                 |
|-----------------------------------------------------------------------------------------------------|-----------------------|--------------------|-----------|-------------------|---------------|-----------------|--------------------|-------------|-----------------|------------------|----------------------------------------------------------------------------------------|
| Throughout – Air conditioning ductwork, re-heat coil insulation panels                              | Not Sampled           | Suspected Positive | -         | ?m <sup>2</sup>   | Not known     | Suspect Friable | Low                | Med         | Dec 2007        | 3                | Laboratory analysis of reheat unit insulation prior to demolition / re-use of ductwork |
| <b>Interior, Cafeteria Level</b>                                                                    |                       |                    |           |                   |               |                 |                    |             |                 |                  |                                                                                        |
| Men's Toilets - cubicle partitions<br>Mustard-painted grey compressed fibre-cement sheet material   | G Block-07            | Positive           | -         | 3m <sup>2</sup>   | Good          | Non-Friable     | Med                | Low         | Dec 2007        | 3                | Removal by licensed contractor prior to building demolition                            |
| Women's Toilets - cubicle partitions<br>Mustard-painted grey compressed fibre-cement sheet material | Similar to G Block-07 | Assumed Positive   | -         | 3m <sup>2</sup>   | Good          | Non-Friable     | Med                | Low         | Dec 2007        | 3                | Removal by licensed contractor prior to building demolition                            |
| Men's Toilets - walls<br>White (foyer), beige (toilets)-painted gold-grey fibre-cement sheeting     | G Block-08            | Negative           | -         | -                 | -             | -               | -                  | -           | -               | -                | -                                                                                      |
| Women's Toilets - walls<br>White (foyer), beige (toilets)-painted gold-grey fibre-cement sheeting   | Similar to G Block-08 | Assumed Negative   | -         | -                 | -             | -               | -                  | -           | -               | -                | -                                                                                      |
| Distribution Board cupboard – ceiling and ceiling space walls<br>Gold-grey fibre-cement sheeting    | G Block-12            | Positive           | -         | 5m <sup>2</sup>   | Slight Damage | Non-Friable     | Med                | Low         | Dec 2007        | 3                | Removal by licensed contractor prior to building demolition                            |
| Kitchen/South Lobby – dividing wall<br>Cream/beige-painted gold-grey fibre-cement sheet material    | G Block-09            | Positive           | -         | 30m <sup>2</sup>  | Good          | Non-Friable     | Med                | Low         | Dec 2007        | 3                | Removal by licensed contractor prior to building demolition                            |
| Meeting Room – walls<br>Cream/beige-painted smooth fibre-cement sheet material                      | Similar to G Block-09 | Assumed Positive   | -         | 30m <sup>2</sup>  | Good          | Non-Friable     | Med                | Low         | Dec 2007        | 3                | Removal by licensed contractor prior to building demolition                            |
| Food Preparation area – walls<br>Cream/beige-painted smooth fibre-cement sheet material             | Similar to G Block-09 | Assumed Positive   | -         | 100m <sup>2</sup> | Good          | Non-Friable     | Med                | Low         | Dec 2007        | 3                | Removal by licensed contractor prior to building demolition                            |
| Food Store – walls<br>Cream/beige-painted smooth fibre-cement sheet material                        | Similar to G Block-09 | Assumed Positive   | -         | 15m <sup>2</sup>  | Good          | Non-Friable     | Med                | Low         | Dec 2007        | 3                | Removal by licensed contractor prior to building demolition                            |

| Location<br>Item Description<br>Comments                                                                      | Sample No.            | Sample Status      | Photo No. | Extent          | Condition | Friability      | Disturb. Potential | Risk Status | Re-inspect Date | Control Priority | Control Recommendation                                                                 |
|---------------------------------------------------------------------------------------------------------------|-----------------------|--------------------|-----------|-----------------|-----------|-----------------|--------------------|-------------|-----------------|------------------|----------------------------------------------------------------------------------------|
| Main Cafeteria area – Air conditioning ductwork, re-heat coil insulation panels                               | Not Sampled           | Suspected Positive | -         | ?m <sup>2</sup> | Not known | Suspect Friable | Low                | Med         | Dec 2007        | 3                | Laboratory analysis of reheat unit insulation prior to demolition / re-use of ductwork |
| Accommodation Unit No.5, bathroom – walls<br>Cream-painted gold-grey fibre-cement sheet material              | G Block-11            | Negative           | -         | -               | -         | -               | -                  | -           | -               | -                | -                                                                                      |
| Accommodation Unit No.6, bathroom – walls<br>Cream-painted gold-grey fibre-cement sheet material              | Similar to G Block-11 | Assumed Negative   | -         | -               | -         | -               | -                  | -           | -               | -                | -                                                                                      |
| <b>Interior, Workshop Level</b>                                                                               |                       |                    |           |                 |           |                 |                    |             |                 |                  |                                                                                        |
| Plumber's Workshop, welding bench – insulated bench-top panel & back-plate<br>Gold-grey fibre-cement sheeting | G Block-02            | Negative           | -         | -               | -         | -               | -                  | -           | -               | -                | -                                                                                      |
| Main workshop, adjacent stereo system – floor tiles<br>Marbled black flexible vinyl material                  | G Block-03            | Negative           | -         | -               | -         | -               | -                  | -           | -               | -                | -                                                                                      |
| Maintenance steel rack corridor – hole-punched mottled grey/white/pink flexible vinyl material roll           | G Block-04            | Negative           | -         | -               | -         | -               | -                  | -           | -               | -                | -                                                                                      |
| Carpenter's workshop annex – wall lining<br>Cream-painted gold-grey fibre-cement sheet material               | G Block-05            | Negative           | -         | -               | -         | -               | -                  | -           | -               | -                | -                                                                                      |
| Meals Room & Locker Room – floor<br>Marbled black flexible vinyl tiles                                        | G Block-06A           | Negative           | -         | -               | -         | -               | -                  | -           | -               | -                | -                                                                                      |
| Meals Room & Locker Room – skirting<br>Black rubbery vinyl sheeting                                           | G Block-06B           | Negative           | -         | -               | -         | -               | -                  | -           | -               | -                | -                                                                                      |

## Synthetic Mineral Fibre (SMF)

| Location<br>Description, Comments                                                                         | Photo No. | Form                                 | Risk Status | Control Recommendation                                      |
|-----------------------------------------------------------------------------------------------------------|-----------|--------------------------------------|-------------|-------------------------------------------------------------|
| Ceiling Space                                                                                             |           |                                      |             |                                                             |
| Metal roof lining (silver-foil covered sheeting)                                                          | -         | Bonded rolled blanket                | Low         | Removal by licensed asbestos contractor prior to demolition |
| Flexible air conditioning ductwork insulation                                                             | -         | Bonded rolled blanket                | Low         |                                                             |
| Cafeteria Level                                                                                           |           |                                      |             |                                                             |
| Kitchen, Zip Hydroboil hot water dispenser                                                                | -         | Suspected internal bonded insulation | Low         | Removal by licensed asbestos contractor prior to demolition |
| Meals area, Water cooler                                                                                  | -         | Suspected internal bonded insulation | Low         |                                                             |
| Workshop Level                                                                                            |           |                                      |             |                                                             |
| Maintenance steel rack corridor,<br>Rheem 242400 400L hot water tank,<br>Rheem 101160 160L hot water tank | -         | Suspected internal bonded insulation | Low         | Removal by licensed asbestos contractor prior to demolition |
| Maintenance steel rack corridor<br>Silver-foil lined sheet on top shelf                                   | -         | Bonded rolled blanket                | Low         |                                                             |

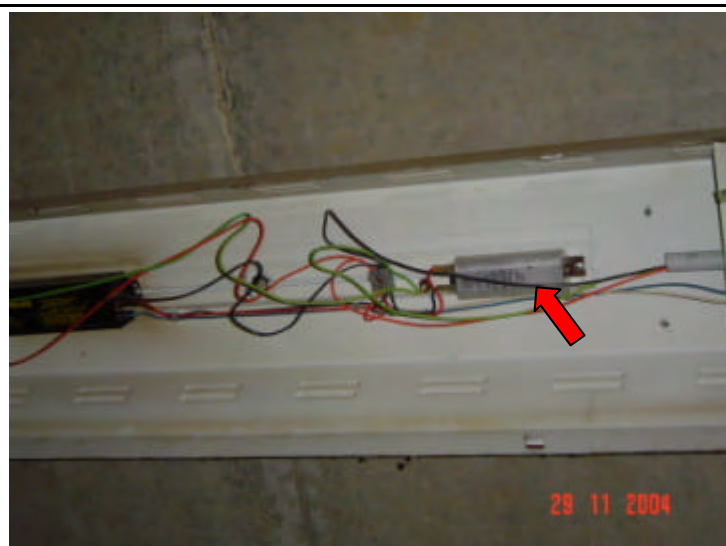
## Polychlorinated Biphenyls (PCBs)

| Location<br>Description                                                                    | Photo No. | Specifications                                                                      | Approx. no. of fittings | Comments                                                           |
|--------------------------------------------------------------------------------------------|-----------|-------------------------------------------------------------------------------------|-------------------------|--------------------------------------------------------------------|
| <b>Workshop Level</b>                                                                      |           |                                                                                     |                         |                                                                    |
| Maintenance workshops<br>Triple-tubed long, uncovered fluorescent light fittings           | -         | No capacitors present                                                               | Throughout              | Does not contain PCBs - No capacitors present                      |
| Maintenance steel rack corridor<br>Double-tubed long, uncovered fluorescent light fittings | 1         | Ducon APD270C 7uF +/-10%<br>BS2818:1961 flat cylindrical metallised paper capacitor | 4                       | Contains PCBs. Positive status confirmed on P29 of ANZECC database |

| Location<br>Description                                                          | Photo<br>No. | Specifications                                                                      | Approx. no. of fittings                                                                                                       | Comments                                                           |
|----------------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| Maintenance workshops<br>Single-tubed long, uncovered fluorescent light fittings | -            | Ducon APD240C 4uF +/-10%<br>BS2818:1961 flat cylindrical metallised paper capacitor | 4 in Plumber's workshop,<br>1 in Bolt store,<br>1 in Plumber's/carpenter's store No.5 &<br>1 in Locker room behind meals room | Contains PCBs. Positive status confirmed on P28 of ANZECC database |
| Meals Room<br>Double-tubed long, covered fluorescent light fittings              | 2            | Ducon 5P31A 3.1uF +/-5%<br>BS2818:1961 flat cylindrical metallised paper capacitor  | 4                                                                                                                             | Contains PCBs. Positive status confirmed on P26 of ANZECC database |

## Lead Paint

| Location<br>Description, Colour                                    | Photo No. | Lead Swab Results     | Condition | Control Recommendations             |
|--------------------------------------------------------------------|-----------|-----------------------|-----------|-------------------------------------|
| <b>Workshop Level</b>                                              |           |                       |           |                                     |
| Exterior; workshops entry doors<br>White gloss                     | 2         | Lower layers positive | Fair      | See Section 6.4 for further details |
| Toilets, shower area; entry & cubicle doors, frames<br>White gloss | -         | Upper layer positive  | Good      | See Section 6.4 for further details |



**Photograph 1:** G Block, Workshop level maintenance steel rack corridor - showing PCBs-containing fluorescent light fittings



**Photograph 2:** G Block exterior – showing lead-containing paint on workshop entry doors

## Hazardous Materials Register

Lismore Base Hospital (Proposed new Mental Health & CAMHSNET facility)

52 Hunter Street

Date: Mon 29<sup>th</sup> Nov - Wed 1<sup>st</sup> Dec 2004  
Assessed by: S. Day

### Asbestos Materials

| Location<br>Item Description<br>Comments                                                                                                | Sample No.     | Sample<br>Status    | Photo<br>No. | Extent | Condition        | Friability  | Disturb.<br>Potential | Risk<br>Status | Re-inspect<br>Date | Control<br>Priority | Control Recommendation                                                                                                                                                        |
|-----------------------------------------------------------------------------------------------------------------------------------------|----------------|---------------------|--------------|--------|------------------|-------------|-----------------------|----------------|--------------------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Exterior                                                                                                                                |                |                     |              |        |                  |             |                       |                |                    |                     |                                                                                                                                                                               |
| Eaves & porch ceilings<br>Beige-painted gold-grey compressed<br>fibre-cement sheet material                                             | 52 Hunter-03   | Positive            | -            | 50m²   | Good             | Non-Friable | Low                   | Low            | Dec 2007           | 3                   | If building is to be demolished,<br>remove by licensed<br>contractor prior to demolition<br><br>If building is to be sold & re-located,<br>material must not be<br>disturbed  |
| Walls – lining behind faux-brick façade<br>Gold-grey fibre-cement sheet material                                                        | 52 Hunter-04   | Positive            | -            | 150m²  | Slight<br>Damage | Non-Friable | Low                   | Low            | Dec 2007           | 3                   |                                                                                                                                                                               |
| Garage/beneath house – toilet area wall<br>lining<br>Grey compressed fibre-cement sheet<br>material                                     | 52 Hunter-02   | Positive            | -            | 25m²   | Good             | Non-Friable | Med                   | Low            | Dec 2007           | 3                   |                                                                                                                                                                               |
| Interior                                                                                                                                |                |                     |              |        |                  |             |                       |                |                    |                     |                                                                                                                                                                               |
| North treatment annex – ceiling<br>White (top coat) green (lower coat)-<br>painted gold-grey compressed fibre-<br>cement sheet material | 52 Hunter-01   | Positive            | -            | 12m²   | Good             | Non-Friable | Low                   | Low            | Dec 2007           | 3                   | If building is to be demolished,<br>remove by licensed<br>contract or prior to demolition<br><br>If building is to be sold & re-located,<br>material must not be<br>disturbed |
| East toilet annex – North triangular wall<br>sheet, beneath roof<br>Cream-painted dimpled fibre-cement<br>sheet material                | Not<br>Sampled | Assumed<br>Positive | -            | <1m²   | Good             | Non-Friable | Low                   | Low            | Dec 2007           | 3                   |                                                                                                                                                                               |

### Synthetic Mineral Fibre (SMF)

| Location<br>Description, Comments         | Photo No. | Form                                 | Risk Status | Control Recommendation                                      |
|-------------------------------------------|-----------|--------------------------------------|-------------|-------------------------------------------------------------|
| <b>Ceiling Space/Exterior</b>             |           |                                      |             |                                                             |
| Ceiling insulation (details not recorded) | -         | Suspected bonded batts               | Low         | Removal by licensed asbestos contractor prior to demolition |
| Beneath house, hot water pipe insulation  | -         | Wrapped rolled blanket               | Low         |                                                             |
| Hot water tank (details not recorded)     | -         | Suspected internal bonded insulation | Low         |                                                             |

### Polychlorinated Biphenyls (PCBs)

| Location<br>Description                                         | Photo No. | Specifications | Approx. no. of fittings | Comments |
|-----------------------------------------------------------------|-----------|----------------|-------------------------|----------|
| No suspected PCBs-containing fluorescent light fittings present |           |                |                         |          |

### Lead Paint

| Location<br>Description, Colour | Photo No. | Lead Swab Results | Condition         | Control Recommendations                                                                                                                                |
|---------------------------------|-----------|-------------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Exterior</b>                 |           |                   |                   |                                                                                                                                                        |
| Eaves, frames, fascias et c     | -         | Data not recorded | Data not recorded | Lower coats of exterior gloss paints, window and door architraves, skirting boards etc. likely to contain lead.<br>See Section 6.4 for further details |

## Hazardous Materials Register

Lismore Base Hospital (Proposed new Mental Health & CAMHSNET facility)

56 Hunter Street

Date: Mon 29<sup>th</sup> Nov - Wed 1<sup>st</sup> Dec 2004  
Assessed by: S. Day

### Asbestos Materials

| Location<br>Item Description<br>Comments                                                                                                                | Sample No.   | Sample Status    | Photo No. | Extent             | Condition     | Friability  | Disturb. Potential | Risk Status | Re-inspect Date | Control Priority | Control Recommendation                                                                                                                                        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------------|-----------|--------------------|---------------|-------------|--------------------|-------------|-----------------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Exterior</b>                                                                                                                                         |              |                  |           |                    |               |             |                    |             |                 |                  |                                                                                                                                                               |
| Eaves & porch ceilings<br>Material not recorded                                                                                                         | Not Sampled  | Assumed Positive | -         | 50m <sup>2</sup>   | Good          | Non-Friable | Low                | Low         | Dec 2007        | 3                | If building is to be demolished, remove by licensed contractor prior to demolition<br>If building is to be sold & re-located, material must not be disturbed. |
| Fuse box - electrical backing board<br>Black bituminous, fibrous material                                                                               | Not Sampled  | Assumed Positive | -         | <1m <sup>2</sup>   | Good          | Non-Friable | Low                | Low         | Dec 2007        | 3                |                                                                                                                                                               |
| Sub-floor space – debris at front of house<br>Grey fibre-cement sheet material                                                                          | Not Sampled  | Assumed Positive | -         | 1m <sup>2</sup>    | Slight Damage | Non-Friable | Low                | Low         | Dec 2007        | 3                |                                                                                                                                                               |
| Front of house, walls 'stucco' finish<br>Beige-painted grey concrete, black bituminous material                                                         | 56 Hunter-03 | Negative         | 2         | -                  | -             | -           | -                  | -           | -               | -                | -                                                                                                                                                             |
| <b>Interior</b>                                                                                                                                         |              |                  |           |                    |               |             |                    |             |                 |                  |                                                                                                                                                               |
| Front porch – decorative wall panels above windows & door (may extend to floor behind wood panelling)<br>White-painted grey fibre-cement sheet material | 56 Hunter-01 | Positive         | -         | 2-10m <sup>2</sup> | Good          | Non-Friable | Low                | Low         | Dec 2007        | 3                | If building is to be demolished, remove by licensed contractor prior to demolition<br>If building is to be sold & re-located, material must not be disturbed. |
| Front living room – fireplace lining<br>Grey concrete                                                                                                   | 56 Hunter-02 | Negative         | -         | -                  | -             | -           | -                  | -           | -               | -                |                                                                                                                                                               |
| Bathroom, walls – lower section<br>Grey spider pattern coated smooth fibre-cement sheet material                                                        | Not Sampled  | Assumed Positive | -         | 25m <sup>2</sup>   | Good          | Non-Friable | Med                | Low         | Dec 2007        | 3                | If building is to be demolished, remove by licensed contractor prior to demolition<br>If building is to be sold & re-located, material must not be disturbed  |
| Kitchen, walls – behind stove and sink<br>Green spider pattern coated smooth fibre-cement sheet material                                                | Not Sampled  | Assumed Positive | 1         | 10m <sup>2</sup>   | Good          | Non-Friable | Med                | Low         | Dec 2007        | 3                |                                                                                                                                                               |

### Synthetic Mineral Fibre (SMF)

| Location<br>Description, Comments | Photo No. | Form         | Risk Status | Control Recommendation                                      |
|-----------------------------------|-----------|--------------|-------------|-------------------------------------------------------------|
| <b>Ceiling Space</b>              |           |              |             |                                                             |
| Ceiling insulation                | -         | Bonded batts | Low         | Removal by licensed asbestos contractor prior to demolition |
| Ceiling insulation                | -         | Loose balls  | Med         |                                                             |

### Polychlorinated Biphenyls (PCBs)

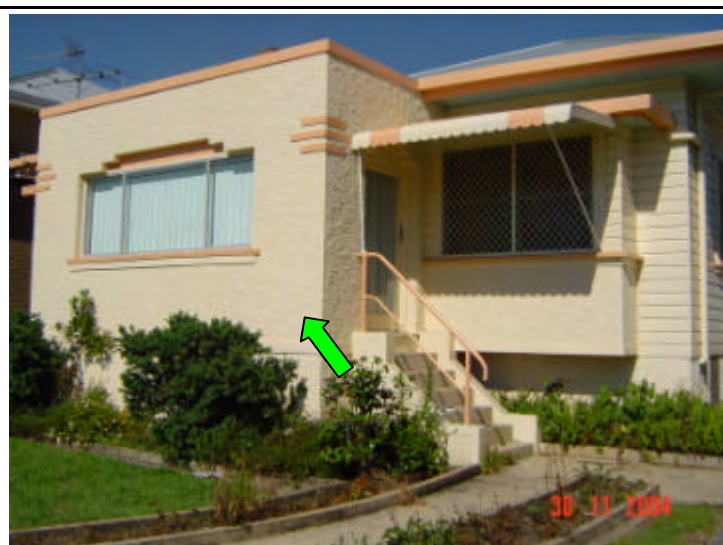
| Location<br>Description                                        | Photo No. | Specifications | Approx. no. of fittings | Comments |
|----------------------------------------------------------------|-----------|----------------|-------------------------|----------|
| No suspected PCB-containing fluorescent light fittings present |           |                |                         |          |

### Lead Paint

| Location<br>Description, Colour         | Photo No. | Lead Swab Results    | Condition | Control Recommendations                                                                                                                                |
|-----------------------------------------|-----------|----------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Exterior</b>                         |           |                      |           |                                                                                                                                                        |
| House gloss paints & garage wall paints | -         | Top layers negative  | Good      | Lower coats of exterior gloss paints, window and door architraves, skirting boards etc. likely to contain lead.<br>See Section 6.4 for further details |
| Rear kitchen door                       | -         | Lower layer positive | Good      |                                                                                                                                                        |



**Photograph 1 :** Kitchen, lower wall panelling behind stove and sink – showing asbestos-containing fibre-cement sheet panels



**Photograph 2 :** Exterior, front of house – showing non asbestos-containing 'stucco' wall finish

## Hazardous Materials Register

Lismore Base Hospital (Proposed new Mental Health & CAMHSNET facility)

58 Hunter Street

Date: Mon 29<sup>th</sup> Nov - Wed 1<sup>st</sup> Dec 2004  
Assessed by: S. Day

### Asbestos Materials

| Location<br>Item Description<br>Comments                                                    | Sample No.   | Sample Status    | Photo No. | Extent | Condition | Friability  | Disturb. Potential | Risk Status | Re-inspect Date | Control Priority | Control Recommendation                                                                                                                                           |
|---------------------------------------------------------------------------------------------|--------------|------------------|-----------|--------|-----------|-------------|--------------------|-------------|-----------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Exterior                                                                                    |              |                  |           |        |           |             |                    |             |                 |                  |                                                                                                                                                                  |
| Eaves & porch ceilings<br>Details not recorded                                              | Not Sampled  | Assumed Positive | -         | 50m²   | Good      | Non-Friable | Low                | Low         | Dec 2007        | 3                | If building is to be demolished, remove by licensed contractor prior to demolition<br><br>If building is to be sold & re-located, material must not be disturbed |
| Interior                                                                                    |              |                  |           |        |           |             |                    |             |                 |                  |                                                                                                                                                                  |
| Bathroom, wall – lower section<br>Beige-painted grey compressed fibre-cement sheet material | 58 Hunter-01 | Positive         | -         | 18m²   | Good      | Non-Friable | Low                | Low         | Dec 2007        | 3                |                                                                                                                                                                  |

### Synthetic Mineral Fibre (SMF)

| Location<br>Description, Comments         | Photo No. | Form                                 | Risk Status | Control Recommendation                                      |
|-------------------------------------------|-----------|--------------------------------------|-------------|-------------------------------------------------------------|
| <b>Ceiling space/exterior</b>             |           |                                      |             |                                                             |
| Ceiling insulation (details not recorded) | -         | Suspected bonded batts               | Low         | Removal by licensed asbestos contractor prior to demolition |
| Hot water tank (details not recorded)     | -         | Suspected internal bonded insulation | Low         |                                                             |

### Polychlorinated Biphenyls (PCBs)

| Location<br>Description                                        | Photo No. | Specifications | Approx. no. of fittings | Comments |
|----------------------------------------------------------------|-----------|----------------|-------------------------|----------|
| No suspected PCB-containing fluorescent light fittings present |           |                |                         |          |

**Lead Paint**

| <b>Location<br/>Description, Colour</b> | <b>Photo No.</b> | <b>Lead Swab Results</b>                     | <b>Condition</b> | <b>Control Recommendations</b>      |
|-----------------------------------------|------------------|----------------------------------------------|------------------|-------------------------------------|
| <b>Exterior</b>                         |                  |                                              |                  |                                     |
| House door frames, doors & porch posts  | -                | Top layers negative<br>Lower layers positive | Fair             | See Section 6.4 for further details |
| Shed doors, frames, panelling           | -                | Top layers negative<br>Lower layers positive | Fair             | See Section 6.4 for further details |

## Hazardous Materials Register

Lismore Base Hospital (Proposed new Mental Health & CAMHSNET facility)

60 Hunter Street

Date: Mon 29<sup>th</sup> Nov - Wed 1<sup>st</sup> Dec 2004  
Assessed by: S. Day

### Asbestos Materials

| Location<br>Item Description<br>Comments                                                                                                               | Sample No.   | Sample Status      | Photo No. | Extent           | Condition     | Friability      | Disturb. Potential | Risk Status | Re-inspect Date | Control Priority | Control Recommendation                                                                                                                                           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------------|-----------|------------------|---------------|-----------------|--------------------|-------------|-----------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Exterior</b>                                                                                                                                        |              |                    |           |                  |               |                 |                    |             |                 |                  |                                                                                                                                                                  |
| Eaves & porch ceilings<br>Pale blue, white-painted fibre-cement sheet material                                                                         | Not Sampled  | Assumed Positive   | -         | 60m <sup>2</sup> | Good          | Non-Friable     | Low                | Low         | Dec 2007        | 3                | If building is to be demolished, remove by licensed contractor prior to demolition<br><br>If building is to be sold & re-located, material must not be disturbed |
| Garage/beneath house – rear wash area, wall backing panel<br>White-painted dimpled fibre-cement sheet material                                         | Not Sampled  | Assumed Positive   | -         | 6m <sup>2</sup>  | Slight Damage | Non-Friable     | Med                | Low         | Dec 2007        | 3                |                                                                                                                                                                  |
| Garage/beneath house – front of house (south-west corner) – membrane lining concrete slab<br>Brown fibrous, black bituminous brittle membrane material | 60 Hunter-03 | Negative           | -         | -                | -             | -               | -                  | -           | -               | -                | -                                                                                                                                                                |
| Garage/beneath house – front of house (south-west corner) – on ground<br>Dimpled fibre-cement sheet debris                                             | Not Sampled  | Assumed Positive   | -         | 1m <sup>2</sup>  | Slight Damage | Non-Friable     | Med                | Low         | Dec 2007        | 3                | As described above                                                                                                                                               |
| Garage/beneath house – front of house (south-west corner) – staircase formwork<br>Un-painted gold-grey fibre-cement sheet material                     | 60 Hunter-04 | Negative           | -         | -                | -             | -               | -                  | -           | -               | -                | -                                                                                                                                                                |
| <b>Ceiling Space</b>                                                                                                                                   |              |                    |           |                  |               |                 |                    |             |                 |                  |                                                                                                                                                                  |
| Throughout – Air conditioning ductwork, re-heat coil insulation panels                                                                                 | Not Sampled  | Suspected Positive | -         | ?m <sup>2</sup>  | Not known     | Suspect Friable | Low                | Med         | Dec 2007        | 3                | Laboratory analysis of reheat unit insulation prior to demolition / re-use of ductwork                                                                           |

| Location<br>Item Description<br>Comments                                                                                    | Sample No.              | Sample Status    | Photo No. | Extent              | Condition | Friability  | Disturb. Potential | Risk Status | Re-inspect Date | Control Priority | Control Recommendation                                                                                                                                           |
|-----------------------------------------------------------------------------------------------------------------------------|-------------------------|------------------|-----------|---------------------|-----------|-------------|--------------------|-------------|-----------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Interior</b>                                                                                                             |                         |                  |           |                     |           |             |                    |             |                 |                  |                                                                                                                                                                  |
| Bathroom – ceiling space access hatch & hatch cubicle walls<br>Dimpled fibre-cement sheet material                          | Not Sampled             | Assumed Positive | -         | 3m <sup>2</sup>     | Good      | Non-Friable | Low                | Low         | Dec 2007        | 3                | If building is to be demolished, remove by licensed contractor prior to demolition<br><br>If building is to be sold & re-located, material must not be disturbed |
| Bathroom – walls (top section – though likely to extend down to floor)<br>Lilac-painted dimpled fibre-cement sheet material | Not Sampled             | Assumed Positive | -         | 15-40m <sup>2</sup> | Good      | Non-Friable | Low                | Low         | Dec 2007        | 3                |                                                                                                                                                                  |
| Bathroom – walls (lower section)<br>Marbled green coated smooth fibre-cement sheet material                                 | Not Sampled             | Assumed Positive | -         | 25m <sup>2</sup>    | Good      | Non-Friable | Low                | Low         | Dec 2007        | 3                |                                                                                                                                                                  |
| Bathroom – ceiling<br>Cream-painted dimpled fibre-cement sheet material                                                     | Not Sampled             | Assumed Positive | -         | 10m <sup>2</sup>    | Good      | Non-Friable | Low                | Low         | Dec 2007        | 3                |                                                                                                                                                                  |
| Rear toilet - floor<br>Grey brittle vinyl tile material                                                                     | 60 Hunter-01A           | Positive         | -         | 1m <sup>2</sup>     | Good      | Non-Friable | Med                | Low         | Dec 2007        | 3                |                                                                                                                                                                  |
| Rear toilet - floor<br>Pink brittle vinyl tile material                                                                     | 60 Hunter-01B           | Positive         | -         | 1m <sup>2</sup>     | Good      | Non-Friable | Med                | Low         | Dec 2007        | 3                |                                                                                                                                                                  |
| Rear toilet - floor<br>Black bituminous & amber adhesive materials attached to underside of tiles                           | 60 Hunter-01C           | Negative         | -         | -                   | -         | -           | -                  | -           | -               | -                | -                                                                                                                                                                |
| Main meeting room, hallway, clinical psychologists offices, rear office – no asbestos materials identified                  |                         |                  |           |                     |           |             |                    |             |                 |                  |                                                                                                                                                                  |
| “Whiteboard” room, adjacent kitchen – walls (lower section)<br>Lilac-painted dimpled fibre-cement sheet material            | 60 Hunter-02            | Positive         | -         | 16m <sup>2</sup>    | Good      | Non-Friable | Med                | Low         | Dec 2007        | 3                | If building is to be demolished, remove by licensed contractor prior to demolition<br><br>If building is to be sold & re-located, material must not be disturbed |
| Kitchen – walls<br>Lilac-painted dimpled fibre-cement sheet material                                                        | Similar to 60 Hunter-02 | Assumed Positive | -         | 40m <sup>2</sup>    | Good      | Non-Friable | Med                | Low         | Dec 2007        | 3                |                                                                                                                                                                  |
| Kitchen – ceiling<br>White-painted dimpled fibre-cement sheet material                                                      | Similar to 60 Hunter-02 | Assumed Positive | -         | 16m <sup>2</sup>    | Good      | Non-Friable | Low                | Low         | Dec 2007        | 3                |                                                                                                                                                                  |

| Location<br>Item Description<br>Comments                                                                             | Sample No.              | Sample Status    | Photo No. | Extent           | Condition | Friability  | Disturb. Potential | Risk Status | Re-inspect Date | Control Priority | Control Recommendation                                                                                                                                           |
|----------------------------------------------------------------------------------------------------------------------|-------------------------|------------------|-----------|------------------|-----------|-------------|--------------------|-------------|-----------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Northern lounge room, adjacent kitchen & meeting room – walls<br>Lilac-painted dimpled fibre-cement sheet material   | Similar to 60 Hunter-02 | Assumed Positive | -         | 30m <sup>2</sup> | Good      | Non-Friable | Med                | Low         | Dec 2007        | 3                | If building is to be demolished, remove by licensed contractor prior to demolition<br><br>If building is to be sold & re-located, material must not be disturbed |
| Northern lounge room, adjacent kitchen & meeting room – ceiling<br>White-painted dimpled fibre-cement sheet material | Similar to 60 Hunter-02 | Assumed Positive | -         | 24m <sup>2</sup> | Good      | Non-Friable | Low                | Low         | Dec 2007        | 3                |                                                                                                                                                                  |

### Synthetic Mineral Fibre (SMF)

| Location<br>Description, Comments                 | Photo No. | Form                                 | Risk Status | Control Recommendation                                      |
|---------------------------------------------------|-----------|--------------------------------------|-------------|-------------------------------------------------------------|
| <b>Exterior</b>                                   |           |                                      |             |                                                             |
| Beneath house – rear<br>Rheem 125L hot water tank | -         | Suspected internal bonded insulation | Low         | Removal by licensed asbestos contractor prior to demolition |
| <b>Ceiling space</b>                              |           |                                      |             |                                                             |
| Ceiling insulation                                | -         | Bonded batts                         | Low         | Removal by licensed asbestos contractor prior to demolition |
| Flexible air conditioning ductwork insulation     | -         | Bonded rolled blanket                | Low         |                                                             |

### Polychlorinated Biphenyls (PCBs)

| Location<br>Description                                        | Photo No. | Specifications | Approx. no. of fittings | Comments |
|----------------------------------------------------------------|-----------|----------------|-------------------------|----------|
| No suspected PCB-containing fluorescent light fittings present |           |                |                         |          |

### Lead Paint

| Location<br>Description, Colour               | Photo No. | Lead Swab Results   | Condition | Control Recommendations             |
|-----------------------------------------------|-----------|---------------------|-----------|-------------------------------------|
| Exterior wall panelling & window, door frames | -         | Top layers positive | Fair      | See Section 6.4 for further details |

## Hazardous Materials Register

Lismore Base Hospital (Proposed new Mental Health & CAMHSNET facility)

7 Weaver Street

Date: Mon 29<sup>th</sup> Nov - Wed 1<sup>st</sup> Dec2004  
Assessed by: S. Day

### Asbestos Materials

| Location<br>Item Description<br>Comments                                                                                            | Sample No.            | Sample Status      | Photo No. | Extent | Condition | Friability  | Disturb. Potential | Risk Status | Re-inspect Date | Control Priority | Control Recommendation                                                                                                                                           |
|-------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------------|-----------|--------|-----------|-------------|--------------------|-------------|-----------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Exterior                                                                                                                            |                       |                    |           |        |           |             |                    |             |                 |                  |                                                                                                                                                                  |
| Eaves<br>Cream-painted fibre-cement sheet material                                                                                  | Not Sampled           | Assumed Positive   | -         | 50m²   | Good      | Non-Friable | Low                | Low         | Dec 2007        | 3                | If building is to be demolished, remove by licensed contractor prior to demolition<br><br>If building is to be sold & re-located, material must not be disturbed |
| Beneath house – packing material between pylons and joists<br>Fibre-cement sheet material                                           | Not Sampled           | Suspected Positive | -         | 2m²    | Good      | Non-Friable | Low                | Low         | Dec 2007        | 3                |                                                                                                                                                                  |
| Carport - walls<br>Beige-painted fibre-cement sheet material                                                                        | Similar to 7 Weav -01 | Assumed Positive   | -         | 18m²   | Good      | Non-Friable | Med                | Low         | Dec 2007        | 3                |                                                                                                                                                                  |
| Shed - walls<br>Pink-painted fibre-cement sheet material                                                                            | Similar to 7 Weav -01 | Assumed Positive   | -         | 15m²   | Good      | Non-Friable | Low                | Low         | Dec 2007        | 3                |                                                                                                                                                                  |
| Fuse box - electrical backing board<br>Black bituminous, fibrous material                                                           | Not Sampled           | Assumed Positive   | -         | <1m²   | Good      | Non-Friable | Low                | Low         | Dec 2007        | 3                |                                                                                                                                                                  |
| Interior                                                                                                                            |                       |                    |           |        |           |             |                    |             |                 |                  |                                                                                                                                                                  |
| Bedrooms, living room, hallway – no asbestos materials identified                                                                   |                       |                    |           |        |           |             |                    |             |                 |                  |                                                                                                                                                                  |
| Bathroom – walls (top section – though likely to extend down to floor)<br>Cream-painted grey compressed fibre-cement sheet material | 7 Weav -01            | Positive           | -         | 18m²   | Good      | Non-Friable | Low                | Low         | Dec 2007        | 3                | If building is to be demolished, remove by licensed contractor prior to demolition<br><br>If building is to be sold & re-located, material must not be disturbed |
| Bathroom – ceiling<br>Cream-painted dimpled fibre-cement sheet material                                                             | Similar to 7 Weav -01 | Assumed Positive   | -         | 10m²   | Good      | Non-Friable | Low                | Low         | Dec 2007        | 3                |                                                                                                                                                                  |

| Location<br>Item Description<br>Comments                                      | Sample No.              | Sample Status    | Photo No. | Extent           | Condition | Friability  | Disturb. Potential | Risk Status | Re-inspect Date | Control Priority | Control Recommendation                                                                                                                                                      |
|-------------------------------------------------------------------------------|-------------------------|------------------|-----------|------------------|-----------|-------------|--------------------|-------------|-----------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Bathroom - floor<br>Black brittle vinyl tile material                         | 7 Weav - 02A            | Positive         | -         | 5m <sup>2</sup>  | Good      | Non-Friable | Med                | Low         | Dec 2007        | 3                | As described below                                                                                                                                                          |
| Bathroom - floor<br>Amber adhesive material attached to underside of tiles    | 7 Weav - 02B            | Negative         | -         | -                | -         | -           | -                  | -           | -               | -                | -                                                                                                                                                                           |
| Laundry/toilet – walls<br>Beige-painted dimpled fibre-cement sheet material   | Similar to 7 Weav -01   | Assumed Positive | -         | 30m <sup>2</sup> | Good      | Non-Friable | Med                | Low         | Dec 2007        | 3                | <p>If building is to be demolished, remove by licensed contractor prior to demolition</p> <p>If building is to be sold &amp; re-located, material must not be disturbed</p> |
| Laundry/toilet – ceiling<br>White-painted dimpled fibre-cement sheet material | Similar to 7 Weav -01   | Assumed Positive | -         | 12m <sup>2</sup> | Good      | Non-Friable | Med                | Low         | Dec 2007        | 3                |                                                                                                                                                                             |
| Toilet - floor<br>Black, pink brittle vinyl tile material                     | Similar to 7 Weav - 02A | Assumed Positive | -         | 4m <sup>2</sup>  | Good      | Non-Friable | Med                | Low         | Dec 2007        | 3                |                                                                                                                                                                             |
| Rear covered patio - walls<br>Beige-painted fibre-cement sheet material       | Similar to 7 Weav -01   | Assumed Positive | -         | 25m <sup>2</sup> | Good      | Non-Friable | Med                | Low         | Dec 2007        | 3                |                                                                                                                                                                             |
| Rear covered patio - ceiling<br>White-painted fibre-cement sheet material     | Similar to 7 Weav -01   | Assumed Positive | -         | 20m <sup>2</sup> | Good      | Non-Friable | Low                | Low         | Dec 2007        | 3                |                                                                                                                                                                             |

### Synthetic Mineral Fibre (SMF)

| Location<br>Description, Comments                                               | Photo No. | Form                                 | Risk Status | Control Recommendation                                      |
|---------------------------------------------------------------------------------|-----------|--------------------------------------|-------------|-------------------------------------------------------------|
| <b>Exterior</b>                                                                 |           |                                      |             |                                                             |
| Side of house<br>Vulcan 661160 160L hot water tank                              | -         | Suspected internal bonded insulation | Low         | Removal by licensed asbestos contractor prior to demolition |
| <b>Ceiling space</b> (not entered due to presence of red-back spiders at hatch) |           |                                      |             |                                                             |
| Ceiling insulation                                                              | -         | Suspected bonded batts               | Low         | Removal by licensed asbestos contractor prior to demolition |

**Polychlorinated Biphenyls (PCBs)**

| Location<br>Description                                        | Photo No. | Specifications | Approx. no. of<br>fittings | Comments |
|----------------------------------------------------------------|-----------|----------------|----------------------------|----------|
| No suspected PCB-containing fluorescent light fittings present |           |                |                            |          |

**Lead Paint**

| Location<br>Description, Colour            | Photo No. | Lead Swab Results | Condition            | Control Recommendations                                                                                                                                         |
|--------------------------------------------|-----------|-------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eaves, frames, fascias, wall panelling etc | -         | Data not recorded | Data not<br>recorded | Lower coats of exterior gloss paints,<br>window and door architraves,<br>skirting boards etc. likely to contain<br>lead.<br>See Section 6.4 for further details |

## Hazardous Materials Register

Lismore Base Hospital (Proposed new Mental Health & CAMHSNET facility)

