JBS&G 63888 | 159,727

L070 Hazardous Materials Advice, REF6, RPA Hospital Rev A

11 June 2024

Zach Foster
CPB Contractors
Via email: Zach.Foster@cpbcon.com.au

Hazardous Materials Summary and Advice – REF6, Royal Prince Alfred Hospital Redevelopment, Camperdown, NSW

Dear Zach,

1. Introduction

JBS&G Australia Pty Ltd (JBS&G) was engaged by CPB Contractors (CPB, the client) to provide hazardous materials advice in relation to the proposed construction works to Level 6 of Building 89, identified as 'REF6', as part of the broader Royal Prince Alfred (RPA) Hospital Redevelopment, Camperdown, NSW (the site).

JBS&G completed a hazardous building materials survey (HBMS) of the broader RPA Hospital redevelopment site in August 2023 (JBS&G 2023[1]) which is included as **Attachment C**. The client has requested this hazardous materials advice specific to the proposed REF6 redevelopment area, based on the findings in JBS&G 2023. It is noted that since the production of JBS&G 2023, there have been no changes to legislation, codes of practice and other guidance documents in relation to the identification, management and removal of hazardous building materials.

The proposed REF6 redevelopment works will comprise the following:

- Removal of the existing Level 6 Mechanical Plant with make good works;
- Penetration for new services within the plant room;
- Building interface works to the existing adjacent campus buildings where impacted;
- Construction of new structure for lightweight steel roof, gutter, fascia works and associated aluminium walkway systems;
- Construction of new façade enclosure to plant room with a steel frame and metal stud framing;
- New façade system with the inclusion of a Solid Aluminium Cassette Cladding and Acoustic louvres; and
- New construction of fire rated walls.

Plans of the proposed REF6 redevelopment works, specific to this hazardous materials advice, are included as **Attachment B**.

[1] *Hazardous Building Materials Survey, Main Works Package, Royal Prince Alfred Hospital Redevelopment, Missenden Road, Camperdown, NSW*. JBS&G Australia Pty Ltd, Ref: 63888/153,198 Rev A, 16 August 2023 (JBS&G 2023)

2. Hazardous Materials Status

With reference to JBS&G 2023, a summary of the hazardous materials identified within the Level 6 redevelopment area is as follows:

- Non-asbestos containing fibre cement sheeting (L6-A07) was identified to the external wall cladding to the B63 plant room.
- Non-asbestos containing fibre cement sheet debris (L6-A08) was identified within the gutters to the roof.
- Non-asbestos containing felt membrane (L6-A09) was identified to the flat roof sections underlying the surface pebble layer.
- Non-asbestos containing putty sealant (L6-A10) was identified to the external timber windows to Building 63, accessed from the flat roof area.
- Lead based orange paint (L6-L02, 3.3% w/w) was identified to the vent pipes to the external aspect of Building 63, accessed from the flat roof area.
- Non-lead based brown paint (L6-L03, <0.01% w/w) was identified to the external vent grill to the Building 63 plant room.
- A number of hot water systems were located on the roof and are assumed to contain internal synthetic mineral fibre (SMF) insulation.
- Metal cased pipework associated with the air conditioning units was located on the roof and is assumed to contain internal SMF insulation lagging.
- Fluorescent light fittings were identified to the external roof area and are suspected to contain PCB capacitors.

3. Conclusions

Based on the findings of JBS&G 2023, specific to the proposed REF6 development area, and with reference to the **Limitations** included as **Attachment A**, JBS&G conclude the following:

- No asbestos containing materials were identified at the time of JBS&G 2023;
- Lead based paints and assumed SMF insulation materials were identified at the time of JBS&G 2023 and must be appropriately managed and/or removed in accordance with AS4361.2-2017[2] and NOHSC:2006(1990)[3]; and
- Assumed PCB containing capacitors were identified within fluorescent light fittings at the time of JBS&G 2023 and must be appropriately handled and removed in accordance with ANZECC 1997[4].

Should any additional suspected hazardous materials be observed during or prior to demolition works, works should cease until a suitably qualified occupational hygienist can assess the suspected hazardous material and provide appropriate recommendations for management and/or removal.

[2] *Australian Standard 4361.2 (2017) Guide to Hazardous Paint Management - Part 2: Lead Paint in Residential, Public and Commercial Buildings* (AS4361.2-2017)

[3] *National Occupational Health and Safety Commission's National Code of Practice for the Safe Use of Synthetic Mineral Fibres*, [NOHSC:2006(1990)]

[4] *Australian and New Zealand Environment Conservation Council's Identification of PCB containing Capacitors: An information booklet for Electricians and Electrical Contractors*, (ANZECC 1997)

Should you require clarification, please contact the undersigned on 02 8245 0300 or by email slumsden@jbsg.com.au.

Yours sincerely:

Stuart Lumsden
Senior OHM Consultant
JBS&G Australia Pty Ltd

Reviewed/Approved by:

Michael Samuel
Principal
JBS&G Australia Pty Ltd

Attachments:

A) Limitations
B) Client Provided Plans
C) Hazardous Building Materials Survey – JBS&G 2023

Attachment A Limitations

This report has been prepared for use by the client who has commissioned the works in accordance with the project brief only, and has been based in part on information obtained from the client and other parties. The report has been prepared specifically for the client for the purposes of the commission, and no warranties, express or implied, are offered to any third parties and no liability will be accepted for use or interpretation of this report by any third party.

The advice herein relates only to this project and all results conclusions and recommendations made should be reviewed by a competent person with experience in environmental investigations, before being used for any other purpose. This report should not be amended in any way without prior approval by JBS&G, or reproduced other than in full including all attachments as originally provided to the client by JBS&G.

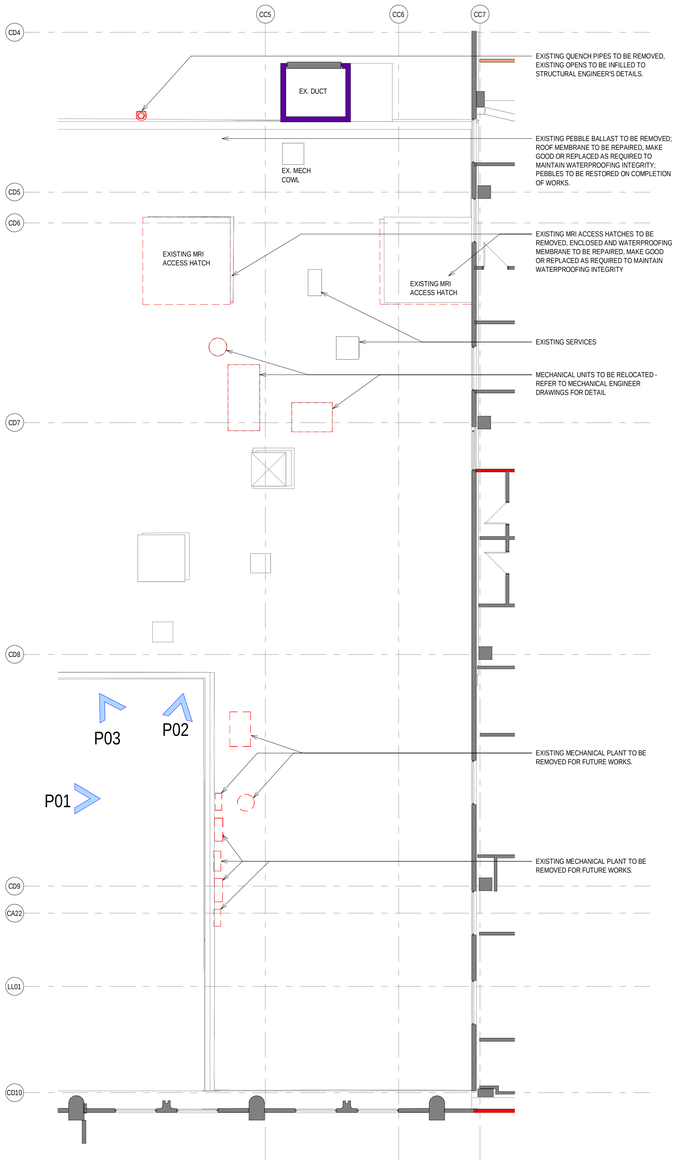
Sampling and chemical analysis of environmental media is based on appropriate guidance documents made and approved by the relevant regulatory authorities. Conclusions arising from the review and assessment of environmental data are based on the sampling and analysis considered appropriate based on the regulatory requirements or agreed scope of work.

Limited sampling and laboratory analyses were undertaken as part of the investigations undertaken, as described herein. Conditions between sampling locations and media may vary, and this should be considered when extrapolating between sampling points. Chemical analytes are based on the information detailed in the site history. Further chemicals or categories of chemicals may exist at the site, which were not identified in the site history and which may not be expected at the site.

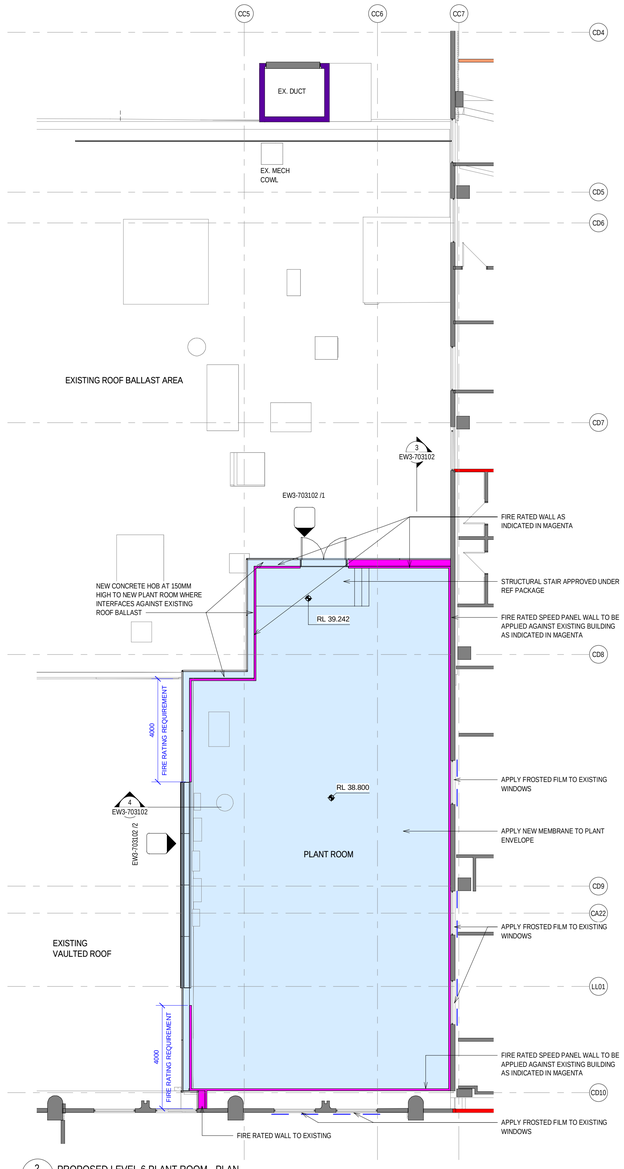
Changes to the conditions may occur subsequent to the investigations described herein, through natural processes or through the intentional or accidental addition of contaminants. The conclusions and recommendations reached in this report are based on the information obtained at the time of the investigations.

This report does not provide a complete assessment of the environmental status of the site, and it is limited to the scope defined herein. Should information become available regarding conditions at the site including previously unknown sources of contamination, JBS&G reserves the right to review the report in the context of the additional information.

Attachment B Client Provided Plans



1 LEVEL 6 - DEMOLITION PLAN
1 : 100



2 PROPOSED LEVEL 6 PLANT ROOM - PLAN
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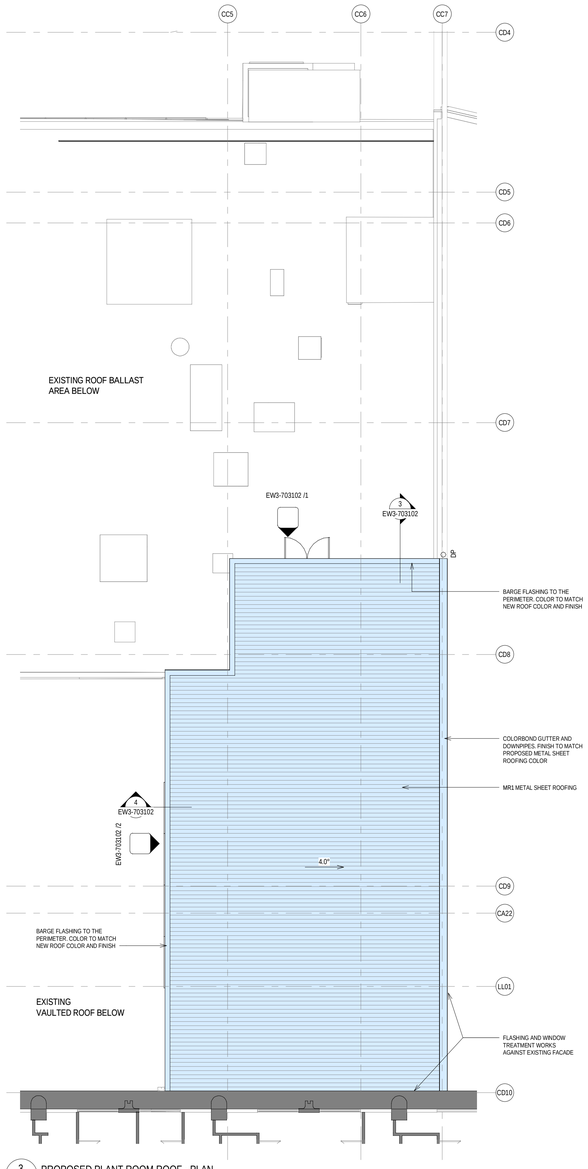
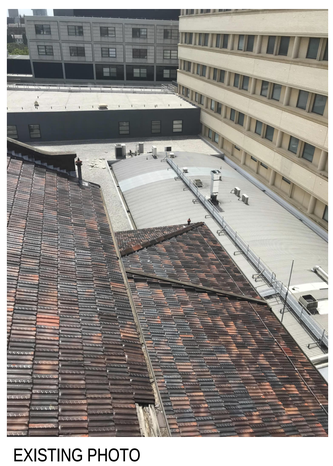


3 PROPOSED PLANT ROOM ROOF - PLAN
1 : 100

P01 - EXISTING PHOTO 1

P02 - EXISTING PHOTO 2



EXISTING PHOTO

P03 - EXISTING PHOTO 3

NOTES

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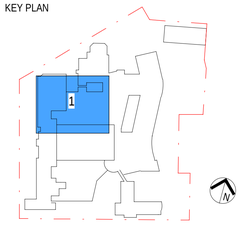
LEGEND

- BUILDING ELEMENTS/ENVELOPE IN SCOPE
- EXISTING BUILDING ELEMENTS
- FAC1 = SOLID ALUMINIUM CASSETTE CLADDING (VITRADUAL) COLOUR TO MATCH BUILDING 63
- FAC10 = ACOUSTIC LOUVRES SYSTEM (DULUX MONUMENT)
- RWW1 = ALUMINIUM ROOF WALKWAY SYSTEM
- MR1 = METAL SHEET ROOFING
- P0X EXISTING PHOTO X

MW - REFER TO DRAWING RPA-ARC-JAC-DRG-MW-000005 FOR GENERAL LEGEND

REV	DATE	AMENDMENT
F	06/06/24	ISSUED FOR REF#6
E	15/05/24	ISSUED FOR REF#6
D	15/12/23	ISSUED FOR 100% DD
C	30/11/23	ISSUED FOR 75% DD
B	27/10/23	ISSUED FOR 75% DD
A	16/10/23	ISSUED FOR 75% DD

KEY PLAN



PROJECT MANAGER

TSA

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PROJECT
ROYAL PRINCE ALFRED HOSPITAL REDEVELOPMENT

PROJECT NO.
IA0251300

DRAWING TITLE
LEVEL 6 ED PLANT STRATEGY PLANS & ROOF LAYOUT

STATUS
ISSUED FOR REF6

DRAWN	DESIGNED
CC	CC
CHECKED	APPROVED
RG/CY	CY

SCALE @ B1
As indicated

DRAWING NO.
RPA-ARC-JAC-DRG-EW3-703101

REVISION
F

Attachment C Hazardous Building Materials Survey – JBS&G 2023

CPB Contractors Pty Ltd

Hazardous Building Materials Survey

Main Works Package,
Royal Prince Alfred Hospital Redevelopment
Missenden Road,
Camperdown, NSW

16 August 2023

63888/153,198 (Rev A)

JBS&G Australia Pty Ltd

www.jbsg.com.au

CPB Contractors Pty Ltd

Hazardous Building Materials Survey

Main Works Package,
Royal Prince Alfred Hospital Redevelopment
Missenden Road,
Camperdown, NSW

16 August 2023

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JBS&G Australia Pty Ltd

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Abbreviations

Term	Definition
AC	Asbestos Cement
ACM	Asbestos Containing Material
ACD	Asbestos Containing Dust
ANZECC	Australian and New Zealand Environment Conservation Council
AMP	Asbestos Management Plan
COC	Chain of Custody
NSW EPA	New South Wales Environmental Protection Authority
FA	Friable Asbestos
HIL	Health Investigation Levels
HSL	Health Screening Levels
JBS&G	JBS&G Australia Pty Ltd
LAA	Licenced Asbestos Assessor
LCD	Lead Containing Dust
LOR	Limit of Reporting
LP	Lead Paint
NATA	National Association of Testing Authorities, Australia
NEPC	National Environmental Protection Council
NEPM	National Environmental Protection Measure
PCB	Polychlorinated Biphenyls
PPE	Personal Protective Equipment
SMF	Synthetic Mineral Fibre
SWNSW	SafeWork New South Wales
WHS (WH&S)	Workplace Health and Safety

1. Introduction

1.1 Background

JBS&G Australia Pty Ltd (JBS&G) was engaged by CPB Contractors Pty Ltd (CPB, the client) to undertake a hazardous building materials survey (HBMS) of the structures associated with the Main Works Package of the Royal Prince Alfred (RPA) Hospital Redevelopment, located at RPA Hospital, Missenden Road, Camperdown, NSW (the site). The site location and layout are shown on **Figure 1** and **Figure 2** respectively.

It is understood that the Main Works Package comprises predominantly internal refurbishments to the internal areas of the Main Hospital Building and demolition of selected areas. These areas are shown on client provided figures included as **Appendix D**.

At the request of the client, the HBMS was restricted to the highlighted areas only (**Appendix D**) and are identified as follows:

- Main Hospital Building comprising Building 63 (B63), Building 64 (B64), Building 75 (B75), Building 77 (B77) and Building 89 (B89) across the following areas:
    - Level 1 – undercroft areas and fire pump room;
    - Level 2 – north lift foyer, toilets, offices, car park storerooms, fire control room, northern portion of Medical Training and Administration Unit (MTAU), and external façade;
    - Level 3 – Birthing Centre, north lift and entry foyer, Delivery Unit, Neonatal Intensive Care Unit (NICU), Intensive Care Unit (ICU), ICU offices/administration, atrium and external façade;
    - Level 4 – Staff Gymnasium, storerooms, Clinical Education Centre, various plant rooms, north lift foyer and stairs, Medical Records, Digital Health and Innovation, Radiology offices, Department of Anaesthetics, Café balcony and façade;
    - Level 5 – Emergency Department, Radiology, main corridors and lift foyers, Women's and Children's Ambulatory Care, Women's and Children's Health Administration, Anti and Post Natal Wards, and Laboratory;
    - Level 6 – Nuclear Medicine, plant rooms, external roof, Cardiac Catheter Laboratory, Coronary Care Unit (CCU), north lift foyer and corridors, Cardiology Ward, Cardiothoracic/Vascular Ward, Renal Ward;
    - Level 7 – Nuclear Medicine, external roof, and plant rooms.
- Gate House Building – located adjacent the Main Hospital Building on the corner of Missenden Road and Lambie Dew Drive.

A number of previous asbestos and hazardous materials assessments have been undertaken at the site. The most recent investigation reports were completed by Environmental Monitoring Services Pty Ltd (EMS) in September 2020 and Sydney Environmental Group Pty Ltd (SEG) in August 2022. The EMS and SEG reports were provided to JBS&G prior to undertaking this HBMS (refer **Section 1.4**)

Based on the review of the EMS and SEG reports, a number of data gaps were identified including the assessment of asbestos only in the EMS reports, in addition to inaccessible areas, height access restrictions and assumptions made about the composition of materials in all previous EMS and SEG reports. Additionally, it is noted that the previous assessments were non-destructive inspections while the site was still operational and did not include any destructive sampling methods.

This HBMS was requested to re-assess the data gaps identified in the previous hazardous materials assessments and undertake a destructive HBMS (where possible) of the buildings to assist with the refurbishment phase of the proposed site redevelopment works.

The structures were inspected for the following hazardous materials during the HBMS:

- Asbestos containing materials (ACMs);
- Asbestos containing dust (ACD);
- Lead based paints (LP);
- Lead containing dust (LCD);
- Synthetic mineral fibres (SMF); and
- Polychlorinated biphenyls (PCB).

Due to the occupied/operational nature of the buildings, a fully destructive HBMS could not be completed. A range of sampling and investigation techniques were implemented to gain as much information as possible, whilst not creating or posing a potential risk to site staff and future occupants as a result of the intrusive sampling during the HBMS works.

This advice presents the outcomes of the inspection of the proposed demolition and redevelopment areas undertaken by JBS&G personnel and provides recommendations on requirements for the management and/or removal of identified hazardous materials in accordance with regulations and guidance in force at the time of the inspection.

This report should be read in its entirety including all associated attachments, including the Limitations provided in **Section 1.3** and **Section 6**.

1.2 Objectives

The objective of the HBMS was to determine the presence, quantity and condition of any hazardous materials within the buildings prior to proposed demolition and/or refurbishment works.

The HBMS and production of this report have been undertaken in accordance with the requirements of:

- *Work Health and Safety Act* (2011);
- *Work Health and Safety Regulation* (2017);
- *How to Safely Remove Asbestos Code of Practice*, SafeWork NSW, (2022) (SWNSW 2022a);
- *How to Manage and Control Asbestos in the Workplace Code of Practice*, SafeWork NSW (2022) (SWNSW 2022b);
- Australian Standard 4361.2 (1998) *Guide to Lead Paint Management - Part 2: Residential and Commercial Buildings* (AS4361.2-1998);
- Australian Standard 4361.2 (2017) *Guide to Hazardous Paint Management - Part 2: Lead Paint in Residential, Public and Commercial Buildings* (AS4361.2-2017);
- National Occupational Health and Safety Commission's *National Standard for Synthetic Mineral Fibres* [NOHSC:1004(1990)];
- National Occupational Health and Safety Commission's *National Code of Practice for the Safe Use of Synthetic Mineral Fibres*, [NOHSC:2006(1990)];
- Australian and New Zealand Environment Conservation Council's *Identification of PCB-containing Capacitors: An information booklet for Electricians and Electrical Contractors*, (ANZECC 1997); and

- NSW EPA *Waste Classification Guidelines Part 1: Classifying Waste* (NSW EPA 2014).

1.3 Hazardous Materials Survey Limitations

Whilst all reasonable care has been taken by JBS&G during the completed HBMS, this report is limited due to:

- Only safely accessible areas of the site were surveyed.
- Access restrictions to operational areas such as energised services, gas, air conditioning/heating, pressurised vessels, chemical lines etc.
- Potential materials located in areas in which they could not reasonably be envisaged or anticipated.
- Limited access to internal building components e.g., set floor, walls, ceiling cavities etc., in which case only representative areas were inspected with the hand tools available to the JBS&G consultants for destructive investigation.
- Access restrictions to areas above 3 metres or any area deemed inaccessible without the use of specialised equipment.
- Access to restrictions to areas of structures where the structural integrity for the floor and/or ceiling has been compromised.
- Service pits, confined spaces, voids, cavities within the building structure and internal areas of plant and equipment that could not be safely accessed.

It should be noted that buildings built between the 1930s - 1980s may have general occurrences of ACMs in areas which are not readily accessible with the hand tools available for the survey. These areas and materials include, inter alia:

- Fibre Cement Sheeting (FCS) used as packing to bearers and joists in the underfloor void or as boxing/shuttering to concrete formwork;
- FCS packing between window/door frames and timber studs; and
- Compressed FCS underneath tiled floor areas.

Whilst all care is taken by the consultants to uncover hidden materials, not all areas can be accessed within the allowable timeframe without more industrial (power) tools. As such, only minor destructive sampling techniques were employed to gain access. Consequently, without substantial demolition of the building, it is not possible to guarantee that every source of hazardous material has been detected. JBS&G recommends that areas inaccessible during the survey be inspected as the demolition progresses. If suspected hazardous materials are observed, confirm the presence or absence of hazardous materials through laboratory testing.

In the event suspected hazardous materials are identified during strip out or demolition which are not included in this report, JBS&G recommends that works should cease and an assessment of the materials undertaken by a competent person for further appropriate recommendations.

No one section or part of a section of this report is to be taken as giving an overall idea of this report. Each section is to be read in conjunction with the whole of this report, including the appendices and attachments.

1.4 Previous Hazardous Material Assessments

A number of previous hazardous materials assessments have been completed at the site, however, full access was not available to all structures during these previous investigations. The findings of the previously completed investigations at the site are detailed in the following documents:

- Hazardous Building Materials Survey – Building 63, Albert Pavilion (A Block), RPA Hospital, Camperdown NSW (SEG 2022a) Reference Number: 1284-HBMS-08-100822.v1f;
- Hazardous Building Materials Survey – Building 64, Administration Building, RPA Hospital, Camperdown NSW (SEG 2022b) Reference Number: 1284-HBMS-07-260722.v1f;
- Hazardous Building Materials Survey – Portion Building 75 and 89 Main Hospital and Clinical Services, RPA Hospital, Camperdown NSW (SEG 2022c) Reference Number: 1284-HBMS-11-130922.v1f; and
- Asbestos Register Building 63 – Albert Pavilion, RPA Hospital, Camperdown NSW (EMS 2020) Report Number EMS20 8044.

The findings of the reports listed above have been incorporated into this report where relevant.

2. Methodology

2.1 Hazardous Materials

2.1.1 Asbestos Containing Materials and Asbestos Containing Dust

Representative samples of suspected ACMs and ACDs were collected where possible and placed into a zip-lock bags. These were subsequently delivered to a NATA accredited laboratory for analysis using polarised light microscopy in conjunction with dispersion staining techniques. Similar materials to those analysed or other materials known to contain asbestos from the consultant's experience (e.g. Electrical backing boards, corrugated asbestos cement roofs and older fibre cement sheeting) or materials not accessible may also be assumed to contain asbestos as per the relevant Code of Practice.

At the time of inspection, the following details were recorded:

- Location;
- Type of material;
- Accessibility;
- Condition;
- Friability; and
- Volume/dimensions.

2.1.2 Lead Based Paint

Australian Standard AS4361.2 (2017) *Guide to Hazardous Paint Management - Part 2: Lead Paint in Residential, Public and Commercial Buildings* defines lead paints as those in which the lead content (calculated as lead metal) is in excess of 0.1 percent by weight of the dry film. This can be determined by field spot tests, laboratory testing or the use of portable X-ray fluorescence (XRF) field tests.

JBS&G utilises XRF technology as a screening tool for the identification of lead based paints in the field. Any detection of lead (i.e. greater than 0.05 mg/cm^2) was adopted for the assessment of lead based paints for this investigation with representative samples collected where possible and delivered to a NATA accredited laboratory for analysis using inductively coupled plasma optical emission spectrometry (ICP-OES).

2.1.3 Lead Containing Dust

Representative samples of accumulated or settled dust were collected and delivered to a NATA accredited laboratory for analysis via ICP-MS. A conservative assessment criteria was adopted for this investigation given the potential for human exposure and the readily disturbed and uncontained nature of accumulated or settled dust.

Concentrations of lead within accumulated or settled dust were compared against the health investigation level (HIL) for commercial/industrial sites of 1,500 mg/kg as outlined in National Environment Protection Measure (NEPC 2013) guidelines.

2.1.4 Polychlorinated Biphenyls

Old fluorescent light fittings and other appliances which may contain capacitors containing PCB dielectric oil are identified by inspection and evaluation with the consultant's experience of similar light fittings and appliances. Alternatively, where possible and when it was safe to do so, a representative light fitting was opened to reveal the capacitor and the make and model recorded to be compared against the ANZECC (1997) list of PCB containing capacitors.

2.1.5 Synthetic Mineral Fibres

SMF containing materials were either sampled as per the asbestos methodology or assumed to contain SMF from the consultant's experience of similar materials.

2.2 Inaccessible Areas

As per SWNSW 2022b, any areas not accessible must be recorded as such. Where hazardous materials are suspected to be contained within inaccessible areas, these shall be documented in this report and the associated Hazardous Materials Register (**Appendix A**).

3. Site Description

The HBMS was conducted between 14 and 29 June 2023 by Stuart Lumsden, one of JBS&G's experienced hazardous materials surveyors and a SafeWork NSW Licensed Asbestos Assessor (LAA 001140). Stuart was assisted by Jordan Gomez, one of JBS&G's experienced hazardous materials surveyors.

The broader RPA hospital campus was divided into an east and west portion by Missenden Road. The west portion was bound by Dunblane Street to the north, Missenden Road to the east, and Lambie Dew Drive to the north, Carillon Avenue to the south, and Hospital Road to the west. The east portion was bound by Lambie Dew Drive to the north, Sydney University to the east, St Andrew's College to the south, and Missenden Road to the west.

The HBMS assessment areas were restricted to the proposed refurbishment and demolition areas associated with the RPA Hospital Redevelopment Main Works Package (refer **Appendix D**), specifically:

- Main Hospital Building comprising B63, B64, B75, B77 and B89 across the following areas:
  - Level 1 – undercroft areas and fire pump room;
  - Level 2 – north lift foyer, toilets, offices, car park storerooms, fire control room, northern portion of Medical Training and Administration Unit (MTAU), and external façade;
  - Level 3 – Birthing Centre, north lift and entry foyer, Delivery Unit, Neonatal Intensive Care Unit (NICU), Intensive Care Unit (ICU), ICU offices/administration, atrium and external façade;
  - Level 4 – Staff Gymnasium, storerooms, Clinical Education Centre, various plant rooms, north lift foyer and stairs, Medical Records, Digital Health and Innovation, Radiology offices, Department of Anaesthetics, Café balcony and façade;
  - Level 5 – Emergency Department, Radiology, main corridors and lift foyers, Women's and Children's Ambulatory Care, Women's and Children's Health Administration, Anti and Post Natal Wards, and Laboratory;
  - Level 6 – Nuclear Medicine, plant rooms, external roof, Cardiac Catheter Laboratory, Coronary Care Unit (CCU), north lift foyer and corridors, Cardiology Ward, Cardiothoracic/Vascular Ward, Renal Ward;
  - Level 7 – Nuclear Medicine, external roof, and plant rooms.
- Gate House Building – located adjacent the Main Hospital Building on the corner of Missenden Road and Lambie Dew Drive;

At the time of inspection, the Main Hospital Building was occupied and an operational hospital facility, with the Gate House Building vacant and unoccupied.

The type, location, friability, accessibility, and approximate quantities of identified and suspected hazardous materials are provided in the Hazardous Materials Register in **Appendix A**.

Photographs taken during the HBMS are presented in **Appendix B**.

A summary of the observations made during the HBMS is included in the following sections.

3.1 Main Hospital Building (B63, B64, B75, B77 and B89)

The proposed refurbishment and demolition areas associated with the RPA Hospital Redevelopment Main Works Package comprised selected areas of B63, B64, B75, B77 and B89.

B63 and B64 comprised multi storey heritage structures that were constructed in circa 1904 and 1882 respectively. The eastern portion of B64 was demolished to facilitate the construction of the multi storey B75 in the 1970s. B63, B64 and B75 have all undergone significant refurbishments since their construction.

B77 and B89 were more recent redevelopments at RPA Hospital and comprised the multi storey Clinical Services Building (CSB) with construction of Stage 1 (B89) completed circa 2006 and Stage 2 (B77) complete circa 2009.

3.1.1 Level 1

The Level 1 assessment area comprised three undercroft areas within B89 and the fire pump room within B75.

A summary of the significant observations made during the HBMS is as follows:

- The undercroft areas comprised concrete ceilings and exposed soil floor with mechanical plant, including pipework and ducting, running through them.
- The fire pump room comprised concrete floor and ceiling and cement block walls, with mechanical plant including the hydrant pump, pipework and ductwork.
- Non-asbestos containing cream vermiculite (L1-A01) was identified as fire proofing to the ductwork throughout the northeast undercroft area;
- Non-asbestos containing grey vermiculite (L1-A02) was identified as fire proofing to the ductwork throughout the northeast undercroft area;
- Non-asbestos containing fibre cement pipe (L1-A03) was identified within the southeast undercroft area;
- Non-asbestos containing gaskets (L1-A04) was identified to the pipework and pumps within the fire pump room;
- Non-asbestos containing millboard (L1-A05) was identified to the upper north wall within the fire pump room;
- Non-lead based red paint (L1-L01, 0.04% w/w) was identified to the hydrant pipework throughout the north undercroft area;
- Non-lead based red/brown paint (L1-L02, <0.01% w/w) was identified to the soil pipework within the southeast undercroft area;
- Lead-based red/blue paint (L1-L03, 6.6% w/w) was identified to the pumps within the fire pump room;
- Fluorescent lights were identified throughout and are suspected to contain PCB capacitors, however, a detailed inspection was not possible due to the supply of live electricity;
- Assumed SMF insulation was identified to packing pillows within the wall and ceiling penetrations throughout;
- Assumed SMF insulation was identified to pipework throughout; and
- Assumed SMF insulation was identified to the ductwork within the fire pump room.

3.1.2 Level 2

The Level 2 assessment area comprised the north lift foyer, offices and toilets, portions of the internal north carpark and associated storerooms, northern portion of the MTAU, and the fire control room, all within B89.

A summary of the significant observations made during the HBMS is as follows:

- The north lift foyer, offices and toilets comprised concrete floors with various floor coverings, fixed plasterboard and suspended tile ceilings, and plasterboard, fibre cement sheet and cement rendered masonry walls;
- The north carpark and associated storerooms comprised concrete floors and ceilings;
- The northern portion of the MTAU comprised concrete floors with carpet and vinyl floor coverings, plasterboard walls, and suspended tile ceilings;
- The fire control room comprised concrete floor and ceiling, and concrete block walls;
- Non-asbestos containing blue vinyl sheeting (L2-A01) was identified to flooring throughout the north lift foyer and corridor;
- Non-asbestos containing fibre cement sheeting (L2-A02) was identified to wall lining throughout the toilets;
- Non-asbestos containing vermiculite insulation (L2-A03) was identified to the pipework throughout the carpark and storerooms;
- Non-asbestos containing mastic (L2-A04) was identified to the wall expansion joint within the internal carpark;
- Non-asbestos containing mastic (L2-A05) was identified to the wall expansion joint within the fire control room;
- Non-lead based cream paint (L2-L01, <0.01% w/w) was identified to the walls throughout the fire control room;
- Non-asbestos containing black mastic (EM-01) was identified to the external wall expansion joint adjacent the carpark entry;
- Non-asbestos containing black mastic (EM-02) was identified to the external wall expansion joint adjacent the bottom of the carpark entry ramp;
- Non-asbestos containing grey mastic (EM-03) was identified to the external precast concrete wall expansion joint;
- Fluorescent lights were identified throughout and are suspected to contain PCB capacitors, however, a detailed inspection was not possible due to the supply of live electricity; and
- Assumed SMF materials were identified throughout the assessment area in various forms as follows:
    - Suspended ceiling tiles;
    - Insulation packing pillows to wall and ceiling penetrations; and
    - Insulation to pipework and ducting.

3.1.3 Level 3

The Level 3 assessment area comprised the Birthing Centre, north lift and entry foyer, Delivery Unit, Neonatal Intensive Care Unit (NICU), Intensive Care Unit (ICU), ICU offices/administration, atrium and external façade all within B89.

A summary of the significant observations made during the HBMS is as follows:

- The assessment area comprised concrete floors with various floor coverings, fixed plasterboard and suspended tile ceilings, and plasterboard, fibre cement sheet and cement rendered masonry walls;
- Non-asbestos containing fibre cement sheeting (L3-A01) was identified to walls of the toilets in the north foyer.
- Non-asbestos containing fibre cement sheeting (L3-A02) was identified to the wall panels of the atrium;
- Various coloured non-asbestos containing vinyl sheeting was identified throughout the Level 3 assessment area and are identified as follows:
    - Light blue vinyl sheeting (L3-A03) to the floors of the cleaners and dirty utility rooms within ICU;
    - Cream vinyl sheeting (L3-A04) to the walls of the cleaners and dirty utility room within ICU;
    - White vinyl sheeting (L3-A05) to the floor of the kitchen within ICU administration;
    - Light grey vinyl sheeting (L3-A06) to the floors throughout the ICU including corridors, storerooms and patient rooms;
    - Mottled blue vinyl sheeting (L3-A07) to the floors throughout the ICU including corridors, storerooms and patient rooms; and
    - Green vinyl sheeting (L3-A09) to the floors of the staff stations and corridors throughout the ICU.
- Non-asbestos containing fibre cement sheeting (L3-A08) was identified to the walls of the toilets, cleaners' rooms and dirty utility rooms throughout the ICU;
- Lead concentrations within settled dust below the adopted site criteria (L3-LD01, 130 mg/kg) was identified within the ICU administration ceiling cavity. This dust was also found not to contain asbestos (L3-AD01).
- Lead concentrations within settled dust below the adopted site criteria (L3-LD02, <5 mg/kg) was identified within the Neonatal ICU ceiling cavity. This dust was also found not to contain asbestos (L3-AD02).
- Fluorescent lights were identified throughout and are suspected to contain PCB capacitors, however, a detailed inspection was not possible due to the supply of live electricity.
- Assumed SMF materials were identified throughout the assessment area in various forms as follows:
    - Suspended ceiling tiles;
    - Insulation to flexible air conditioning ducting within ceiling cavities;
    - Insulation packing pillows to wall and ceiling penetrations; and
    - Internal insulation to instant and standard hot water systems.

3.1.4 Level 4

The Level 4 assessment area comprised the Staff Gymnasium, storerooms and Clinical Education centre within B63, small plant room and staff lift foyer in B75, and north lift foyer and stairs, Medical Records, Digital Health and Innovation, Radiology offices, Department of Anaesthetics, Café balcony and façade, and various plant rooms in B89.

A summary of the significant observations made during the HBMS is as follows:

- The Staff Gymnasium, storerooms and Clinical Education centre within B63 comprised concrete floors with various floor coverings, fixed plasterboard and suspected tile ceilings, and plasterboard and cement rendered masonry walls.
- The small plant room and staff lift foyer in B75 comprised concrete floors, exposed concrete ceilings, and exposed and cement rendered masonry walls.
- The north lift foyer and stair, Medical Records, Digital Health and Innovation, and Departments of Anaesthetics in B89 comprised concrete floors with various floor coverings, fixed and suspended tile ceilings, and a combination of plasterboard, fibre cement and cement rendered masonry walls.
- The Café balcony and external façade comprised a concrete slab floor, pebblecrete and cement rendered walls with a plasterboard ceiling;
- The plant rooms comprised concrete floors, concrete ceiling and a mixture of exposed brick, plasterboard and cement rendered walls;
- Non-asbestos containing mastic (L4-A01) was identified to the base of the Air Handling Unit (AHU) within the small plant room in B75;
- Asbestos containing mastic (L4-A02) was identified to the flange joint of the yellow AHU within the small plant room in B75;
- Asbestos containing gaskets (L4-A03) were identified to the chilled water pipework throughout the small plant room in B75;
- Non-asbestos containing fibre cement sheeting (L4-A04) was identified to the upper in-fill panels of the columns within the staff lift foyer in B75;
- Various coloured non-asbestos containing vinyl sheeting was identified throughout the Level 4 assessment area and are identified as follows:
    - Beige vinyl sheeting (L4-A05) to the floors throughout the main corridor and service corridors in B89;
    - Black vinyl sheeting (L4-A06) to the floor throughout the main corridor in B89;
    - Blue vinyl sheeting (L4-A07) to the floor of the utility rooms in B89;
    - White vinyl sheeting (L4-A08) to the walls of the utility rooms in B89;
    - Light grey vinyl sheeting (L4-A18) to the floor throughout the Café;
    - Blue vinyl sheeting (L4-A20) to the floor throughout the server room within Digital Health and Innovation in B89;
    - Blue vinyl sheeting (L4-A22) to the floor of the male/female changeroom of the Radiology offices in B89;
    - White vinyl sheeting (L4-A23) to the floor of the kitchen within the Radiology offices in B89; and
    - Green vinyl sheeting (L4-A26) to the floors throughout B63 assessment areas.
- Non-asbestos containing fibre cement sheeting (L4-A09) was identified to the walls throughout the utility room and staff toilets of the main corridor in B89;
- Non-asbestos containing fibre cement sheeting (L4-A10) was identified to the riser cabinet in the service corridor in B89;

- Non-asbestos containing mastic (L4-A11) was identified to the vertical expansion joints to the south wall of the service corridor in B89;
- Non-asbestos containing vermiculite fire proofing (L4-A12) was identified to the columns, ceiling and ductwork throughout the B89 plant room;
- Non-asbestos containing millboard (L4-A13) was identified to the floor, wall and ceiling penetrations and to the ductwork throughout B89 plant room;
- Non-asbestos containing fibre cement sheeting (L4-A14) was identified to the north wall of the south B89 plant room, located adjacent Department of Anaesthetics;
- Non-asbestos containing fibre cement sheeting (L4-A15) was identified to the wall linings of the north B89 plant room, located adjacent the glass stairwell;
- Non-asbestos containing cream mastic sealant (L4-A16) and black mastic sealant (L4-A17) were identified to the external façade expansion joints, accessed from the Café balcony;
- Asbestos containing millboard (L4-A19) was identified to the internal core of the fire doors throughout the B75 plant room. All fire doors within the B75 assessment area should be assumed to contain asbestos;
- Non-asbestos containing fibre cement sheeting (L4-A21) was identified to the walls of the male/female toilets within the changerooms of the Radiology Offices in B89;
- Non-asbestos containing fibre cement sheeting (L4-A24) was identified to the walls throughout the Anaesthetic offices in B89;
- Non-asbestos containing vermiculite (L4-A25) was identified to the fireproofing of the structural steel framework within the ceiling cavity of the storerooms in B63;
- Non-asbestos containing hessian lagging (L4-A27) was identified to the copper pipework to the Air Flow Unit within the B75 plant room;
- Lead concentrations within settled dust below the adopted site criteria (L4-LD01, 510 mg/kg) was identified to the floor surface within the air plenum associated with the B75 plant room. This dust was also found not to contain asbestos (L4-AD01).
- Lead concentrations within settled dust below the adopted site criteria (L4-LD02, 100 mg/kg) was identified within the main corridor ceiling cavity in B89. This dust was also found not to contain asbestos (L4-AD02).
- Non-lead based paint (L4-L01, 0.02% w/w) was identified to the cable trays within the B75 plant room;
- Non-lead based yellow paint (L4-L02, <0.01% w/w) was identified to AHU within the B75 plant room;
- Lead based green paint (L4-L03, 2.9% w/w) was identified to the steam humidifier within the B75 plant room;
- Non-lead based red paint (L4-L04, 0.03% w/w) was identified to the hydrant and sprinkler pipework throughout the main B89 plant room;
- Non-lead based orange paint (L4-L05, <0.01% w/w) was identified to the electrical cabinets within the main B89 plant room;
- Non-lead based cream paint (L4-L06, 0.09% w/w) was identified to the cement rendered walls of the storerooms in B63;

- Non-lead based white paint (L4-L07, 0.06% w/w) was identified to the timber windows within the storerooms in B63;
- Lead based green paint (L4-L08, 0.32% w/w) was identified to the metal pillars and door frames within the storerooms in B63;
- Lead based beige paint (L4-L09, 3.8% w/w) was identified to the concrete ceiling (within the ceiling cavity) within the storerooms in B63;
- Fluorescent lights were identified throughout and are suspected to contain PCB capacitors, however, a detailed inspection was not possible due to the supply of live electricity.
- Assumed SMF materials were identified throughout the assessment area in various forms as follows:
    - Suspended ceiling tiles;
    - Insulation to flexible air conditioning ducting within ceiling cavities;
    - Insulation to pipework throughout;
    - Insulation packing pillows to wall and ceiling penetrations; and
    - Internal insulation to instant and standard hot water systems.

