

ASBESTOS MATERIALS REGISTER

Report ID: 28183r2 – Supersedes
28183r1

Prepared for: City of Kalamunda




December 2021

**Building 7010 – Carmel Hall, 152 Carmel Road,
Carmel WA 6076**

Reinspection conducted by City of Kalamunda



Document Revision and Updates

Author	Rev	Date	Signature	Revision Details	Authorised Recipient
Elise Chiappalone	r0	17/09/2021		Original Documentation	Aleck Nortje City of Kalamunda
Elise Chiappalone	R1	4/5/2022		Update following annual inspection conducted by City of Kalamunda. NATA Endorsement removed.	Aleck Nortje City of Kalamunda
Elise Chiappalone	R1	27/06/2022		Demolition details	Aleck Nortje City of Kalamunda

Prior to use of this Register and Management Plan, QED Environmental Services should be contacted to confirm that this is the latest revision. Please phone 1300 400 733 and quote Report ID 28183r2 – Supersedes 28183r1.

The enclosed report has been authorised by the following QED Environmental Services Signatory

Elise Chiappalone

Senior Consultant
 Asbestos Assessor Class A

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ASBESTOS MATERIALS REGISTER

BUILDING 7010 – CARMEL HALL, 152 CARMEL ROAD, CARMEL WA 6076

EXECUTIVE SUMMARY

QED Environmental Services was commissioned by City of Kalamunda to audit the building located at Building 7010 – Carmel Hall, 152 Carmel Road, Carmel WA 6076 (referred to as the “site”). Specifically the scope of works includes the following:

1. Asbestos register

The methodology employed by QED Environmental Services is consistent with the Code of Practice for the Management and Control of Asbestos in workplaces [NOHSC: 2018 (2005)].

The processes and procedures implemented for the initial assessment conducted by QED have been independently assessed by the National Association of Testing Authorities, Australia (NATA).

The following areas specific to this site were inaccessible on this occasion and, therefore, are excluded from this Asbestos Materials Register:

- Roof space

Elise Chiappalone from QED Environmental Services (Asbestos Assessor) conducted the original site inspection on 26 March 2021.

City of Kalamunda’s Asset Inspector (completed CPCBC4023A – *Plan and undertake site inspection and assessment of asbestos products and materials through Australian Training Management*) conducted a reinspection on 7 December 2021. He has not been trained by QED Environmental Services and has not followed procedures in accordance with our quality management system. This report may therefore not be considered to be endorsed under QED’s NATA accreditation. QED accepts no responsibility for the findings of such reinspection which have been incorporated into this report on an as-received and unverified basis.

Carmel hall was demolished in May 2022 with the final inspection clearance conducted by Environmental Site Services (ENVSS) on 17 May 2022.

An Asbestos Management Plan has been prepared separately and is available from City of Kalamunda, Coordinator Building Maintenance, Aleck Nortje – (08) 9257 9682.

Limitations

QED Environmental Services has endeavoured by best practice procedures (and by findings of a reinspection by City of Kalamunda which may not have been by best practice procedures) to locate and identify the presence of Asbestos; however, the findings summarised in this report should not be deemed absolute.

This is a non-intrusive, presumptive survey report and is not to be used for any invasive activity that may result in the disturbance of unidentified asbestos. Such activities may include, but are not limited to: whole or part building demolition, rectification of the HVAC system, lift upgrades, electrical upgrades, slab penetrations, roofing works.

This report has been prepared for the use of the City of Kalamunda, and is not to be relied upon by any third party without prior consultation with QED. QED may not be held responsible by City of Kalamunda or any other party for the findings of a reinspection incorporated in this report. This report is not to be used as a contractual document.

Detailed information regarding the report limitations are described in the Introduction section.