9 Weaver Street

Date: Mon 29<sup>th</sup> Nov - Wed 1<sup>st</sup> Dec2004  
Assessed by: S. Day

### Asbestos Materials

| Location<br>Item Description<br>Comments                                                                                     | Sample No.            | Sample Status    | Photo No. | Extent | Condition | Friability  | Disturb. Potential | Risk Status | Re-inspect Date | Control Priority | Control Recommendation                                                                                                                                           |
|------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------|-----------|--------|-----------|-------------|--------------------|-------------|-----------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Exterior                                                                                                                     |                       |                  |           |        |           |             |                    |             |                 |                  |                                                                                                                                                                  |
| Eaves & porch ceilings<br>Pale green-painted grey compressed fibre-cement sheet material                                     | 9 Weav -05            | Positive         | -         | 85m²   | Good      | Non-Friable | Low                | Low         | Dec 2007        | 3                | If building is to be demolished, remove by licensed contractor prior to demolition<br><br>If building is to be sold & re-located, material must not be disturbed |
| Front porch –walls (top panels)<br>Cream-painted dimpled fibre-cement sheet material                                         | Similar to 9 Weav -05 | Assumed Positive | -         | 10m²   | Good      | Non-Friable | Low                | Low         | Dec 2007        | 3                |                                                                                                                                                                  |
| Garage - walls<br>Cream/beige-painted fibre-cement sheet material                                                            | Similar to 9 Weav -05 | Assumed Positive | -         | 60m²   | Good      | Non-Friable | Med                | Low         | Dec 2007        | 3                |                                                                                                                                                                  |
| Interior                                                                                                                     |                       |                  |           |        |           |             |                    |             |                 |                  |                                                                                                                                                                  |
| Bedrooms, living room, bathroom, fuse box – no asbestos materials identified                                                 |                       |                  |           |        |           |             |                    |             |                 |                  |                                                                                                                                                                  |
| Kitchen – walls (lower section)<br>Cream-painted gold-grey fibre-cement sheet material                                       | 9 Weav -01            | Positive         | -         | 20m²   | Good      | Non-Friable | Med                | Low         | Dec 2007        | 3                | As described above                                                                                                                                               |
| Kitchen - floor<br>Grey, green and yellow brittle vinyl tiles and associated amber adhesive & grey fibrous backing materials | 9 Weav -02            | Negative         | -         | -      | -         | -           | -                  | -           | -               | -                | -                                                                                                                                                                |
| Laundry – walls (full-length)<br>Beige-painted fibre-cement sheet material                                                   | Similar to 9 Weav -01 | Assumed Positive | -         | 35m²   | Good      | Non-Friable | Med                | Low         | Dec 2007        | 3                | As described above                                                                                                                                               |
| Laundry – walls (sink backing panel)<br>Green spider pattern coated smooth fibre-cement sheet material                       | 9 Weav -03            | Positive         | -         | 3m²    | Good      | Non-Friable | Med                | Low         | Dec 2007        | 3                |                                                                                                                                                                  |

| Location<br>Item Description<br>Comments                                      | Sample No.            | Sample Status    | Photo No. | Extent           | Condition | Friability  | Disturb. Potential | Risk Status | Re-inspect Date | Control Priority | Control Recommendation                                                                                                                                           |
|-------------------------------------------------------------------------------|-----------------------|------------------|-----------|------------------|-----------|-------------|--------------------|-------------|-----------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Laundry – ceiling<br>Blue-painted fibre-cement sheet material                 | Similar to 9 Weav -01 | Assumed Positive | -         | 15m <sup>2</sup> | Good      | Non-Friable | Low                | Low         | Dec 2007        | 3                | If building is to be demolished, remove by licensed contractor prior to demolition<br><br>If building is to be sold & re-located, material must not be disturbed |
| Rear covered porch – walls<br>Beige-painted grey fibre-cement sheet material  | 9 Weav -04            | Positive         | -         | 10m <sup>2</sup> | Good      | Non-Friable | Med                | Low         | Dec 2007        | 3                |                                                                                                                                                                  |
| Rear covered porch – ceiling<br>Blue-painted grey fibre-cement sheet material | Similar to 9 Weav -04 | Assumed Positive | -         | 18m <sup>2</sup> | Good      | Non-Friable | Low                | Low         | Dec 2007        | 3                |                                                                                                                                                                  |

### Synthetic Mineral Fibre (SMF)

| Location<br>Description, Comments                                       | Photo No. | Form                                 | Risk Status | Control Recommendation                                      |
|-------------------------------------------------------------------------|-----------|--------------------------------------|-------------|-------------------------------------------------------------|
| <b>Ceiling space</b>                                                    |           |                                      |             |                                                             |
| No SMF-containing ceiling, pipe or roof insulation materials identified |           |                                      |             |                                                             |
| <b>Interior</b>                                                         |           |                                      |             |                                                             |
| Laundry -<br>HardieDux HDE250 250L hot water tank                       | -         | Suspected internal bonded insulation | Low         | Removal by licensed asbestos contractor prior to demolition |

### Polychlorinated Biphenyls (PCBs)

| Location<br>Description                                        | Photo No. | Specifications | Approx. no. of fittings | Comments |
|----------------------------------------------------------------|-----------|----------------|-------------------------|----------|
| No suspected PCB-containing fluorescent light fittings present |           |                |                         |          |

### Lead Paint

| Location<br>Description, Colour | Photo No. | Lead Swab Results                           | Condition | Control Recommendations             |
|---------------------------------|-----------|---------------------------------------------|-----------|-------------------------------------|
| Kitchen – skirting board        | -         | Top layer negative<br>Lower layers positive | Fair      | See Section 6.4 for further details |
| Rear porch – door frame         | -         | Top layer negative<br>Lower layers positive | Fair      |                                     |

## Hazardous Materials Register

Lismore Base Hospital (Proposed new Mental Health & CAMHSNET facility)

11 & 11A Weaver Street

Date: Mon 29<sup>th</sup> Nov - Wed 1<sup>st</sup> Dec 2004  
Assessed by: S. Day

### Asbestos Materials

| Location<br>Item Description<br>Comments                                                        | Sample No.   | Sample<br>Status | Photo<br>No. | Extent | Condition     | Friability  | Disturb.<br>Potential | Risk<br>Status | Re-inspect<br>Date | Control<br>Priority | Control Recommendation                                                                                                                                           |
|-------------------------------------------------------------------------------------------------|--------------|------------------|--------------|--------|---------------|-------------|-----------------------|----------------|--------------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Exterior                                                                                        |              |                  |              |        |               |             |                       |                |                    |                     |                                                                                                                                                                  |
| Eaves & porch ceilings<br>Beige-painted fibre-cement sheet material                             | Not Sampled  | Assumed Positive | -            | 90m²   | Good          | Non-Friable | Low                   | Low            | Dec 2007           | 3                   | If building is to be demolished, remove by licensed contractor prior to demolition<br><br>If building is to be sold & re-located, material must not be disturbed |
| Garage/laundry/sub-floor –exterior walls<br>Grey dimpled compressed fibre-cement sheet material | 11 Weav - 03 | Positive         | -            | 180m²  | Slight Damage | Non-Friable | Med                   | Low            | Dec 2007           | 3                   |                                                                                                                                                                  |
| Exterior walls – rear of house<br>Yellow-painted pink-grey smooth fibre-cement sheet material   | 11 Weav - 04 | Positive         | -            |        | Good          | Non-Friable | Med                   | Low            | Dec 2007           | 3                   |                                                                                                                                                                  |
| Front porch – exposed fuse box - electrical backing board<br>Black bituminous, fibrous material | Not Sampled  | Assumed Positive | -            | <1m²   | Good          | Non-Friable | Med                   | Low            | Dec 2007           | 3                   |                                                                                                                                                                  |
| Ceiling Space                                                                                   |              |                  |              |        |               |             |                       |                |                    |                     |                                                                                                                                                                  |
| Membrane beneath tiles<br>Brown fibrous, dual bituminous layer brittle sheet material           | 11 Weav - 01 | Negative         | -            | -      | -             | -           | -                     | -              | -                  | -                   | -                                                                                                                                                                |
| 11 Weaver St Interior                                                                           |              |                  |              |        |               |             |                       |                |                    |                     |                                                                                                                                                                  |
| Bathroom –walls<br>Pale brown mottled pattern coated fibre-cement sheet material                | Not Sampled  | Assumed Positive | -            | 30m²   | Good          | Non-Friable | Med                   | Low            | Dec 2007           | 3                   | If building is to be demolished, remove by licensed contractor prior to demolition<br><br>If building is to be sold & re-located, material must not be disturbed |
| Toilet – walls<br>Beige-painted dimpled fibre-cement sheet material                             | 11 Weav - 02 | Positive         | -            | 15m²   | Good          | Non-Friable | Med                   | Low            | Dec 2007           | 3                   |                                                                                                                                                                  |

| Location<br>Item Description<br>Comments                                                                | Sample No.                    | Sample<br>Status    | Photo<br>No. | Extent           | Condition | Friability      | Disturb.<br>Potential | Risk<br>Status | Re-inspect<br>Date | Control<br>Priority | Control Recommendation                                                                                                                                                           |
|---------------------------------------------------------------------------------------------------------|-------------------------------|---------------------|--------------|------------------|-----------|-----------------|-----------------------|----------------|--------------------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Toilet – ceiling<br>White-painted dimpled fibre-cement<br>sheet material                                | Similar to<br>11 Weav -<br>02 | Assumed<br>Positive | -            | 3m <sup>2</sup>  | Good      | Non-<br>Friable | Low                   | Low            | Dec 2007           | 3                   | If building is to be<br>demolished, remove by<br>licensed contractor prior to<br>demolition<br><br>If building is to be sold & re-<br>located, material must not be<br>disturbed |
| Bedroom behind toilet - walls<br>Beige-painted dimpled fibre-cement<br>sheet material                   | Similar to<br>11 Weav -<br>02 | Assumed<br>Positive | -            | 50m <sup>2</sup> | Good      | Non-<br>Friable | Med                   | Low            | Dec 2007           | 3                   |                                                                                                                                                                                  |
| Bedroom behind toilet - ceiling<br>White-painted dimpled fibre-cement<br>sheet material                 | Similar to<br>11 Weav -<br>02 | Assumed<br>Positive | -            | 20m <sup>2</sup> | Good      | Non-<br>Friable | Low                   | Low            | Dec 2007           | 3                   |                                                                                                                                                                                  |
| Rear study behind kitchen - walls<br>Beige-painted dimpled fibre-cement<br>sheet material               | Similar to<br>11 Weav -<br>02 | Assumed<br>Positive | -            | 55m <sup>2</sup> | Good      | Non-<br>Friable | Med                   | Low            | Dec 2007           | 3                   |                                                                                                                                                                                  |
| Rear study behind kitchen - ceiling<br>White-painted dimpled fibre-cement<br>sheet material             | Similar to<br>11 Weav -<br>02 | Assumed<br>Positive | -            | 20m <sup>2</sup> | Good      | Non-<br>Friable | Low                   | Low            | Dec 2007           | 3                   |                                                                                                                                                                                  |
| Kitchen, front bedroom, living room, hallway – no asbestos materials identified                         |                               |                     |              |                  |           |                 |                       |                |                    |                     |                                                                                                                                                                                  |
| 11A Weaver St Interior                                                                                  |                               |                     |              |                  |           |                 |                       |                |                    |                     |                                                                                                                                                                                  |
| Bedrooms, living room, kitchen - walls<br>Peach-painted smooth gold-grey<br>fibre-cement sheet material | 11 Weav -<br>05               | Negative            | -            | -                | -         | -               | -                     | -              | -                  | -                   | -                                                                                                                                                                                |
| Bedrooms, living room, kitchen - ceiling<br>Blue-grey-painted smooth fibre-<br>cement sheet material    | Similar to<br>11 Weav -<br>05 | Assumed<br>Negative | -            | -                | -         | -               | -                     | -              | -                  | -                   | -                                                                                                                                                                                |
| Toilet – walls (top section)<br>Peach-painted smooth fibre-cement<br>sheet material                     | Similar to<br>11 Weav -<br>05 | Assumed<br>Negative | -            | -                | -         | -               | -                     | -              | -                  | -                   | -                                                                                                                                                                                |
| Toilet – walls (lower section)<br>Blue-grey flower pattern coated<br>smooth fibre-cement sheet material | Not<br>Sampled                | Assumed<br>Positive | -            | 28m <sup>2</sup> | Good      | Non-<br>Friable | Med                   | Low            | Dec 2007           | 3                   |                                                                                                                                                                                  |
| Toilet - ceiling<br>Blue-grey-painted smooth fibre-<br>cement sheet material                            | Similar to<br>11 Weav -<br>05 | Assumed<br>Negative | -            | -                | -         | -               | -                     | -              | -                  | -                   | -                                                                                                                                                                                |

### Synthetic Mineral Fibre (SMF)

| Location<br>Description, Comments         | Photo No. | Form                                 | Risk Status | Control Recommendation                                      |
|-------------------------------------------|-----------|--------------------------------------|-------------|-------------------------------------------------------------|
| <b>Ceiling space/exterior</b>             |           |                                      |             |                                                             |
| Ceiling insulation (details not recorded) | -         | Suspected bonded batts               | Low         | Removal by licensed asbestos contractor prior to demolition |
| Hot water tank (details not recorded)     | -         | Suspected internal bonded insulation | Low         |                                                             |

### Polychlorinated Biphenyls (PCBs)

| Location<br>Description                                        | Photo No. | Specifications | Approx. no. of fittings | Comments |
|----------------------------------------------------------------|-----------|----------------|-------------------------|----------|
| No suspected PCB-containing fluorescent light fittings present |           |                |                         |          |

### Lead Paint

| Location<br>Description, Colour                                                                            | Photo No. | Lead Swab Results  | Condition | Control Recommendations             |
|------------------------------------------------------------------------------------------------------------|-----------|--------------------|-----------|-------------------------------------|
| <b>Exterior</b>                                                                                            |           |                    |           |                                     |
| Windows, doors & frames                                                                                    | -         | Top layer positive | Fair      | See Section 6.4 for further details |
| <b>Interior</b>                                                                                            |           |                    |           |                                     |
| 11 Weaver St – interior doors, frames, skirting boards                                                     | -         | Top layer positive | Good      | See Section 6.4 for further details |
| 11A Weaver St – southern bedroom (part of original 11 Weaver St structure) – window frames, skirting board | -         | Top layer positive | Good      |                                     |
| 11A Weaver St – North bedroom, living room, kitchen, bathroom                                              | -         | Top layer negative | Good      | See Section 6.4 for further details |

## Hazardous Materials Register

Lismore Base Hospital (Proposed new Mental Health & CAMHSNET facility)

16 Weaver Street

Date: Mon 29<sup>th</sup> Nov - Wed 1<sup>st</sup> Dec 2004  
Assessed by: S. Day

### Asbestos Materials

| Location<br>Item Description<br>Comments                                                              | Sample No.              | Sample Status    | Photo No. | Extent           | Condition     | Friability  | Disturb. Potential | Risk Status | Re-inspect Date | Control Priority | Control Recommendation                                                                                                                                           |
|-------------------------------------------------------------------------------------------------------|-------------------------|------------------|-----------|------------------|---------------|-------------|--------------------|-------------|-----------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Exterior</b>                                                                                       |                         |                  |           |                  |               |             |                    |             |                 |                  |                                                                                                                                                                  |
| Eaves<br>Light blue-painted gold-grey fibre-cement sheet material                                     | 16Weav - 03A            | Negative         | -         | -                | -             | -           | -                  | -           | -               | -                | -                                                                                                                                                                |
| Porch ceilings<br>Cream-painted gold-grey fibre-cement sheet debris                                   | 16Weav - 03B            | Negative         | -         | -                | -             | -           | -                  | -           | -               | -                | -                                                                                                                                                                |
| Front porch – exposed fuse box - electrical backing board<br>Black bituminous, fibrous material       | Not Sampled             | Assumed Positive | -         | <1m <sup>2</sup> | Good          | Non-Friable | Low                | Low         | Dec 2007        | 3                | If building is to be demolished, remove by licensed contractor prior to demolition<br><br>If building is to be sold & re-located, material must not be disturbed |
| Back porch - walls<br>Light brown-painted grey fibre-cement sheet material                            | 16Weav - 04             | Positive         | -         | 10m <sup>2</sup> | Good          | Non-Friable | Med                | Low         | Dec 2007        | 3                |                                                                                                                                                                  |
| Laundry - walls<br>Brown (top coat), light blue (lower coat)-painted grey fibre-cement sheet material | 16Weav - 01             | Positive         | -         | 35m <sup>2</sup> | Good          | Non-Friable | Med                | Low         | Dec 2007        | 3                |                                                                                                                                                                  |
| Laundry - ceiling<br>White-painted fibre-cement sheet material                                        | Similar to 16Weav - 01  | Assumed Positive | -         | 9m <sup>2</sup>  | Good          | Non-Friable | Low                | Low         | Dec 2007        | 3                |                                                                                                                                                                  |
| Carport – walls<br>White-painted grey wavy fibre-cement sheet material                                | 16Weav - 02             | Positive         | -         | 15m <sup>2</sup> | Slight Damage | Non-Friable | Med                | Low         | Dec 2007        | 3                |                                                                                                                                                                  |
| Carport – ceiling<br>Light blue-painted smooth fibre-cement sheet material                            | Similar to 16Weav - 03B | Assumed Negative | -         | -                | -             | -           | -                  | -           | -               | -                | -                                                                                                                                                                |

| Location<br>Item Description<br>Comments                               | Sample No.              | Sample Status    | Photo No. | Extent           | Condition | Friability  | Disturb. Potential | Risk Status | Re-inspect Date | Control Priority | Control Recommendation |
|------------------------------------------------------------------------|-------------------------|------------------|-----------|------------------|-----------|-------------|--------------------|-------------|-----------------|------------------|------------------------|
| Shed – walls<br>White-painted wavy fibre-cement sheet material         | Similar to 16 Weav - 02 | Assumed Positive | -         | 25m <sup>2</sup> | Good      | Non-Friable | Med                | Low         | Dec 2007        | 3                | As described above     |
| <b>Interior</b>                                                        |                         |                  |           |                  |           |             |                    |             |                 |                  |                        |
| Kitchen, bathroom, bed/living rooms – no asbestos materials identified |                         |                  |           |                  |           |             |                    |             |                 |                  |                        |

### Synthetic Mineral Fibre (SMF)

| Location<br>Description, Comments     | Photo No. | Form                                 | Risk Status | Control Recommendation                                      |
|---------------------------------------|-----------|--------------------------------------|-------------|-------------------------------------------------------------|
| <b>Exterior/ceiling space</b>         |           |                                      |             |                                                             |
| Hot water tank (details not recorded) | -         | Suspected internal bonded insulation | Low         | Removal by licensed asbestos contractor prior to demolition |
| <b>Ceiling space</b>                  |           |                                      |             |                                                             |
| Ceiling insulation                    | -         | Bonded batts                         | Low         | Removal by licensed asbestos contractor prior to demolition |

### Polychlorinated Biphenyls (PCBs)

| Location<br>Description                                                                           | Photo No. | Specifications                                                                                                                                                             | Approx. no. of fittings | Comments                                                                                                                                                                                                |
|---------------------------------------------------------------------------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Interior – room adjacent back door (with concertina door) – single tube fluorescent light fitting | -         | <ul style="list-style-type: none"> <li>Metallised round cylindrical capacitor – Ducon 2C27T 2.7 mF</li> <li>Metallised rectangular ballast – Ferguson CF224 20W</li> </ul> | One                     | <p>Neither capacitor nor ballast specifications were recorded in the ANZECC database.</p> <p>Suspect presence of PCBs in both units due to age of fitting &amp; units, and metallised construction.</p> |

**Lead Paint**

| <b>Location<br/>Description, Colour</b>    | <b>Photo No.</b> | <b>Lead Swab Results</b> | <b>Condition</b>     | <b>Control Recommendations</b>                                                                                                                         |
|--------------------------------------------|------------------|--------------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eaves, frames, fascias, wall panelling etc | -                | Details not recorded     | Details not recorded | Lower coats of exterior gloss paints, window and door architraves, skirting boards etc. likely to contain lead.<br>See Section 6.4 for further details |

## Hazardous Materials Register

Lismore Base Hospital (Proposed new Mental Health & CAMHSNET facility)

17 Weaver Street (Indigo House – Sexual Assault Service)

Date: Mon 29<sup>th</sup> Nov - Wed 1<sup>st</sup> Dec 2004  
Assessed by: S. Day

### Asbestos Materials

| Location<br>Item Description<br>Comments                                                                                      | Sample No.              | Sample Status    | Photo No. | Extent           | Condition | Friability  | Disturb. Potential | Risk Status | Re-inspect Date | Control Priority | Control Recommendation                                                                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------|-------------------------|------------------|-----------|------------------|-----------|-------------|--------------------|-------------|-----------------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Exterior</b>                                                                                                               |                         |                  |           |                  |           |             |                    |             |                 |                  |                                                                                                                                                              |
| Eaves<br>Green-painted gold-grey compressed fibre-cement sheet material                                                       | 17 Weav - 04            | Positive         | -         | 90m <sup>2</sup> | Good      | Non-Friable | Low                | Low         | Dec 2007        | 3                | As described below                                                                                                                                           |
| West annex – wall panelling (unpainted on north side)<br>Light green-painted gold-grey layered fibre-cement sheet material    | 17 Weav - 05            | Negative         | -         | -                | -         | -           | -                  | -           | -               | -                | -                                                                                                                                                            |
| Garbage-type dumpster at building's west end, adjacent car-park<br>Un-painted smooth gold-grey fibre-cement sheet material    | Similar to 17 Weav - 05 | Assumed Negative | -         | -                | -         | -           | -                  | -           | -               | -                | -                                                                                                                                                            |
| <b>Interior</b>                                                                                                               |                         |                  |           |                  |           |             |                    |             |                 |                  |                                                                                                                                                              |
| North office annex – east room - wall panels below windows)<br>Beige-painted gold-grey compressed fibre-cement sheet material | 17 Weav - 02            | Positive         | -         | 10m <sup>2</sup> | Good      | Non-Friable | Med                | Low         | Dec 2007        | 3                | If building is to be demolished, remove by licensed contractor prior to demolition<br>If building is to be sold & re-located, material must not be disturbed |
| Filing Room - walls<br>Pale blue-painted fibre-cement sheet material                                                          | 17 Weav - 01            | Negative         | -         | -                | -         | -           | -                  | -           | -               | -                | -                                                                                                                                                            |
| Children's activity room – walls<br>Orange-painted smooth gold-grey fibre-cement sheet material                               | 17 Weav - 03            | Negative         | -         | -                | -         | -           | -                  | -           | -               | -                | -                                                                                                                                                            |

| Location<br>Item Description<br>Comments                                                | Sample No.              | Sample Status    | Photo No. | Extent | Condition | Friability | Disturb. Potential | Risk Status | Re-inspect Date | Control Priority | Control Recommendation |
|-----------------------------------------------------------------------------------------|-------------------------|------------------|-----------|--------|-----------|------------|--------------------|-------------|-----------------|------------------|------------------------|
| Children's activity room – ceiling<br>White-painted smooth fibre-cement sheet material  | Similar to 17 Weav - 03 | Assumed Negative | -         | -      | -         | -          | -                  | -           | -               | -                | -                      |
| Kitchen, bathroom, reception, hallway, other offices – no asbestos materials identified |                         |                  |           |        |           |            |                    |             |                 |                  |                        |

### Synthetic Mineral Fibre (SMF)

| Location<br>Description, Comments                | Photo No. | Form                                 | Risk Status | Control Recommendation                                      |
|--------------------------------------------------|-----------|--------------------------------------|-------------|-------------------------------------------------------------|
| <b>Ceiling space</b>                             |           |                                      |             |                                                             |
| Ceiling insulation                               | -         | Bonded batts                         | Low         | Removal by licensed asbestos contractor prior to demolition |
| Tile lining (silver-foil covered sheeting)       | -         | Bonded rolled blanket                | Low         |                                                             |
| Hot water tanks (one in service & one discarded) | -         | Suspected internal bonded insulation | Low         |                                                             |

### Polychlorinated Biphenyls (PCBs)

| Location<br>Description                                         | Photo No. | Specifications | Approx. no. of fittings | Comments |
|-----------------------------------------------------------------|-----------|----------------|-------------------------|----------|
| No suspected PCBs-containing fluorescent light fittings present |           |                |                         |          |

### Lead Paint

| Location<br>Description, Colour                                  | Photo No. | Lead Swab Results   | Condition | Control Recommendations             |
|------------------------------------------------------------------|-----------|---------------------|-----------|-------------------------------------|
| Interior – annex door & window frames, Bronwyn's office door     | -         | Top layers positive | Good      | See Section 6.4 for further details |
| Exterior – door frames, horizontal wall cladding, eaves, fascias | -         | Top layers positive | Poor      |                                     |

## Hazardous Materials Register

Lismore Base Hospital (Proposed new Mental Health & CAMHSNET facility)

18 Weaver Street

Date: Mon 29<sup>th</sup> Nov - Wed 1<sup>st</sup> Dec 2004  
Assessed by: S. Day

### Asbestos Materials

| Location<br>Item Description<br>Comments                                                               | Sample No.               | Sample<br>Status    | Photo<br>No. | Extent           | Condition        | Friability      | Disturb.<br>Potential | Risk<br>Status | Re-inspect<br>Date | Control<br>Priority | Control Recommendation                                                                                                                                                           |
|--------------------------------------------------------------------------------------------------------|--------------------------|---------------------|--------------|------------------|------------------|-----------------|-----------------------|----------------|--------------------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Exterior                                                                                               |                          |                     |              |                  |                  |                 |                       |                |                    |                     |                                                                                                                                                                                  |
| Eaves<br>Pale olive green-painted brown<br>fibrous 'masonite' material                                 | No<br>Sample<br>Recorded | Assumed<br>Negative | -            | -                | -                | -               | -                     | -              | -                  | -                   | -                                                                                                                                                                                |
| Front porch – wall panels at head of stairs<br>Beige-painted gold-grey fibre-cement<br>sheet material  | 18Weav -<br>01           | Negative            | -            | -                | -                | -               | -                     | -              | -                  | -                   | -                                                                                                                                                                                |
| Beneath house – access hatch<br>Dimpled fibre-cement sheet material                                    | Not<br>Sampled           | Assumed<br>Positive | -            | 1m <sup>2</sup>  | Good             | Non-<br>Friable | Low                   | Low            | Dec 2007           | 3                   | If building is to be<br>demolished, remove by<br>licensed contractor prior to<br>demolition<br><br>If building is to be sold & re-<br>located, material must not be<br>disturbed |
| Beneath house – debris<br>Dimpled fibre-cement sheet material                                          | Not<br>Sampled           | Assumed<br>Positive | -            | 1m <sup>2</sup>  | Slight<br>Damage | Non-<br>Friable | Low                   | Low            | Dec 2007           | 3                   |                                                                                                                                                                                  |
| North side of house - electrical backing<br>board<br>Black bituminous, fibrous material                | Not<br>Sampled           | Assumed<br>Positive | -            | <1m <sup>2</sup> | Good             | Non-<br>Friable | Low                   | Low            | Dec 2007           | 3                   |                                                                                                                                                                                  |
| Ceiling Space                                                                                          |                          |                     |              |                  |                  |                 |                       |                |                    |                     |                                                                                                                                                                                  |
| Membrane beneath tiles<br>Silver foil-coated black bituminous,<br>brown fibrous layered sheet material | 18 Weav -<br>02          | Negative            | -            | -                | -                | -               | -                     | -              | -                  | -                   | -                                                                                                                                                                                |
| Interior                                                                                               |                          |                     |              |                  |                  |                 |                       |                |                    |                     |                                                                                                                                                                                  |
| Bathroom – Lower walls behind tiles<br>Grey compressed fibre-cement sheet<br>material                  | 18Weav -<br>01           | Positive            | -            | 25m <sup>2</sup> | Good             | Non-<br>Friable | Med                   | Low            | Dec 2007           | 3                   | As described above                                                                                                                                                               |

| Location<br>Item Description<br>Comments                                                                      | Sample No.             | Sample Status    | Photo No. | Extent | Condition | Friability  | Disturb. Potential | Risk Status | Re-inspect Date | Control Priority | Control Recommendation                                                                                                                                           |
|---------------------------------------------------------------------------------------------------------------|------------------------|------------------|-----------|--------|-----------|-------------|--------------------|-------------|-----------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Laundry, toilet - walls<br>Aqua (laundry), white (toilet)-painted-grey compressed fibre-cement sheet material | 18Weav - 03            | Positive         | -         | 40m²   | Good      | Non-Friable | Med                | Low         | Dec 2007        | 3                | If building is to be demolished, remove by licensed contractor prior to demolition<br><br>If building is to be sold & re-located, material must not be disturbed |
| Laundry, toilet - ceiling<br>White-painted fibre-cement sheet material                                        | Similar to 18Weav - 03 | Assumed Positive | -         | 15m²   | Good      | Non-Friable | Low                | Low         | Dec 2007        | 3                |                                                                                                                                                                  |
| Bed/living rooms, kitchen, hallway – no asbestos materials identified                                         |                        |                  |           |        |           |             |                    |             |                 |                  |                                                                                                                                                                  |

### Synthetic Mineral Fibre (SMF)

| Location<br>Description, Comments         | Photo No. | Form                                 | Risk Status | Control Recommendation                                      |
|-------------------------------------------|-----------|--------------------------------------|-------------|-------------------------------------------------------------|
| <b>Ceiling space / Exterior</b>           |           |                                      |             |                                                             |
| Hot water tank (details not recorded)     | -         | Suspected internal bonded insulation | Low         | Removal by licensed asbestos contractor prior to demolition |
| Ceiling insulation (details not recorded) | -         | Suspected bonded batts               | Low         |                                                             |

### Polychlorinated Biphenyls (PCBs)

| Location<br>Description                                        | Photo No. | Specifications | Approx. no. of fittings | Comments |
|----------------------------------------------------------------|-----------|----------------|-------------------------|----------|
| No suspected PCB-containing fluorescent light fittings present |           |                |                         |          |

### Lead Paint

| Location<br>Description, Colour                         | Photo No. | Lead Swab Results   | Condition | Control Recommendations                                                                                                                                |
|---------------------------------------------------------|-----------|---------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Interior - skirting boards, door & window frames, doors | -         | Top layers positive | Good      | See Section 6.4 for further details                                                                                                                    |
| Exterior – Wall panelling, door and window frames       | -         | Top layers negative | Good      | Lower coats of exterior gloss paints, window and door architraves, skirting boards etc. likely to contain lead.<br>See Section 6.4 for further details |

## Hazardous Materials Register

Lismore Base Hospital (Proposed new Mental Health & CAMHSNET facility)

20 Weaver Street (Nesbitt Cottage) & Rear Demountables

Date: Mon 29<sup>th</sup> Nov - Wed 1<sup>st</sup> Dec2004  
Assessed by: S. Day

### Asbestos Materials

| Location<br>Item Description<br>Comments                                                          | Sample No.  | Sample Status      | Photo No. | Extent           | Condition     | Friability  | Disturb. Potential | Risk Status | Re-inspect Date | Control Priority | Control Recommendation                                                                                                                                           |
|---------------------------------------------------------------------------------------------------|-------------|--------------------|-----------|------------------|---------------|-------------|--------------------|-------------|-----------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Exterior</b>                                                                                   |             |                    |           |                  |               |             |                    |             |                 |                  |                                                                                                                                                                  |
| Eaves<br>Beige-painted fibre-cement sheet material                                                | Not Sampled | Assumed Positive   | -         | 50m <sup>2</sup> | Good          | Non-Friable | Low                | Low         | Dec 2007        | 3                | If building is to be demolished, remove by licensed contractor prior to demolition<br><br>If building is to be sold & re-located, material must not be disturbed |
| Walls (lower panels)<br>Beige-painted grey dimpled fibre-cement sheet material                    | 20Weav - 06 | Positive           | -         | 35m <sup>2</sup> | Good          | Non-Friable | Med                | Low         | Dec 2007        | 3                |                                                                                                                                                                  |
| Beneath house/laundry - walls<br>Pink-painted dimpled grey compressed fibre-cement sheet material | 20Weav - 04 | Positive           | -         | 12m <sup>2</sup> | Slight Damage | Non-Friable | Med                | Low         | Dec 2007        | 3                |                                                                                                                                                                  |
| Beneath house/laundry - walls<br>Unpainted smooth gold-grey layered fibre-cement sheet material   | 20Weav - 05 | Negative           | -         | -                | -             | -           | -                  | -           | -               | -                | -                                                                                                                                                                |
| <b>Interior</b>                                                                                   |             |                    |           |                  |               |             |                    |             |                 |                  |                                                                                                                                                                  |
| Room 3 - porch walls<br>Beige-painted gold-grey fibre-cement sheet material                       | 20Weav - 01 | Negative           | -         | -                | -             | -           | -                  | -           | -               | -                | -                                                                                                                                                                |
| Room 3 - porch ceiling<br>White-painted gold-grey fibre-cement sheet material                     | Not Sampled | Suspected Positive | -         | 12m <sup>2</sup> | Good          | Non-Friable | Low                | Low         | Dec 2007        | 3                | If building is to be demolished, remove by licensed contractor prior to demolition<br><br>If building is to be sold & re-located, material must not be disturbed |
| Room 2 - porch walls<br>Beige-painted gold-grey fibre-cement sheet material                       | Not Sampled | Suspected Positive | -         | 12m <sup>2</sup> | Good          | Non-Friable | Med                | Low         | Dec 2007        | 3                |                                                                                                                                                                  |

| Location<br>Item Description<br>Comments                                                                                                                                                                     | Sample No.                    | Sample<br>Status      | Photo<br>No. | Extent      | Condition | Friability      | Disturb.<br>Potential | Risk<br>Status | Re-inspect<br>Date | Control<br>Priority | Control Recommendation                                                                                                                                                           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-----------------------|--------------|-------------|-----------|-----------------|-----------------------|----------------|--------------------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Room 2 - porch ceiling<br>White-painted gold-grey fibre-cement<br>sheet material                                                                                                                             | Not<br>Sampled                | Suspected<br>Positive | -            | 12m²        | Good      | Non-<br>Friable | Low                   | Low            | Dec 2007           | 3                   | If building is to be<br>demolished, remove by<br>licensed contractor prior to<br>demolition<br><br>If building is to be sold & re-<br>located, material must not be<br>disturbed |
| Room 4 - annex ceiling<br>White-painted gold-grey fibre-cement<br>sheet material                                                                                                                             | Not<br>Sampled                | Suspected<br>Positive | -            | 9m²         | Good      | Non-<br>Friable | Low                   | Low            | Dec 2007           | 3                   |                                                                                                                                                                                  |
| Bathroom – walls<br>Beige-painted grey compressed fibre-<br>cement sheet material                                                                                                                            | 20 Weav -<br>02               | Positive              | -            | 25m²        | Good      | Non-<br>Friable | Med                   | Low            | Dec 2007           | 3                   |                                                                                                                                                                                  |
| Bathroom – ceiling<br>White-painted fibre-cement sheet<br>material                                                                                                                                           | Similar to<br>20 Weav -<br>02 | Assumed<br>Positive   | -            | 6m²         | Good      | Non-<br>Friable | Low                   | Low            | Dec 2007           | 3                   |                                                                                                                                                                                  |
| Kitchen – walls (top panels around<br>preparation area – may extend to<br>floor, plus full length section adjacent<br>dining room)<br>Pale peach/beige-painted gold-grey<br>compressed fibre-cement sheeting | 20 Weav -<br>03               | Positive              | -            | 20-<br>40m² | Good      | Non-<br>Friable | Med                   | Low            | Dec 2007           | 3                   |                                                                                                                                                                                  |
| Toilet – walls (top beige-painted panels<br>may extend behind wooden<br>panelling to floor<br>Pink brittle vinyl tile material                                                                               | Similar to<br>20 Weav -<br>03 | Assumed<br>Positive   | -            | 6-16m²      | Good      | Non-<br>Friable | Low                   | Low            | Dec 2007           | 3                   |                                                                                                                                                                                  |
| Toilet - ceiling<br>White-painted fibre-cement sheet<br>material                                                                                                                                             | Similar to<br>20 Weav -<br>03 | Assumed<br>Positive   | -            | 2m²         | Good      | Non-<br>Friable | Low                   | Low            | Dec 2007           | 3                   |                                                                                                                                                                                  |
| Landing, lobby – walls (excludes flat<br>masonite panel at top of landing)<br>Beige-painted fibre-cement sheet<br>material                                                                                   | Similar to<br>20 Weav -<br>03 | Assumed<br>Positive   | -            | 12m²        | Good      | Non-<br>Friable | Low                   | Low            | Dec 2007           | 3                   |                                                                                                                                                                                  |
| Landing, lobby – ceiling<br>White-painted fibre-cement sheet<br>material                                                                                                                                     | Similar to<br>20 Weav -<br>03 | Assumed<br>Positive   | -            | 2m²         | Good      | Non-<br>Friable | Low                   | Low            | Dec 2007           | 3                   |                                                                                                                                                                                  |
| Demountables at rear of Nesbitt House – No asbestos materials identified                                                                                                                                     |                               |                       |              |             |           |                 |                       |                |                    |                     |                                                                                                                                                                                  |

### Synthetic Mineral Fibre (SMF)

| Location<br>Description, Comments                        | Photo No. | Form                                    | Risk Status | Control Recommendation                                         |
|----------------------------------------------------------|-----------|-----------------------------------------|-------------|----------------------------------------------------------------|
| <b>Exteriors</b>                                         |           |                                         |             |                                                                |
| Beneath house – rear<br>Rheem 101315 315L hot water tank | -         | Suspected internal bonded<br>insulation | Low         | Removal by licensed asbestos<br>contractor prior to demolition |
| <b>Ceiling spaces</b>                                    |           |                                         |             |                                                                |
| Ceiling insulation (details not recorded)                | -         | Suspected bonded batts                  | Low         | Removal by licensed asbestos<br>contractor prior to demolition |

### Polychlorinated Biphenyls (PCBs)

| Location<br>Description                                                                         | Photo No. | Specifications | Approx. no. of<br>fittings | Comments |
|-------------------------------------------------------------------------------------------------|-----------|----------------|----------------------------|----------|
| No suspected PCB-containing fluorescent light fittings present in Nesbitt House or demountables |           |                |                            |          |

### Lead Paint

| Location<br>Description, Colour                                    | Photo No. | Lead Swab Results   | Condition | Control Recommendations                                                                                                                                          |
|--------------------------------------------------------------------|-----------|---------------------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nesbitt House exterior – Wall panelling, door and<br>window frames | -         | Top layers negative | Good      | Lower coats of exterior gloss paints,<br>window and door architraves,<br>skirting boards etc. likely to contain<br>lead.<br>See Section 6.4 for further details. |
| Demountables – Wall panelling, door and window<br>frames           | -         | Top layers negative | Good      |                                                                                                                                                                  |

**Hazardous Materials Survey Report**  
**Northern Rivers Area Health Service**  
**Lismore Base Hospital,**  
**(Proposed Mental Health & CAMHSNET facility)**  
**Appendix C: Asbestos Sample Analysis Report**

## **Asbestos Sample Analysis Report Lismore Base Hospital, (Proposed Mental Health & CAMHSNET facility)**

This report presents the results of an asbestos fibre identification analysis performed on seventyfour (74) samples collected by Simon Day of Noel Arnold & Associates Pty Ltd from Lismore Base Hospital between Monday 29<sup>th</sup> November & Wednesday 1<sup>st</sup> December 2004.

All sample analysis was performed in our Sydney Laboratory in accordance with Noel Arnold and Associates Pty Ltd Test Method Number 2 "Qualitative Identification of Asbestos in Bulk Samples" and following the guidelines of the NOHSC. The samples will be kept for six (6) months and then disposed of, unless notified otherwise.

The results of the asbestos identification analysis are presented in the appended table overleaf.

Should you require further information please contact the undersigned.

Yours sincerely,

**NOEL ARNOLD AND ASSOCIATES PTY LTD**



**NATA Accredited Laboratory  
Number: 3409**



**SIMONDAY  
Approved Identifier & Signatory**

The tests, calibrations or measurements covered by this document have been performed in accordance with NATA requirements which include the requirements of ISO/IEC 17025 and are traceable to Australian national standards of measurement. This document shall not be reproduced, except in full.