3.1.5 Level 5

The Level 5 assessment area comprised the Laboratory in B77, the Emergency Department in B63 and B75, Radiology in B75 and B89, public corridors in B75 and B89, and lift foyers, Women's and Children's Ambulatory Care, Women's and Children's Health Administration, and Anti and Post Natal Wards in B89.

A summary of the significant observations made during the HBMS is as follows:

- The Laboratory within B77 comprised concrete floors with various floor coverings, plasterboard and cement rendered masonry walls, and fixed plasterboard and suspended tile ceilings;
- The Emergency Department, Radiology and public corridors in B75 and B89 comprised concrete floors with various floor coverings, fixed plasterboard and suspended tile ceilings, and a combination of plasterboard, fibre cement sheet and cement rendered masonry walls;
- The lift foyers, Women's and Childrens Ambulatory Care and Women's and Childrens Health Administration in B89 comprised concrete floors with various floor coverings, fixed plasterboard and suspended tile ceilings, and a combination of plasterboard, fibre cement sheet and cement rendered masonry walls;
- Various coloured non-asbestos containing vinyl sheeting was identified throughout the Level 5 assessment area and are identified as follows:
    - Beige vinyl sheeting (L5-A01) to the floor throughout the main corridor in B89;
    - Black vinyl sheeting (L5-A02) to the floor throughout the main corridor in B89;
    - Black vinyl sheeting (L5-A04) the floor of the northwest corridor in B89;
    - Cream vinyl sheeting (L5-A06) to the walls of the utility rooms, storerooms and cleaners' rooms throughout the Anti and Post Natal wards in B89;
    - Light blue vinyl sheeting (L5-A07) to the floors of the sink areas, staff rooms, kitchens, utility rooms and cleaners' rooms within the Anti and Post Natal wards in B89;

- Mottled blue vinyl sheeting (L5-A08) to the floors throughout the Anti and Post Natal wards in B89;
- Green vinyl sheeting (L5-A15) to the floors of the Radiology booking desk reception area in B89;
- Red vinyl sheeting (L5-A17) to the floors throughout Radiology waiting room in B89;
- Dark blue vinyl sheeting (L5-A22) to the floors throughout the Children's and Adults Emergency Departments in B63 and B75;
- Light grey vinyl sheeting (L5-A23) to the floors of the isolation room and bathroom in Emergency Department in B63;
- Dark grey vinyl sheeting (L5-A24) to the floors throughout the main corridors associated within the Emergency Department in B63; and
- Dark grey with white speckle vinyl sheeting (L5-A25) to the floors throughout resuscitation area in Emergency Department in B75;

- Non-asbestos containing fibre cement sheeting (L5-A03) was identified to the walls throughout the northern bathrooms in B89;
- Non-asbestos containing fibre cement sheeting (L5-A05) was identified to the walls throughout the bathrooms adjacent B75 central lifts;
- Non-asbestos containing fibre cement sheeting (L5-A09) was identified to the walls throughout the bathrooms, cleaners' and utility rooms in the Anti and Post Natal wards in B89;
- Non-asbestos containing millboard insulation (L5-A10) was identified to the electrical risers and floor penetrations in B89;
- Non-asbestos containing vermiculite insulation (L5-A11) was identified to the ductwork within the ceiling cavity of the Anti and Post Natal wards in B89;
- Non-asbestos containing fibre cement sheeting (L5-A12) was identified to the walls throughout the unisex changeroom/bathrooms in B89;
- Asbestos containing millboard (L5-A13) was identified to the core of the double fire door within the corridor adjacent the Radiology reception area, located within B75. All fire doors within B75 should be assumed to contain asbestos;
- Non-asbestos containing fibre cement sheeting (L5-A14) was identified to the walls to the staff bathroom within the Radiology reception area;
- Non-asbestos containing grey mastic (L5-A16) was identified to the brick wall expansion joint within the central corridor riser in Radiology;
- Non-asbestos containing black mastic (L5-A18) was identified to the fire door within the pathology area in B89;
- Non-asbestos containing fibre cement sheeting (L5-A19) was identified to the walls throughout the doffing ward within the Children's Emergency Department in B63;
- Non-asbestos containing fibre cement sheeting (L5-A20) was identified to walls throughout the doffing ward main corridor within the Children's Emergency Department in B63;
- Non-asbestos containing fibre cement sheeting (L5-A21) was identified to the walls throughout the plaster room, toilets and waiting room within the Emergency Department in B63;

- Lead concentrations within settled dust below the adopted site criteria (L5-LD01, 100 mg/kg) was identified within the B89 main corridor ceiling cavity. This dust was also found not to contain asbestos (L5-AD01).
- Lead concentrations within settled dust below the adopted site criteria (L5-LD02, 40 mg/kg) was identified within the Anti and Post Natal Ward ceiling cavity in B89. This dust was also found not to contain asbestos (L5-AD02).
- Lead concentrations within settled dust below the adopted site criteria (L5-LD03, 310 mg/kg) was identified within the Pathology ceiling cavity in B89. This dust was also found not to contain asbestos (L5-AD03).
- Lead based red paint (L5-L01, 0.49% w/w) was identified to the fire hydrant reel and door/frames within the Emergency Department;
- Non-lead based pink paint (L5-L02, 0.08% w/w) was identified to the columns and walls throughout the Emergency Department;
- Lead based cream/olive paint (L5-L03, 3.5% w/w) was identified to the original cement rendered walls within the Emergency Department ceiling cavity in B63;
- Lead based cream paint (L5-L04, 5.4% w/w) was identified to the cement rendered walls throughout the fire stairs in B63;
- Lead based green paint (L5-L05, 7.5% w/w) with cream undercoat was identified to the fire stair railing in B63;
- Lead based dark blue paint (L5-L06, 3.5% w/w) was identified to the arches, staff room and main corridors in the Emergency Department in B63;
- Lead based white paint (L5-L07, 1.8% w/w) was identified to the windowsills, frames and timber windows throughout the Emergency Department in B63;
- Fluorescent lights were identified throughout and are suspected to contain PCB capacitors, however, a detailed inspection was not possible due to the supply of live electricity.
- Assumed SMF materials were identified throughout the structure in various forms as follows:
    - Suspended ceiling tiles;
    - Insulation to flexible air conditioning ducting within ceiling cavities;
    - Insulation to pipework throughout;
    - Insulation packing pillows to wall and ceiling penetrations; and
    - Internal insulation to instant and standard hot water systems.

3.1.6 Level 6

The Level 6 assessment area comprised Nuclear Medicine and external roof area in B63, Cardiac Vascular Day Stay in B75, and plant rooms, external roof, Cardiac Catheter Laboratory, Coronary Care Unit (CCU), north lift foyer and corridors, Cardiology Ward, Cardiothoracic/Vascular Ward, Renal Ward in B89.

A summary of the significant observations made during the HBMS is as follows:

- Nuclear Medicine within B63 comprised concrete floors with various floor coverings, cement rendered masonry walls, and fixed and suspended tile ceilings;

- Cardiac Vascular Day Stay in B75, Cardiac Catheter Laboratory, CCU, north lift foyer and corridors, Cardiology Ward, Cardiothoracic/Vascular Ward and Renal Ward in B89 comprised concrete floors with various floor coverings, fixed plasterboard and suspended tile ceilings, and plasterboard, fibre cement sheet and cement rendered masonry walls;
- Non-asbestos containing fibre cement sheeting (L6-A01) was identified to the walls throughout north toilets in B89;
- Various coloured non-asbestos containing vinyl sheeting was identified throughout the Level 6 assessment area and are identified as follows:
    - Mottled blue vinyl sheeting (L6-A02) to the floors throughout Cardiac Catheter Laboratory, CCU, Cardiology Ward, Cardiothoracic/Vascular Ward and Renal Ward in B89;
    - Light blue vinyl sheeting (L6-A03) to the floors throughout sink areas, utility rooms, cleaners and kitchens within the Cardiac Catheter Laboratory, CCU, Cardiology Ward, Cardiothoracic/Vascular Ward and Renal Ward in B89;
    - Brown vinyl sheeting (L6-A04) to the walls throughout the utility rooms, storerooms and cleaner's rooms within the Cardiac Catheter Laboratory, CCU, Cardiology Ward, Cardiothoracic/Vascular Ward and Renal Ward in B89; and
    - Grey vinyl sheeting (L6-A13) to the floors of the kitchenette and laboratory within Nuclear Medicine in B63;
- Non-asbestos containing fibre cement sheeting (L6-A05) was identified to the walls throughout the bathrooms, showers, toilets, cleaners and utility rooms within the Cardiac Catheter Laboratory, CCU, Cardiology Ward, Cardiothoracic/Vascular Ward and Renal Ward in B89;
- Non-asbestos containing mastic (L6-A06) was identified to the wall expansion joint within the fire stairs in B89;
- Non-asbestos containing fibre cement sheeting (L6-A07) was identified to the external wall cladding to the B63 plant room;
- Non-asbestos containing fibre cement sheeting debris (L6-A08) was identified withing the guttering to the roof, adjacent the plant room in B63;
- Non-asbestos containing felt membrane (L6-A09) was identified to the flat roof sections underlying the surface pebble layer in B89;
- Non-asbestos containing putty (L6-A10) was identified to the external timber windows to B63 (accessed from the roof);
- Non-asbestos containing bituminous membrane (L6-A11) was identified to the surface membrane layer of the west roof located between B63 and B64. It is noted that in SEG 2022b, an asbestos containing fibrous membrane was identified underlying the surface non-asbestos containing layer (refer sample B64-L6-ROOF-ASB01). A representative sample of the underlying membrane layer was unable to be collected at the time of inspection without damaging the waterproofing integrity of the membrane, therefore, the asbestos containing membrane as identified in SEG 2022b, is still assumed to be present;
- Non-asbestos containing fibre cement sheeting (L6-A12) was identified to the staff toilet walls within the Cardiac Vascular Day Stay in B75;
- Non-asbestos containing fibrous material (L6-A14) was identified to the double brick wall cavity within the plant room in B63;

- Asbestos containing mastic sealant (L6-A15) was identified to the old timber windows within the small laboratory storage room in Nuclear Medicine within B63;
- Non-asbestos containing vermiculite insulation (L6-A16) was identified to the AHUs throughout plant room in B63;
- It is noted that assumed asbestos containing lagged pipework was identified within a storeroom adjacent to but outside of the Nuclear Medicine assessment area in B63. These assumed asbestos lagged pipes were observed to extend into Level 7 above and Level 5 below, however, were unable to be located on these levels. There is the potential for additional asbestos lagged pipework to be concealed within the assessment areas located across B63;
- Lead concentrations within settled dust below the adopted site criteria (L6-LD01, 49 mg/kg) was identified within the B89 main corridor ceiling cavity. This dust was also found not to contain asbestos (L6-AD01).
- Lead concentrations within settled dust below the adopted site criteria (L6-LD02, 56 mg/kg) was identified within the Cardiology Ward, Cardiothoracic/Vascular Ward and Renal Ward ceiling cavity in B89. This dust was also found not to contain asbestos (L6-AD02).
- Lead concentrations within settled dust below the adopted site criteria (L6-LD03, 26 mg/kg) was identified within the Cardiac Vascular Day Stay ceiling cavity in B75. This dust was also found not to contain asbestos (L6-AD03).
- Non-lead based red paint (L6-L01, 0.01% w/w) was identified to the hydrant and sprinkler pipework throughout B89;
- Lead based orange paint (L6-L02, 3.3% w/w) was identified to the external vent pipes to B63;
- Non-lead based brown paint (L6-L03, <0.01% w/w) was identified to the external vent grill to the B63 plant room;
- Lead based white paint (L6-L04, 5.3% w/w) was identified to the external timber windows to B63;
- Lead based blue paint (L6-L05, 0.11% w/w) was identified to the AHUs and ductwork within the B63 mechanical plant room;
- Lead based green/cream paint (L6-L06, 1.1% w/w) was identified to the masonry walls within the B63 mechanical plant room;
- Lead based cream paint (L6-L07, 2.0% w/w) was identified to the brick walls within the B63 plant room;
- Lead based white paint (L6-L08, 3.0% w/w) was identified to the internal timber within in Nuclear Medicine in B63;
- Fluorescent lights were identified throughout and are suspected to contain PCB capacitors, however, a detailed inspection was not possible due to the supply of live electricity.
- Assumed SMF materials were identified throughout the structure in various forms as follows:
    - Suspended ceiling tiles;
    - Insulation to flexible air conditioning ducting within ceiling cavities;
    - Insulation to pipework throughout;
    - Insulation to roof sarking;

- Insulation packing pillows to wall and ceiling penetrations; and
- Internal insulation to instant and standard hot water systems.

3.1.7 Level 7

The Level 7 assessment area comprised Nuclear Medicine in B63, and external roof and plant rooms in B89.

A summary of the significant observations made during the HBMS is as follows:

- Nuclear Medicine comprised three rooms with various floor coverings, fixed plasterboard and suspended tile ceilings, and plasterboard and cement rendered masonry walls;
- The plant rooms comprised concrete floors, corrugated metal sheet roof and metal panel clad walls;
- Non-asbestos containing vermiculite insulation (L7-A01) was identified to the ductwork within the B89 plant room;
- Non-asbestos containing millboard insulation (L7-A02) was identified as fireproofing panels to the ductwork and penetrations within the B89 plant room;
- Non-asbestos containing mastic sealant (L7-A03) was identified to the ductwork flange joints within the B89 plant room;
- Non-asbestos containing mastic (L7-A04) was identified to the wall expansion joint within the B89 plant room;
- Non-asbestos containing vermiculite insulation (L7-A05) was identified to the fire door core (2002 plate) within the B89 plant room;
- Non-asbestos containing felt membrane (L7-A06) was identified to the flat roof sections underlying the surface pebble layer in B89;
- Various coloured non-asbestos containing vinyl sheeting was identified throughout the Level 7 assessment area and are identified as follows:
  - Cream vinyl sheeting with grey speckle (L7-A07) to the flooring throughout the glass stairs in B89;
  - Blue speckled vinyl sheeting (L7-A09) to the floor throughout Nuclear Medicine in B63;
  - Orange vinyl sheeting (L7-A10) throughout X-ray room within Nuclear Medicine in B63; and
  - White vinyl sheeting (L7-A11) to lower splash walls throughout Nuclear Medicine in B63;
- Non-asbestos containing mastic (L7-A08) perimeter sealant was identified to the glass stairs and landings in B89;
- Lead concentrations within settled dust below the adopted site criteria (L7-LD01, 190 mg/kg) was identified to the floor of the B89 plant room. This dust was also found not to contain asbestos (L7-AD01).
- Lead based orange paint (L7-L01, 4.3 w/w) was identified to the electrical switchboard cabinets throughout the B89 plant room;
- Non-lead based high visibility yellow paint (L7-L02, <0.01% w/w) was identified to trip hazards throughout the B89 plant room;
- Non-lead based red paint (L7-L03, 0.05% w/w) was identified to the sprinkler/hydrant pipework throughout the B89 plant room;

- Lead based green paint (L7-L04, 0.15% w/w) was identified to the generators within the B89 plant room;
- Non-lead based grey paint (L7-L05, <0.01% w/w) was identified to the fire stair handrails in B89;
- Non-lead based blue paint (L7-L06, 0.03% w/w) was identified to the glass staircase steel frame within B89;
- Fluorescent lights were identified throughout and are suspected to contain PCB capacitors, however, a detailed inspection was not possible due to the supply of live electricity.
- Assumed SMF materials were identified throughout the structure in various forms as follows:
    - Suspended ceiling tiles;
    - Insultation to wall and roof sarking;
    - Insulation to flexible air conditioning ducting within ceiling cavities;
    - Insulation to pipework throughout;
    - Insulation packing pillows to wall and ceiling penetrations; and
    - Internal insulation to instant and standard hot water systems.

3.2 Gate House Building

The Gate House Building was located on the corner of John Hopkins Drive and Missenden Road. The single storey structure comprised a corrugated steel sheet roof, exposed brick walls, fibre cement sheet ceiling, and a concrete slab floor.

A summary of the significant observations made during the HBMS is as follows:

- Non-asbestos containing putty (GH-A01) was identified to the external timber windows;
- Asbestos containing fibre cement sheeting (GH-A02) was identified to the eaves;
- Non-asbestos containing blue vinyl tiles (GH-A03) were identified to the floor;
- Asbestos containing fibre cement sheeting (GH-A04) was identified to the ceiling;
- Non-lead based white paint (GH-L01, <0.01% w/w) was identified to the timber windows;
- Non-lead based white paint (GH-L02, 0.09% w/w) was identified to the internal brick walls;
- Fluorescent lights were identified throughout and are suspected to contain PCB capacitors, however, a detailed inspection was not possible due to the supply of live electricity.
- Assumed SMF internal insulation was identified to the ‘Zip hydrotap’ within the kitchenette.

4. Results

4.1 Hazardous Materials

All identified hazardous materials are recorded in the Hazardous Materials Register in **Appendix A** with relevant photographs in **Appendix B**. NATA accredited laboratory analysis reports and chain of custody are provided in **Appendix C**.

4.1.1 Asbestos Containing Materials

ACM were identified by testing at an accredited NATA laboratory and/or visual inspection using the experience of the hazardous materials surveyor. A summary of the results of laboratory testing for asbestos are provided in **Table 4.1** below.

Table 4.1: Asbestos Results Summary Table

Sample ID	Lab ID	Sample Location	Results	Observed Condition
Level 1 – Main Building				
L1-A01	S23-Jn0069842	Northeast undercroft area, fireproofing to ductwork – cream vermiculite	No asbestos detected	N/A
L1-A02	S23-Jn0069843	Northeast undercroft area, fireproofing to ductwork – grey vermiculite	No asbestos detected	N/A
L1-A03	S23-Jn0069844	Southeast undercroft area – fibre cement pipe	No asbestos detected	N/A
L1-A04	S23-Jn0069845	Fire pump room, pipework and pumps – gasket	No asbestos detected	N/A
L1-A05	S23-Jn0069846	Fire pump room, upper north wall – millboard	No asbestos detected	N/A
Level 2 – Main Building				
L2-A01	S23-Jn0069850	North lift foyer and corridor, floor – blue vinyl sheeting	No asbestos detected	N/A
L2-A02	S23-Jn0069851	Toilets, walls – fibre cement sheeting	No asbestos detected	N/A
L2-A03	S23-Jn0069852	Carpark and storerooms, pipework – vermiculite insulation	No asbestos detected	N/A
L2-A04	S23-Jn0069853	Internal carpark area, wall expansion joint – grey mastic	No asbestos detected	N/A
L2-A05	S23-Jn0069854	Fire control room, wall expansion joint – mastic	No asbestos detected	N/A
EM-01	S23-JI0019870	Adjacent carpark entry, wall expansion joint – black mastic	No asbestos detected	N/A
EM-02	S23-JI0019871	Carpark entry ramp, external wall expansion joint – black mastic	No asbestos detected	N/A
EM-03	S23-JI0019872	External precast concrete, wall expansion joint – grey mastic	No asbestos detected	N/A
Level 3 – Main Building				
L3-A01	S23-Jn0069856	B89, north foyer, toilets, walls – fibre cement sheeting	No asbestos detected	N/A
L3-A02	S23-Jn0069857	Atrium, wall panels – fibre cement sheeting	No asbestos detected	N/A
L3-A03	S23-Jn0069858	B89, ICU, cleaners and dirty utility rooms, floor – light blue vinyl sheeting	No asbestos detected	N/A
L3-A04	S23-Jn0069859	B89, ICU, cleaners and dirty utility room, walls – cream vinyl sheeting	No asbestos detected	N/A
L3-A05	S23-Jn0069860	B89, ICU Administration, kitchen, floor – white vinyl floor sheeting	No asbestos detected	N/A
L3-A06	S23-Jn0069861	B89, ICU, corridors, storerooms and patient rooms, floor – light grey vinyl sheeting	No asbestos detected	N/A
L3-A07	S23-Jn0069862	B89, ICU, corridors, storerooms and patient rooms, floor – mottled blue vinyl sheeting	No asbestos detected	N/A
L3-A08	S23-Jn0069863	B89, ICU, toilets, cleaners and dirty utility rooms, walls – fibre cement sheeting	No asbestos detected	N/A
L3-A09	S23-Jn0069864	B89, ICU, staff stations and corridors, floor – green vinyl sheeting	No asbestos detected	N/A
Level 4 – Main Building				
L4-A01	S23-Jn0069869	B75, plant room, base of AHU – mastic	No asbestos detected	N/A

Sample ID	Lab ID	Sample Location	Results	Observed Condition
L4-A02	S23-Jn0069870	B75, plant room, yellow AHU and ductwork, flange joints – mastic	**Chrysotile Asbestos**	Non-Friable
L4-A03	S23-Jn0069871	B75, plant room, chilled water pipework – gasket	**Chrysotile Asbestos**	Non-Friable
L4-A04	S23-Jn0069872	B75, lift foyer, upper wall infill panels – fibre cement sheeting	No asbestos detected	N/A
L4-A05	S23-Jn0069873	B89, main and service corridors, floor – beige vinyl sheeting	No asbestos detected	N/A
L4-A06	S23-Jn0069874	B89, main corridor, floor – black vinyl sheeting	No asbestos detected	N/A
L4-A07	S23-Jn0069875	B89, utility rooms, floor – blue vinyl sheeting	No asbestos detected	N/A
L4-A08	S23-Jn0069876	B89, utility rooms, walls– white vinyl sheeting	No asbestos detected	N/A
L4-A09	S23-Jn0069877	B89, main corridor, utility room and staff toilets, walls – fibre cement sheeting	No asbestos detected	N/A
L4-A10	S23-Jn0069878	B89, service corridor, riser cabinet – fibre cement sheeting	No asbestos detected	N/A
L4-A11	S23-Jn0069879	B89, service corridor, south wall, expansion joint – mastic	No asbestos detected	N/A
L4-A12	S23-Jn0069880	B89, main plant room, columns, ceiling and ducting – vermiculite	No asbestos detected	N/A
L4-A13	S23-Jn0069881	B89, main plant room, ducting and penetrations – millboard	No asbestos detected	N/A
L4-A14	S23-Jn0069882	B89, south plant room, north wall – fibre cement sheeting	No asbestos detected	N/A
L4-A15	S23-Jn0069883	B89, north plant room, wall lining – fibre cement sheeting	No asbestos detected	N/A
L4-A16	S23-Jn0069884	B89, external façade, wall expansion joint – cream mastic	No asbestos detected	N/A
L4-A17	S23-Jn0069885	B89, external façade, wall expansion joint – black mastic	No asbestos detected	N/A
L4-A18	S23-Jn0069886	B89, Café, floor – light grey vinyl sheeting	No asbestos detected	N/A
L4-A19	S23-Jn0069887	B75, plant room, fire doors, internal core – millboard	**Chrysotile and Amosite Asbestos**	Friable
L4-A20	S23-Jn0069888	B89, Digital, Health and Innovation, server room, floor – blue vinyl sheeting	No asbestos detected	N/A
L4-A21	S23-Jn0069889	B89, Radiology Offices, male/female toilets within changeroom, walls – fibre cement sheeting	No asbestos detected	N/A
L4-A22	S23-Jn0069890	B89, Radiology Offices, male/female toilets, floor – blue vinyl sheeting	No asbestos detected	N/A
L4-A23	S23-Jn0069891	B89, Radiology Offices, kitchen, floor – white vinyl sheeting	No asbestos detected	N/A
L4-A24	S23-Jn0069892	B89, Anaesthetic offices, toilet walls – fibre cement sheeting	No asbestos detected	N/A
L4-A25	S23-Jn0069893	B63, storerooms, ceiling cavity, fireproofing to steel framework – Vermiculite insulation	No asbestos detected	N/A
L4-A26	S23-Jn0069894	B63, floor throughout – green vinyl sheeting	No asbestos detected	N/A
L4-A27	S23-Jn0069990	B75, plant room, Air Flow Unit, pipework – hessian lagging	No asbestos detected	N/A
Level 5 – Main Building				
L5-A01	S23-Jn0069908	B89, main corridor, floor – beige vinyl sheeting	No asbestos detected	N/A
L5-A02	S23-Jn0069909	B89, main corridor, floor – black vinyl sheeting	No asbestos detected	N/A
L5-A03	S23-Jn0069910	B89, north bathrooms, walls – fibre cement sheeting	No asbestos detected	N/A
L5-A04	S23-Jn0069911	B89, north west corridor, floor – black vinyl sheeting	No asbestos detected	N/A
L5-A05	S23-Jn0069912	B75, adjacent lift foyer, toilets, walls – fibre cement sheeting	No asbestos detected	N/A
L5-A06	S23-Jn0069913	B89, Anti and Post Natal wards, utility rooms, store rooms and cleaners, walls – cream vinyl sheeting	No asbestos detected	N/A

Sample ID	Lab ID	Sample Location	Results	Observed Condition
L5-A07	S23-Jn0069914	B89, Anti and Post Natal wards, sink areas, staff rooms, kitchens, utility rooms and cleaners, floor – light blue vinyl sheeting	No asbestos detected	N/A
L5-A08	S23-Jn0069915	B89, Anti and Post Natal wards, floor throughout – mottled blue vinyl sheeting	No asbestos detected	N/A
L5-A09	S23-Jn0069916	B89, Anti and Post Natal wards, toilets, bathrooms, cleaners and utility, walls – fibre cement sheeting	No asbestos detected	N/A
L5-A10	S23-Jn0069917	B89, electrical risers, floor penetrations – millboard	No asbestos detected	N/A
L5-A11	S23-Jn0069918	B89, Anti and Post Natal wards, ceiling cavity, fireproofing to ductwork – vermiculite insulation	No asbestos detected	N/A
L5-A12	S23-Jn0069960	B89, unisex changeroom/toilet, wall linings – fibre cement sheeting	No asbestos detected	N/A
L5-A13	S23-Jn0069961	B75, Radiology, main corridor adjacent reception, double fire doors, internal core – millboard	**Chrysotile and Amosite Asbestos**	Friable
L5-A14	S23-Jn0069962	B75, Radiology, reception area, staff toilet, walls – fibre cement sheeting	No asbestos detected	N/A
L5-A15	S23-Jn0069963	B89, Radiology, booking desk reception area, floor – green vinyl sheeting	No asbestos detected	N/A
L5-A16	S23-Jn0069964	B89, Radiology, central portion, riser in corridor, wall expansion joint – grey mastic	No asbestos detected	N/A
L5-A17	S23-Jn0069965	B89, Radiology, waiting room, staff desk platform, floor – red vinyl sheeting	No asbestos detected	N/A
L5-A18	S23-Jn0069966	B89, Pathology, fire door – black mastic	No asbestos detected	N/A
L5-A19	S23-Jn0069967	B63, Children's Emergency Department, doffing ward, storeroom 1, wall lining – fibre cement sheeting	No asbestos detected	N/A
L5-A20	S23-Jn0069968	B63, Children's Emergency Department, children's play area corridor, wall lining – fibre cement sheeting	No asbestos detected	N/A
L5-A21	S23-Jn0069969	B63, Emergency Department, waiting area, plaster room and toilets, wall lining – fibre cement sheeting	No asbestos detected	N/A
L5-A22	S23-Jn0069970	B63, Emergency Department, utility rooms, floor – dark blue vinyl sheeting	No asbestos detected	N/A
L5-A23	S23-Jn0069971	B63, Emergency Department, quarantine room/toilet, floor – light grey vinyl sheeting	No asbestos detected	N/A
L5-A24	S23-Jn0069972	B63, Emergency Department, main corridor, floor – dark grey vinyl sheeting	No asbestos detected	N/A
L5-A25	S23-Jn0069973	B75, Emergency Department, resuscitation area, floor – dark grey speckle vinyl sheeting	No asbestos detected	N/A
Level 6 – Main Building				
L6-A01	S23-Jn0069923	B89, north toilets, walls – fibre cement sheeting	No asbestos detected	N/A
L6-A02	S23-Jn0069924	B89, Cardiac Catheter Laboratory, CCU, Cardiology Ward, Cardiothoracic/Vascular Ward and Renal Ward, floor– mottled blue vinyl sheeting	No asbestos detected	N/A
L6-A03	S23-Jn0069925	B89, Cardiac Catheter Laboratory, CCU, Cardiology Ward, Cardiothoracic/Vascular Ward and Renal Wards, sink areas, utility rooms, cleaners and kitchen, floor – light blue vinyl sheeting	No asbestos detected	N/A
L6-A04	S23-Jn0069926	B89, Cardiac Catheter Laboratory, CCU, Cardiology Ward, Cardiothoracic/Vascular Ward and Renal Ward, utility rooms, store room areas and cleaners, walls – brown vinyl sheeting	No asbestos detected	N/A
L6-A05	S23-Jn0069927	B89, Cardiac Catheter Laboratory, CCU, Cardiology Ward, Cardiothoracic/Vascular Ward and Renal Ward, bathrooms, showers, toilets, cleaners and utility rooms, walls – fibre cement sheeting	No asbestos detected	N/A

Sample ID	Lab ID	Sample Location	Results	Observed Condition
L6-A06	S23-Jn0069928	B89, fire stairs – wall expansion joint	No asbestos detected	N/A
L6-A07	S23-Jn0069929	B63, mechanical plant room, external wall cladding – fibre cement sheeting	No asbestos detected	N/A
L6-A08	S23-Jn0069930	B63, roof guttering, debris – fibre cement sheeting	No asbestos detected	N/A
L6-A09	S23-Jn0069931	B89, flat roof, underlying surface pebble layer – felt membrane	No asbestos detected	N/A
L6-A10	S23-Jn0069932	B63, external timber windows – putty	No asbestos detected	N/A
L6-A11	S23-Jn0069933	Between B63 & B64, west roof, surface waterproofing membrane – bituminous membrane	No asbestos detected	N/A
L6-A12	S23-Jn0069982	B75, Cardiac Vascular Bay, staff toilets, walls – fibre cement sheeting	No asbestos detected	N/A
L6-A13	S23-JI0019831	B63, Nuclear Medicine, kitchenette and laboratory floor – grey vinyl sheeting	No asbestos detected	N/A
L6-A14	S23-JI0019832	B63, plant room, wall cavity – fibrous material	No asbestos detected	N/A
L6-A15	S23-JI0019833	B63, Nuclear Medicine, small laboratory storage room, timber windows – mastic	**Chrysotile Asbestos**	Non-Friable
L6-A16	S23-JI0019834	B63, plant room, AHUs – vermiculite insulation	No asbestos detected	N/A
Level 7 – Main Building				
L7-A01	S23-Jn0069944	B89, plant room, fireproofing to ductwork – vermiculite insulation	No asbestos detected	N/A
L7-A02	S23-Jn0069945	B89, plant room, fireproofing panels to ductwork and penetrations – millboard insulation	No asbestos detected	N/A
L7-A03	S23-Jn0069946	B89, plant room, sealant to ductwork flange joints – mastic	No asbestos detected	N/A
L7-A04	S23-Jn0069947	B89, plant room, expansion joints in concrete block walls – mastic	No asbestos detected	N/A
L7-A05	S23-Jn0069948	B89, plant room, fire doors, internal core – vermiculite insulation	No asbestos detected	N/A
L7-A06	S23-Jn0069949	B89, flat roof, beneath surface pebble layer, waterproofing membrane – felt membrane	No asbestos detected	N/A
L7-A07	S23-Jn0069950	B89, glass staircase, floor – cream vinyl sheeting with speckle	No asbestos detected	N/A
L7-A08	S23-Jn0069951	B89, glass staircase, perimeter sealant – mastic	No asbestos detected	N/A
L7-A09	S23-JI0019837	B63, Nuclear Medicine, floor throughout – blue speckled vinyl sheeting	No asbestos detected	N/A
L7-A10	S23-JI0019838	B63, Nuclear Medicine, X-ray room, floor – orange vinyl sheeting	No asbestos detected	N/A
L7-A11	S23-JI0019839	B63, Nuclear Medicine, lower splash walls – white vinyl sheeting	No asbestos detected	N/A
Gate House				
GH-A01	S23-Jn0070037	External, windows – putty	No asbestos detected	N/A
GH-A02	S23-Jn0070038	Eaves – fibre cement sheeting	**Chrysotile Asbestos**	Non-Friable
GH-A03	S23-Jn0070039	Internal, floor – blue vinyl floor tiles	No asbestos detected	N/A
GH-A04	S23-Jn0070040	Ceiling – fibre cement sheeting	**Chrysotile Asbestos**	Non-Friable

4.1.2 Asbestos Containing Dust

Representative dust samples were collected throughout the site. A summary of the results of the laboratory testing for asbestos are provided in **Table 4.2** below.

Table 4.2: Asbestos Dust Results Summary Table

Sample ID	Lab ID	Sample Location	Results	Observed Condition
Level 1 – Main Building				
No dust samples were taken at the time of inspection.				
Level 2 – Main Building				
No dust samples were taken at the time of inspection.				
Level 3 – Main Building				
L3-AD01	S23-Jn0069865	B89, ICU Administration, ceiling cavity – settled dust	No asbestos detected	N/A
L3-AD02	S23-Jn0069866	B89, NICU, ceiling cavity – settled dust	No asbestos detected	N/A
Level 4 – Main Building				
L4-AD01	S23-Jn0069895	B75, plant room, air plenum, floor – settled dust	No asbestos detected	N/A
L4-AD02	S23-Jn0069896	B89, main corridor, ceiling cavity – settled dust	No asbestos detected	N/A
Level 5 – Main Building				
L5-AD01	S23-Jn0069921	B89, main corridor, ceiling cavity – settled dust	No asbestos detected	N/A
L5-AD02	S23-Jn0069922	B89, Anti and Post Natal wards, ceiling cavity – settled dust	No asbestos detected	N/A
Level 6 – Main Building				
L6-AD01	S23-Jn0069934	B89, main corridor, ceiling cavity – settled dust	No asbestos detected	N/A
L6-AD02	S23-Jn0069935	B89, Cardiology Ward, Cardiothoracic/Vascular Ward and Renal Ward, ceiling cavity – settled dust	No asbestos detected	N/A
L6-AD03	S23-Jn0069983	B75, Cardiac Vascular Day Stay, ceiling cavity – settled dust	No asbestos detected	N/A
Level 7 – Main Building				
L7-AD01	S23-Jn0069952	B89, plant room, floor – settled dust	No asbestos detected	N/A
Gate House				
No dust samples were taken at the time of inspection.				

4.1.3 Lead Containing Dust

Representative dust samples were collected throughout the site. A summary of the results of the laboratory testing for lead are provided in **Table 4.3** below.

Table 4.3: Lead Dust Results Summary Table

Sample ID	Lab ID	Sample Location	Results	Observed Condition
Level 1 – Main Building				
No dust samples were taken at the time of inspection.				
Level 2 – Main Building				
No dust samples were taken at the time of inspection.				
Level 3 – Main Building				
L3-LD01	S23-Jn0069867	B89, ICU Administration, ceiling cavity – settled dust	130 mg/kg	N/A
L3-LD02	S23-Jn0069868	B89, NICU, ceiling cavity – settled dust	<5 mg/kg	N/A
Level 4 – Main Building				
L4-LD01	S23-Jn0069897	B75, plant room, air plenum, floor – settled dust	510 mg/kg	N/A
L4-LD02	S23-Jn0069898	B89, main corridor, ceiling cavity – settled dust	100 mg/kg	N/A
Level 5 – Main Building				
L5-LD01	S23-Jn0069919	B89, main corridor, ceiling cavity – settled dust	100 mg/kg	N/A
L5-LD02	S23-Jn0069920	B89, Anti and Post Natal wards, ceiling cavity – settled dust	40 mg/kg	N/A
Level 6 – Main Building				
L6-LD01	S23-Jn0069936	B89, main corridor, ceiling cavity – settled dust	49 mg/kg	N/A
L6-LD02	S23-Jn0069937	B89, Cardiology Ward, Cardiothoracic/Vascular Ward and Renal Ward, ceiling cavity – settled dust	56 mg/kg	N/A

Sample ID	Lab ID	Sample Location	Results	Observed Condition
L6-LD03	S23-Jn0069984	B75, Cardiac Vascular Day Stay, ceiling cavity – settled dust	26 mg/kg	N/A
Level 7 – Main Building				
L7-LD01	S23-Jn0069953	B89, plant room, floor – settled dust	190 mg/kg	N/A
Gate House				
No dust samples were taken at the time of inspection.				

4.1.4 Lead Based Paints

Representative paint samples were collected throughout the site for laboratory testing. A summary of the results of laboratory testing for lead are provided in **Table 4.4** below.

Table 4.4: Lead Paint Results Summary Table

Sample ID	Lab ID	Sample Location	Results	Observed Condition
Level 1 – Main Building				
L1-L01	S23-Jn0069847	North undercroft area, hydrant pipework – red paint	0.04% w/w (Non-lead based paint)	N/A
L1-L02	S23-Jn0069848	North undercroft area, soil pipework – red/brown paint	<0.01% w/w (Non-lead based paint)	N/A
L1-L03	S23-Jn0069849	Fire pump room, pumps – red/blue paint	**6.6% w/w (Lead based paint)**	Poor
Level 2 – Main Building				
L2-L01	S23-Jn0069855	Fire control room, walls – cream paint	<0.01% w/w (Non-lead based paint)	N/A
Level 3 – Main Building				
No paint samples were taken at the time of inspection.				
Level 4 – Main Building				
L4-L01	S23-Jn0069899	B75, plant room, cable trays – orange paint	0.02% w/w (Non-lead based paint)	N/A
L4-L02	S23-Jn0069900	B75, plant room, AHU – yellow paint	<0.01% w/w (Non-lead based paint)	N/A
L4-L03	S23-Jn0069901	B75, plant room, steam humidifier – green paint	**2.9% w/w (Lead based paint)**	Fair
L4-L04	S23-Jn0069902	B89, main plant room, hydrant and sprinkler pipework – red paint	0.03% w/w (Non-lead based paint)	N/A
L4-L05	S23-Jn0069903	B89, main plant room, electrical cabinets – orange point	<0.01% w/w (Non-lead based paint)	N/A
L4-L06	S23-Jn0069904	B63, storerooms, cement rendered walls – cream paint	0.09% w/w (Non-lead based paint)	N/A
L4-L07	S23-Jn0069905	B63, storerooms, timber windows – white paint	0.06% w/w (Non-lead based paint)	N/A
L4-L08	S23-Jn0069906	B63, storerooms, metal pillars/door frames – green paint	**0.32% w/w (Lead based paint)**	Fair
L4-L09	S23-Jn0069907	B63, storerooms, concrete ceiling (within ceiling cavity) – white paint	**3.8% w/w (Lead based paint)**	Poor
Level 5 – Main Building				
L5-L01	S23-Jn0070191	B63, Emergency Department, fire hydrant and door/frames – red paint	**0.49% w/w (Lead based paint)**	Good
L5-L02	S23-Jn0069976	B63, Emergency Department, concrete columns and walls – pink paint	0.08% w/w (Non-lead based paint)	N/A
L5-L03	S23-Jn0069977	B63, Emergency Department, ceiling cavity, riser cement rendered walls – cream/olive paint	**3.5% w/w (Lead based paint)**	Poor
L5-L04	S23-Jn0069978	B63, fire stairs, cement rendered walls – cream paint	**5.4% w/w (Lead based paint)**	Fair
L5-L05	S23-Jn0069979	B63, fire stairs, railings – green paint with cream underlay	**7.5% w/w (Lead based paint)**	Fair
L5-L06	S23-Jn0069980	B63, Emergency Department, arches, staff rooms and main corridor – dark blue paint	**3.0% w/w (Lead based paint)**	Fair

Sample ID	Lab ID	Sample Location	Results	Observed Condition
L5-L07	S23-Jn0069981	B63, Emergency Department, window sill, frames and timber windows – white paint	**1.8% w/w (Lead based paint)**	Fair
Level 6 – Main Building				
L6-L01	S23-Jn0069938	B89, hydrant and sprinkler pipework – red paint	0.01% w/w (Non-lead based paint)	N/A
L6-L02	S23-Jn0069939	B63, roof, external vent pipes – orange paint	**3.3% w/w (Lead based paint)**	Poor
L6-L03	S23-Jn0069940	B63, roof, external vent grill to plant room – brown paint	<0.01% w/w (Non-lead based paint)	N/A
L6-L04	S23-Jn0069941	B63, external timber windows – white paint	**5.3% w/w (Lead based paint)**	Poor
L6-L05	S23-Jn0069942	B63, mechanical plant room, AHUs and ductwork – blue paint	**0.11% w/w (Lead based paint)**	Fair
L6-L06	S23-Jn0069943	B63, mechanical plant room, masonry walls– green/cream paint	**1.1% w/w (Lead based paint)**	Fair
L6-L07	S23-JI0019836	B63, plant room, double brick walls – cream paint	**2.0% w/w (Lead based paint)**	Fair
L6-L08	S23-JI0019837	B63, internal timber windows – white paint	**3.0% w/w (Lead based paint)**	Poor
Level 7 – Main Building				
L7-L01	S23-Jn0069954	B89, plant room, electrical switchboard cabinets – orange paint	**4.3% w/w (Lead based paint)**	Good
L7-L02	S23-Jn0069955	B89, plant room, high visibility trip hazard paint throughout – yellow paint	<0.01% w/w (Non-lead based paint)	N/A
L7-L03	S23-Jn0069956	B89, sprinkler/hydrant pipework – red paint	0.05% w/w (Non-lead based paint)	N/A
L7-L04	S23-Jn0069957	B89, plant room generators – green paint	**0.15% w/w (Lead based paint)**	Fair
L7-L05	S23-Jn0069958	B89, fire stair handrails – grey paint	<0.01% w/w (Non-lead based paint)	N/A
L7-L06	S23-Jn0069959	B89, glass staircase, steel frame – blue paint	0.03% w/w (Non-lead based paint)	N/A
Gate House				
GH-L01	S23-Jn0070041	External, timber windows/frames – white paint	<0.01% w/w (Non-lead based paint)	N/A
GH-L02	S23-Jn0070042	Internal, brick walls – white paint	0.09% w/w (Non-lead based paint)	N/A

4.1.5 Polychlorinated Biphenyls

Detailed inspection of capacitors in light fittings could not be undertaken due to the electricity supply to the fittings being active. Therefore, PCB containing capacitors are assumed to be present within the older light fittings throughout the site.

