
HAZARDOUS MATERIALS ASSESSMENT REPORT

Client: Cape Cod Australia Pty. Limited

Job details: Owner: Mr. G. & Mrs. C. Soalheiro.
Location: 65 Koorungal Avenue, Thornleigh.

Plans for Job No: 7801/16

Revision No: D

Dated: 24-11-2016

Council area: HORNSBY SHIRE

Date of assessment: 20th December 2016

Our reference: HM05421216

The Client acknowledges that:

This report is provided for **the exclusive information of the Client**. It is a term and condition of the terms upon which this report is provided, that if the Client chooses to rely upon the report, that the Company and the Person making this report will not be liable to the Client or to any other Person who suffers personal or property damage or financial loss in respect of any cause of action or tort, contract or however the cause of action is said to arise.

This report is **not a guarantee or warranty** or an all-encompassing report dealing with the above property from every aspect. It is based on the condition of the property and the **"Readily Accessible Areas"** at the time of assessment. It is a reasonable attempt to identify as far as *reasonably practicable*, any significant hazardous materials i.e. materials *"that may"* contain asbestos [ACM] or [ACD], ceiling dusts *"that may"* contain lead, paints *"that may"* contain lead or synthetic mineral fibres [SMF], **visible** at the time of assessment.

This report, based on visual assessment, will not disclose hazardous materials in inaccessible areas, not readily accessible or obstructed at the time of assessment. Areas which are not normally accessible were not assessed and include but are not limited to – inside walls, the interior of a flat roof or beneath a suspended floor filled with earth.

This report is **not a Certificate of Compliance** with the requirements of the WHS Act 2011 and WHS Regulations 2011, relevant Codes of Practice or Australian Standards or NSW Office of Environment and Heritage [OEHS] Regulations.



Front eastern elevation of the residence

1. GENERAL DESCRIPTION OF THE EXISTING RESIDENCE

Estimated age:	Circa 1960 - 1970
Type of construction:	Freestanding, single storey brick veneer construction built on brick pier footings supporting a suspended timber floor system.
External cladding:	Clay masonry brickwork
Roof:	Traditional cut and pitched, hip and valley structure with concrete roofing tiles.

Occupancy Status: Was the residence occupied at the time of assessment?

Yes	✓	No	Not Applicable
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Orientation: For the purpose of this report the front of the residence faces:

East	✓	West	North	South	Northeast	Northwest	Southeast	Southwest
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2. AREAS ASSESSED

This assessment covers the following “*Readily Accessible Areas*” of the existing residence layout to identify as far as *reasonably practicable* any significant hazardous materials i.e. materials “*that may*” contain asbestos [ACM] or [ACD], ceiling dusts “*that may*” contain lead, paints “*that may*” contain lead or synthetic mineral fibre insulation [SMF].

Under Floor Space	✓	Exterior	✓	Roof Surfaces	✓	Roof Cavity	✓	Interior	✓	Carport	✓
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3. ASSESSMENT OF THE EXISTING RESIDENCE LAYOUT FOR HAZARDOUS MATERIALS

Area Assessed	Description and Comment	Assessment / Action
Under Floor Space	Dry sandy loam soil. No evidence of hazardous materials was noted. Note: not associated with the proposed Contract works.	No action is required.
Exterior		
Cladding	Clay masonry brickwork	
Eave soffit lining	Probable asbestos cement [ACM] sheeting to eave soffits. Note: not associated with the proposed Contract works, existing eaves to be retained.	All necessary steps are to be taken to protect the retained eaves from damage during the course of the works. Appropriate dust suppression measures to be provided. No further action is required.
Roofing material	Concrete roofing tiles to the roof surface. Note: 60% of the original roof structure to be removed to accommodate first floor addition as part of the proposed Contract works.	Remove and dispose of the concrete roofing tiles in a manner approved by NSW OEH and Hornsby Council. Appropriate dust suppression measures to be provided. No further action is required.
Front Verandah	Suspended slab floor lined with quarry tiles supported on brick footings and riser walls Note: not associated with the proposed Contract works.	Appropriate dust suppression measures to be provided. No further action is required.
Rear Awning	Pre-finished metal framed structure with corrugated profile translucent acrylic roofing. Note: not associated with the proposed Contract works.	Appropriate dust suppression measures to be provided. No further action is required.
Painting - general	Combination of oil based and acrylic based surface coating to the fascia, eaves and trims. No exposed lead based paints were observed.	Appropriate dust suppression measures to be provided. No further action is required.
Interior		
Entry	Plasterboard wall linings. Plasterboard ceiling lining with timber strip shadow cornice. Note: not associated with the proposed Contract works.	Appropriate dust suppression measures to be provided. No further action is required.