**Date of Analysis: 05-06/12/2004**

The design of sampling strategies is outside the scope of accreditation because each situation is individual, which does not allow for an objective assessment of this aspect.

| NAA Sample No.                                                         | Location / Description / Total Sample Dimensions                                                                                                                                | Analysis Result                                              |
|------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| <b>Location: Lismore Base Hospital, Lismore NSW</b>                    |                                                                                                                                                                                 |                                                              |
| <b>*Shaded rows indicate a positive analytical result for asbestos</b> |                                                                                                                                                                                 |                                                              |
| 37932-E Block-01                                                       | Exterior of building, eaves & southern entrance porch ceilings;<br>Peach (top coat), mustard (lower coat)-painted grey compressed fibre-cement sheet material<br>~20 x 9 x 2 mm | <b>Amosite (Brown Asbestos), Chrysotile (White Asbestos)</b> |
| 37932-E Block-02                                                       | Exterior of building, walkway to B Block – walls below glass panels;<br>Beige-painted grey compressed fibre-cement sheet material<br>~24 x 9 x 2 mm                             | <b>Amosite (Brown Asbestos), Chrysotile (White Asbestos)</b> |
| 37932-E Block-03                                                       | Exterior of building, walkway to B Block – ceiling/eaves;<br>White, peach-painted grey fibre-cement sheet material<br>~9 x 4 x 1 mm                                             | No Asbestos Fibres Detected                                  |
| 37932-E Block-04                                                       | Exterior of building, Alcove adjacent B Block walkway (motorcycle parking) – northern wall;<br>Grey fibre-cement sheet material<br>8 x 4 x 1 mm                                 | <b>Amosite (Brown Asbestos), Chrysotile (White Asbestos)</b> |
| 37932-E Block-05                                                       | Exterior of building, western wall-adjacent alcove;<br>Beige-painted grey fibre-cement sheet material<br>7 x 5 x 1 mm                                                           | <b>Chrysotile (White Asbestos)</b>                           |
| 37932-E Block-06                                                       | Level 1 (Ex-Day Surgery), Male toilet – wall sheeting behind tiles;<br>Gold-grey fibre-cement sheet material<br>15 x 15 x 3 mm                                                  | No Asbestos Fibres Detected                                  |
| 37932-E Block-07                                                       | Level 1, Staff change room – shower/toilet area wall panelling (lower);<br>Grey-painted grey compressed fibre-cement sheet material<br>~4 x 3 x ~1 mm                           | <b>Amosite (Brown Asbestos), Chrysotile (White Asbestos)</b> |
| 37932-E Block-08                                                       | Level 1, Staff change room – shower/toilet area wall panelling (upper)<br>Beige-painted grey fibre-cement sheet material<br>10 x 10 x 1 mm                                      | <b>Amosite (Brown Asbestos), Chrysotile (White Asbestos)</b> |
| 37932-E Block-09                                                       | Level 1, Staff lounge room – distribution board ward 9 alcove (wall panels);<br>Grey compressed fibre-cement sheet material<br>~25 x 20 x 4 mm                                  | <b>Amosite (Brown Asbestos), Chrysotile (White Asbestos)</b> |
| 37932-E Block-10                                                       | Level 1, flooring throughout;<br>Pale mustard flexible vinyl sheet material, and associated clear adhesive material<br>~73 x 35 x 1 mm                                          | No Asbestos Fibres Detected <sup>Note 1</sup>                |

| NAA Sample No.   | Location / Description / Total Sample Dimensions                                                                                                                               | Analysis Result                                              |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| 37932-E Block-11 | Ground Level, Painter's workshop - walls<br>Pale pink-painted gold-grey fibre-cement sheet material<br>20 x 8 x 3 mm                                                           | No Asbestos Fibres Detected                                  |
| 37932-E Block-12 | Ground Level, Electrician's workshop – easternmost bay (walls);<br>Beige-painted grey compressed fibre-cement sheet material<br>~10 x 7 x 2 mm                                 | <b>Chrysotile (White Asbestos)</b>                           |
| 37932-E Block-13 | Ground Level, Electrician's workshop – easternmost bay, added-on wall panel below desk on north wall;<br>Beige-painted gold-grey fibre-cement sheet material<br>~20 x 8 x 2 mm | No Asbestos Fibres Detected                                  |
| 37932-E Block-14 | Ground Level, Electrician's workshop – east bay, south wall – benchtop<br>Black brittle vinyl tile/sheet material, and associated amber adhesive material<br>54 x 51 x 3 mm    | No Asbestos Fibres Detected <sup>Note 1</sup>                |
| 37932-F Block-01 | Exterior of building, eaves & porch ceilings;<br>Peach (top coat), beige, lime (lower coats) gold-grey compressed fibre-cement sheet material<br>~15 x 7 x 1 mm                | <b>Amosite (Brown Asbestos), Chrysotile (White Asbestos)</b> |
| 37932-F Block-02 | Level 1, Toilet – behind wall tiles;<br>Paint and concrete chips<br>~7 x 5 x 1 mm                                                                                              | No Asbestos Fibres Detected                                  |
| 37932-F Block-03 | Workshop Level;<br>White (top coat), lime (lower coat)--painted gold-grey compressed fibre-cement sheet material<br>~10 x 8 x 1 mm                                             | <b>Amosite (Brown Asbestos), Chrysotile (White Asbestos)</b> |
| 37932-G Block-01 | Does not exist – data collection error                                                                                                                                         | -                                                            |
| 37932-G Block-02 | Ground Level, Plumbers workshop – welding bench (insulating benchtop panel and backplate);<br>Gold-grey fibre-cement sheet material<br>~15 x 8 x 1 mm                          | No Asbestos Fibres Detected                                  |
| 37932-G Block-03 | Ground Level, Main workshop – adjacent stereo system (floor);<br>Grey flexible vinyl tile/sheet material, and associated amber adhesive material<br>55 x 28 x 2 mm             | No Asbestos Fibres Detected <sup>Note 1</sup>                |
| 37932-G Block-04 | Ground Level, Maintenance steel rack corridor – hole-punched roll of vinyl sheeting;<br>Mottled grey, white, pink flexible vinyl sheet material<br>53 x 40 x 2 mm              | No Asbestos Fibres Detected <sup>Note 1</sup>                |

| NAA Sample No.    | Location / Description / Total Sample Dimensions                                                                                                                  | Analysis Result                               |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|
| 37932-G Block-05  | Ground Level, Carpenter's workshop annex – exterior wall lining;<br>Cream-painted gold-grey fibre-cement sheet material<br>~15 x 10 x 2 mm                        | No Asbestos Fibres Detected                   |
| 37932-G Block-06A | Ground Level, Meals room & Locker room – floor;<br>Grey flexible vinyl tile/sheet material and associated amber adhesive material<br>42 x 30 x 2 mm               | No Asbestos Fibres Detected <sup>Note 1</sup> |
| 37932-G Block-06B | Ground Level, Meals room & Locker Room – skirting material;<br>Black rubbery flexible sheet material, and associated amber adhesive material<br>~68 x 30 x 2.5 mm | No Asbestos Fibres Detected <sup>Note 1</sup> |
| 37932-G Block-07  | Cafeteria Level, Men's toilets – cubicle partition;<br>Mustard-painted grey compressed fibre-cement material<br>~10 x 8 x 1 mm                                    | <b>Chrysotile (White Asbestos)</b>            |
| 37932-G Block-08  | Cafeteria Level, Men's toilets – walls;<br>White-painted gold-grey fibre-cement sheet material<br>~13 x 10 x 1 mm                                                 | No Asbestos Fibres Detected                   |
| 37932-G Block-09  | Cafeteria Level, Kitchen / lobby dividing wall;<br>Cream-painted gold-grey fibre-cement sheet material<br>~10 x 8 x 1 mm                                          | <b>Chrysotile (White Asbestos)</b>            |
| 37932-G Block-10  | Cafeteria Level, Outdoor dining patio – laundry corridor (wall cladding)<br>Pale grey-painted gold-grey fibre-cement sheet material<br>~18 x 8 x 6 mm             | No Asbestos Fibres Detected                   |
| 37932-G Block-11  | Cafeteria Level, Accommodation Unit No.5 – bathroom (walls);<br>Cream-painted gold-grey fibre-cement sheet material<br>~15 x 10 x 1 mm                            | No Asbestos Fibres Detected                   |
| 37932-G Block-12  | Outside building, wall in driveway between G Block & 20 Hunter Street (Nesbitt House);<br>Gold-grey flat ribbed fibre-cement sheet material<br>50 x 28 x 6 mm     | <b>Chrysotile (White Asbestos)</b>            |
| 37932-G Block-13  | Exterior of building, eaves;<br>White-painted gold-grey fibre-cement sheet material<br>~10 x 7 x 1 mm                                                             | No Asbestos Fibres Detected                   |
| 37932-G Block-14  | Exterior of building, wall panels below windows of accommodation units 5 & 6;<br>Pale grey-painted gold-grey fibre-cement sheet material<br>5 x 2 x <1 mm         | No Asbestos Fibres Detected                   |

| <b>NAA Sample No.</b>  | <b>Location / Description / Total Sample Dimensions</b>                                                                                                             | <b>Analysis Result</b>                                       |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| 37392-52 Hunter St-01  | House interior, North treatment annex - ceiling;<br>White (top coat), green (lower coat)-painted gold-grey compressed fibre-cement sheet material<br>~10 x 8 x 1 mm | <b>Chrysotile (White Asbestos)</b>                           |
| 37392-52 Hunter St-02  | Garage/beneath house – toilet area (wall lining);<br>Grey compressed fibre-cement sheet material<br>~17 x 15 x 2 mm                                                 | <b>Amosite (Brown Asbestos), Chrysotile (White Asbestos)</b> |
| 37392-52 Hunter St-03  | Exterior of building, eaves;<br>Beige-painted gold-grey compressed fibre-cement sheet material<br>~10 x 8 x 1 mm                                                    | <b>Chrysotile (White Asbestos)</b>                           |
| 37392-52 Hunter St-04  | Exterior of building, walls – lining behind faux-brick façade;<br>Gold-grey fibre-cement sheet material<br>~17 x 15 x 4 mm                                          | <b>Chrysotile (White Asbestos)</b>                           |
| 37392-56 Hunter St-01  | Front porch, decorative wall panels above windows & door<br>White-painted grey fibre-cement sheet material<br>~10 x 9 x 1 mm                                        | <b>Chrysotile (White Asbestos)</b>                           |
| 37392-56 Hunter St-02  | Front living room, fireplace – interior wall material;<br>Grey concrete fragments<br>~15 x 8 x 1 mm                                                                 | No Asbestos Fibres Detected                                  |
| 37392-56 Hunter St-03  | Exterior of house, front – sprayed/trowelled "stucco" wall cladding;<br>Beige-painted grey concrete, black bituminous material<br>~25 x 20 x 3 mm                   | No Asbestos Fibres Detected                                  |
| 37392-58 Hunter St-01  | Bathroom, walls – lower sections;<br>Grey compressed fibre-cement sheet material<br>~5 x 5 x 1 mm                                                                   | <b>Amosite (Brown Asbestos), Chrysotile (White Asbestos)</b> |
| 37392-60 Hunter St-01A | Rear toilet – floor;<br>Grey brittle vinyl tile/sheet material<br>37 x 14 x 3 mm                                                                                    | <b>Chrysotile (White Asbestos)</b>                           |
| 37392-60 Hunter St-01B | Rear toilet – floor;<br>Pink brittle vinyl tile/sheet material<br>25 x 15 x 3 mm                                                                                    | <b>Chrysotile (White Asbestos)</b>                           |
| 37392-60 Hunter St-01C | Rear toilet – floor;<br>Black bituminous and amber adhesive materials, attached to underside of samples – 01A & -01B<br>~30 x 20 x <1 mm                            | No Asbestos Fibres Detected                                  |
| 37392-60 Hunter St-02  | "Whiteboard" room, adjacent kitchen, walls – lower section;<br>White-painted grey compressed fibre-cement sheet material<br>~10 x 6 x <1 mm                         | <b>Amosite (Brown Asbestos), Chrysotile (White Asbestos)</b> |

| NAA Sample No.        | Location / Description / Total Sample Dimensions                                                                                                                      | Analysis Result                                                 |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| 37392-60 Hunter St-03 | Beneath house, front (south-west corner) – membrane lining concrete slab;<br>Brown fibrous, black bituminous mostly brittle membrane-type material<br>~45 x 27 x 1 mm | No Asbestos Fibres Detected                                     |
| 37392-60 Hunter St-04 | Beneath house, front (south-west corner) – staircase formwork;<br>Un-painted gold-grey fibre-cement sheet material<br>~18 x 8 x 5 mm                                  | No Asbestos Fibres Detected                                     |
| 37392-7 Weaver St-01  | Bathroom, walls – top section;<br>Cream (top coat), green (lower coat) – painted grey compressed fibre-cement sheet material<br>~6 x 6 x 1 mm                         | <b>Amosite (Brown Asbestos), Chrysotile (White Asbestos)</b>    |
| 37392-7 Weaver St-02A | Bathroom – floor;<br>Black brittle vinyl tile/sheet material<br>~55 x 25 x 3 mm                                                                                       | <b>Chrysotile (White Asbestos)</b>                              |
| 37392-7 Weaver St-02B | Bathroom – floor;<br>Amber adhesive material, attached to underside of sample –02A<br>~55 x 25 x <1 mm                                                                | No Asbestos Fibres Detected                                     |
| 37392-9 Weaver St-01  | Kitchen, walls – lower section;<br>White/cream-painted gold-grey compressed fibre-cement sheet material<br>~8 x 6 x 1 mm                                              | <b>Chrysotile (White Asbestos)</b>                              |
| 37392-9 Weaver St-02  | Kitchen – floor;<br>Green, yellow & grey brittle vinyl tile/sheet materials, and associated amber adhesive & grey fibrous backing materials<br>~50 x 50 x 1.5 mm      | No Asbestos Fibres Detected <sup>Note 1</sup>                   |
| 37392-9 Weaver St-03  | Laundry, walls – sink backing panel;<br>Green, cream-painted grey compressed fibre-cement sheet material<br>~8 x 5 x <1 mm                                            | <b>Chrysotile (White Asbestos)</b>                              |
| 37392-9 Weaver St-04  | Rear covered porch – walls;<br>Beige-painted grey fibre-cement sheet material<br>~12 x 5 x 1 mm                                                                       | <b>Chrysotile (White Asbestos)</b>                              |
| 37392-9 Weaver St-05  | Exterior of house - eaves & porch ceilings;<br>Pale green-painted grey compressed fibre-cement sheet material<br>~10 x 10 x 1 mm                                      | <b>Amosite (Brown Asbestos), Chrysotile (White Asbestos)</b>    |
| 37392-11 Weaver St-01 | Ceiling space – tile membrane;<br>Brown fibrous sheet, dual bituminous layer, mostly brittle membrane-like material<br>~100 x 65 x 2 mm                               | No Asbestos Fibres Detected                                     |
| 37392-11 Weaver St-02 | Toilet – walls;<br>Beige-painted grey compressed fibre-cement sheet material;<br>~10 x 8 x 1 mm                                                                       | <b>Chrysotile (White Asbestos), Crocidolite (Blue Asbestos)</b> |

| <b>NAA Sample No.</b>  | <b>Location / Description / Total Sample Dimensions</b>                                                                                           | <b>Analysis Result</b>                                                                    |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| 37392-11 Weaver St-03  | Sub-floor / basement / laundry / garage – walls;<br>White-painted grey compressed fibre-cement sheet material<br>~15 x 15 x 3 mm                  | <b>Amosite (Brown Asbestos), Chrysotile (White Asbestos), Crocidolite (Blue Asbestos)</b> |
| 37392-11 Weaver St-04  | Exterior of house, rear – walls (smooth panelling);<br>Yellow-painted pink-grey fibre-cement sheet material<br>~10 x 9 x 3 mm                     | <b>Amosite (Brown Asbestos), Chrysotile (White Asbestos)</b>                              |
| 37392-11 Weaver St-05  | Rear flat 11A – interior walls;<br>Peach-painted gold-grey fibre-cement sheet material<br>~15 x 10 x 1 mm                                         | No Asbestos Fibres Detected                                                               |
| 37392-16 Weaver St-01  | Laundry – walls;<br>Brown (top coat), light blue (lower coat)-painted grey fibre-cement sheet material<br>20 x 8 x 1 mm                           | <b>Amosite (Brown Asbestos), Chrysotile (White Asbestos)</b>                              |
| 37392-16 Weaver St-02  | Carport – wavy wall panels;<br>Grey fibre-cement sheet material<br>17 x 9 x 2 mm                                                                  | <b>Amosite (Brown Asbestos), Chrysotile (White Asbestos)</b>                              |
| 37392-16 Weaver St-03A | Exterior of house – eaves & front porch ceiling;<br>Light blue-painted gold-grey fibre-cement sheet material<br>24 x 15 x 3 mm                    | No Asbestos Fibres Detected                                                               |
| 37392-16 Weaver St-03B | Exterior of house, back porch - ceiling;<br>Cream-painted gold-grey fibre-cement sheet material<br>13 x 9 x 3 mm                                  | No Asbestos Fibres Detected                                                               |
| 37392-16 Weaver St-04  | Exterior of house, back porch - walls<br>Light brown-painted grey fibre-cement sheet material<br>10 x 7 x 1 mm                                    | <b>Chrysotile (White Asbestos)</b>                                                        |
| 37392-17 Weaver St-01  | Filing room - walls<br>White/pale blue-painted gold-grey fibre-cement sheet material<br>~9 x 8 x 1 mm                                             | No Asbestos Fibres Detected                                                               |
| 37392-17 Weaver St-02  | Northern office annex, east room - wall panels below windows;<br>Beige-painted gold-grey compressed fibre-cement sheet material<br>~10 x 7 x 2 mm | <b>Chrysotile (White Asbestos)</b>                                                        |
| 37392-17 Weaver St-03  | Children's activity room - walls<br>Orange-painted gold-grey fibre-cement sheet material<br>21 x 13 x 1 mm                                        | No Asbestos Fibres Detected                                                               |
| 37392-17 Weaver St-04  | Exterior of house – eaves;<br>Green-painted gold-grey compressed fibre-cement sheet material<br>~8 x 5 x 1 mm                                     | <b>Amosite (Brown Asbestos), Chrysotile (White Asbestos)</b>                              |

| NAA Sample No.        | Location / Description / Total Sample Dimensions                                                                                                              | Analysis Result                                                                                   |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| 37392-17 Weaver St-05 | Exterior of house, west annex – walls;<br>Light green-painted gold-grey layered fibre-cement sheet material<br>25 x 10 x 4 mm                                 | No Asbestos Fibres Detected                                                                       |
| 37392-18 Weaver St-01 | Bathroom, walls – lower section behind tiles;<br>Grey compressed fibre-cement sheet material<br>~5 x 3 x 1 mm                                                 | <b>Amosite (Brown Asbestos),<br/>Chrysotile (White Asbestos)</b>                                  |
| 37392-18 Weaver St-02 | Ceiling space – tile membrane;<br>Silver foil-coated layered black bituminous, brown fibrous membrane/sheet material<br>~50 x 24 x 1 mm                       | No Asbestos Fibres Detected                                                                       |
| 37392-18 Weaver St-03 | Laundry/toilet area – walls;<br>Aqua-painted grey compressed fibre-cement sheet material<br>~10 x 5 x 1 mm                                                    | <b>Amosite (Brown Asbestos),<br/>Chrysotile (White Asbestos),<br/>Crocidolite (Blue Asbestos)</b> |
| 37392-18 Weaver St-04 | Front porch, wall panels at head of stairs;<br>Beige-painted gold-grey fibre-cement sheet material<br>~16 x 8 x 1 mm                                          | No Asbestos Fibres Detected                                                                       |
| 37392-20 Weaver St-01 | Room 3 – walls;<br>Beige-painted gold-grey fibre-cement sheet material<br>~15 x 10 x 1 mm                                                                     | No Asbestos Fibres Detected                                                                       |
| 37392-20 Weaver St-02 | Bathroom – walls;<br>Beige-painted grey compressed fibre-cement sheet material<br>~10 x 8 x 1 mm                                                              | <b>Chrysotile (White Asbestos),<br/>Crocidolite (Blue Asbestos)</b>                               |
| 37392-20 Weaver St-03 | Kitchen – walls;<br>Pale peach/beige-painted gold-grey compressed fibre-cement sheet material<br>~20 x 10 x 1 mm                                              | <b>Chrysotile (White Asbestos),<br/>Crocidolite (Blue Asbestos)</b>                               |
| 37392-20 Weaver St-04 | Below house, laundry – walls (pink-painted dimpled panels);<br>Pink, beige-painted grey flat dimpled compressed fibre-cement sheet material<br>98 x 48 x 4 mm | <b>Chrysotile (White Asbestos)</b>                                                                |
| 37392-20 Weaver St-05 | Below house, laundry – walls (un-painted smooth panels);<br>Gold-grey layered fibre-cement sheet material<br>~16 x 9 x 5 mm                                   | No Asbestos Fibres Detected                                                                       |
| 37392-20 Weaver St-06 | Exterior of house – walls;<br>Beige-painted grey fibre-cement sheet material<br>8 x 8 x 2 mm                                                                  | <b>Chrysotile (White Asbestos)</b>                                                                |

**\*All samples are analysed by polarised light microscopy, including dispersion staining.**

**\*Shaded rows indicate a positive analytical result for asbestos**

Note 1: Confirmation by another analytical technique advised due to nature of sample  
Please be advised Note 1 is a disclaimer required for resin-impregnated samples where asbestos fibres are not visible by Polarised Light Microscopy.

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**Appendix D: Risk Assessment Factors**

## Risk Assessment Factors - Asbestos

To assess the health risk posed by the presence of asbestos-containing material, all relevant factors must be considered. These factors include:

- ☐ Evidence of physical damage;
- ☐ Evidence of water damage;
- ☐ Proximity of air plenums and direct air stream;
- ☐ Friability of asbestos material;
- ☐ Requirement for access for building operations;
- ☐ Requirement for access for maintenance operations;
- ☐ Likelihood of disturbance of the asbestos material;
- ☐ Accessibility;
- ☐ Exposed surface areas; &
- ☐ Environmental conditions.

These aspects are in turn judged upon; (i) potential for fibre generation, and, (ii) the potential for exposure. Where these factors have indicated that there is a possibility of exposure to airborne fibres, appropriate recommendations for repair, maintenance or abatement of the asbestos-containing materials are made.

## Condition

The condition of the asbestos products identified during the survey is usually reported as either being good or poor.

- ☐ *Good* refers to asbestos materials, which have not been damaged or have not deteriorated.
- ☐ *Minor damage* refers to the asbestos material having suffered minor cracking or de-surfacing.
- ☐ *Poor* describes asbestos materials that have been damaged or their condition has deteriorated over time.

## Friability

The friability of asbestos products describes the ease of which the material can be crumbled, and hence to release fibres.

- ☐ *Friable asbestos* (eg limpet beam insulation, pipe lagging) can be easily crumbled and is more hazardous than non-friable asbestos products.
- ☐ *Non-friable asbestos*, commonly known as bonded asbestos, is typically comprised of asbestos fibres tightly bound in a stable non-asbestos matrix.

Examples of non-friable asbestos products include asbestos cement materials (sheeting, pipes etc), asbestos containing vinyl floor tiles and electrical backing boards.

## Accessibility/Disturbance Potential

Asbestos products can be classified as having low, medium or high accessibility/disturbance potential.

- ☐ *Low* accessibility describes asbestos products that cannot be easily disturbed, such as materials in building voids, set ceilings etc.
- ☐ *Medium* accessibility describes asbestos products that are visible but normal access is impeded, such as materials behind cladding material or are present in a ceiling space or are height restricted.
- ☐ *High* accessibility asbestos products can be easily accessed or damaged due to their close proximity to personnel, eg asbestos cement walls or down pipes.

## Risk Status

The risk factors described above are used to rank the health risk posed by the presence of asbestos-containing materials.

- ☐ A *low* risk ranking describes asbestos materials that pose a low health risk to personnel, employees and the general public providing they stay in a stable condition, for example asbestos materials that are in good condition and have low accessibility.
- ☐ A *medium* risk ranking applies to materials that pose an increased risk to people in the area.
- ☐ Asbestos materials that possess a *high* risk ranking pose a high health risk to personnel or the public in the area of the material. Materials with a high risk ranking will also possess a Priority 1 recommendation to manage the asbestos and reduce the risk.

## Priority Rating System for Control Recommendations - Asbestos

The following priority rating system is adopted to assist in the programming and budgeting of the control of asbestos risk identified at the site.

### Priority 1: Hazard with Significant Risk Potential

An area has asbestos containing materials, which are either damaged or are being exposed to continual disturbance. Due to these conditions, there is an increased potential for exposure and/or transfer of the material to other parts with continued unrestricted use of this area. Representative asbestos fibre monitoring should be conducted in the building area during normal building operation where recommended. Prompt abatement of the asbestos hazard is recommended and instigation of control measures under an asbestos management plan.

### Priority 2: Hazard with Elevated Risk Potential

An area has asbestos containing materials with a potential for disturbance due to the following conditions:

- ☐ Material has been disturbed or damaged and its current condition, while not posing an immediate hazard, is unstable.
- ☐ The material is accessible and can when disturbed, present a short-term exposure risk.
- ☐ Demolition, renovation, refurbishment, maintenance, modification or new installations, involving air-handling system, ceilings, lighting, fire safety systems or floor layout.

Appropriate abatement measures should be taken at earliest possible convenient time. A negligible health risk exists if materials remain undisturbed under the control of an asbestos management plan.

### Priority 3: Maintenance Controllable – Potential Hazard During Refurbishment

An area has asbestos-containing materials, where

- ☐ The condition of the friable asbestos material is now stable and has low potential of being disturbed or
- ☐ The material is currently in a non-friable condition and does not present an exposure risk unless cut, drilled, sanded or otherwise abraded.

Negligible health risks are present if materials are left undisturbed under the control of an asbestos management plan. Defer any major action unless materials are to be disturbed as a result of maintenance, refurbishment or demolition operations.

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#### **Appendix E: Appendix E: Asbestos Removal Procedures**

## Removal of Asbestos Cement Products

### Prior to Removal

1. Before any removal is undertaken, the areas should be roped off at a distance of ten (10) metres clear of the work site or as arranged and approved by the superintendent. The work area should be defined by barriers and by appropriately placed signs.
2. The roped off area should contain the decontamination unit and skip for the storage of all asbestos contaminated waste. The skip should be emptied at regular intervals and when left overnight, should be locked up and secured to the satisfaction of the superintendent. No asbestos waste should be allowed to remain on site over weekends or holiday periods.
3. A decontamination unit should be available at all times during removal for personnel to decontaminate as required.
4. Under conditions where the decontamination unit cannot be attached to the work area the route of access from the work area to the decontamination unit should be suitable sign posted and roped off in order to restrict public access.
5. Wet decontamination procedures should be followed at every work break.
6. Roped off areas should display an adequate number of warning signs and a supervisor should be on hand at all times to see that all personnel inside the work area are wearing protective clothing and respirators and should prohibit all unprotected personnel from entering the work area.
7. The following Personal Protective Equipment (PPE) is required to be used by personnel in the work area:
  - Disposable coveralls: coveralls worn should be made from either 100% synthetic material or a mixed natural / synthetic fabric capable of providing adequate protection against fibre penetration. Once worn, disposable overalls are not to be reused or laundered.
  - A half-face cartridge respirator with Class P2 filter
8. Where necessary to access high areas, scaffolding in compliance with the statutory regulation and codes, or mobile equipment such as a "cherry picker" should be used. Working at heights should be conducted in accordance with relevant regulations and codes.

### Removal

1. Sheeting should be thoroughly wetted down with a fine spray of water/PVA before commencing removal. Nails should be cut with a cold chisel under the edge of the sheet of cut around the head using a punch, causing minimum damage to the sheet.
2. Nails should be removed from the timber framework following this procedure, using pliers/nippers or similar device. Small sections of contaminated timber around the nail should be chiselled out and disposed of as asbestos waste.
3. No power tools or oxy acetylene cutting equipment should be used unless permission to do so is granted by the supervising hygienist.
4. Asbestos cement sheets should be removed with minimal breakage. Unnecessary smashing of asbestos cement sheeting shall not be permitted.
5. Once the asbestos cement is removed, the sheeting should be thoroughly wetted where practical and then wrapped in polythene sheeting and placed in the waste skip.
6. Furthermore, once the sheeting has been removed, the contractor should clean up all debris and loose dust from structural items, including framework, window ledges etc wetting down and vacuuming as is found necessary until completely clean. Where debris has been deposited onto topsoil, the top layer of soil should be skimmed clean

to the satisfaction of the supervising hygienist. The soil should be placed in heavy duty 200µ (minimum thickness) clear polythene bags. These bags should be labelled with an appropriate warning to the effect that the bag contains asbestos and that dust creation and inhalation should be avoided.

7. Bags should be twisted tightly, folded over, and the neck secured in the folded position with wire ties, adhesive tape, or other effective method.
8. Bags that have contained asbestos material should not be re-used.
9. Bags marked for asbestos waste should not be used for any other purpose.
10. Vacuuming down of protective clothing and respirators, as a substitute method of decontamination should not be allowed. No contaminated protective equipment should be worn under any circumstances other than in the work area.

### **General**

1. In the event of a fire or aid for seriously injured or sick personnel, decontamination procedures may be waived.
2. At all times during asbestos removal work, a first aid kit should be available.
3. Demolition contractors shall be required to assess the presence of asbestos before demolition proceeds. Asbestos has been shown to be present hence all asbestos should be removed before demolition is commenced.
4. Disposal of asbestos waste must be disposed of in an NSW EPA asbestos waste registered facility.
5. All removal procedures have been constructed in accordance with the Worksafe Australia Asbestos code of Practice (NOHSC:2002).

The Contractor should take all practicable precautions to minimise noise resulting from all work activities. Equipment should be fitted with noise suppressors and used so that noise in public areas is minimised and complies with relevant statutory provision.

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**Appendix F: SMF Removal Procedures**

## Synthetic Mineral Fibre (SMF)

Caution is required when handling SMF products. Engineering controls, general housekeeping and work practices should minimise the release of, and exposure to SMF fibres and/or dust. It is recommended that the following Code of Practice be closely adhered to when handling such materials.

- *Synthetic Minerals Fibres, Worksafe Australia, National Standard & National Code of Practice, May 1990.*

### Demolition/Refurbishment Works

It is recommended that all SMF materials in poor condition be removed, and those that may be damaged during any refurbishment, be removed prior to such works.

### Removal Procedures

The majority of SMF materials were typical, bonded, non-friable SMF materials. As such, removal is less difficult and hazardous than with unbonded materials, which are more likely to result in fibre release.

The following procedures should be closely followed when handling and removing *unbonded* SMF materials:

- ☐ The work area should be designated by the use of ropes and signs where workable. Persons not involved in SMF work should not be within 3 metres of the designated SMF work area.
- ☐ The unbonded material should be thoroughly wetted before removal takes place. However, dry removal may be necessary when there are electrical hazards in the vicinity.
- ☐ When cutting or drilling is required, this should be done with manual tools, or with power tools fitted with exhaust extraction at the point of dust generation. The exhaust from such extraction equipment should be filtered, and positioned away from other work areas.
- ☐ All waste should be placed in heavy-duty storage bags (such as polyethylene) and sealed prior to removal from the designated work area.
- ☐ All waste should be disposed of in accordance with the local waste disposal authority's requirements.
- ☐ The work area should be cleaned regularly and at the completion of the job to remove any build up of fibres and/or dust. Visible waste materials should be removed promptly to avoid being trampled and spread about.
- ☐ Cleaning should be by an industrial HEPA-equipped vacuum cleaner, but wet mopping and wiping is acceptable if such a vacuum cleaner is not available.
- ☐ The following personal protective equipment should be used by personnel directly involved in the removal work:
  - Disposable full length coveralls, or long sleeve, loose-fitting clothing and gloves. Launderable clothing should be washed separately from other clothing;
  - Where overhead work is involved, goggles and head covering should be worn; and
  - A half-face P2 respirator.

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**Appendix G: PCB Removal Procedures**

## Removal of PCB-Containing Equipment

1. Access shall be restricted to the PCB removal area by suitable barriers and signage. An exclusion zone of at least 10 metres should be maintained.
2. Prior to undertaking PCB removal operations, workers involved in this activity shall be suitably trained in the health and safety procedures to be followed and the fitting /use of personal protective equipment (PPE).
3. Workers involved in PCB removal operations shall wash their hands before drinking, eating or smoking and refrain from such activities in the designated work zones.
4. The following PPE shall be worn by workers engaged in removal of PCB containing equipment (capacitors):
  - Chemically impervious disposable overalls (eg tyvek)
  - Mid arm PCB-resistant rubber gloves (eg Nitrile, butyl rubber, polyethylene, Viton) – do not use polyvinyl chloride or natural rubber (latex) gloves.
  - Safety spectacles or full face shield
  - Rubber boots
5. Respirators will not normally be required, however PCB vapours may be produced from leaking capacitors which are overheating. A characteristic burnt smell will be noticed. Under these circumstances, a half-face piece respirator with a filter suitable for chlorinated vapours shall be worn.
6. The removal of capacitors shall only be undertaken after suitable isolation of power to the work zone and written confirmation of isolation.
7. Safe working procedures shall be adopted when working at height from ladders. Ladders shall be inspected and maintained in good condition, free from structural defects.
8. If PCB material has leaked from the capacitor onto the cover plate or diffuser, the spillage shall be wiped up with an absorbent rag soaked with white spirit or kerosene. The rag is to be disposed of as PCB waste.
9. If skin contact with PCB material occurs, the liquid should be removed immediately with soap and water and waste water contained and disposed of as PCB containing waste. Contaminated clothing should be removed and suitably disposed of. Organic solvents such as petrol or kerosene should not be used to clean the skin.
10. If PCB materials are spilt, the following procedures shall be followed:
  11. Soak up PCB liquid with absorbent material (eg rags, vermiculite)
  12. Place material in plastic bags and store in steel drums
  13. PCB containing capacitors shall be disposed in plastic lined steel drums. The drums should be in sound (leak proof) and clean condition (ie free from contamination) and able to be securely sealed. The drums should be suitably labelled in accordance with the Dangerous Goods (Transport) Regulations, 1987. Labels shall indicate the following: Caution, Contains PCBs, packaging Group No, Class No, UN No and Hazchem Code).
  14. Leaking PCB capacitors shall be first placed in plastic bags. Loose vermiculite material shall be placed in the bottom of each drum to absorb any spillage/leakage.
  15. Drums containing PCB waste shall not be transported around the site unless sealed.
  16. Filled drums must be removed from the premises as soon as possible by persons specifically licensed from the NSW EPA to handle and transport PCBs. An EPA transport certificate must be executed prior to removal.
  17. Pending removal, filled drums, which have been securely sealed and labelled, should be stored in a secured area, which is not accessible to the general public. The area shall be well ventilated and not contain other dangerous goods.

18. Emergency containment and clean up procedures for the accidental release of PCBs should be developed by the contractor.

**NOTE:** Contractors can only undertake the above tasks if the power has been electrically isolated and tagged by a licensed electrician.

### **Handling and Disposal**

PCB containing equipment is to be placed in a polyethylene bag, which is then to be placed in a sealable metal container. This container must be clearly marked with the details of the contents and must be maintained in good order. Transport requirements depend on the quantity and source of the PCB material.

The document "Polychlorinated Biphenyl (PCB) Chemical Control Order 1997" found at <http://www.environment.nsw.gov.au/resources/pcbcco1997.pdf> can assist in safe compliance with these statutory requirements.

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**Hazardous Materials Survey Report**  
**Northern Rivers Area Health Service**  
**Lismore Base Hospital,**  
**(Proposed Mental Health & CAMHSNET facility)**  
**Appendix H: Lead Paint Removal Procedures**

## Management of Lead Painted Surfaces

The health risk associated with lead occurs via an accumulative effect within the human body. Depending on the amount of exposure, side effects of the lead poisoning would not be apparent for many years. It is therefore recommended that workers associated with lead processes (as prescribed in the regulations) have regular medical examinations to monitor the amount of lead in the system.

The most common exposure risks faced by workers are the inhalation of lead dust or fumes. The creation of the hazards generally relates to abrading or burning lead or lead coated surfaces. Other common sources of lead dust or fumes are as follows:

- ☐ Lead based paints – when removing paint by sanding or heat (eg. Creating dust), or when welding or cutting steel coated with lead or lead based paints;
- ☐ Welding, Oxy cutting of steel coated with lead based paint or primer;
- ☐ Dismantling of equipment containing lead;

The abatement of lead painted surfaces and reduction of potential lead exposure risks to workers and the environment requires a review of the potential exposure pathways to lead dust in the project. Local authority requirements, public safety and health requirements, site preparation, waste disposal and contamination control all need to be fully considered therefore, prior to the commencement of the project.

Lead exposure is likely where painted surfaces are to be removed or treated by mechanically sanding, scraping or other cleaning techniques creating airborne dust and fall-out contaminating ground and building surfaces. Accordingly, lead abatement work must fully contain and control airborne emissions and remove resultant lead contaminated dusts and sludges from work surfaces. The painting contractors must prepare a waste management plan prior to any lead paint management work.

Workers must also be fully protected against exposure with personnel protective clothing and respiratory protection and employers of these workers must fully comply with the NSW Lead Regulations, 1993 under the Factories, Shops and Industries Act 1962, including organising medical testing of their employees.

The Australian Standard Guide to Lead Paint Management Part 2: Residential and Commercial Buildings AS 4361.2-1998 provides guidance for the management of lead-paint on non-industrial structures such as residential, commercial and public buildings. It should also be recognised that the proposed work site may already be contaminated by lead, caused by earlier paint contamination from poor maintenance or repairing. It may be necessary to determine background levels in surrounding soil within the area where lead removal processes are to take place.

The options available for the management of lead painted surfaces include:

- ☐ Report and Document;
- ☐ Stabilise the paint;
- ☐ Carrying out lead paint abatement (removal); and
- ☐ A combination of these options.

### Report and Document

This is only appropriate for painted surfaces that are generally inaccessible and are in sound condition and will not be disturbed during the refurbishment of the buildings.

The presence of lead paint, even under existing non-lead painted surfaces should be documented and recorded and regular inspection conducted for evidence of deterioration.

### Lead Paint Stabilisation

The easiest option in dealing with lead painted surfaces is to over-paint using a lead free paint. This can only be done effectively where the existing lead paint is in good condition

as does not require extensive preparation for re-painting. Below is a summarised procedure of lead paint encapsulation:

- ☐ Remove all loose surface material in accordance with lead paint removal procedures;
- ☐ Remove surface gloss with a de-glossing solution;
- ☐ Ensure new paint is compatible with existing paint, ie.: no leaching of lead compounds from old to new surfaces;
- ☐ Oil based paint is preferable;
- ☐ Carry out over-painting in accordance to AS 2311;
- ☐ Undercoat sealer be applied;
- ☐ Two coats of topcoat; and
- ☐ Monitor surface for any signs of deterioration.

Usually the existing paint will need to be washed to remove grime and dirt using sugar soap (tri-sodium phosphate) or removing a glossy surface by wet sanding with a de-glossing solution etc. Small areas of flaking paint will require rectification prior to stabilisation.

### **Lead Paint Removal**

In the event that some surfaces are in poor condition and over-painting is not appropriate, the lead paint will need to be removed. Any lead paint removal must be carried out with the appropriate guidelines for any lead work activity involving machine sanding, grinding, discing, buffing of surfaces coated with paint containing greater than 1% of lead by dry weight.

Lead processes involving such activities with lead paint will require:

- ☐ Enclosure to prevent escape of lead bearing dusts;
- ☐ Adequate signage around work area;
- ☐ Appropriate personal protective equipment;
- ☐ Personal hygiene – no smoking, washing of hands prior to eating etc.;
- ☐ Removal of lead paint via wet sanding or chemical stripping;
- ☐ Vacuuming of all surfaces (with a HEPA filter fitted) within and including the enclosure to remove all remaining traces of lead paint;
- ☐ Decontamination;
- ☐ Clearance testing via surface soil or dust sampling; and
- ☐ Medical surveillance of lead workers (Blood tests);

Any work processes involving lead paint must be undertaken in a manner to ensure that no worker is exposed to lead at concentrations above occupational exposure standard (OES) of 0.15mg/m<sup>3</sup> over an eight-hour day. Furthermore the levels should not exceed 0.03mg/m<sup>3</sup> at the boundary of the regulated area ie. boundary of area surrounding a lead paint worksite where it can be reasonably expected not to exceed the OES.

In a lead abatement operation, it is recommended that a certified lead abatement contractor be engaged (as recommended by the Federation of Master painters Australia or the Painting Contractors Certification Program). This contractor should then perform any lead abatement work. Contractors involved in lead paint removal must have medical surveillance and blood tests conducted in accordance with the regulations.

A detailed work procedure should be reviewed based on assessment of options available to the builder for the various painted surfaces and nature of refurbishment activities to be conducted.

### **Regulatory Requirements**

The *New South Wales Occupational Health & Safety Regulation 2001* cover the use and handling of lead and lead based products.

Part 7.6 of this regulation, Lead processes and lead risk work, class the following as a lead process:

- ☐ Machine sanding or buffing of surfaces coated with paint containing more than one per cent by dry weight of lead

The regulations outline that an employer must ensure that:

- (a) A lead process is kept as clean as practicable;
- (b) Compressed air, compressed gas or dry sweeping cleaning methods are not used in a lead process area;
- (c) No employee eats, drinks, chews gum, smokes or carries smoking materials in a lead process area;
- (d) Any eating or drinking facilities provided at the workplace cannot be contaminated with lead;
- (e) Employees working in a lead process area wear appropriate personal protective equipment;
- (f) Changing rooms and washing, showering and toilet facilities appropriate to the lead process carried out are provided and maintained in a good working order; &
- (g) Employees remove clothing and equipment contaminated with lead, and wash their hands and faces, before entering an area provided at the workplace for eating and drinking.

### **Handling and Disposal**

Disposal and transportation of lead and lead based compounds are governed by the Protection of the Environment Operations Act 1997 and require EPA licensing for transport and disposal of lead based compounds.

- ☐ When removing lead or lead based materials, the creation of respirable dusts or fumes should be avoided. Lead based coating should be removed using wet sanding methods or similar procedure proven not to create dust during removal;
- ☐ When cutting or welding steel, the surfaces must have lead based coating removed prior to the commencement of works.
- ☐ All waste is to be disposed of as Hazardous (lead) Waste including PPE, plastic sheeting, wastewater, rags, debris and contents of vacuum cleaner in accordance with NSW Waste Service Guidelines. The waste is to be disposed of in heavy-duty plastic bags.
- ☐ For disposal of lead contaminated waste, contact: Waste Services NSW on (02) 9934 7000 to apply for a waste permit.