4.1.6 Synthetic Mineral Fibres

Suspected SMF materials were identified in various forms throughout the site. Full details of all identified SMF materials are provided in the Hazardous Materials Register (**Appendix A**). The typical forms of SMF identified are summarised below:

- Suspended ceiling tiles;
- Insulation to fixed and flexible air conditioning ducting;
- Insulation to pipework;
- Insulation packing pillows to wall and ceiling penetrations;
- Insulation to wall and roof sarking; and
- Internal insulation to instant and standard hot water systems.

4.2 Inaccessible Areas

Although no specific assessment areas were classified as inaccessible areas, due to the operational nature of the hospital, there was restricted access to some staff and patient areas, primarily within high risk areas of the hospital including the Emergency Department and Intensive Care Units.

5. Conclusions and Recommendations

Based on the scope of this assessment and with reference to the limitations included in **Section 6**, the following conclusions are made with respect to the Hazardous Materials Survey completed.

5.1 Hazardous Materials

Identified and suspected hazardous materials were observed throughout the site as a result of visual identification and laboratory analysis.

The following recommendations are made for the removal of the identified hazardous materials to potentially mitigate harmful effects as a result of the proposed works program. The person with management or control of the site, must ensure so far as is reasonably practicable that the identified hazardous materials are removed prior to the commencement of demolition works.

The identified and suspected hazardous materials are presented in the Hazardous Materials Register included as **Appendix A**.

5.1.1 Asbestos Containing Materials

Friable and Non-friable ACM has been identified in various forms throughout the surveyed areas of the site. Prior to the commencement of demolition works, it is recommended that the following work is undertaken:

- A Class A licensed asbestos removalist shall be engaged to remove all asbestos containing materials as identified in the Hazardous Materials Register (**Appendix A**). Removal and disposal of non-friable asbestos materials shall be undertaken in accordance with the *Work Health and Safety Act (*2011), *Work Health and Safety Regulation* (2017) and SWNSW 2022a.
- A notification to remove friable asbestos shall be submitted to SafeWork NSW by the engaged Class A contractor prior to works commencing. No asbestos removal works should commence until receipt of the accepted notification to remove friable asbestos from SafeWork NSW.
- An asbestos removal control plan is to be developed by the engaged Class A licensed asbestos removalist prior to the removal works, outlining the specific removal methodologies and control measures necessary to minimise any risk from exposure to asbestos.
- Asbestos waste and asbestos impacted waste materials shall be disposed of to an appropriately licensed landfill in accordance with NSW EPA 2014.
- Asbestos air monitoring must be undertaken by the independent Licensed Asbestos Assessor (LAA) during all friable asbestos removal works and is also strongly recommended to be undertaken during non-friable asbestos removal activities.
- Following completion of the friable and non-friable asbestos removal works within assessment area, a clearance inspection shall be undertaken by the independent LAA to ensure that all the asbestos containing materials identified in the Hazardous Materials Register (**Appendix A**) have been removed to a satisfactory industry standard.
- Following the completion of the clearance inspection, a clearance certificate shall be issued by the LAA to confirm that the identified friable and non-friable asbestos hazards have been successfully removed and that each structure is suitable for proposed demolition works to commence.

5.1.2 Lead Containing Dust

No elevated levels of lead in dust above the adopted site criteria were identified at the site.

5.1.3 Lead Based Paints

The lead based paints, as identified in Hazardous Materials Register (**Appendix A**), ranged in condition from poor to good and should be managed in accordance with the AS4361.2-2017. Where peeling or deteriorated they should be removed under controlled conditions by an experienced contractor prior to demolition. Stable lead based paints adhered to building fabric can be disposed as general solid waste in accordance with NSW EPA 2014, provided care is taken to minimise any potential for paint flakes to be dispersed onto ground surfaces and building and demolition waste is not proposed to be recycled.

Where building and demolition wastes are proposed to be recycled that are impacted by lead paints, the lead paints must be stripped prior to off-site disposal. The removed lead paint waste must be disposed of as hazardous waste in accordance with NSW EPA 2014.

5.1.4 Polychlorinated Biphenyls

All old fluorescent light fittings throughout the site are to be treated as containing PCB capacitors unless further investigation confirms otherwise. These light fittings should be removed and disposed of as Scheduled Waste or re-inspected once safe access can be provided to confirm the presence or absence of PCB capacitors.

5.1.5 Synthetic Mineral Fibres

The synthetic mineral fibres encountered during this inspection were generally contained and deemed to be low risk. These SMF materials can be removed with the building and demolition waste with care taken not to generate fibres. Appropriate PPE is recommended including the use of P2 respirator as minimum and appropriate removal methodology as outlined in [NOHSC: 1004(1990)] and [NOHSC: 2006(1990)].

5.2 Inaccessible Areas

Areas inaccessible during the current HBMS should be inspected by a suitably qualified competent person prior to any works commencing. Suspected ACM should be sampled by a suitably qualified competent person prior to any works commencing.

5.3 Unexpected Finds

Any materials deemed to be consistent with those detailed in the Hazardous Materials Register that have not been previously identified should be assumed to have the same content and be treated accordingly.

Should any additional suspected hazardous materials be observed during or prior to demolition works, works should cease until a suitably qualified occupational hygienist can assess the suspected hazardous material and provide appropriate recommendations for management and/or removal.

6. Limitations

This report has been prepared for use by the client who has commissioned the works in accordance with the project brief only, and has been based in part on information obtained from the client and other parties.

The advice herein relates only to this project and all results conclusions and recommendations made should be reviewed by a competent person with experience in environmental investigations, before being used for any other purpose.

JBS&G accepts no liability for use or interpretation by any person or body other than the client who commissioned the works. This report should not be reproduced without prior approval by the client, or amended in any way without prior approval by JBS&G, and should not be relied upon by other parties, who should make their own enquiries.

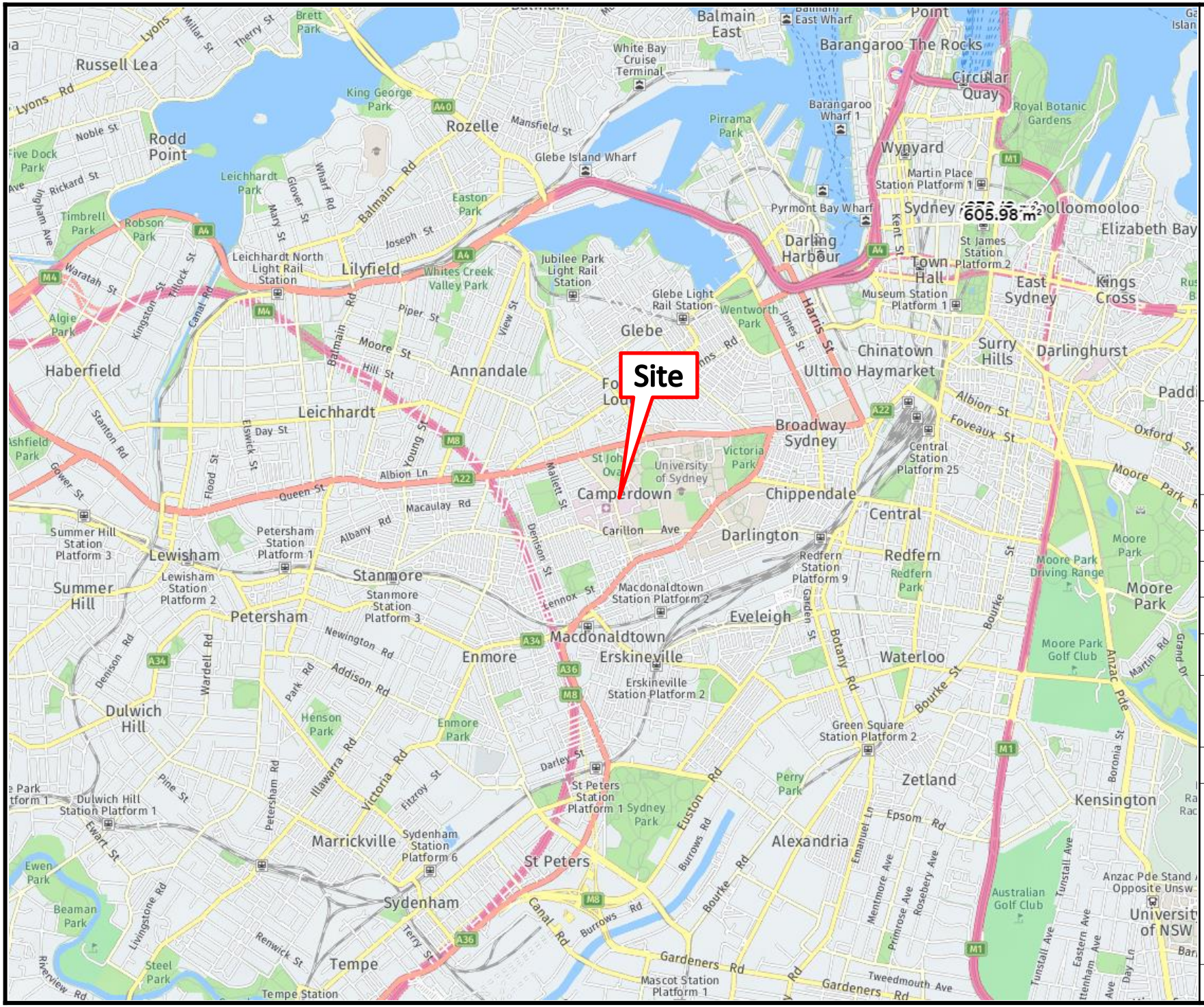
Sampling and chemical analysis of environmental media is based on appropriate guidance documents made and approved by the relevant regulatory authorities. Conclusions arising from the review and assessment of environmental data are based on the sampling and analysis considered appropriate based on the regulatory requirements.

Limited sampling and laboratory analyses were undertaken as part of the investigations undertaken, as described herein. Ground conditions between sampling locations and media may vary, and this should be considered when extrapolating between sampling points. Chemical analytes are based on the information detailed in the site history. Further chemicals or categories of chemicals may exist at the site, which were not identified in the site history and which may not be expected at the site.

Changes to the subsurface conditions may occur subsequent to the investigations described herein, through natural processes or through the intentional or accidental addition of contaminants. The conclusions and recommendations reached in this report are based on the information obtained at the time of the investigations.

This report does not provide a complete assessment of the environmental status of the site, and it is limited to the scope defined herein. Should information become available regarding conditions at the site including previously unknown sources of contamination, JBS&G reserves the right to review the report in the context of the additional information.

Figures



Legend:

JBS&G

Job No: 63888

Client: CPB

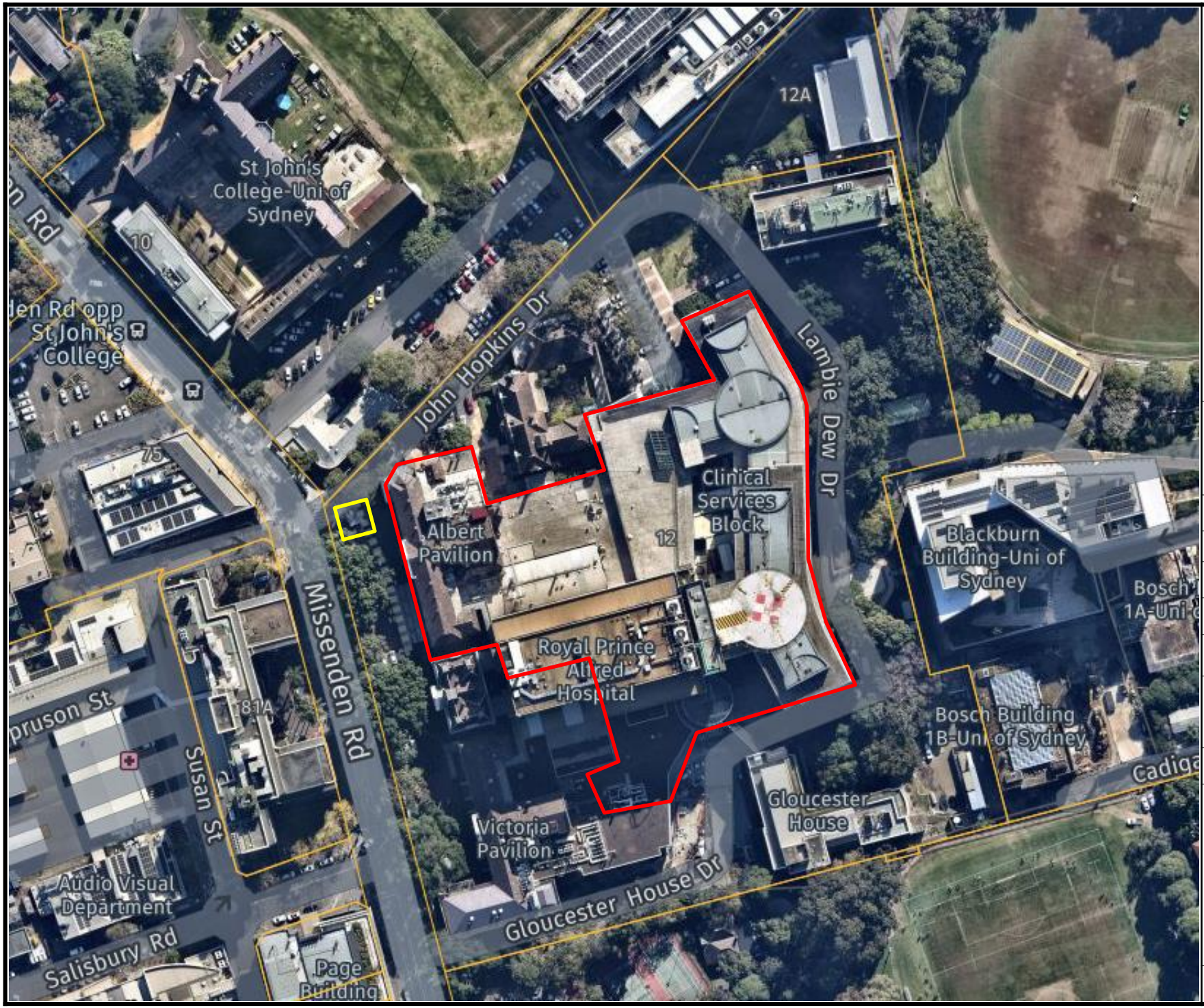
Version: R03	Date: 15/08/2023
Drawn By: JG	Checked By: SL

N

RPA Hospital Redevelopment
RPA Hospital,
Missenden Road,
Camperdown NSW

SITE LOCATION

FIGURE 1



Legend:

- Gate House Building
- Main Hospital Building

JBS&G

Job No: 63888	
Client: CPB	
Version: R02	Date: 21/7/2023
Drawn By: JG	Checked By: MS

N

RPA Hospital Redevelopment
RPA Hospital,
Missenden Road,
Camperdown NSW

SITE LAYOUT

FIGURE 2

Appendix A Hazardous Materials Register

Hazardous Materials Register (Rev A)
RPA Hospital Redevelopment – Main Works
RPA Hospital, Missenden Road, Camperdown NSW
Main Hospital Building (B63, B64, B75, B77, B89)
Date of Production – 15th August 2023

JBS&G SAMPLE NO.	LOCATION	MATERIAL DESCRIPTION	PHOTO NUMBER	ACCESSIBLE AREA?	FRIABILITY	ANALYTICAL RESULT	MATERIAL CONDITION	APPROX. QUANTITY	ACTION REQUIRED	DATE OF LAST INSPECTION (INCL. COMPANY NAME AND INITIALS)	DATE OF CONTROL ACTION &/OR REMOVAL
Level 1											
Asbestos Containing Materials											
No Asbestos Containing Materials were identified at the time of inspection										14/6/23 – 29/6/23 JBS&G SL/JG/RS	
No Asbestos Detected											
L1-A01	Northeast undercroft area, fireproofing to ductwork	Cream vermiculite	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L1-A02	Northeast undercroft area, fireproofing to ductwork	Grey vermiculite	1	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L1-A03	Southeast undercroft area	Fibre cement pipe	2	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L1-A04	Fire pump room, pipework and pumps	Gasket	3	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L1-A05	Fire pump room, upper north wall	Millboard	4	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
Lead Based Paints											
L1-L03	Fire pump room, pumps	Red/blue paint	5	Yes	-	**6.6% w/w**	Poor	10 m^2	Remove loose and flaking paint prior to refurbishment by an experienced hazardous materials removal contractor in accordance with AS4361.2-2017. Remaining paint well adhered to the building materials may be demolished if care is taken not to spread paint flakes to surrounding areas.	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
Non-Lead Based Paints											
L1-L01	North undercroft area, hydrant pipework	Red paint	6	Yes	-	0.04% w/w	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	

JBS&G SAMPLE NO.	LOCATION	MATERIAL DESCRIPTION	PHOTO NUMBER	ACCESSIBLE AREA?	FRIABILITY	ANALYTICAL RESULT	MATERIAL CONDITION	APPROX. QUANTITY	ACTION REQUIRED	DATE OF LAST INSPECTION (INCL. COMPANY NAME AND INITIALS)	DATE OF CONTROL ACTION &/OR REMOVAL
Level 1											
L1-L02	North undercroft area, soil pipework	Red/brown paint	-	Yes	-	<0.01% w/w	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
Polychlorinated Biphenyls (PCBs)											
Detailed inspection of light fittings could not be undertaken due to active electricity supply. All light fittings should be assumed to contain PCBs.									Undertake detailed inspection following isolation of electricity supply, OR Handle in accordance with ANZECC 1997	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
Synthetic Mineral Fibres (SMF)											
-	Pipework, throughout	Insulation	-	Yes	Bonded	**Assumed SMF**	Good	>50 lin. m	Remove in accordance with NOHSC:2006 (1990)	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
-	Wall and ceiling penetrations, packing pillows	Insulation	-	Yes	Bonded	**Assumed SMF**	Good	10 m^2	Remove in accordance with NOHSC:2006 (1990)	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
-	Fire pump room, ductwork	Insulation	-	Yes	Bonded	**Assumed SMF**	Good	100 m^2	Remove in accordance with NOHSC:2006 (1990)	14/6/23 – 29/6/23 JBS&G SL/JG/RS	

JBS&G SAMPLE NO.	LOCATION	MATERIAL DESCRIPTION	PHOTO NUMBER	ACCESSIBLE AREA?	FRIABILITY	ANALYTICAL RESULT	MATERIAL CONDITION	APPROX. QUANTITY	ACTION REQUIRED	DATE OF LAST INSPECTION (INCL. COMPANY NAME AND INITIALS)	DATE OF CONTROL ACTION &/OR REMOVAL
Level 2											
Asbestos Containing Materials											
No Asbestos Containing Materials were identified at the time of inspection.											
No Asbestos Detected											
L2-A01	North lift foyer and corridor, floor	Blue vinyl sheeting	7	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L2-A02	Toilets, walls	Fibre cement sheeting	8	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L2-A03	Carpark and storerooms, pipework	Vermiculite insulation	9	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L2-A04	Internal carpark area, wall expansion joint	Grey mastic	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L2-A05	Fire control room, wall expansion joint	Mastic	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
EM-01	Adjacent carpark entry, wall expansion joint	Black mastic	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
EM-02	Carpark entry ramp, external wall expansion joint	Black mastic	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
EM-03	External precast concrete, wall expansion joint	Grey mastic	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
Lead Based Paints											
No lead based paints were identified at the time of inspection.											

JBS&G SAMPLE NO.	LOCATION	MATERIAL DESCRIPTION	PHOTO NUMBER	ACCESSIBLE AREA?	FRIABILITY	ANALYTICAL RESULT	MATERIAL CONDITION	APPROX. QUANTITY	ACTION REQUIRED	DATE OF LAST INSPECTION (INCL. COMPANY NAME AND INITIALS)	DATE OF CONTROL ACTION &/OR REMOVAL
Level 2											
Non-Lead Based Paints											
L2-L01	Fire control room, walls	Cream paint	10	Yes	-	< 0.01 % w/w	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
Polychlorinated Biphenyls (PCBs)											
Detailed inspection of light fittings could not be undertaken due to active electricity supply. All light fittings should be assumed to contain PCBs.									Undertake detailed inspection following isolation of electricity supply, OR Handle in accordance with ANZECC 1997	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
Synthetic Mineral Fibres (SMF)											
-	Pipework	Lagging/Insulation	-	Yes	Bonded	**Assumed SMF**	Good	>50 lin.m	Remove in accordance with NOHSC:2006 (1990)	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
-	Ceilings, suspended tiles	Ceiling tiles	11	Yes	Bonded	**Assumed SMF**	Good	250 m^2	Remove in accordance with NOHSC:2006 (1990)	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
-	Wall and ceiling penetrations, packing pillows	Insulation	-	Yes	Bonded	**Assumed SMF**	Good	10 m^2	Remove in accordance with NOHSC:2006 (1990)	14/6/23 – 29/6/23 JBS&G SL/JG/RS	

JBS&G SAMPLE NO.	LOCATION	MATERIAL DESCRIPTION	PHOTO NUMBER	ACCESSIBLE AREA?	FRIABILITY	ANALYTICAL RESULT	MATERIAL CONDITION	APPROX. QUANTITY	ACTION REQUIRED	DATE OF LAST INSPECTION (INCL. COMPANY NAME AND INITIALS)	DATE OF CONTROL ACTION &/OR REMOVAL
Level 3											
Asbestos Containing Materials											
No Asbestos Containing Materials were identified at the time of inspection.											
No Asbestos Detected											
L3-A01	B89, north foyer, toilets, walls	Fibre cement sheeting	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L3-A02	Atrium, wall panels	Fibre cement sheeting	12	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L3-A03	B89, ICU, cleaners and dirty utility rooms, floor	Light blue vinyl sheeting	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L3-A04	B89, ICU, cleaners and dirty utility room, walls	Cream vinyl sheeting	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L3-A05	B89, ICU Administration, kitchen, floor	White vinyl floor sheeting	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L3-A06	B89, ICU, corridors, storerooms and patient rooms, floor	Light grey vinyl sheeting	13	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L3-A07	B89, ICU, corridors, storerooms and patient rooms, floor	Mottled blue vinyl sheeting	13	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L3-A08	B89, ICU, toilets, cleaners and dirty utility rooms, walls	Fibre cement sheeting	14	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L3-A09	B89, ICU, staff stations and corridors, floor	Green vinyl sheeting	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L3-AD01	B89, ICU Administration, ceiling cavity	Settled dust	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	

JBS&G SAMPLE NO.	LOCATION	MATERIAL DESCRIPTION	PHOTO NUMBER	ACCESSIBLE AREA?	FRIABILITY	ANALYTICAL RESULT	MATERIAL CONDITION	APPROX. QUANTITY	ACTION REQUIRED	DATE OF LAST INSPECTION (INCL. COMPANY NAME AND INITIALS)	DATE OF CONTROL ACTION &/OR REMOVAL
Level 3											
L3-AD02	B89, NICU, ceiling cavity	Settled dust	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
Lead Containing Dust											
L3-AD01	B89, ICU Administration, ceiling cavity	Settled dust	-	Yes	-	130 mg/kg	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L3-AD02	B89, NICU, ceiling cavity	Settled dust	-	Yes	-	<5 mg/kg	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
Lead Based Paints											
No Lead Based Paints were identified at the time of inspection											
Polychlorinated Biphenyls (PCBs)											
Detailed inspection of light fittings could not be undertaken due to active electricity supply. All light fittings should be assumed to contain PCBs.									Undertake detailed inspection following isolation of electricity supply, OR Handle in accordance with ANZECC 1997	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
Synthetic Mineral Fibres (SMF)											
-	Kitchens and kitchenettes, instant hot water systems	Internal insulation	15	Yes	Bonded	**Assumed SMF**	Good	3 units	Remove in accordance with NOHSC:2006 (1990)	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
-	Ceilings, throughout	Ceiling tiles	16	Yes	Bonded	**Assumed SMF**	Good	>400 m^2	Remove in accordance with NOHSC:2006 (1990)	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
-	Wall and ceiling penetrations, packing pillows	Insulation	-	Yes	Bonded	**Assumed SMF**	Good	10 m^2	Remove in accordance with NOHSC:2006 (1990)	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
-	Pipework throughout	Lagging/Insulation	-	Yes	Bonded	**Assumed SMF**	Good	>100 lin.m.	Remove in accordance with NOHSC:2006 (1990)	14/6/23 – 29/6/23 JBS&G SL/JG/RS	

JBS&G SAMPLE NO.	LOCATION	MATERIAL DESCRIPTION	PHOTO NUMBER	ACCESSIBLE AREA?	FRIABILITY	ANALYTICAL RESULT	MATERIAL CONDITION	APPROX. QUANTITY	ACTION REQUIRED	DATE OF LAST INSPECTION (INCL. COMPANY NAME AND INITIALS)	DATE OF CONTROL ACTION &/OR REMOVAL
Level 3											
-	Ceiling cavities, fixed and flexible air conditioning ducting	Insulation	-	Yes	Bonded	**Assumed SMF**	Good	>100 m^2	Remove in accordance with NOHSC:2006 (1990)	14/6/23 – 29/6/23 JBS&G SL/JG/RS	

JBS&G SAMPLE NO.	LOCATION	MATERIAL DESCRIPTION	PHOTO NUMBER	ACCESSIBLE AREA?	FRIABILITY	ANALYTICAL RESULT	MATERIAL CONDITION	APPROX. QUANTITY	ACTION REQUIRED	DATE OF LAST INSPECTION (INCL. COMPANY NAME AND INITIALS)	DATE OF CONTROL ACTION &/OR REMOVAL
Level 4											
Asbestos Containing Materials											
L4-A02	B75, plant room, yellow AHU and ductwork, flange joints	Mastic	17/18	Yes	Non-Friable	**Chrysotile Asbestos**	Fair	<1m²	Remove prior to refurbishment by a Class A licensed removal contractor in accordance with SWNSW 2022a.	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L4-A03	B75, plant room, chilled water pipework	Gasket	19/20	Yes	Non-Friable	**Chrysotile Asbestos**	Fair	<1m²	Remove prior to refurbishment by a Class A licensed removal contractor in accordance with SWNSW 2022a.	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L4-A19	B75, plant room, fire doors, internal core	Millboard	21	Yes	Friable	**Chrysotile and Amosite Asbestos Detected**	Fair	2m²	Remove prior to refurbishment by a Class A licensed removal contractor in accordance with SWNSW 2022a.	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
As per L4-A19	B75, all fire doors, internal core	Millboard	-	Yes	Friable	**Assumed Asbestos**	Fair	Unknown	All fire doors throughout B75 assumed to contain asbestos. Remove prior to refurbishment by a Class A licensed removal contractor in accordance with SWNSW 2022a.	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
No Asbestos Detected											
L4-A01	B75, plant room, base of AHU	Mastic	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L4-A04	B75, lift foyer, upper wall infill panels	Fibre cement sheeting	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L4-A05	B89, main and service corridors, floor	Beige vinyl sheeting	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L4-A06	B89, main corridor, floor	Black vinyl sheeting	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L4-A07	B89, utility rooms, floor	Blue vinyl sheeting	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L4-A08	B89, utility rooms, walls	White vinyl sheeting	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L4-A09	B89, main corridor, utility room and staff toilets, walls	Fibre cement sheeting	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	

JBS&G SAMPLE NO.	LOCATION	MATERIAL DESCRIPTION	PHOTO NUMBER	ACCESSIBLE AREA?	FRIABILITY	ANALYTICAL RESULT	MATERIAL CONDITION	APPROX. QUANTITY	ACTION REQUIRED	DATE OF LAST INSPECTION (INCL. COMPANY NAME AND INITIALS)	DATE OF CONTROL ACTION &/OR REMOVAL
Level 4											
L4-A10	B89, service corridor, riser cabinet	Fibre cement sheeting	22	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L4-A11	B89, service corridor, south wall, expansion joint	Mastic	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L4-A12	B89, main plant room, columns, ceiling and ducting	Vermiculite insulation	23	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L4-A13	B89, main plant room, ducting and penetrations	Millboard insulation	24	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L4-A14	B89, south plant room, north wall	Fibre cement sheeting	26	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L4-A15	B89, north plant room, wall lining	Fibre cement sheeting	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L4-A16	B89, external façade, wall expansion joint	Cream mastic	27	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L4-A17	B89, external façade, wall expansion joint	Black mastic	27	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L4-A18	B89, Café, floor	Light grey vinyl sheeting	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L4-A20	B89, Digital, Health and Innovation, server room, floor	Blue vinyl sheeting	28	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L4-A21	B89, Radiology Offices, male/female toilets within changeroom, walls	Fibre cement sheeting	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L4-A22	B89, Radiology Offices, male/female toilets, floor	Blue vinyl sheeting	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	

JBS&G SAMPLE NO.	LOCATION	MATERIAL DESCRIPTION	PHOTO NUMBER	ACCESSIBLE AREA?	FRIABILITY	ANALYTICAL RESULT	MATERIAL CONDITION	APPROX. QUANTITY	ACTION REQUIRED	DATE OF LAST INSPECTION (INCL. COMPANY NAME AND INITIALS)	DATE OF CONTROL ACTION &/OR REMOVAL
Level 4											
L4-A23	B89, Radiology Offices, kitchen, floor	White vinyl sheeting	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L4-A24	B89, Anaesthetic offices, toilet walls	Fibre cement sheeting	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L4-A25	B63, storerooms, ceiling cavity, fireproofing to steel framework	Vermiculite insulation	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L4-A26	B63, floor throughout	Green vinyl sheeting	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L4-A27	B75, plant room, Air Flow Unit, pipework	Hessian	25	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L4-AD01	B75, plant room, air plenum, floor	Settled dust	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L4-AD02	B89, main corridor, ceiling cavity	Settled dust	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
Lead Containing Dust											
L4-LD01	B75, plant room, air plenum, floor	Settled dust	-	Yes	-	510 mg/kg	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L4-LD02	B89, main corridor, ceiling cavity	Settled dust	-	Yes	-	100 mg/kg	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
Lead Based Paints											
L4-L03	B75, plant room, steam humidifier	Green paint	29	Yes	-	**2.9% w/w**	Fair	30 m^2	Remove loose and flaking paint prior to refurbishment by an experienced hazardous materials removal contractor in accordance with AS4361.2-2017. Remaining paint well adhered to the building materials may be demolished if care is taken not to spread paint flakes to surrounding areas.	14/6/23 – 29/6/23 JBS&G SL/JG/RS	

JBS&G SAMPLE NO.	LOCATION	MATERIAL DESCRIPTION	PHOTO NUMBER	ACCESSIBLE AREA?	FRIABILITY	ANALYTICAL RESULT	MATERIAL CONDITION	APPROX. QUANTITY	ACTION REQUIRED	DATE OF LAST INSPECTION (INCL. COMPANY NAME AND INITIALS)	DATE OF CONTROL ACTION &/OR REMOVAL
Level 4											
L4-L08	B63, storerooms, metal pillars/door frames	Green paint	30	Yes	-	**0.32% w/w**	Fair	100 m^2	Remove loose and flaking paint prior to refurbishment by an experienced hazardous materials removal contractor in accordance with AS4361.2-2017. Remaining paint well adhered to the building materials may be demolished if care is taken not to spread paint flakes to surrounding areas.	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L4-L09	B63, storerooms, concrete ceiling (within ceiling cavity	White paint	31	Yes	-	**3.8% w/w**	Poor	200 m^2	Remove loose and flaking paint prior to refurbishment by an experienced hazardous materials removal contractor in accordance with AS4361.2-2017. Remaining paint well adhered to the building materials may be demolished if care is taken not to spread paint flakes to surrounding areas.	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
Non-Lead Based Paints											
L4-L01	B75, plant room, cable trays	Orange paint	-	Yes	-	0.02 % w/w	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L4-L02	B75, plant room, AHU	Yellow paint	-	Yes	-	<0.01 % w/w	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L4-L04	B89, main plant room, hydrant and sprinkler pipework	Red paint	-	Yes	-	0.03 % w/w	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L4-L05	B89, main plant room, electrical cabinets	Orange paint	-	Yes	-	<0.01 % w/w	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L4-L06	B63, storerooms, cement rendered walls	Cream paint	-	Yes	-	0.09 % w/w	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L4-L07	B63, storerooms, timber windows	White paint	-	Yes	-	0.06 % w/w	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	

JBS&G SAMPLE NO.	LOCATION	MATERIAL DESCRIPTION	PHOTO NUMBER	ACCESSIBLE AREA?	FRIABILITY	ANALYTICAL RESULT	MATERIAL CONDITION	APPROX. QUANTITY	ACTION REQUIRED	DATE OF LAST INSPECTION (INCL. COMPANY NAME AND INITIALS)	DATE OF CONTROL ACTION &/OR REMOVAL
Level 4											
Polychlorinated Biphenyls (PCBs)											
Detailed inspection of light fittings could not be undertaken due to active electricity supply. All light fittings should be assumed to contain PCBs.									Undertake detailed inspection following isolation of electricity supply, OR Handle in accordance with ANZECC 1997	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
Synthetic Mineral Fibres (SMF)											
-	Kitchens and kitchenettes, instant hot water systems	Internal insulation	32	Yes	Bonded	**Assumed SMF**	Good	4 units	Remove in accordance with NOHSC:2006 (1990)	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
-	Ceilings, throughout	Ceiling tiles	33	Yes	Bonded	**Assumed SMF**	Good	>500 m^2	Remove in accordance with NOHSC:2006 (1990)	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
-	Wall and ceiling penetrations, packing pillows	Insulation	-	Yes	Bonded	**Assumed SMF**	Good	10 m^2	Remove in accordance with NOHSC:2006 (1990)	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
-	Pipework throughout	Lagging/Insulation	-	Yes	Bonded	**Assumed SMF**	Good	>100 lin.m.	Remove in accordance with NOHSC:2006 (1990)	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
-	Ceiling cavities, fixed and flexible air conditioning ducting	Insulation	-	Yes	Bonded	**Assumed SMF**	Good	>200 m^2	Remove in accordance with NOHSC:2006 (1990)	14/6/23 – 29/6/23 JBS&G SL/JG/RS	

JBS&G SAMPLE NO.	LOCATION	MATERIAL DESCRIPTION	PHOTO NUMBER	ACCESSIBLE AREA?	FRIABILITY	ANALYTICAL RESULT	MATERIAL CONDITION	APPROX. QUANTITY	ACTION REQUIRED	DATE OF LAST INSPECTION (INCL. COMPANY NAME AND INITIALS)	DATE OF CONTROL ACTION &/OR REMOVAL
Level 5											
Asbestos Containing Materials											
L5-A13	B75, Radiology, main corridor adjacent reception, double fire doors, internal core	Millboard	34	Yes	Friable	**Chrysotile and Amosite Asbestos Detected**	Fair	6 m²	Remove prior to refurbishment by a Class A licensed removal contractor in accordance with SWNSW 2022a.	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
As per L5-A13	B75, all fire doors, internal core	Millboard	-	Yes	Friable	**Assumed Asbestos**	Fair	Unknown	All fire doors throughout B75 assumed to contain asbestos. Remove prior to refurbishment by a Class A licensed removal contractor in accordance with SWNSW 2022a.	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
No Asbestos Detected											
L5-A01	B89, main corridor, floor	Beige vinyl sheeting	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L5-A02	B89, main corridor, floor	Black vinyl sheeting	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L5-A03	B89, north bathrooms, walls	Fibre cement sheeting	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L5-A04	B89, north west corridor, floor	Black vinyl sheeting	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L5-A05	B75, adjacent lift foyer, toilets, walls	Fibre cement sheeting	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L5-A06	B89, Anti and Post Natal wards, utility rooms, store rooms and cleaners, walls	Cream vinyl sheeting	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L5-A07	B89, Anti and Post Natal wards, sink areas, staff rooms, kitchens, utility rooms and cleaners, floor	Light blue vinyl sheeting	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L5-A08	B89, Anti and Post Natal wards, floor throughout	Mottled blue vinyl sheeting	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	

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Level 5											
L5-A09	B89, Anti and Post Natal wards, toilets, bathrooms, cleaners and utility, walls	Fibre cement sheeting	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L5-A10	B89, electrical risers, floor penetrations	Millboard insulation	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L5-A11	B89, Anti and Post Natal wards, ceiling cavity, fireproofing to ductwork	Vermiculite insulation	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L5-A12	B89, unisex changeroom/toilet, wall linings	Fibre cement sheeting	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L5-A14	B75, Radiology, reception area, staff toilet, walls	Fibre cement sheeting	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L5-A15	B89, Radiology, booking desk reception area, floor	Green vinyl sheeting	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L5-A16	B89, Radiology, central portion, riser in corridor, wall expansion joint	Grey mastic	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L5-A17	B89, Radiology, waiting room, staff desk platform, floor	Red vinyl sheeting	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L5-A18	B89, Pathology, fire door	Black mastic	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L5-A19	B63, Children's Emergency Department, doffing ward, storeroom 1, wall lining	Fibre cement sheeting	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L5-A20	B63, Children's Emergency Department, children's play area corridor, wall lining	Fibre cement sheeting	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L5-A21	B63, Emergency Department, waiting area, plaster room and toilets, wall lining	Fibre cement sheeting	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	

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Level 5											
L5-A22	B63, Emergency Department, utility rooms, floor	Dark blue vinyl sheeting	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L5-A23	B63, Emergency Department, quarantine room/toilet, floor	Light grey vinyl sheeting	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L5-A24	B63, Emergency Department, main corridor, floor	Dark grey vinyl sheeting	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L5-A25	B75, Emergency Department, resuscitation area, floor	Dark grey speckle vinyl sheeting	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L5-AD01	B89, main corridor, ceiling cavity	Settled dust	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L5-AD02	B89, Anti and Post Natal wards, ceiling cavity	Settled dust	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
Lead Containing Dust											
L5-LD01	B89, main corridor, ceiling cavity	Settled dust	-	Yes	-	100 mg/kg	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L5-LD02	B89, Anti and Post Natal wards, ceiling cavity	Settled dust	-	Yes	-	40 mg/kg	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
Lead Based Paints											
L5-L01	B63, Emergency Department, fire hydrant and door/frames	Red paint	35	Yes	-	**0.49% w/w**	Good	100 m²	Remove loose and flaking paint prior to refurbishment by an experienced hazardous materials removal contractor in accordance with AS4361.2-2017. Remaining paint well adhered to the building materials may be demolished if care is taken not to spread paint flakes to surrounding areas.	14/6/23 – 29/6/23 JBS&G SL/JG/RS	

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Level 5											
L5-L03	B63, Emergency Department, ceiling cavity, riser cement rendered walls	Cream/olive paint	36	Yes	-	**3.5% w/w**	Poor	50 m^2	Remove loose and flaking paint prior to refurbishment by an experienced hazardous materials removal contractor in accordance with AS4361.2-2017. Remaining paint well adhered to the building materials may be demolished if care is taken not to spread paint flakes to surrounding areas.	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L5-L04	B63, fire stairs, cement rendered walls	Cream paint	37	Yes	-	**5.4% w/w**	Fair	100 m^2	Remove loose and flaking paint prior to refurbishment by an experienced hazardous materials removal contractor in accordance with AS4361.2-2017. Remaining paint well adhered to the building materials may be demolished if care is taken not to spread paint flakes to surrounding areas.	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L5-L05	B63, fire stairs, railings	Green paint with cream underlay	37	Yes	-	**7.5% w/w**	Fair	20 m^2	Remove loose and flaking paint prior to refurbishment by an experienced hazardous materials removal contractor in accordance with AS4361.2-2017. Remaining paint well adhered to the building materials may be demolished if care is taken not to spread paint flakes to surrounding areas.	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L5-L06	B63, Emergency Department, arches, staff rooms and main corridor	Dark blue paint	38	Yes	-	**3.0% w/w**	Fair	400 m^2	Remove loose and flaking paint prior to refurbishment by an experienced hazardous materials removal contractor in accordance with AS4361.2-2017. Remaining paint well adhered to the building materials may be demolished if care is taken not to spread paint flakes to surrounding areas.	14/6/23 – 29/6/23 JBS&G SL/JG/RS	