Area Assessed	Description and Comment	Assessment / Action
Entry Cupboard	Possible asbestos cement [ACM] sheet to the internal cupboard lining. Note: not associated with the proposed Contract works.	All necessary steps are to be taken to protect the retained lining from damage during the course of the works. Appropriate dust suppression measures to be provided. No further action is required.
Lounge Note: shown as Bedroom 1 on Construction Drawing 3 of 8 for Job No. 7801/16.	Plasterboard wall linings. Plasterboard ceiling lining with timber strip shadow cornice. Note: not associated with the proposed Contract works.	Appropriate dust suppression measures to be provided. No further action is required.
Dining Note: shown as Bedroom 2 on Construction Drawing 3 of 8 for Job No. 7801/16.	Plasterboard wall linings. Plasterboard ceiling lining with timber strip shadow cornice. Note: not associated with the proposed Contract works.	Appropriate dust suppression measures to be provided. No further action is required.
Kitchen Note: shown as Bathroom & WC on Construction Drawing 3 of 8 for Job No. 7801/16.	Plasterboard wall linings. Plasterboard ceiling lining with timber strip shadow cornice. Note: Probable asbestos cement [ACM] sheet to the wall common with the Laundry, to be retained as part of the proposed Contract works.	Appropriate dust suppression measures to be provided. No further action is required.
Kitchen Pantry Note: shown as staircase on Construction Drawing 3 of 8 for Job No. 7801/16.	Possible asbestos cement [ACM] sheet to the to the internal cupboard lining. Note: to be demolished to accommodate the first floor staircase as part of the proposed Contract works.	~ 4.5 m ² Remove and dispose of the ACM sheeting as required in a manner approved by Safe Work NSW, NSW OEH and Hornsby Council. See attached Safe Work Method Statement for the removal of material <i>that may</i> contain asbestos [ACM]. All necessary steps are to be taken to protect the retained eaves from damage during the course of the works. Appropriate dust suppression measures to be provided. No further action is required.
Laundry	Probable asbestos cement [ACM] sheet to the wall lining tiled to splashback level. Plasterboard ceiling lining with timber strip shadow cornice. Note 1: Cork tiles to floor lining. Note 2: not associated with the proposed Contract works.	All necessary steps are to be taken to protect the retained wall lining from damage during the course of the works. Appropriate dust suppression measures to be provided. No further action is required.

Area Assessed	Description and Comment	Assessment / Action
Hallway	Plasterboard wall linings. Plasterboard ceiling lining with timber strip shadow cornice. Note: not associated with the proposed Contract works.	Appropriate dust suppression measures to be provided. No further action is required.
Hallway Cupboards	Possible asbestos cement [ACM] sheet to the internal cupboard lining. Note: not associated with the proposed Contract works.	All necessary steps are to be taken to protect the retained lining from damage during the course of the works. Appropriate dust suppression measures to be provided. No further action is required.
Bedroom 3 Note: shown as Dining Room on Construction Drawing 3 of 8 for Job No. 7801/16.	Plasterboard wall linings. Plasterboard ceiling lining with timber strip shadow cornice. Note: not associated with the proposed Contract works.	Appropriate dust suppression measures to be provided. No further action is required.
Bathroom	Probable asbestos cement [ACM] sheet to the wall lining, tiled to 2.1m. Plasterboard ceiling lining with cove profiled plaster cornice. Note: not associated with the proposed Contract works.	All necessary steps are to be taken to protect the retained wall lining from damage during the course of the works. Appropriate dust suppression measures to be provided. No further action is required.
Bedroom 2 Note: shown as Family Room on Construction Drawing 3 of 8 for Job No. 7801/16.	Plasterboard wall linings. Plasterboard ceiling lining with timber strip shadow cornice. Note: not associated with the proposed Contract works.	Appropriate dust suppression measures to be provided. No further action is required.
Bedroom 1 Note: shown as Family Room on Construction Drawing 3 of 8 for Job No. 7801/16.	Plasterboard wall linings. Plasterboard ceiling lining with timber strip shadow cornice. Note: not associated with the proposed Contract works.	Appropriate dust suppression measures to be provided. No further action is required.
Painting - general	Combination of oil based and acrylic based surface coating to ceilings, walls, doors and trims. No exposed lead based paints were observed.	Appropriate dust suppression measures to be provided. No further action is required