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**Appendix I: General Hazardous Material Information**

## Information on Common Asbestos Materials

Asbestos-containing materials can be classified into the following main categories:-

- ☐ Sprayed or trowelled asbestos materials applied to ceilings, walls and other surfaces for fire-rating purposes. This material is commonly referred to as limpet asbestos.
- ☐ Asbestos-containing insulation on pipes, boilers, tanks, ducts etc. which is often referred to as asbestos lagging.
- ☐ Asbestos cement products, Cementitious or concrete like products.
- ☐ Asbestos paper products, millboard in electrical switchboards or underlaying lining for linoleum or vinyl floor coverings.
- ☐ Asbestos textiles, braided asbestos, rope, tape, gaskets etc (note that rope and millboard are potentially friable).
- ☐ Vinyl tiles, linoleum and vinyl flooring mastic and associated adhesives.
- ☐ Asbestos-containing compounds, gaskets and mastic from mechanical fittings, and roofing membranes.
- ☐ Electrical switchboards containing compressed asbestos tar electrical boards, asbestos cement sheeting, asbestos rope to spark arresters and asbestos millboard from inside auxiliary switchboxes/fuse boards.
- ☐ Roofing sealants, bituminous membranes, tar composites and similar materials were occasionally mixed with asbestos materials.
- ☐ Some office furnishings such as wall partitions may contain an asbestos cement internal lining inside plaster or "Stramit" type panelling. Certain types of older vinyl covered desktops and workbenches may contain an underlying asbestos millboard lining.

### Sprayed Asbestos Materials

Sprayed asbestos or limpet asbestos is most often found on structural steel members to provide a fire-rating. Limpet asbestos is a friable material. Friable materials are those which can easily be crumbled, pulverised or reduced to powder by hand pressure. Limpet asbestos tends to be the most friable of all asbestos-containing materials and can contain relatively high percentage of asbestos (30% - 90%).

Limpet asbestos can slowly release fibres as the materials age ie. As its friability increases. Direct mechanical damage or excessive machinery vibration can lead to more significant release of airborne asbestos fibres.

### Asbestos Containing Lagging Materials

Insulation such as lagging usually contains a smaller percentage of asbestos (usually 20% - 50%). Protective jackets on the insulation materials (such as metal jacketing or calico on pipe lagging) prevent asbestos fibre release. Physical damage to the protective jacket however, may lead to the release of respirable fibres. The binding material in the insulation can deteriorate with age rendering it more friable.

### Asbestos Cement Sheeting Materials

Asbestos cement products and asbestos gaskets generally do not present a significant health risk unless they are cut, sanded or otherwise disturbed so as to release asbestos dust. Fibre release due to occasional damage is negligible and thus not a significant health risk. Care must be taken therefore in the removal of asbestos cement products to avoid the release of airborne fibres. Unless analysis of fibro-cement products indicates otherwise, these materials should be considered as containing asbestos.

External asbestos cement claddings become weathered after many years by the gradual loss of cement from the exposed surface. This leaves loosely bound layers enriched with asbestos fibres. In other words, the material becomes more friable through the weathering process.

## Asbestos Containing Vinyl Products

Vinyl tiles and linoleum flooring manufactured before 1984 may contain asbestos in various quantities in a well-bound cohesive matrix. Asbestos containing vinyl floor and wall coverings generally do not present a significant health risk unless they are sanded or otherwise mechanically abraded so as to release asbestos dust. Fibre release due to occasional damage is negligible and thus not a significant health risk. Care must be taken therefore, in the removal of asbestos containing vinyl tiles to avoid the release of airborne fibres. Unless analysis of vinyl tiles and linoleum flooring indicates otherwise, these materials should be considered as containing asbestos. Older bituminous adhesives may also contain asbestos and must be removed as an asbestos process in circumstance where the floor is to be renewed and re-levelled by floor sanding or grinding.

## Asbestos Containing Gaskets

Gaskets and sealing compounds in equipment, duct work and re-heat air conditioning boxes may contain asbestos. These should be replaced with non-asbestos equivalents during routine maintenance. In addition, asbestos containing mastic and seals in air handling duct work joints. These usually do not pose a hazard as the asbestos fibres are firmly held within the plastic resinous compound and should be replaced as part of routine maintenance or removed during the demolition of the plant equipment.

## Asbestos Insulation to Re-Heat Boxes

Insulation to internal lining of ductwork sections and electrical re-heat air conditioning boxes generally contain asbestos millboard. These should be replaced with non-asbestos equivalents during routing maintenance.

## Asbestos Containing Mastics and Sealants

Many mastic and sealant products contain Chrysotile asbestos within the pliable, resinous matrix. The nature of the substrate is such that it does not readily dry out in situ, and therefore the fibres are well bound and pose a low risk.

## Management of Asbestos Hazards

The health effects associated with asbestos exposure are due to the inhalation of airborne respirable asbestos fibres. In general, the asbestos fibres cannot be released to become airborne in significant quantities unless the asbestos-containing material is severely disrupted such as in the case of cutting asbestos cement products with power saws etc.

A range of control measures are available for the abatement of asbestos hazards. The selection of the appropriate control measure is based on the assessment risk for each specific location. These measures include:

- ☐ **Leave and maintain** in existing condition.
- ☐ **Repair and maintain** in good condition.
- ☐ **Enclose** asbestos or synthetic mineral fibre material by providing a barrier such as a box enclosure or steel cladding.
- ☐ **Remove** by approved methods under controlled conditions.
- ☐ **Labelling** of asbestos materials that are to remain in situ should be undertaken where practical to ensure that the asbestos materials are not damaged inadvertently by maintenance contractors etc.

## Synthetic Mineral Fibre (SMF)

### 6.4.2 General

**Health Effects:** In the late 1980's the International Agency for Research on Cancer (IARC) evaluated certain SMF materials as being possibly carcinogenic to humans. The similarity in application and appearance to asbestos has resulted in some community concern regarding the health effects associated with exposure to SMF.

Current medical research indicates that the slightly increased risk of lung cancer for workers employed in the early days of rockwool and slagwool manufacture, and workers in the glasswool sector is not anticipated under present day working conditions.

However, acute health affects such as eye, skin and upper respiratory tract irritation may occur with exposure to certain SMF products.

**Handling:** Caution is required when handling SMF products in order to minimise disturbance of the materials and subsequent airborne SMF fibre levels. Where SMF materials are to be installed or removed, then suitable controls and appropriate personal protection are to be provided.

**Transport:** Care must be exercised when packaging SMF waste for transport and disposal to minimise the release of dust. Wrap SMF waste in heavy-duty builders' plastic or plastic bags, and completely seal the package, using builders' tape or duct tape. Packages must be wrapped in manageable sizes for unloading.

**Disposal:** SMF must be booked as a special waste, which can only be accepted at nominated Waste Service NSW landfills (not transfer stations).

**Legislation:** It is recommended that the following Code of Practice be closely adhered to for appropriate procedures when handling such materials:

- *Worksafe Australia Synthetic Mineral Fibre, National Standard & National Code of Practice, May 1990.*

## Polychlorinated Biphenyls (PCBs)

PCBs are usually identified as a colourless to darker coloured oily liquid. PCBs are considered probable carcinogens. They can be absorbed through the skin, inhaled as a vapour or ingested, therefore contact with them should be prevented. They are often found in old transformers and metallised capacitors of fluorescent light fittings. These synthetic compounds are chemically stable, have good insulating properties and do not degrade appreciably over time or with exposure to high temperatures. It is these properties that made PCBs useful in electrical devices.

## Lead-containing Paint

Lead paint, as defined by the Australian Standard *AS4361.2 – 1998 Guide to Lead Paint Management – Part 2: Residential and Commercial Buildings*, is that which contains in excess of 1% Lead by weight.

Lead carbonate (white lead) was once the main white pigment in paints for houses and public buildings. Paint with lead pigment was manufactured up until the late 1960's, and in 1969 the National Health and Medical Research Council's Uniform Paint Standard was amended to restrict lead content in domestic paint.

Many older Australian homes and buildings still contain lead paint, even though it may be covered with layers of more recent paint. Lead paint was used mainly on exterior surfaces, and to a lesser degree on interior doors plus door and window architraves, especially in undercoats and primers, where concentrations of up to 20% lead content were used. Interior walls weren't commonly painted with paint containing white lead pigment, though some colours did contain red, orange and yellow lead pigments.

All paints manufactured for Australian dwellings from the 1970's onwards have been required to contain less than 1% lead, though higher lead-content industrial paints may have been applied since then to housing and commercial buildings.

Lead in any form is toxic to humans when ingested or inhaled, with repeated transmission of particles cumulating in lead poisoning. Lead paint removal poses two potential avenues of transmission. Firstly by inhalation or ingestion by workers and public in the vicinity of the works, and secondly by the deposition of particles on nearby footpaths, streets or soil where they may be resuspended, tracked into houses or buildings where it can be inhaled or ingested.

## Report Details

Report title: Asbestos Sample Identification – Lismore Hospital & Community Health Services

Job reference number: SN0042:47909

Date: September 2009

21 September 2006

Our Ref. SN0042:47909

47909 NCAHS Hospital Bulk Sample Analysis Report Sept 2006

Howard Morton-Allen  
Area Physical Resources  
North Coast Area Health Services  
PO BOX 137  
**MACKSVILLE NSW 2447**

Dear Howard,

**Re: Asbestos Sample Identification – Lismore Hospital and  
Community Health Centres**

This report presents the results of asbestos fibre identification analysis performed on two hundred and fifty-four (254) samples as collected by Jared Clifford of Noel Arnold & Associates Pty Ltd throughout May 2006 from Lismore Hospital and Community Health Centres located on the north coast of New South Wales.

All sample analysis was performed in our Sydney Laboratory in accordance with Noel Arnold & Associates Pty Ltd Test Method Number 2 "Qualitative Identification of Asbestos in Bulk Samples" and following the guidelines of the National Occupational Health and Safety Commission (NOHSC). The samples will be kept for six months and then disposed of, unless notified otherwise.

The results of the asbestos identification analysis are presented in the appended table overleaf (47909 NCAHS Hospital Bulk Sample Analysis Report Sept 2006 Pages 2-38).

Should you require further information please contact the undersigned.

Yours sincerely

**NOEL ARNOLD AND ASSOCIATES PTY LTD**



**ZARA MASON**

**Approved Identifier & Signatory**



**NATA Accredited Laboratory  
Number: 3409**

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except in full.

**Date of Analysis: 20/06/2006**

| NAA Sample Id.                             | Location / Description / Total Sample Dimensions                                                                                         | Analysis Result                    |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| <b>Building: Aboriginal Health Offices</b> |                                                                                                                                          |                                    |
| 47909-AHO-01                               | Ground Level, Kitchen counter infill panels<br>White painted grey fibre cement sheet material<br>~2 x 1 x <1 mm                          | No Asbestos Fibres Detected        |
| 47909-AHO-02                               | Ground Level, Storeroom opposite Kitchen – Wall<br>Cream painted grey compressed fibre cement sheet material<br>~2 x 2 x <1 mm           | <b>Chrysotile (White Asbestos)</b> |
| 47909-AHO-03                               | Ground Level, Kitchen , Fridge Cupboard/Store Area – Wall<br>Green painted grey compressed fibre cement sheet material<br>~2 x 1 x <1 mm | <b>Chrysotile (White Asbestos)</b> |
| 47909-AHO-04                               | Ground Level, Toilet and Adjacent Wash Basin – Walls<br>Cream painted grey compressed fibre cement sheet material<br>~7 x 3 x 1 mm       | <b>Chrysotile (White Asbestos)</b> |
| 47909-AHO-05                               | Ground Level, Back Offices and North-West Office – Walls<br>White painted grey compressed fibre cement sheet material<br>~8 x 5 x 2 mm   | <b>Chrysotile (White Asbestos)</b> |
| 47909-AHO-06                               | Basement, Toilet, Bathroom – Ceiling<br>White painted grey compressed fibre cement sheet material<br>~12 x 5 x 1 mm                      | No Asbestos Fibres Detected        |
| 47909-AHO-07                               | Basement, Laundry – Ceiling<br>White painted grey compressed fibre cement sheet material<br>~2 x 1 x <1 mm                               | <b>Chrysotile (White Asbestos)</b> |

**All samples are analysed by polarised light microscopy, including dispersion staining.**

| NAA Sample Id.                              | Location / Description / Total Sample Dimensions                                                                                                  | Analysis Result                    |
|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| 47909-AHO-08                                | Basement, Cellar Room – Ceiling<br>White painted grey compressed fibre cement sheet material<br>~ 23 x 12 x 4 mm                                  | <b>Chrysotile (White Asbestos)</b> |
| 47909-AHO-09                                | Exterior, Cladding adjacent to rear Entrance – Walls<br>Cream painted grey compressed fibre cement sheet material<br>~ 21 x 8 x 3 mm              | <b>Chrysotile (White Asbestos)</b> |
| 47909-AHO-10                                | Exterior, Infill panel underneath windows at rear entrance<br>Cream/yellow painted grey compressed fibre cement sheet material<br>~ 2 x 1 x <1 mm | <b>Chrysotile (White Asbestos)</b> |
| 47909-AHO-11                                | Exterior, NE corner storage area – Wall<br>Cream painted grey compressed fibre cement sheet material<br>~ 23 x 11 x 3 mm                          | No Asbestos Fibres Detected        |
| 47909-AHO-12                                | Exterior, NE corner storage area – Walls<br>Unpainted grey compressed fibre cement sheet material<br>~ 29 x 9 x 3 mm                              | No Asbestos Fibres Detected        |
| 47909-AHO-13                                | Exterior, Perimeter fence at rear of building – Fence panels<br>White painted grey compressed fibre cement sheet material<br>~ 6 x 4 x 2 mm       | No Asbestos Fibres Detected        |
| 47909-AHO-14                                | Exterior, Eaves around perimeter of building in front of verandah<br>Pink painted grey compressed fibre cement sheet material<br>~17 x 9 x 2 mm   | <b>Chrysotile (White Asbestos)</b> |
| <b>Building: Area Mental Health Offices</b> |                                                                                                                                                   |                                    |

All samples are analysed by polarised light microscopy, including dispersion staining.

| NAA Sample Id.                                           | Location / Description / Total Sample Dimensions                                                                                                 | Analysis Result                                          |
|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| 47909-AMHO-01                                            | Ground Level, Directors Office – Ceiling & walls<br>White painted grey fibre cement sheet material<br>~10 x 3 x <1 mm                            | Chrysotile (White Asbestos)                              |
| 47909-AMHO-02                                            | Ground Level, Toilets x 2 – Walls & ceiling<br>White painted grey fibre cement sheeting<br>~23 x 4 x <1 mm                                       | No Asbestos Fibres Detected                              |
| 47909-AMHO-03                                            | Exterior, Eaves around perimeter of building<br>Cream-green painted grey fibre cement sheeting<br>Cream-green painted grey fibre cement sheeting | Chrysotile (White Asbestos);<br>Amosite (Brown Asbestos) |
| <b>Building: Merit, Level 2</b>                          |                                                                                                                                                  |                                                          |
| No Samples Taken                                         |                                                                                                                                                  |                                                          |
| <b>Building: Merit, Levels 1 and 3</b>                   |                                                                                                                                                  |                                                          |
| 47909-Merit-01                                           | Level 1, Treatment room shower area wall<br>Light green painted pink layered fibre cement sheet material<br>~7 x 4 x <1 mm                       | No Asbestos Materials Detected                           |
| <b>Building: LB01 – Block G, Staff Cafeteria</b>         |                                                                                                                                                  |                                                          |
| No Samples Taken – building was demolished               |                                                                                                                                                  |                                                          |
| <b>Building: LB02 – Block F, Biomedical, Maintenance</b> |                                                                                                                                                  |                                                          |
| No Samples Taken – building was demolished               |                                                                                                                                                  |                                                          |
| <b>Building: LB03 – Block H, Morgue</b>                  |                                                                                                                                                  |                                                          |
| 47909-LB03-01                                            | Level 1, Waiting Room – North wall<br>Cream painted grey compressed fibre cement sheet material<br>~3 x 2 x <1 mm                                | No Asbestos Materials Detected                           |

All samples are analysed by polarised light microscopy, including dispersion staining.

| NAA Sample Id.                                                | Location / Description / Total Sample Dimensions                                                                                                        | Analysis Result                |
|---------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| 47909-LB03-02                                                 | Level 1, Cupboard adjacent to bathroom – Wall of cupboard<br>Cream painted grey compressed fibre cement sheet material<br>~2 x 2 x <1 mm                | Chrysotile (White Asbestos)    |
| 47909-LB03-03                                                 | Ground Level, Exterior, Side Entrance to Walkway – Walls<br>White painted grey fibre cement sheet material<br>~3 x 3 x <1 mm                            | No Asbestos Materials Detected |
| 47909-LB03-04                                                 | Exterior, Room Area opposite side to stairway of the Morgue – Roof<br>Black bituminous material<br>~19 x 12 x 2 mm                                      | Chrysotile (White Asbestos)    |
| 47909-LB03-05                                                 | Exterior, Insulation on Ceiling Area opposite Fridge Room – Vermiculite<br>White powdery, gold shiny mica vermiculite type material<br>~11 x 5 x 1 mm   | No Asbestos Materials Detected |
| 47909-LB03-06                                                 | Exterior Area opposite Entrance to Fridge Room – Infill Panels above wire doors x 2<br>White painted grey fibre cement sheet material<br>~2 x 2 x <1 mm | No Asbestos Materials Detected |
| <b>Building: LB04 – Block E, Day Surgical, Workshops</b>      |                                                                                                                                                         |                                |
| No Samples Taken – building was demolished                    |                                                                                                                                                         |                                |
| <b>Building: LB05 – Block A, Wards &amp; General Services</b> |                                                                                                                                                         |                                |
| 47909-LB05-01                                                 | Level 8, A8 Children's Ward, Playroom (east) – Infill panel above door<br>White painted grey compressed fibre cement sheet material<br>~3 x 2 x <1 mm   | No Asbestos Materials Detected |

All samples are analysed by polarised light microscopy, including dispersion staining.

| NAA Sample Id. | Location / Description / Total Sample Dimensions                                                                                                             | Analysis Result                    |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| 47909-LB05-02  | Level 8, A8 Children's Ward surgery – Walls<br>White painted grey compressed fibre cement sheet material<br>~6 x 3 x <1 mm                                   | No Asbestos Materials Detected     |
| 47909-LB05-03  | Level 8, Children's Ward, Staff Lunchroom – Ceiling<br>Unpainted grey compressed fibre cement sheet material<br>~3 x 3 x 1 mm                                | No Asbestos Materials Detected     |
| 47909-LB05-04  | Level 8, Children's Ward, External verandah – Floor covering<br>Brown compressed fibre cement sheet material with associated white adhesive<br>~9 x 6 x 2 mm | <b>Chrysotile (White Asbestos)</b> |
| 47909-LB05-05  | Level 9, Plant room entrance door – Fire door core insulation<br>Unpainted grey compressed fibre cement sheet material<br>~2 x 1 x <1 mm                     | No Asbestos Materials Detected     |
| 47909-LB05-06  | Level 9, Plant room foyer area/stairwell foyer, Ceiling – Vermiculite<br>White painted compressed gold mica material<br>~6 x 3 x 2 mm                        | No Asbestos Materials Detected     |
| 47909-LB05-07  | Level 9, Roof Exterior – Roof Covering<br>Brown brittle compressed roof tile<br>~58 x 29 x 3 mm                                                              | No Asbestos Materials Detected     |
| 47909-LB05-08  | Level 7, North Cleaners cupboard riser duct, Pipe Work – Pipe lagging<br>Unpainted white compressed fibrous material<br>~ 2 x 1 x <1 mm                      | <b>Amosite (Brown Asbestos)</b>    |

All samples are analysed by polarised light microscopy, including dispersion staining.

| NAA Sample Id. | Location / Description / Total Sample Dimensions                                                                                          | Analysis Result                    |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| 47909-LB05-09  | Level 7, A7 ward – NE wall<br>White painted grey compressed fibre cement sheet material<br>~ 8 x 4 x 2 mm                                 | No Asbestos Materials Detected     |
| 47909-LB05-10  | Level 8, Children's Ward, A8, Exterior Verandah – Eaves<br>White painted grey compressed fibre cement sheet material<br>~ 2 x 1 x <1 mm   | <b>Chrysotile (White Asbestos)</b> |
| 47909-LB05-11  | Level 7, A7 Staff Lunchroom (5 <sup>th</sup> ) – East wall<br>White painted grey compressed fibre cement sheet material<br>~ 5 x 3 x 1 mm | No Asbestos Materials Detected     |
| 47909-LB05-12  | Level 6, A6 renal unit, dirty utility room – Walls<br>Unpainted grey compressed fibre cement sheet material<br>~ 4 x 3 x 1 mm             | No Asbestos Materials Detected     |
| 47909-LB05-13  | Level 6, A6, South fire exit fire door core – Insulation core<br>Unpainted grey compressed fibre insulation material<br>~ 4 x 3 x 1 mm    | <b>Chrysotile (White Asbestos)</b> |
| 47909-LB05-14  | Level 6, South fire exit, Stairwell – Ceiling<br>White painted gold compressed mica vermiculite-like material<br>~ 5 x 3 x 3 mm           | No Asbestos Materials Detected     |
| 47909-LB05-15  | Level 6, South Verandah – West walls<br>White painted grey compressed fibre cement sheet material<br>~ 4 x 2 x 1 mm                       | No Asbestos Materials Detected     |

**All samples are analysed by polarised light microscopy, including dispersion staining.**

| NAA Sample Id. | Location / Description / Total Sample Dimensions                                                                                                                                           | Analysis Result                 |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| 47909-LB05-16  | Level 6, A6 Office storage rooms (west), Pipes and Service Rises – Pipe lagging<br>Unpainted white compressed fibrous material<br>~ 9 x 4 x 2 mm                                           | <b>Amosite (Brown Asbestos)</b> |
| 47909-LB05-17  | Level 5, A5, NE room Toilet – Walls<br>Blue painted grey compressed fibre cement sheet material<br>~ 7 x 4 x 1 mm                                                                          | No Asbestos Materials Detected  |
| 47909-LB05-18  | Level 5 - Verandah Exterior – East and West Verandah Walls<br>White painted grey compressed fibre cement sheet material<br>~ 4 x 3 x 1 mm                                                  | No Asbestos Materials Detected  |
| 47909-LB05-19  | Level 3, Allied health hallways, floor coverings – Vinyl floor tiles<br>Blue flexible vinyl floor tile with associated amber adhesive<br>~ 51 x 33 x 3 mm                                  | No Asbestos Materials Detected  |
| 47909-LB05-20  | Level 3, A3 Allied Health Reception Foyers and Speech Pathology, Ceiling – Vermiculite insulation<br>White painted shiny gold compressed mica vermiculite-type material<br>~ 9 x 3 x <1 mm | No Asbestos Materials Detected  |
| 47909-LB05-21  | Level 3, Allied Health Physio Office – Walls<br>Unpainted grey fibre cement sheet material<br>~ 6 x 5 x <1 mm                                                                              | No Asbestos Materials Detected  |
| 47909-LB05-22  | Level 3, Female Change Room, Locker Room – Walls (south-east)<br>White painted grey fibre cement sheet material<br>~ 11 x 3 x <1 mm                                                        | No Asbestos Materials Detected  |

**All samples are analysed by polarised light microscopy, including dispersion staining.**

| NAA Sample Id. | Location / Description / Total Sample Dimensions                                                                                                                   | Analysis Result                    |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| 47909-LB05-23  | Level 3, Female Change Room, Locker Room – Vermiculite on top wall panels<br>White painted shiny gold compressed mica vermiculite-type material<br>~ 20 x 8 x 3 mm | No Asbestos Materials Detected     |
| 47909-LB05-24  | Level 3, A3 Allied Health Reception Foyer and Speech Pathology – Ceiling<br>White painted grey compressed fibre cement sheet material<br>~ 5 x 3 x 2 mm            | No Asbestos Materials Detected     |
| 47909-LB05-25  | Level 2, Garbage Room – Ceiling<br>Cream painted grey compressed fibre cement sheet material<br>~ 6 x 5 x 1 mm                                                     | <b>Chrysotile (White Asbestos)</b> |
| 47909-LB05-26  | Level 4, Women's Wards Room 5, 7, 3, 1 – Wall (west)<br>White painted grey compressed fibre cement sheet material<br>~ 5 x 3 x 1 mm                                | No Asbestos Materials Detected     |
| 47909-LB05-27  | Level 4, North Verandah Eaves – Eaves Panels<br>White painted grey compressed fibre cement sheet material<br>~ 6 x 4 x 2 mm                                        | No Asbestos Materials Detected     |
| 47909-LB05-28  | Level 3, ABX Room (east) floor covering – Vinyl floor tiles<br>Dark brown flexible vinyl floor tile with associated amber adhesive<br>~ 54 x 41 x 2 mm             | No Asbestos Materials Detected     |
| 47909-LB05-29  | Subfloor Service Access Steam and Hot Water Pipe Pumps, Service Area – gaskets on pipe joints<br>Red flexible gasket type material<br>~ 3 x 3 x 1 mm               | <b>Chrysotile (White Asbestos)</b> |

All samples are analysed by polarised light microscopy, including dispersion staining.

| NAA Sample Id.                                                | Location / Description / Total Sample Dimensions                                                                                                                 | Analysis Result                                  |
|---------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 47909-LB05-30                                                 | Subfloor Service Access Hot Water Pipes (Red) – Pipe Lagging insulation<br>White fibrous lagging insulation material<br>~ 4 x 3 x 1 mm                           | Amosite (Brown Asbestos)                         |
| 47909-LB05-31                                                 | Subfloor Service Access Steam Pipes (Blue) – Pipe Lagging Insulation<br>White fibrous lagging insulation material<br>~ 5 x 3 x 1 mm                              | Amosite (Brown Asbestos)                         |
| 47909-LB05-32                                                 | Subfloor Service Area North-West End Near HV Cables – Rope lagging on insulation cables<br>Woven fibrous material<br>~ 16x 12 x 3 mm                             | No Asbestos Materials Detected                   |
| 47909-LB05-33                                                 | Level 3, Cleaner's Cupboard G1, Ceiling Space – Rope lagging insulation<br>Woven fibrous material<br>~ 46 x 21 x 6 mm                                            | Chrysotile (White Asbestos)                      |
| <b>Building: LB06 – Block B, Wards &amp; General Services</b> |                                                                                                                                                                  |                                                  |
| 47909-LB06-01                                                 | Level 3, Social work Office – South Wall<br>White painted grey fibre cement sheet material<br>~19 x 5 x <1 mm                                                    | No Asbestos Materials Detected                   |
| 47909-LB06-02                                                 | Level 3, Social Work Office Floor Covering – Vinyl floor tiles<br>Grey flexible vinyl floor tile material and associated clear amber adhesive<br>~38 x 26 x 2 mm | No Asbestos Materials Detected <sup>Note 1</sup> |
| 47909-LB06-03                                                 | Level 4, Labour Rooms/Birthing Rooms Toilets 1-5 – Walls & Window Partitioning<br>White painted grey fibre cement sheet material<br>~26 x 4 x <1 mm              | No Asbestos Materials Detected                   |

All samples are analysed by polarised light microscopy, including dispersion staining.

| NAA Sample Id. | Location / Description / Total Sample Dimensions                                                                                                          | Analysis Result                |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| 47909-LB06-04  | Level 4, Birthing Suites Department,<br>Staff toilets – Toilet partitions<br>White painted grey fibre cement<br>sheet material<br>~5 x 2 x <1 mm          | No Asbestos Materials Detected |
| 47909-LB06-05  | Level 5, Intensive Care Lunchroom<br>Staff Toilets – North wall<br>White painted beige fibre cement<br>sheet material<br>~11 x 3 x <1 mm                  | No Asbestos Materials Detected |
| 47909-LB06-06  | Level 5, Intensive Care Lunchroom<br>Staff Toilets – North wall<br>Blue painted grey fibre cement sheet<br>material<br>~18 x 6 x <1 mm                    | No Asbestos Materials Detected |
| 47909-LB06-07  | Level 5, Intensive Care Respiratory<br>Room – East & South walls<br>Light blue painted grey fibre cement<br>sheet material<br>~10 x 5 x <1 mm             | No Asbestos Materials Detected |
| 47909-LB06-08  | Level 5, Nth West fire exit stairwell –<br>Underneath stairs & ceiling vermiculite<br>insulation<br>White friable vermiculite material<br>~75 x 11 x 2 mm | No Asbestos Materials Detected |
| 47909-LB06-09  | Level 5, Intensive care, Room 5 & 10<br>toilet/ensuite – Walls<br>Light blue painted grey fibre cement<br>sheet material<br>~13 x 4 x <1 mm               | No Asbestos Materials Detected |
| 47909-LB06-10  | Level 5, Intensive Care – Window<br>partitioning in all rooms<br>Light blue painted grey fibre cement<br>sheet material<br>~9 x 2 x <1 mm                 | No Asbestos Materials Detected |

**All samples are analysed by polarised light microscopy, including dispersion staining.**

| NAA Sample Id.                                                | Location / Description / Total Sample Dimensions                                                                                              | Analysis Result                                  |
|---------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 47909-LB06-11                                                 | Level 5, Intensive care – East & West Walls & storage cabinet<br>Light blue painted grey fibre cement sheet material<br>~9 x 5 x <1 mm        | No Asbestos Materials Detected                   |
| <b>Building: LB07 – Block J, Wards &amp; General Services</b> |                                                                                                                                               |                                                  |
| No Samples Taken                                              |                                                                                                                                               |                                                  |
| <b>Building: LB08 – Blood Bank</b>                            |                                                                                                                                               |                                                  |
| 47909-LB08-01A                                                | Basement, Switchboard room & toilet – Wall coverings<br>Grey and black flecked brittle vinyl/tile material<br>~71 x 33 x 2 mm                 | <b>Chrysotile (White Asbestos)</b>               |
| 47909-LB08-01B                                                | Basement, Switchboard room & toilet – Wall coverings<br>Clear amber adhesive material attached to underside of sample 01A<br>~71 x 33 x <1 mm | No Asbestos Materials Detected <sup>Note 1</sup> |
| 47909-LB08-02A                                                | Basement to Ground Level, Floor covering<br>Light grey and black flecked brittle vinyl/tile material<br>~74 x 68 x 3 mm                       | <b>Chrysotile (White Asbestos)</b>               |
| 47909-LB08-02B                                                | Basement to Ground Level, Floor covering<br>Clear amber adhesive materia attached to underside of sample 02A<br>~74 x 68 x <1 mm              | No Asbestos Materials Detected <sup>Note 1</sup> |
| 47909-LB08-03A                                                | Ground Level, Old Production Room/Post Collection Room, Floor coverings<br>Pink brittle vinyl/tile material<br>~55 x 51 x 3 mm                | <b>Chrysotile (White Asbestos)</b>               |

All samples are analysed by polarised light microscopy, including dispersion staining.

| NAA Sample Id.                                                | Location / Description / Total Sample Dimensions                                                                                                                | Analysis Result                                  |
|---------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 47909-LB08-03B                                                | Ground Level, Old Production Room/Post Collection Room, Floor coverings<br>Dark amber adhesive material attached to underside of sample 03A<br>~55 x 51 x <1 mm | No Asbestos Materials Detected <sup>Note 1</sup> |
| 47909-LB08-04A                                                | Ground Level, Old Production Room/Post Collection Room, Floor coverings<br>Grey flecked brittle vinyl/tile material<br>~78 x 42 x 3 mm                          | <b>Chrysotile (White Asbestos)</b>               |
| 47909-LB08-04B                                                | Ground Level, Old Production Room/Post Collection Room, Floor coverings<br>Dark amber adhesive attached to underside of sample 04A<br>~78 x 42 x <1 mm          | No Asbestos Materials Detected <sup>Note 1</sup> |
| 47909-LB08-05A                                                | Ground Level, Old Production Room/Post Collection Room, Floor coverings<br>Grey brittle vinyl/tile material<br>~85 x 25 x 3 mm                                  | <b>Chrysotile (White Asbestos)</b>               |
| 47909-LB08-05B                                                | Ground Level, Old Production Room/Post Collection Room, Floor coverings<br>Dark amber adhesive material attached to underside of sample 05A<br>~85 x 25 x <1 mm | No Asbestos Materials Detected <sup>Note 1</sup> |
| 47909-LB08-06                                                 | Exterior, Eaves around perimeter of building<br>Yellow painted grey fibre cement sheet material<br>~12 x 4 x <1 mm                                              | <b>Chrysotile (White Asbestos)</b>               |
| <b>Building: LB09 – Block C, Wards &amp; General Services</b> |                                                                                                                                                                 |                                                  |

All samples are analysed by polarised light microscopy, including dispersion staining.

| NAA Sample Id. | Location / Description / Total Sample Dimensions                                                                                           | Analysis Result                |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| 47909-LB09-01  | Level 4 Emergency Room 4019 Sink Internal Wall<br>White painted grey fibre cement sheet material<br>~6 x 3 x 1 mm                          | No Asbestos Materials Detected |
| 47909-LB09-02  | Level 4 Emergency Room 4019 Cupboard – West outer wall<br>White painted grey fibre cement sheet material<br>~7 x 5 x <1 mm                 | No Asbestos Materials Detected |
| 47909-LB09-03  | Level 4, Emergency Storeroom Infill panel under stairs – Infill panel<br>White painted grey fibre cement sheet material<br>~10 x 3 x <1 mm | No Asbestos Materials Detected |
| 47909-LB09-04  | Level 6, Orthopaedic ward at SW end – Wall<br>White painted pink-grey fibre cement sheet material<br>~13 x 4 x <1 mm                       | No Asbestos Materials Detected |
| 47909-LB09-05  | Level 6, Orthopaedic Ward Duct 6030a – Insulation in Gaps<br>Pink-grey, friable insulation material<br>~62 x 24 x 5 mm                     | No Asbestos Materials Detected |
| 47909-LB09-06  | Level 7, Medical ward Duct 7021b – Insulation in bottom of riser<br>Grey, friable, insulation material<br>~39 x 14 x 1 mm                  | No Asbestos Materials Detected |
| 47909-LB09-07  | Level 9, Plantroom A/C Ducting into AHU – Insulation<br>Yellow-grey, friable insulation material<br>~38 x 9 x 1 mm                         | No Asbestos Materials Detected |
| 47909-LB09-08  | Level 9, Plantroom AHU – Pipe Work Leading from AHU on South Side – Rope insulation<br>White rope fibres<br>~ 45 x 4 x <1 mm               | No Asbestos Materials Detected |

**All samples are analysed by polarised light microscopy, including dispersion staining.**

| NAA Sample Id. | Location / Description / Total Sample Dimensions                                                                                                                     | Analysis Result                |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| 47909-LB09-09  | Level 9, Plantroom AHU 'Grey' room – Insulation on walls and beams<br>White friable insulation material<br>~ 8 x 2 x <1 mm                                           | No Asbestos Materials Detected |
| 47909-LB09-10  | Level 9, Roof 'C' Block – Membrane insulation<br>Grey bituminous, fibrous adhesive material<br>~ 40 x 6 x <1 mm                                                      | No Asbestos Materials Detected |
| 47909-LB09-11  | Level 9, Roof 'C' Block Area pipe penetrations - Pipe Penetrations into Block A Building Gap filler<br>Black-brown compressed bituminous material<br>~ 18 x 5 x 1 mm | No Asbestos Materials Detected |
| 47909-LB09-12  | Level 9, Roof 'C' Block pipe penetrations – Insulation<br>Grey flexible spongy sealant material<br>~ 22 x 9 x 1 mm                                                   | No Asbestos Materials Detected |
| 47909-LB09-13  | Level 3, Physiotherapy Section Kitchenette & Storeroom – Outer walls<br>Blue-grey painted grey fibre cement sheet material<br>~ 9 x 4 x <1 mm                        | No Asbestos Materials Detected |
| 47909-LB09-14  | Level 3, Physiotherapy Section Chair Storage room – Wall<br>White painted grey fibre cement sheet material<br>~20 x 6 x <1 mm                                        | No Asbestos Materials Detected |
| 47909-LB09-15  | Level 3, Physiotherapy Section Bathroom – Wall<br>White painted grey fibre cement sheet material<br>~ 8 x 4 x <1 mm                                                  | No Asbestos Materials Detected |

**All samples are analysed by polarised light microscopy, including dispersion staining.**

| NAA Sample Id.                                                  | Location / Description / Total Sample Dimensions                                                                                                           | Analysis Result                    |
|-----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| 47909-LB09-16                                                   | Level 2, Loading Dock & Receiving Goods Store – Walls<br>White painted grey fibre cement sheet material<br>~ 10 x 3 x <1 mm                                | No Asbestos Materials Detected     |
| 47909-LB09-17                                                   | Level 5, Operating Theatres, Exterior Verandah Outside Tea Room – Eaves<br>White painted grey fibre cement sheet material<br>~ 10 x 3 x <1 mm              | No Asbestos Materials Detected     |
| 47909-LB09-18                                                   | Exterior, Main Entrance and Emergency/Ambulance Entrance Ceilings – Eaves and ceiling<br>White painted grey fibre cement sheet material<br>~ 4 x 2 x <1 mm | No Asbestos Materials Detected     |
| 47909-LB09-19                                                   | Exterior, Seating Courtyard Area Adjacent Main Entrance - Eaves off Building – Eaves<br>White painted grey fibre cement sheet material<br>~ 3 x 2 x <1 mm  | No Asbestos Materials Detected     |
| <b>Building: LB10 – Block D, Richmond Clinic, Mental Health</b> |                                                                                                                                                            |                                    |
| 47909-LB10-01                                                   | Level 1, Offices - Hallway of Area – Ceiling<br>White painted grey fibre cement sheet material<br>~4 x 2 x <1 mm                                           | No Asbestos Materials Detected     |
| 47909-LB10-02                                                   | Ground Level, Female Toilet, Change Room – Northern wall<br>White painted grey fibre cement sheet material<br>~2 x 2 x <1 mm                               | No Asbestos Materials Detected     |
| 47909-LB10-03                                                   | Ground Level, Toilet (Female) – Walls<br>Pink painted grey compressed fibre cement sheet material<br>~5 x 4 x <1 mm                                        | <b>Chrysotile (White Asbestos)</b> |

All samples are analysed by polarised light microscopy, including dispersion staining.

| NAA Sample Id. | Location / Description / Total Sample Dimensions                                                                                                   | Analysis Result                    |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| 47909-LB10-04  | Ground Level, Lunchroom, Verandah (External) – Eaves<br>White painted grey compressed fibre cement sheet material<br>~3 x 2 x <1 mm                | <b>Chrysotile (White Asbestos)</b> |
| 47909-LB10-05  | Ground Level, Photocopier to File Room – Walls<br>Pink painted grey compressed fibre cement sheet material<br>~2 x 2 x <1 mm                       | No Asbestos Materials Detected     |
| 47909-LB10-06  | Ground Level, Richmond Clinic, Games Room – Ceiling<br>Unpainted grey compressed fibre cement sheet material<br>~3 x 2 x <1 mm                     | <b>Chrysotile (White Asbestos)</b> |
| 47909-LB10-07  | Ground Level, Infill Panels below Room 10 and Room 9<br>Yellow painted grey compressed fibre cement sheet material<br>~2 x 2 x <1 mm               | No Asbestos Materials Detected     |
| 47909-LB10-08  | Ground Level, Locked Area, Rooms 1,2,3,4 – Ceiling<br>White painted grey compressed fibre cement sheet material<br>~3 x 2 x <1 mm                  | No Asbestos Materials Detected     |
| 47909-LB10-09  | Ground Level, Cleaner's Cupboard adjacent to Games Area – Walls<br>Turquoise painted grey compressed fibre cement sheet material<br>~4 x 2 x <1 mm | No Asbestos Materials Detected     |
| 47909-LB10-10  | Ground Level, Courtyard – Ceiling<br>Cream painted grey compressed fibre cement sheet material<br>~2 x 2 x <1 mm                                   | No Asbestos Materials Detected     |

All samples are analysed by polarised light microscopy, including dispersion staining.

| NAA Sample Id.                                               | Location / Description / Total Sample Dimensions                                                                                                           | Analysis Result                    |
|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| 47909-LB10-11                                                | Ground Level, Courtyard – Eaves and Gables<br>Cream painted grey compressed fibre cement sheet material<br>~5 x 3 x 1 mm                                   | No Asbestos Materials Detected     |
| 47909-LB10-12                                                | Basement Level, Entrance Door to Storage Area – Infill Wall Panels around Doors<br>Unpainted grey compressed fibre cement sheet material<br>~2 x 2 x <1 mm | No Asbestos Materials Detected     |
| <b>Building: LB11 – Block N, Offices &amp; Accommodation</b> |                                                                                                                                                            |                                    |
| 47909-LB11-01                                                | Walkway Block C-Block N – Interior and Exterior walls<br>White painted grey fibre cement sheet material<br>~13 x 4 x 1 mm                                  | No Asbestos Materials Detected     |
| 47909-LB11-02                                                | Walkway Crawford House –Block C – Interior and Exterior walls<br>White painted grey fibre cement sheet material<br>~16 x 4 x 1 mm                          | No Asbestos Materials Detected     |
| 47909-LB11-03                                                | Walkway Crawford House Block C – Interior and Exterior ceiling<br>White painted grey fibre cement sheet material<br>~11 x 4 x 1 mm                         | No Asbestos Materials Detected     |
| 47909-LB11-04                                                | Walkway Block C-Block N – Interior and Exterior ceiling<br>White painted grey fibre cement sheet material<br>~16 x 3 x 1 mm                                | No Asbestos Materials Detected     |
| 47909-LB11-05A                                               | Fire stairwell at northern end Ground Level – Floor covering<br>Grey & yellow brittle vinyl floor tiles<br>~190 x 65 x 3 mm                                | <b>Chrysotile (White Asbestos)</b> |