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Level 5											
L5-L07	B63, Emergency Department, window sill, frames and timber windows	White paint	39	Yes	-	**1.8% w/w**	Fair	100 m²	Remove loose and flaking paint prior to refurbishment by an experienced hazardous materials removal contractor in accordance with AS4361.2-2017. Remaining paint well adhered to the building materials may be demolished if care is taken not to spread paint flakes to surrounding areas.	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
Non-Lead Based Paints											
L5-L02	B63, Emergency Department, concrete columns and walls	Pink paint	-	Yes	-	0.08 % w/w	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
Polychlorinated Biphenyls (PCBs)											
Detailed inspection of light fittings could not be undertaken due to active electricity supply. All light fittings should be assumed to contain PCBs.									Undertake detailed inspection following isolation of electricity supply, OR Handle in accordance with ANZECC 1997	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
Synthetic Mineral Fibres (SMF)											
-	Kitchens and kitchenettes, instant hot water systems	Internal insulation	40	Yes	Bonded	**Assumed SMF**	Good	5 units	Remove in accordance with NOHSC:2006 (1990)	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
-	Ceilings, throughout	Ceiling tiles	41	Yes	Bonded	**Assumed SMF**	Good	>500 m²	Remove in accordance with NOHSC:2006 (1990)	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
-	Wall and ceiling penetrations, packing pillows	Insulation	-	Yes	Bonded	**Assumed SMF**	Good	10 m²	Remove in accordance with NOHSC:2006 (1990)	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
-	Pipework throughout	Lagging/Insulation	-	Yes	Bonded	**Assumed SMF**	Good	>200 lin.m.	Remove in accordance with NOHSC:2006 (1990)	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
-	Ceiling cavities, fixed and flexible air conditioning ducting	Insulation	42	Yes	Bonded	**Assumed SMF**	Good	>300 m²	Remove in accordance with NOHSC:2006 (1990)	14/6/23 – 29/6/23 JBS&G SL/JG/RS	

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Level 6											
Asbestos Containing Materials											
L6-A15	B63, Nuclear Medicine, small laboratory storage room, timber windows	Mastic	43	Yes	Non-Friable	**Chrysotile Asbestos Detected**	Fair	5 m^2	Remove prior to refurbishment by a Class A licensed removal contractor in accordance with SWNSW 2022a.	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
B64-L6-ROOF-ASB01 (SEG 2022b)	Between B63 & B64, flat roof, waterproofing membrane underlying non-ACM surface membrane	Bituminous membrane	46	Yes	Non-Friable	**Chrysotile Asbestos**	Fair	80 m^2	Remove prior to refurbishment by a Class A licensed removal contractor in accordance with SWNSW 2022a.	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
-	B63, storeroom adjacent Nuclear Medicine, pipework	Insulation lagging	44	Yes	Friable	**Assumed Asbestos**	Fair	15 lin.m (visible)	Assumed asbestos lagged pipework observed within a storeroom adjacent the Nuclear Medicine assessment area. There is the potential for additional asbestos lagged pipework to be concealed within the assessment areas located across B63. Remove prior to refurbishment by a Class A licensed removal contractor in accordance with SWNSW 2022a.	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
No Asbestos Detected											
L6-A01	B89, north toilets, walls	Fibre cement sheeting	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L6-A02	B89, Cardiac Catheter Laboratory, CCU, Cardiology Ward, Cardiothoracic/ Vascular Ward and Renal Ward, floor	Mottled blue vinyl sheeting	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L6-A03	B89, Cardiac Catheter Laboratory, CCU, Cardiology Ward, Cardiothoracic/ Vascular Ward and Renal Wards, sink areas, utility rooms, cleaners and kitchen, floor	Light blue vinyl sheeting	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	

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Level 6											
L6-A04	B89, Cardiac Catheter Laboratory, CCU, Cardiology Ward, Cardiothoracic/ Vascular Ward and Renal Ward, utility rooms, store room areas and cleaners, walls	Brown vinyl sheeting	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L6-A05	B89, Cardiac Catheter Laboratory, CCU, Cardiology Ward, Cardiothoracic/ Vascular Ward and Renal Ward, bathrooms, showers, toilets, cleaners and utility rooms, walls	Fibre cement sheeting	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L6-A06	B89, fire stairs	Wall expansion joint	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L6-A07	B63, mechanical plant room, external wall cladding	Fibre cement sheeting	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L6-A08	B63, roof guttering, debris	Fibre cement sheeting	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L6-A09	B89, flat roof, underlying surface pebble layer	Felt membrane	45	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L6-A10	B63, external timber windows	Putty	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L6-A11	Between B63 & B64, west roof, surface waterproofing membrane	Bituminous membrane	46	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L6-A12	B75, Cardiac Vascular Bay, staff toilets, walls	Fibre cement sheeting	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L6-A13	B63, Nuclear Medicine, kitchenette and laboratory floor	Grey vinyl sheeting	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	

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Level 6											
L6-A14	B63, plant room, wall cavity	Fibrous material	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L6-A16	B63, plant room, AHUs	Vermiculite insulation	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L6-AD01	B89, main corridor, ceiling cavity	Settled dust	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L6-AD02	B89, Cardiology Ward, Cardiothoracic/ Vascular Ward and Renal Ward, ceiling cavity	Settled dust	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L6-AD03	B75, Cardiac Vascular Day Stay, ceiling cavity	Settled dust	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
Lead Containing Dust											
L6-LD01	B89, main corridor, ceiling cavity	Settled dust	-	Yes	-	49 mg/kg	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L6-LD02	B89, Cardiology Ward, Cardiothoracic/ Vascular Ward and Renal Ward, ceiling cavity	Settled dust	-	Yes	-	56 mg/kg	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L6-LD03	B75, Cardiac Vascular Day Stay, ceiling cavity	Settled dust		Yes	-	29 mg/kg	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
Lead Based Paints											
L6-L02	B63, roof, external vent pipes	Orange paint	47	Yes	-	**3.3% w/w**	Poor	10 lin. m.	Remove loose and flaking paint prior to refurbishment by an experienced hazardous materials removal contractor in accordance with AS4361.2-2017. Remaining paint well adhered to the building materials may be demolished if care is taken not to spread paint flakes to surrounding areas.	14/6/23 – 29/6/23 JBS&G SL/JG/RS	

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Level 6											
L6-L04	B63, external timber windows	White paint	48	Yes	-	**5.3% w/w**	Poor	50 m²	Remove loose and flaking paint prior to refurbishment by an experienced hazardous materials removal contractor in accordance with AS4361.2-2017. Remaining paint well adhered to the building materials may be demolished if care is taken not to spread paint flakes to surrounding areas.	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L6-L05	B63, mechanical plant room, AHUs and ductwork	Blue paint	49	Yes	-	**0.11% w/w**	Fair	100 m²	Remove loose and flaking paint prior to refurbishment by an experienced hazardous materials removal contractor in accordance with AS4361.2-2017. Remaining paint well adhered to the building materials may be demolished if care is taken not to spread paint flakes to surrounding areas.	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L6-L06	B63, mechanical plant room, masonry walls	Green/cream paint	50	Yes	-	**1.1% w/w**	Fair	100 m²	Remove loose and flaking paint prior to refurbishment by an experienced hazardous materials removal contractor in accordance with AS4361.2-2017. Remaining paint well adhered to the building materials may be demolished if care is taken not to spread paint flakes to surrounding areas.	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L6-L07	B63, plant room, double brick walls	Cream paint	51	Yes	-	**2.0% w/w**	Fair	200 m²	Remove loose and flaking paint prior to refurbishment by an experienced hazardous materials removal contractor in accordance with AS4361.2-2017. Remaining paint well adhered to the building materials may be demolished if care is taken not to spread paint flakes to surrounding areas.	14/6/23 – 29/6/23 JBS&G SL/JG/RS	

JBS&G SAMPLE NO.	LOCATION	MATERIAL DESCRIPTION	PHOTO NUMBER	ACCESSIBLE AREA?	FRIABILITY	ANALYTICAL RESULT	MATERIAL CONDITION	APPROX. QUANTITY	ACTION REQUIRED	DATE OF LAST INSPECTION (INCL. COMPANY NAME AND INITIALS)	DATE OF CONTROL ACTION &/OR REMOVAL
Level 6											
L6-L08	B63, internal timber windows	White paint	52	Yes	-	**3.0% w/w**	Poor	50 m²	Remove loose and flaking paint prior to refurbishment by an experienced hazardous materials removal contractor in accordance with AS4361.2-2017. Remaining paint well adhered to the building materials may be demolished if care is taken not to spread paint flakes to surrounding areas.	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
Non-Lead Based Paints											
L6-L01	B89, hydrant and sprinkler pipework	Red paint	-	Yes	-	0.01 % w/w	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L6-L03	B63, roof, external vent grill to plant room	Brown paint	-	Yes	-	<0.01 % w/w	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
Polychlorinated Biphenyls (PCBs)											
Detailed inspection of light fittings could not be undertaken due to active electricity supply. All light fittings should be assumed to contain PCBs.									Undertake detailed inspection following isolation of electricity supply, OR Handle in accordance with ANZECC 1997	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
Synthetic Mineral Fibres (SMF)											
-	Kitchens and kitchenettes, instant hot water systems	Internal insulation	53	Yes	Bonded	**Assumed SMF**	Good	3 units	Remove in accordance with NOHSC:2006 (1990)	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
-	Ceilings, throughout	Ceiling tiles	54	Yes	Bonded	**Assumed SMF**	Good	>500 m²	Remove in accordance with NOHSC:2006 (1990)	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
-	Wall and ceiling penetrations, packing pillows	Insulation	-	Yes	Bonded	**Assumed SMF**	Good	10 m²	Remove in accordance with NOHSC:2006 (1990)	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
-	Pipework throughout	Lagging/Insulation	-	Yes	Bonded	**Assumed SMF**	Good	>200 lin.m.	Remove in accordance with NOHSC:2006 (1990)	14/6/23 – 29/6/23 JBS&G SL/JG/RS	

B63, interr

JBS&G SAMPLE NO.	LOCATION	MATERIAL DESCRIPTION	PHOTO NUMBER	ACCESSIBLE AREA?	FRIABILITY	ANALYTICAL RESULT	MATERIAL CONDITION	APPROX. QUANTITY	ACTION REQUIRED	DATE OF LAST INSPECTION (INCL. COMPANY NAME AND INITIALS)	DATE OF CONTROL ACTION &/OR REMOVAL
Level 6											
-	Ceiling cavities, fixed and flexible air conditioning ducting	Insulation	-	Yes	Bonded	**Assumed SMF**	Good	>300 m^2	Remove in accordance with NOHSC:2006 (1990)	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
-	Roof sarking	Insulation	-	Yes	Bonded	**Assumed SMF**	Good	400 m^2	Remove in accordance with NOHSC:2006 (1990)	14/6/23 – 29/6/23 JBS&G SL/JG/RS	

JBS&G SAMPLE NO.	LOCATION	MATERIAL DESCRIPTION	PHOTO NUMBER	ACCESSIBLE AREA?	FRIABILITY	ANALYTICAL RESULT	MATERIAL CONDITION	APPROX. QUANTITY	ACTION REQUIRED	DATE OF LAST INSPECTION (INCL. COMPANY NAME AND INITIALS)	DATE OF CONTROL ACTION &/OR REMOVAL
Level 7											
Asbestos Containing Materials											
No Asbestos Containing Materials were identified at the time of inspection.											
No Asbestos Detected											
L7-A01	B89, plant room, fireproofing to ductwork	Vermiculite insulation	55	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L7-A02	B89, plant room, fireproofing panels to ductwork and penetrations	Millboard insulation	56	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L7-A03	B89, plant room, sealant to ductwork flange joints	Mastic	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L7-A04	B89, plant room, expansion joints in concrete block walls	Mastic	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L7-A05	B89, plant room, fire doors, internal core	Internal insulation	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L7-A06	B89, flat roof, beneath surface pebble layer, waterproofing membrane	Felt membrane	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L7-A07	B89, glass staircase, floor	Cream vinyl sheeting with speckle	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L7-A08	B89, glass staircase, perimeter sealant	Mastic	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L7-A09	B63, Nuclear Medicine, floor throughout	Blue speckled vinyl sheeting	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L7-A10	B63, Nuclear Medicine, X-ray room, floor	Orange vinyl sheeting	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	

JBS&G SAMPLE NO.	LOCATION	MATERIAL DESCRIPTION	PHOTO NUMBER	ACCESSIBLE AREA?	FRIABILITY	ANALYTICAL RESULT	MATERIAL CONDITION	APPROX. QUANTITY	ACTION REQUIRED	DATE OF LAST INSPECTION (INCL. COMPANY NAME AND INITIALS)	DATE OF CONTROL ACTION &/OR REMOVAL
Level 7											
L7-A11	B63, Nuclear Medicine, lower splash walls	White vinyl sheeting	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L7-AD01	B89, plant room, floor	Settled dust	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
Lead Containing Dust											
L7-LD01	B89, plant room, floor	Settled dust	-	Yes	-	190 mg/kg	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
Lead Based Paints											
L7-L01	B89, plant room, electrical switchboard cabinets	Orange paint	57	Yes	-	**4.3% w/w**	Good	20 m^2	Remove loose and flaking paint prior to refurbishment by an experienced hazardous materials removal contractor in accordance with AS4361.2-2017. Remaining paint well adhered to the building materials may be demolished if care is taken not to spread paint flakes to surrounding areas.	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L7-L04	B89, plant room generators	Green paint	58	Yes	-	**0.15 w/w**	Fair	30 m^2	Remove loose and flaking paint prior to refurbishment by an experienced hazardous materials removal contractor in accordance with AS4361.2-2017. Remaining paint well adhered to the building materials may be demolished if care is taken not to spread paint flakes to surrounding areas.	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
Non-Lead Based Paints											
L7-L02	B89, plant room, high visibility trip hazard paint throughout	Yellow paint	-	Yes	-	<0.01 % w/w	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L7-L03	B89, sprinkler/hydrant pipework	Red paint	-	Yes	-	0.05 % w/w	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	

JBS&G SAMPLE NO.	LOCATION	MATERIAL DESCRIPTION	PHOTO NUMBER	ACCESSIBLE AREA?	FRIABILITY	ANALYTICAL RESULT	MATERIAL CONDITION	APPROX. QUANTITY	ACTION REQUIRED	DATE OF LAST INSPECTION (INCL. COMPANY NAME AND INITIALS)	DATE OF CONTROL ACTION &/OR REMOVAL
Level 7											
L7-L05	B89, fire stair handrails	Grey paint	-	Yes	-	<0.01 % w/w	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
L7-L06	B89, glass staircase, steel frame	Blue paint	-	Yes	-	0.03 % w/w	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
Polychlorinated Biphenyls (PCBs)											
Detailed inspection of light fittings could not be undertaken due to active electricity supply. All light fittings should be assumed to contain PCBs.									Undertake detailed inspection following isolation of electricity supply, OR Handle in accordance with ANZECC 1997	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
Synthetic Mineral Fibres (SMF)											
-	Kitchens and kitchenettes, instant hot water systems	Internal insulation	59	Yes	Bonded	**Assumed SMF**	Good	2 units	Remove in accordance with NOHSC:2006 (1990)	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
-	Ceilings, throughout	Ceiling tiles	-	Yes	Bonded	**Assumed SMF**	Good	>100 m^2	Remove in accordance with NOHSC:2006 (1990)	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
-	Wall and ceiling penetrations, packing pillows	Insulation	-	Yes	Bonded	**Assumed SMF**	Good	10 m^2	Remove in accordance with NOHSC:2006 (1990)	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
-	Pipework throughout	Lagging/Insulation	-	Yes	Bonded	**Assumed SMF**	Good	>100 lin.m.	Remove in accordance with NOHSC:2006 (1990)	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
-	Ceiling cavities, fixed and flexible air conditioning ducting	Insulation	-	Yes	Bonded	**Assumed SMF**	Good	>100 m^2	Remove in accordance with NOHSC:2006 (1990)	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
-	B89, plant room, roof and wall sarking	Insulation	60	Yes	Bonded	**Assumed SMF**	Good	400 m^2	Remove in accordance with NOHSC:2006 (1990)	14/6/23 – 29/6/23 JBS&G SL/JG/RS	

Hazardous Materials Register (Rev A)
RPA Hospital Redevelopment – Main Works
RPA Hospital, Missenden Road, Camperdown NSW
Gate House Building
Date of Production – 16th August 2023

JBS&G SAMPLE NO.	LOCATION	MATERIAL DESCRIPTION	PHOTO NUMBER	ACCESSIBLE AREA?	FRIABILITY	ANALYTICAL RESULT	MATERIAL CONDITION	APPROX. QUANTITY	ACTION REQUIRED	DATE OF LAST INSPECTION (INCL. COMPANY NAME AND INITIALS)	DATE OF CONTROL ACTION &/OR REMOVAL
Gate House											
Asbestos Containing Materials											
GH-A02	Eaves	Fibre cement sheeting		Yes	Non-Friable	**Chrysotile Asbestos**	Poor	20 m^2	Remove prior to demolition by a Class A licensed removal contractor in accordance with SWNSW 2022a.	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
GH-A04	Ceiling	Fibre cement sheeting		Yes	Non-Friable	**Chrysotile Asbestos**	Fair	30 m^2	Remove prior to demolition by a Class A licensed removal contractor in accordance with SWNSW 2022a.	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
No Asbestos Detected											
GH-A01	External, windows	Putty	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
GH-A03	Internal, floor	Blue vinyl floor tiles	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
Non-Lead Based Paints											
GH-L01	Timber windows/frames	White paint	-	Yes	-	<0.01 % w/w	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
GH-L02	Internal brick walls	White paint	-	Yes	-	0.09 % w/w	-	-	No further action required	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
Polychlorinated Biphenyls (PCBs)											
Detailed inspection of light fittings could not be undertaken due to active electricity supply. All light fittings should be assumed to contain PCBs.									Undertake detailed inspection following isolation of electricity supply, OR Handle in accordance with ANZECC 1997	14/6/23 – 29/6/23 JBS&G SL/JG/RS	
Synthetic Mineral Fibres (SMF)											
-	Kitchenette, instant hot water system	Internal insulation	-	Yes	Bonded	**Assumed SMF**	Good	1 unit	Remove in accordance with NOHSC:2006 (1990)	14/6/23 – 29/6/23 JBS&G SL/JG/RS	

Appendix B Photographs

Photo 1: Level 1 – Northeast undercroft, Non-asbestos containing vermiculite fireproofing to ductwork,

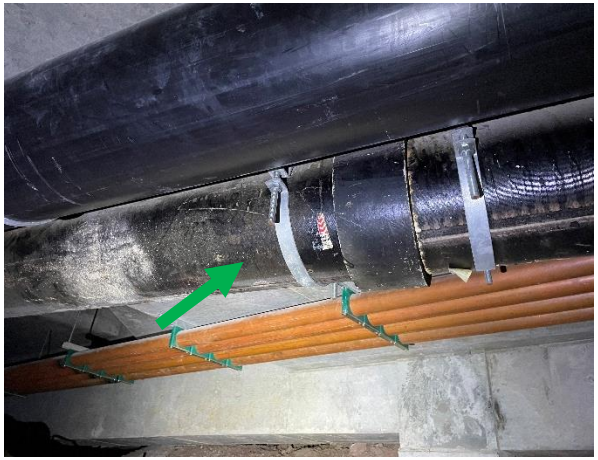

Photo 2: Level 1 – Southeast undercroft, Non asbestos containing fibre cement pipe

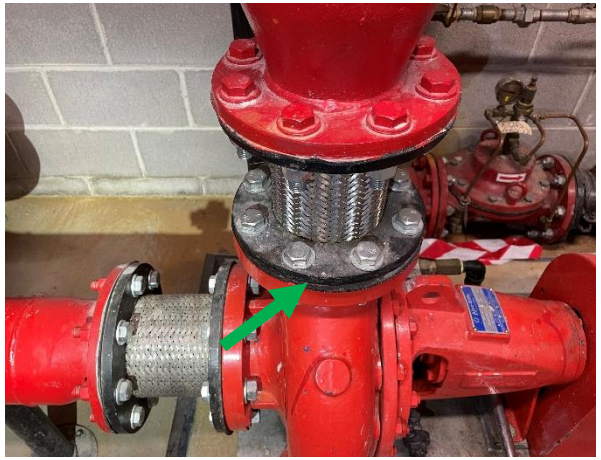

Photo 3: Level 1 – Fire pump room, Non asbestos containing gasket to pipework/pumps

Photo 4: Level 1 – Fire pump room, Non-asbestos containing millboard to the upper north wall

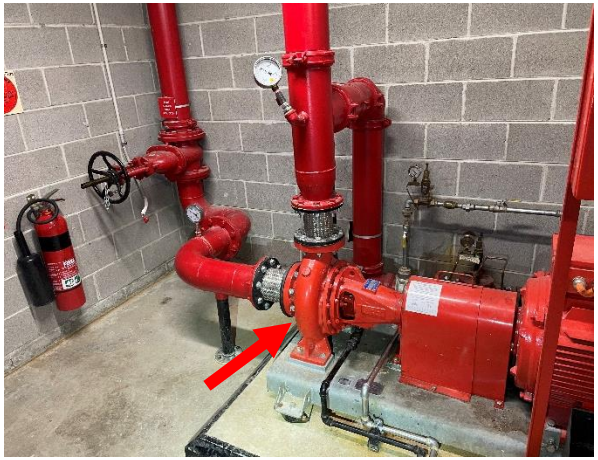

Photo 5: Level 1 – Fire pump room, Lead based red paint to pumps

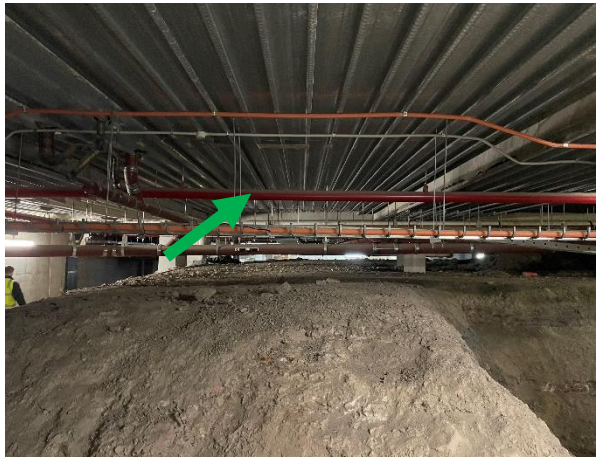

Photo 6: Level 1 – North undercroft, Non-lead based red paint to hydrant pipework

Source:

Rev	Description	Drn.	Date
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Appendix B: Photographs

Client: CPB Contractors

Project: RPA Hospital Redevelopment Main Works Hazmat

Job No: 63888 File Name: App B - Photo Log

Photo 7: Level 2 – North lift foyer and corridor, Non asbestos containing blue vinyl sheeting to floor

Photo 8: Level 2 – Toilets, Non asbestos containing fibre cement sheeting to walls

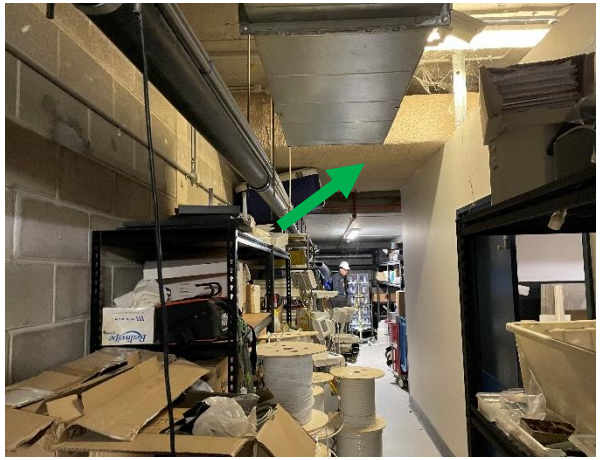

Photo 9: Level 2 – Carpark storerooms, Non asbestos containing vermiculite insulation to pipework and air con ducting

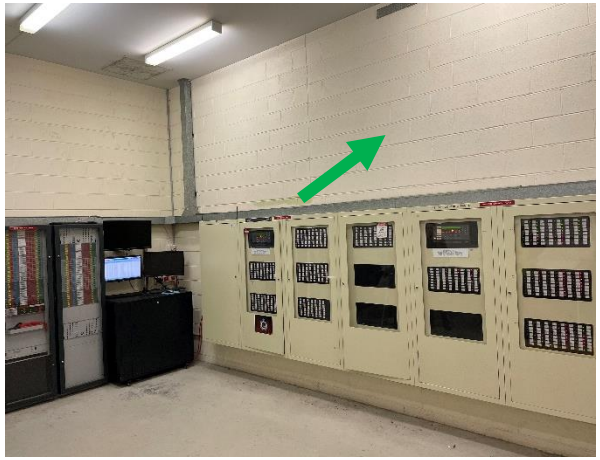

Photo 10: Level 2 – Fire control room, Non-lead based cream paint to walls

Photo 11: Level 2 – Assumed SMF insulation to the ceiling tiles throughout

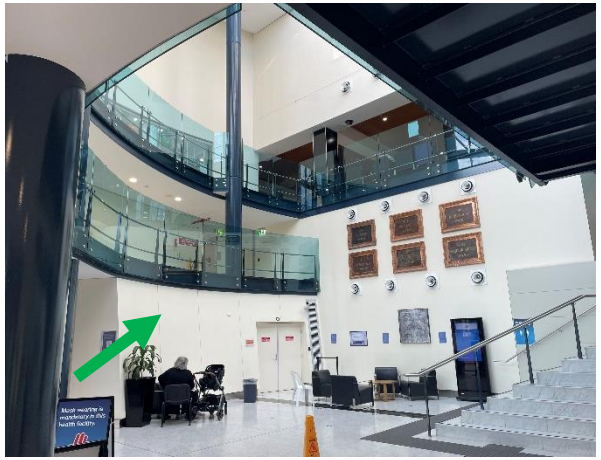

Photo 12: Level 3 – B89 Atrium, Non asbestos containing fibre cement sheeting to wall panels

Source:			
0	Original Issue -	JG	15/8/2023
Rev	Description	Drn.	Date

Appendix B: Photographs

Client: CPB Contractors

Project: RPA Hospital Redevelopment Main Works Hazmat

Job No: 63888 File Name: App B - Photo Log

Photo 13: Level 3 – B89, ICU, Non asbestos containing light grey and mottled blue vinyl sheeting to floor

Photo 14: Level 3 – B89, ICU toilets, Non asbestos containing fibre cement sheeting to walls

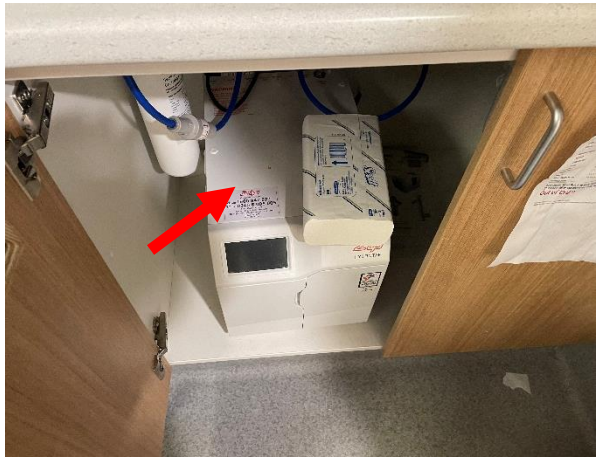

Photo 15: Level 3 – B89, ICU kitchen, Internal SMF insulation to Zip hydrotap

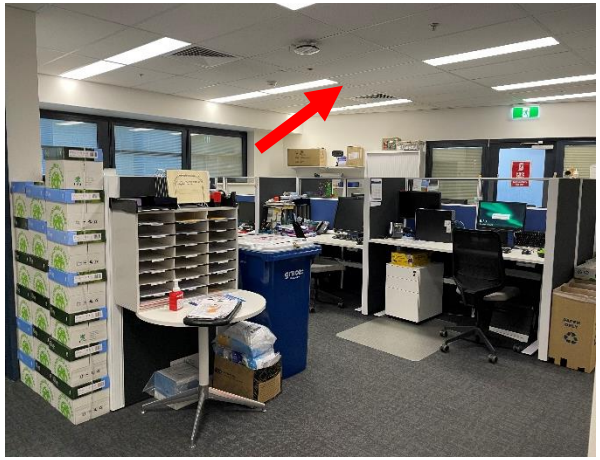

Photo 16: Level 3 – B89, ICU Admin, Assumed SMF insulation to ceiling tiles

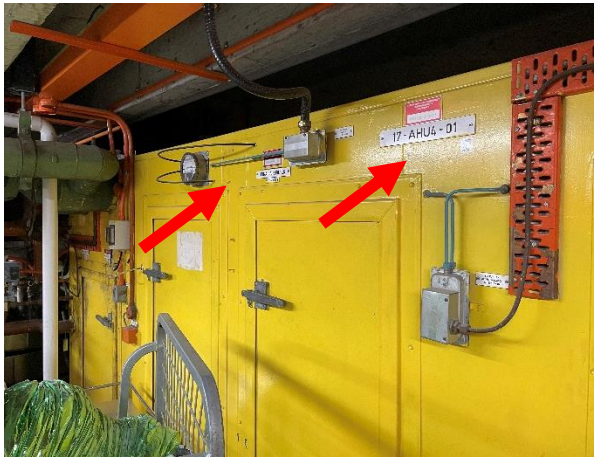

Photo 17: Level 4 – B75 plant room, Asbestos containing mastic to yellow AHU

Photo 18: Level 4 – B75 plant room, Asbestos containing mastic to ductwork

Source:

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0	Original Issue -	JG	15/8/2023

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Appendix B: Photographs

Client: CPB Contractors

Project: RPA Hospital Redevelopment Main Works Hazmat

Job No: 63888 File Name: App B - Photo Log

Photo 19: Level 4 – B75 plant room, Asbestos containing gasket to chilled water pipework

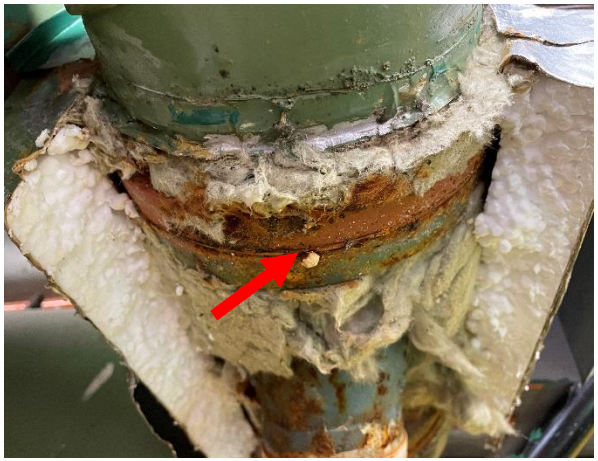

Photo 20: Level 4 – B75 plant room, Asbestos containing gasket to chilled water pipework

Photo 21: Level 4 – B75 plant room, Asbestos containing millboard core to fire doors

Photo 22: Level 4 – B89 service corridor, Non asbestos containing fibre cement sheeting to riser cabinet

Photo 23: Level 4 – B89 main plant room, Non asbestos containing vermiculite insulation to columns, ceiling and ducting

Photo 24: Level 4 – B89 main plant room, Non asbestos containing millboard insulation

Source:			
0	Original Issue -	JG	15/8/2023
Rev	Description	Drn.	Date

JBS&G

Appendix B: Photographs

Client: CPB Contractors

Project: RPA Hospital Redevelopment Main Works Hazmat

Job No: 63888 File Name: App B - Photo Log

Photo 25: Level – B75 main plant room, Non asbestos containing hessian within air flow unit

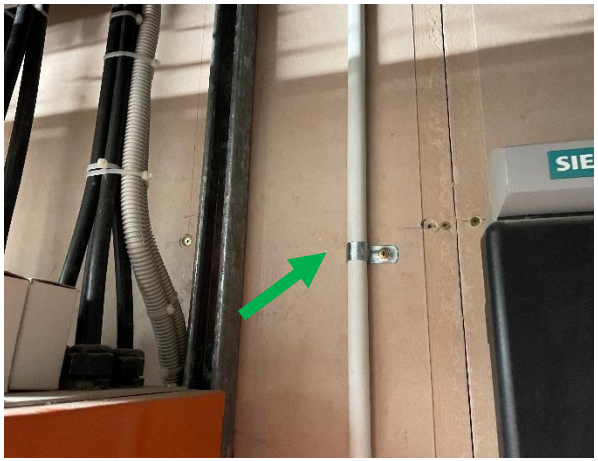

Photo 26: Level 4 – B89 south plant room, Non asbestos containing fibre cement sheeting to the north wall

Photo 27: Level 4 – Non asbestos containing cream and black mastic to the external façade panels

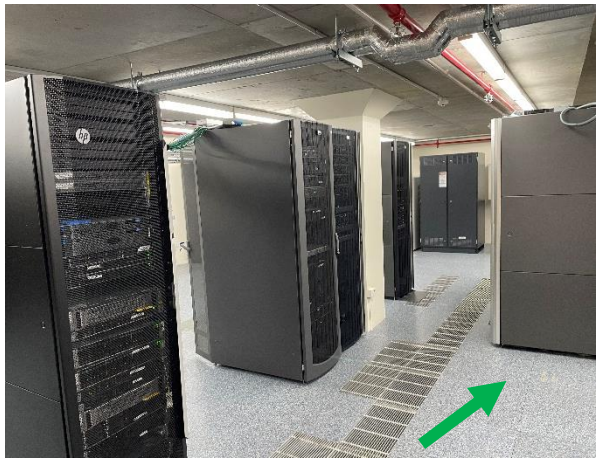

Photo 28: Level 4 – B89, Digital, Health and Innovation, Non asbestos containing blue vinyl floor to the server room

Photo 29: Level 4 – B75 plant room, Lead based green paint to the air plenum

Photo 30: Level 4 – B63, Lead based green paint to door frames and pillars

Source:

Rev	Description	Drn.	Date
0	Original Issue -	JG	15/8/2023

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Appendix B: Photographs

Client: CPB Contractors

Project: RPA Hospital Redevelopment Main Works Hazmat

Job No: 63888 File Name: App B - Photo Log

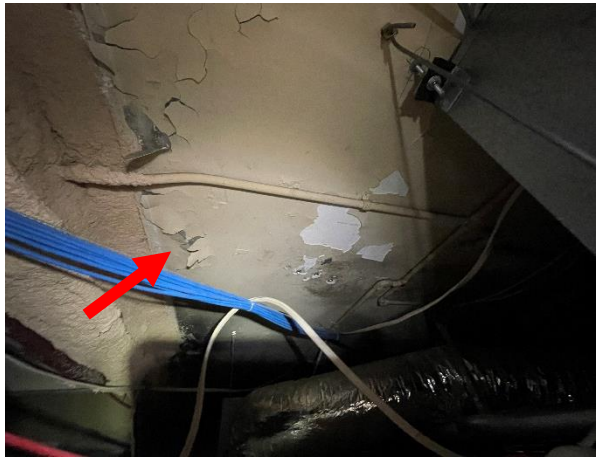

Photo 31: Level 4 – B63, storerooms, Lead based white paint to the concrete ceiling within ceiling cavity

Photo 32: Level 4 – Assumed SMF insulation to the hot water units throughout

Photo 33: Level 4 – Assumed SMF insulation to the ceiling tiles throughout

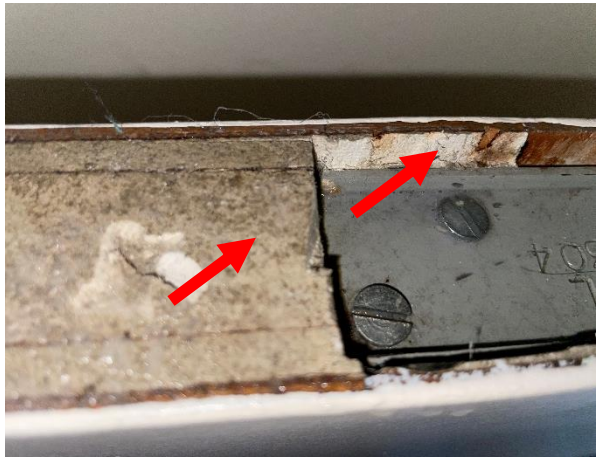

Photo 34: Level 5 – B75 Radiology, main corridor, Asbestos containing internal millboard to the double fire doors

Photo 35: Level 5 – B63 Emergency Department, Lead based red paint to hydrant and door/frames

Photo 36: Level 5 – B63 Emergency Department – Lead based cream/olive paint to the riser walls in ceiling cavity

Source:			
0	Original Issue -	JG	15/8/2023
Rev	Description	Drn.	Date

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Appendix B: Photographs

Client: CPB Contractors

Project: RPA Hospital Redevelopment Main Works Hazmat

Job No: 63888 File Name: App B - Photo Log

Photo 37: Level 5 – B63, Lead based cream and green paint to the cement rendered walls and the railings to stairwell

Photo 38: Level 5 – B63 Emergency Department, Lead based dark blue paint to the arches throughout the main corridor and staff rooms

Photo 39: Level 5 – B63 Emergency Department, Lead based white paint to the timber windows

Photo 40: Level 5 – Assumed SMF internal insulation to the hot water unit's throughout

Photo 41: Level 5 – Assumed SMF internal insulation to the ceiling tiles throughout

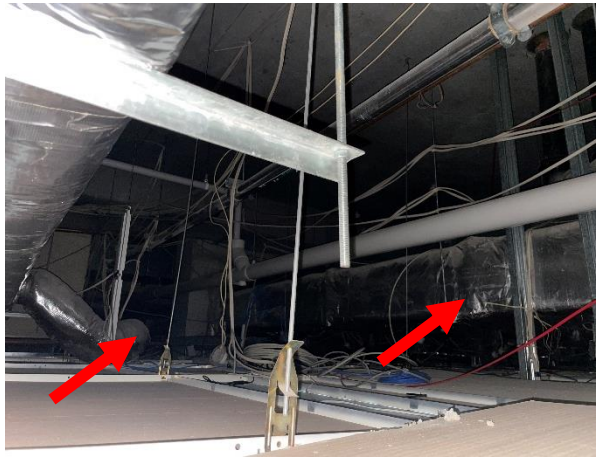

Photo 42: Level 5 – Assumed SMF insulation to the flexible air con ducting and pipework

Source:			
0	Original Issue -	JG	15/8/2023
Rev	Description	Drn.	Date

JBS&G

Appendix B: Photographs

Client: CPB Contractors

Project: RPA Hospital Redevelopment Main Works Hazmat

Job No: 63888 File Name: App B - Photo Log

Photo 43: Level 6 – B63 Nuclear Medicine, Asbestos containing mastic to the timber windows in the small laboratory store room

Photo 44: Level 6 – B63 store room adjacent Nuclear Medicine, Assumed asbestos containing lagged pipework

Photo 45: Level 6 – B89 Roof – Non-asbestos containing felt membrane beneath pebbles

Photo 46: Level 6 – B63/B64 West Roof – Asbestos containing bituminous waterproofing membrane underlying the surface non asbestos containing bituminous membrane

Photo 47: Level 6 – B63, Lead based orange paint to the external vent pipes

Photo 48: Level 6 – B63, Lead based white paint to the external timber windows

Source:			
0	Original Issue -	JG	15/8/2023
Rev	Description	Drn.	Date

Appendix B: Photographs

Client: CPB Contractors

Project: RPA Hospital Redevelopment Main Works Hazmat

Job No: 63888 File Name: App B - Photo Log

Photo 49: Level 6 – B63 Mechanical Plant Room, Lead based blue paint to the AHUs and ductwork

Photo 50: Level 6 – B63 Mechanical Plant Room, Lead based green/cream paint to the masonry walls

Photo 51: Level 6 – B63 Plant Room, Lead based cream paint to the double brick walls

Photo 52: Level 6 – B63 Nuclear Medicine, Lead based white paint to the internal timber windows

Photo 53: Level 6 – Assumed SMF internal insulation to the hot water units throughout

Photo 54: Level 6 – Assumed SMF internal insulation to the ceiling tiles throughout

Source:			
0	Original Issue -	JG	15/8/2023
Rev	Description	Drn.	Date

JBS&G

Appendix B: Photographs

Client: CPB Contractors

Project: RPA Hospital Redevelopment Main Works Hazmat

Job No: 63888 File Name: App B - Photo Log

Photo 55: Level 7 – Plant Room, Non asbestos containing vermiculite insulation

Photo 56: Level 7 – Plant Room, Non asbestos containing millboard insulation

Photo 57: Level 7 – Plant Room, Lead based orange paint to the electrical cabinets

Photo 58: Level 7 – Plant Room, – Lead based green paint to the generators

Photo 59: Level 7 – Assumed SMF internal insulation the hot water units throughout

Photo 60: Level 7 – Assumed SMF insulation sarking to the roof and walls

Source:			
0	Original Issue -	JG	15/8/2023
Rev	Description	Drn.	Date

JBS&G

Appendix B: Photographs

Client: CPB Contractors

Project: RPA Hospital Redevelopment Main Works Hazmat

Job No: 63888 File Name: App B - Photo Log

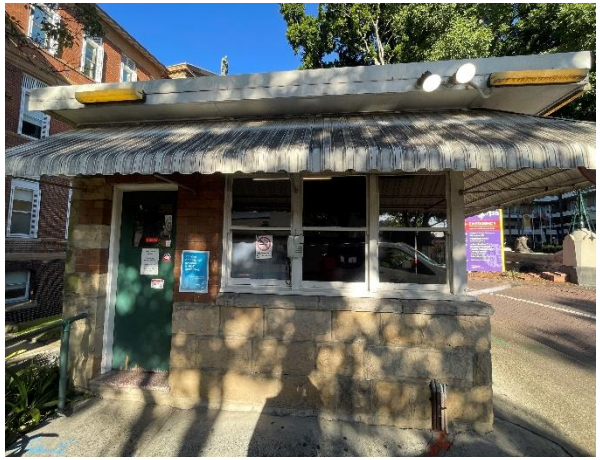

Photo 61: Gate House Overview

Photo 62: Gate House – Asbestos containing fibre cement sheeting to the eaves

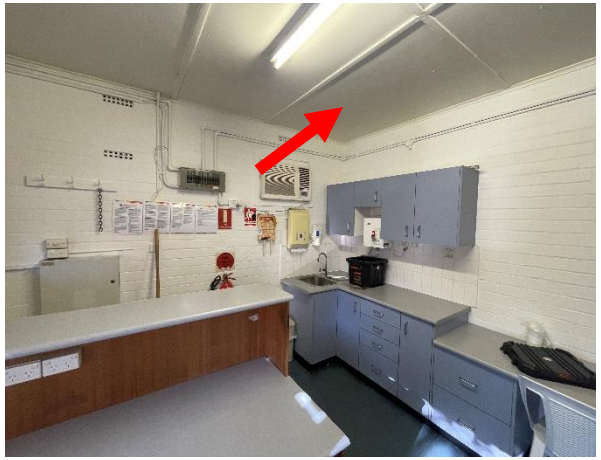

Photo 63: Gate House – Asbestos containing fibre cement sheeting to the ceiling

Source:			
0	Original Issue -	JG	15/8/2023
Rev	Description	Drn.	Date

Appendix B: Photographs

Client: CPB Contractors

Project: RPA Hospital Redevelopment Main Works Hazmat

Job No: 63888 File Name: App B - Photo Log

Appendix C Laboratory Analysis Reports and Chain of Custody Documentation

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: **63888**
PROJECT NAME: **RPA HOSPITAL – MAIN BUILDING**
DATE NEEDED BY: **STANDARD TAT**
PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) slumsden@jbsg.com.au; (3) jgomez@jbsg.com.au;