Area Assessed	Description and Comment	Assessment / Action
Pitched Roof Cavity	<p>Traditional cut and pitched timber roof structure and ceiling frame to roof cavity.</p> <p>Note 1: 60% of the roof structure to be removed to accommodate first floor addition as part of the proposed Contract works.</p> <p>Note 2: sarking was observed to the underside of the concrete roofing tiles.</p> <p>Note 3: Synthetic Mineral Fibre [SMF] insulation was noted overall roof space.</p> <p>Note 4: Disused water cistern and tray noted. Cistern to be removed as part of the proposed Contract works.</p> <p>Note 5: Moderate ceiling dust was noted.</p>	<p>In our opinion the air quality will not be generally affected during the course of the construction of the new first floor addition.</p> <p>Remove and dispose of the disused HWS with possible asbestos containing material [ACM] in a manner approved by NSW OEH and Hornsby Council.</p> <p>Remove and dispose of the foil backed insulation / sarking in a manner approved by NSW OEH and Hornsby Council.</p> <p>Appropriate dust suppression measures to be provided.</p> <p>No further action is required</p>
Electrical Meter Board	<p>Located on the front south eastern external wall of the residence.</p> <p>Probable asbestos cement [ACM] in backing board is noted.</p> <p>Note: meter board and POA to be retained in current position as part of the proposed Contract works.</p>	<p>All necessary steps are to be taken to protect the ACM from damage during the course of the works.</p>
Carport	<p>Attached metal framed structure supported on brick piers with a combination of pan profiled sheet metal and fibreglass roofing.</p> <p>Combination concrete slab and ceramic tiled floor.</p> <p>Note: not associated with the proposed Contract works.</p>	<p>Appropriate dust suppression measures to be provided.</p> <p>No further action is required</p>
Shed	<p>Combination of concrete block and prefinished pan profiled sheet metal cladding supported on a concrete slab floor with a metal framed sheet metal roof.</p> <p>Note: Probable asbestos cement [ACM] weatherboards to the top section of the western and southern elevation.</p>	<p>All necessary steps are to be taken to protect the retained ACM from damage during the course of the works.</p>
Approximate area of materials “that may” contain asbestos [ACM] to be removed as part of the proposed Contract works.		4.5 m²

SITE ASBESTOS [ACM] REGISTER

Location of ACM	Type	Quantity	Condition	Assessment / Action
Eave soffit lining	Probable asbestos cement [AC] sheet	~ 16.5 m ²	Non-Friable Good / Stable Painted	Protect the retained ACM from damage during the course of the works.
Laundry wall lining	Probable asbestos [AC] cement sheet	~ 11.5 m ²	Non-Friable Good / Stable Painted	Protect the retained ACM from damage during the course of the works.
Bathroom	Probable asbestos [AC] cement sheet	~ 12.0 m ²	Non-Friable Good / Stable Painted	Protect the retained ACM from damage during the course of the works.
Kitchen Pantry	Possible asbestos [AC] cement sheet	~ 5.0 m ²	Non-Friable Good / Stable Painted	Protect the retained ACM from damage during the course of the works.
Hallway Cupboards	Possible asbestos [AC] cement sheet	~ 6.0 m ²	Non-Friable Good / Stable Painted	Protect the retained ACM from damage during the course of the works.
Entry Cupboard	Possible asbestos [AC] cement sheet	~ 2.0 m ²	Non-Friable Good / Stable Painted	Protect the retained ACM from damage during the course of the works.
Shed	Probable asbestos [AC] cement sheet cladding	~ 3.5 m ²	Non-Friable Good / Stable Painted	Protect the retained ACM from damage during the course of the works.