All samples are analysed by polarised light microscopy, including dispersion staining.

| NAA Sample Id. | Location / Description / Total Sample Dimensions                                                                                             | Analysis Result                                  |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 47909-LB11-05B | Fire stairwell at northern end Ground Level – Floor covering<br>Clear amber adhesive attached to underside of sample 05A<br>~190 x 65 x 3 mm | No Asbestos Materials Detected <sup>Note 1</sup> |
| 47909-LB11-06A | Fire stairwell at northern end Level 1 - Floor covering<br>Green and white brittle vinyl floor tiles<br>~180 x 55 x 5 mm                     | No Asbestos Materials Detected <sup>Note 1</sup> |
| 47909-LB11-06B | Fire stairwell at northern end first floor - Floor covering<br>Brown woven backing attached to underside of sample 06A<br>~180 x 55 x 5 mm   | No Asbestos Materials Detected <sup>Note 1</sup> |
| 47909-LB11-07  | Fire stairwell at northern end Level 1 - Floor covering<br>Black bituminous adhesive material<br>~15 x 14 x 2 mm                             | No Asbestos Materials Detected                   |
| 47909-LB11-08  | Roof Exterior floor covering – Membrane insulation<br>Black bituminous, fibrous membrane material<br>~54 x 26 x 1 mm                         | <b>Chrysotile (White Asbestos)</b>               |
| 47909-LB11-09  | Roof, Hot Water Tank Room, Pipe Work x 2 – Pipe lagging<br>White powdery, gold shiny mica, vermiculite-type material<br>~30 x 10 x 1 mm      | <b>Amosite (Brown Asbestos)</b>                  |
| 47909-LB11-10  | Exterior, Throughout, Window panes – Rope pully system<br>White insulation-like material<br>~34 x 12 x 5 mm                                  | No Asbestos Materials Detected <sup>Note 1</sup> |
| 47909-LB11-11A | Level 5, Common Room at north-west end – Floor covering<br>Blue/green brittle vinyl floor tile material<br>~38 x 10 x 4 mm                   | <b>Amosite (Brown Asbestos)</b>                  |

All samples are analysed by polarised light microscopy, including dispersion staining.

| NAA Sample Id. | Location / Description / Total Sample Dimensions                                                                                                       | Analysis Result                                                       |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| 47909-LB11-11B | Level 5, Common room at north-west end – Floor covering<br>Clear amber adhesive attached to underside of sample 11A<br>~38 x 10 x 4 mm                 | No Asbestos Materials Detected <sup>Note 1</sup>                      |
| 47909-LB11-12  | Level 5, kitchen adjacent common room – Floor covering<br>Green, grey, black patterned linoleum and associated clear amber adhesive<br>~80 x 58 x 2 mm | No Asbestos Materials Detected                                        |
| 47909-LB11-13  | Level 5, Linen cupboards across from southern stairwell – Ceiling<br>Unpainted grey fibre cement sheet material<br>~9 x 4 x 1 mm                       | <b>Amosite (Brown Asbestos)</b><br><b>Chrysotile (White Asbestos)</b> |
| 47909-LB11-14  | Level 4, Kitchen service duct – Pipe work pipe lagging<br>White fibrous insulation material<br>~20 x 16 x 2 mm                                         | <b>Chrysotile (White Asbestos)</b>                                    |
| 47909-LB11-15  | Level 3, Photocopier Room – Panel above entrance & north wall<br>White painted grey fibre cement sheet material<br>~10 x 4 x 1 mm                      | No Asbestos Materials Detected                                        |
| 47909-LB11-16  | Level 2, Male Toilets – Cubicle partition<br>White painted grey fibre cement sheet material<br>~2 x 1 x <1 mm                                          | No Asbestos Materials Detected                                        |
| 47909-LB11-17  | Level 1, Mail Room Records Area SW corner – Infill panel in wall<br>White painted grey fibre cement sheet material<br>~9 x 3 x 1 mm                    | No Asbestos Materials Detected                                        |

All samples are analysed by polarised light microscopy, including dispersion staining.

| NAA Sample Id. | Location / Description / Total Sample Dimensions                                                                                              | Analysis Result                                  |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 47909-LB11-18  | Level 1, Male Toilets – Cubicle partitions & walls<br>White painted grey fibre cement sheet material<br>~9 x 4 x 1 mm                         | No Asbestos Materials Detected                   |
| 47909-LB11-19  | Level 1, Male Toilets – Floor covering<br>Pink-peach brittle vinyl floor tile material and associated clear amber adhesive<br>~70 x 10 x 3 mm | No Asbestos Materials Detected <sup>Note 1</sup> |
| 47909-LB11-20  | Level 1, Infill wall panel between Rooms 9 & 10 on northern side<br>White painted grey fibre cement sheet material<br>~6 x 3 x 1 mm           | No Asbestos Materials Detected                   |
| 47909-LB11-21  | Level 1, Disabled Toilet – Walls<br>White painted grey fibre cement sheet material<br>~8 x 3 x 1 mm                                           | No Asbestos Materials Detected                   |
| 47909-LB11-22  | Ground Level, Meeting room – walls<br>White painted pink-grey fibre cement sheet material<br>~15 x 3 x 1 mm                                   | No Asbestos Materials Detected                   |
| 47909-LB11-23  | Ground Level, Infill panel above entrance to Director of Nursing section<br>White painted grey fibre cement sheet material<br>~13 x 4 x 1 mm  | No Asbestos Materials Detected                   |
| 47909-LB11-24  | Ground Level, Infill panel in between Rooms 19 & 20<br>White painted grey fibre cement sheet material<br>~6 x 3 x 1 mm                        | No Asbestos Materials Detected                   |
| 47909-LB11-25A | Ground Level, Southern end Male Toilets – Floor covering<br>Black brittle vinyl floor tile material<br>~59 x 59 x 3 mm                        | <b>Chrysotile (White Asbestos)</b>               |

All samples are analysed by polarised light microscopy, including dispersion staining.

| NAA Sample Id.                                                      | Location / Description / Total Sample Dimensions                                                                                                                                              | Analysis Result                                  |
|---------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 47909-LB11-25B                                                      | Ground Level, Southern end Male Toilets – Floor covering<br>Black bituminous adhesive material attached to underside of sample 25A<br>~59 x 59 x 3 mm                                         | No Asbestos Materials Detected <sup>Note 1</sup> |
| 47909-LB11-26                                                       | Ground Level, Male & Female Toilets – Window pulley system<br>White fibrous insulation material<br>~10 x 3 x 1 mm                                                                             | No Asbestos Materials Detected                   |
| <b>Building: LB12 – Block P, Cancer Care &amp; General Services</b> |                                                                                                                                                                                               |                                                  |
| 47909-LB12-01                                                       | Level 1, Toilet in southern Hallway – Cubicle partitions<br>White painted grey fibre cement sheet material<br>~4 x 2 x 2 mm                                                                   | No Asbestos Fibres Detected                      |
| 47909-LB12-02                                                       | Level 1, Walkway from block P to Block C, (interior and exterior), adjacent to entrance doorway Block P – Ceiling<br>Unpainted grey compressed fibre cement sheet material<br>~23 x 12 x 2 mm | <b>Chrysotile (White Asbestos)</b>               |
| 47909-LB12-03                                                       | Level 1, Stairway – Ceiling and underlining of Stairs<br>White painted grey fibre cement sheet material<br>~5 x 3 x <1 mm                                                                     | <b>Chrysotile (White Asbestos)</b>               |
| 47909-LB12-04                                                       | Exterior, Pool maintenance shed – Interior and exterior walls<br>Brown painted grey compressed fibre cement sheet material<br>~3 x 2 x <1 mm                                                  | No Asbestos Fibres Detected                      |
| 47909-LB12-05                                                       | Ground Level, Administration offices, Panels above doorways to office supplies and storage rooms.<br>Unpainted grey compressed fibre cement sheet material<br>~12 x 6 x 2 mm                  | No Asbestos Fibres Detected                      |

**All samples are analysed by polarised light microscopy, including dispersion staining.**

| NAA Sample Id. | Location / Description / Total Sample Dimensions                                                                                                                    | Analysis Result                    |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| 47909-LB12-06  | Ground Level, Administration offices, kitchenette - Wall<br>Unpainted grey compressed fibre cement sheet material<br>~7 x 4 x 1 mm                                  | No Asbestos Fibres Detected        |
| 47909-LB12-07  | Ground Level, Office Administration photocopier room – Ceiling<br>White painted grey compressed fibre cement sheet material<br>~3 x 2 x <1 mm                       | <b>Chrysotile (White Asbestos)</b> |
| 47909-LB12-08  | Ground Level, Cancer Care services, kitchenette, storeroom – Walls underneath stairs<br>Grey painted grey compressed fibre cement sheet material<br>~ 12 x 6 x 2 mm | No Asbestos Fibres Detected        |
| 47909-LB12-09  | Level 9, Plant room AHU ‘Grey” room – Walls<br>White painted grey compressed fibre cement sheet material<br>~ 3 x 2 x <1 mm                                         | No Asbestos Fibres Detected        |
| 47909-LB12-10  | Level 1, Cancer Care Office, Kitchen – Walls<br>Cream painted grey compressed fibre cement sheet material<br>~ 4 x 2 x <1 mm                                        | <b>Chrysotile (White Asbestos)</b> |
| 47909-LB12-11  | Level 1, Cancer Care Treatment Centre, Cytotoxic Waste Storage Area – Walls<br>White painted grey compressed fibre cement sheet material<br>~ 2 x 2 x <1 mm         | No Asbestos Fibres Detected        |
| 47909-LB12-12  | Level 1, Cancer Care Office, Toilet adjacent to Kitchen – Walls<br>White painted grey compressed fibre cement sheet material<br>~ 5 x 2 x <1 mm                     | No Asbestos Fibres Detected        |

**All samples are analysed by polarised light microscopy, including dispersion staining.**

| NAA Sample Id.                                        | Location / Description / Total Sample Dimensions                                                                                                                                         | Analysis Result                                                                                   |
|-------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| 47909-LB12-13                                         | Exterior, Ground Level Courtyard to Subfloor Access – Wall panelling (Northern Area adjacent to stairs)<br>Cream painted grey compressed fibre cement sheet material<br>~ 12 x 5 x <1 mm | <b>Chrysotile (White Asbestos);<br/>Amosite (Brown Asbestos);<br/>Crocidolite (Blue Asbestos)</b> |
| 47909-LB12-14                                         | Exterior, Rear Perimeter of building (Northern) – Eaves<br>light green painted grey compressed fibre cement sheet material<br>~3 x 2 x <1 mm                                             | <b>Chrysotile (White Asbestos)</b>                                                                |
| <b>Building: LB14 – Accommodation, “Jildyn” Flats</b> |                                                                                                                                                                                          |                                                                                                   |
| 47909-LB14-01                                         | Level 1, Unit 7, Bathroom – Walls & ceiling<br>Light green painted beige fibre cement sheet material<br>~15 x 4 x <1 mm                                                                  | <b>Chrysotile (White Asbestos)</b>                                                                |
| 47909-LB14-02                                         | Level 1, Unit 7, Laundry and Laundry cupboard – Walls & ceiling<br>Light green painted beige fibre cement sheet material<br>~9 x 5 x <1 mm                                               | <b>Chrysotile (White Asbestos)</b>                                                                |
| 47909-LB14-03                                         | Level 1, Unit 7, Kitchen to Lounge room – Walls & ceiling<br>Light green painted beige fibre cement sheet material<br>~20 x 4 x <1 mm                                                    | <b>Chrysotile (White Asbestos)</b>                                                                |
| 47909-LB14-04                                         | Level 1, Unit 7, Laundry/entrance way floor – Vinyl floor tiles<br>Beige and black dotted brittle vinyl/tile material and associated clear amber adhesive<br>~58 x 15 x 2 mm             | No Asbestos Materials Detected <sup>Note 1</sup>                                                  |
| 47909-LB14-05                                         | Level 1, Unit 7, Bedrooms x 2 – Walls & ceiling<br>Light green painted grey fibre cement sheet material<br>~15 x 5 x <1 mm                                                               | <b>Chrysotile (White Asbestos)</b>                                                                |

All samples are analysed by polarised light microscopy, including dispersion staining.

| NAA Sample Id.                                                                         | Location / Description / Total Sample Dimensions                                                                                                 | Analysis Result                                  |
|----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 47909-LB14-06                                                                          | Level 1, Exterior eaves around perimeter of the building – Eaves<br>Light green painted pink-grey fibre cement sheet material<br>~23 x 3 x <1 mm | Chrysotile (White Asbestos)                      |
| 47909-LB14-07                                                                          | Level 1, Exterior Verandah Railings – Infill panel<br>Unpainted white-grey fibre cement sheet material<br>~3 x 2 x <1 mm                         | Chrysotile (White Asbestos)                      |
| 47909-LB14-08                                                                          | Level 1, Unit 7, Kitchen – Floor<br>White linoleum with associated clear amber adhesive and red-brown board backing<br>~18 x 12 x 1 mm           | No Asbestos Materials Detected <sup>Note 1</sup> |
| <b>Building: LB20-1 – Nesbitt Cottage (Relatives Accommodation)</b>                    |                                                                                                                                                  |                                                  |
| No Samples Taken                                                                       |                                                                                                                                                  |                                                  |
| <b>Building: LB20-2 – Extensions at rear of 20 Weaver St (Relatives Accommodation)</b> |                                                                                                                                                  |                                                  |
| No Samples Taken                                                                       |                                                                                                                                                  |                                                  |
| <b>Building: LB22 – Sexual Assault Service – Indigo House</b>                          |                                                                                                                                                  |                                                  |
| 47909-LB22-01                                                                          | Ground Level, Photocopier Room - Walls<br>Unpainted grey compressed fibre cement sheeting<br>~9 x 3 x 1 mm                                       | No Asbestos Materials Detected                   |
| 47909-LB22-02                                                                          | Ground Level, Toilet opposite Goanna Room – Walls<br>Light blue painted grey fibre cement sheeting<br>~15 x 4 x <1 mm                            | No Asbestos Materials Detected                   |
| 47909-LB22-03                                                                          | Ground Level, Stairwell to Level 1 – Walls<br>Unpainted grey fibre cement sheet material<br>~9 x 4 x 1 mm                                        | No Asbestos Materials Detected                   |

All samples are analysed by polarised light microscopy, including dispersion staining.

| NAA Sample Id.                                          | Location / Description / Total Sample Dimensions                                                                                  | Analysis Result                    |
|---------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| 47909-LB22-04                                           | Level 1, Bathroom – Walls and ceiling<br>White painted grey fibre cement sheet material<br>~17 x 5 x <1 mm                        | <b>Chrysotile (White Asbestos)</b> |
| 47909-LB22-05                                           | Level 1, Toilet at eastern end – Walls<br>White painted pink-grey fibre cement sheet material<br>~7 x 4 x <1 mm                   | No Asbestos Materials Detected     |
| 47909-LB22-06                                           | Level 1, Kitchen Fridge Space – Walls<br>Light blue painted pink-grey fibre cement sheet material<br>~12 x 3 x <1 mm              | No Asbestos Materials Detected     |
| <b>Building: LB24 – Armstrong House (Accommodation)</b> |                                                                                                                                   |                                    |
| 47909-LB24-01                                           | Ground Level, Laundry – Walls & ceiling<br>White painted grey fibre cement sheet material<br>~16 x 4 x <1 mm                      | No Asbestos Materials Detected     |
| 47909-LB24-02                                           | Level 1, Bathrooms x 2 (including toilet) – Walls & ceiling<br>White-yellow painted grey fibre cement sheeting<br>~15 x 3 x <1 mm | No Asbestos Materials Detected     |
| 47909-LB24-03                                           | Exterior, Rear entrance Alcove – Walls<br>Cream painted grey fibre cement sheeting<br>~21 x 8 x <1 mm                             | No Asbestos Materials Detected     |
| <b>Building: LB25 – Head Injury Program</b>             |                                                                                                                                   |                                    |
| 47909-LB25-01                                           | Ground Level, Garage Office – Walls<br>White painted grey fibre cement sheet material<br>~13 x 4 x <1 mm                          | No Asbestos Materials Detected     |

All samples are analysed by polarised light microscopy, including dispersion staining.

| NAA Sample Id.                     | Location / Description / Total Sample Dimensions                                                                                                       | Analysis Result                |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| 47909-LB25-02                      | Exterior, Eaves, perimeter around building to front verandah<br>Brown painted grey fibre cement sheet material<br>~23 x 5 x <1 mm                      | Chrysotile (White Asbestos)    |
| 47909-LB25-03                      | Exterior, Rear of building – Wall panelling<br>Unpainted white-grey fibre cement sheet material<br>~6 x 1 x <1 mm                                      | Chrysotile (White Asbestos)    |
| 47909-LB25-04                      | Exterior, Rear of building infill panel next to sliding door with doorbell<br>Yellow-white painted grey fibre cement sheet material<br>~18 x 5 x <1 mm | Chrysotile (White Asbestos)    |
| 47909-LB25-05                      | Interior, Toilet – Walls and cupboard (rear toilet)<br>Unpainted grey fibre cement sheet material<br>~19 x 3 x <1 mm                                   | Chrysotile (White Asbestos)    |
| 47909-LB25-06                      | Interior, Toilet (eastern) – Walls<br>White painted brown compressed board-like material<br>~8 x 2 x <1 mm                                             | No Asbestos Materials Detected |
| 47909-LB25-07                      | Exterior, Front of building (Nth), Wall with “NCHIS” sign & underneath windows<br>White painted grey fibre cement sheet material<br>~21 x 3 x <1 mm    | Chrysotile (White Asbestos)    |
| 47909-LB25-08                      | Exterior, Western side of building, Hot Water Heater Room – Walls<br>Yellow painted grey compressed fibre cement sheet material<br>~65 x 39 x 6 mm     | Chrysotile (White Asbestos)    |
| <b>Building: LB30 – Tara House</b> |                                                                                                                                                        |                                |

All samples are analysed by polarised light microscopy, including dispersion staining.

| NAA Sample Id.                                           | Location / Description / Total Sample Dimensions                                                                                                                 | Analysis Result                    |
|----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| 47909-LB30-01                                            | Exterior, Eaves at front veranda & perimeter of building<br>Light green painted grey fibre cement sheet material<br>~7 x 4 x <1 mm                               | No Asbestos Materials Detected     |
| <b>Building: LB31 – Population Health &amp; Planning</b> |                                                                                                                                                                  |                                    |
| 47909-LB31-01                                            | Level 1, Rear of building storage & Computer Room – Ceiling<br>White painted grey fibre cement sheet material<br>~12 x 3 x <1 mm                                 | No Asbestos Materials Detected     |
| 47909-LB31-02                                            | Ground Level, Public Health at rear of building (South) – Walls & ceiling<br>White painted grey fibre cement sheet material<br>~15 x 2 x <1 mm                   | No Asbestos Materials Detected     |
| 47909-LB31-03                                            | Ground Level, Public Health Female Toilet & Toilet with green stickers on door – Walls<br>White painted grey fibre cement sheet material<br>~10 x 3 x <1 mm      | No Asbestos Materials Detected     |
| 47909-LB31-04                                            | Ground Level, Kitchen entrance way – Wall<br>White painted brown fibrous board material<br>~15 x 3 x <1 mm                                                       | No Asbestos Materials Detected     |
| 47909-LB31-05                                            | Ground Level, Staff Kitchen – Walls<br>Yellow painted grey fibre cement sheet material<br>~13 x 4 x <1 mm                                                        | <b>Chrysotile (White Asbestos)</b> |
| 47909-LB31-06                                            | Ground Level, North Stairwell from Kitchen to offices adjacent roller door – Wall & ceiling<br>White painted grey fibre cement sheet material<br>~11 x 3 x <1 mm | No Asbestos Materials Detected     |

All samples are analysed by polarised light microscopy, including dispersion staining.

| NAA Sample Id. | Location / Description / Total Sample Dimensions                                                                                                                  | Analysis Result                |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| 47909-LB31-07  | Ground Level, North Stairwell from Kitchen to Offices adjacent to roller door – Wall & ceiling<br>White painted grey fibre cement sheet material<br>~8 x 7 x 1 mm | No Asbestos Materials Detected |
| 47909-LB31-08  | Ground Level, North Stairwell from Kitchen to Offices Adjacent Roller Door – Wall<br>Unpainted grey fibre cement sheet material<br>~ 38 x 28 x 2 mm               | No Asbestos Materials Detected |
| 47909-LB31-09  | Planning & Performance Offices, Western Office & Infill wall panels – Walls & ceiling<br>Yellow painted grey fibre cement sheet material<br>~ 11 x 4 x <1 mm      | No Asbestos Materials Detected |
| 47909-LB31-10  | Planning Offices, Eastern Office & Entrance Wall – Eastern walls & ceiling<br>White painted grey fibre cement sheet material<br>~ 10 x 3 x <1 mm                  | No Asbestos Materials Detected |
| 47909-LB31-11  | Planning Office, Boardroom – Western walls & ceiling<br>White painted brown compressed board material<br>~ 10 x 3 x <1 mm                                         | No Asbestos Materials Detected |
| 47909-LB31-12  | Planning Office, NE office at front of building – western wall<br>Yellow painted grey fibre cement sheet material<br>~ 9 x 3 x <1 mm                              | No Asbestos Materials Detected |
| 47909-LB31-13  | Storeroom adjacent Reception area – Walls<br>White painted grey fibre cement sheet material<br>~ 11 x 4 x <1 mm                                                   | No Asbestos Materials Detected |

**All samples are analysed by polarised light microscopy, including dispersion staining.**

| NAA Sample Id. | Location / Description / Total Sample Dimensions                                                                                                                                | Analysis Result                                  |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 47909-LB31-14  | Planning Offices, Reception Area walls – Counter wall & western wall<br>White painted grey fibre cement sheet material<br>~5 x 4 x <1 mm                                        | No Asbestos Materials Detected                   |
| 47909-LB31-15  | Planning Offices, Storeroom adjacent to Reception area – Floor covering<br>Brown patterned brittle vinyl tile material and associated clear amber adhesive<br>~ 130 x 15 x 2 mm | No Asbestos Materials Detected <sup>Note 1</sup> |
| 47909-LB31-16  | Indigenous Health Services Offices – Walls<br>Light green painted grey fibre cement sheet material<br>~ 13 x 4 x <1 mm                                                          | No Asbestos Materials Detected                   |
| 47909-LB31-17  | Administration Offices – Toilet walls & ceiling<br>White painted grey fibre cement sheet material<br>~ 10 x 4 x <1 mm                                                           | No Asbestos Materials Detected                   |
| 47909-LB31-18  | Skylight caulking material in Administration Offices toilet – Skylight expansion joint<br>White powdery compressed plaster, beige fibrous material<br>~ 30 x 7 x 5 mm           | No Asbestos Materials Detected                   |
| 47909-LB31-19  | Exterior, Eaves around front section of building<br>Yellow painted grey fibre cement sheet material<br>~ 8 x 3 x <1 mm                                                          | No Asbestos Materials Detected                   |
| 47909-LB31-20  | Exterior, Eaves around rear section of building<br>Yellow painted grey fibre cement sheet material<br>~ 9 x 3 x <1 mm                                                           | No Asbestos Materials Detected                   |

**All samples are analysed by polarised light microscopy, including dispersion staining.**

| NAA Sample Id.                               | Location / Description / Total Sample Dimensions                                                                                                        | Analysis Result                                                       |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| 47909-LB31-21                                | Exterior, Western side of building & subfloor area – Wall panel & air con infill panel<br>Unpainted grey fibre cement sheet material<br>~ 6 x 5 x <1 mm | <b>Chrysotile (White Asbestos)</b>                                    |
| 47909-LB31-22                                | Exterior, Western side of building staff entrance – Ceiling<br>White painted grey fibre cement sheet material<br>~ 11 x 3 x <1 mm                       | No Asbestos Materials Detected                                        |
| 47909-LB31-23                                | Exterior, Western side of building awning panelling over windows<br>White painted grey fibre cement sheet material<br>~ 20 x 8 x 3 mm                   | <b>Chrysotile (White Asbestos)</b><br><b>Amosite (Brown Asbestos)</b> |
| <b>Building: LB32 – Living Skills Centre</b> |                                                                                                                                                         |                                                                       |
| 47909-LB32-01                                | Ground Level, Eastern Side Entrance - Ceiling<br>Purple painted grey fibre cement sheet material<br>~3 x 2 x 1 mm                                       | <b>Amosite (Brown Asbestos)</b><br><b>Chrysotile (White Asbestos)</b> |
| 47909-LB32-02                                | Ground Level, Laundry & Bathroom - Cubicle Partitions<br>Light blue painted grey fibre cement sheet material<br>~4 x 3 x 1 mm                           | No Asbestos Materials Detected                                        |
| 47909-LB32-03                                | Ground Level, Rear Verandah – Ceiling<br>Cream/pink painted grey fibre cement sheet material<br>~18 x 8 x 3 mm                                          | <b>Amosite (Brown Asbestos)</b><br><b>Chrysotile (White Asbestos)</b> |
| 47909-LB32-04                                | Exterior, Eaves Around Perimeter of Building and Front Entrance<br>Yellow/brown painted grey fibre cement sheet material<br>~22 x 16 x 3 mm             | <b>Amosite (Brown Asbestos)</b><br><b>Chrysotile (White Asbestos)</b> |

All samples are analysed by polarised light microscopy, including dispersion staining.

| NAA Sample Id.                                | Location / Description / Total Sample Dimensions                                                                                                                      | Analysis Result             |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| <b>Building: LB33 – Breast Screening Unit</b> |                                                                                                                                                                       |                             |
| 47909-LB33-01                                 | Ground Level, Eastern Area of rear section of building, Toilets x2 – Walls<br>Unpainted grey-brown fibre cement sheet material<br>~4 x 2 x <1 mm                      | No Asbestos Fibres Detected |
| 47909-LB33-02                                 | Ground Level, Reception Area, Public Toilet – Walls<br>Grey painted grey compressed fibre cement sheet material<br>~11 x 4 x 1 mm                                     | No Asbestos Fibres Detected |
| 47909-LB33-03                                 | Ground Level, Eastern Toilet at front of building adjacent to Change Rooms 3 & 4 – Walls<br>Grey painted grey compressed fibre cement sheet material<br>~4 x 3 x 1 mm | No Asbestos Fibres Detected |
| 47909-LB33-04                                 | Ceiling Space, Ceiling Insulation - Ceiling Space<br>Grey fibrous insulation material<br>54 x 49 x 4 mm                                                               | No Asbestos Fibres Detected |
| 47909-LB33-05                                 | Ceiling Space, Wall Panelling - Wall Panelling<br>Brown crumbly wall insulation material<br>~30 x 20 x 3 mm                                                           | No Asbestos Fibres Detected |
| 47909-LB33-06                                 | Ground Level, Cleaner's Room – Walls<br>Grey painted grey compressed fibre cement sheet material<br>~5 x 4 x 1 mm                                                     | No Asbestos Fibres Detected |
| 47909-LB33-07                                 | Ground Level, Courtyard Area – Eaves and walls<br>Orange painted grey compressed fibre cement sheet material<br>~5 x 2 x 1 mm                                         | No Asbestos Fibres Detected |

**All samples are analysed by polarised light microscopy, including dispersion staining.**

| NAA Sample Id.                            | Location / Description / Total Sample Dimensions                                                                                                                         | Analysis Result                                                  |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| 47909-LB33-08                             | Exterior, Rear Section of building,<br>Eaves around perimeter of building –<br>Eaves<br>Cream painted grey compressed fibre<br>cement sheet material<br>~4 x 2 x 1 mm    | No Asbestos Fibres Detected                                      |
| 47909-LB33-09                             | Exterior, Car Park Area - Ceiling<br>Cream painted grey compressed fibre<br>cement sheet material<br>~3 x 2 x 1 mm                                                       | No Asbestos Fibres Detected                                      |
| 47909-LB33-10                             | Exterior, East Side of building (older<br>section), Eaves over Toilets Area –<br>Eaves<br>Cream painted grey compressed fibre<br>cement sheet material<br>~4 x 3 x <1 mm | <b>Chrysotile (White Asbestos)</b>                               |
| 47909-LB33-11                             | Exterior, Alcove at front of building -<br>Walls (Internal and External)<br>Cream painted grey compressed fibre<br>cement sheet material<br>~16 x 11 x 2 mm              | <b>Chrysotile (White Asbestos);<br/>Amosite (Brown Asbestos)</b> |
| 47909-LB33-12                             | Exterior, Wall infill panel adjacent to<br>Side Front Entrance of Alcove – Walls<br>Cream painted grey compressed fibre<br>cement sheet material<br>~2 x 2 x <1 mm       | No Asbestos Fibres Detected                                      |
| <b>Building: LB36 – Mental Health NGO</b> |                                                                                                                                                                          |                                                                  |
| 47909-LB36-01                             | Subfloor Area, Wall Panelling<br>Unpainted grey compressed fibre<br>cement sheet material<br>~36 x 18 x 2 mm                                                             | <b>Chrysotile (White Asbestos);<br/>Amosite (Brown Asbestos)</b> |
| 47909-LB36-02                             | Subfloor Area, Infill Panel with Service<br>Pipes Running Through<br>Unpainted grey compressed fibre<br>cement sheet material<br>8 x 5 x 2 mm                            | No Asbestos Materials Detected                                   |

All samples are analysed by polarised light microscopy, including dispersion staining.

| NAA Sample Id. | Location / Description / Total Sample Dimensions                                                                                                    | Analysis Result                |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| 47909-LB36-03  | Exterior, Brick Shed with Brown Cladding Strips – Wall cladding<br>Black painted grey compressed fibre cement sheet material<br>~5 x 3 x 2 mm       | Chrysotile (White Asbestos)    |
| 47909-LB36-04A | Interior, South-West Area of House, Bedroom with Alcove – Floor Covering in Alcove Area<br>Red/brown vinyl floor tile material<br>~32 x 21 x 2 mm   | Chrysotile (White Asbestos)    |
| 47909-LB36-04B | Interior, South-West Area of House, Bedroom with Alcove – Floor Covering in Alcove Area<br>Green vinyl floor tile material<br>~32 x 21 x 2 mm       | Chrysotile (White Asbestos)    |
| 47909-LB36-04C | Interior, South-West Area of House, Bedroom with Alcove – Floor Covering in Alcove Area<br>Yellow vinyl floor tile material<br>~32 x 21 x 2 mm      | Chrysotile (White Asbestos)    |
| 47909-LB36-05  | Interior, South-West Area of House, Bedroom – Walls and ceiling<br>Light green painted grey compressed fibre cement sheet material<br>~5 x 4 x 3 mm | Chrysotile (White Asbestos)    |
| 47909-LB36-06  | Ground Level, Bedroom Area – Walls and ceiling<br>Light green painted grey compressed fibre cement sheet material<br>~7 x 4 x 1 mm                  | Chrysotile (White Asbestos)    |
| 47909-LB36-07  | Ground Level, Entrance Way - Wall [Painted Yellow (North)]<br>Yellow painted brown compressed fibre cement sheet material<br>~7 x 5 x 2 mm          | No Asbestos Materials Detected |

All samples are analysed by polarised light microscopy, including dispersion staining.

| NAA Sample Id.                             | Location / Description / Total Sample Dimensions                                                                                                  | Analysis Result                |
|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| 47909-LB36-08                              | Ground Level, Kitchen - Wall and Heat Exhaust (North)<br>White painted pink compressed fibre cement sheet material<br>4 x 2 x 1 mm                | No Asbestos Fibres Detected    |
| 47909-LB36-09                              | Ground Level, Laundry – Walls<br>White painted pink compressed fibre cement sheet material<br>~5 x 3 x 2 mm                                       | No Asbestos Fibres Detected    |
| 47909-LB36-10                              | Exterior, Verandah (Rear) – Ceiling<br>Light green painted grey compressed fibre cement sheet material<br>~3 x 3 x 1 mm                           | No Asbestos Materials Detected |
| <b>Building: LB42 – Block T, Pathology</b> |                                                                                                                                                   |                                |
| 47909-LB42-01                              | Ground Level, Fire Hose Reel, Cupboard in Hallway of Specimen Section – Walls<br>White painted grey fibre cement sheet material<br>~4 x 2 x <1 mm | No Asbestos Fibres Detected    |
| 47909-LB42-02                              | Ground Level, Specimen Lab Area – Walls<br>White painted grey fibre cement sheet material<br>~3 x 2 x <1 mm                                       | No Asbestos Fibres Detected    |
| 47909-LB42-03                              | Ground Level, Specimen Receipt Hallway – Walls<br>White painted grey fibre cement sheet material<br>~2 x 2 x 1 mm                                 | No Asbestos Fibres Detected    |
| 47909-LB42-04                              | Ground Level, Anatomical Pathology, East Wall with flue attached – Walls<br>White painted grey fibre cement sheet material<br>~5 x 2 x 1 mm       | No Asbestos Fibres Detected    |

All samples are analysed by polarised light microscopy, including dispersion staining.

| NAA Sample Id.                                               | Location / Description / Total Sample Dimensions                                                                                                   | Analysis Result                               |
|--------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|
| 47909-LB42-05                                                | Ground Level, Locker Room – Floor coverings<br>green vinyl floor tile material with associated amber adhesive<br>~48 x 36 x 2 mm                   | No Asbestos Fibres Detected <sup>Note 1</sup> |
| 47909-LB42-06                                                | Exterior, Front Entrance Verandah Ceiling & Eaves East to Entrance<br>Black compressed fibre cement sheeting material<br>~2 x 2 x <1 mm            | <b>Chrysotile (White Asbestos)</b>            |
| <b>Building: LB44 – Laurel Lodge (Doctors Accommodation)</b> |                                                                                                                                                    |                                               |
| 47909-LB44-01                                                | Level 1, Unit 10 Bathroom – Walls<br>White painted grey fibre cement sheet material<br>~15 x 6 x <1 mm                                             | <b>Chrysotile (White Asbestos)</b>            |
| 47909-LB44-02                                                | Level 1, Unit 10 Laundry – Walls<br>White painted grey fibre cement sheet material<br>~19 x 4 x <1 mm                                              | <b>Chrysotile (White Asbestos)</b>            |
| 47909-LB44-03                                                | Exterior, eaves around perimeter of buildings with units 1-5 & 6-10<br>White painted grey fibre cement sheet material<br>~11 x 3 x <1 mm           | <b>Chrysotile (White Asbestos)</b>            |
| 47909-LB44-04                                                | Level 1, Unit 10, Kitchen floor covering<br>Brown patterned flexible linoleum material and associated white board-like backing<br>~56 x 11 x <1 mm | <b>Chrysotile (White Asbestos)</b>            |
| 47909-LB44-05                                                | All units in both blocks, Infill panels above windows<br>Brown painted grey fibre cement sheet material<br>~10 x 3 x <1 mm                         | <b>Chrysotile (White Asbestos)</b>            |

All samples are analysed by polarised light microscopy, including dispersion staining.

| NAA Sample Id.                                      | Location / Description / Total Sample Dimensions                                                                                                        | Analysis Result                                         |
|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| 47909-LB44-06                                       | Exterior, Both unit blocks stairs to Level 1 – Ceiling underside of main stair platform<br>Unpainted grey fibre cement sheet material<br>~9 x 3 x <1 mm | Chrysotile (White Asbestos)                             |
| 47909-LB44-07                                       | Exterior, Main switchboard room – Walls<br>White painted grey fibre cement sheet material<br>~14 x 4 x <1 mm                                            | Chrysotile (White Asbestos)                             |
| <b>Building: LB49 – Women's Health Centre (NGO)</b> |                                                                                                                                                         |                                                         |
| 47909-LB49-01                                       | Ground Level, Library One, Computer Room and Entrance – Ceiling<br>Yellow painted grey fibre cement sheet material<br>~2 x 2 x 1 mm                     | Chrysotile (White Asbestos)                             |
| 47909-LB49-02                                       | Ground Level, Bathroom - Walls<br>White painted grey fibre cement sheet material<br>~3 x 1 x 1 mm                                                       | No Asbestos Materials Detected                          |
| 47909-LB49-03                                       | Ground Level, Exterior, Wall Panelling Around Perimeter of Building<br>Dark yellow painted grey fibre cement sheet material<br>~4 x 2 x 1 mm            | Chrysotile (White Asbestos)                             |
| 47909-LB49-04                                       | Ground Level, Exterior, Eaves Around Perimeter of Building<br>Yellow painted grey fibre cement sheet material<br>~2 x 2 x 1 mm                          | Chrysotile (White Asbestos)<br>Amosite (Brown Asbestos) |
| 47909-LB49-05                                       | Ground Level, Interior, Rear Office (South), Western Wall<br>White painted pebbly compressed fibre cement sheet-like material<br>~2 x 2 x 1 mm          | No Asbestos Materials Detected                          |
| <b>Building: LB54 – RMO Accommodation</b>           |                                                                                                                                                         |                                                         |

All samples are analysed by polarised light microscopy, including dispersion staining.

| NAA Sample Id.                                | Location / Description / Total Sample Dimensions                                                                                            | Analysis Result                    |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| 47909-LB54-01                                 | Exterior, car park area structural beams – Vermiculite insulation<br>White powdery, gold shiny mica vermiculite material<br>~56 x 14 x 1 mm | No Asbestos Materials Detected     |
| 47909-LB54-02                                 | Level 1, Unit 3, Bathroom shower & toilet – Cubicle partitions<br>Yellow painted grey fibre cement sheeting<br>~8 x 2 x <1 mm               | <b>Chrysotile (White Asbestos)</b> |
| 47909-LB54-03                                 | Exterior, Eaves around perimeter of building<br>Green painted grey fibre cement sheeting<br>~13 x 4 x <1 mm                                 | <b>Chrysotile (White Asbestos)</b> |
| <b>Building: LB56 – Riverlands Detox Unit</b> |                                                                                                                                             |                                    |
| 47909-LB56-01                                 | Exterior, eastern side of building and boardroom veranda<br>White painted grey fibre cement sheet material<br>~15 x 4 x <1 mm               | No Asbestos Materials Detected     |

All samples are analysed by polarised light microscopy, including dispersion staining.

## Report Details

Report title: Asbestos Management Plan

Job reference number: SN0042:54878

Date: February 2007



## Asbestos Management Plan

North Coast Area Health Services

Hospitals and Community Health Centres



February 2007

Our Ref: SN0042 : 54878

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SN0042: JC

54878 NCAHS Asbestos Management Plan February 2007 v.5

# Asbestos Management Plan

## North Coast Area Health Services

### Hospitals and Community Health Centres

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Hospitals and Community Health Centres

# SECTION 1 - PREAMBLE

## 1.1 Introduction

Exposure to asbestos is linked with respiratory disease and asbestos is a known human carcinogen. The identification of asbestos hazards, the evaluation of the risk they pose to persons and the implementation of appropriate controls to minimise that risk is an important part of overall health and safety risk management in the workplace. This risk management process is driven by legislation in each state and territory of Australia.

This manual is designed to address the statutory obligation of North Coast Area Health Services to manage asbestos hazards, by providing a single point of reference for all asbestos related issues pertaining to the relevant properties.

## 1.2 This Manual – Section by Section

| SECTION NO. | CONTENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1           | <p>Preamble</p> <p>Preamble associated with this asbestos management manual.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 2           | <p>Asbestos Management Plan</p> <p>The Asbestos Management Plan (AMP), detailing the management procedures designed to ensure that all practicable steps are taken to prevent, or minimise the risk of exposure to asbestos containing materials (e.g. work permit system, labelling, emergency response procedures)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 3           | <p>Asbestos Management Timetable</p> <p>A Timetable indicating when various aspects of the AMP need to be implemented by.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 4           | <p>Asbestos Management Records</p> <p>Section set aside for record keeping.</p> <p>It is recommended that the following information be filed in <i>Section 4</i>:</p> <ul style="list-style-type: none"> <li>▪ Records of re-inspections and review of the AMP;</li> <li>▪ Reports of asbestos removal and clean-up works;</li> <li>▪ Asbestos clearance certification and air monitoring reports;</li> <li>▪ Reports of inspections by an Asbestos Consultant;</li> <li>▪ Work Permits;</li> <li>▪ Reports of accidental damage and clean-up procedures;</li> <li>▪ Details of licensed asbestos removal contractors;</li> <li>▪ Details of staff &amp; tenant briefings;</li> <li>▪ Details of contractor inductions; &amp;</li> <li>▪ Asbestos scope of works, work outlines, procedures and specifications.</li> </ul> |

### Important

It would be prudent to file any past asbestos related documentation with this manual, including any previous asbestos survey reports and registers.