LABORATORY BATCH NO.:
SAMPLERS: **Stuart Lumsden/Jordan Gomez**
QC LEVEL: NEPM (2013)

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	Ph	ASBESTOS	LEAD	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
L1-A01	Material	28/6/23		1 x bag		X				
L1-A02	Material	28/6/23		1 x bag		X				
L1-A03	Material	28/6/23		1 x bag		X				
L1-A04	Material	28/6/23		1 x bag		X				
L1-A05	Material	28/6/23		1 x bag		X				
L1-L01	Paint	28/6/23		1 x bag			X			
L1-L02	Paint	28/6/23		1 x bag			X			
L1-L03	Paint	28/6/23		1 x bag			X			
L2-A01	Material	28/6/23		1 x bag		X				
L2-A02	Material	28/6/23		1 x bag		X				
L2-A03	Material	28/6/23		1 x bag		X				
L2-A04	Material	28/6/23		1 x bag		X				
L2-A05	Material	28/6/23		1 x bag		X				
L2-L01	Paint	28/6/23		1 x bag			X			
L3-A01	Material	28/6/23		1 x bag		X				
L3-A02	Material	28/6/23		1 x bag		X				
L3-A03	Material	28/6/23		1 x bag		X				
L3-A04	Material	28/6/23		1 x bag		X				
L3-A05	Material	28/6/23		1 x bag		X				

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Stuart Lumsden DATE: 29/6/23 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: DATE: 29/6 OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP NA deg C
NAME: DATE: OF:	CONSIGNMENT NOTE NO. TRANSPORT CO	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

#1003655

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: **63888**	LABORATORY BATCH NO.:
PROJECT NAME: **RPA HOSPITAL – MAIN BUILDING**	SAMPLERS: **Stuart Lumsden/Jordan Gomez**
DATE NEEDED BY: **STANDARD TAT**	QC LEVEL: NEPM (2013)
PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688	
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) slumsden@jbsg.com.au; (3) jgomez@jbsg.com.au;	

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	Ph	ASBESTOS	LEAD	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
L3-A06	Material	28/6/23		1 x bag		X				
L3-A07	Material	28/6/23		1 x bag		X				
L3-A08	Material	28/6/23		1 x bag		X				
L3-A09	Material	28/6/23		1 x bag		X				
L3-AD01	Dust	28/6/23		1 x bag		X				
L3-AD02	Dust	28/6/23		1 x bag		X				
L3-LD01	Dust	28/6/23		1 x bag			X			
L3-LD02	Dust	28/6/23		1 x bag			X			
L4-A01	Material	28/6/23		1 x bag		X				
L4-A02	Material	28/6/23		1 x bag		X				
L4-A03	Material	28/6/23		1 x bag		X				
L4-A04	Material	28/6/23		1 x bag		X				
L4-A05	Material	28/6/23		1 x bag		X				
L4-A06	Material	28/6/23		1 x bag		X				
L4-A07	Material	28/6/23		1 x bag		X				
L4-A08	Material	28/6/23		1 x bag		X				
L4-A09	Material	28/6/23		1 x bag		X				
L4-A10	Material	28/6/23		1 x bag		X				
L4-A11	Material	28/6/23		1 x bag		X				

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Stuart Lumsden DATE: 29/6/23 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C
NAME: DATE: OF:	CONSIGNMENT NOTE NO. TRANSPORT CO	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: **63888**	LABORATORY BATCH NO.:
PROJECT NAME: **RPA HOSPITAL – MAIN BUILDING**	SAMPLERS: **Stuart Lumsden/Jordan Gomez**
DATE NEEDED BY: **STANDARD TAT**	QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) slumsden@jbsg.com.au; (3) jgomez@jbsg.com.au;

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	Ph	ASBESTOS	LEAD	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
L4-A12	Material	28/6/23		1 x bag		X				
L4-A13	Material	28/6/23		1 x bag		X				
L4-A14	Material	28/6/23		1 x bag		X				
L4-A15	Material	28/6/23		1 x bag		X				
L4-A16	Material	28/6/23		1 x bag		X				
L4-A17	Material	28/6/23		1 x bag		X				
L4-A18	Material	28/6/23		1 x bag		X				
L4-A19	Material	28/6/23		1 x bag		X				
L4-A20	Material	28/6/23		1 x bag		X				
L4-A21	Material	28/6/23		1 x bag		X				
L4-A22	Material	28/6/23		1 x bag		X				
L4-A23	Material	28/6/23		1 x bag		X				
L4-A24	Material	28/6/23		1 x bag		X				
L4-A25	Material	28/6/23		1 x bag		X				
L4-A26	Material	28/6/23		1 x bag		X				
L4-AD01	Dust	28/6/23		1 x bag		X				
L4-AD02	Dust	28/6/23		1 x bag		X				
L4-LD01	Dust	28/6/23		1 x bag			X			
L4-LD02	Dust	28/6/23		1 x bag			X			

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Stuart Lumsden DATE: 29/6/23 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C
NAME: DATE: OF:	CONSIGNMENT NOTE NO. TRANSPORT CO	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: **63888**	LABORATORY BATCH NO.:
PROJECT NAME: **RPA HOSPITAL – MAIN BUILDING**	SAMPLERS: **Stuart Lumsden/Jordan Gomez**
DATE NEEDED BY: **STANDARD TAT**	QC LEVEL: NEPM (2013)
PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688	
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) slumsden@jbsg.com.au; (3) jgomez@jbsg.com.au;	

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	Ph	ASBESTOS	LEAD	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
L4-L01	Paint	28/6/23		1 x bag			X			
L4-L02	Paint	28/6/23		1 x bag			X			
L4-L03	Paint	28/6/23		1 x bag			X			
L4-L04	Paint	28/6/23		1 x bag			X			
L4-L05	Paint	28/6/23		1 x bag			X			
L4-L06	Paint	28/6/23		1 x bag			X			
L4-L07	Paint	28/6/23		1 x bag			X			
L4-L08	Paint	28/6/23		1 x bag			X			
L4-L09	Paint	28/6/23		1 x bag			X			
L5-A01	Material	28/6/23		1 x bag		X				
L5-A02	Material	28/6/23		1 x bag		X				
L5-A03	Material	28/6/23		1 x bag		X				
L5-A04	Material	28/6/23		1 x bag		X				
L5-A05	Material	28/6/23		1 x bag		X				
L5-A06	Material	28/6/23		1 x bag		X				
L5-A07	Material	28/6/23		1 x bag		X				
L5-A08	Material	28/6/23		1 x bag		X				
L5-A09	Material	28/6/23		1 x bag		X				
L5-A10	Material	28/6/23		1 x bag		X				

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Stuart Lumsden DATE: 29/6/23 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C
NAME: DATE: OF:	CONSIGNMENT NOTE NO. TRANSPORT CO	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C

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CHAIN OF CUSTODY

JBS&G

PROJECT NO.: **63888**	LABORATORY BATCH NO.:
PROJECT NAME: **RPA HOSPITAL – MAIN BUILDING**	SAMPLERS: **Stuart Lumsden/Jordan Gomez**
DATE NEEDED BY: **STANDARD TAT**	QC LEVEL: NEPM (2013)
PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688	
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) slumsden@jbsg.com.au; (3) jgomez@jbsg.com.au;	

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	Ph	ASBESTOS	LEAD	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
L5-A11	Material	28/6/23		1 x bag		X				
L5-AD01	Dust	28/6/23		1 x bag		X				
L5-AD02	Dust	28/6/23		1 x bag		X				
L5-LD01	Dust	28/6/23		1 x bag			X			
L5-LD02	Dust	28/6/23		1 x bag			X			
L6-A01	Material	28/6/23		1 x bag		X				
L6-A02	Material	28/6/23		1 x bag		X				
L6-A03	Material	28/6/23		1 x bag		X				
L6-A04	Material	28/6/23		1 x bag		X				
L6-A05	Material	28/6/23		1 x bag		X				
L6-A06	Material	28/6/23		1 x bag		X				
L6-A07	Material	28/6/23		1 x bag		X				
L6-A08	Material	28/6/23		1 x bag		X				
L6-A09	Material	28/6/23		1 x bag		X				
L6-A10	Material	28/6/23		1 x bag		X				
L6-A11	Material	28/6/23		1 x bag		X				
L6-AD01	Dust	28/6/23		1 x bag		X				
L6-AD02	Dust	28/6/23		1 x bag		X				
L6-LD01	Dust	28/6/23		1 x bag			X			

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Stuart Lumsden DATE: 29/6/23 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C
NAME: DATE: OF:	CONSIGNMENT NOTE NO. TRANSPORT CO	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

CHAIN OF CUSTODY

PROJECT NO.: **63888**	LABORATORY BATCH NO.:
PROJECT NAME: **RPA HOSPITAL – MAIN BUILDING**	SAMPLERS: **Stuart Lumsden/Jordan Gomez**
DATE NEEDED BY: **STANDARD TAT**	QC LEVEL: NEPM (2013)
PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688	
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) slumsden@jbsg.com.au; (3) jgomez@jbsg.com.au;	

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	Ph	ASBESTOS	LEAD	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
L6-LD02	Dust	28/6/23		1 x bag			X			
L6-L01	Paint	28/6/23		1 x bag			X			
L6-L02	Paint	28/6/23		1 x bag			X			
L6-L03	Paint	28/6/23		1 x bag			X			
L6-L04	Paint	28/6/23		1 x bag			X			
L6-L05	Paint	28/6/23		1 x bag			X			
L6-L06	Paint	28/6/23		1 x bag			X			
L7-A01	Material	28/6/23		1 x bag		X				
L7-A02	Material	28/6/23		1 x bag		X				
L7-A03	Material	28/6/23		1 x bag		X				
L7-A04	Material	28/6/23		1 x bag		X				
L7-A05	Material	28/6/23		1 x bag		X				
L7-A06	Material	28/6/23		1 x bag		X				
L7-A07	Material	28/6/23		1 x bag		X				
L7-A08	Material	28/6/23		1 x bag		X				
L7-AD01	Dust	28/6/23		1 x bag		X				
L7-LD01	Dust	28/6/23		1 x bag			X			
L7-L01	Paint	28/6/23		1 x bag			X			
L7-L02	Paint	28/6/23		1 x bag			X			

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Stuart Lumsden DATE: 29/6/23	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: OF:	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO		COOLER TEMP ..... deg C

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CHAIN OF CUSTODY

PROJECT NO.: **63888**	LABORATORY BATCH NO.:
PROJECT NAME: **RPA HOSPITAL – MAIN BUILDING**	SAMPLERS: **Stuart Lumsden/Jordan Gomez**
DATE NEEDED BY: **STANDARD TAT**	QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) slumsden@jbsg.com.au; (3) jgomez@jbsg.com.au;

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	Ph	ASBESTOS	LEAD	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
L7-L03	Paint	28/6/23		1 x bag			X			
L7-L04	Paint	28/6/23		1 x bag			X			
L7-L05	Paint	28/6/23		1 x bag			X			
L7-L06	Paint	28/6/23		1 x bag			X			

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Stuart Lumsden DATE: 29/6/23	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: OF:	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO		COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: **63888**	LABORATORY BATCH NO.:
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DATE NEEDED BY: **STANDARD TAT**	QC LEVEL: NEPM (2013)
PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688	
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) slumsden@jbsg.com.au; (3) jgomez@jbsg.com.au;	

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

Samples to be sent separately from Sydney Office

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	Ph	ASBESTOS	LEAD	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
L5-A12	Material	28/6/23		1 x bag		X				
L5-A13	Material	28/6/23		1 x bag		X				
L5-A14	Material	28/6/23		1 x bag		X				
L5-A15	Material	28/6/23		1 x bag		X				
L5-A16	Material	28/6/23		1 x bag		X				
L5-A17	Material	28/6/23		1 x bag		X				
L5-A18	Material	28/6/23		1 x bag		X				
L5-A19	Material	28/6/23		1 x bag		X				
L5-A20	Material	28/6/23		1 x bag		X				
L5-A21	Material	28/6/23		1 x bag		X				
L5-A22	Material	28/6/23		1 x bag		X				
L5-A23	Material	28/6/23		1 x bag		X				
L5-A24	Material	28/6/23		1 x bag		X				
L5-A25	Material	28/6/23		1 x bag		X				
L5-AD03	Dust	28/6/23		1 x bag		X				
L5-LD03	Dust	28/6/23		1 x bag			X			
L5-L02	Paint	28/6/23		1 x bag			X			
L5-L03	Paint	28/6/23		1 x bag			X			
L5-L04	Paint	28/6/23		1 x bag			X			

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Stuart Lumsden DATE: 29/6/23	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G SL	TRANSPORT CO.	DATE: OF:	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO		COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: **63888**	LABORATORY BATCH NO.:
PROJECT NAME: **RPA HOSPITAL – MAIN BUILDING**	SAMPLERS: **Stuart Lumsden/Jordan Gomez**
DATE NEEDED BY: **STANDARD TAT**	QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) slumsden@jbsg.com.au; (3) jgomez@jbsg.com.au;

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

Samples to be sent separately from Sydney office

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	Ph	ASBESTOS	LEAD	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
L5-L05	Paint	28/6/23		1 x bag			X			
L5-L06	Paint	28/6/23		1 x bag			X			
L5-L07	Paint	28/6/23		1 x bag			X			
L6-A12	Material	28/6/23		1 x bag		X				
L6-AD03	Dust	28/6/23		1 x bag		X				
L6-LD03	Dust	28/6/23		1 x bag			X			

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Stuart Lumsden DATE: 29/6/23 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C
NAME: DATE: OF:	CONSIGNMENT NOTE NO. TRANSPORT CO	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

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IANZ# 1290

Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Stuart Lumsden
Project name:	RPA HOSPITAL-MAIN BUILDING
Project ID:	63888
Turnaround time:	5 Day
Date/Time received	Jun 29, 2023 2:45 PM
Eurofins reference	1003655

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
N/A	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
✗	Split sample sent to requested external lab.
✗	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

L5-L01 Received as extra sample, not on COC. Placed on HOLD please confirm.

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Andrew Black on phone : (+61) 2 9900 8490 or by email: AndrewBlack@eurofins.com

Results will be delivered electronically via email to Stuart Lumsden - slumsden@jbsg.com.au.

Global Leader - Results you can trust

JBS & G Australia (NSW) P/L
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Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025–Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention:	Stuart Lumsden
Report	1003655-AID
Project Name	RPA HOSPITAL-MAIN BUILDING
Project ID	63888
Received Date	Jun 29, 2023
Date Reported	Jul 10, 2023

Methodology:

Asbestos Fibre Identification	Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques. *NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.*
Unknown Mineral Fibres	Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity. *NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.*
Subsampling Soil Samples	The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed. *NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.*
Bonded asbestos-containing material (ACM)	The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination.The resultant material is then further examined in accordance with AS 4964 - 2004. *NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.*
Limit of Reporting	The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w). The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk). *NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos".This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.*

Project Name RPA HOSPITAL-MAIN BUILDING
Project ID 63888
Date Sampled Jun 28, 2023
Report 1003655-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
L1-A01	23-Jn0069842	Jun 28, 2023	Approximate Sample 27g / 80x50x10mm Sample consisted of: Brown vermiculite fibre plaster material	No asbestos detected. Organic fibre detected. No trace asbestos detected.
L1-A02	23-Jn0069843	Jun 28, 2023	Approximate Sample 4g / 60x40x7mm Sample consisted of: Grey fibre plaster material	No asbestos detected. Organic fibre detected. No trace asbestos detected.
L1-A03	23-Jn0069844	Jun 28, 2023	Approximate Sample 1g / 20x10x2mm Sample consisted of: Grey layered fibre cement material	No asbestos detected. Organic fibre detected. No trace asbestos detected.
L1-A04	23-Jn0069845	Jun 28, 2023	Approximate Sample <1g / 40x7x5mm Sample consisted of: Black rubber sheet	No asbestos detected. Organic fibre detected. No trace asbestos detected.
L1-A05	23-Jn0069846	Jun 28, 2023	Approximate Sample 2g / 40x20x3mm Sample consisted of: Brown vermiculite fibre plaster material	No asbestos detected. Organic fibre detected. No trace asbestos detected.
L2-A01	23-Jn0069850	Jun 28, 2023	Approximate Sample 1g / 30x10x2mm Sample consisted of: Blue flexible vinyl tile, fibrous backing and amber glue	No asbestos detected. Organic fibre detected. No trace asbestos detected.
L2-A02	23-Jn0069851	Jun 28, 2023	Approximate Sample 3g / 30x15x3mm Sample consisted of: Grey fibre plaster material and off-white coating	No asbestos detected. Organic fibre detected. No trace asbestos detected.
L2-A03	23-Jn0069852	Jun 28, 2023	Approximate Sample 8g / 90x40x7mm Sample consisted of: Brown/ gold vermiculite plaster material	No asbestos detected. Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
L2-A04	23-Jn0069853	Jun 28, 2023	Approximate Sample 2g / 40x15x7mm Sample consisted of: Grey sealant material	No asbestos detected. No trace asbestos detected.
L2-A05	23-Jn0069854	Jun 28, 2023	Approximate Sample <1g / 15x7x5mm Sample consisted of: Grey sealant material	No asbestos detected. No trace asbestos detected.
L3-A01	23-Jn0069856	Jun 28, 2023	Approximate Sample 1g / 30x20x3mm Sample consisted of: Brown layered fibre cement material and off-white coating	No asbestos detected. Organic fibre detected. No trace asbestos detected.
L3-A02	23-Jn0069857	Jun 28, 2023	Approximate Sample <1g / 15x7x2mm Sample consisted of: Brown fibre plaster cement material and off-white coating	No asbestos detected. Organic fibre detected. No trace asbestos detected.
L3-A03	23-Jn0069858	Jun 28, 2023	Approximate Sample 3g / 40x15x2mm Sample consisted of: Blue flexible vinyl sheet and amber glue	No asbestos detected. Synthetic mineral fibre detected. No trace asbestos detected.
L3-A04	23-Jn0069859	Jun 28, 2023	Approximate Sample 2g / 20x10x2mm Sample consisted of: Cream/ off-white semi brittle vinyl sheet and amber glue	No asbestos detected. No trace asbestos detected.
L3-A05	23-Jn0069860	Jun 28, 2023	Approximate Sample 2g / 30x15x2mm Sample consisted of: Cream semi brittle vinyl sheet, amber glue and fibrous backing	No asbestos detected. Organic fibre detected. No trace asbestos detected.
L3-A06	23-Jn0069861	Jun 28, 2023	Approximate Sample 1g / 20x20x2mm Sample consisted of: Cream/ grey semi brittle linoleum material	No asbestos detected. Synthetic mineral fibre detected. No trace asbestos detected.
L3-A07	23-Jn0069862	Jun 28, 2023	Approximate Sample 3g / 50x20x2mm Sample consisted of: Blue semi flexible vinyl sheet and amber glue	No asbestos detected. No trace asbestos detected.
L3-A08	23-Jn0069863	Jun 28, 2023	Approximate Sample <1g / 10x10x2mm Sample consisted of: Brown fibre plaster cement material and white coating	No asbestos detected. Organic fibre detected. No trace asbestos detected.
L3-A09	23-Jn0069864	Jun 28, 2023	Approximate Sample 2g / 30x10x2mm Sample consisted of: Green flexible vinyl sheet and amber glue	No asbestos detected. No trace asbestos detected.
L3-AD01	23-Jn0069865	Jun 28, 2023	Approximate Sample <1g Sample consisted of: Dust particles, fragments paint flakes plastic, wood residue, soft fibrous material, metals and organic debris	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
L3-AD02	23-Jn0069866	Jun 28, 2023	Approximate Sample 5g / 50x40x5mm Sample consisted of: White fibre plaster material	No asbestos detected. Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
L4-A01	23-Jn0069869	Jun 28, 2023	Approximate Sample 1g / 20x5x2mm Sample consisted of: Grey sealant material	No asbestos detected. No trace asbestos detected.
L4-A02	23-Jn0069870	Jun 28, 2023	Approximate Sample 1g / 25x10x2mm Sample consisted of: Grey clayey mastic material	Chrysotile asbestos detected.
L4-A03	23-Jn0069871	Jun 28, 2023	Approximate Sample <1g / 5x2x2mm Sample consisted of: Grey gasket material	Chrysotile asbestos detected.
L4-A04	23-Jn0069872	Jun 28, 2023	Approximate Sample 2g / 30x12x5mm Sample consisted of: Grey layered fibre cement material and white coating	No asbestos detected. Organic fibre detected. No trace asbestos detected.
L4-A05	23-Jn0069873	Jun 28, 2023	Approximate Sample 3g / 50x7x2mm Sample consisted of: Yellow flexible vinyl sheet, white plaster and amber glue	No asbestos detected. No trace asbestos detected.
L4-A06	23-Jn0069874	Jun 28, 2023	Approximate Sample 3g / 40x20x2mm Sample consisted of: Black flexible vinyl sheet and amber glue	No asbestos detected. No trace asbestos detected.
L4-A07	23-Jn0069875	Jun 28, 2023	Approximate Sample 1g / 20x12x2mm Sample consisted of: Blue flexible vinyl sheet and amber glue	No asbestos detected. No trace asbestos detected.
L4-A08	23-Jn0069876	Jun 28, 2023	Approximate Sample 1g / 30x20x2mm Sample consisted of: Off-white semi brittle vinyl sheet, plaster and amber glue	No asbestos detected. No trace asbestos detected.
L4-A09	23-Jn0069877	Jun 28, 2023	Approximate Sample <1g / 10x10x2mm Sample consisted of: Brown fibre plaster material	No asbestos detected. Organic fibre detected. No trace asbestos detected.
L4-A10	23-Jn0069878	Jun 28, 2023	Approximate Sample <1g / 10x8x2mm Sample consisted of: Grey fibre plaster cement material	No asbestos detected. Organic fibre detected. No trace asbestos detected.
L4-A11	23-Jn0069879	Jun 28, 2023	Approximate Sample 6g / 60x12x10mm Sample consisted of: Yellow sealant material and foam like material attached	No asbestos detected. No trace asbestos detected.
L4-A12	23-Jn0069880	Jun 28, 2023	Approximate Sample 5g / 40x20x7mm Sample consisted of: Grey fibre plaster material	No asbestos detected. Organic fibre detected. No trace asbestos detected.
L4-A13	23-Jn0069881	Jun 28, 2023	Approximate Sample 4g / 30x20x7mm Sample consisted of: White/ gold vermiculite fibro plaster material	No asbestos detected. Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
L4-A14	23-Jn0069882	Jun 28, 2023	Approximate Sample <1g / 10x8x2mm Sample consisted of: Brown fibre plaster material and off-white coating	No asbestos detected. Organic fibre detected. No trace asbestos detected.
L4-A15	23-Jn0069883	Jun 28, 2023	Approximate Sample <1g / 12x10x3mm Sample consisted of: Brown fibre plaster material	No asbestos detected. Organic fibre detected. No trace asbestos detected.
L4-A16	23-Jn0069884	Jun 28, 2023	Approximate Sample 1g / 20x12x8mm Sample consisted of: Yellow sealant material	No asbestos detected. No trace asbestos detected.
L4-A17	23-Jn0069885	Jun 28, 2023	Approximate Sample 1g / 20x10x5mm Sample consisted of: Black sealant material	No asbestos detected. No trace asbestos detected.
L4-A18	23-Jn0069886	Jun 28, 2023	Approximate Sample 1g / 30x25x2mm Sample consisted of: Grey flexible vinyl sheet and amber glue	No asbestos detected. No trace asbestos detected.
L4-A19	23-Jn0069887	Jun 28, 2023	Approximate Sample <1g / 8x5x2mm Sample consisted of: White fibre plaster material	Chrysotile and amosite asbestos detected.
L4-A20	23-Jn0069888	Jun 28, 2023	Approximate Sample 2g / 40x25x2mm Sample consisted of: Blue/ brown flexible vinyl sheet and amber glue	No asbestos detected. No trace asbestos detected.
L4-A21	23-Jn0069889	Jun 28, 2023	Approximate Sample <1g / 12x10x5mm Sample consisted of: Grey fibre plaster cement material and white coating	No asbestos detected. Organic fibre detected. No trace asbestos detected.
L4-A22	23-Jn0069890	Jun 28, 2023	Approximate Sample 1g / 20x12x2mm Sample consisted of: Blue flexible linoleum and amber glue	No asbestos detected. Synthetic mineral fibre detected. No trace asbestos detected.
L4-A23	23-Jn0069891	Jun 28, 2023	Approximate Sample 1g / 20x10x2mm Sample consisted of: White flexible vinyl sheet, plaster and amber glue	No asbestos detected. No trace asbestos detected.
L4-A24	23-Jn0069892	Jun 28, 2023	Approximate Sample <1g / 8x7x2mm Sample consisted of: Brown fibre plaster cement material	No asbestos detected. Organic fibre detected. No trace asbestos detected.
L4-A25	23-Jn0069893	Jun 28, 2023	Approximate Sample 4g / 50x40x7mm Sample consisted of: Brown / gold vermiculite plaster material	No asbestos detected. Organic fibre detected. No trace asbestos detected.
L4-A26	23-Jn0069894	Jun 28, 2023	Approximate Sample 5g / 70x20x2mm Sample consisted of: Green flexible vinyl sheet , plaster and amber glue	No asbestos detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
L4-AD01	23-Jn0069895	Jun 28, 2023	Approximate Sample 14g Sample consisted of: Dust particles, fragments of soft fibrous material, plastic, plaster, paint flakes and sand	No asbestos detected at the reporting limit of 0.01% w/w. Synthetic mineral fibre detected. Organic fibre detected. No trace asbestos detected.
L4-AD02	23-Jn0069896	Jun 28, 2023	Approximate Sample <1g Sample consisted of: Dust particles, fragments of soft fibrous material and plaster in powder form	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
L5-A01	23-Jn0069908	Jun 28, 2023	Approximate Sample 2g / 40x10x2mm Sample consisted of: Yellow flexible vinyl sheet and amber glue	No asbestos detected. No trace asbestos detected.
L5-A02	23-Jn0069909	Jun 28, 2023	Approximate Sample 1g / 30x10x2mm Sample consisted of: Black flexible vinyl sheet and amber glue	No asbestos detected. No trace asbestos detected.
L5-A03	23-Jn0069910	Jun 28, 2023	Approximate Sample <1g / 12x8x2mm Sample consisted of: Brown fibre plaster material	No asbestos detected. Organic fibre detected. No trace asbestos detected.
L5-A04	23-Jn0069911	Jun 28, 2023	Approximate Sample 2g / 30x15x2mm Sample consisted of: Black flexible linoleum and amber glue	No asbestos detected. Synthetic mineral fibre detected. No trace asbestos detected.
L5-A05	23-Jn0069912	Jun 28, 2023	Approximate Sample 1g / 15x10x3mm Sample consisted of: Brown fibre plaster material	No asbestos detected. Organic fibre detected. No trace asbestos detected.
L5-A06	23-Jn0069913	Jun 28, 2023	Approximate Sample 1g / 30x20x2mm Sample consisted of: Off-white semi brittle vinyl sheet	No asbestos detected. No trace asbestos detected.
L5-A07	23-Jn0069914	Jun 28, 2023	Approximate Sample 1g / 35x12x2mm Sample consisted of: Blue flexible linoleum and amber glue	No asbestos detected. Synthetic mineral fibre detected. No trace asbestos detected.
L5-A08	23-Jn0069915	Jun 28, 2023	Approximate Sample 1g / 25x15x2mm Sample consisted of: Blue flexible vinyl sheet and amber glue	No asbestos detected. No trace asbestos detected.
L5-A09	23-Jn0069916	Jun 28, 2023	Approximate Sample 5g / 50x25x5mm Sample consisted of: Brown fibre plaster material and off-white coating	No asbestos detected. Organic fibre detected. No trace asbestos detected.
L5-A10	23-Jn0069917	Jun 28, 2023	Approximate Sample 3g / 50x40x7mm Sample consisted of: Gold/ white vermiculite fibro plaster material	No asbestos detected. Organic fibre detected. No trace asbestos detected.
L5-A11	23-Jn0069918	Jun 28, 2023	Approximate Sample 3g / 60x25x5mm Sample consisted of: Grey fibre plaster material	No asbestos detected. Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
L5-AD01	23-Jn0069919	Jun 28, 2023	Approximate Sample 1g Sample consisted of: Dust particles, fragments of soft fibrous material, plaster in powder form and fragments	No asbestos detected at the reporting limit of 0.01% w/w. Synthetic mineral fibre detected. Organic fibre detected. No trace asbestos detected.
L5-AD02	23-Jn0069920	Jun 28, 2023	Approximate Sample 2g Sample consisted of: Dust particles, fragments of soft fibrous material, fibre plaster material, paint flakes and plaster in powder form	No asbestos detected at the reporting limit of 0.01% w/w. Synthetic mineral fibre detected. Organic fibre detected. No trace asbestos detected.
L6-A01	23-Jn0069923	Jun 28, 2023	Approximate Sample 2g / 40X12X5mm Sample consisted of: Grey layered fibre cement material	No asbestos detected. Organic fibre detected. No trace asbestos detected.
L6-A02	23-Jn0069924	Jun 28, 2023	Approximate Sample 2g / 20x20x2mm Sample consisted of: Blue flexible vinyl sheet and amber glue	No asbestos detected. No trace asbestos detected.
L6-A03	23-Jn0069925	Jun 28, 2023	Approximate Sample 1g / 30x10x2mm Sample consisted of: Blu flexible linoleum and amber glue	No asbestos detected. Synthetic mineral fibre detected. No trace asbestos detected.
L6-A04	23-Jn0069926	Jun 28, 2023	Approximate Sample 2g / 15x10x2mm Sample consisted of: Cream semi brittle vinyl tile and amber glue	No asbestos detected. No trace asbestos detected.
L6-A05	23-Jn0069927	Jun 28, 2023	Approximate Sample <1g / 12x8x2mm Sample consisted of: Brown fibre plaster cement material and off-white coating	No asbestos detected. Organic fibre detected. No trace asbestos detected.
L6-A06	23-Jn0069928	Jun 28, 2023	Approximate Sample 1g / 15x8x5mm Sample consisted of: Grey sealant material	No asbestos detected. No trace asbestos detected.
L6-A07	23-Jn0069929	Jun 28, 2023	Approximate Sample 1g / 30x10x3mm Sample consisted of: Grey compressed fibre cement material	No asbestos detected. Organic fibre detected. No trace asbestos detected.
L6-A08	23-Jn0069930	Jun 28, 2023	Approximate Sample 40g / 90x40x5mm Sample consisted of: Grey layered fibre cement material	No asbestos detected. Organic fibre detected. No trace asbestos detected.
L6-A09	23-Jn0069931	Jun 28, 2023	Approximate Sample 3g / 90x30x2mm Sample consisted of: Black carpet underlay	No asbestos detected. Organic fibre detected. No trace asbestos detected.
L6-A10	23-Jn0069932	Jun 28, 2023	Approximate Sample 15g / 50x15x7mm Sample consisted of: Yellow mastic material	No asbestos detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
L6-A11	23-Jn0069933	Jun 28, 2023	Approximate Sample 1g / 30x10x7mm Sample consisted of: Black rubber sheet fragments and amber glue	No asbestos detected. No trace asbestos detected.
L6-AD01	23-Jn0069934	Jun 28, 2023	Approximate Sample <1g / 25x10x1mm Sample consisted of: Grey fluffy fibrous material	No asbestos detected. Organic fibre detected. No trace asbestos detected.
L6-AD02	23-Jn0069935	Jun 28, 2023	Approximate Sample 1g Sample consisted of: Dust particles fragments of soft fibrous material, paint flakes, plaster in powder form, compressed fibrous material and organic debris	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
L7-A01	23-Jn0069944	Jun 28, 2023	Approximate Sample 14g / 80x50x10mm Sample consisted of: Brown vermiculite plaster material	No asbestos detected. No trace asbestos detected.
L7-A02	23-Jn0069945	Jun 28, 2023	Approximate Sample 3g / 40x15x5mm Sample consisted of: Brown/ gold vermiculite fibro- plaster material	No asbestos detected. Organic fibre detected. No trace asbestos detected.
L7-A03	23-Jn0069946	Jun 28, 2023	Approximate Sample <1g / 7x5x2mm Sample consisted of: Off-white sealant material	No asbestos detected. No trace asbestos detected.
L7-A04	23-Jn0069947	Jun 28, 2023	Approximate Sample 2g / 30x7x5mm Sample consisted of: Grey sealant material	No asbestos detected. No trace asbestos detected.
L7-A05	23-Jn0069948	Jun 28, 2023	Approximate Sample <1g / 20x10x2mm Sample consisted of: Brown fibre plaster insulation material	No asbestos detected. Synthetic mineral fibre detected. No trace asbestos detected.
L7-A06	23-Jn0069949	Jun 28, 2023	Approximate Sample 1g / 20x15x2mm Sample consisted of: Black fibrous material	No asbestos detected. Organic fibre detected. No trace asbestos detected.
L7-A07	23-Jn0069950	Jun 28, 2023	Approximate Sample 2g / 30x15x2mm Sample consisted of: Grey flexible in linoleum material	No asbestos detected. Synthetic mineral fibre detected. No trace asbestos detected.
L7-A08	23-Jn0069951	Jun 28, 2023	Approximate Sample 1g / 20x10x3mm Sample consisted of: Grey sealant material	No asbestos detected. No trace asbestos detected.
L7-AD01	23-Jn0069952	Jun 28, 2023	Approximate Sample 1g Sample consisted of: Dust particles, fragments of soft fibrous material, foam like material, plaster in powder form and organic debris	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
L5-A12	23-Jn0069960	Jun 28, 2023	Approximate Sample 3g / 35x15x3mm Sample consisted of: Grey layered fibre cement material	No asbestos detected. Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
L5-A13	23-Jn0069961	Jun 28, 2023	Approximate Sample 1g / 25x15x2mm Sample consisted of: White fibre plaster material	Chrysotile and amosite asbestos detected.
L5-A14	23-Jn0069962	Jun 28, 2023	Approximate Sample <1g / 12x10x2mm Sample consisted of: Grey fibre plaster cement material	No asbestos detected. No trace asbestos detected.
L5-A15	23-Jn0069963	Jun 28, 2023	Approximate Sample 3g / 20x15x2mm Sample consisted of: Green flexible vinyl sheet and amber glue	No asbestos detected. No trace asbestos detected.
L5-A16	23-Jn0069964	Jun 28, 2023	Approximate Sample 1g / 30x7x2mm Sample consisted of: Grey sealant material	No asbestos detected. No trace asbestos detected.
L5-A17	23-Jn0069965	Jun 28, 2023	Approximate Sample 1g / 20x10x2mm Sample consisted of: Red flexible vinyl sheet and amber glue	No asbestos detected. No trace asbestos detected.
L5-A18	23-Jn0069966	Jun 28, 2023	Approximate Sample 1g / 15x10x2mm Sample consisted of: Yellow flexible linoleum and black/ blue fibrous backing	No asbestos detected. Synthetic mineral fibre detected. No trace asbestos detected.
L5-A19	23-Jn0069967	Jun 28, 2023	Approximate Sample <1g / 10x8x2mm Sample consisted of: Grey fibre plaster cement material and off-white coating	No asbestos detected. Organic fibre detected. No trace asbestos detected.
L5-A20	23-Jn0069968	Jun 28, 2023	Approximate Sample <1g / 20x5x2mm Sample consisted of: Grey fibre plaster cement material	No asbestos detected. Organic fibre detected. No trace asbestos detected.
L5-A21	23-Jn0069969	Jun 28, 2023	Approximate Sample <1g / 10x8x2mm Sample consisted of: Grey fibre plaster cement material and pink coating	No asbestos detected. Organic fibre detected. No trace asbestos detected.
L5-A22	23-Jn0069970	Jun 28, 2023	Approximate Sample 2g / 15x10x2mm Sample consisted of: Blue flexible vinyl sheet and amber glue	No asbestos detected. No trace asbestos detected.
L5-A23	23-Jn0069971	Jun 28, 2023	Approximate Sample 1g / 12x8x2mm Sample consisted of: Grey flexible vinyl sheet and amber glue	No asbestos detected. No trace asbestos detected.
L5-A24	23-Jn0069972	Jun 28, 2023	Approximate Sample 5g / 40x20x2mm Sample consisted of: Green flexible vinyl sheet and amber glue	No asbestos detected. No trace asbestos detected.
L5-A25	23-Jn0069973	Jun 28, 2023	Approximate Sample <1g / 12x8x2mm Sample consisted of: Grey flexible vinyl sheet and amber glue	No asbestos detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
L5-AD03	23-Jn0069974	Jun 28, 2023	Approximate Sample 1g Sample consisted of: Dust particles, fragments of metals, soft fibrous material, plaster in fragments and powder form and organic debris	No asbestos detected at the reporting limit of 0.01% w/w. Synthetic mineral fibre detected. Organic fibre detected. No trace asbestos detected.
L6-A12	23-Jn0069982	Jun 28, 2023	Approximate Sample <1g / 10x8x2mm Sample consisted of: Grey fibre plaster cement material	No asbestos detected. Organic fibre detected. No trace asbestos detected.
L6-AD03	23-Jn0069983	Jun 28, 2023	Approximate Sample <1g / 20x12x2mm Sample consisted of: White fibre plaster material	No asbestos detected. Organic fibre detected. No trace asbestos detected.