DEMOLITION WORK PLAN

The partial demolition of the residence and the removal, storage, handling and disposal of building materials must be carried out as far as *reasonably practicable* in accordance with the following Regulations;

- Work Health and Safety Act 2011 and Work Health and Safety Regulations 2011
- Safe Work NSW - Code of Practice - *How to manage and control asbestos in the workplace*
- Safe Work Australia - Code of Practice - *How to safely remove asbestos*
- NSW Work Health and Safety Regulation 2011 – Chapter 4 – Hazardous Work
- NSW Work Health and Safety Regulation 2011 – Chapter 6 – Construction Work
- NSW Work Health and Safety Regulation 2011 – Chapter 7 – Hazardous Chemicals
- NSW Work Health and Safety Regulation 2011 – Chapter 8 - Asbestos
- Australian Standard AS2601 [2001] - Demolition of Structures

- NSW Protection of the Environment Operations Act [1997] or as amended
- NSW Protection of the Environment Operations [Waste] Regulation [2014]
- NSW Office of Environment and Heritage [OEH] Regulations and Guidelines

A Demolition Work Plan must be submitted to HORNSBY SHIRE Council and the Principal Certifying Authority (PCA) if HORNSBY SHIRE Council is not the PCA, not less than five [5] working days ***before commencing any demolition works*** involving products or materials “*that may*” contain asbestos [ACM].

A copy of the Demolition Work Plan must be maintained on site and be made readily accessible to the Council Officer or ‘workers’ upon request.

ASBESTOS [ACM] REMOVAL CONTROL PLAN

Safe Work Method Statement - Removal & Disposal of Materials *that may* contain Asbestos

Any work involving the demolition, storage and disposal of products or materials “*that may*” contain asbestos [ACM] must be carried out as far as is *reasonably practicable* to minimise the release of airborne asbestos dust and fibres [ACD] in accordance with the following requirements;

- Relevant Work Health and Safety legislation including but not limited to; Work Health and Safety Regulation 2011 - Chapter 8 - Asbestos; Safe Work NSW - Code of Practice - *How to manage and control asbestos in the workplace*; Safe Work Australia - Code of Practice - *How to safely remove asbestos* and NSW Office of Environment and Heritage [OEH] requirements.
- The person with Management Control of the workplace and the licensed Asbestos Removalist must, so far as is *reasonably practicable*, and before commencing the asbestos [ACM] removal work, consult with and inform the following people about the asbestos [ACM] removal work and when the work will commence, so as to eliminate or minimise the exposure of the risks associated with asbestos:
 - The person who commissioned the asbestos removal work [Site Management]
 - A person conducting a business or undertaking at the workplace [Contractors]
 - The occupants of the domestic premises [Owner or Tenant]
 - Anyone occupying premises in the immediate vicinity of the workplace [Neighbours]
- All work procedures are to be devised as far as is *reasonably practicable*, to minimise the release of dust and fibres [ACD].
- Appropriate warning signage and barricades are to be erected to prevent as far as is *reasonably practicable*, entry of anyone not connected with the removal activity into the work area.
- The sign must be clearly displayed in a prominent visible position at the front of the site; containing the words “**DANGER ASBESTOS REMOVAL IN PROGRESS**” and including the details of the licensed Asbestos Removal Contractor [PCBU].
- When working with products and materials “*that may*” contain asbestos [ACM] all ‘workers’ are to wear personal protective equipment [PPE] including coveralls and approved respiratory protective equipment [RPE] in accordance with the requirements of AS/NZS1716 – *Respiratory Protection devices* and AS/NZS1715- *Selection, use and maintenance of respiratory protective devices*.
- As far as is *reasonably practicable*, use non powered hand tools for the removal of the materials *that may* contain asbestos [ACM] as these generate much less dust [ACD]. **Do not**

use abrasive cutters and sanders, scrub or water blast the surface of products and materials “*that may*” contain asbestos [ACM].