## 1.3 Asbestos Materials On-Site within Hospitals and Community Centres

| NCAHS Properties     | Asbestos Containing Materials |              |                               |                           |            |       |
|----------------------|-------------------------------|--------------|-------------------------------|---------------------------|------------|-------|
|                      | Fibre-Cement Sheeting         | Pipe Lagging | Vinyl Floor Tiles or Linoleum | Electrical Backing Boards | Fire Doors | Other |
| Alstonville          | x                             | x            | x                             | x                         | x          | x     |
| Ballina              | ✓                             | x            | ✓                             | x                         | ✓          | x     |
| Banglow              | ✓                             | x            | x                             | x                         | x          | x     |
| Bellbrook            | x                             | x            | x                             | x                         | x          | x     |
| Bellingen            | ✓                             | ✓            | x                             | x                         | ✓          | ✓     |
| Bonalbo              | ✓                             | x            | ✓                             | x                         | x          | x     |
| Bowraville Health    | ✓                             | x            | x                             | x                         | x          | x     |
| Byron Bay            | ✓                             | x            | x                             | x                         | ✓          | x     |
| Camden Haven         | ✓                             | x            | x                             | ✓                         | x          | x     |
| Casino               | ✓                             | x            | ✓                             | ✓                         | x          | ✓     |
| Coffs Harbour        | ✓                             | x            | ✓                             | ✓                         | x          | x     |
| Coraki               | ✓                             | ✓            | ✓                             | ✓                         | x          | x     |
| Crescent Head        | ✓                             | x            | x                             | x                         | x          | x     |
| Dorrigo              | ✓                             | x            | x                             | ✓                         | x          | x     |
| Evans Head           | ✓                             | x            | x                             | x                         | x          | x     |
| Goonellabah          | ✓                             | x            | x                             | x                         | x          | ✓     |
| Grafton              | ✓                             | ✓            | ✓                             | ✓                         | ✓          | ✓     |
| Kempsey              | ✓                             | ✓            | ✓                             | ✓                         | x          | ✓     |
| Kingscliff           | x                             | x            | x                             | x                         | x          | x     |
| Kyogle               | ✓                             | x            | x                             | x                         | x          | x     |
| Lismore              | ✓                             | ✓            | ✓                             | ✓                         | ✓          | ✓     |
| Macksville           | ✓                             | ✓            | x                             | x                         | x          | ✓     |
| Maclean              | ✓                             | ✓            | ✓                             | ✓                         | x          | x     |
| Miriwinni            | x                             | x            | x                             | x                         | x          | x     |
| Mullumbimby          | ✓                             | ✓            | x                             | x                         | x          | ✓     |
| Murwillumbah         | ✓                             | x            | ✓                             | ✓                         | ✓          | ✓     |
| Nimbin               | ✓                             | x            | x                             | x                         | x          | x     |
| Port Macquarie       | ✓                             | ✓            | x                             | ✓                         | ✓          | x     |
| Sawtell              | ✓                             | x            | x                             | x                         | x          | x     |
| Tweed Heads Hospital | ✓                             | x            | x                             | ✓                         | ✓          | ✓     |
| Urbenville           | ✓                             | ✓            | x                             | x                         | x          | ✓     |
| Urunga               | ✓                             | x            | x                             | x                         | x          | x     |
| Wauchope             | ✓                             | x            | ✓                             | x                         | x          | x     |
| Woolgoolga           | x                             | x            | x                             | ✓                         | x          | x     |

Hospitals and Community Health Centres

# SECTION 2 – ASBESTOS MANAGEMENT PLAN

## 2. Introduction

### 2.1 Purpose of this Asbestos Management Plan

The success of any option involving asbestos containing materials remaining in-situ is dependent on the need to ensure the asbestos remains undisturbed and in good condition.

As such, the purpose of this Asbestos Management Plan (AMP) is to ensure that all practicable steps are taken to prevent, or minimise the risk of exposure to asbestos containing materials, for all occupants of the site. This is driven by state legislation and is completed through the identification and listing of the known and typical locations of the asbestos materials and the implementation of appropriate control measures including engineering and administrative systems.

To accomplish this directive, the AMP specifies work practices and procedures to:

- Maintain the asbestos containing materials in good condition;
- Ensure implementation of hazard control strategies;
- Monitor the condition of the asbestos containing materials; &
- Minimise the possibility of accidental damage to asbestos containing materials or release of asbestos fibres.

The AMP must be made available to, and understood by, all participants involved in the management and operation of the site. The appropriate personnel at the site should be aware of the presence of the asbestos containing materials and the need to ensure they remain undisturbed. They should also understand their role in achieving this.

### 2.2 Objectives of this Asbestos Management Plan

The AMP represents an integrated risk management approach to ensure that practicable steps are taken to prevent or minimise the risk of exposure to asbestos containing materials in the Hospitals and Community Health Centres.

The AMP therefore:

- Outlines the necessary actions to control the risk as required by state legislation.
- Identifies and describes the administrative line of authority for the site, outlining responsibilities, procedures and systems for the effective management and control of asbestos-containing materials.
- Establishes a timetable for the review and assessment of the asbestos-containing materials.
- Where appropriate instigates a work permit system, which ensures that any proposed maintenance, installation, alteration or renovation at the site is notified to the Management Plan Controllers.
- Requires that all participants involved in the management and operations at the site are clearly informed and where necessary trained to manage the asbestos risks.
- The asbestos register forms an integral part of an effective AMP. The AMP and Asbestos Register must be made available as required for inspection by facility occupants, other employers, employees, union representatives, government representatives, contractors and maintenance personnel.

## 2.3 Legislative Requirements

This AMP is designed to assist North Coast Area Health Services in fulfilling the company's general obligation to ensure the health and safety of employees, contractors, visitors and others accessing the site. The AMP also addresses specific asbestos related legislative requirements and guidelines in approved industry standards.

Should this AMP conflict with any legislative requirements, the state legislation will prevail.

The following legislation and industry standard documentation are relevant to this AMP and are to be construed as forming an integral part of this AMP:

- *Occupational Health and Safety Act 2000* (NSW);
- *Occupational Health and Safety Regulation 2001* (NSW);
- *Code of Practice for the Safe Removal of Asbestos* 2<sup>nd</sup> Edition [NOHSC:2002 (2005)]; &
- *Code of Practice for the Management and Control of Asbestos in Workplaces* [NOHSC:2018 (2005)].

## 2.4 Organisational Responsibilities

The AMP is an operation and maintenance program designed to ensure that future works at the Hospitals and Community Health Centres do not result in asbestos-related risks. All asbestos-related activities carried out in the centre shall be employed under the auspices of the AMP, and the following key personnel are responsible for its implementation:

### 2.4.1 Management Plan Controllers

The Management Plan Controller is responsible for the management and supervision of asbestos related issues and supervision of asbestos-related tasks at the Hospitals and Community Health Centres.

This function is to be appointed at each site by the Facility Manager to the Management Plan Controller.

The following tasks are to be conducted by the Management Plan Controller:

- Maintain the Asbestos Register and ensure that the asbestos containing materials are regularly re-assessed to comply with the *NSW Occupational Health and Safety Regulation, 2001* and the *NOHSC Code of Practice for the Management and Control of Asbestos in Workplaces* [NOHSC: 2018 (2005)]. Asbestos materials are to be inspected generally every year (or sooner if risk assessment identify the need to undertake them more regularly);
- Maintain the AMP and ensure the AMP is reviewed whenever the Asbestos Register is reviewed;
- Liaise with facility occupants, contractors and maintenance personnel and ensure that all contractors whose work may impact on asbestos containing materials are informed of the presence of asbestos in the facility;
- Administer asbestos inductions for contractors, and other key personnel as necessary as per NCAHS policies and procedures;
- Inform occupants of all asbestos remedial works and air monitoring results as per NCAHS policies and procedures;
- Engage a licensed asbestos removal contractor as required by state legislative requirements to conduct asbestos abatement works;
- Administer the Permit to Work system as per NCAHS policies and procedures;
- Install asbestos warning signage and labels to ensure asbestos containing materials are not accidentally disturbed;
- Prior to renovation or demolition works, ensure materials identified as containing asbestos are safely removed from any proposed work area or appropriately contained so as to prevent accidental damage;
- Ensure exposure to asbestos is kept as low as reasonably achievable and that no person is exposed to airborne asbestos fibres in excess of the exposure standard;
- Ensure asbestos-related records are maintained in this AMP. Documentation must be archived for an indefinite period and be accessible to Workplace Health and Safety representatives if requested. Section 4 of this Asbestos Manual is to be used to file asbestos related documentation on an on-going basis including summaries of asbestos register updates, asbestos removal specifications, contractor SWMS, air monitoring and clearance inspection certificates and asbestos waste disposal documents.

### 2.4.2 Facility Occupants

All facility occupants or nominated representatives must notify the Management Plan Controller of proposed refurbishment, demolition or maintenance works that involves the disturbance of the building fabric/structure or areas where asbestos containing materials

exist. Facility occupants must notify the management plan controller if asbestos materials are in poor condition or if there are materials suspected of containing asbestos.

#### 2.4.3 Contractors

All contractors working at the site shall be responsible for ensuring that works are conducted in accordance with the AMP and all permits and inductions have been conducted.

Contractors must notify the management plan controller if asbestos materials are in poor condition or if there are materials suspected of containing asbestos.

Contractors must supply a Safe Work Method Statement (SWMS) prior to conducting any maintenance works on asbestos containing materials.

Contractors must ensure proper safety procedures are followed and works are conducted in accordance with all relevant legislative requirements and best industry practice.

#### 2.4.4 Asbestos Consultant

The Management Plan Controller may use the services of a suitably qualified occupational hygiene (asbestos) consultant after consultation and approval from Area Physical Resources to assist in the following areas:

- Conduct surveys to assess risk involved with proposed works where disturbance of asbestos containing material is likely to occur prior to commencing proposed works and regular review of asbestos containing material as required by state legislation;
- Develop 'Scope of Works' documentation for removal of asbestos containing materials;
- Provide occupational hygienist services during asbestos abatement works (ie airborne monitoring, clearance certificates);
- Review the AMP on a regular basis.

#### 2.4.5 WorkCover NSW

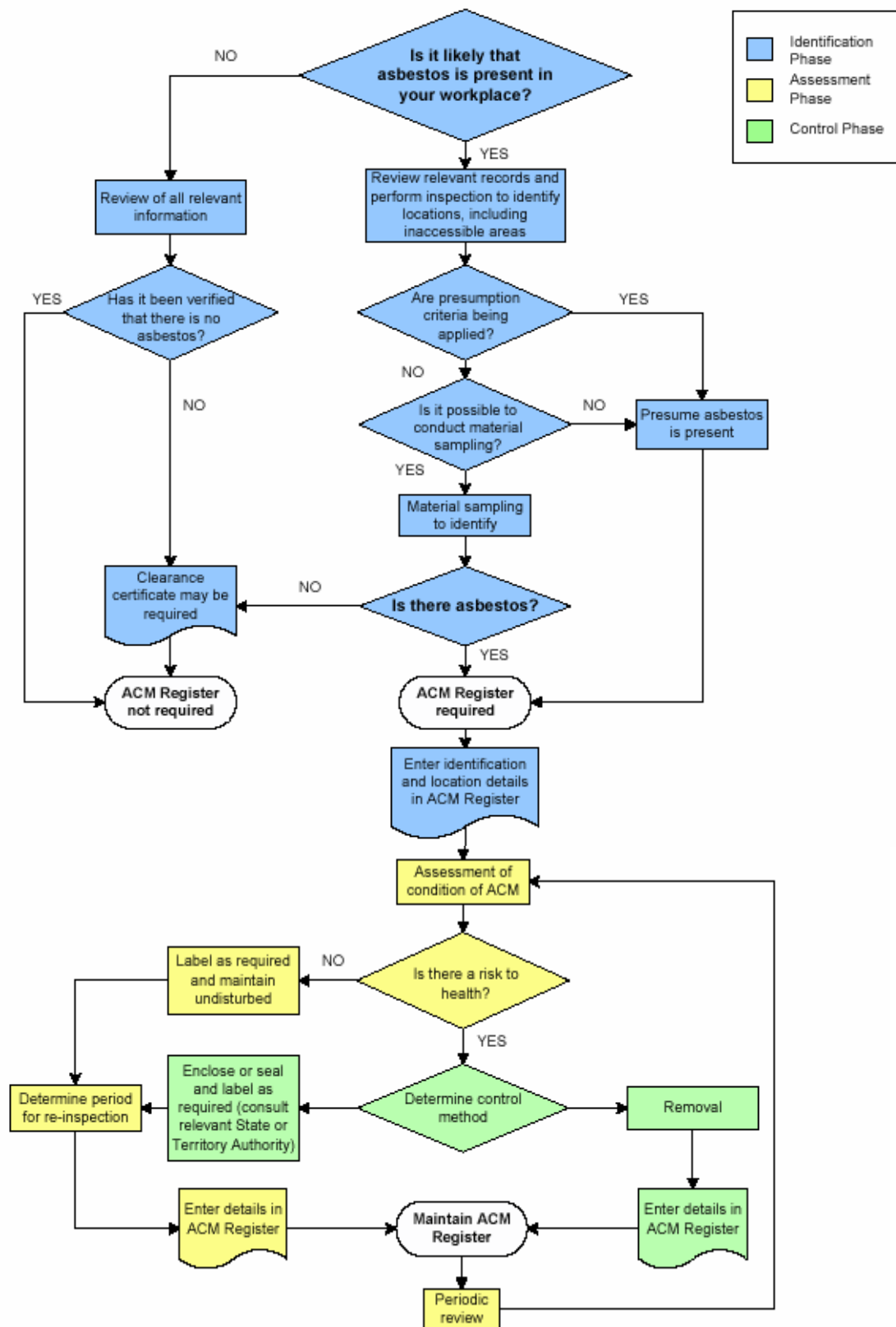
WorkCover New South Wales administers and enforces the asbestos related state legislation. The NSW *Occupational Health and Safety Regulation, 2001* requires building owners to identify, assess and control risks arising from asbestos materials in buildings. The NSW *Occupational Health and Safety Act 2000* also details the overriding general obligation of various parties including employers, self-employed persons and persons in control of workplaces to ensure the workplace health and safety of persons affected by their work activities. The Act and Regulation as such essentially requires the implementation of an asbestos management plan.

WorkCover New South Wales inspectors may request access to asbestos related documentation from time to time. The NSW *Occupational Health and Safety Act 2000* outlines the powers of inspectors.

#### 2.4.6 Licensed Asbestos Removal Contractor

The Management Plan Controller may use the services of a licensed asbestos removal contractor as prescribed by state legislation, after consultation and approval from Area Physical Resource to conduct asbestos abatement works. The asbestos removal contractor must perform all works in accordance with licensing requirements and standard industry practice.

Figure 1. General principles of an asbestos management plan



This figure outlines the process Identifying, Assessing and Controlling asbestos materials in developing an asbestos management plan.

Source: Code of Practice for the Management & Control of Asbestos in Workplaces [NOHSC:2018(2005)]

## 2.5 Remedial Options

NAA conducted an asbestos materials inspection report for NCAHS sites in April – September 2006 (NAA Ref: SN0042:47909) to identify materials, assess the condition and to provide remedial options for the asbestos materials. Typical materials that were identified are as follows:

- ☐ Fire Doors;
- ☐ Asbestos cement sheeting;
- ☐ Pipe lagging;
- ☐ Vinyl floor tiles or linoleum; &
- ☐ Electrical backing boards.

The majority of these materials that were assessed in the inspection survey were found to be in good condition, however, some materials require remediation within 6 months.

A range of control measures are available for the abatement of the asbestos materials identified. The selection of the appropriate control measure is based on the assessment risk for each specific location. These measures include:

- ☐ Leave and maintain in existing condition.
- ☐ Repair and maintain in good condition.
- ☐ Enclose asbestos or synthetic mineral fibre material by providing a barrier such as a box enclosure or steel cladding.
- ☐ Remove by approved methods under controlled conditions.
- ☐ Labelling of asbestos materials that are to remain in situ should be undertaken where practical to ensure that the asbestos materials are not damaged inadvertently by maintenance contractors etc.

All asbestos materials that were assessed in the survey should be labelled with asbestos warning labels, if they have not been labelled already. See Section 2.16 for the types of labels that will be utilised in conjunction with NCAHS policies and procedures. The asbestos materials must be re-inspected on a yearly basis to ensure the materials are kept in good condition and that there is no damage of the materials.

All asbestos containing materials with a Priority Rating of P2 and P3A must be removed by a licensed asbestos contractor, AS-1 (friable and bonded) or AS-2 (bonded only) by June 2008 and December 2008 respectively. Asbestos containing materials with a Priority Rating of P3B or P4 must be reassessed as set out in the asbestos management plan timetable.

## 2.6 Proposed Refurbishment or Demolition

In the event of any proposed refurbishment or demolition works, an asbestos refurbishment/demolition risk assessment & scope of works documentation must be carried out. This will specify appropriate work procedures and identify necessary asbestos abatement works required.

The Asbestos Risk Management Report should not be used for the purposes of costing for removal or programming of future refurbishment or demolition works unless accompanied by an appropriate and site-specific scope of works as part of an asbestos management and abatement program.

## 2.7 Contractor Asbestos Induction

All contractors and maintenance personnel visiting the site must report to the Management Plan Controller prior to commencing any works. The Management Plan Controller will provide a brief induction course for the site or building, examine the works to be performed and advise what can, and cannot, be done. The induction will include the dissemination of the following information:

- Parts of the hospitals and community centres that are known to contain asbestos containing materials;
- North Coast Area Health Services has an asbestos register and Asbestos Management Plan for the site and these are made available on site to all contractors for reference;
- The Asbestos Management Plan provides direction on how to work safely with the asbestos containing materials and work on site is controlled by the Permit to Work system;
- Any asbestos abatement works must be approved by the Management Plan Controller and conducted by suitably qualified contractors;
- During normal routine maintenance work, external contractors and other personnel must report any residual, deteriorating or damaged asbestos containing materials to the Management Plan Controller as soon as possible so that the appropriate corrective action can be initiated;
- There is no guarantee that all asbestos containing materials have been identified on site due to access limitations and any suspect materials encountered during building, demolition or maintenance works must also be reported to the Management Plan Controller.

Details of contractors or other personnel who have attended the induction are to be kept on site in Section 4 of this Asbestos Manual.

## 2.8 Work Permit System

### 2.8.1 When is a work permit required?

Prior to performing any works in the facility that may impact on the building fabric / structure, it must be ascertained if the works will disturb, or potentially disturb, any asbestos containing materials. As such the contractor / internal staff must obtain a Work Permit from the Management Plan Controller when either of the following applies.

- The Asbestos Register has identified or suspects the presence of asbestos containing materials in the area of the proposed works.
- The area where proposed works are to be conducted has not been fully assessed with regard to the presence of asbestos containing materials.

### 2.8.2 Why is a work permit required?

The Work Permit is required to ensure that future works at the site are conducted in a controlled manner to prevent the accidental disturbance of asbestos containing materials located at the site.

Any works likely to disturb the building fabric require the completion of the Requisition for Work Request Form. During the completion of the Requisition for Work Request Form, it is to be determined if an Asbestos Work Permit is required by the Management Plan Controller.

The Management Plan Controller must assess all Requisitions for Work and determine whether the requested works will impact on any asbestos containing materials.

If the works are likely to impact on asbestos containing materials the Management Plan Controller will direct that an Asbestos Work Permit be required for the works and subsequently Forms 2 and Forms 3 must be filled out.

Examples of the Asbestos Work Permit forms are located overleaf.

## FORM 1 – INTERNAL REQUISITION FOR WORKS (RFW) FORM

This form is to be filled out prior to any works within the hospital or community health centre and given to the Management Plan Controller.

**REQUISITION FOR WORK****HOSPITAL** \_\_\_\_\_ **REQUISITION AA** 642094**WARD/DEPARTMENT** \_\_\_\_\_ **DATE** \_\_\_\_\_**ORIGINAL AND DUPLICATE COPIES TO BE SENT TO MAINTENANCE DEPARTMENT****REQUIRED****ASSET No.** \_\_\_\_\_

(THIS IS REQUIRED FOR PROMPT PROCESSING YOUR REQUEST,  
AND CAN BE FOUND ON THE EQUIPMENT  
OR LIST HELD IN YOUR OFFICE)

|  |
|--|
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |

**FOR FURTHER DETAILS CONTACT** \_\_\_\_\_**REQUESTED BY** \_\_\_\_\_**APPROVED BY** \_\_\_\_\_**AUTHORISED OFFICER****FOR MAINTENANCE DEPARTMENT USE****JOB No.****DATE RECEIVED****PRIORITY**

|  |  |  |  |  |  |
|--|--|--|--|--|--|
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

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## FORM 2 - WORK REQUEST FORM FOR CONTRACTORS AND INTERNAL STAFF

Any internal staff / contractors, prior to commissioning works likely to disturb the building fabric or structure, must complete this work request form.

## Section 1 – Contractor / Internal Staff to Complete

|                                                    |                  |
|----------------------------------------------------|------------------|
| Date:                                              | Reference No:    |
| Primary Location (e.g. Hospital or Health Centre): |                  |
| Secondary Location (Building/Department):          |                  |
| Start Date:                                        | Completion Date: |
| Proposed Works:                                    |                  |
|                                                    |                  |
|                                                    |                  |
|                                                    |                  |
|                                                    |                  |
| Contractor:                                        |                  |
| Signed By:                                         | Position:        |
| Print Name:                                        | Date:            |

## Section 2 - Management Plan Controller to Complete

|                                                                                        |                                                          |
|----------------------------------------------------------------------------------------|----------------------------------------------------------|
| Is the location clearly defined                                                        | YES <input type="checkbox"/> NO <input type="checkbox"/> |
| Proposed plans appended                                                                | YES <input type="checkbox"/> NO <input type="checkbox"/> |
| Is asbestos containing material present in work area (refer current Asbestos Register) | YES <input type="checkbox"/> NO <input type="checkbox"/> |
| Is contractor inducted to site and qualified to conduct works.                         | YES <input type="checkbox"/> NO <input type="checkbox"/> |
| Risk management consultant advised                                                     | YES <input type="checkbox"/> NO <input type="checkbox"/> |
| Are permits required (if YES state type/s of permits)                                  | YES <input type="checkbox"/> NO <input type="checkbox"/> |
| Asbestos <input type="checkbox"/>                                                      | Hot Works <input type="checkbox"/>                       |
| Other (nominate) <input type="checkbox"/><br>.....                                     |                                                          |
| Asbestos likely to be disturbed:                                                       |                                                          |
|                                                                                        |                                                          |
|                                                                                        |                                                          |
| Approval to Proceed.                                                                   | YES <input type="checkbox"/> NO <input type="checkbox"/> |
| Signed:                                                                                |                                                          |
| Dated:                                                                                 |                                                          |

Original to be retained by the Management Plan Controller.

Copy to be retained by Instigator of Work Request.

## FORM 3 - ASBESTOS WORK PERMIT FOR CONTRACTORS AND INTERNAL STAFF

The contractor or internal staff must retain a copy of the permit & work request form on site for the duration of works.

|                                                                                                                                               |                                                          |
|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| WORK REQUEST FORM REFERENCE: _____                                                                                                            |                                                          |
| VALID UNTIL (Insert Date) _____                                                                                                               |                                                          |
| Description of asbestos containing materials:<br>_____<br>_____                                                                               |                                                          |
|                                                                                                                                               |                                                          |
| Has work specification altered from Work Request Form ?                                                                                       | YES <input type="checkbox"/> NO <input type="checkbox"/> |
| Will asbestos consultant be required ?                                                                                                        | YES <input type="checkbox"/> NO <input type="checkbox"/> |
| Is contractor inducted / qualified for all tasks ? (if no, sub-contractors must be listed)                                                    | YES <input type="checkbox"/> NO <input type="checkbox"/> |
| Will a licensed asbestos removal contractor be required ?                                                                                     | YES <input type="checkbox"/> NO <input type="checkbox"/> |
| Company Name: _____                                                                                                                           |                                                          |
| Supervisor: _____                                                                                                                             |                                                          |
| Contact Number: _____                                                                                                                         |                                                          |
| SPECIFIC PERMIT REQUIREMENTS (TICK AS REQUIRED)                                                                                               |                                                          |
| Scope of works / technical specification for asbestos removal ?                                                                               | YES <input type="checkbox"/> NO <input type="checkbox"/> |
| Contractor Work Method Statement (WMS) issued for review and approval prior to commencement of work ?                                         | YES <input type="checkbox"/> NO <input type="checkbox"/> |
| Other Items (list details):<br>_____<br>_____                                                                                                 |                                                          |
|                                                                                                                                               |                                                          |
| CONTRACTOR ACCEPTANCE STATEMENT                                                                                                               |                                                          |
| I have read and understood the permit requirements and will undertake to work in accordance with all necessary procedures and specifications. |                                                          |
| Signed: _____                                                                                                                                 |                                                          |
| Print Name and Position: _____                                                                                                                |                                                          |
| Date: _____                                                                                                                                   |                                                          |

## WORK PERMIT COMPLETION

(to be completed by the Management Plan Controlled & Contractor)

|                                                                                                                                                                                                                                       |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Date Work Completed: _____                                                                                                                                                                                                            |  |
| Clearance certificate, asbestos air monitoring results and asbestos waste disposal tickets received (list reference numbers if applicable)<br>_____<br>_____                                                                          |  |
|                                                                                                                                                                                                                                       |  |
| I am satisfied that the works have been completed in accordance with the work permit and the area has been cleaned to the required standard. Inspections and asbestos air monitoring confirm that the area can be safely re-occupied. |  |
| Management Plan Controller Signature: _____                                                                                                                                                                                           |  |
| Date: _____                                                                                                                                                                                                                           |  |
| Contractor Signature: _____                                                                                                                                                                                                           |  |
| Date: _____                                                                                                                                                                                                                           |  |

## 2.9 Abatement of Asbestos Containing Materials

Materials identified as containing asbestos should be removed from any proposed work area or satisfactorily contained prior to commencement of refurbishment or demolition works. It is recommended that a specific scope of works documentation be produced to manage the asbestos abatement project.

The removal of asbestos must be controlled within a strict asbestos removal technical specification. This specification should include:

- Work area isolation (barrier protection, buffer zone);
- Removal methods (friable/non-friable);
- Contamination control methods (negative air pressure/decontamination procedures); and
- Health and safety procedures (respiratory protection, working at heights, scaffolding).

Asbestos abatement works must be performed in accordance with all legislative requirements. The statutory requirements for asbestos removal are prescribed in the *NSW Occupational Health and Safety Regulation 2001* (sections 257 to 261). The *NOHSC Code of Practice for the Safe Removal of Asbestos* [NOHSC: 2002 (2005)] provides useful guidelines for the safe removal of friable and bonded asbestos containing materials.

Depending on the nature of the abatement operations, a licensed asbestos removal contractor may need to be engaged (refer *Licensed Asbestos Removal Contractor* below).

A suitably qualified consultant must provide independent verification of the work practices, engineering controls and standard of workmanship employed during removal operations (refer *Occupational Hygiene Consulting Services* below).

## 2.10 Asbestos Removal Contractor

As prescribed by the *NSW Occupational Health and Safety Regulation 2001*, only a licensed asbestos removal contractor (i.e. a contractor holding a business certificate for the prescribed activity of asbestos removal) can conduct works involving the removal of asbestos materials at the site.

The asbestos removal contractor must prepare a safe work method statement (SWMS), detailing the proposed work methodologies to be used to safely and effectively remove, enclose or encapsulate (as directed by Management Plan Controller) the asbestos containing materials. This SWMS must be submitted to the Management Plan Controller and/or the nominated Occupational Hygienist for review and approval prior to commencing work on site.

## 2.11 Occupational Hygiene Consulting Services

### 2.11.1 Contractor SWMS Review

The contractor SWMS must be reviewed to ensure it adequately covers the safe working requirements of the project. The Management Plan Controller may request such a review be undertaken by a suitably qualified occupational hygienist.

### 2.11.2 Visual Inspections

A suitably qualified occupational hygiene consultant must inspect the removal works and a clearance certificate for each work area must be issued. Further, the Management Plan Controller may require asbestos abatement works to be supervised on site full time by the consultant.

### 2.11.3 Asbestos Fibre Air Monitoring

Asbestos fibre air monitoring must be conducted during the removal of friable asbestos materials. The Management Plan Controller may also require asbestos fibre air monitoring during the removal of, or work on, bonded asbestos products such as asbestos cement

sheeting and vinyl floor tiles. The requirements for air monitoring must be established prior to commencement of works.

All asbestos fibre air monitoring must be conducted in accordance with the NOHSC *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres* [NOHSC: 3003 (2005)] by a NATA-accredited laboratory.

#### 2.11.4 Bulk Sample Analysis

Suspected asbestos containing materials may from time to time be uncovered at the site (e.g. during demolition works). Where additional sample analysis is required, analysis will normally be by polarised light microscopy, supplemented with dispersion staining. Other approved methods may be used where required. All analysis work must be conducted by a NATA accredited laboratory.

## 2.12 Transport and Disposal of Asbestos Waste

Waste containing asbestos must be stored and transported in a receptacle designed to prevent the release of its contents. This can include standard 200µm thick clear polythene labelled asbestos waste bags or suitably sealed and labelled drums.

The transportation and disposal of asbestos waste is regulated by the *Protection of the Environment Operations (Waste) Regulation 1996* (NSW). Provisions are made for asbestos waste under Schedule 1, Part 3, Division 2, Section 29 of the Regulation.

Asbestos waste must be disposed of at an approved landfill and the asbestos licensed contractor must provide the waste disposal documents after the asbestos waste has been transported to the registered waste facility. Sign off on the work permit and attach a copy of the waste disposal ticket to the work permit once asbestos removal works have been completed.

### 2.13 Changed Conditions and Damaged Asbestos Containing Materials

Changed conditions and damaged asbestos containing materials are to be reported to the Management Plan Controller as soon as possible. The Management Plan Controller will instigate the appropriate corrective action and arrange to have the damage assessed if necessary and the materials repaired or removed as required.

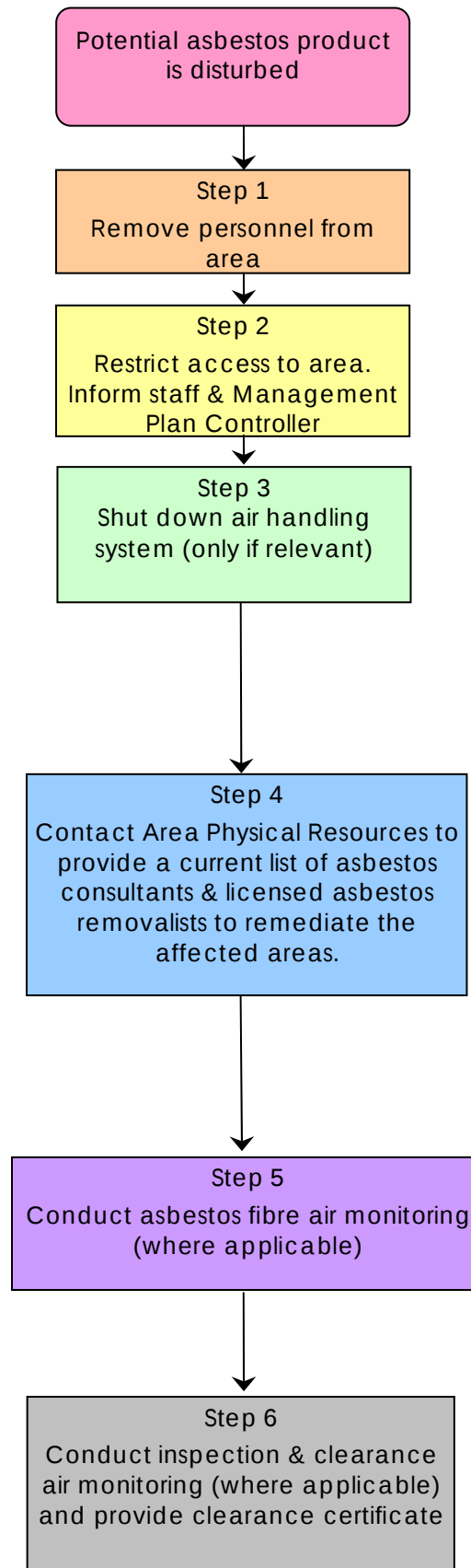
The emergency response procedure for damaged asbestos or suspected asbestos containing materials is detailed overleaf.

A list of licensed asbestos removal contractors that can be contacted to provide emergency clean up works is provided through Area Physical Resources. For all removal works, Area Physical Resources must be contacted.

All reports of damaged asbestos containing materials are to be kept on file in Section 4 of the Asbestos Manual.

## 2.14 Asbestos Disturbance – Emergency Response Procedure

In the event that an activity involves the accidental disturbance of asbestos containing materials, the following steps should be followed:



| Step | Who                                                                            | Steps / Notes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------|--------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | Management Plan Controller                                                     | Remove personnel from areas considered to be at risk in relation to asbestos exposure.<br><br>Go to Step 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 2    | Management Plan Controller                                                     | Access to the area should be controlled and sign posted to prevent unauthorised persons entering the disturbance area. Inform appropriate personnel.<br><br>Go to Step 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 3    | Management Plan Controller                                                     | The air handling system should be shut-off and / or temporarily modified to prevent the distribution of fibres from the area to other areas in the building (if relevant).<br><br>Go to Step 4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 4    | Management Plan Controller, Asbestos Consultant & Licensed Asbestos Removalist | Contact Area Physical Resources to organise an asbestos consultant to confirm the presence of asbestos containing materials and to advise on appropriate control strategies.<br><br>Following advice from the asbestos consultant, engage a licensed asbestos removalist to undertake asbestos clean up works.<br><br>Removal works must adhere to the following legislation: <ul style="list-style-type: none"> <li>• <i>New South Wales Occupational Health and Safety Act 2000</i>;</li> <li>• <i>New South Wales Occupational Health and Safety Regulations 2001</i>; &amp;</li> <li>• <i>Code of Practice for the Safe Removal of Asbestos 2<sup>nd</sup> Edition [NOHSC:2002(2005)]</i>.</li> </ul><br>Go to Step 5. |
| 5    | Asbestos Consultant                                                            | Asbestos fibre air monitoring may be required outside the area of the asbestos contamination while clean-up works are being conducted to ensure that dust levels do not exceed acceptable levels (where applicable).<br><br>Go to Step 6.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 6    | Asbestos Consultant & Management Plan Controller                               | After clean-up works have been completed, asbestos fibre air monitoring (where applicable) shall be conducted in the affected area to ensure that asbestos fibre levels are at an acceptable level. Only when the asbestos level is acceptable and the clean up works have been conducted to a satisfactory standard and a clearance certificate has been issued, shall personnel be allowed to reoccupy the affected area.                                                                                                                                                                                                                                                                                                |

## 2.15 Unknown or Suspected Asbestos Containing Materials

It is not possible to guarantee that every source of asbestos has been located within the centre. The following should also be noted:

As parts of the centre were constructed at a time when asbestos containing materials were widely used in building materials, it is possible that materials, which may be concealed within inaccessible areas/voids, may not have been located during previous surveys. Such inaccessible areas fall into a number of categories.

- Locations behind locked doors;
- In set ceilings or wall cavities;
- Those areas accessible only by dismantling equipment or performing minor localised demolition works;
- Service shafts, ducts etc, concealed within the building structure;
- Voids or internal areas of plant, equipment, air conditioning ducts etc;
- Totally inaccessible areas such as voids and cavities created and intimately concealed within the building structure. These voids are only accessible during major demolition works; and
- Height restricted areas.

Destructive surveying and sampling techniques were not employed to gain access to those areas listed above. Consequently, without substantial demolition of a building, it is not possible to guarantee that every source of asbestos has been detected.

Therefore prior to any refurbishment works, further investigations should be performed using destructive survey sampling techniques. During the course of normal site works care should be exercised when entering any previously inaccessible areas and it is imperative that work cease pending further sampling if materials suspected of containing asbestos or unknown materials are encountered.

Therefore if any asbestos containing materials are encountered which are not listed in the Asbestos Survey Register or are suspected of containing asbestos, work should cease immediately pending further inspection, sampling and assessment by a suitably experienced asbestos consultant.

## 2.16 Signage and Labelling

### 2.16.1 Labelling of Asbestos Materials

The NOHSC Code of Practice for the Management and Control of Asbestos in Workplaces states that all identified or presumed ACM should be clearly labelled. All labels should comply with AS 1319 Safety Signs for the Occupational Environment.

The NOHSC also recommends those areas of a workplace which contain ACM be signposted with warning signs to ensure that the asbestos is not unknowingly disturbed without the correct precautions being undertaken.

The asbestos warning label should be affixed to an asbestos based material or access point to an area containing friable asbestos materials in order to warn personnel of potential exposure to asbestos fibres if the material is disturbed or if this area is accessed without precautions being taken.

A competent person should determine the number and positions of the labels and signposts required.

The practicability of labelling non-friable asbestos items in public access areas should be carefully considered in relation to the potential risks of exposure. Labelling is not always considered appropriate for asbestos situations in occupied areas as signs warning of the presence of asbestos may cause unnecessary alarm and disruption. For this reason, coded warning labels such as colours, etc may be more appropriate in these areas when used in conjunction with a suitable awareness program.

The type and location (indoor/outdoor) of the asbestos containing material are some factors that need to be assessed prior to applying a label. Some labels will not stick to certain surfaces, and may have to be glued into place. Generally vinyl stickers suffice for indoor areas, and external surfaces require labels to be made of PVC or other hard-wearing material.

The labelling / signposting program should be undertaken as part of the implementation of the asbestos management plan.

Please note that Label 1 should be used in public areas, such as waiting rooms, where asbestos materials have been identified, as to not alert the general public. This label is sufficient to alert contractors of the material. Labels 2 and 3 should be used in areas out of public view. Refer to NCAHS policies and procedures for further information.

Examples of typical asbestos warning labels are shown below:

Asbestos Warning Labels



Label 1: This label is to be used in public areas where asbestos materials have been identified

Labels 2 & 3: These labels are to be used in areas out of public view where asbestos materials have been identified

## 2.17 Asbestos Awareness Training

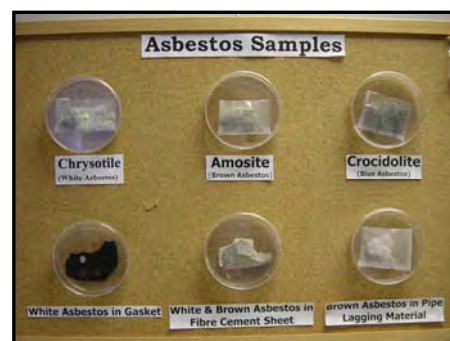
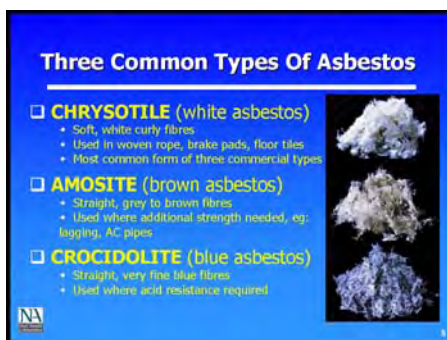
It is recommended that selected Management Plan Controllers be provided with asbestos awareness training. It may be prudent to also offer training to contractors (especially long term / regular contractors) to increase their awareness of asbestos issues at the site. The information should cover the following aspects:

- Background information on asbestos;
- Asbestos related health effects and risks (eg asbestos is only a health risk when disturbed, resulting in the release of asbestos fibres into the airborne environment which may be subsequently inhaled);
- Asbestos-related legislation;
- Sources and general locations of asbestos containing materials in the hospitals and community health centres (as noted in the asbestos register);
- An overview of the structure and function of the AMP (i.e. a summary of how asbestos issues are managed at the centre); and
- Responsibilities of the building owner, management, facility occupants, staff and contractors.

The training should be designed to serve a number of purposes:

- To increase the awareness and knowledge of building management personnel with respect to their statutory obligations in respect of the management of asbestos hazards at the site;
- To provide valuable introductory information to Management plan Controller who may have a requirement to handle asbestos or enter areas where asbestos is present; and
- To assist the employer in addressing their statutory duties in respect of providing information, instruction and training to those potentially exposed to risk.

Specific PowerPoint based asbestos awareness training packages can be developed to meet such training requirements (typical information provided at such training sessions is illustrated below).



## 2.18 Asbestos Overview

### Definitions

#### Asbestos

Asbestos is defined as the fibrous form of mineral silicates. There are two major groups of asbestos:

- **Serpentine** group minerals: chrysotile (white asbestos); and
- **Amphibole** group minerals: amosite (brown asbestos), crocidolite (blue asbestos) and minor forms including actinolite, tremolite and anthophyllite.

Asbestos minerals have separable long fibres that are strong and flexible enough to be spun and woven and are heat resistant. Because of these characteristics, asbestos has been historically used for a wide range of manufactured goods, mostly in building materials, friction products, heat-resistant fabrics, gaskets, and coatings.

Asbestos mainly affects the lungs, and breathing in high levels of asbestos fibres over time can lead to a number of diseases and cancers (asbestos is a known carcinogen). The aim is to minimise the risk of exposure to asbestos containing materials. This management plan aids in ensuring that asbestos containing materials in the workplace are managed in such a way that they do not become damaged and increase the risk of exposure.

### Types of Asbestos Containing Materials

Asbestos containing materials can be classified into two main groups, friable and non-friable.

Asbestos containing materials considered to be friable are materials that can be crumbled, pulverised or reduced to powder by hand pressure when dry. Friable asbestos materials are considered higher risk materials as they are more readily damaged, thereby possibly releasing fibres into the air.

Those that cannot be pulverised are considered as non-friable and generally considered 'low' risk if properly handled. Non-friable asbestos containing materials are often referred to as 'bonded', where asbestos is bound in a bonded matrix such as portland cement (eg fibre cement sheeting) or various resin/binders (eg vinyl floor tiles).