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8020	Sydney	Jul 10, 2023	Indefinite
Asbestos - LTM-ASB-8020	Sydney	Jul 10, 2023	Indefinite

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Fax:

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Priority: 5 Day
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Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - AS4964	Asbestos Absence /Presence	Lead	Lead (% w/w)
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X
External Laboratory									
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**				
1	L1-A01	Jun 28, 2023		Building Materials	S23-Jn0069842		X		
2	L1-A02	Jun 28, 2023		Building Materials	S23-Jn0069843		X		
3	L1-A03	Jun 28, 2023		Building Materials	S23-Jn0069844		X		
4	L1-A04	Jun 28, 2023		Building Materials	S23-Jn0069845		X		
5	L1-A05	Jun 28, 2023		Building Materials	S23-Jn0069846		X		
6	L1-L01	Jun 28, 2023		Paint	S23-Jn0069847				X
7	L1-L02	Jun 28, 2023		Paint	S23-Jn0069848				X
8	L1-L03	Jun 28, 2023		Paint	S23-Jn0069849				X
9	L2-A01	Jun 28, 2023		Building Materials	S23-Jn0069850		X		

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Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X
10	L2-A02	Jun 28, 2023		Building Materials	S23-Jn0069851		X		
11	L2-A03	Jun 28, 2023		Building Materials	S23-Jn0069852		X		
12	L2-A04	Jun 28, 2023		Building Materials	S23-Jn0069853		X		
13	L2-A05	Jun 28, 2023		Building Materials	S23-Jn0069854		X		
14	L2-L01	Jun 28, 2023		Paint	S23-Jn0069855				X
15	L3-A01	Jun 28, 2023		Building Materials	S23-Jn0069856		X		
16	L3-A02	Jun 28, 2023		Building Materials	S23-Jn0069857		X		
17	L3-A03	Jun 28, 2023		Building Materials	S23-Jn0069858		X		
18	L3-A04	Jun 28, 2023		Building Materials	S23-Jn0069859		X		
19	L3-A05	Jun 28, 2023		Building Materials	S23-Jn0069860		X		

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Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X
20	L3-A06	Jun 28, 2023		Building Materials	S23-Jn0069861		X		
21	L3-A07	Jun 28, 2023		Building Materials	S23-Jn0069862		X		
22	L3-A08	Jun 28, 2023		Building Materials	S23-Jn0069863		X		
23	L3-A09	Jun 28, 2023		Building Materials	S23-Jn0069864		X		
24	L3-AD01	Jun 28, 2023		Dust	S23-Jn0069865	X			
25	L3-AD02	Jun 28, 2023		Dust	S23-Jn0069866		X		
26	L3-LD01	Jun 28, 2023		Dust	S23-Jn0069867			X	
27	L3-LD02	Jun 28, 2023		Dust	S23-Jn0069868			X	
28	L4-A01	Jun 28, 2023		Building Materials	S23-Jn0069869		X		
29	L4-A02	Jun 28, 2023		Building Materials	S23-Jn0069870		X		
30	L4-A03	Jun 28, 2023		Building Materials	S23-Jn0069871		X		

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Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - AS4964	Asbestos Absence /Presence	Lead	Lead (% w/w)
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X
31	L4-A04	Jun 28, 2023		Building Materials	S23-Jn0069872		X		
32	L4-A05	Jun 28, 2023		Building Materials	S23-Jn0069873		X		
33	L4-A06	Jun 28, 2023		Building Materials	S23-Jn0069874		X		
34	L4-A07	Jun 28, 2023		Building Materials	S23-Jn0069875		X		
35	L4-A08	Jun 28, 2023		Building Materials	S23-Jn0069876		X		
36	L4-A09	Jun 28, 2023		Building Materials	S23-Jn0069877		X		
37	L4-A10	Jun 28, 2023		Building Materials	S23-Jn0069878		X		
38	L4-A11	Jun 28, 2023		Building Materials	S23-Jn0069879		X		
39	L4-A12	Jun 28, 2023		Building Materials	S23-Jn0069880		X		
40	L4-A13	Jun 28, 2023		Building	S23-Jn0069881		X		

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NATA# 1261 Site# 1254	NATA# 1261 Site# 25403	NATA# 1261 Site# 18217	NATA# 1261 Site# 25466	NATA# 1261 Site# 20794	Site# 25079 & 25289

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Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X
40	L4-A13	Jun 28, 2023		Building Materials	S23-Jn0069881				
41	L4-A14	Jun 28, 2023		Building Materials	S23-Jn0069882		X		
42	L4-A15	Jun 28, 2023		Building Materials	S23-Jn0069883		X		
43	L4-A16	Jun 28, 2023		Building Materials	S23-Jn0069884		X		
44	L4-A17	Jun 28, 2023		Building Materials	S23-Jn0069885		X		
45	L4-A18	Jun 28, 2023		Building Materials	S23-Jn0069886		X		
46	L4-A19	Jun 28, 2023		Building Materials	S23-Jn0069887		X		
47	L4-A20	Jun 28, 2023		Building Materials	S23-Jn0069888		X		
48	L4-A21	Jun 28, 2023		Building Materials	S23-Jn0069889		X		
49	L4-A22	Jun 28, 2023		Building	S23-Jn0069890		X		

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Sample Detail						Asbestos - AS4964	Asbestos Absence /Presence	Lead	Lead (% w/w)
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X
				Materials					
50	L4-A23	Jun 28, 2023		Building Materials	S23-Jn0069891		X		
51	L4-A24	Jun 28, 2023		Building Materials	S23-Jn0069892		X		
52	L4-A25	Jun 28, 2023		Building Materials	S23-Jn0069893		X		
53	L4-A26	Jun 28, 2023		Building Materials	S23-Jn0069894		X		
54	L4-AD01	Jun 28, 2023		Dust	S23-Jn0069895	X			
55	L4-AD02	Jun 28, 2023		Dust	S23-Jn0069896	X			
56	L4-LD01	Jun 28, 2023		Dust	S23-Jn0069897			X	
57	L4-LD02	Jun 28, 2023		Dust	S23-Jn0069898			X	
58	L4-L01	Jun 28, 2023		Paint	S23-Jn0069899				X
59	L4-L02	Jun 28, 2023		Paint	S23-Jn0069900				X
60	L4-L03	Jun 28, 2023		Paint	S23-Jn0069901				X
61	L4-L04	Jun 28, 2023		Paint	S23-Jn0069902				X

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Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X
62	L4-L05	Jun 28, 2023		Paint	S23-Jn0069903				X
63	L4-L06	Jun 28, 2023		Paint	S23-Jn0069904				X
64	L4-L07	Jun 28, 2023		Paint	S23-Jn0069905				X
65	L4-L08	Jun 28, 2023		Paint	S23-Jn0069906				X
66	L4-L09	Jun 28, 2023		Paint	S23-Jn0069907				X
67	L5-A01	Jun 28, 2023		Building Materials	S23-Jn0069908		X		
68	L5-A02	Jun 28, 2023		Building Materials	S23-Jn0069909		X		
69	L5-A03	Jun 28, 2023		Building Materials	S23-Jn0069910		X		
70	L5-A04	Jun 28, 2023		Building Materials	S23-Jn0069911		X		
71	L5-A05	Jun 28, 2023		Building Materials	S23-Jn0069912		X		
72	L5-A06	Jun 28, 2023		Building Materials	S23-Jn0069913		X		
73	L5-A07	Jun 28, 2023		Building	S23-Jn0069914		X		

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Fax:

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Due: Jul 6, 2023
Priority: 5 Day
Contact Name: Stuart Lumsden

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - AS4964	Asbestos Absence /Presence	Lead	Lead (% w/w)
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X
				Materials					
74	L5-A08	Jun 28, 2023		Building Materials	S23-Jn0069915		X		
75	L5-A09	Jun 28, 2023		Building Materials	S23-Jn0069916		X		
76	L5-A10	Jun 28, 2023		Building Materials	S23-Jn0069917		X		
77	L5-A11	Jun 28, 2023		Building Materials	S23-Jn0069918		X		
78	L5-AD01	Jun 28, 2023		Dust	S23-Jn0069919	X	X		
79	L5-AD02	Jun 28, 2023		Dust	S23-Jn0069920	X			
80	L5-LD01	Jun 28, 2023		Dust	S23-Jn0069921			X	
81	L5-LD02	Jun 28, 2023		Dust	S23-Jn0069922			X	
82	L6-A01	Jun 28, 2023		Building Materials	S23-Jn0069923		X		
83	L6-A02	Jun 28, 2023		Building Materials	S23-Jn0069924		X		
84	L6-A03	Jun 28, 2023		Building	S23-Jn0069925		X		

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NATA# 1261 Site# 1254	NATA# 1261 Site# 25403	NATA# 1261 Site# 18217	NATA# 1261 Site# 25466	NATA# 1261 Site# 20794	Site# 25079 & 25289

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Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X
84	L6-A03	Jun 28, 2023		Building Materials	S23-Jn0069925				
85	L6-A04	Jun 28, 2023		Building Materials	S23-Jn0069926		X		
86	L6-A05	Jun 28, 2023		Building Materials	S23-Jn0069927		X		
87	L6-A06	Jun 28, 2023		Building Materials	S23-Jn0069928		X		
88	L6-A07	Jun 28, 2023		Building Materials	S23-Jn0069929		X		
89	L6-A08	Jun 28, 2023		Building Materials	S23-Jn0069930		X		
90	L6-A09	Jun 28, 2023		Building Materials	S23-Jn0069931		X		
91	L6-A10	Jun 28, 2023		Building Materials	S23-Jn0069932		X		
92	L6-A11	Jun 28, 2023		Building Materials	S23-Jn0069933		X		
93	L6-AD01	Jun 28, 2023		Dust	S23-Jn0069934		X		

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Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X
94	L6-AD02	Jun 28, 2023		Dust	S23-Jn0069935	X			
95	L6-LD01	Jun 28, 2023		Dust	S23-Jn0069936			X	
96	L6-LD02	Jun 28, 2023		Dust	S23-Jn0069937			X	
97	L6-L01	Jun 28, 2023		Paint	S23-Jn0069938				X
98	L6-L02	Jun 28, 2023		Paint	S23-Jn0069939				X
99	L6-L03	Jun 28, 2023		Paint	S23-Jn0069940				X
100	L6-L04	Jun 28, 2023		Paint	S23-Jn0069941				X
101	L6-L05	Jun 28, 2023		Paint	S23-Jn0069942				X
102	L6-L06	Jun 28, 2023		Paint	S23-Jn0069943				X
103	L7-A01	Jun 28, 2023		Building Materials	S23-Jn0069944		X		
104	L7-A02	Jun 28, 2023		Building Materials	S23-Jn0069945		X		
105	L7-A03	Jun 28, 2023		Building Materials	S23-Jn0069946		X		
106	L7-A04	Jun 28, 2023		Building Materials	S23-Jn0069947		X		

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Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X
107	L7-A05	Jun 28, 2023		Building Materials	S23-Jn0069948		X		
108	L7-A06	Jun 28, 2023		Building Materials	S23-Jn0069949		X		
109	L7-A07	Jun 28, 2023		Building Materials	S23-Jn0069950		X		
110	L7-A08	Jun 28, 2023		Building Materials	S23-Jn0069951		X		
111	L7-AD01	Jun 28, 2023		Dust	S23-Jn0069952	X			
112	L7-LD01	Jun 28, 2023		Dust	S23-Jn0069953			X	
113	L7-L01	Jun 28, 2023		Paint	S23-Jn0069954				X
114	L7-L02	Jun 28, 2023		Paint	S23-Jn0069955				X
115	L7-L03	Jun 28, 2023		Paint	S23-Jn0069956				X
116	L7-L04	Jun 28, 2023		Paint	S23-Jn0069957				X
117	L7-L05	Jun 28, 2023		Paint	S23-Jn0069958				X
118	L7-L06	Jun 28, 2023		Paint	S23-Jn0069959				X
119	L5-A12	Jun 28, 2023		Building	S23-Jn0069960		X		

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Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X
				Materials					
120	L5-A13	Jun 28, 2023		Building Materials	S23-Jn0069961		X		
121	L5-A14	Jun 28, 2023		Building Materials	S23-Jn0069962		X		
122	L5-A15	Jun 28, 2023		Building Materials	S23-Jn0069963		X		
123	L5-A16	Jun 28, 2023		Building Materials	S23-Jn0069964		X		
124	L5-A17	Jun 28, 2023		Building Materials	S23-Jn0069965		X		
125	L5-A18	Jun 28, 2023		Building Materials	S23-Jn0069966		X		
126	L5-A19	Jun 28, 2023		Building Materials	S23-Jn0069967		X		
127	L5-A20	Jun 28, 2023		Building Materials	S23-Jn0069968		X		
128	L5-A21	Jun 28, 2023		Building Materials	S23-Jn0069969		X		

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Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X
129	L5-A22	Jun 28, 2023		Building Materials	S23-Jn0069970		X		
130	L5-A23	Jun 28, 2023		Building Materials	S23-Jn0069971		X		
131	L5-A24	Jun 28, 2023		Building Materials	S23-Jn0069972		X		
132	L5-A25	Jun 28, 2023		Building Materials	S23-Jn0069973		X		
133	L5-AD03	Jun 28, 2023		Dust	S23-Jn0069974	X			
134	L5-LD03	Jun 28, 2023		Dust	S23-Jn0069975			X	
135	L5-L02	Jun 28, 2023		Paint	S23-Jn0069976				X
136	L5-L03	Jun 28, 2023		Paint	S23-Jn0069977				X
137	L5-L04	Jun 28, 2023		Paint	S23-Jn0069978				X
138	L5-L05	Jun 28, 2023		Paint	S23-Jn0069979				X
139	L5-L06	Jun 28, 2023		Paint	S23-Jn0069980				X
140	L5-L07	Jun 28, 2023		Paint	S23-Jn0069981				X
141	L6-A12	Jun 28, 2023		Building	S23-Jn0069982		X		

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Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X
				Materials					
142	L6-AD03	Jun 28, 2023		Dust	S23-Jn0069983		X		
143	L6-LD03	Jun 28, 2023		Dust	S23-Jn0069984			X	
144	L5-L01	Jun 28, 2023		Paint	S23-Jn0070191				X
Test Counts						8	94	11	32

Internal Quality Control Review and Glossary General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. Information identified on this report with the colour **blue** indicates data provided by customer that may have an impact on the results.
5. This report replaces any interim results previously issued.

Holding Times

Please refer to the most recent version of the 'Sample Preservation and Container Guide' for holding times (QS3001).
If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported. Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

Units

% w/w:	Percentage weight-for-weight basis, e.g. of asbestos in asbestos-containing finds in soil samples (**% w/w**)
F/fld	Airborne fibre filter loading as Fibres (**N**) per Fields counted (**n**)
F/mL	Airborne fibre reported concentration as Fibres per millilitre of air drawn over the sampler membrane (**C**)
g, kg	Mass, e.g. of whole sample (**M**) or asbestos-containing find within the sample (**m**)
g/kg	Concentration in grams per kilogram
L, mL	Volume, e.g. of air as measured in AFM (**V** = **r** x **t**)
L/min	Airborne fibre sampling Flowrate as litres per minute of air drawn over the sampler membrane (**r**)
min	Time (**t**), e.g. of air sample collection period

Calculations

Airborne Fibre Concentration: $C = \left(\frac{A}{a}\right) \times \left(\frac{N}{n}\right) \times \left(\frac{1}{r}\right) \times \left(\frac{1}{t}\right) = K \times \left(\frac{N}{n}\right) \times \left(\frac{1}{V}\right)$

Asbestos Content (as asbestos): $\%\, w/w = \frac{(m \times P_A)}{M}$

Weighted Average (of asbestos): $\%_{WA} = \sum \frac{(m \times P_A)_x}{x}$

Terms

%asbestos	Estimated percentage of asbestos in a given matrix. May be derived from knowledge or experience of the material, informed by HSG264 *Appendix 2*, else assumed to be 15% in accordance with WA DOH *Appendix 2* (**P_A**).
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded (non-friable) condition. For the purposes of the NEPM and WA DOH, ACM corresponds to material larger than 7 mm x 7 mm.
AF	Asbestos Fines. Asbestos contamination within a soil sample, as defined by WA DOH. Includes loose fibre bundles and small pieces of friable and non-friable material such as asbestos cement fragments mixed with soil. Considered under the NEPM as equivalent to “non-bonded / friable”.
AFM	Airborne Fibre Monitoring, e.g. by the MFM.
Amosite	Amosite Asbestos Detected. Amosite may also refer to Fibrous Grunerite or Brown Asbestos. Identified in accordance with AS 4964-2004.
AS	Australian Standard.
Asbestos Content (as asbestos)	Total % w/w asbestos content in asbestos-containing finds in a soil sample (**% w/w)**.
Chrysotile	Chrysotile Asbestos Detected. Chrysotile may also refer to Fibrous Serpentine or White Asbestos. Identified in accordance with AS 4964-2004.
COC	Chain of Custody.
Crocidolite	Crocidolite Asbestos Detected. Crocidolite may also refer to Fibrous Riebeckite or Blue Asbestos. Identified in accordance with AS 4964-2004.
Dry	Sample is dried by heating prior to analysis.
DS	Dispersion Staining. Technique required for Unequivocal Identification of asbestos fibres by PLM.
FA	Fibrous Asbestos. Asbestos containing material that is wholly or in part friable, including materials with higher asbestos content with a propensity to become friable with handling, and any material that was previously non-friable and in a severely degraded condition. For the purposes of the NEPM and WA DOH, FA generally corresponds to material larger than 7 mm x 7 mm, although FA may be more difficult to visibly distinguish and may be assessed as AF.
Fibre Count	Total of all fibres (whether asbestos or not) meeting the counting criteria set out in the NOHSC:3003
Fibre ID	Fibre Identification. Unequivocal identification of asbestos fibres according to AS 4964-2004. Includes Chrysotile, Amosite (Grunerite) or Crocidolite asbestos.
Friable	Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory’s remit to assess degree of friability.
HSG248	UK HSE HSG248, *Asbestos: The Analysts Guide*, 2nd Edition (2021).
HSG264	UK HSE HSG264, *Asbestos: The Survey Guide* (2012).
ISO (also ISO/IEC)	International Organization for Standardization / International Electrotechnical Commission.
K Factor	Microscope constant (**K**) as derived from the effective filter area of the given AFM membrane used for collecting the sample (**A**) and the projected eyepiece graticule area of the specific microscope used for the analysis (**a**).
LOR	Limit of Reporting.
MFM (also NOHSC:3003)	Membrane Filter Method. As described by the Australian Government National Occupational Health and Safety Commission, *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres*, 2nd Edition [NOHSC:3003(2005)].
NEPM (also ASC NEPM)	National Environment Protection (Assessment of Site Contamination) Measure, (2013, as amended).
Organic	Organic Fibres Detected. Organic may refer to Natural or Man-Made Polymeric Fibres. Identified in accordance with AS 4964-2004.
PCM	Phase Contrast Microscopy. As used for Fibre Counting according to the MFM.
PLM	Polarised Light Microscopy. As used for Fibre Identification and Trace Analysis according to AS 4964-2004.
Sampling	Unless otherwise stated Eurofins are not responsible for sampling equipment or the sampling process.
SMF	Synthetic Mineral Fibre Detected. SMF may also refer to Man Made Vitreous Fibres. Identified in accordance with AS 4964-2004.
SRA	Sample Receipt Advice.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres (particularly asbestos) in a given sample matrix.
UK HSE HSG	United Kingdom, Health and Safety Executive, Health and Safety Guidance, publication.
UMF	Unidentified Mineral Fibre Detected. Fibrous minerals that are detected but have not been unequivocally identified by PLM with DS according the AS 4964-2004. May include (but not limited to) Actinolite, Anthophyllite or Tremolite asbestos.
WA DOH	Reference document for the NEPM. Government of Western Australia, *Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia* (updated 2021), including Appendix Four: *Laboratory analysis*
Weighted Average	Combined average % w/w asbestos content of all asbestos-containing finds in the given aliquot or total soil sample (**$\%_{WA}$**).

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	N/A
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Asbestos Counter/Identifier:

Chamath JHM Annakkage	Senior Analyst-Asbestos

Authorised by:

Laxman Dias	Senior Analyst-Asbestos

Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
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NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: **Stuart Lumsden**

Report **1003655-S**
Project name RPA HOSPITAL-MAIN BUILDING
Project ID 63888
Received Date Jun 29, 2023

Client Sample ID			**L1-L01**	**L1-L02**	**L1-L03**	**L2-L01**
Sample Matrix			**Paint**	**Paint**	**Paint**	**Paint**
Eurofins Sample No.			**S23-Jn0069847**	**S23-Jn0069848**	**S23-Jn0069849**	**S23-Jn0069855**
Date Sampled			**Jun 28, 2023**	**Jun 28, 2023**	**Jun 28, 2023**	**Jun 28, 2023**
Test/Reference	LOR	Unit				
Lead (% w/w)	0.01	%	0.04	< 0.01	6.6	< 0.01

Client Sample ID			**L3-LD01**	**L3-LD02**	**L4-LD01**	**L4-LD02**
Sample Matrix			**Dust**	**Dust**	**Dust**	**Dust**
Eurofins Sample No.			**S23-Jn0069867**	**S23-Jn0069868**	**S23-Jn0069897**	**S23-Jn0069898**
Date Sampled			**Jun 28, 2023**	**Jun 28, 2023**	**Jun 28, 2023**	**Jun 28, 2023**
Test/Reference	LOR	Unit				
Heavy Metals						
Lead	5	mg/kg	130	< 5	510	100

Client Sample ID			**L4-L01**	**L4-L02**	**L4-L03**	**L4-L04**
Sample Matrix			**Paint**	**Paint**	**Paint**	**Paint**
Eurofins Sample No.			**S23-Jn0069899**	**S23-Jn0069900**	**S23-Jn0069901**	**S23-Jn0069902**
Date Sampled			**Jun 28, 2023**	**Jun 28, 2023**	**Jun 28, 2023**	**Jun 28, 2023**
Test/Reference	LOR	Unit				
Lead (% w/w)	0.01	%	0.02	< 0.01	2.9	0.03

Client Sample ID			**L4-L05**	**L4-L06**	**L4-L07**	**L4-L08**
Sample Matrix			**Paint**	**Paint**	**Paint**	**Paint**
Eurofins Sample No.			**S23-Jn0069903**	**S23-Jn0069904**	**S23-Jn0069905**	**S23-Jn0069906**
Date Sampled			**Jun 28, 2023**	**Jun 28, 2023**	**Jun 28, 2023**	**Jun 28, 2023**
Test/Reference	LOR	Unit				
Lead (% w/w)	0.01	%	< 0.01	0.09	0.06	0.32

Client Sample ID			L4-L09	L5-LD01	L5-LD02	L6-LD01
Sample Matrix			Paint	Dust	Dust	Dust
Eurofins Sample No.			S23-Jn0069907	S23-Jn0069921	S23-Jn0069922	S23-Jn0069936
Date Sampled			Jun 28, 2023	Jun 28, 2023	Jun 28, 2023	Jun 28, 2023
Test/Reference	LOR	Unit				
Lead (% w/w)	0.01	%	3.8	-	-	-
Heavy Metals						
Lead	5	mg/kg	-	100	40	49

Client Sample ID			L6-LD02	L6-L01	L6-L02	L6-L03
Sample Matrix			Dust	Paint	Paint	Paint
Eurofins Sample No.			S23-Jn0069937	S23-Jn0069938	S23-Jn0069939	S23-Jn0069940
Date Sampled			Jun 28, 2023	Jun 28, 2023	Jun 28, 2023	Jun 28, 2023
Test/Reference	LOR	Unit				
Lead (% w/w)	0.01	%	-	0.01	3.3	< 0.01
Heavy Metals						
Lead	5	mg/kg	56	-	-	-

Client Sample ID			L6-L04	L6-L05	L6-L06	L7-LD01
Sample Matrix			Paint	Paint	Paint	Dust
Eurofins Sample No.			S23-Jn0069941	S23-Jn0069942	S23-Jn0069943	S23-Jn0069953
Date Sampled			Jun 28, 2023	Jun 28, 2023	Jun 28, 2023	Jun 28, 2023
Test/Reference	LOR	Unit				
Lead (% w/w)	0.01	%	5.3	0.11	1.1	-
Heavy Metals						
Lead	5	mg/kg	-	-	-	190

Client Sample ID			L7-L01	L7-L02	L7-L03	L7-L04
Sample Matrix			Paint	Paint	Paint	Paint
Eurofins Sample No.			S23-Jn0069954	S23-Jn0069955	S23-Jn0069956	S23-Jn0069957
Date Sampled			Jun 28, 2023	Jun 28, 2023	Jun 28, 2023	Jun 28, 2023
Test/Reference	LOR	Unit				
Lead (% w/w)	0.01	%	4.3	< 0.01	0.05	0.15

Client Sample ID			L7-L05	L7-L06	L5-LD03	L5-L02
Sample Matrix			Paint	Paint	Dust	Paint
Eurofins Sample No.			S23-Jn0069958	S23-Jn0069959	S23-Jn0069975	S23-Jn0069976
Date Sampled			Jun 28, 2023	Jun 28, 2023	Jun 28, 2023	Jun 28, 2023
Test/Reference	LOR	Unit				
Lead (% w/w)	0.01	%	< 0.01	0.03	-	0.08
Heavy Metals						
Lead	5	mg/kg	-	-	310	-

Client Sample ID			L5-L03	L5-L04	L5-L05	L5-L06
Sample Matrix			Paint	Paint	Paint	Paint
Eurofins Sample No.			S23-Jn0069977	S23-Jn0069978	S23-Jn0069979	S23-Jn0069980
Date Sampled			Jun 28, 2023	Jun 28, 2023	Jun 28, 2023	Jun 28, 2023
Test/Reference	LOR	Unit				
Lead (% w/w)	0.01	%	3.5	5.4	7.5	3.0

Client Sample ID			L5-L07	L6-LD03	L5-L01
Sample Matrix			Paint	Dust	Paint
Eurofins Sample No.			S23-Jn0069981	S23-Jn0069984	S23-Jn0070191
Date Sampled			Jun 28, 2023	Jun 28, 2023	Jun 28, 2023
Test/Reference	LOR	Unit			
Lead (% w/w)	0.01	%	1.8	-	0.49
Heavy Metals					
Lead	5	mg/kg	-	26	-

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Lead (% w/w)	Sydney	Jun 30, 2023	6 Months
- Method: LTM-MET-3040 Metals in Waters Soils & Sediments by ICP-MS			
Heavy Metals	Sydney	Jul 05, 2023	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			

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Project Name: RPA HOSPITAL-MAIN BUILDING
Project ID: 63888

Order No.:
Report #: 1003655
Phone: 02 8245 0300
Fax:

Received: Jun 29, 2023 2:45 PM
Due: Jul 6, 2023
Priority: 5 Day
Contact Name: Stuart Lumsden

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos Absence /Presence	Lead	Lead (% w/w)
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X
External Laboratory								
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**			
1	L1-A01	Jun 28, 2023		Building Materials	S23-Jn0069842	X		
2	L1-A02	Jun 28, 2023		Building Materials	S23-Jn0069843	X		
3	L1-A03	Jun 28, 2023		Building Materials	S23-Jn0069844	X		
4	L1-A04	Jun 28, 2023		Building Materials	S23-Jn0069845	X		
5	L1-A05	Jun 28, 2023		Building Materials	S23-Jn0069846	X		
6	L1-L01	Jun 28, 2023		Paint	S23-Jn0069847			X
7	L1-L02	Jun 28, 2023		Paint	S23-Jn0069848			X
8	L1-L03	Jun 28, 2023		Paint	S23-Jn0069849			X
9	L2-A01	Jun 28, 2023		Building Materials	S23-Jn0069850	X		

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Received: Jun 29, 2023 2:45 PM
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Priority: 5 Day
Contact Name: Stuart Lumsden

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos Absence /Presence	Lead	Lead (% w/w)
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X
10	L2-A02	Jun 28, 2023		Building Materials	S23-Jn0069851	X		
11	L2-A03	Jun 28, 2023		Building Materials	S23-Jn0069852	X		
12	L2-A04	Jun 28, 2023		Building Materials	S23-Jn0069853	X		
13	L2-A05	Jun 28, 2023		Building Materials	S23-Jn0069854	X		
14	L2-L01	Jun 28, 2023		Paint	S23-Jn0069855			X
15	L3-A01	Jun 28, 2023		Building Materials	S23-Jn0069856	X		
16	L3-A02	Jun 28, 2023		Building Materials	S23-Jn0069857	X		
17	L3-A03	Jun 28, 2023		Building Materials	S23-Jn0069858	X		
18	L3-A04	Jun 28, 2023		Building Materials	S23-Jn0069859	X		
19	L3-A05	Jun 28, 2023		Building Materials	S23-Jn0069860	X		

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Sample Detail						Asbestos Absence /Presence	Lead	Lead (% w/w)
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X
20	L3-A06	Jun 28, 2023		Building Materials	S23-Jn0069861	X		
21	L3-A07	Jun 28, 2023		Building Materials	S23-Jn0069862	X		
22	L3-A08	Jun 28, 2023		Building Materials	S23-Jn0069863	X		
23	L3-A09	Jun 28, 2023		Building Materials	S23-Jn0069864	X		
24	L3-AD01	Jun 28, 2023		Dust	S23-Jn0069865	X		
25	L3-AD02	Jun 28, 2023		Dust	S23-Jn0069866	X		
26	L3-LD01	Jun 28, 2023		Dust	S23-Jn0069867		X	
27	L3-LD02	Jun 28, 2023		Dust	S23-Jn0069868		X	
28	L4-A01	Jun 28, 2023		Building Materials	S23-Jn0069869	X		
29	L4-A02	Jun 28, 2023		Building Materials	S23-Jn0069870	X		
30	L4-A03	Jun 28, 2023		Building Materials	S23-Jn0069871	X		

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Contact Name: Stuart Lumsden

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos Absence /Presence	Lead	Lead (% w/w)
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X
31	L4-A04	Jun 28, 2023		Building Materials	S23-Jn0069872	X		
32	L4-A05	Jun 28, 2023		Building Materials	S23-Jn0069873	X		
33	L4-A06	Jun 28, 2023		Building Materials	S23-Jn0069874	X		
34	L4-A07	Jun 28, 2023		Building Materials	S23-Jn0069875	X		
35	L4-A08	Jun 28, 2023		Building Materials	S23-Jn0069876	X		
36	L4-A09	Jun 28, 2023		Building Materials	S23-Jn0069877	X		
37	L4-A10	Jun 28, 2023		Building Materials	S23-Jn0069878	X		
38	L4-A11	Jun 28, 2023		Building Materials	S23-Jn0069879	X		
39	L4-A12	Jun 28, 2023		Building Materials	S23-Jn0069880	X		
40	L4-A13	Jun 28, 2023		Building	S23-Jn0069881	X		

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Sample Detail						Asbestos Absence /Presence	Lead	Lead (% w/w)
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X
40	L4-A13	Jun 28, 2023		Building Materials	S23-Jn0069881			
41	L4-A14	Jun 28, 2023		Building Materials	S23-Jn0069882	X		
42	L4-A15	Jun 28, 2023		Building Materials	S23-Jn0069883	X		
43	L4-A16	Jun 28, 2023		Building Materials	S23-Jn0069884	X		
44	L4-A17	Jun 28, 2023		Building Materials	S23-Jn0069885	X		
45	L4-A18	Jun 28, 2023		Building Materials	S23-Jn0069886	X		
46	L4-A19	Jun 28, 2023		Building Materials	S23-Jn0069887	X		
47	L4-A20	Jun 28, 2023		Building Materials	S23-Jn0069888	X		
48	L4-A21	Jun 28, 2023		Building Materials	S23-Jn0069889	X		
49	L4-A22	Jun 28, 2023		Building	S23-Jn0069890	X		

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Project Name: RPA HOSPITAL-MAIN BUILDING
Project ID: 63888

Order No.:
Report #: 1003655
Phone: 02 8245 0300
Fax:

Received: Jun 29, 2023 2:45 PM
Due: Jul 6, 2023
Priority: 5 Day
Contact Name: Stuart Lumsden

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos Absence /Presence	Lead	Lead (% w/w)
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X
				Materials				
50	L4-A23	Jun 28, 2023		Building Materials	S23-Jn0069891	X		
51	L4-A24	Jun 28, 2023		Building Materials	S23-Jn0069892	X		
52	L4-A25	Jun 28, 2023		Building Materials	S23-Jn0069893	X		
53	L4-A26	Jun 28, 2023		Building Materials	S23-Jn0069894	X		
54	L4-AD01	Jun 28, 2023		Dust	S23-Jn0069895	X		
55	L4-AD02	Jun 28, 2023		Dust	S23-Jn0069896	X		
56	L4-LD01	Jun 28, 2023		Dust	S23-Jn0069897		X	
57	L4-LD02	Jun 28, 2023		Dust	S23-Jn0069898		X	
58	L4-L01	Jun 28, 2023		Paint	S23-Jn0069899			X
59	L4-L02	Jun 28, 2023		Paint	S23-Jn0069900			X
60	L4-L03	Jun 28, 2023		Paint	S23-Jn0069901			X
61	L4-L04	Jun 28, 2023		Paint	S23-Jn0069902			X

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Sample Detail						Asbestos Absence /Presence	Lead	Lead (% w/w)
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X
62	L4-L05	Jun 28, 2023		Paint	S23-Jn0069903			X
63	L4-L06	Jun 28, 2023		Paint	S23-Jn0069904			X
64	L4-L07	Jun 28, 2023		Paint	S23-Jn0069905			X
65	L4-L08	Jun 28, 2023		Paint	S23-Jn0069906			X
66	L4-L09	Jun 28, 2023		Paint	S23-Jn0069907			X
67	L5-A01	Jun 28, 2023		Building Materials	S23-Jn0069908	X		
68	L5-A02	Jun 28, 2023		Building Materials	S23-Jn0069909	X		
69	L5-A03	Jun 28, 2023		Building Materials	S23-Jn0069910	X		
70	L5-A04	Jun 28, 2023		Building Materials	S23-Jn0069911	X		
71	L5-A05	Jun 28, 2023		Building Materials	S23-Jn0069912	X		
72	L5-A06	Jun 28, 2023		Building Materials	S23-Jn0069913	X		
73	L5-A07	Jun 28, 2023		Building	S23-Jn0069914	X		

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Sample Detail						Asbestos Absence /Presence	Lead	Lead (% w/w)
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X
				Materials				
74	L5-A08	Jun 28, 2023		Building Materials	S23-Jn0069915	X		
75	L5-A09	Jun 28, 2023		Building Materials	S23-Jn0069916	X		
76	L5-A10	Jun 28, 2023		Building Materials	S23-Jn0069917	X		
77	L5-A11	Jun 28, 2023		Building Materials	S23-Jn0069918	X		
78	L5-AD01	Jun 28, 2023		Dust	S23-Jn0069919	X		
79	L5-AD02	Jun 28, 2023		Dust	S23-Jn0069920	X		
80	L5-LD01	Jun 28, 2023		Dust	S23-Jn0069921		X	
81	L5-LD02	Jun 28, 2023		Dust	S23-Jn0069922		X	
82	L6-A01	Jun 28, 2023		Building Materials	S23-Jn0069923	X		
83	L6-A02	Jun 28, 2023		Building Materials	S23-Jn0069924	X		
84	L6-A03	Jun 28, 2023		Building	S23-Jn0069925	X		

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NATA# 1261 Site# 1254	NATA# 1261 Site# 25403	NATA# 1261 Site# 18217	NATA# 1261 Site# 25466	NATA# 1261 Site# 20794	Site# 25079 & 25289

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Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos Absence /Presence	Lead	Lead (% w/w)
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X
84	L6-A03	Jun 28, 2023		Building Materials	S23-Jn0069925			
85	L6-A04	Jun 28, 2023		Building Materials	S23-Jn0069926	X		
86	L6-A05	Jun 28, 2023		Building Materials	S23-Jn0069927	X		
87	L6-A06	Jun 28, 2023		Building Materials	S23-Jn0069928	X		
88	L6-A07	Jun 28, 2023		Building Materials	S23-Jn0069929	X		
89	L6-A08	Jun 28, 2023		Building Materials	S23-Jn0069930	X		
90	L6-A09	Jun 28, 2023		Building Materials	S23-Jn0069931	X		
91	L6-A10	Jun 28, 2023		Building Materials	S23-Jn0069932	X		
92	L6-A11	Jun 28, 2023		Building Materials	S23-Jn0069933	X		
93	L6-AD01	Jun 28, 2023		Dust	S23-Jn0069934	X		

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Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos Absence /Presence	Lead	Lead (% w/w)
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X
94	L6-AD02	Jun 28, 2023		Dust	S23-Jn0069935	X		
95	L6-LD01	Jun 28, 2023		Dust	S23-Jn0069936		X	
96	L6-LD02	Jun 28, 2023		Dust	S23-Jn0069937		X	
97	L6-L01	Jun 28, 2023		Paint	S23-Jn0069938			X
98	L6-L02	Jun 28, 2023		Paint	S23-Jn0069939			X
99	L6-L03	Jun 28, 2023		Paint	S23-Jn0069940			X
100	L6-L04	Jun 28, 2023		Paint	S23-Jn0069941			X
101	L6-L05	Jun 28, 2023		Paint	S23-Jn0069942			X
102	L6-L06	Jun 28, 2023		Paint	S23-Jn0069943			X
103	L7-A01	Jun 28, 2023		Building Materials	S23-Jn0069944	X		
104	L7-A02	Jun 28, 2023		Building Materials	S23-Jn0069945	X		
105	L7-A03	Jun 28, 2023		Building Materials	S23-Jn0069946	X		
106	L7-A04	Jun 28, 2023		Building Materials	S23-Jn0069947	X		

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Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X
107	L7-A05	Jun 28, 2023		Building Materials	S23-Jn0069948	X		
108	L7-A06	Jun 28, 2023		Building Materials	S23-Jn0069949	X		
109	L7-A07	Jun 28, 2023		Building Materials	S23-Jn0069950	X		
110	L7-A08	Jun 28, 2023		Building Materials	S23-Jn0069951	X		
111	L7-AD01	Jun 28, 2023		Dust	S23-Jn0069952	X		
112	L7-LD01	Jun 28, 2023		Dust	S23-Jn0069953		X	
113	L7-L01	Jun 28, 2023		Paint	S23-Jn0069954			X
114	L7-L02	Jun 28, 2023		Paint	S23-Jn0069955			X
115	L7-L03	Jun 28, 2023		Paint	S23-Jn0069956			X
116	L7-L04	Jun 28, 2023		Paint	S23-Jn0069957			X
117	L7-L05	Jun 28, 2023		Paint	S23-Jn0069958			X
118	L7-L06	Jun 28, 2023		Paint	S23-Jn0069959			X
119	L5-A12	Jun 28, 2023		Building	S23-Jn0069960	X		

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Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X
				Materials				
120	L5-A13	Jun 28, 2023		Building Materials	S23-Jn0069961	X		
121	L5-A14	Jun 28, 2023		Building Materials	S23-Jn0069962	X		
122	L5-A15	Jun 28, 2023		Building Materials	S23-Jn0069963	X		
123	L5-A16	Jun 28, 2023		Building Materials	S23-Jn0069964	X		
124	L5-A17	Jun 28, 2023		Building Materials	S23-Jn0069965	X		
125	L5-A18	Jun 28, 2023		Building Materials	S23-Jn0069966	X		
126	L5-A19	Jun 28, 2023		Building Materials	S23-Jn0069967	X		
127	L5-A20	Jun 28, 2023		Building Materials	S23-Jn0069968	X		
128	L5-A21	Jun 28, 2023		Building Materials	S23-Jn0069969	X		

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Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos Absence /Presence	Lead	Lead (% w/w)
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X
129	L5-A22	Jun 28, 2023		Building Materials	S23-Jn0069970	X		
130	L5-A23	Jun 28, 2023		Building Materials	S23-Jn0069971	X		
131	L5-A24	Jun 28, 2023		Building Materials	S23-Jn0069972	X		
132	L5-A25	Jun 28, 2023		Building Materials	S23-Jn0069973	X		
133	L5-AD03	Jun 28, 2023		Dust	S23-Jn0069974	X		
134	L5-LD03	Jun 28, 2023		Dust	S23-Jn0069975		X	
135	L5-L02	Jun 28, 2023		Paint	S23-Jn0069976			X
136	L5-L03	Jun 28, 2023		Paint	S23-Jn0069977			X
137	L5-L04	Jun 28, 2023		Paint	S23-Jn0069978			X
138	L5-L05	Jun 28, 2023		Paint	S23-Jn0069979			X
139	L5-L06	Jun 28, 2023		Paint	S23-Jn0069980			X
140	L5-L07	Jun 28, 2023		Paint	S23-Jn0069981			X
141	L6-A12	Jun 28, 2023		Building	S23-Jn0069982	X		

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Address: Level 1, 50 Margaret St
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Project Name: RPA HOSPITAL-MAIN BUILDING
Project ID: 63888

Order No.:
Report #: 1003655
Phone: 02 8245 0300
Fax:

Received: Jun 29, 2023 2:45 PM
Due: Jul 6, 2023
Priority: 5 Day
Contact Name: Stuart Lumsden

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos Absence /Presence	Lead	Lead (% w/w)
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X
				Materials				
142	L6-AD03	Jun 28, 2023		Dust	S23-Jn0069983	X		
143	L6-LD03	Jun 28, 2023		Dust	S23-Jn0069984		X	
144	L5-L01	Jun 28, 2023		Paint	S23-Jn0070191			X
Test Counts						101	11	32

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Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

mg/kg: milligrams per kilogram	**mg/L:** milligrams per litre	**µg/L:** micrograms per litre
ppm: parts per million	**ppb:** parts per billion	**%:** Percentage
org/100 mL: Organisms per 100 millilitres	**NTU:** Nephelometric Turbidity Units	**MPN/100 mL:** Most Probable Number of organisms per 100 millilitres
CFU: Colony forming unit		

Terms

APHA	American Public Health Association
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 5.4
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR: No Limit

Results between 10-20 times the LOR: RPD must lie between 0-50%

Results >20 times the LOR: RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank									
Lead (% w/w)			%	< 0.01			0.01	Pass	
Method Blank									
Heavy Metals									
Lead			mg/kg	< 5			5	Pass	
LCS - % Recovery									
Heavy Metals									
Lead			%	91			80-120	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Spike - % Recovery									
Heavy Metals				Result 1					
Lead	S23-Jl0003067	NCP	%	104			75-125	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Lead	S23-Jl0003066	NCP	mg/kg	10	10	2.0	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	N/A
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Authorised by:

Andrew Black	Analytical Services Manager
Fang Yee Tan	Senior Analyst-Metal
Laxman Dias	Senior Analyst-Asbestos
Mickael Ros	Senior Analyst-Metal

Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

CHAIN OF CUSTODY

page 1 of 1

JBS&G

PROJECT NO.: **63888**	LABORATORY BATCH NO.:
PROJECT NAME: **RPA HOSPITAL**	SAMPLERS: **Stuart Lumsden/Jordan Gomez**
DATE NEEDED BY: **STANDARD TAT**	QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) slumsden@jbsg.com.au; (3) jgomez@jbsg.com.au;

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

Sample to be sent separately from Sydney office

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	Ph	ASBESTOS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
L4-A27	MATERIAL	29/06/23		1 x bag		X			

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Stuart Lumsden DATE: 29/6/23 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C
NAME: DATE: OF:	CONSIGNMENT NOTE NO. TRANSPORT CO	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO Forms013 – Chain of Custody – Generic

#1003659

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Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Stuart Lumsden
Project name:	RPA HOSPITAL
Project ID:	63888
Turnaround time:	5 Day
Date/Time received	Jun 29, 2023 2:45 PM
Eurofins reference	1003659

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
N/A	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
✗	Split sample sent to requested external lab.
✗	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Andrew Black on phone : (+61) 2 9900 8490 or by email: AndrewBlack@eurofins.com

Results will be delivered electronically via email to Stuart Lumsden - slumsden@jbsg.com.au.

Global Leader - Results you can trust

Certificate of Analysis

Environment Testing

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025–Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention:	Stuart Lumsden
Report	1003659-AID
Project Name	RPA HOSPITAL
Project ID	63888
Received Date	Jun 29, 2023
Date Reported	Jul 07, 2023

Methodology:

Asbestos Fibre Identification	Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques. *NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.*
Unknown Mineral Fibres	Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity. *NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.*
Subsampling Soil Samples	The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed. *NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.*
Bonded asbestos-containing material (ACM)	The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination.The resultant material is then further examined in accordance with AS 4964 - 2004. *NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.*
Limit of Reporting	The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w). The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk). *NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos".This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.*

Project Name RPA HOSPITAL
Project ID 63888
Date Sampled Jun 29, 2023
Report 1003659-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
L4-A27	23-Jn0069990	Jun 29, 2023	Approximate Sample 2g / 90x55x1mm Sample consisted of: Brown woven material	No asbestos detected. Organic fibre detected. No trace asbestos detected.

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8020	Sydney	Jun 30, 2023	Indefinite

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Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West NSW 2304
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Tel: +61 3 8564 5000	Tel: +61 3 8564 5000	Tel: +61 2 9900 8400	Tel: +61 2 6113 8091	Tel: +61 7 3902 4600	NATA# 1261
NATA# 1261 Site# 1254	NATA# 1261 Site# 25403	NATA# 1261 Site# 18217	NATA# 1261 Site# 25466	NATA# 1261 Site# 20794	Site# 25079 & 25289

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: RPA HOSPITAL
Project ID: 63888

Order No.:
Report #: 1003659
Phone: 02 8245 0300
Fax:

Received: Jun 29, 2023 2:45 PM
Due: Jul 6, 2023
Priority: 5 Day
Contact Name: Stuart Lumsden

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos Absence /Presence
Sydney Laboratory - NATA # 1261 Site # 18217						X
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	L4-A27	Jun 29, 2023		Building Materials	S23-Jn0069990	X
Test Counts						1

Internal Quality Control Review and Glossary General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. Information identified on this report with the colour **blue** indicates data provided by customer that may have an impact on the results.
5. This report replaces any interim results previously issued.