- All products and materials “*that may*” contain asbestos [ACM] are to be kept damp to minimise as far as is *reasonably practicable* the generation of airborne asbestos dust and fibres [ACD]. Prevent and or contain excess run off water.
- Where it is *reasonably practicable* work in well ventilated areas.
- Use drop sheets to collect debris of materials *that may* contain asbestos [ACM]. Dispose of smaller products and materials “*that may*” contain asbestos [ACM] pieces and collected dust [ACD] in recommended heavy duty plastic bags which are clearly labelled “**asbestos waste**”.
- Wet clean or use approved vacuum cleaning equipment [HEPA] which complies with AS/NZS 603335.2.69 – *Industrial vacuum cleaners*. Household vacuum cleaners **must never be used** where asbestos [ACM] or [ACD] is or may be present, even if the unit has a HEPA filter.
- Wall cladding and ceiling lining sheets “*that may*” contain asbestos [ACM] are **not** to be reused.
- All products and materials “*that may*” contain asbestos [ACM] or [ACD] are to be stored, transported and disposed of in accordance with the NSW Protection of the Environment Operations Act [1997 or as amended] and NSW Protection of the Environment Operations [Waste] Regulation [2014]
- All products and materials “*that may*” contain asbestos [ACM] or [ACD] is to be either wrapped in recommended heavy duty plastic sheeting or placed in leak proof lined bins or vehicles and appropriately covered and sealed.
- All products and materials “*that may*” contain asbestos [ACM] or [ACD] are to be stored in a secure area and removed from site as soon as is *reasonably practicable* in a covered leak proof vehicle.
- A Clearance Certificate of Statement, prepared by a suitably *competent person* i.e. an Occupational Hygienist, Safe Work NSW licensed Asbestos Removalist, licensed Asbestos Assessor or a “*competent person*” must be provided to Council upon completion of the works prior to an Occupation Certificate being issued, which confirms that the material “*that may*” contain asbestos [ACM] or [ACD] has been removed appropriately and the relevant Conditions of Consent have been satisfied.
- All products and materials “*that may*” contain asbestos [ACM] or [ACD] are to be disposed of as soon as is *reasonably practicable*, at a licensed asbestos disposal site and in a manner approved by Safe Work NSW, NSW Office of Environment and Heritage [OEH] or HORNSBY SHIRE Council.

Safe Work Method Statement – Removal and Disposal of Ceiling Dust *that may* contain Lead

All Contractors [PCBU] and ‘workers’ involved in the cleaning, repairing or replacement of ceilings are to follow the following procedures in order to minimise as far as is *reasonably practicable*, health risks from the ceiling dust. These procedures include but are not limited to:

- Appropriate warning signage and barricades are to be erected to prevent as far as is *reasonably practicable*, entry of anyone not connected with the removal activity into the work area.
- When working with in ceiling voids containing ceiling dust all ‘workers’ are to wear personal protective equipment [PPE] including coveralls and approved respiratory protective equipment [RPE] in accordance with the requirements of AS/NZS1716 - *Respiratory Protection devices* and AS/NZS1715 - *Selection, use and maintenance of respiratory protective devices*. Eye

protection, complying with AS/NZS1336 and AS/NZS1337 whenever full face respirators are not used

- Ceiling voids are to be cleaned of accumulated dust before commencing any work involving partial or complete removal of the ceiling sheets.
- The property Owner [Client] is to be advised to clear or cover personal effects in adjoining living spaces as far as is *reasonably practicable*.
- Any openings between living areas are to be sealed prior to the commencement of any removal work of ceiling dust “*that may*” contain lead to prevent as far as is *reasonably practicable*, dust entering the retained living areas.
- Use approved vacuum cleaning equipment [HEPA] which complies with AS/NZS 603335.2.69 - *Industrial vacuum cleaners*, to prevent the release as far as is *reasonably practicable*, of dust that may contain lead while it is being removed. **Do not use** household vacuum cleaners even if the unit has a HEPA filter.
- Dispose of the collected dust in approved plastic bags which are clearly labelled.
- All ceiling dust containing lead or other contaminants is to be disposed of as far as is *reasonably practicable* in a manner, and at as site, approved by the Safe Work NSW, NSW Office of Environment and Heritage [OEH], appropriate disposal Authority or HORNSBY SHIRE Council.
- To minimise as far as is *reasonably practicable* contamination of living areas of the residence, airless spraying of PVA to seal the cleaned surfaces is recommended whenever the ceiling is removed.