The following table details the common material found in the two groups:

| Friable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Non-Friable (bonded)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>▪ Sprayed or trowelled asbestos materials applied to ceilings, walls and other surfaces for fire-rating purposes. This material is often referred to as 'limpet asbestos'.</li> <li>▪ Asbestos-containing insulation on pipes, boilers, tanks, ducts etc which is often referred to as asbestos lagging.</li> <li>▪ Asbestos paper products, millboard in electrical switchboards or underlaying lining for linoleum or vinyl floor coverings.</li> <li>▪ Asbestos textiles, braided asbestos, rope, tape, gaskets etc (note that rope and millboard are potentially friable).</li> <li>▪ Asbestos millboard from inside auxiliary switchboxes/fuse boards or air-conditioning reheat boxes.</li> <li>▪ In ground/buried asbestos material.</li> </ul> | <ul style="list-style-type: none"> <li>▪ Asbestos cement sheeting and corrugated sheeting products, i.e. cement-like or concrete-like products (eg 'fibro' and 'super six roofing' –see description below).</li> <li>▪ Vinyl tiles and vinyl flooring mastic and associated adhesives.</li> <li>▪ Asbestos containing compounds, gaskets and mastic from mechanical fittings, and roofing membranes.</li> <li>▪ Electrical switchboards containing compressed asbestos tar electrical boards, asbestos-cement sheeting, and asbestos rope to spark arresters.</li> <li>▪ Roofing sealants, bituminous membranes, tar composites and similar materials were occasionally mixed with asbestos materials.</li> </ul> |

## Asbestos Cement Products

Asbestos cement (AC) products are the most common type of asbestos containing material and were installed extensively throughout commercial, industrial and residential facilities up until the early to mid 1980's. AC products were manufactured in numerous shapes and sizes and include asbestos cement sheeting eaves, awnings, walls, ceilings and gables/cladding, corrugated/moulded asbestos-cement sheeting roofs, ridge-capping and gutters.

AC products are examples of non-friable asbestos material, and typically contain between 5–15% of asbestos by weight, and usually chrysotile asbestos (white asbestos) is the main type of asbestos present.

Asbestos cement products are comprised of Portland cement, sand, binders and various combinations of both asbestos and non-asbestos fibres. The asbestos is tightly bound or encapsulated within the cement matrix of the products.

In general, the asbestos fibres cannot be released to become airborne in significant quantities unless the cement matrix is disturbed or disrupted as in the case of cutting AC products with power saws etc.



Photograph No.1: An example of an asbestos cement sheet roof



Photograph No.2: An example of an asbestos cement sheet boiler flue

## Asbestos Fire Doors

Older fire doors contain an asbestos-core to provide fire protection. These doors are usually encased in a wooden or metal frame, and the core material is not exposed. Once the core is exposed however, the material is in a friable state and is easily damaged.

A number of fire doors were found on-site that were installed prior to 1980 and are known to contain asbestos cores. All doors assessed appear in reasonable, un-damaged condition. It is unlikely that fire doors would present a significant hazard unless damaged or during demolition. It is important that the doors, as with other asbestos-containing materials, are inspected regularly, to ensure they are not damaged inadvertently.



Photograph No.3: An example of an asbestos containing fire door

## Electrical Backing Boards

Older electrical switchboards and electrical backing boards often contain asbestos in the form of bundled Chrysotile (white asbestos) fibres, suspended in a compressed tar-like material.

This form of asbestos product is considered non-friable, and the release of fibres is highly unlikely.

The NSW Electrical Industry Asbestos Awareness Committee (EIACC) in conjunction with NSW WorkCover have produced a number of guidelines for working on electrical meter panels/backing boards. Guidelines on identifying asbestos containing boards and procedures for working on such materials are documented and are available from the NSW WorkCover website ([www.workcover.nsw.gov.au](http://www.workcover.nsw.gov.au)).



Photograph No.4: An example of a suspected asbestos containing electrical backing board

### Asbestos containing Vinyl Floor Tiles

Vinyl tiles and linoleum flooring manufactured prior to 1984 may contain asbestos in varying quantities in a well-bound cohesive matrix. Asbestos-containing vinyl floor and wall coverings do not present a significant health risk unless they are sanded or otherwise mechanically abraded so as to release asbestos fibres.



Photograph No. 5: An example of asbestos containing vinyl floor tiles

Hospitals and Community Health Centres

# SECTION 3 – SITE SPECIFIC ASBESTOS MANAGEMENT TIMETABLE



## Asbestos Management Plan Timetable North Coast Area Health Services



### Ballina Hospital and Community Health Centre



February 2007

## Ballina Hospital and Community Health Centre

## Asbestos Management – Timetable for action



| Action Required                         | Location                                                                      | Material       | Condition | Works Completed by (Company) | Sign-Off | Date Completed |
|-----------------------------------------|-------------------------------------------------------------------------------|----------------|-----------|------------------------------|----------|----------------|
| Repair exposed core or remove fire door | BA02 Accident and Emergency Operating Theatres – Corridor adjacent X-Ray Room | Fire Door Core | Poor      |                              |          |                |

By 2008

The above actions must be completed by 30 June 2008.

All items completed? \_\_\_\_\_ (Sign Off)

## P2 Risk Areas – Photographs

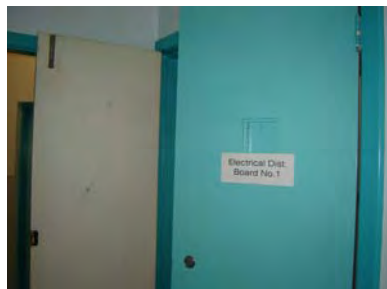


Photo 1. Asbestos containing fire door with exposed core



By 2008

| Action Required        | Location                                                           | Material | Condition | Works Completed by (Company) | Sign-Off | Date Completed |
|------------------------|--------------------------------------------------------------------|----------|-----------|------------------------------|----------|----------------|
| Labelling              | All Asbestos-materials on-site that have not already been labelled | Asbestos | N/A       |                              |          |                |
| Update Register        | Entire site                                                        | Asbestos | N/A       |                              |          |                |
| Update Management Plan | Entire Site                                                        | Asbestos | N/A       |                              |          |                |

The above actions must be completed by 31 December 2008.

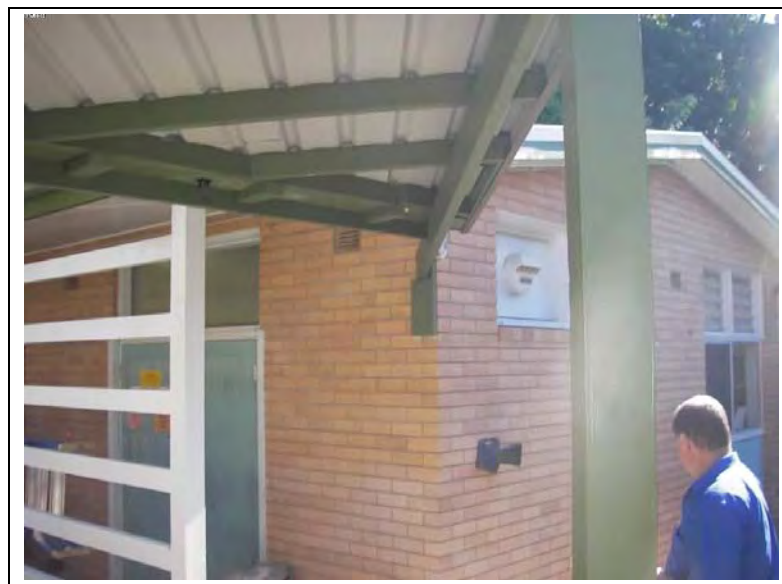
All items completed? \_\_\_\_\_ (Sign Off)



## Asbestos Management Plan Timetable North Coast Area Health Services



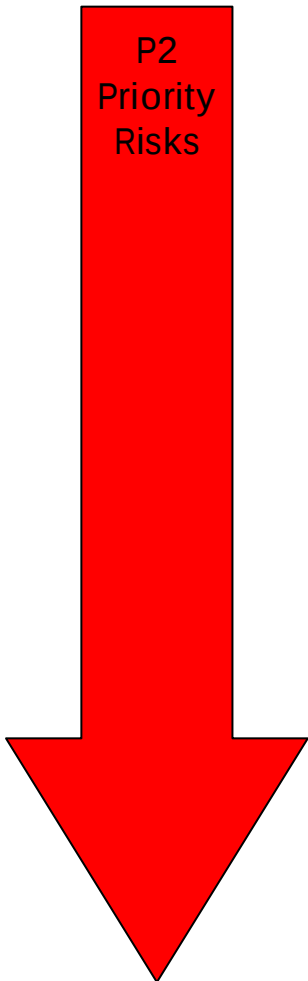
### Bellingen Hospital



February 2007

## Bellingden Hospital

## Asbestos Management – Timetable for action



**P2  
Priority  
Risks**

| Action Required                  | Location                                                                                                      | Material     | Condition | Works Completed by (Company) | Sign-Off | Date Completed |
|----------------------------------|---------------------------------------------------------------------------------------------------------------|--------------|-----------|------------------------------|----------|----------------|
| Removal of asbestos pipe lagging | NB306 Hewitt Block Roof Space – throughout X-Ray Department Room, Emergency Waiting Area and behind Tank Room | Pipe Lagging | Poor      |                              |          |                |
| Removal of asbestos pipe lagging | NB306 Hewitt Block, Level 1 – Sub floor void south of main store                                              | Pipe Lagging | Poor      |                              |          |                |
| Removal of asbestos pipe lagging | NB306 Hewitt Block, Level 1 – Mortuary                                                                        | Pipe Lagging | Poor      |                              |          |                |
| Removal of asbestos pipe lagging | NB306 Hewitt Block, Level 1 – Kitchen, Kitchen Office, Cool Room and Dry Store ceiling space                  | Pipe Lagging | Poor      |                              |          |                |
| Removal of asbestos pipe lagging | NB306 Hewitt Block, Level 1 – Staff Toilet ceiling space and pipe work                                        | Pipe Lagging | Poor      |                              |          |                |
| Removal of asbestos pipe lagging | NB306 Hewitt Block, Dining Room – ceiling space                                                               | Pipe Lagging | Poor      |                              |          |                |
| Removal of asbestos pipe lagging | NB306 Hewitt Block, Air Conditioning Plantroom                                                                | Pipe Lagging | Poor      |                              |          |                |



| Action Required                  | Location                                                      | Material     | Condition | Works Completed by (Company) | Sign-Off | Date Completed |
|----------------------------------|---------------------------------------------------------------|--------------|-----------|------------------------------|----------|----------------|
| Removal of asbestos pipe lagging | NB306 Hewitt Block, Level 2 – Services Riser Duct             | Pipe Lagging | Poor      |                              |          |                |
| Removal of asbestos pipe lagging | NB306 Hewitt Block, Exterior, Floor Ducts Loading to Workshop | Pipe Lagging | Poor      |                              |          |                |

By 2008

The above actions must be completed by 30 June 2008.

All items completed? \_\_\_\_\_ (Sign Off)

#### P2 Risk Areas – Photographs



Photo 1. Asbestos containing pipe lagging within Hewitt Block



By 2008

| Action Required        | Location                                                           | Material | Condition | Works Completed by (Company) | Sign-Off | Date Completed |
|------------------------|--------------------------------------------------------------------|----------|-----------|------------------------------|----------|----------------|
| Labelling              | All Asbestos-materials on-site that have not already been labelled | Asbestos | N/A       |                              |          |                |
| Update Register        | Entire site                                                        | Asbestos | N/A       |                              |          |                |
| Update Management Plan | Entire Site                                                        | Asbestos | N/A       |                              |          |                |

The above actions must be completed by 31 December 2008.

All items completed? \_\_\_\_\_ (Sign Off)



## Asbestos Management Plan Timetable North Coast Area Health Services



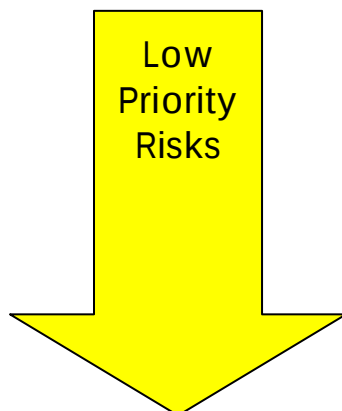
### Bonalbo Hospital and Community Health Centre



February 2007

## Bonalbo Hospital and Community Health Centre

## Asbestos Management – Timetable for action



By 2008

| Action Required        | Location                                                           | Material | Condition | Works Completed by (Company) | Sign-Off | Date Completed |
|------------------------|--------------------------------------------------------------------|----------|-----------|------------------------------|----------|----------------|
| Labelling              | All Asbestos-materials on-site that have not already been labelled | Asbestos | N/A       |                              |          |                |
| Update Register        | Entire site                                                        | Asbestos | N/A       |                              |          |                |
| Update Management Plan | Entire Site                                                        | Asbestos | N/A       |                              |          |                |

The above actions must be completed by 31 December 2008.

All items completed? \_\_\_\_\_ (Sign Off)



## Asbestos Management Plan Timetable North Coast Area Health Services



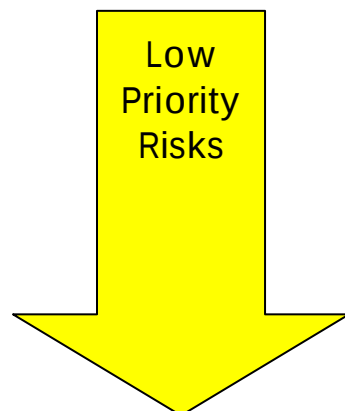
### Bowraville Community Health Centre



February 2007

## Bowraville Community Health Centre

### Asbestos Management – Timetable for action



By 2008

| Action Required        | Location                                                           | Material | Condition | Works Completed by (Company) | Sign-Off | Date Completed |
|------------------------|--------------------------------------------------------------------|----------|-----------|------------------------------|----------|----------------|
| Labelling              | All Asbestos-materials on-site that have not already been labelled | Asbestos | N/A       |                              |          |                |
| Update Register        | Entire site                                                        | Asbestos | N/A       |                              |          |                |
| Update Management Plan | Entire Site                                                        | Asbestos | N/A       |                              |          |                |

The above actions must be completed by 31 December 2008.

All items completed? \_\_\_\_\_ (Sign Off)



## Asbestos Management Plan Timetable North Coast Area Health Services



### Byron Bay Hospital and Community Health Centres



February 2007

## Byron Bay Hospital

## Asbestos Management – Timetable for action



By 2008

| Action Required           | Location                                                      | Material       | Condition | Works Completed by (Company) | Sign-Off | Date Completed |
|---------------------------|---------------------------------------------------------------|----------------|-----------|------------------------------|----------|----------------|
| Remove damaged fire doors | BB01 Operating Theatres and Accident and Emergency Department | Fire Door Core | Poor      |                              |          |                |

The above actions must be completed by 30 June 2008.

All items completed? \_\_\_\_\_ (Sign Off)

## P2 Risk Areas – Photographs



Photo 1. Asbestos containing fire doors at entrance of BB01 Operating Theatres

Low  
Priority  
Risks

By 2008

| Action Required        | Location                                                           | Material | Condition | Works Completed by (Company) | Sign-Off | Date Completed |
|------------------------|--------------------------------------------------------------------|----------|-----------|------------------------------|----------|----------------|
| Labelling              | All Asbestos-materials on-site that have not already been labelled | Asbestos | N/A       |                              |          |                |
| Update Register        | Entire site                                                        | Asbestos | N/A       |                              |          |                |
| Update Management Plan | Entire Site                                                        | Asbestos | N/A       |                              |          |                |

The above actions must be completed by 31 December 2008.

All items completed? \_\_\_\_\_ (Sign Off)



## Asbestos Management Plan Timetable North Coast Area Health Services

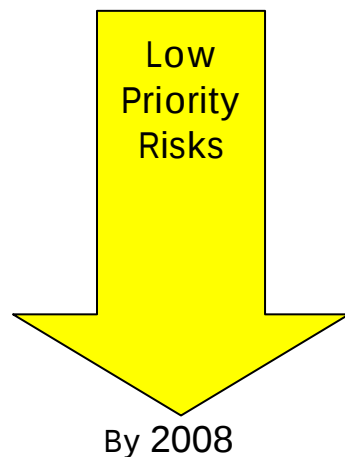


### Camden Haven Community Health Centre



February 2007

Camden Haven Community Health Centre  
 Asbestos Management – Timetable for action



| Action Required        | Location                                                           | Material | Condition | Works Completed by (Company) | Sign-Off | Date Completed |
|------------------------|--------------------------------------------------------------------|----------|-----------|------------------------------|----------|----------------|
| Labelling              | All Asbestos-materials on-site that have not already been labelled | Asbestos | N/A       |                              |          |                |
| Update Register        | Entire site                                                        | Asbestos | N/A       |                              |          |                |
| Update Management Plan | Entire Site                                                        | Asbestos | N/A       |                              |          |                |

The above actions must be completed by 31 December 2008.

All items completed? \_\_\_\_\_ (Sign Off)



## Asbestos Management Plan Timetable North Coast Area Health Services



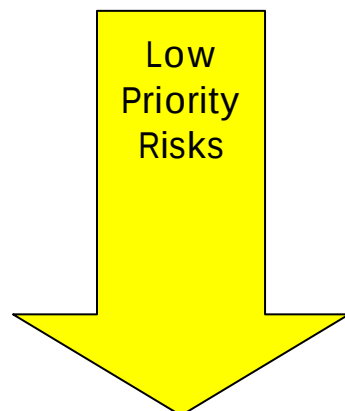
### Casino Hospital and Community Health Centre



February 2007

## Casino Hospital and Community Health Centre

## Asbestos Management – Timetable for action



By 2008

| Action Required        | Location                                                           | Material | Condition | Works Completed by (Company) | Sign-Off | Date Completed |
|------------------------|--------------------------------------------------------------------|----------|-----------|------------------------------|----------|----------------|
| Labelling              | All Asbestos-materials on-site that have not already been labelled | Asbestos | N/A       |                              |          |                |
| Update Register        | Entire site                                                        | Asbestos | N/A       |                              |          |                |
| Update Management Plan | Entire Site                                                        | Asbestos | N/A       |                              |          |                |

The above actions must be completed by 31 December 2008.

All items completed? \_\_\_\_\_ (Sign Off)



## Asbestos Management Plan Timetable North Coast Area Health Services



### Coffs Harbour Hospital and Community Health Centre



February 2007

## Coffs Harbour Hospital and Community Health Centre

## Asbestos Management – Timetable for action



By 2008

| Action Required        | Location                                                           | Material | Condition | Works Completed by (Company) | Sign-Off | Date Completed |
|------------------------|--------------------------------------------------------------------|----------|-----------|------------------------------|----------|----------------|
| Labelling              | All Asbestos-materials on-site that have not already been labelled | Asbestos | N/A       |                              |          |                |
| Update Register        | Entire site                                                        | Asbestos | N/A       |                              |          |                |
| Update Management Plan | Entire Site                                                        | Asbestos | N/A       |                              |          |                |

The above actions must be completed by 31 December 2008.

All items completed? \_\_\_\_\_ (Sign Off)



## Asbestos Management Plan Timetable North Coast Area Health Services



### Coraki Hospital



February 2007

## Coraki Hospital

## Asbestos Management – Timetable for action



By 2008

| Action Required        | Location                                                           | Material | Condition | Works Completed by (Company) | Sign-Off | Date Completed |
|------------------------|--------------------------------------------------------------------|----------|-----------|------------------------------|----------|----------------|
| Labelling              | All Asbestos-materials on-site that have not already been labelled | Asbestos | N/A       |                              |          |                |
| Update Register        | Entire site                                                        | Asbestos | N/A       |                              |          |                |
| Update Management Plan | Entire Site                                                        | Asbestos | N/A       |                              |          |                |

The above actions must be completed by 31 December 2008.

All items completed? \_\_\_\_\_ (Sign Off)



## Asbestos Management Plan Timetable North Coast Area Health Services

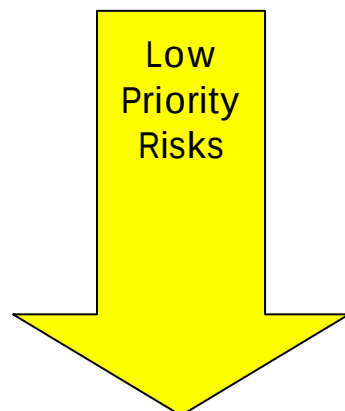


### Crescent Head Community Health Centre



February 2007

Crescent Head Community Health Centre  
 Asbestos Management – Timetable for action



By 2008

| Action Required        | Location                                                           | Material | Condition | Works Completed by (Company) | Sign-Off | Date Completed |
|------------------------|--------------------------------------------------------------------|----------|-----------|------------------------------|----------|----------------|
| Labelling              | All Asbestos-materials on-site that have not already been labelled | Asbestos | N/A       |                              |          |                |
| Update Register        | Entire site                                                        | Asbestos | N/A       |                              |          |                |
| Update Management Plan | Entire Site                                                        | Asbestos | N/A       |                              |          |                |

The above actions must be completed by 31 December 2008.

All items completed? \_\_\_\_\_ (Sign Off)



## Asbestos Management Plan Timetable North Coast Area Health Services



### Dorrigo Hospital and Community Health Centres



February 2007

## Dorrigo Hospital and Community Health Centres

## Asbestos Management – Timetable for action



| Action Required                                | Location                                                | Material                                   | Condition | Works Completed by (Company) | Sign-Off | Date Completed |
|------------------------------------------------|---------------------------------------------------------|--------------------------------------------|-----------|------------------------------|----------|----------------|
| Repair exposed holes within soft board ceiling | NB8007 MPS; Ground Level, Room adjacent Main Switchroom | Asbestos soft board ceiling (double lined) | Poor      |                              |          |                |

By 2008

The above actions must be completed by 30 June 2008.

All items completed? \_\_\_\_\_ (Sign Off)

## P2 Risk Areas – Photographs



Photo 1. Asbestos soft board ceiling in Main Switchroom

**P3A  
Priority  
Risks**

| Action Required               | Location                               | Material                    | Condition | Works Completed by (Company) | Sign-Off | Date Completed |
|-------------------------------|----------------------------------------|-----------------------------|-----------|------------------------------|----------|----------------|
| Repair damaged areas of eaves | NB8002 Community Health Centre – Eaves | Asbestos cement sheet eaves | Fair      |                              |          |                |

**By 2008**

The above actions must be completed by 31 December 2008.

All items completed? \_\_\_\_\_ (Sign Off)

#### P3 Risk Areas – Photographs



Photo 1. NB8002 Community Health Centre – Eaves

Low  
Priority  
Risks

By 2008

| Action Required        | Location                                                           | Material | Condition | Works Completed by (Company) | Sign-Off | Date Completed |
|------------------------|--------------------------------------------------------------------|----------|-----------|------------------------------|----------|----------------|
| Labelling              | All Asbestos-materials on-site that have not already been labelled | Asbestos | N/A       |                              |          |                |
| Update Register        | Entire site                                                        | Asbestos | N/A       |                              |          |                |
| Update Management Plan | Entire Site                                                        | Asbestos | N/A       |                              |          |                |

The above actions must be completed by 31 December 2008.

All items completed? \_\_\_\_\_ (Sign Off)



## Asbestos Management Plan Timetable North Coast Area Health Services



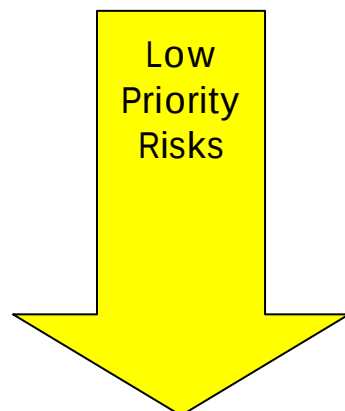
### Evans Head Community Health Centre



February 2007

# Evans Head Community Health Centre

## Asbestos Management – Timetable for action



By 2008

| Action Required        | Location                                                           | Material | Condition | Works Completed by (Company) | Sign-Off | Date Completed |
|------------------------|--------------------------------------------------------------------|----------|-----------|------------------------------|----------|----------------|
| Labelling              | All Asbestos-materials on-site that have not already been labelled | Asbestos | N/A       |                              |          |                |
| Update Register        | Entire site                                                        | Asbestos | N/A       |                              |          |                |
| Update Management Plan | Entire Site                                                        | Asbestos | N/A       |                              |          |                |

The above actions must be completed by 31 December 2008.

All items completed? \_\_\_\_\_ (Sign Off)



## Asbestos Management Plan Timetable North Coast Area Health Services



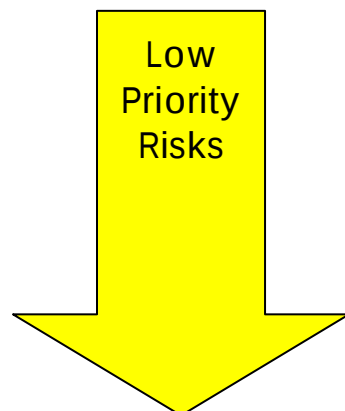
### Goonellabah Linen Services Centre



February 2007

## Goonellabah Linen Services Centre

## Asbestos Management – Timetable for action



By 2008

| Action Required        | Location                                                           | Material | Condition | Works Completed by (Company) | Sign-Off | Date Completed |
|------------------------|--------------------------------------------------------------------|----------|-----------|------------------------------|----------|----------------|
| Labelling              | All Asbestos-materials on-site that have not already been labelled | Asbestos | N/A       |                              |          |                |
| Update Register        | Entire site                                                        | Asbestos | N/A       |                              |          |                |
| Update Management Plan | Entire Site                                                        | Asbestos | N/A       |                              |          |                |

The above actions must be completed by 31 December 2008.

All items completed? \_\_\_\_\_ (Sign Off)



## Asbestos Management Plan Timetable North Coast Area Health Services



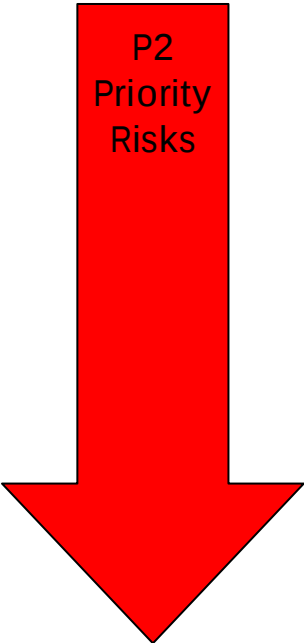
### Grafton Hospital and Community Health Centres



February 2007

## Grafton Hospital and Community Health Centres

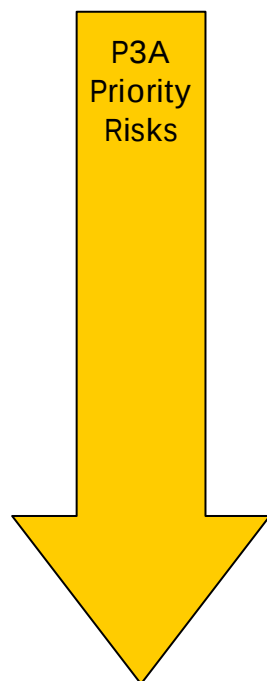
## Asbestos Management – Timetable for action

| <br><b>P2<br/>Priority<br/>Risks</b> | Action Required           | Location                                                                     | Material                                        | Condition | Works Completed by (Company) | Sign-Off | Date Completed |
|------------------------------------------------------------------------------------------------------------------------|---------------------------|------------------------------------------------------------------------------|-------------------------------------------------|-----------|------------------------------|----------|----------------|
|                                                                                                                        | Remove damaged ceiling    | GBN Accommodation Centre; Level 2, Electrical Cupboard 227 – Ceiling         | Asbestos soft board ceiling                     | Poor      |                              |          |                |
|                                                                                                                        | Remove debris and residue | GBS Conference Centre; GBS1013 Communication Cupboard, Ceiling joists debris | Asbestos debris and residue                     | Poor      |                              |          |                |
|                                                                                                                        | Repair damage to ceiling  | GBU Workshop and Boiler; Offices into Workshop – Ceiling                     | Asbestos soft board ceiling                     | Poor      |                              |          |                |
|                                                                                                                        | Remove debris             | GBW West Wing; Level 1, Plantroom T39, South Wall Cavity                     | Asbestos containing packing insulation material | Poor      |                              |          |                |

By 2008

The above actions must be completed by 30 June 2008.

All items completed? \_\_\_\_\_ (Sign Off)



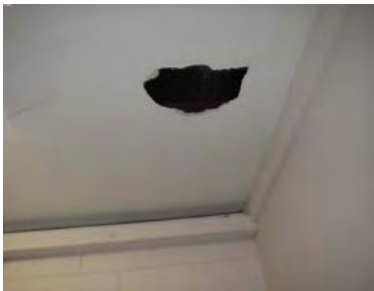
| Action Required                           | Location                                                                       | Material                                   | Condition | Works Completed by (Company) | Sign-Off | Date Completed |
|-------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------|-----------|------------------------------|----------|----------------|
| Repair damaged areas of walls and ceiling | AQD Administration Block; Outside Toilets, Washroom – walls and ceiling        | Flat fibre cement sheet walls and ceilings | Fair      |                              |          |                |
| Repair damaged areas of ceiling           | GBE Watman Block; Lift Motor Room, Ceiling                                     | Flat fibre cement sheet ceiling            | Fair      |                              |          |                |
| Repair damaged areas of ceiling           | GBK Kitchen; Exterior, Surrounding – Fascia board panelling and canopy ceiling | Flat fibre cement sheet fascia and ceiling | Fair      |                              |          |                |
| Remove damaged ceiling                    | GBP Pathology; Electric cupboard – Ceiling                                     | Flat fibre cement sheet ceiling            | Fair      |                              |          |                |

By 2008

The above actions must be completed by 31 December 2008.

All items completed? \_\_\_\_\_ (Sign Off)

## P2 Risk Areas – Photographs

|                                                                                   |                                                                                       |                                                                                    |                                                                                     |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |      |  |  |
| Photo 1. GBN Accommodation Centre; Level 2, Electrical Cupboard 227 – Ceiling     | Photo 2. GBS Conference Centre; GBS1013 Communication Cupboard, Ceiling joists debris | Photo 3. GBU Workshop and Boiler; Offices into Workshop – Ceiling                  | Photo 4. GBW West Wing; Level 1, Plantroom T39, South Wall Cavity                   |

## P3A Risk Areas – Photographs

|                                                                                         |                                                                                         |                                                                                      |
|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|       |       |  |
| Photo 1. GBK Kitchen; Exterior, Surrounding – Fascia board panelling and canopy ceiling | Photo 2. GBK Kitchen; Exterior, Surrounding – Fascia board panelling and canopy ceiling | Photo 3. GBP Pathology; Electric cupboard – Ceiling                                  |

Low  
Priority  
Risks

By 2008

| Action Required        | Location                                                           | Material | Condition | Works Completed by (Company) | Sign-Off | Date Completed |
|------------------------|--------------------------------------------------------------------|----------|-----------|------------------------------|----------|----------------|
| Labelling              | All Asbestos-materials on-site that have not already been labelled | Asbestos | N/A       |                              |          |                |
| Update Register        | Entire site                                                        | Asbestos | N/A       |                              |          |                |
| Update Management Plan | Entire Site                                                        | Asbestos | N/A       |                              |          |                |

The above actions must be completed by 31 December 2008.

All items completed? \_\_\_\_\_ (Sign Off)



## Asbestos Management Plan Timetable North Coast Area Health Services



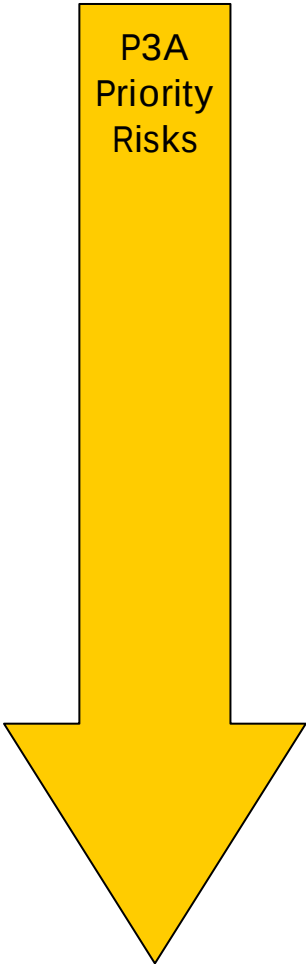
### Kempsey Hospital and Community Health Centres



February 2007

## Kempsey Hospital and Community Health Centres

## Asbestos Management – Timetable for action



**P3A  
Priority  
Risks**

| Action Required                                                                       | Location                                                                           | Material                                             | Condition | Works Completed by (Company) | Sign-Off | Date Completed |
|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------|-----------|------------------------------|----------|----------------|
| Remove sheeting from cupboard                                                         | CBK001 Main Hospital Building; Level 2, Electrical Switch Cupboard                 | Stored asbestos cement sheeting                      | Fair      |                              |          |                |
| Remove asbestos cement debris from ground surface                                     | CBK004 Casement Building; Subfloor, South-east Area                                | Asbestos cement debris on ground surface             | Fair      |                              |          |                |
| Remove asbestos cement debris from ground surface                                     | CBK004 Casement Building; Roof Space, Throughout                                   | Asbestos cement debris on ground surface             | Fair      |                              |          |                |
| Remove asbestos cement debris from ground surface                                     | CBK008 Community Health Building; Roof Space, Above Staff Lunch Room               | Asbestos cement debris on ground surface             | Fair      |                              |          |                |
| Remove asbestos cement debris from ground surface and repair damaged sections of wall | CBK013 Laundry, Boiler House, Workshop; Exterior, Small Shed attached to East Wall | Asbestos cement sheet wall and ground surface debris | Fair      |                              |          |                |

**P3A  
Priority  
Risks**

| Action Required                                   | Location                                         | Material                                 | Condition | Works Completed by (Company) | Sign-Off | Date Completed |
|---------------------------------------------------|--------------------------------------------------|------------------------------------------|-----------|------------------------------|----------|----------------|
| Remove asbestos cement debris from ground surface | CBK016 Doctor's Residence; Sub floor, Throughout | Asbestos cement debris on ground surface | Fair      |                              |          |                |

By 2008

The above actions must be completed by 31 December 2008.

All items completed? \_\_\_\_\_ (Sign Off)

P3A Risk Areas – Photographs

|                                                                                             |                                                                                   |
|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|            |  |
| Photo 1. CBK013 Laundry, Boiler House, Workshop; Exterior, Small Shed attached to East Wall | Photo 2. CBK016 Doctor's Residence; Sub floor, Throughout                         |



By 2008

| Action Required        | Location                                                           | Material | Condition | Works Completed by (Company) | Sign-Off | Date Completed |
|------------------------|--------------------------------------------------------------------|----------|-----------|------------------------------|----------|----------------|
| Labelling              | All Asbestos-materials on-site that have not already been labelled | Asbestos | N/A       |                              |          |                |
| Update Register        | Entire site                                                        | Asbestos | N/A       |                              |          |                |
| Update Management Plan | Entire Site                                                        | Asbestos | N/A       |                              |          |                |

The above actions must be completed by 31 December 2008.

All items completed? \_\_\_\_\_ (Sign Off)



## Asbestos Management Plan Timetable North Coast Area Health Services



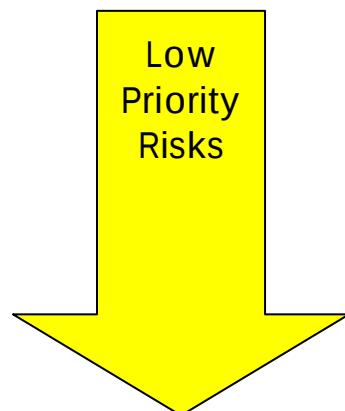
### Kyogle Hospital and Community Health Centre



February 2007

## Kyogle Hospital and Community Health Centre

## Asbestos Management – Timetable for action



By 2008

| Action Required        | Location                                                           | Material | Condition | Works Completed by (Company) | Sign-Off | Date Completed |
|------------------------|--------------------------------------------------------------------|----------|-----------|------------------------------|----------|----------------|
| Labelling              | All Asbestos-materials on-site that have not already been labelled | Asbestos | N/A       |                              |          |                |
| Update Register        | Entire site                                                        | Asbestos | N/A       |                              |          |                |
| Update Management Plan | Entire Site                                                        | Asbestos | N/A       |                              |          |                |

The above actions must be completed by 31 December 2008.

All items completed? \_\_\_\_\_ (Sign Off)



## Asbestos Management Plan Timetable North Coast Area Health Services



### Lismore Hospital and Community Health Centres



February 2007

## Lismore Hospital and Community Health Centres

## Asbestos Management – Timetable for action

|  | Action Required            | Location                                                                    | Material            | Condition | Works Completed by (Company) | Sign-Off | Date Completed |
|-----------------------------------------------------------------------------------|----------------------------|-----------------------------------------------------------------------------|---------------------|-----------|------------------------------|----------|----------------|
|                                                                                   | Remove pipe lagging debris | LB11 Block N; Level 5, Riser Cupboard adjacent to Electrical Cupboard No.34 | Pipe Lagging Debris | Poor      |                              |          |                |

By 2008

The above actions must be completed by 30 June 2008.

All items completed? \_\_\_\_\_ (Sign Off)

## P2 Risk Areas – Photographs



Photo 1. Asbestos containing pipe lagging debris within the pipe riser



**P3A  
Priority  
Risks**

| Action Required                    | Location                                                                                                 | Material                        | Condition | Works Completed by (Company) | Sign-Off | Date Completed |
|------------------------------------|----------------------------------------------------------------------------------------------------------|---------------------------------|-----------|------------------------------|----------|----------------|
| Repair damaged areas of sheeting   | LB36 Mental Health NGD; Subfloor Area, Wall Panelling                                                    | Flat fibre cement sheet walls   | Fair      |                              |          |                |
| Repair or removed damaged sheeting | LB44 Laurel Lodge; Exterior, Both Unit Blocks Stairs to Level 1 Ceiling Underside of Main Stair Platform | Flat fibre cement sheet ceiling | Fair      |                              |          |                |

By 2008

The above actions must be completed by 31 December 2008.

All items completed? \_\_\_\_\_ (Sign Off)



**Low  
Priority  
Risks**

| Action Required        | Location                                                           | Material | Condition | Works Completed by (Company) | Sign-Off | Date Completed |
|------------------------|--------------------------------------------------------------------|----------|-----------|------------------------------|----------|----------------|
| Labelling              | All Asbestos-materials on-site that have not already been labelled | Asbestos | N/A       |                              |          |                |
| Update Register        | Entire site                                                        | Asbestos | N/A       |                              |          |                |
| Update Management Plan | Entire Site                                                        | Asbestos | N/A       |                              |          |                |

By 2008

The above actions must be completed by 31 December 2008.

All items completed? \_\_\_\_\_ (Sign Off)



## Asbestos Management Plan Timetable North Coast Area Health Services



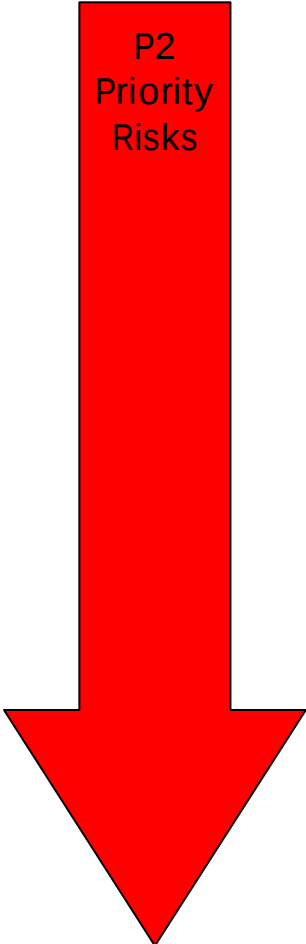
### Macksville Hospital and Community Health Centre



February 2007

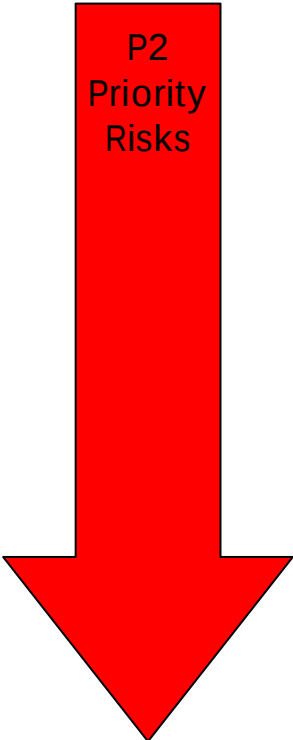
## Macksville Hospital and Community Health Centres

## Asbestos Management – Timetable for action



**P2  
Priority  
Risks**

| Action Required                                                   | Location                                                                                                   | Material                                          | Condition | Works Completed by (Company) | Sign-Off | Date Completed |
|-------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|---------------------------------------------------|-----------|------------------------------|----------|----------------|
| Remove pipe lagging debris and asbestos cement fragments material | NB601 Main Building, Health Campus; Level 2, Roof Space Throughout (concentrated beneath SMF lagged pipes) | Pipe Lagging debris and asbestos cement fragments | Poor      |                              |          |                |
| Remove pipe lagging debris                                        | NB601 Main Building, Health Campus; Ground Level, Public Toilet, Ceiling Space                             | Pipe Lagging Debris                               | Poor      |                              |          |                |
| Remove pipe lagging debris                                        | NB601 Main Building, Health Campus; Ground Level, Lobby Outside Public Toilet, Ceiling Space               | Pipe Lagging Debris                               | Poor      |                              |          |                |
| Remove pipe lagging debris                                        | NB601 Main Building, Health Campus; Ground Level, Hotel Services Coordinator Office, Ceiling Space         | Pipe Lagging Debris                               | Poor      |                              |          |                |
| Remove pipe lagging debris                                        | NB601 Main Building, Health Campus; Ground Level, X-Ray Department, Ceiling Space above Entrance Door      | Pipe Lagging Debris                               | Poor      |                              |          |                |



P2  
Priority  
Risks

| Action Required                | Location                                                                       | Material                | Condition | Works Completed by (Company) | Sign-Off | Date Completed |
|--------------------------------|--------------------------------------------------------------------------------|-------------------------|-----------|------------------------------|----------|----------------|
| Remove pipe lagging debris     | NB601 Main Building, Health Campus; Ground Level, Cleaners Room, Ceiling Space | Pipe Lagging Debris     | Poor      |                              |          |                |
| Remove pipe lagging            | NB601 Main Building, Health Campus; Kitchen, Ceiling Space above Wash Up Area  | Pipe Lagging Debris     | Poor      |                              |          |                |
| Remove pipe lagging debris     | NB601 Main Building, Health Campus; Kitchen, Ceiling Space above Wash Up Area  | Pipe Lagging Debris     | Poor      |                              |          |                |
| Remove pipe lagging            | NB601 Main Building, Health Campus; Sub floor, East Wing                       | Pipe Lagging            | Poor      |                              |          |                |
| Remove pipe lagging and debris | NB602 Agnes Grant Centre; Level 2, Service Riser Duct, Wash Room               | Pipe Lagging and debris | Poor      |                              |          |                |

By 2008

The above actions must be completed by 30 June 2008.