Holding Times

Please refer to the most recent version of the 'Sample Preservation and Container Guide' for holding times (QS3001).
If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported. Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

Units

% w/w:	Percentage weight-for-weight basis, e.g. of asbestos in asbestos-containing finds in soil samples (**% w/w**)
F/fld	Airborne fibre filter loading as Fibres (**N**) per Fields counted (**n**)
F/mL	Airborne fibre reported concentration as Fibres per millilitre of air drawn over the sampler membrane (**C**)
g, kg	Mass, e.g. of whole sample (**M**) or asbestos-containing find within the sample (**m**)
g/kg	Concentration in grams per kilogram
L, mL	Volume, e.g. of air as measured in AFM (**V** = **r** x **t**)
L/min	Airborne fibre sampling Flowrate as litres per minute of air drawn over the sampler membrane (**r**)
min	Time (**t**), e.g. of air sample collection period

Calculations

Airborne Fibre Concentration: $C = \left(\frac{A}{a}\right) \times \left(\frac{N}{n}\right) \times \left(\frac{1}{r}\right) \times \left(\frac{1}{t}\right) = K \times \left(\frac{N}{n}\right) \times \left(\frac{1}{V}\right)$

Asbestos Content (as asbestos): $\%\, w/w = \frac{(m \times P_A)}{M}$

Weighted Average (of asbestos): $\%_{WA} = \sum \frac{(m \times P_A)_x}{x}$

Terms

%asbestos	Estimated percentage of asbestos in a given matrix. May be derived from knowledge or experience of the material, informed by HSG264 *Appendix 2*, else assumed to be 15% in accordance with WA DOH *Appendix 2* (**P_A**).
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded (non-friable) condition. For the purposes of the NEPM and WA DOH, ACM corresponds to material larger than 7 mm x 7 mm.
AF	Asbestos Fines. Asbestos contamination within a soil sample, as defined by WA DOH. Includes loose fibre bundles and small pieces of friable and non-friable material such as asbestos cement fragments mixed with soil. Considered under the NEPM as equivalent to “non-bonded / friable”.
AFM	Airborne Fibre Monitoring, e.g. by the MFM.
Amosite	Amosite Asbestos Detected. Amosite may also refer to Fibrous Grunerite or Brown Asbestos. Identified in accordance with AS 4964-2004.
AS	Australian Standard.
Asbestos Content (as asbestos)	Total % w/w asbestos content in asbestos-containing finds in a soil sample (**% w/w)**.
Chrysotile	Chrysotile Asbestos Detected. Chrysotile may also refer to Fibrous Serpentine or White Asbestos. Identified in accordance with AS 4964-2004.
COC	Chain of Custody.
Crocidolite	Crocidolite Asbestos Detected. Crocidolite may also refer to Fibrous Riebeckite or Blue Asbestos. Identified in accordance with AS 4964-2004.
Dry	Sample is dried by heating prior to analysis.
DS	Dispersion Staining. Technique required for Unequivocal Identification of asbestos fibres by PLM.
FA	Fibrous Asbestos. Asbestos containing material that is wholly or in part friable, including materials with higher asbestos content with a propensity to become friable with handling, and any material that was previously non-friable and in a severely degraded condition. For the purposes of the NEPM and WA DOH, FA generally corresponds to material larger than 7 mm x 7 mm, although FA may be more difficult to visibly distinguish and may be assessed as AF.
Fibre Count	Total of all fibres (whether asbestos or not) meeting the counting criteria set out in the NOHSC:3003
Fibre ID	Fibre Identification. Unequivocal identification of asbestos fibres according to AS 4964-2004. Includes Chrysotile, Amosite (Grunerite) or Crocidolite asbestos.
Friable	Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory’s remit to assess degree of friability.
HSG248	UK HSE HSG248, *Asbestos: The Analysts Guide*, 2nd Edition (2021).
HSG264	UK HSE HSG264, *Asbestos: The Survey Guide* (2012).
ISO (also ISO/IEC)	International Organization for Standardization / International Electrotechnical Commission.
K Factor	Microscope constant (**K**) as derived from the effective filter area of the given AFM membrane used for collecting the sample (**A**) and the projected eyepiece graticule area of the specific microscope used for the analysis (**a**).
LOR	Limit of Reporting.
MFM (also NOHSC:3003)	Membrane Filter Method. As described by the Australian Government National Occupational Health and Safety Commission, *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres*, 2nd Edition [NOHSC:3003(2005)].
NEPM (also ASC NEPM)	National Environment Protection (Assessment of Site Contamination) Measure, (2013, as amended).
Organic	Organic Fibres Detected. Organic may refer to Natural or Man-Made Polymeric Fibres. Identified in accordance with AS 4964-2004.
PCM	Phase Contrast Microscopy. As used for Fibre Counting according to the MFM.
PLM	Polarised Light Microscopy. As used for Fibre Identification and Trace Analysis according to AS 4964-2004.
Sampling	Unless otherwise stated Eurofins are not responsible for sampling equipment or the sampling process.
SMF	Synthetic Mineral Fibre Detected. SMF may also refer to Man Made Vitreous Fibres. Identified in accordance with AS 4964-2004.
SRA	Sample Receipt Advice.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres (particularly asbestos) in a given sample matrix.
UK HSE HSG	United Kingdom, Health and Safety Executive, Health and Safety Guidance, publication.
UMF	Unidentified Mineral Fibre Detected. Fibrous minerals that are detected but have not been unequivocally identified by PLM with DS according the AS 4964-2004. May include (but not limited to) Actinolite, Anthophyllite or Tremolite asbestos.
WA DOH	Reference document for the NEPM. Government of Western Australia, *Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia* (updated 2021), including Appendix Four: *Laboratory analysis*
Weighted Average	Combined average % w/w asbestos content of all asbestos-containing finds in the given aliquot or total soil sample (**$\%_{WA}$**).

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	N/A
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Asbestos Counter/Identifier:

Bennel Jiri	Senior Analyst-Asbestos

Authorised by:

Sayeed Abu	Senior Analyst-Asbestos

Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: **63888**	LABORATORY BATCH NO.:
PROJECT NAME: **RPA HOSPITAL – EXTERNAL BUILDINGS**	SAMPLERS: **Stuart Lumsden/Jordan Gomez**
DATE NEEDED BY: **STANDARD TAT**	QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; **(2)** slumsden@jbsg.com.au; **(3)** jgomez@jbsg.com.au;

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	Ph	ASBESTOS	LEAD	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
B94-A01	Material	28/6/23		1 x bag		X				
B94-A02	Material	28/6/23		1 x bag		X				
B94-A03	Material	28/6/23		1 x bag		X				
B94-A04	Material	28/6/23		1 x bag		X				
B94-A05	Material	28/6/23		1 x bag		X				
B94-A06	Material	28/6/23		1 x bag		X				
B94-A07	Material	28/6/23		1 x bag		X				
B94-A08	Material	28/6/23		1 x bag		X				
B94-A09	Material	28/6/23		1 x bag		X				
B94-A10	Material	28/6/23		1 x bag		X				
B94-A11	Material	28/6/23		1 x bag		X				
B94-A12	Material	28/6/23		1 x bag		X				
B94-AD01	Dust	28/6/23		1 x bag		X				
B94-LD01	Dust	28/6/23		1 x bag			X			
B94-L01	Paint	28/6/23		1 x bag			X			
B94-L02	Paint	28/6/23		1 x bag			X			
B94-L03	Paint	28/6/23		1 x bag			X			
B94-L04	Paint	28/6/23		1 x bag			X			
B94-L05	Paint	28/6/23		1 x bag			X			

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Stuart Lumsden DATE: 29/6/23	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ....., Broken .....
OF: JBS&G	TRANSPORT CO.	OF:	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ....., Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO Forms013 – Chain of Custody – Generic

#1003663

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: **63888**	LABORATORY BATCH NO.:
PROJECT NAME: **RPA HOSPITAL – EXTERNAL BUILDINGS**	SAMPLERS: **Stuart Lumsden/Jordan Gomez**
DATE NEEDED BY: **STANDARD TAT**	QC LEVEL: NEPM (2013)
PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688	
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) slumsden@jbsg.com.au; (3) jgomez@jbsg.com.au;	

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	Ph	ASBESTOS	LEAD	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
B94-L06	Paint	28/6/23		1 x bag			X			
B95-A01	Material	28/6/23		1 x bag		X				
B95-A02	Material	28/6/23		1 x bag		X				
B95-A03	Material	28/6/23		1 x bag		X				
B95-A04	Material	28/6/23		1 x bag		X				
B95-A05	Material	28/6/23		1 x bag		X				
B95-A06	Material	28/6/23		1 x bag		X				
B95-A07	Material	28/6/23		1 x bag		X				
B95-A08	Material	28/6/23		1 x bag		X				
B95-A09	Material	28/6/23		1 x bag		X				
B95-A10	Material	28/6/23		1 x bag		X				
B95-AD01	Dust	28/6/23		1 x bag		X				
B95-LD01	Dust	28/6/23		1 x bag			X			
B95-L01	Paint	28/6/23		1 x bag			X			
B95-L02	Paint	28/6/23		1 x bag			X			
B95-L03	Paint	28/6/23		1 x bag			X			
B95-L04	Paint	28/6/23		1 x bag			X			
B95-L05	Paint	28/6/23		1 x bag			X			
B95-L06	Paint	28/6/23		1 x bag			X			

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Stuart Lumsden DATE: 29/6/23 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C
NAME: DATE: OF:	CONSIGNMENT NOTE NO. TRANSPORT CO	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: **63888**

PROJECT NAME: **RPA HOSPITAL – EXTERNAL BUILDINGS**

DATE NEEDED BY: **STANDARD TAT**

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

LABORATORY BATCH NO.:

SAMPLERS: **Stuart Lumsden/Jordan Gomez**

QC LEVEL: NEPM (2013)

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) slumsden@jbsg.com.au; (3) jgomez@jbsg.com.au;

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	Ph	ASBESTOS	LEAD	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
B95-L07	Paint	28/6/23		1 x bag			X			
GH-A01	Material	28/6/23		1 x bag		X				
GH-A02	Material	28/6/23		1 x bag		X				
GH-A03	Material	28/6/23		1 x bag		X				
GH-A04	Material	28/6/23		1 x bag		X				
GH-L01	Paint	28/6/23		1 x bag			X			
GH-L02	Paint	28/6/23		1 x bag			X			
B28-A01	Material	28/6/23		1 x bag		X				
B28-A02	Material	28/6/23		1 x bag		X				
B28-A03	Material	28/6/23		1 x bag		X				
B28-A04	Material	28/6/23		1 x bag		X				
B28-L01	Paint	28/6/23		1 x bag			X			

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Stuart Lumsden DATE: 29/6/23 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C
NAME: DATE: OF:	CONSIGNMENT NOTE NO. TRANSPORT CO	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody – Generic

1003663

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Tel: +64 3 343 5201
IANZ# 1290

Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Stuart Lumsden
Project name:	RPA HOSPITA-EXTERNAL BUILDING
Project ID:	63888
Turnaround time:	5 Day
Date/Time received	Jun 29, 2023 2:45 PM
Eurofins reference	1003663

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
N/A	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
✗	Split sample sent to requested external lab.
✗	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Andrew Black on phone : (+61) 2 9900 8490 or by email: AndrewBlack@eurofins.com

Results will be delivered electronically via email to Stuart Lumsden - slumsden@jbsg.com.au.

Global Leader - Results you can trust

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025–Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention:	Stuart Lumsden
Report	1003663-AID
Project Name	RPA HOSPITA-EXTERNAL BUILDING
Project ID	63888
Received Date	Jun 29, 2023
Date Reported	Jul 06, 2023

Methodology:

Asbestos Fibre Identification	Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques. *NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.*
Unknown Mineral Fibres	Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity. *NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.*
Subsampling Soil Samples	The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed. *NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.*
Bonded asbestos-containing material (ACM)	The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination.The resultant material is then further examined in accordance with AS 4964 - 2004. *NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.*
Limit of Reporting	The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w). The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk). *NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos".This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.*

Project Name RPA HOSPITA-EXTERNAL BUILDING
Project ID 63888
Date Sampled Jun 28, 2023
Report 1003663-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
B94-A01	23-Jn0069998	Jun 28, 2023	Approximate Sample 6g / 35x10x5mm Sample consisted of: Yellow mastic material	No asbestos detected. No trace asbestos detected.
B94-A02	23-Jn0069999	Jun 28, 2023	Approximate Sample <1g / 10x7x2mm Sample consisted of: Grey mastic material	Chrysotile asbestos detected.
B94-A03	23-Jn0070000	Jun 28, 2023	Approximate Sample 10g / 35x20x3mm Sample consisted of: Yellow mastic material	No asbestos detected. No trace asbestos detected.
B94-A04	23-Jn0070001	Jun 28, 2023	Approximate Sample 8g / 30x25x10mm Sample consisted of: Grey hard cement fragments	No asbestos detected. No trace asbestos detected.
B94-A05	23-Jn0070002	Jun 28, 2023	Approximate Sample 3g / 30x20x5mm Sample consisted of: Grey layered fibre cement material	No asbestos detected. Organic fibre detected. No trace asbestos detected.
B94-A06	23-Jn0070003	Jun 28, 2023	Approximate Sample 27g / 70x30x5mm Sample consisted of: Brown fibre plaster cement material	No asbestos detected. Organic fibre detected. No trace asbestos detected.
B94-A07	23-Jn0070004	Jun 28, 2023	Approximate Sample 2g / 30x20x5mm Sample consisted of: Brown mastic material	No asbestos detected. No trace asbestos detected.
B94-A08	23-Jn0070005	Jun 28, 2023	Approximate Sample 3g / 30x15x10mm Sample consisted of: Brown mastic material	No asbestos detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
B94-A09	23-Jn0070006	Jun 28, 2023	Approximate Sample 3g / 40x20x5mm Sample consisted of: Brown fibre plaster cement material	No asbestos detected. Organic fibre detected. No trace asbestos detected.
B94-A10	23-Jn0070007	Jun 28, 2023	Approximate Sample 2g / 70x20x2mm Sample consisted of: Light blue flexible vinyl sheet, amber glue and bituminous material attached	No asbestos detected. No trace asbestos detected.
B94-A11	23-Jn0070008	Jun 28, 2023	Approximate Sample 2g / 50x25x2mm Sample consisted of: Black flexible linoleum and amber glue	No asbestos detected. Synthetic mineral fibre detected. No trace asbestos detected.
B94-A12	23-Jn0070009	Jun 28, 2023	Approximate Sample <1g / 12x8x2mm Sample consisted of: Brown fibre plaster material and white coating	No asbestos detected. Organic fibre detected. No trace asbestos detected.
B94-AD01	23-Jn0070010	Jun 28, 2023	Approximate Sample 10g Sample consisted of: Brown dust particles, fragments of soft fibrous material, paint flakes, cement, plant residue and organic debris	No asbestos detected at the reporting limit of 0.01% w/w. Synthetic mineral fibre detected. Organic fibre detected. No trace asbestos detected.
B95-A01	23-Jn0070018	Jun 28, 2023	Approximate Sample 3g / 35x15x5mm Sample consisted of: Grey fibre cement material	Chrysotile asbestos detected.
B95-A02	23-Jn0070019	Jun 28, 2023	Approximate Sample 3g / 30x20x5mm Sample consisted of: Black woven fibrous matrix covered with bitumin	No asbestos detected. Synthetic mineral fibre detected. No trace asbestos detected.
B95-A03	23-Jn0070020	Jun 28, 2023	Approximate Sample 3g / 70x60x3mm Sample consisted of: Black fibro- bituminous material	Chrysotile asbestos detected.
B95-A04	23-Jn0070021	Jun 28, 2023	Approximate Sample <1g / 7x5x3mm Sample consisted of: Off-white mastic material	No asbestos detected. No trace asbestos detected.
B95-A05	23-Jn0070022	Jun 28, 2023	Approximate Sample 2g / 25x15x5mm Sample consisted of: Grey fibre cement material	Chrysotile, amosite and crocidolite asbestos detected.
B95-A06	23-Jn0070023	Jun 28, 2023	Approximate Sample 1g / 15x10x5mm Sample consisted of: Off-white sealant and adhesive material	No asbestos detected. No trace asbestos detected.
B95-A07	23-Jn0070024	Jun 28, 2023	Approximate Sample 4g / 30x15x10mm Sample consisted of: Grey mastic material with brown coating	No asbestos detected. No trace asbestos detected.
B95-A08	23-Jn0070025	Jun 28, 2023	Approximate Sample 2g / 60x30x2mm Sample consisted of: Off-white flexible vinyl sheet and amber glue	No asbestos detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
B95-A09	23-Jn0070026	Jun 28, 2023	Approximate Sample 2g / 40x15x3mm Sample consisted of: Grey hard cement material with amber glue	No asbestos detected. No trace asbestos detected.
B95-A10	23-Jn0070027	Jun 28, 2023	Approximate Sample 1g / 20x15x3mm Sample consisted of: Black bituminous material	No asbestos detected. No trace asbestos detected.
B95-AD01	23-Jn0070028	Jun 28, 2023	Approximate Sample 16g Sample consisted of: Brown dust particles, fragments of soft fibrous material, compressed fibrous material, plaster, paint flakes, plant residue and organic debris	No asbestos detected at the reporting limit of 0.01% w/w. Synthetic mineral fibre detected. Organic fibre detected. No trace asbestos detected.
GH-A01	23-Jn0070037	Jun 28, 2023	Approximate Sample 4g / 25x10x4mm Sample consisted of: Yellow mastic material	No asbestos detected. No trace asbestos detected.
GH-A02	23-Jn0070038	Jun 28, 2023	Approximate Sample 2g / 20x15x3mm Sample consisted of: Grey fibre cement material	Chrysotile asbestos detected.
GH-A03	23-Jn0070039	Jun 28, 2023	Approximate Sample 11g / 70x20x5mm Sample consisted of: Blue semi brittle vinyl sheet , glue and cement attached	No asbestos detected. Synthetic mineral fibre detected. No trace asbestos detected.
GH-A04	23-Jn0070040	Jun 28, 2023	Approximate Sample 4g / 40x20x3mm Sample consisted of: Grey fibre cement material	Chrysotile asbestos detected.
B28-A01	23-Jn0070043	Jun 28, 2023	Approximate Sample 56g / 90x30x5mm Sample consisted of: Grey compressed fibre cement material	Chrysotile asbestos detected.
B28-A02	23-Jn0070044	Jun 28, 2023	Approximate Sample 25g / 50x30x7mm Sample consisted of: Grey fibre cement material	Chrysotile and amosite asbestos detected.
B28-A03	23-Jn0070045	Jun 28, 2023	Approximate Sample 22g / 110x35x2mm Sample consisted of: Grey brittle vinyl tile material	Chrysotile asbestos detected.
B28-A04	23-Jn0070046	Jun 28, 2023	Approximate Sample 1g / 30x5x5mm Sample consisted of: Pieces of rope	Chrysotile asbestos detected.

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8020	Sydney	Jul 06, 2023	Indefinite
Asbestos - LTM-ASB-8020	Sydney	Jul 06, 2023	Indefinite

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NATA# 1261 Site# 25403

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NATA# 1261 Site# 18217

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: RPA HOSPITA-EXTERNAL BUILDING
Project ID: 63888

Order No.:
Report #: 1003663
Phone: 02 8245 0300
Fax:

Received: Jun 29, 2023 2:45 PM
Due: Jul 6, 2023
Priority: 5 Day
Contact Name: Stuart Lumsden

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - AS4964	Asbestos Absence /Presence	Lead	Lead (% w/w)
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X
External Laboratory									
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**				
1	B94-A01	Jun 28, 2023		Building Materials	S23-Jn0069998		X		
2	B94-A02	Jun 28, 2023		Building Materials	S23-Jn0069999		X		
3	B94-A03	Jun 28, 2023		Building Materials	S23-Jn0070000		X		
4	B94-A04	Jun 28, 2023		Building Materials	S23-Jn0070001		X		
5	B94-A05	Jun 28, 2023		Building Materials	S23-Jn0070002		X		
6	B94-A06	Jun 28, 2023		Building Materials	S23-Jn0070003		X		
7	B94-A07	Jun 28, 2023		Building Materials	S23-Jn0070004		X		
8	B94-A08	Jun 28, 2023		Building Materials	S23-Jn0070005		X		

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
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NSW 2000

Project Name: RPA HOSPITA-EXTERNAL BUILDING
Project ID: 63888

Order No.:
Report #: 1003663
Phone: 02 8245 0300
Fax:

Received: Jun 29, 2023 2:45 PM
Due: Jul 6, 2023
Priority: 5 Day
Contact Name: Stuart Lumsden

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - AS4964	Asbestos Absence /Presence	Lead	Lead (% w/w)
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X
9	B94-A09	Jun 28, 2023		Building Materials	S23-Jn0070006		X		
10	B94-A10	Jun 28, 2023		Building Materials	S23-Jn0070007		X		
11	B94-A11	Jun 28, 2023		Building Materials	S23-Jn0070008		X		
12	B94-A12	Jun 28, 2023		Building Materials	S23-Jn0070009		X		
13	B94-AD01	Jun 28, 2023		Dust	S23-Jn0070010	X			
14	B94-LD01	Jun 28, 2023		Dust	S23-Jn0070011			X	
15	B94-L01	Jun 28, 2023		Paint	S23-Jn0070012				X
16	B94-L02	Jun 28, 2023		Paint	S23-Jn0070013				X
17	B94-L03	Jun 28, 2023		Paint	S23-Jn0070014				X
18	B94-L04	Jun 28, 2023		Paint	S23-Jn0070015				X
19	B94-L05	Jun 28, 2023		Paint	S23-Jn0070016				X
20	B94-L06	Jun 28, 2023		Paint	S23-Jn0070017				X
21	B95-A01	Jun 28, 2023		Building	S23-Jn0070018		X		

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Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - AS4964	Asbestos Absence /Presence	Lead	Lead (% w/w)
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X
				Materials					
22	B95-A02	Jun 28, 2023		Building Materials	S23-Jn0070019		X		
23	B95-A03	Jun 28, 2023		Building Materials	S23-Jn0070020		X		
24	B95-A04	Jun 28, 2023		Building Materials	S23-Jn0070021		X		
25	B95-A05	Jun 28, 2023		Building Materials	S23-Jn0070022		X		
26	B95-A06	Jun 28, 2023		Building Materials	S23-Jn0070023		X		
27	B95-A07	Jun 28, 2023		Building Materials	S23-Jn0070024		X		
28	B95-A08	Jun 28, 2023		Building Materials	S23-Jn0070025		X		
29	B95-A09	Jun 28, 2023		Building Materials	S23-Jn0070026		X		
30	B95-A10	Jun 28, 2023		Building Materials	S23-Jn0070027		X		

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Sample Detail						Asbestos - AS4964	Asbestos Absence /Presence	Lead	Lead (% w/w)
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X
31	B95-AD01	Jun 28, 2023		Dust	S23-Jn0070028	X			
32	B95-LD01	Jun 28, 2023		Dust	S23-Jn0070029			X	
33	B95-L01	Jun 28, 2023		Paint	S23-Jn0070030				X
34	B95-L02	Jun 28, 2023		Paint	S23-Jn0070031				X
35	B95-L03	Jun 28, 2023		Paint	S23-Jn0070032				X
36	B95-L04	Jun 28, 2023		Paint	S23-Jn0070033				X
37	B95-L05	Jun 28, 2023		Paint	S23-Jn0070034				X
38	B95-L06	Jun 28, 2023		Paint	S23-Jn0070035				X
39	B95-L07	Jun 28, 2023		Paint	S23-Jn0070036				X
40	GH-A01	Jun 28, 2023		Building Materials	S23-Jn0070037		X		
41	GH-A02	Jun 28, 2023		Building Materials	S23-Jn0070038		X		
42	GH-A03	Jun 28, 2023		Building Materials	S23-Jn0070039		X		
43	GH-A04	Jun 28, 2023		Building Materials	S23-Jn0070040		X		

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Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - AS4964	Asbestos Absence /Presence	Lead	Lead (% w/w)
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X
44	GH-L01	Jun 28, 2023		Paint	S23-Jn0070041				X
45	GH-L02	Jun 28, 2023		Paint	S23-Jn0070042				X
46	B28-A01	Jun 28, 2023		Building Materials	S23-Jn0070043		X		
47	B28-A02	Jun 28, 2023		Building Materials	S23-Jn0070044		X		
48	B28-A03	Jun 28, 2023		Building Materials	S23-Jn0070045		X		
49	B28-A04	Jun 28, 2023		Building Materials	S23-Jn0070046		X		
50	B28-L01	Jun 29, 2023		Paint	S23-Jn0070047				X
Test Counts						2	30	2	16

Internal Quality Control Review and Glossary General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. Information identified on this report with the colour **blue** indicates data provided by customer that may have an impact on the results.
5. This report replaces any interim results previously issued.

Holding Times

Please refer to the most recent version of the 'Sample Preservation and Container Guide' for holding times (QS3001).
If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported. Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

Units

% w/w:	Percentage weight-for-weight basis, e.g. of asbestos in asbestos-containing finds in soil samples (**% w/w**)
F/fld	Airborne fibre filter loading as Fibres (**N**) per Fields counted (**n**)
F/mL	Airborne fibre reported concentration as Fibres per millilitre of air drawn over the sampler membrane (**C**)
g, kg	Mass, e.g. of whole sample (**M**) or asbestos-containing find within the sample (**m**)
g/kg	Concentration in grams per kilogram
L, mL	Volume, e.g. of air as measured in AFM (**V** = **r** x **t**)
L/min	Airborne fibre sampling Flowrate as litres per minute of air drawn over the sampler membrane (**r**)
min	Time (**t**), e.g. of air sample collection period

Calculations

Airborne Fibre Concentration: $C = \left(\frac{A}{a}\right) \times \left(\frac{N}{n}\right) \times \left(\frac{1}{r}\right) \times \left(\frac{1}{t}\right) = K \times \left(\frac{N}{n}\right) \times \left(\frac{1}{V}\right)$

Asbestos Content (as asbestos): $\%\, w/w = \frac{(m \times P_A)}{M}$

Weighted Average (of asbestos): $\%_{WA} = \sum \frac{(m \times P_A)_x}{x}$

Terms

%asbestos	Estimated percentage of asbestos in a given matrix. May be derived from knowledge or experience of the material, informed by HSG264 *Appendix 2*, else assumed to be 15% in accordance with WA DOH *Appendix 2* (**P_A**).
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded (non-friable) condition. For the purposes of the NEPM and WA DOH, ACM corresponds to material larger than 7 mm x 7 mm.
AF	Asbestos Fines. Asbestos contamination within a soil sample, as defined by WA DOH. Includes loose fibre bundles and small pieces of friable and non-friable material such as asbestos cement fragments mixed with soil. Considered under the NEPM as equivalent to “non-bonded / friable”.
AFM	Airborne Fibre Monitoring, e.g. by the MFM.
Amosite	Amosite Asbestos Detected. Amosite may also refer to Fibrous Grunerite or Brown Asbestos. Identified in accordance with AS 4964-2004.
AS	Australian Standard.
Asbestos Content (as asbestos)	Total % w/w asbestos content in asbestos-containing finds in a soil sample (**% w/w)**.
Chrysotile	Chrysotile Asbestos Detected. Chrysotile may also refer to Fibrous Serpentine or White Asbestos. Identified in accordance with AS 4964-2004.
COC	Chain of Custody.
Crocidolite	Crocidolite Asbestos Detected. Crocidolite may also refer to Fibrous Riebeckite or Blue Asbestos. Identified in accordance with AS 4964-2004.
Dry	Sample is dried by heating prior to analysis.
DS	Dispersion Staining. Technique required for Unequivocal Identification of asbestos fibres by PLM.
FA	Fibrous Asbestos. Asbestos containing material that is wholly or in part friable, including materials with higher asbestos content with a propensity to become friable with handling, and any material that was previously non-friable and in a severely degraded condition. For the purposes of the NEPM and WA DOH, FA generally corresponds to material larger than 7 mm x 7 mm, although FA may be more difficult to visibly distinguish and may be assessed as AF.
Fibre Count	Total of all fibres (whether asbestos or not) meeting the counting criteria set out in the NOHSC:3003
Fibre ID	Fibre Identification. Unequivocal identification of asbestos fibres according to AS 4964-2004. Includes Chrysotile, Amosite (Grunerite) or Crocidolite asbestos.
Friable	Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory’s remit to assess degree of friability.
HSG248	UK HSE HSG248, *Asbestos: The Analysts Guide*, 2nd Edition (2021).
HSG264	UK HSE HSG264, *Asbestos: The Survey Guide* (2012).
ISO (also ISO/IEC)	International Organization for Standardization / International Electrotechnical Commission.
K Factor	Microscope constant (**K**) as derived from the effective filter area of the given AFM membrane used for collecting the sample (**A**) and the projected eyepiece graticule area of the specific microscope used for the analysis (**a**).
LOR	Limit of Reporting.
MFM (also NOHSC:3003)	Membrane Filter Method. As described by the Australian Government National Occupational Health and Safety Commission, *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres*, 2nd Edition [NOHSC:3003(2005)].
NEPM (also ASC NEPM)	National Environment Protection (Assessment of Site Contamination) Measure, (2013, as amended).
Organic	Organic Fibres Detected. Organic may refer to Natural or Man-Made Polymeric Fibres. Identified in accordance with AS 4964-2004.
PCM	Phase Contrast Microscopy. As used for Fibre Counting according to the MFM.
PLM	Polarised Light Microscopy. As used for Fibre Identification and Trace Analysis according to AS 4964-2004.
Sampling	Unless otherwise stated Eurofins are not responsible for sampling equipment or the sampling process.
SMF	Synthetic Mineral Fibre Detected. SMF may also refer to Man Made Vitreous Fibres. Identified in accordance with AS 4964-2004.
SRA	Sample Receipt Advice.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres (particularly asbestos) in a given sample matrix.
UK HSE HSG	United Kingdom, Health and Safety Executive, Health and Safety Guidance, publication.
UMF	Unidentified Mineral Fibre Detected. Fibrous minerals that are detected but have not been unequivocally identified by PLM with DS according the AS 4964-2004. May include (but not limited to) Actinolite, Anthophyllite or Tremolite asbestos.
WA DOH	Reference document for the NEPM. Government of Western Australia, *Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia* (updated 2021), including Appendix Four: *Laboratory analysis*
Weighted Average	Combined average % w/w asbestos content of all asbestos-containing finds in the given aliquot or total soil sample (**$\%_{WA}$**).

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	N/A
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Asbestos Counter/Identifier:

Chamath JHM Annakkage	Senior Analyst-Asbestos

Authorised by:

Sayeed Abu	Senior Analyst-Asbestos

Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

JBS & G Australia (NSW) P/L
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NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: **Stuart Lumsden**

Report **1003663-S**
Project name RPA HOSPITA-EXTERNAL BUILDING
Project ID 63888
Received Date Jun 29, 2023

Client Sample ID			**B94-LD01**	**B94-L01**	**B94-L02**	**B94-L03**
Sample Matrix			**Dust**	**Paint**	**Paint**	**Paint**
Eurofins Sample No.			**S23-Jn0070011**	**S23-Jn0070012**	**S23-Jn0070013**	**S23-Jn0070014**
Date Sampled			**Jun 28, 2023**	**Jun 28, 2023**	**Jun 28, 2023**	**Jun 28, 2023**
Test/Reference	LOR	Unit				
Heavy Metals						
Lead	5	mg/kg	300	-	-	-
Lead (% w/w)	0.01	%	-	13	< 0.01	11

Client Sample ID			**B94-L04**	**B94-L05**	**B94-L06**	**B95-LD01**
Sample Matrix			**Paint**	**Paint**	**Paint**	**Dust**
Eurofins Sample No.			**S23-Jn0070015**	**S23-Jn0070016**	**S23-Jn0070017**	**S23-Jn0070029**
Date Sampled			**Jun 28, 2023**	**Jun 28, 2023**	**Jun 28, 2023**	**Jun 28, 2023**
Test/Reference	LOR	Unit				
Heavy Metals						
Lead	5	mg/kg	-	-	-	850
Lead (% w/w)	0.01	%	0.59	7.9	3.5	-

Client Sample ID			**B95-L01**	**B95-L02**	**B95-L03**	**B95-L04**
Sample Matrix			**Paint**	**Paint**	**Paint**	**Paint**
Eurofins Sample No.			**S23-Jn0070030**	**S23-Jn0070031**	**S23-Jn0070032**	**S23-Jn0070033**
Date Sampled			**Jun 28, 2023**	**Jun 28, 2023**	**Jun 28, 2023**	**Jun 28, 2023**
Test/Reference	LOR	Unit				
Lead (% w/w)	0.01	%	34	24	13	0.01

Client Sample ID			B95-L05	B95-L06	B95-L07	GH-L01
Sample Matrix			Paint	Paint	Paint	Paint
Eurofins Sample No.			S23-Jn0070034	S23-Jn0070035	S23-Jn0070036	S23-Jn0070041
Date Sampled			Jun 28, 2023	Jun 28, 2023	Jun 28, 2023	Jun 28, 2023
Test/Reference	LOR	Unit				
Lead (% w/w)	0.01	%	5.2	0.06	0.12	< 0.01

Client Sample ID			GH-L02	B28-L01
Sample Matrix			Paint	Paint
Eurofins Sample No.			S23-Jn0070042	S23-Jn0070047
Date Sampled			Jun 28, 2023	Jun 29, 2023
Test/Reference	LOR	Unit		
Lead (% w/w)	0.01	%	0.09	0.84

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Heavy Metals	Sydney	Jun 30, 2023	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Lead (% w/w)	Sydney	Jun 30, 2023	6 Months
- Method: LTM-MET-3040 Metals in Waters Soils & Sediments by ICP-MS			

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Sample Detail						Asbestos Absence /Presence	Lead	Lead (% w/w)
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X
External Laboratory								
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**			
1	B94-A01	Jun 28, 2023		Building Materials	S23-Jn0069998	X		
2	B94-A02	Jun 28, 2023		Building Materials	S23-Jn0069999	X		
3	B94-A03	Jun 28, 2023		Building Materials	S23-Jn0070000	X		
4	B94-A04	Jun 28, 2023		Building Materials	S23-Jn0070001	X		
5	B94-A05	Jun 28, 2023		Building Materials	S23-Jn0070002	X		
6	B94-A06	Jun 28, 2023		Building Materials	S23-Jn0070003	X		
7	B94-A07	Jun 28, 2023		Building Materials	S23-Jn0070004	X		
8	B94-A08	Jun 28, 2023		Building Materials	S23-Jn0070005	X		

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IANZ# 1290

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: RPA HOSPITA-EXTERNAL BUILDING
Project ID: 63888

Order No.:
Report #: 1003663
Phone: 02 8245 0300
Fax:

Received: Jun 29, 2023 2:45 PM
Due: Jul 6, 2023
Priority: 5 Day
Contact Name: Stuart Lumsden

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos Absence /Presence	Lead	Lead (% w/w)
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X
9	B94-A09	Jun 28, 2023		Building Materials	S23-Jn0070006	X		
10	B94-A10	Jun 28, 2023		Building Materials	S23-Jn0070007	X		
11	B94-A11	Jun 28, 2023		Building Materials	S23-Jn0070008	X		
12	B94-A12	Jun 28, 2023		Building Materials	S23-Jn0070009	X		
13	B94-AD01	Jun 28, 2023		Dust	S23-Jn0070010	X		
14	B94-LD01	Jun 28, 2023		Dust	S23-Jn0070011		X	
15	B94-L01	Jun 28, 2023		Paint	S23-Jn0070012			X
16	B94-L02	Jun 28, 2023		Paint	S23-Jn0070013			X
17	B94-L03	Jun 28, 2023		Paint	S23-Jn0070014			X
18	B94-L04	Jun 28, 2023		Paint	S23-Jn0070015			X
19	B94-L05	Jun 28, 2023		Paint	S23-Jn0070016			X
20	B94-L06	Jun 28, 2023		Paint	S23-Jn0070017			X
21	B95-A01	Jun 28, 2023		Building	S23-Jn0070018	X		

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NSW 2000

Project Name: RPA HOSPITA-EXTERNAL BUILDING
Project ID: 63888

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Phone: 02 8245 0300
Fax:

Received: Jun 29, 2023 2:45 PM
Due: Jul 6, 2023
Priority: 5 Day
Contact Name: Stuart Lumsden

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos Absence /Presence	Lead	Lead (% w/w)
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X
				Materials				
22	B95-A02	Jun 28, 2023		Building Materials	S23-Jn0070019	X		
23	B95-A03	Jun 28, 2023		Building Materials	S23-Jn0070020	X		
24	B95-A04	Jun 28, 2023		Building Materials	S23-Jn0070021	X		
25	B95-A05	Jun 28, 2023		Building Materials	S23-Jn0070022	X		
26	B95-A06	Jun 28, 2023		Building Materials	S23-Jn0070023	X		
27	B95-A07	Jun 28, 2023		Building Materials	S23-Jn0070024	X		
28	B95-A08	Jun 28, 2023		Building Materials	S23-Jn0070025	X		
29	B95-A09	Jun 28, 2023		Building Materials	S23-Jn0070026	X		
30	B95-A10	Jun 28, 2023		Building Materials	S23-Jn0070027	X		

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Project Name: RPA HOSPITA-EXTERNAL BUILDING
Project ID: 63888

Order No.:
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Received: Jun 29, 2023 2:45 PM
Due: Jul 6, 2023
Priority: 5 Day
Contact Name: Stuart Lumsden

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos Absence /Presence	Lead	Lead (% w/w)
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X
31	B95-AD01	Jun 28, 2023		Dust	S23-Jn0070028	X		
32	B95-LD01	Jun 28, 2023		Dust	S23-Jn0070029		X	
33	B95-L01	Jun 28, 2023		Paint	S23-Jn0070030			X
34	B95-L02	Jun 28, 2023		Paint	S23-Jn0070031			X
35	B95-L03	Jun 28, 2023		Paint	S23-Jn0070032			X
36	B95-L04	Jun 28, 2023		Paint	S23-Jn0070033			X
37	B95-L05	Jun 28, 2023		Paint	S23-Jn0070034			X
38	B95-L06	Jun 28, 2023		Paint	S23-Jn0070035			X
39	B95-L07	Jun 28, 2023		Paint	S23-Jn0070036			X
40	GH-A01	Jun 28, 2023		Building Materials	S23-Jn0070037	X		
41	GH-A02	Jun 28, 2023		Building Materials	S23-Jn0070038	X		
42	GH-A03	Jun 28, 2023		Building Materials	S23-Jn0070039	X		
43	GH-A04	Jun 28, 2023		Building Materials	S23-Jn0070040	X		

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Project Name: RPA HOSPITA-EXTERNAL BUILDING
Project ID: 63888

Order No.:
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Received: Jun 29, 2023 2:45 PM
Due: Jul 6, 2023
Priority: 5 Day
Contact Name: Stuart Lumsden

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos Absence /Presence	Lead	Lead (% w/w)
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X
44	GH-L01	Jun 28, 2023		Paint	S23-Jn0070041			X
45	GH-L02	Jun 28, 2023		Paint	S23-Jn0070042			X
46	B28-A01	Jun 28, 2023		Building Materials	S23-Jn0070043	X		
47	B28-A02	Jun 28, 2023		Building Materials	S23-Jn0070044	X		
48	B28-A03	Jun 28, 2023		Building Materials	S23-Jn0070045	X		
49	B28-A04	Jun 28, 2023		Building Materials	S23-Jn0070046	X		
50	B28-L01	Jun 29, 2023		Paint	S23-Jn0070047			X
Test Counts						32	2	16

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Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

mg/kg: milligrams per kilogram	**mg/L:** milligrams per litre	**µg/L:** micrograms per litre
ppm: parts per million	**ppb:** parts per billion	**%:** Percentage
org/100 mL: Organisms per 100 millilitres	**NTU:** Nephelometric Turbidity Units	**MPN/100 mL:** Most Probable Number of organisms per 100 millilitres
CFU: Colony forming unit		

Terms

APHA	American Public Health Association
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 5.4
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR: No Limit

Results between 10-20 times the LOR: RPD must lie between 0-50%

Results >20 times the LOR: RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Lab Sample ID	QA Source	Units	Result 1	Result 2	RPD	Acceptance Limits	Pass Limits	Qualifying Code
Method Blank									
Heavy Metals									
Lead			mg/kg	< 50			50	Pass	
Method Blank									
Lead (% w/w)			%	< 0.01			0.01	Pass	
LCS - % Recovery									
Heavy Metals									
Lead			%	96			80-120	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Spike - % Recovery									
Heavy Metals				Result 1					
Lead	S23-Jn0073483	NCP	%	106			75-125	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Lead	S23-Jn0073482	NCP	mg/kg	28	16	56	30%	Fail	Q15

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	N/A
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised by:

Andrew Black	Analytical Services Manager
Fang Yee Tan	Senior Analyst-Metal
Mickael Ros	Senior Analyst-Metal
Sayeed Abu	Senior Analyst-Asbestos

Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

012848

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 63888
PROJECT NAME: RPA
DATE NEEDED BY: STANDARD
PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) ....@jbsg.com.au; (3) ....@jbsg.com.au

LABORATORY BATCH NO.:
SAMPLERS: Jordan Gomez + Robert Sharpsmith.
QC LEVEL: NEPM (2013)

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	LEAD IN PAINT	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
L6-A13	MATERIAL	10-07-23		Bag.			X		
L6-A14	↓	↓		↓			X		
L6-A15	↓	↓		↓			X		
L6-A16	↓	↓		↓			X		
L6-L07	PAINT	↓		↓		X			
L6-L08	↓	↓		↓		X			
L7-A09	MATERIAL	↓		↓			X		
L7-A10	↓	↓		↓			X		
L7-A11	↓	↓		↓			X		

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Jordan Gomez DATE: 10.07.23 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: Jaylo DATE: 11/7 2:36 OF:	COOLER SEAL – Yes....... No .... Intact .... Broken .... COOLER TEMP .... deg C N/A
NAME: DATE: OF:	CONSIGNMENT NOTE NO. TRANSPORT CO	NAME: DATE: OF:	COOLER SEAL – Yes....... No .... Intact .... Broken .... COOLER TEMP .... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

1006675

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Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Check the COC for Project manager
Project name:	RPA
Project ID:	63888
Turnaround time:	5 Day
Date/Time received	Jul 11, 2023 2:36 PM
Eurofins reference	1006675

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
N/A	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
✗	Split sample sent to requested external lab.
✗	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Andrew Black on phone : (+61) 2 9900 8490 or by email: AndrewBlack@eurofins.com

Results will be delivered electronically via email to Check the COC for Project manager - ursulalong@eurofins.com.