Safe Work Method Statement – Removal and Disposal of Synthetic Mineral Fibre Insulation

All Contractors [PCBU's] and ‘workers’ involved in the removal of suspected synthetic mineral fibre [SMF] insulation are to follow the following procedures in order to minimise as far as is *reasonably practicable* health risks from synthetic mineral fibre [SMF] insulation. These procedures include but are not limited to:

- Appropriate warning signage and barricades are to be erected to prevent as far as is *reasonably practicable*, entry of anyone not connected with the removal activity into the work area.
- When removing synthetic mineral fibre [SMF] insulation all ‘workers’ are to wear personal protective equipment [PPE] including coveralls and an approved respiratory protective equipment [RPE] in accordance with the requirements of AS/NZS1716 - *Respiratory Protection devices* and AS/NZS1715 - *Selection, use and maintenance of respiratory protective devices*. Eye protection, complying with AS/NZS1336 and AS/NZS1337 whenever full face respirators are not used.
- The property Owner [Client] is to be advised to clear or cover personal effects in adjoining living spaces as far as is *reasonably practicable*.
- Any openings between living areas are to be sealed prior to the commencement of any removal work of synthetic mineral fibre [SMF] insulation to prevent as far as is *reasonably practicable*, dust and fibres entering the retained living areas.
- Use approved vacuum cleaning equipment that complies with AS/NZS 603335.2.69 - *Industrial vacuum cleaners*, to prevent as far as is *reasonably practicable*, the release of dust “*that may*” contain synthetic mineral fibres [SMF] while it is being removed. **Do not use** household vacuum cleaners even if the unit has a HEPA filter.

- Dispose of the synthetic mineral fibre [SMF] insulation in sealed approved plastic bags which are clearly labelled.
- All synthetic mineral fibre [SMF] insulation or other contaminants is to be disposed of as far as is *reasonably practicable*, in a manner, and at a site, approved by Safe Work NSW, NSW Office of Environment and Heritage [OEH], appropriate licensed disposal Authority or HORNSBY SHIRE Council.

Safe Work Method Statement – Lead based Paints

All Contractors [PCBU's] and 'workers' involved in the cleaning, repairing or replacement of suspected lead based paint are to follow the following procedures in order to minimise as far as is *reasonably practicable*, health risks from lead based paints. These procedures include but are not limited to:

- Appropriate warning signage and barricades are to be erected to prevent as far as is *reasonably practicable*, entry of anyone not connected with the removal activity into the work area.
- When working with lead based paints all 'workers' are to wear personal protective equipment [PPE] including coveralls and an approved respiratory protective equipment [RPE] in accordance with the requirements of AS/NZS1716 - *Respiratory Protection devices* and AS/NZS1715 - *Selection, use and maintenance of respiratory protective devices*. Eye protection, complying with AS/NZS1336 and AS/NZS1337 whenever full face respirators are not used.
- The property Owner [Client] is to be advised to clear or cover personal effects in adjoining living spaces as much as is practical.
- Any openings between living areas are to be sealed prior to the commencement of any removal work of lead based paints to prevent as far as is *reasonably practicable*, dust entering the retained living areas.
- Use approved vacuum cleaning equipment [HEPA] which complies with AS/NZS 603335.2.69 - *Industrial vacuum cleaners*, to prevent as far as is *reasonably practicable*, the release of dust that may contain lead while it is being removed. **Do not use** household vacuum cleaners even if the unit has a HEPA filter.
- Dispose of collected lead based paint dust in sealed approved plastic bags which are clearly labelled.
- All dust containing lead or other contaminants is to be disposed of as far as *reasonably practicable* in a manner, and at a site, approved by Safe Work NSW, NSW Office of Environment and Heritage [OEH], appropriate disposal Authority or HORNSBY SHIRE Council.

4. AREAS NOT ASSESSED

All areas associated with the proposed Contract works were able to be assessed.

5. UNDETECTED HAZARDOUS MATERIALS

Due to the level of accessibility including the presence of obstructions the overall degree of risk of **undetected** hazardous materials is considered as far as *reasonably practicable* to be:

Low	✓	Moderate		Moderate to High		High	
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CONFIRMATION

This document confirms that the existing residence layout described in this report has been assessed as far as *reasonably practicable* for the inclusion of hazardous materials i.e. materials “*that may*” contain asbestos [ACM] or [ACD], paints “*that may*” contain lead, ceiling dusts “*that may*” contain lead or synthetic mineral fibres [SMF] in the existing structure.

This assessment and report was carried out by: Mark Spindler

Signed for and on behalf of JONSPIN Building Services Pty. Limited



Mark Spindler

Date of Issue: 20th December 2016