All items completed? \_\_\_\_\_ (Sign Off)

**P3A  
Priority  
Risks**

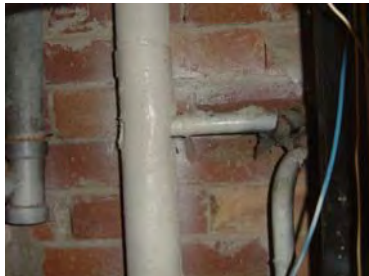
| Action Required                                   | Location                                                                         | Material                                 | Condition | Works Completed by (Company) | Sign-Off | Date Completed |
|---------------------------------------------------|----------------------------------------------------------------------------------|------------------------------------------|-----------|------------------------------|----------|----------------|
| Remove asbestos cement debris from ground surface | ECN Early Childhood Nursing; Exterior, Rear of Building and Sub floor area       | Asbestos cement debris on ground surface | Fair      |                              |          |                |
| Remove asbestos cement debris from ground surface | NB601 Main Building, Health Campus; Subfloor, East Wing below Staff Male Toilets | Asbestos cement debris on ground surface | Fair      |                              |          |                |
| Remove asbestos cement debris from ground surface | NB602 Agnes Grant Centre; Subfloor, Beneath Corridor                             | Asbestos cement debris on ground surface | Fair      |                              |          |                |
| Repair damaged areas of ceiling                   | NB602 Agnes Grant Centre; Level 1, Cupboard C.2                                  | Asbestos cement sheet ceiling            | Fair      |                              |          |                |

**By 2008**

The above actions must be completed by 31 December 2008.

All items completed? \_\_\_\_\_ (Sign Off)

## P2 Risk Areas – Photographs

|                                                                                                                     |                                                                                                             |                                                                                    |
|---------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|                                    |                            |  |
| Photo 1. NB601 Main Building, Health Campus; Level 2, Roof Space Throughout (concentrated beneath SMF lagged pipes) | Photo 2. NB601 Main Building, Health Campus; Ground Level, Hotel Services Coordinator Office, Ceiling Space | Photo 3. NB602 Agnes Grant Centre; Level 2, Service Riser Duct, Wash Room          |

## P3A Risk Areas – Photographs

|                                                                                     |                                                                                           |                                                                                     |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|   |         |  |
| Photo 1. ECN Early Childhood Nursing; Exterior, Rear of Building and Sub floor area | Photo 2. NB601 Main Building, Health Campus; Subfloor, East Wing below Staff Male Toilets | Photo 3. NB602 Agnes Grant Centre; Subfloor, Beneath Corridor                       |

Low  
Priority  
Risks

By 2008

| Action Required        | Location                                                           | Material | Condition | Works Completed by (Company) | Sign-Off | Date Completed |
|------------------------|--------------------------------------------------------------------|----------|-----------|------------------------------|----------|----------------|
| Labelling              | All Asbestos-materials on-site that have not already been labelled | Asbestos | N/A       |                              |          |                |
| Update Register        | Entire site                                                        | Asbestos | N/A       |                              |          |                |
| Update Management Plan | Entire Site                                                        | Asbestos | N/A       |                              |          |                |

The above actions must be completed by 31 December 2008.

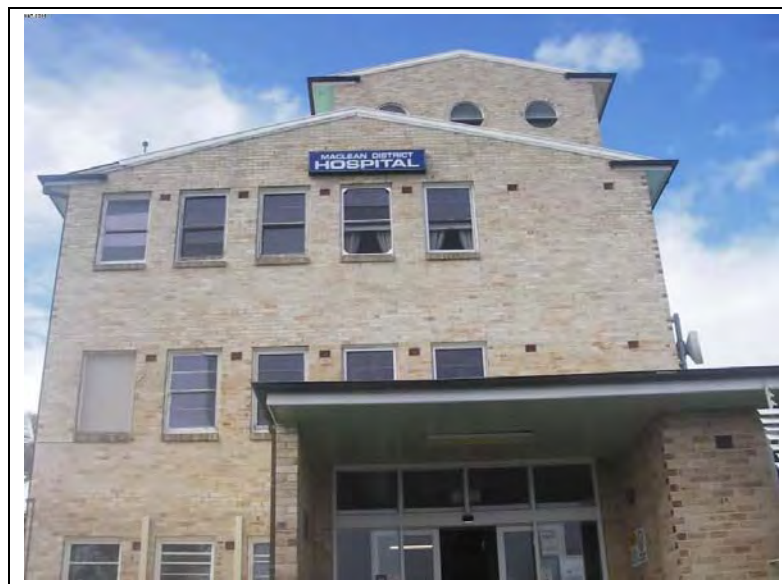
All items completed? \_\_\_\_\_ (Sign Off)



## Asbestos Management Plan Timetable North Coast Area Health Services



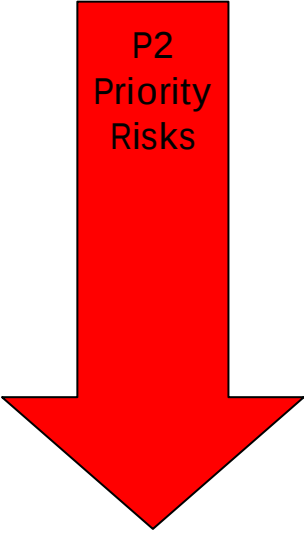
### Macleean Hospital



February 2007

## Maclean Hospital

## Asbestos Management – Timetable for action



**P2  
Priority  
Risks**

| Action Required                              | Location                                                                        | Material                | Condition | Works Completed by (Company) | Sign-Off | Date Completed |
|----------------------------------------------|---------------------------------------------------------------------------------|-------------------------|-----------|------------------------------|----------|----------------|
| Remove pipe lagging debris within Riser Duct | MC01 & MC04 Main Building; Level 1, Ward Kitchen, Pipe Riser Duct               | Pipe Lagging and Debris | Poor      |                              |          |                |
| Remove pipe lagging                          | MC01 & MC04 Main Building; Level 1, A & E Opposite corridor floor, Ceiling Void | Pipe Lagging            | Poor      |                              |          |                |
| Remove pipe lagging                          | MC01 & MC04 Main Building; Floor corridor to Ward, Ceiling Void                 | Pipe Lagging            | Poor      |                              |          |                |

By 2008

The above actions must be completed by 30 June 2008.

All items completed? \_\_\_\_\_ (Sign Off)

Low  
Priority  
Risks

By 2008

| Action Required        | Location                                                           | Material | Condition | Works Completed by (Company) | Sign-Off | Date Completed |
|------------------------|--------------------------------------------------------------------|----------|-----------|------------------------------|----------|----------------|
| Labelling              | All Asbestos-materials on-site that have not already been labelled | Asbestos | N/A       |                              |          |                |
| Update Register        | Entire site                                                        | Asbestos | N/A       |                              |          |                |
| Update Management Plan | Entire Site                                                        | Asbestos | N/A       |                              |          |                |

The above actions must be completed by 31 December 2008.

All items completed? \_\_\_\_\_ (Sign Off)



## Asbestos Management Plan Timetable North Coast Area Health Services

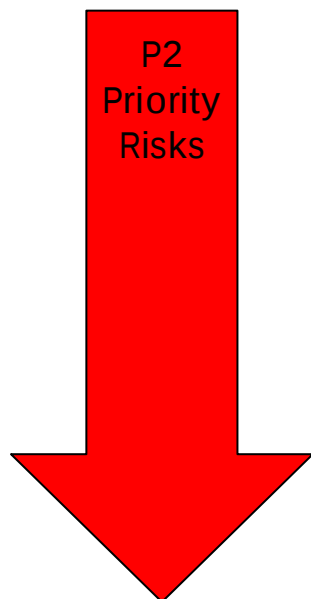


Mullumbimby District War Memorial Hospital

June 2007

## Mullumbimby District War Memorial Hospital

## Asbestos Management – Timetable for action



| Action Required                                   | Location                                                                                   | Material           | Condition | Works Completed by (Company) | Sign-Off | Date Completed |
|---------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------|-----------|------------------------------|----------|----------------|
| Removal of asbestos pipe lagging                  | Main Hospital (MU1), Interior, Air Conditioning Plantroom (MU1102), Hot water pipes        | Pipe Lagging       | Poor      |                              |          |                |
| Ongoing management of sprayed asbestos insulation | Main Hospital (MU1), Interior, Throughout ceiling space, Underside of metal roof           | Sprayed insulation | Poor      |                              |          |                |
| Ongoing management of sprayed asbestos insulation | Community Health Centre (MU2), Interior, Throughout ceiling space, Underside of metal roof | Sprayed insulation | Poor      |                              |          |                |

By 2008

The above actions must be completed by 30 June 2008.

All items completed? \_\_\_\_\_ (Sign Off)

## Ongoing Management of Asbestos Sprayed Insulation

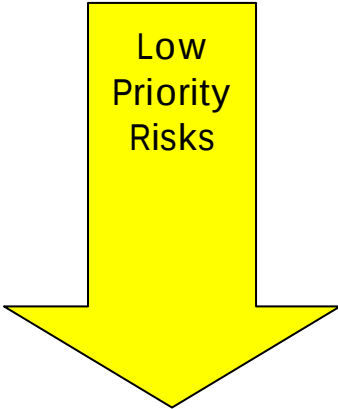
As stated in previous Asbestos Management Plans, provided by PDPM Pty Ltd, the following management steps must be adhered to ensure there is no contamination from the sprayed asbestos insulation:

- ☐ Restrict access to the ceiling spaces of the Main Hospital and the Community Health Centre. If contractors or personnel require access to the ceiling space, ensure the correct Personal Protective Equipment (PPE) is worn such as a P2 disposable half faced mask, disposable coveralls and disposable gloves;
- ☐ Conduct background asbestos fibre air monitoring on a regular basis such as once a month;
- ☐ Visual inspections of the containment cell in the ceiling space, the metal clad roof and the ceiling in the Main Hospital and Community Health Centre. This will ensure there are no penetrations in the construction materials exposing the sprayed asbestos insulation material. These inspections should be conducted on a regular basis such as once a month;
- ☐ Review procedures, policies and management strategies on an annual basis; &
- ☐ Refer to the Emergency Procedures in the NAA's Management Plan if the sprayed asbestos insulation is disturbed.

### P2 Risk Areas – Photographs



Photo 1. Asbestos sprayed insulation on underside of metal roof, Throughout ceiling space of Main Hospital (MU1)



Low  
Priority  
Risks

By 2008

| Action Required        | Location                                                           | Material | Condition | Works Completed by (Company) | Sign-Off | Date Completed |
|------------------------|--------------------------------------------------------------------|----------|-----------|------------------------------|----------|----------------|
| Labelling              | All Asbestos-materials on-site that have not already been labelled | Asbestos | N/A       |                              |          |                |
| Update Register        | Entire site                                                        | Asbestos | N/A       |                              |          |                |
| Update Management Plan | Entire Site                                                        | Asbestos | N/A       |                              |          |                |

The above actions must be completed by 31 December 2008.

All items completed? \_\_\_\_\_ (Sign Off)



## Asbestos Management Plan Timetable North Coast Area Health Services



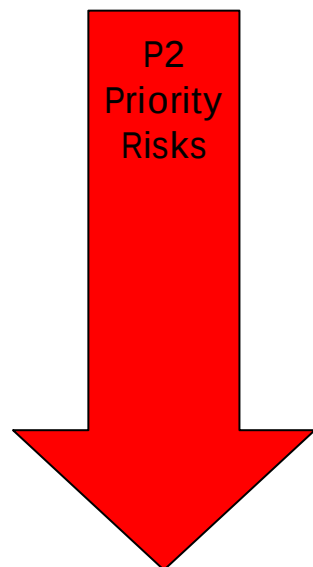
### Murwillumbah Hospital and Community Health Centres



February 2007

## Murwillumbah Hospital and Community Health Centres

## Asbestos Management – Timetable for action



| Action Required                    | Location                                                                                                                                                    | Material                          | Condition | Works Completed by (Company) | Sign-Off | Date Completed |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-----------|------------------------------|----------|----------------|
| Removal of pipe lagging and debris | MW02 Main Hospital; Exterior, Pipe Work Duct Across Road to Kitchen                                                                                         | Pipe Lagging and debris           | Poor      |                              |          |                |
| Remove limpet insulation           | MW02 Main Hospital; Kitchen Lobby, Ceiling Space (undertake full investigation of limpet insulation material within Kitchen Ceiling Space prior to removal) | Limpet Insulation Sprayed to Beam | Poor      |                              |          |                |
| Repair exposed fire door core      | MW03 New Wing – Main Hospital; Stairwell from Basement to Level 4                                                                                           | Fire Door                         | Poor      |                              |          |                |

By 2008

The above actions must be completed by 30 June 2008.

All items completed? \_\_\_\_\_ (Sign Off)



| Action Required                   | Location                                          | Material                       | Condition | Works Completed by (Company) | Sign-Off | Date Completed |
|-----------------------------------|---------------------------------------------------|--------------------------------|-----------|------------------------------|----------|----------------|
| Repair damaged sections of panels | MW05 Cletus Smith Cottage; Exterior – Wall Panels | Flat fibre-cement sheet panels | Fair      |                              |          |                |

By 2008

The above actions must be completed by 31 December 2008.

All items completed? \_\_\_\_\_ (Sign Off)

## P2 Risk Areas – Photographs



Photo 1. MW02 Main Hospital; Exterior, Pipe Work Duct Across Road to Kitchen



Photo 2. MW02 Main Hospital; Kitchen Lobby, Ceiling Space – Asbestos containing insulation

## P3A Risk Areas – Photographs



Photo 1. MW05 Cletus Smith Cottage; Exterior – Wall Panels

Low  
Priority  
Risks

By 2008

| Action Required        | Location                                                           | Material | Condition | Works Completed by (Company) | Sign-Off | Date Completed |
|------------------------|--------------------------------------------------------------------|----------|-----------|------------------------------|----------|----------------|
| Labelling              | All Asbestos-materials on-site that have not already been labelled | Asbestos | N/A       |                              |          |                |
| Update Register        | Entire site                                                        | Asbestos | N/A       |                              |          |                |
| Update Management Plan | Entire Site                                                        | Asbestos | N/A       |                              |          |                |

The above actions must be completed by 31 December 2008.

All items completed? \_\_\_\_\_ (Sign Off)



## Asbestos Management Plan Timetable North Coast Area Health Services



### Nimbin Hospital and Medical Centre



February 2007

## Nimbin Hospital and Medical Centre

## Asbestos Management – Timetable for action


  
**P3A  
Priority  
Risks**

| Action Required                                   | Location                                                                                     | Material               | Condition | Works Completed by (Company) | Sign-Off | Date Completed |
|---------------------------------------------------|----------------------------------------------------------------------------------------------|------------------------|-----------|------------------------------|----------|----------------|
| Remove asbestos cement debris from ground surface | LB40 Nimbin Private Medical Centre and Community Health; Sub-Floor, Debris on Ground Surface | Asbestos cement debris | Fair      |                              |          |                |

By 2008

The above actions must be completed by 31 December 2008.

All items completed? \_\_\_\_\_ (Sign Off)


  
**Low  
Priority  
Risks**

| Action Required        | Location                                                           | Material | Condition | Works Completed by (Company) | Sign-Off | Date Completed |
|------------------------|--------------------------------------------------------------------|----------|-----------|------------------------------|----------|----------------|
| Labelling              | All Asbestos-materials on-site that have not already been labelled | Asbestos | N/A       |                              |          |                |
| Update Register        | Entire site                                                        | Asbestos | N/A       |                              |          |                |
| Update Management Plan | Entire Site                                                        | Asbestos | N/A       |                              |          |                |

By 2008

The above actions must be completed by 31 December 2008.

All items completed? \_\_\_\_\_ (Sign Off)



## Asbestos Management Plan Timetable North Coast Area Health Services



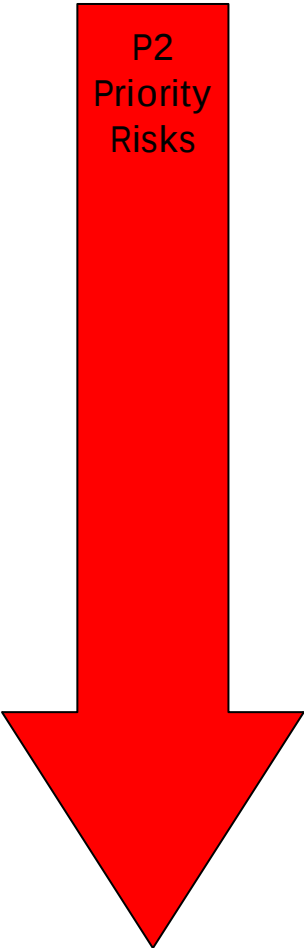
### Port Macquarie Health Campus, Base Hospital and Community Health Centres



February 2007

## Port Macquarie Health Campus, Base Hospital and Community Health Centres

## Asbestos Management – Timetable for action

| <br><b>P2<br/>Priority<br/>Risks</b> | Action Required                    | Location                                                                                     | Material            | Condition | Works Completed by (Company) | Sign-Off | Date Completed |
|------------------------------------------------------------------------------------------------------------------------|------------------------------------|----------------------------------------------------------------------------------------------|---------------------|-----------|------------------------------|----------|----------------|
|                                                                                                                        | Removal of Pipe Lagging and debris | CBH001 Port Macquarie Health Campus; Lower Ground Level, Throughout Service Tunnels          | Pipe Lagging Debris | Poor      |                              |          |                |
|                                                                                                                        | Removal of Pipe Lagging and debris | CBH001 Port Macquarie Health Campus; Ground Level, Room 41 Ceiling Space                     | Pipe Lagging Debris | Poor      |                              |          |                |
|                                                                                                                        | Removal of Pipe Lagging and debris | CBH001 Port Macquarie Health Campus; Ground Level, Room 89, Service Duct Riser               | Pipe Lagging Debris | Poor      |                              |          |                |
|                                                                                                                        | Removal of Pipe Lagging and debris | CBH001 Port Macquarie Health Campus; Ground Level, Rooms 53 and 54, Ceiling Space            | Pipe Lagging Debris | Poor      |                              |          |                |
|                                                                                                                        | Removal of Pipe Lagging and debris | CBH001 Port Macquarie Health Campus; Level 1, Unisex Toilets, Ceiling Space, North-east side | Pipe Lagging Debris | Poor      |                              |          |                |
|                                                                                                                        | Removal of Pipe Lagging and debris | CBH001 Port Macquarie Health Campus; Level 3, Roof Space, Throughout                         | Pipe Lagging Debris | Poor      |                              |          |                |
|                                                                                                                        | Removal of Pipe Lagging and debris | CBH003 McLaren Building; Roof Space, South Side                                              | Pipe Lagging Debris | Poor      |                              |          |                |

By 2008

The above actions must be completed by 30 June 2008.

All items completed? \_\_\_\_\_ (Sign Off)

**P3A  
Priority  
Risks**

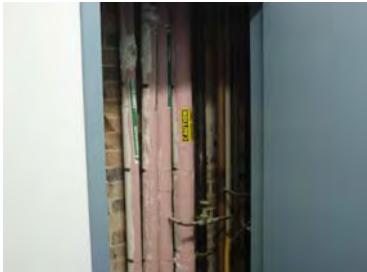
| Action Required                             | Location                                                                          | Material                                              | Condition | Works Completed by (Company) | Sign-Off | Date Completed |
|---------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------|-----------|------------------------------|----------|----------------|
| Repair damaged sections of piping           | CBH001 Port Macquarie Health Campus; Lower Ground Level, Service Tunnel East Wing | Moulded fibre cement piping                           | Fair      |                              |          |                |
| Repair damaged sections of ceiling          | CBH001 Port Macquarie Health Campus; Lower Ground Level, West End of Tunnel       | Asbestos cement sheet ceiling                         | Fair      |                              |          |                |
| Repair damaged sections of packing material | CBH001 Port Macquarie Health Campus; Lower Ground Level, Columns Throughout       | Asbestos cement sheet packing material                | Fair      |                              |          |                |
| Remove asbestos cement debris               | CBH003 McLaren Building; Roof Space, West Section                                 | Asbestos cement debris associated with hot water tank | Fair      |                              |          |                |
| Remove asbestos cement debris               | CBH019 Kawara Cottage; Rear Shed, Exterior Walls                                  | Asbestos cement debris                                | Fair      |                              |          |                |

By 2008

The above actions must be completed by 31 December 2008.

All items completed? \_\_\_\_\_ (Sign Off)

## P2 Risk Areas – Photographs

|                                                                                              |                                                                                            |                                                                                                       |                                                                                     |
|----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|             |           |                     |  |
| Photo 1. CBH001 Port Macquarie Health Campus; Lower Ground Level, Throughout Service Tunnels | Photo 2. CBH001 Port Macquarie Health Campus; Ground Level, Rooms 53 and 54, Ceiling Space | Photo 3. CBH001 Port Macquarie Health Campus; Level 1, Unisex Toilets, Ceiling Space, North-east side | Photo 4. CBH001 Port Macquarie Health Campus; Level 3, Roof Space, Throughout       |

## P3A Risk Areas – Photographs

|                                                                                    |                                                                                    |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|  |  |
| Photo 1. CBH003 McLaren Building; Roof Space, West Section                         | Photo 2. CBH019 Kawara Cottage; Rear Shed, Exterior Walls                          |

Low  
Priority  
Risks

By 2008

| Action Required        | Location                                                           | Material | Condition | Works Completed by (Company) | Sign-Off | Date Completed |
|------------------------|--------------------------------------------------------------------|----------|-----------|------------------------------|----------|----------------|
| Labelling              | All Asbestos-materials on-site that have not already been labelled | Asbestos | N/A       |                              |          |                |
| Update Register        | Entire site                                                        | Asbestos | N/A       |                              |          |                |
| Update Management Plan | Entire Site                                                        | Asbestos | N/A       |                              |          |                |

The above actions must be completed by 31 December 2008.

All items completed? \_\_\_\_\_ (Sign Off)



## Asbestos Management Plan Timetable North Coast Area Health Services



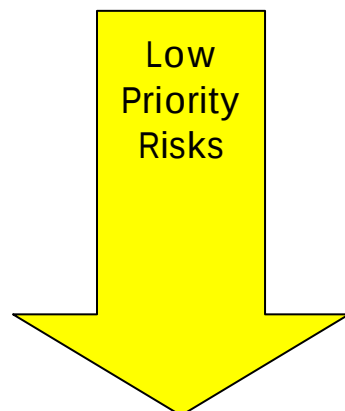
### Sawtell Community Health Centre



February 2007

## Sawtell Community Health Centre

## Asbestos Management – Timetable for action



By 2008

| Action Required        | Location                                                           | Material | Condition | Works Completed by (Company) | Sign-Off | Date Completed |
|------------------------|--------------------------------------------------------------------|----------|-----------|------------------------------|----------|----------------|
| Labelling              | All Asbestos-materials on-site that have not already been labelled | Asbestos | N/A       |                              |          |                |
| Update Register        | Entire site                                                        | Asbestos | N/A       |                              |          |                |
| Update Management Plan | Entire Site                                                        | Asbestos | N/A       |                              |          |                |

The above actions must be completed by 31 December 2008.

All items completed? \_\_\_\_\_ (Sign Off)



## Asbestos Management Plan Timetable North Coast Area Health Services



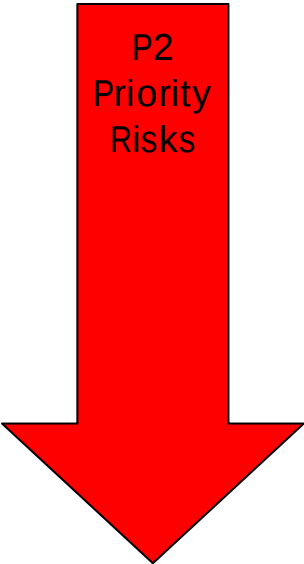
## Tweed Heads Hospital and Community Health Centres



February 2007

## Tweed Heads Hospital and Community Health Centres

## Asbestos Management – Timetable for action

| <br><b>P2<br/>Priority<br/>Risks</b> | Action Required                     | Location                                                                           | Material                                            | Condition | Works Completed by (Company) | Sign-Off | Date Completed |
|-----------------------------------------------------------------------------------------------------------------------|-------------------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------|-----------|------------------------------|----------|----------------|
|                                                                                                                       | Repair or remove soft board ceiling | TH02 Main Block; Level 4, Electrical Riser Cupboard, Ceiling Panels                | Asbestos soft board ceilings                        | Poor      |                              |          |                |
|                                                                                                                       | Repair damaged panels to doors      | TH02 Main Block; Level 1, Mental Health, Infill panels above electrical riser door | Panels to electrical doors                          | Poor      |                              |          |                |
|                                                                                                                       | Remove damaged sheets and debris    | TH23 Mental Health NGO; Exterior, Right Side of Building – Eaves                   | Flat fibre cement sheet eaves and associated debris | Poor      |                              |          |                |

By 2008

The above actions must be completed by 30 June 2008.

All items completed? \_\_\_\_\_ (Sign Off)

**P3A  
Priority  
Risks**

| Action Required                                  | Location                                                               | Material                                        | Condition | Works Completed by (Company) | Sign-Off | Date Completed |
|--------------------------------------------------|------------------------------------------------------------------------|-------------------------------------------------|-----------|------------------------------|----------|----------------|
| Remove asbestos debris/residue from timber frame | TH02 Main Block; Level 3, Electrical Riser Cupboard (Physiotherapy)    | Fibre cement debris and residue on timber frame | Fair      |                              |          |                |
| Remove asbestos debris/residue from timber frame | TH02 Main Block; Level 2, Electrical Riser Cupboard (Community Health) | Fibre cement debris and residue on timber frame | Fair      |                              |          |                |

By 2008

The above actions must be completed by 31 December 2008.

All items completed? \_\_\_\_\_ (Sign Off)

### P3A Risk Areas – Photographs

|                                                                                    |                                                                                    |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|  |  |
| Photo 1. TH02 Main Block; Level 3, Electrical Riser Cupboard (Physiotherapy)       | Photo 2. TH02 Main Block; Level 2, Electrical Riser Cupboard (Community Health)    |

Low  
Priority  
Risks

By 2008

| Action Required        | Location                                                           | Material | Condition | Works Completed by (Company) | Sign-Off | Date Completed |
|------------------------|--------------------------------------------------------------------|----------|-----------|------------------------------|----------|----------------|
| Labelling              | All Asbestos-materials on-site that have not already been labelled | Asbestos | N/A       |                              |          |                |
| Update Register        | Entire site                                                        | Asbestos | N/A       |                              |          |                |
| Update Management Plan | Entire Site                                                        | Asbestos | N/A       |                              |          |                |

The above actions must be completed by 31 December 2008.

All items completed? \_\_\_\_\_ (Sign Off)



## Asbestos Management Plan Timetable North Coast Area Health Services



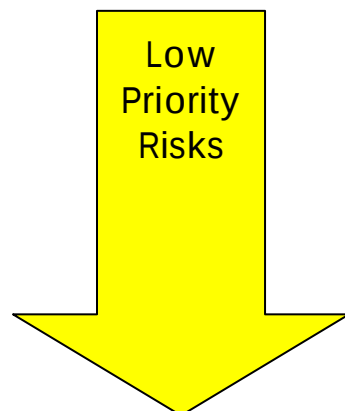
### Urbenville Hospital



February 2007

## Urbenville Hospital

## Asbestos Management – Timetable for action



By 2008

| Action Required        | Location                                                           | Material | Condition | Works Completed by (Company) | Sign-Off | Date Completed |
|------------------------|--------------------------------------------------------------------|----------|-----------|------------------------------|----------|----------------|
| Labelling              | All Asbestos-materials on-site that have not already been labelled | Asbestos | N/A       |                              |          |                |
| Update Register        | Entire site                                                        | Asbestos | N/A       |                              |          |                |
| Update Management Plan | Entire Site                                                        | Asbestos | N/A       |                              |          |                |

The above actions must be completed by 31 December 2008.

All items completed? \_\_\_\_\_ (Sign Off)



## Asbestos Management Plan Timetable North Coast Area Health Services



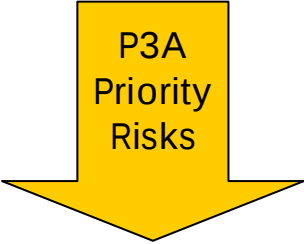
### Urunga Community Health Centre



February 2007

## Urunga Community Health Centre

## Asbestos Management – Timetable for action

|  | Action Required                 | Location                                          | Material                                      | Condition | Works Completed by (Company) | Sign-Off | Date Completed |
|-----------------------------------------------------------------------------------|---------------------------------|---------------------------------------------------|-----------------------------------------------|-----------|------------------------------|----------|----------------|
|                                                                                   | Remove debris on ground surface | Urunga Community Seaboard Centre – Sub Floor Area | Asbestos cement (AC) debris on ground surface | Fair      |                              |          |                |

By 2008

The above actions must be completed by 31 December 2008.

All items completed? \_\_\_\_\_ (Sign Off)

## P3A Risk Areas – Photographs



Photo 1. Urunga Community Seaboard Centre – Sub Floor Area

Low  
Priority  
Risks

By 2008

| Action Required        | Location                                                           | Material | Condition | Works Completed by (Company) | Sign-Off | Date Completed |
|------------------------|--------------------------------------------------------------------|----------|-----------|------------------------------|----------|----------------|
| Labelling              | All Asbestos-materials on-site that have not already been labelled | Asbestos | N/A       |                              |          |                |
| Update Register        | Entire site                                                        | Asbestos | N/A       |                              |          |                |
| Update Management Plan | Entire Site                                                        | Asbestos | N/A       |                              |          |                |

The above actions must be completed by 31 December 2008.

All items completed? \_\_\_\_\_ (Sign Off)



## Asbestos Management Plan Timetable North Coast Area Health Services



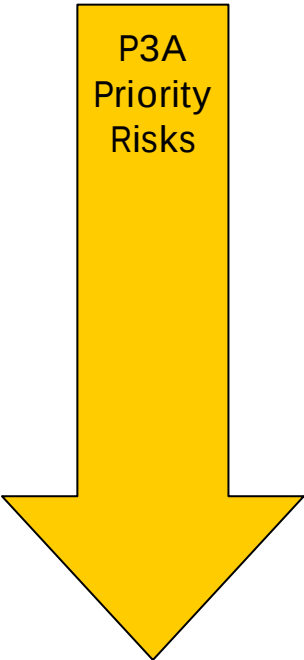
### Wauchope Hospital and Community Health Centre



February 2007

# Wauchope Hospital and Community Health Centre

## Asbestos Management – Timetable for action

|  | Action Required                             | Location                                                                             | Material                     | Condition | Works Completed by (Company) | Sign-Off | Date Completed |
|------------------------------------------------------------------------------------|---------------------------------------------|--------------------------------------------------------------------------------------|------------------------------|-----------|------------------------------|----------|----------------|
|                                                                                    | Repair exposed areas of sheeting            | CBW001 Main Building; Exterior, West wall cladding                                   | Flat fibre-cement sheeting   | Fair      |                              |          |                |
|                                                                                    | Remove fragments from beneath Re-heat Unit  | CBW001 Main Building; Ceiling Space, South-east, Packing Material under Re-heat Unit | Fibre-cement sheet fragments | Fair      |                              |          |                |
|                                                                                    | Remove fragments from within ceiling space  | CBW001 Main Building; Ceiling Space, South-east area                                 | Fibre-cement sheet fragments | Fair      |                              |          |                |
|                                                                                    | Remove fragments from within sub floor area | CBW001 Main Building; Sub floor area, Throughout                                     | Fibre-cement sheet fragments | Fair      |                              |          |                |

By 2008

The above actions must be completed by 31 December 2008.

All items completed? \_\_\_\_\_ (Sign Off)

## P3A Risk Areas – Photographs

|                                                                                   |                                                                                                      |                                                                                     |                                                                                     |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |                     |  |  |
| <p>Photo 1. CBW001 Main Building; Ceiling Space, South-east area</p>              | <p>Photo 2. CBW001 Main Building; Ceiling Space, South-east, Packing Material under Re-heat Unit</p> | <p>Photo 3. CBW001 Main Building; Sub floor area, Throughout</p>                    | <p>Photo 4. CBW001 Main Building; Exterior, West wall cladding</p>                  |

Low  
Priority  
Risks

By 2008

| Action Required        | Location                                                           | Material | Condition | Works Completed by (Company) | Sign-Off | Date Completed |
|------------------------|--------------------------------------------------------------------|----------|-----------|------------------------------|----------|----------------|
| Labelling              | All Asbestos-materials on-site that have not already been labelled | Asbestos | N/A       |                              |          |                |
| Update Register        | Entire site                                                        | Asbestos | N/A       |                              |          |                |
| Update Management Plan | Entire Site                                                        | Asbestos | N/A       |                              |          |                |

The above actions must be completed by 31 December 2008.

All items completed? \_\_\_\_\_ (Sign Off)



## Asbestos Management Plan Timetable North Coast Area Health Services



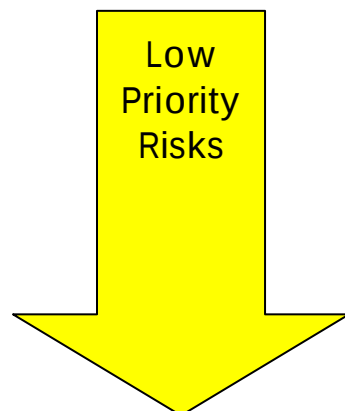
### Woolgoolga Community Health Centre



February 2007

## Woolgoolga Community Health Centre

## Asbestos Management – Timetable for action



By 2008

| Action Required        | Location                                                           | Material | Condition | Works Completed by (Company) | Sign-Off | Date Completed |
|------------------------|--------------------------------------------------------------------|----------|-----------|------------------------------|----------|----------------|
| Labelling              | All Asbestos-materials on-site that have not already been labelled | Asbestos | N/A       |                              |          |                |
| Update Register        | Entire site                                                        | Asbestos | N/A       |                              |          |                |
| Update Management Plan | Entire Site                                                        | Asbestos | N/A       |                              |          |                |

The above actions must be completed by 31 December 2008.

All items completed? \_\_\_\_\_ (Sign Off)

Hospitals and Community Health Centres

## SECTION 4 - RECORDS

It is recommended that the following information be filed in this Section

- Records of re-inspections and review of the AMP;
- Reports of asbestos removal and clean-up works;
- Asbestos clearance certification and air monitoring reports;
- Reports of inspections by an Asbestos Consultant;
- Expired Work Permits;
- Reports of accidental damage and clean-up procedures;
- Details of licensed asbestos removal contractors;
- Details of staff & tenant briefings / training;
- Details of contractor inductions; &
- Asbestos scope of works, work outlines, procedures and specifications.

## Report Details

Report title: Lismore Base Hospital, Ward A8 – Heater unit sampling

Job reference number: SN0042:75471

Date: July 2009

Friday 31/07/2009

Our ref: SN0042:75471

John Coombes  
North Coast Area Health Service  
Lismore Base Hospital - Loading Dock, Hunter Street  
LISMORE NSW 2480

Dear John,

Re: Asbestos Identification Analysis - Ward A8, Lismore Base Hospital

This letter presents the results of asbestos fibre identification analysis performed on 3 samples collected by Scott Bamford of Noel Arnold & Associates Pty Ltd on Thursday 30th July 2009. The samples were collected from Ward A8, Lismore Base Hospital.

All sample analysis was performed using polarised light microscopy, including dispersion staining in our Sydney Laboratory in accordance with Noel Arnold and Associates Pty Ltd Test Method NALAB 302 "Asbestos Identification Analysis" and following the guidelines of Australian Standard AS4964-2004.

The samples will be kept for six months and then disposed of, unless otherwise directed.

The results of the asbestos identification analysis are presented in the appended table.

Should you require further information please contact Scott Bamford.

Yours sincerely  
NOEL ARNOLD & ASSOCIATES PTY LTD



Simon Day: Approved Identifier



Simon Day: Approved Signatory



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| Site Location: |             | Ward A8, Lismore Base Hospital                                                                                                                                         |                      |
|----------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
|                | Sample ID   | Sample Location/Description/Weight or Size                                                                                                                             | Analysis Result      |
| 1              | 75471<br>01 | FC7, Heater Bank, Duct Lining - Fibre cement sheeting<br>Speckled brown resin-coated gold-grey compressed/formed powder,<br>mica, fibre sheet material<br>5 x 4 x 1 mm | No Asbestos Detected |
| 2              | 75471<br>02 | FC6, Heater Bank, Debris below element - Millboard Debris<br>Black-coated beige loosely-formed powder, fibre material<br>5 x 3 x 1 mm                                  | No Asbestos Detected |
| 3              | 75471<br>03 | FC6, Outlet Grill, Debris - Millboard Debris<br>White crystalline, fibre material fragments<br>2 x 1 x <1 mm                                                           | No Asbestos Detected |

## Report Details

Report title: Lismore Base Hospital sampling – 51 Uralba Street,  
South east corner – Air condition unit sampling

Job reference number: SN0042:82630

Date: June 2010

Thursday 03/06/2010

Our ref: SN0042:82630

John Coombes  
North Coast Area Health Service  
60 Uralba Street  
LISMORE NSW 2480

Dear John,

Re: Asbestos Identification Analysis - 51 Uralba Street, Lismore NSW 2480

This letter presents the results of asbestos fibre identification analysis performed on 3 samples as received by Noel Arnold & Associates Pty Ltd on Monday 31st May 2010. The samples were stated to be from 51 Uralba Street, Lismore NSW 2480 .

All sample analysis was performed using polarised light microscopy, including dispersion staining in our Sydney Laboratory in accordance with Noel Arnold and Associates Pty Ltd Test Method NALAB 302 "Asbestos Identification Analysis" and following the guidelines of Australian Standard AS4964-2004.

The samples will be kept for six months and then disposed of, unless otherwise directed.

The results of the asbestos identification analysis are presented in the appended table.

Should you require further information please contact Stuart Carroll.

Yours sincerely  
NOEL ARNOLD & ASSOCIATES PTY LTD



Simon Day: Approved Identifier



Simon Day: Approved Signatory



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|                |             |                                                                                                                                                                                          |                                                         |
|----------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| Site Location: |             | 51 Uralba Street, Lismore NSW 2480                                                                                                                                                       |                                                         |
|                | Sample ID   | Sample Location/Description/Weight or Size                                                                                                                                               | Analysis Result                                         |
| 1              | 82630<br>01 | South-east corner, Near Air-conditioning unit, Painted Sample - Fibre Cement Sheet<br>Green lichen-coated grey fibre-cement sheet material<br>33 x 25 x 5 mm                             | Chrysotile (white asbestos)<br>Amosite (brown asbestos) |
| 2              | 82630<br>02 | South-east corner, Near Air-conditioning unit, Non-painted Sample - Fibre Cement Sheet<br>Unpainted gold-grey layered flat ribbed fibre-cement sheet material<br>150 x 70 x 5 mm         | No Asbestos Detected                                    |
| 3              | 82630<br>03 | South-east corner, Near Air-conditioning unit, Repaired area at base of wall - Fibre Cement Sheet<br>Beige-painted white-grey flat ribbed fibre-cement sheet material<br>150 x 80 x 6 mm | Chrysotile (white asbestos)<br>Amosite (brown asbestos) |

\* Shaded row with bolded text indicates a positive result for asbestos.