Global Leader - Results you can trust

Certificate of Analysis

Environment Testing

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025–Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention:	Rob Sharpsmith
Report	1006675-AID
Project Name	RPA
Project ID	63888
Received Date	Jul 11, 2023
Date Reported	Jul 18, 2023

Methodology:

Asbestos Fibre Identification	Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques. *NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.*
Unknown Mineral Fibres	Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity. *NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.*
Subsampling Soil Samples	The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed. *NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.*
Bonded asbestos-containing material (ACM)	The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination.The resultant material is then further examined in accordance with AS 4964 - 2004. *NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.*
Limit of Reporting	The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w). The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk). *NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos".This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.*

Project Name RPA
Project ID 63888
Date Sampled Jul 10, 2023
Report 1006675-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
L6-A13	23-Jl0019831	Jul 10, 2023	Approximate Sample 2g / 20x10x2mm Sample consisted of: Grey flexible vinyl sheet and amber glue	No asbestos detected. No trace asbestos detected.
L6-A14	23-Jl0019832	Jul 10, 2023	Approximate Sample <1g / 5x2x1mm Sample consisted of: White plaster cement material and fibre plaster material	No asbestos detected. Organic fibre detected. No trace asbestos detected.
L6-A15	23-Jl0019833	Jul 10, 2023	Approximate Sample 1g / 10x5x3mm Sample consisted of: Yellow mastic material	Chrysotile asbestos detected.
L6-A16	23-Jl0019834	Jul 10, 2023	Approximate Sample 5g / 60x30x7mm Sample consisted of: Gold/ Brown vermiculite plaster material	No asbestos detected. Organic fibre detected. No trace asbestos detected.
L7-A09	23-Jl0019837	Jul 10, 2023	Approximate Sample 2g / 30x15x2mm Sample consisted of: Blue flexible vinyl sheet and amber glue	No asbestos detected. No trace asbestos detected.
L7-A10	23-Jl0019838	Jul 10, 2023	Approximate Sample 2g / 30x12x2mm Sample consisted of: Amber flexible vinyl sheet and amber glue	No asbestos detected. No trace asbestos detected.
L7-A11	23-Jl0019839	Jul 10, 2023	Approximate Sample 1g / 20x10x2mm Sample consisted of: Pink flexible vinyl sheet and amber glue	No asbestos detected. No trace asbestos detected.

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8020	Sydney	Jul 11, 2023	Indefinite

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Sydney
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NATA# 1261 Site# 18217

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
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NSW 2000

Project Name: RPA
Project ID: 63888

Order No.:
Report #: 1006675
Phone: 02 8245 0300
Fax:

Received: Jul 11, 2023 2:36 PM
Due: Jul 18, 2023
Priority: 5 Day
Contact Name: Rob Sharpsmith

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos Absence /Presence	Lead (% w/w)
Sydney Laboratory - NATA # 1261 Site # 18217						X	X
External Laboratory							
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**		
1	L6-A13	Jul 10, 2023		Building Materials	S23-Jl0019831	X	
2	L6-A14	Jul 10, 2023		Building Materials	S23-Jl0019832	X	
3	L6-A15	Jul 10, 2023		Building Materials	S23-Jl0019833	X	
4	L6-A16	Jul 10, 2023		Building Materials	S23-Jl0019834	X	
5	L6-LO7	Jul 10, 2023		Paint	S23-Jl0019835		X
6	L6-LO8	Jul 10, 2023		Paint	S23-Jl0019836		X
7	L7-A09	Jul 10, 2023		Building Materials	S23-Jl0019837	X	
8	L7-A10	Jul 10, 2023		Building Materials	S23-Jl0019838	X	
9	L7-A11	Jul 10, 2023		Building	S23-Jl0019839	X	

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Tel: +61 3 8564 5000	Tel: +61 3 8564 5000	Tel: +61 2 9900 8400	Tel: +61 2 6113 8091	Tel: +61 7 3902 4600	NATA# 1261
NATA# 1261 Site# 1254	NATA# 1261 Site# 25403	NATA# 1261 Site# 18217	NATA# 1261 Site# 25466	NATA# 1261 Site# 20794	Site# 25079 & 25289

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
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Project Name: RPA
Project ID: 63888

Order No.:
Report #: 1006675
Phone: 02 8245 0300
Fax:

Received: Jul 11, 2023 2:36 PM
Due: Jul 18, 2023
Priority: 5 Day
Contact Name: Rob Sharpsmith

Eurofins Analytical Services Manager : Andrew Black

Sample Detail	Asbestos Absence /Presence	Lead (% w/w)
Sydney Laboratory - NATA # 1261 Site # 18217	X	X
Materials		
Test Counts	7	2

Internal Quality Control Review and Glossary General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. Information identified on this report with the colour **blue** indicates data provided by customer that may have an impact on the results.
5. This report replaces any interim results previously issued.

Holding Times

Please refer to the most recent version of the 'Sample Preservation and Container Guide' for holding times (QS3001).
If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported. Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

Units

% w/w:	Percentage weight-for-weight basis, e.g. of asbestos in asbestos-containing finds in soil samples (**% w/w**)
F/fld	Airborne fibre filter loading as Fibres (**N**) per Fields counted (**n**)
F/mL	Airborne fibre reported concentration as Fibres per millilitre of air drawn over the sampler membrane (**C**)
g, kg	Mass, e.g. of whole sample (**M**) or asbestos-containing find within the sample (**m**)
g/kg	Concentration in grams per kilogram
L, mL	Volume, e.g. of air as measured in AFM (**V** = **r** x **t**)
L/min	Airborne fibre sampling Flowrate as litres per minute of air drawn over the sampler membrane (**r**)
min	Time (**t**), e.g. of air sample collection period

Calculations

Airborne Fibre Concentration: $C = \left(\frac{A}{a}\right) \times \left(\frac{N}{n}\right) \times \left(\frac{1}{r}\right) \times \left(\frac{1}{t}\right) = K \times \left(\frac{N}{n}\right) \times \left(\frac{1}{V}\right)$

Asbestos Content (as asbestos): $\%\, w/w = \frac{(m \times P_A)}{M}$

Weighted Average (of asbestos): $\%_{WA} = \sum \frac{(m \times P_A)_x}{x}$

Terms

%asbestos	Estimated percentage of asbestos in a given matrix. May be derived from knowledge or experience of the material, informed by HSG264 *Appendix 2*, else assumed to be 15% in accordance with WA DOH *Appendix 2* (**P_A**).
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded (non-friable) condition. For the purposes of the NEPM and WA DOH, ACM corresponds to material larger than 7 mm x 7 mm.
AF	Asbestos Fines. Asbestos contamination within a soil sample, as defined by WA DOH. Includes loose fibre bundles and small pieces of friable and non-friable material such as asbestos cement fragments mixed with soil. Considered under the NEPM as equivalent to “non-bonded / friable”.
AFM	Airborne Fibre Monitoring, e.g. by the MFM.
Amosite	Amosite Asbestos Detected. Amosite may also refer to Fibrous Grunerite or Brown Asbestos. Identified in accordance with AS 4964-2004.
AS	Australian Standard.
Asbestos Content (as asbestos)	Total % w/w asbestos content in asbestos-containing finds in a soil sample (**% w/w)**.
Chrysotile	Chrysotile Asbestos Detected. Chrysotile may also refer to Fibrous Serpentine or White Asbestos. Identified in accordance with AS 4964-2004.
COC	Chain of Custody.
Crocidolite	Crocidolite Asbestos Detected. Crocidolite may also refer to Fibrous Riebeckite or Blue Asbestos. Identified in accordance with AS 4964-2004.
Dry	Sample is dried by heating prior to analysis.
DS	Dispersion Staining. Technique required for Unequivocal Identification of asbestos fibres by PLM.
FA	Fibrous Asbestos. Asbestos containing material that is wholly or in part friable, including materials with higher asbestos content with a propensity to become friable with handling, and any material that was previously non-friable and in a severely degraded condition. For the purposes of the NEPM and WA DOH, FA generally corresponds to material larger than 7 mm x 7 mm, although FA may be more difficult to visibly distinguish and may be assessed as AF.
Fibre Count	Total of all fibres (whether asbestos or not) meeting the counting criteria set out in the NOHSC:3003
Fibre ID	Fibre Identification. Unequivocal identification of asbestos fibres according to AS 4964-2004. Includes Chrysotile, Amosite (Grunerite) or Crocidolite asbestos.
Friable	Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory’s remit to assess degree of friability.
HSG248	UK HSE HSG248, *Asbestos: The Analysts Guide*, 2nd Edition (2021).
HSG264	UK HSE HSG264, *Asbestos: The Survey Guide* (2012).
ISO (also ISO/IEC)	International Organization for Standardization / International Electrotechnical Commission.
K Factor	Microscope constant (**K**) as derived from the effective filter area of the given AFM membrane used for collecting the sample (**A**) and the projected eyepiece graticule area of the specific microscope used for the analysis (**a**).
LOR	Limit of Reporting.
MFM (also NOHSC:3003)	Membrane Filter Method. As described by the Australian Government National Occupational Health and Safety Commission, *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres*, 2nd Edition [NOHSC:3003(2005)].
NEPM (also ASC NEPM)	National Environment Protection (Assessment of Site Contamination) Measure, (2013, as amended).
Organic	Organic Fibres Detected. Organic may refer to Natural or Man-Made Polymeric Fibres. Identified in accordance with AS 4964-2004.
PCM	Phase Contrast Microscopy. As used for Fibre Counting according to the MFM.
PLM	Polarised Light Microscopy. As used for Fibre Identification and Trace Analysis according to AS 4964-2004.
Sampling	Unless otherwise stated Eurofins are not responsible for sampling equipment or the sampling process.
SMF	Synthetic Mineral Fibre Detected. SMF may also refer to Man Made Vitreous Fibres. Identified in accordance with AS 4964-2004.
SRA	Sample Receipt Advice.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres (particularly asbestos) in a given sample matrix.
UK HSE HSG	United Kingdom, Health and Safety Executive, Health and Safety Guidance, publication.
UMF	Unidentified Mineral Fibre Detected. Fibrous minerals that are detected but have not been unequivocally identified by PLM with DS according the AS 4964-2004. May include (but not limited to) Actinolite, Anthophyllite or Tremolite asbestos.
WA DOH	Reference document for the NEPM. Government of Western Australia, *Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia* (updated 2021), including Appendix Four: *Laboratory analysis*
Weighted Average	Combined average % w/w asbestos content of all asbestos-containing finds in the given aliquot or total soil sample (**$\%_{WA}$**).

Comments

23-Jl0019832: Submitted sample size was too small. Results may be differ for bigger size of sample.

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	N/A
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Asbestos Counter/Identifier:

Chamath JHM Annakkage	Senior Analyst-Asbestos

Authorised by:

Sayeed Abu	Senior Analyst-Asbestos

Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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Certificate of Analysis

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: **Rob Sharpsmith**

Report **1006675-S**
Project name RPA
Project ID 63888
Received Date Jul 11, 2023

Client Sample ID			**L6-LO7**	**L6-LO8**
Sample Matrix			**Paint**	**Paint**
Eurofins Sample No.			**S23-JI0019835**	**S23-JI0019836**
Date Sampled			**Jul 10, 2023**	**Jul 10, 2023**
Test/Reference	LOR	Unit		
Lead (% w/w)	0.01	%	2.0	3.0

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Lead (% w/w)	Sydney	Jul 17, 2023	6 Months

- Method: LTM-MET-3040 Metals in Waters Soils & Sediments by ICP-MS

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Project Name: RPA
Project ID: 63888

Order No.:
Report #: 1006675
Phone: 02 8245 0300
Fax:

Received: Jul 11, 2023 2:36 PM
Due: Jul 18, 2023
Priority: 5 Day
Contact Name: Check the COC for Project

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos Absence /Presence	Lead (% w/w)
Sydney Laboratory - NATA # 1261 Site # 18217						X	X
External Laboratory							
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**		
1	L6-A13	Jul 10, 2023		Building Materials	S23-Jl0019831	X	
2	L6-A14	Jul 10, 2023		Building Materials	S23-Jl0019832	X	
3	L6-A15	Jul 10, 2023		Building Materials	S23-Jl0019833	X	
4	L6-A16	Jul 10, 2023		Building Materials	S23-Jl0019834	X	
5	L6-LO7	Jul 10, 2023		Paint	S23-Jl0019835		X
6	L6-LO8	Jul 10, 2023		Paint	S23-Jl0019836		X
7	L7-A09	Jul 10, 2023		Building Materials	S23-Jl0019837	X	
8	L7-A10	Jul 10, 2023		Building Materials	S23-Jl0019838	X	
9	L7-A11	Jul 10, 2023		Building	S23-Jl0019839	X	

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Project Name: RPA
Project ID: 63888

Order No.:
Report #: 1006675
Phone: 02 8245 0300
Fax:

Received: Jul 11, 2023 2:36 PM
Due: Jul 18, 2023
Priority: 5 Day
Contact Name: Check the COC for Project

Eurofins Analytical Services Manager : Andrew Black

Sample Detail	Asbestos Absence /Presence	Lead (% w/w)
Sydney Laboratory - NATA # 1261 Site # 18217	X	X
Materials		
Test Counts	7	2

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Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

mg/kg: milligrams per kilogram	**mg/L:** milligrams per litre	**µg/L:** micrograms per litre
ppm: parts per million	**ppb:** parts per billion	**%:** Percentage
org/100 mL: Organisms per 100 millilitres	**NTU:** Nephelometric Turbidity Units	**MPN/100 mL:** Most Probable Number of organisms per 100 millilitres
CFU: Colony forming unit		

Terms

APHA	American Public Health Association
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 5.4
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR: No Limit

Results between 10-20 times the LOR: RPD must lie between 0-50%

Results >20 times the LOR: RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Lead (% w/w)	%	< 0.01			0.01	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	N/A
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Authorised by:

Andrew Black	Analytical Services Manager
Mickael Ros	Senior Analyst-Metal
Sayeed Abu	Senior Analyst-Asbestos

Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

012847

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 63888
PROJECT NAME: RPA
DATE NEEDED BY: STANDARD
PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) SLUMSDEN@jbsg.com.au; (3) JGOMEZ@jbsg.com.au

LABORATORY BATCH NO.:
SAMPLERS: JORDAN GOMEZ + Robert Sharpsmith.
QC LEVEL: NEPM (2013)

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
EM-001	MATERIAL	10-07-23		Bag.		X		
EM-02	↓	↓		↓		X		
EM-03						X		

RELINQUISHED BY:
NAME: JORDAN GOMEZ DATE: 10.07.23
OF: JBS&G
NAME: DATE:
OF:

METHOD OF SHIPMENT:
CONSIGNMENT NOTE NO.
TRANSPORT CO.
CONSIGNMENT NOTE NO.
TRANSPORT CO

RECEIVED BY:
NAME: Taylor DATE: 10/7 2:36
OF:
NAME: DATE:
OF:

FOR RECEIVING LAB USE ONLY:
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C N/A
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Generic

1006685

eurofins | Environment Testing

www.eurofins.com.au EnviroSales@eurofins.com

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Tel: +61 3 8564 5000
NATA# 1261 Site# 25403

Sydney
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Girraween
NSW 2145
Tel: +61 2 9900 8400
NATA# 1261 Site# 18217

Canberra
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Mitchell
ACT 2911
Tel: +61 2 6113 8091
NATA# 1261 Site# 25466

Brisbane
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Murarrie
QLD 4172
Tel: +61 7 3902 4600
NATA# 1261 Site# 20794

Newcastle
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Mayfield West NSW 2304
Tel: +61 2 4968 8448
NATA# 1261
Site# 25079 & 25289

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Tel: +61 8 6253 4444
NATA# 2377 Site# 2370

Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

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Penrose,
Auckland 1061
Tel: +64 9 526 4551
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: +64 3 343 5201
IANZ# 1290

Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Stuart Lumsden
Project name:	RPA
Project ID:	63888
Turnaround time:	5 Day
Date/Time received	Jul 11, 2023 2:36 PM
Eurofins reference	1006688

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
N/A	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
✗	Split sample sent to requested external lab.
✗	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Andrew Black on phone : (+61) 2 9900 8490 or by email: AndrewBlack@eurofins.com

Results will be delivered electronically via email to Stuart Lumsden - slumsden@jbsg.com.au.

Global Leader - Results you can trust

Certificate of Analysis

Environment Testing

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025–Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention:	Stuart Lumsden
Report	1006688-AID
Project Name	RPA
Project ID	63888
Received Date	Jul 11, 2023
Date Reported	Jul 18, 2023

Methodology:

Asbestos Fibre Identification	Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques. *NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.*
Unknown Mineral Fibres	Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity. *NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.*
Subsampling Soil Samples	The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed. *NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.*
Bonded asbestos-containing material (ACM)	The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination.The resultant material is then further examined in accordance with AS 4964 - 2004. *NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.*
Limit of Reporting	The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w). The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk). *NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos".This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.*

Project Name RPA
Project ID 63888
Date Sampled Jul 10, 2023
Report 1006688-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
EM-01	23-Jl0019870	Jul 10, 2023	Approximate Sample 1g / 20x7x3mm Sample consisted of: Black sealant material	No asbestos detected. No trace asbestos detected.
EM-02	23-Jl0019871	Jul 10, 2023	Approximate Sample 1g / 15x10x5mm Sample consisted of: Black flexible rubbery material sheet	No asbestos detected. No trace asbestos detected.
EM-03	23-Jl0019872	Jul 10, 2023	Approximate Sample 7g / 50x15x10mm Sample consisted of: Off-white sealant material	No asbestos detected. No trace asbestos detected.

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8020	Sydney	Jul 11, 2023	Indefinite

eurofins

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email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West NSW 2304
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	Tel: +61 2 4968 8448
Tel: +61 3 8564 5000	Tel: +61 3 8564 5000	Tel: +61 2 9900 8400	Tel: +61 2 6113 8091	Tel: +61 7 3902 4600	NATA# 1261
NATA# 1261 Site# 1254	NATA# 1261 Site# 25403	NATA# 1261 Site# 18217	NATA# 1261 Site# 25466	NATA# 1261 Site# 20794	Site# 25079 & 25289

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NATA# 2377 Site# 2370

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Auckland 1061	Christchurch 7675
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IANZ# 1327	IANZ# 1290

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: RPA
Project ID: 63888

Order No.:
Report #: 1006688
Phone: 02 8245 0300
Fax:

Received: Jul 11, 2023 2:36 PM
Due: Jul 18, 2023
Priority: 5 Day
Contact Name: Stuart Lumsden

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos Absence /Presence
Sydney Laboratory - NATA # 1261 Site # 18217						X
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	EM-01	Jul 10, 2023		Building Materials	S23-Jl0019870	X
2	EM-02	Jul 10, 2023		Building Materials	S23-Jl0019871	X
3	EM-03	Jul 10, 2023		Building Materials	S23-Jl0019872	X
Test Counts						3

Internal Quality Control Review and Glossary General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. Information identified on this report with the colour **blue** indicates data provided by customer that may have an impact on the results.
5. This report replaces any interim results previously issued.

Holding Times

Please refer to the most recent version of the 'Sample Preservation and Container Guide' for holding times (QS3001).
If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported. Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

Units

% w/w:	Percentage weight-for-weight basis, e.g. of asbestos in asbestos-containing finds in soil samples (**% w/w**)
F/fld	Airborne fibre filter loading as Fibres (**N**) per Fields counted (**n**)
F/mL	Airborne fibre reported concentration as Fibres per millilitre of air drawn over the sampler membrane (**C**)
g, kg	Mass, e.g. of whole sample (**M**) or asbestos-containing find within the sample (**m**)
g/kg	Concentration in grams per kilogram
L, mL	Volume, e.g. of air as measured in AFM (**V** = **r** x **t**)
L/min	Airborne fibre sampling Flowrate as litres per minute of air drawn over the sampler membrane (**r**)
min	Time (**t**), e.g. of air sample collection period

Calculations

Airborne Fibre Concentration: $C = \left(\frac{A}{a}\right) \times \left(\frac{N}{n}\right) \times \left(\frac{1}{r}\right) \times \left(\frac{1}{t}\right) = K \times \left(\frac{N}{n}\right) \times \left(\frac{1}{V}\right)$

Asbestos Content (as asbestos): $\%\, w/w = \frac{(m \times P_A)}{M}$

Weighted Average (of asbestos): $\%_{WA} = \sum \frac{(m \times P_A)_x}{x}$

Terms

%asbestos	Estimated percentage of asbestos in a given matrix. May be derived from knowledge or experience of the material, informed by HSG264 *Appendix 2*, else assumed to be 15% in accordance with WA DOH *Appendix 2* (**P_A**).
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded (non-friable) condition. For the purposes of the NEPM and WA DOH, ACM corresponds to material larger than 7 mm x 7 mm.
AF	Asbestos Fines. Asbestos contamination within a soil sample, as defined by WA DOH. Includes loose fibre bundles and small pieces of friable and non-friable material such as asbestos cement fragments mixed with soil. Considered under the NEPM as equivalent to “non-bonded / friable”.
AFM	Airborne Fibre Monitoring, e.g. by the MFM.
Amosite	Amosite Asbestos Detected. Amosite may also refer to Fibrous Grunerite or Brown Asbestos. Identified in accordance with AS 4964-2004.
AS	Australian Standard.
Asbestos Content (as asbestos)	Total % w/w asbestos content in asbestos-containing finds in a soil sample (**% w/w)**.
Chrysotile	Chrysotile Asbestos Detected. Chrysotile may also refer to Fibrous Serpentine or White Asbestos. Identified in accordance with AS 4964-2004.
COC	Chain of Custody.
Crocidolite	Crocidolite Asbestos Detected. Crocidolite may also refer to Fibrous Riebeckite or Blue Asbestos. Identified in accordance with AS 4964-2004.
Dry	Sample is dried by heating prior to analysis.
DS	Dispersion Staining. Technique required for Unequivocal Identification of asbestos fibres by PLM.
FA	Fibrous Asbestos. Asbestos containing material that is wholly or in part friable, including materials with higher asbestos content with a propensity to become friable with handling, and any material that was previously non-friable and in a severely degraded condition. For the purposes of the NEPM and WA DOH, FA generally corresponds to material larger than 7 mm x 7 mm, although FA may be more difficult to visibly distinguish and may be assessed as AF.
Fibre Count	Total of all fibres (whether asbestos or not) meeting the counting criteria set out in the NOHSC:3003
Fibre ID	Fibre Identification. Unequivocal identification of asbestos fibres according to AS 4964-2004. Includes Chrysotile, Amosite (Grunerite) or Crocidolite asbestos.
Friable	Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory’s remit to assess degree of friability.
HSG248	UK HSE HSG248, *Asbestos: The Analysts Guide*, 2nd Edition (2021).
HSG264	UK HSE HSG264, *Asbestos: The Survey Guide* (2012).
ISO (also ISO/IEC)	International Organization for Standardization / International Electrotechnical Commission.
K Factor	Microscope constant (**K**) as derived from the effective filter area of the given AFM membrane used for collecting the sample (**A**) and the projected eyepiece graticule area of the specific microscope used for the analysis (**a**).
LOR	Limit of Reporting.
MFM (also NOHSC:3003)	Membrane Filter Method. As described by the Australian Government National Occupational Health and Safety Commission, *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres*, 2nd Edition [NOHSC:3003(2005)].
NEPM (also ASC NEPM)	National Environment Protection (Assessment of Site Contamination) Measure, (2013, as amended).
Organic	Organic Fibres Detected. Organic may refer to Natural or Man-Made Polymeric Fibres. Identified in accordance with AS 4964-2004.
PCM	Phase Contrast Microscopy. As used for Fibre Counting according to the MFM.
PLM	Polarised Light Microscopy. As used for Fibre Identification and Trace Analysis according to AS 4964-2004.
Sampling	Unless otherwise stated Eurofins are not responsible for sampling equipment or the sampling process.
SMF	Synthetic Mineral Fibre Detected. SMF may also refer to Man Made Vitreous Fibres. Identified in accordance with AS 4964-2004.
SRA	Sample Receipt Advice.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres (particularly asbestos) in a given sample matrix.
UK HSE HSG	United Kingdom, Health and Safety Executive, Health and Safety Guidance, publication.
UMF	Unidentified Mineral Fibre Detected. Fibrous minerals that are detected but have not been unequivocally identified by PLM with DS according the AS 4964-2004. May include (but not limited to) Actinolite, Anthophyllite or Tremolite asbestos.
WA DOH	Reference document for the NEPM. Government of Western Australia, *Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia* (updated 2021), including Appendix Four: *Laboratory analysis*
Weighted Average	Combined average % w/w asbestos content of all asbestos-containing finds in the given aliquot or total soil sample (**$\%_{WA}$**).

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	N/A
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Asbestos Counter/Identifier:

Chamath JHM Annakkage	Senior Analyst-Asbestos

Authorised by:

Sayeed Abu	Senior Analyst-Asbestos

Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

Appendix D Client Provided Floor Plans

RPA
LEVEL 1

BUILDING 72
EDUCATION BUILDING

BUILDING 63
ALBERT PAVILLION

BUILDING 75
EDINBURGH BUILDING
'E' BLOCK

BUILDING 64
ADMINISTRATION

BUILDING 65
VICTORIA PAVILLION

BUILDING 77

BUILDING 88
GLOUCESTER HOUSE

SUBSTATION
100m²

SWITCH
ROOM
160m²

LIFT
SHAFTS

LIFT
SHAFTS

LIFT
SHAFTS

DIESEL
PUMPS
40m²

WATER
DETENTION
TANK
140m²

HOT WATER
85m²

NEO SCIENCE
WORKSHOP
50m²

STORE
30m²

WELDING
20m²

PLANT
50m²

CHILLERS
AND PUMPS
510m²

SWITCH
ROOM
150m²

SEWER
PUMP
ROOM
115m²

SUBSTATION
140m²

Jacobs LFA

Scale 1:500 @ A1

0 1m 2m 4m

Level 1

Royal Prince Alfred Hospital Redevelopment Stage 1

RPA
LEVEL 2

BUILDING 72
EDUCATION BUILDING

BUILDING 63
ALBERT PAVILLION

BUILDING 64
ADMINISTRATION

BUILDING 65
VICTORIA PAVILLION

BUILDING 75
EDINBURGH BUILDING
E BLOCK

BUILDING 88
GLOUCESTER

EDUCATION CENTRE
400m²

CARPARK
1170m²

CMTU
420m²

BIO MEDICAL
380m²

LAB
160m²

AV
80m²

WASTE
530m²

LINEN
430m²

SUPPLY AND DISTRIBUTION
132m²

FOOD SERVICES
110m²

TSSU
1570m²

CLEANERS
120m²

CHANGE
205m²

FINISHING KITCHEN
1000m²

CLINIC
290m²

CLINICS WAITING
265m²

PALLIATIVE CARE
240m²

PALLIATIVE CARE OFFICES
200m²

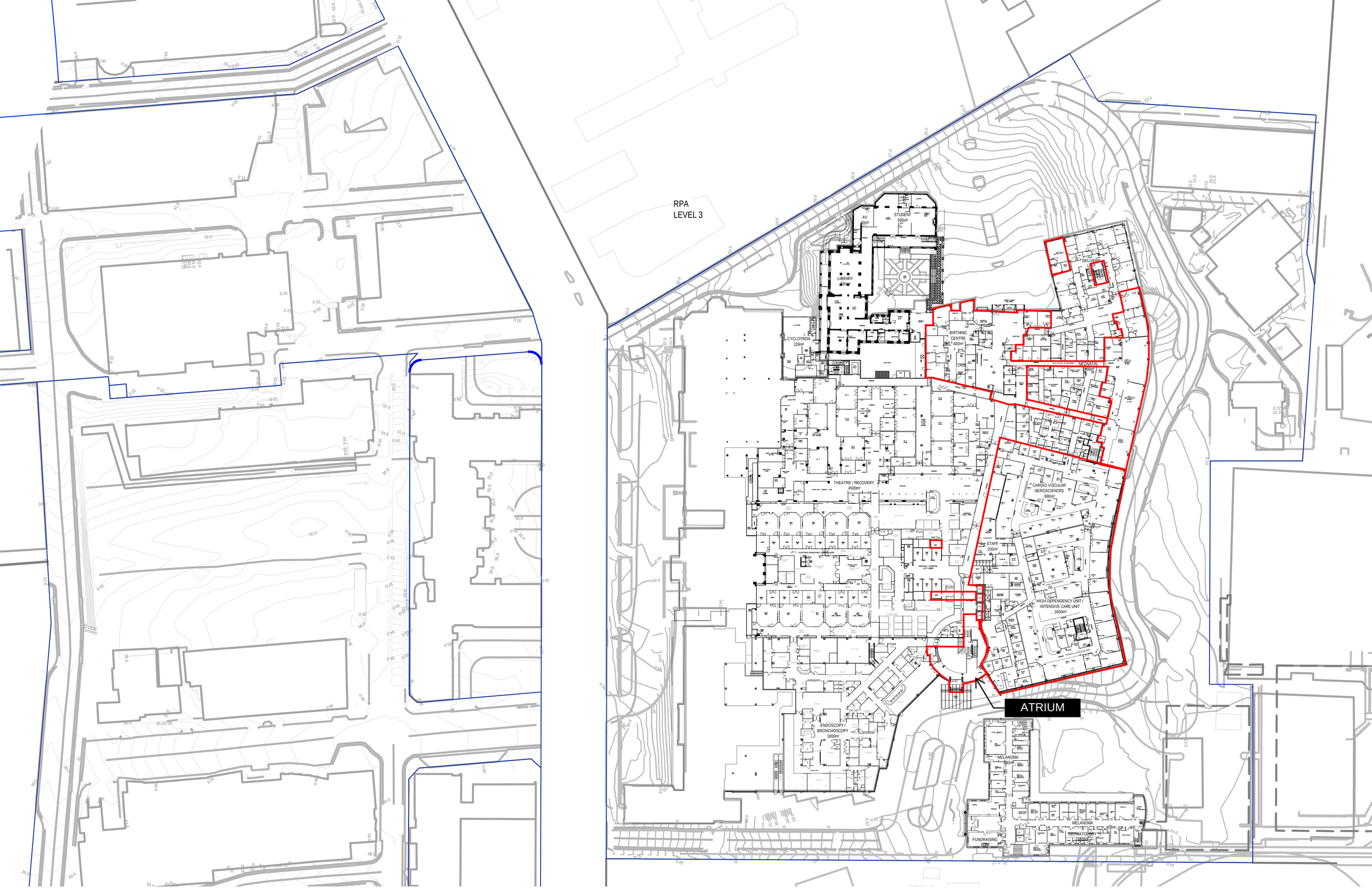
Jacobs LFA

Scale 1:500 @ A1

0 1m 2m 4m

Royal Prince Alfred Hospital Redevelopment Stage 1

RPA
LEVEL 3



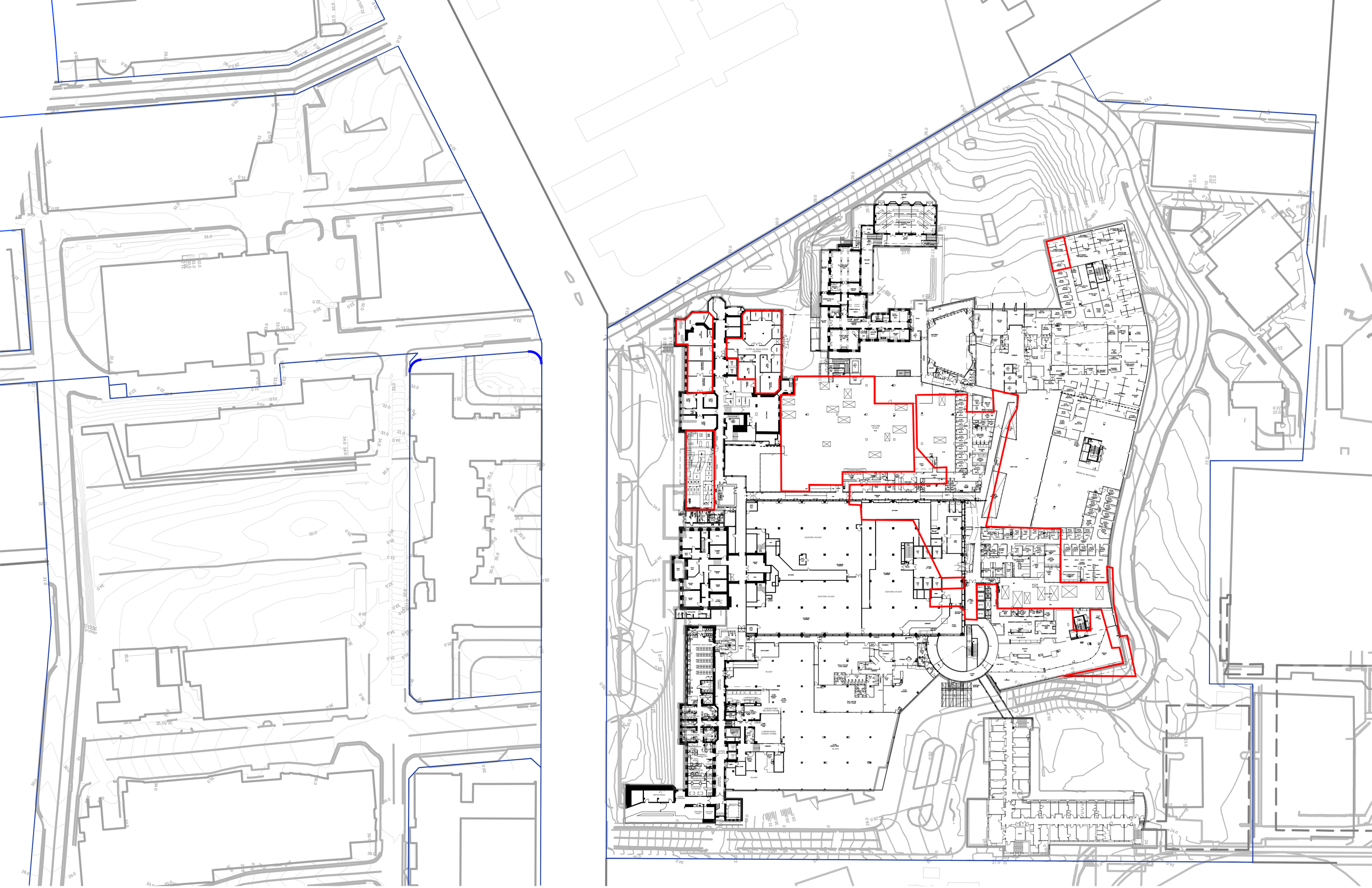
Level 3

Royal Prince Alfred Hospital Redevelopment Stage 1

Jacobs LFA

Scale 1:500 @ A1

0 1m 2m 4m



Level 4

Jacobs LFA

Scale 1:500 @ A1

0 1m 2m 4m

Royal Prince Alfred Hospital Redevelopment Stage 1

LEGENDS:

: NEW AREAS TO BE INVETIGATED
: EXISTING MARKUP

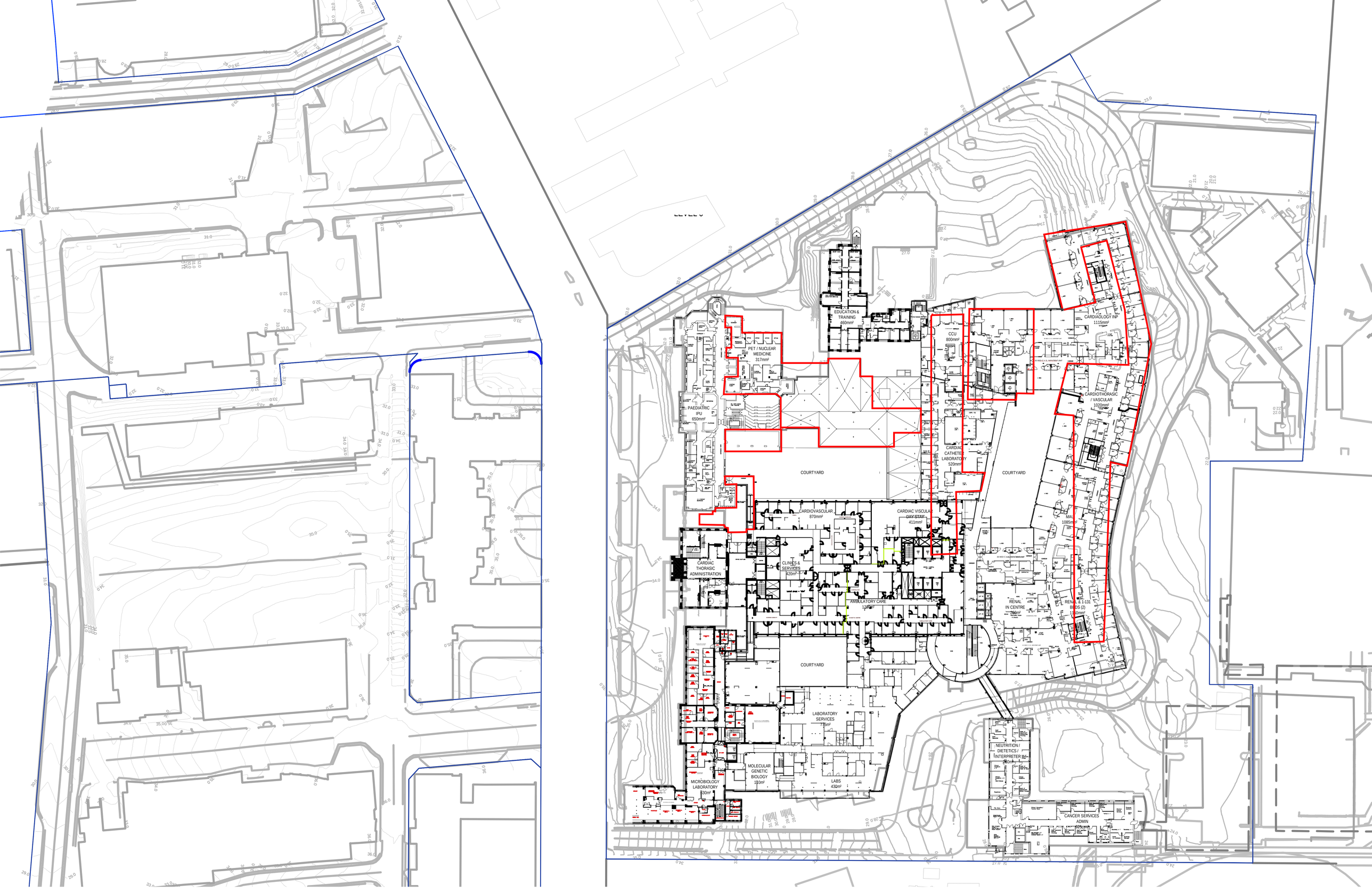
Jacobs LFA

Scale 1:500 @ A1

0 1m 2m 4m

Level 5

Royal Prince Alfred Hospital Redevelopment Stage 1



Jacobs LFA

Scale 1:500 @ A1

0 1m 2m 4m

Level 6

Royal Prince Alfred Hospital Redevelopment Stage 1

RPA
LEVEL 7

NUCLEAR MEDICINE
1470m²

CRYOGENICS LAB
HAEMATOLOGY STEP DOWN
1000m²

CARDIAC VASULAR
ADMINISTRATION
300m²

APHERESIS / BONE MARROW
260m²

HAEMOLOGY
IPU - 30 BED
1050m²

PATHOLOGY
880m²

LABPORATORY
SERVICES
BUSINESS UNIT
169m²

COURTYARD

GYNAE / GYNAE ONC / UROL / MELAN /
PALL CARE / RAD ONC / DERM IPU - 30 BED
1020m²

MEDICAL ONCOLOGY/
HEAD & NECK IPU - 30 BED
980m²

PLANT
1500m²

Existing Roof
at Level 6

Existing Roof
at Level 7

Jacobs LFA

Scale 1:500 @ A1

0 1m 2m 4m

Level 7

Royal Prince Alfred Hospital Redevelopment Stage 1

RPA
LEVEL 8

BUILDING 72
EDUCATION BUILDING

BUILDING 63
ALBERT PAVILLION

BUILDING 64
ADMINISTRATION

BUILDING 65
VICTORIA PAVILLION

BUILDING 21
EDINBURGH BUILDING

NEUROSCIENCE IPU - 30 BED
1000m²

NEURO
ADMINISTRATION
390m²

GERIATRIC IPU - 30 BED
1000m²

MATERNITY PRIVATE
IPU - 20 BED
900m²

NEUROSCIENCE
AMBULATORY CARE
1400m²

BUILDING 88
GLOUCESTER HOUSE

PLANT

LIFT MOTOR ROOM

Jacobs

Scale 1:500 @ A1

0 1m 2m 4m

Level 8

Royal Prince Alfred Hospital Redevelopment Stage 1

RPA
LEVEL 9

UPPER GI / GASTRO
IPU - 26 BED
920m²

GASTRO
LIVER
620m²

COLORECTAL IPU - 24 BED
860m²

TRANSPLANT
IPU - 24 BED
900m²

TRANSPLANT /
AMBULATORY CARE
740m²

RENAL / LIVER
TRANSPLANT
ADMINISTRATION
518m²

RESOURCE
SURGICAL
OUTCOMES
150m²

Jacobs LFA

Scale 1:500 @ A1

0 1m 2m 4m

Level 9

Royal Prince Alfred Hospital Redevelopment Stage 1

RPA
LEVEL 10

ORTHOPAEDIC + IPU - 30 BED 1100m²

PLASTICS & IMMUNOLOGY OPD 230m²

PLASTIC / ID / IMMUNO / BREAST/ TRAUMA 1100m²

TRAUMA PLASTIC RECONSTRUCTIVE 80m²

PLANT 1240m²

Level 10

Royal Prince Alfred Hospital Redevelopment Stage 1

Jacobs LFA

Scale 1:500 @ A1

0 1m 2m 4m

RPA
LEVEL 11

RESPIRATORY
IPU - 30 BED
1100m²

SLEEP LAB - 6
DAY BED
300m²

RESPIRATORY
CLINIC
ADMINISTRATION
240m²

RESPIRATORY
AMBULATORY CARE
680m²

HELIPAD

Level 11

Royal Prince Alfred Hospital Redevelopment Stage 1

Jacobs LFA

Scale 1:500 @ A1

0 1m 2m 4m

RPA
LEVEL 12

PLANT
1620m²

Level 12

Royal Prince Alfred Hospital Redevelopment Stage 1

Jacobs LFA

Scale 1:500 @ A1

0 1m 2m 4m

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