Initial Findings

Asbestos was also identified, suspected or presumed in the following items. Ensure that these remain clearly labelled and regularly inspect to ensure they are not deteriorating or otherwise contributing to an unacceptable health risk:

ID #	Product	Location
1	External Wall Panelling Building demolished	External panels surrounding the building including angled corner moulds and gables.
2	Eave panelling Building demolished	External eaves surrounding the building.
3	Loose Fibre Cement Panelling Building demolished	Under building near entrance.
4	Interior Blue Lower Wall Panelling Building demolished	Interior lower panels (blue) of the hall and entrance.
5	Kitchen Wall Panelling Building demolished	Lower wall panels in the kitchen including behind cupboard.
6	External Toilet Panelling Building demolished	Panels surrounding external toilet block.
7	Internal Toilet Panelling Building demolished	Internal panels to toilet block.
8	Urinal Backing Membrane Building demolished	Male toilets.

None of the materials identified appeared to be adversely impacting on the micro-environment; however, if at any such stage there is a possibility of disturbance before the next inspection (e.g. refits/upgrades to services) a monitoring and removal programme is recommended.

Recommendations

- ~~1. Ideally, wall panelling should be replaced, however, if this is not practicable, damaged panelling throughout the building should be repaired or sealed to improve the condition of the material.~~
- ~~2. Loose panelling underneath the building should be removed in accordance with NOHSC: 2002 (2005).~~
- ~~3. All materials identified as posing a minor risk may remain in situ until requiring replacement although, where practicable, asbestos containing materials should be removed, consistent with the Federal Government's stated ultimate goal of the prohibition of asbestos, which is for all workplaces to be free of asbestos.~~

INTRODUCTION

Scope

In keeping with the appropriate State and Commonwealth Legislation, the scope of this report is to assess the nature and condition of in-situ asbestos-containing materials within the building fabric and general services, and to assess the potential for building occupants to be exposed to airborne asbestos fibres.

The scope of work specified for the site survey excludes invasive investigative techniques and subsequently this report is not to be used in the event of building demolition.

Class of Assessment

The United Kingdom has developed a minimum standard for the surveying and sampling of asbestos containing material in the commercial sector. The standard identifies two types of survey which may be used, depending on the purpose for which the results of the survey are to be used. The two types are:

Management Survey. The assessor locates, as far as reasonably practicable, the location, extent and condition of suspect asbestos containing material (ACM) that may be damaged or disturbed during normal occupancy or foreseeable maintenance activities. This type of survey may involve minor intrusive work and some disturbance. The materials are assessed in relation to their condition and their ability to release fibres into the air.

Refurbishment and Demolition Survey. The assessor locates, as far as reasonably practicable, all asbestos containing materials in the area to be refurbished or demolished. The survey is fully intrusive and will involve destructive inspection. This type of inspection may also be necessary prior to more intrusive maintenance or repair work will be carried out, or where plant is to be removed or dismantled.

The surveys are completed by appropriately trained and experienced surveyors, who assess the following aspects of any ACM identified:

- product type
- location
- extent
- accessibility
- likelihood of disturbance
- amount of damage/deterioration (in the case of the *Refurbishment and Demolition Survey*, this is only required if the asbestos removal may not take place for some time.)

Source: HSG264 *Asbestos: The survey guide* (Health and Safety Executive (2012)).

In this case a *Management Survey* has been used by QED in order to develop the appropriate Asbestos Register and Management Plan. Sampling of materials has been conducted wherever practical. The Asbestos Register and Management Plan also include findings of a reinspection by City of Kalamunda for which QED may not be held responsible.

Sampling during the original inspection was conducted by QED, and the samples deposited at the City of Kalamunda building maintenance office at the works depot. The City of Kalamunda was responsible for the handling of the samples from this time. QED is not liable for breakdown in the chain of custody or other procedural errors or omissions, and is also not liable for sampling and handling of samples during any reinspection.

Methodology

The general methodology employed by QED is consistent with HSG264 *Asbestos: The survey guide* (Health and Safety Executive (2012) and is also in accordance with National Code of Practice for the Control of Workplace Hazardous Substances [NOHSC: 2007(1994)] and *Asbestos* (April 2005) in Workplaces.

Code of Practice for the Management and Control of Asbestos in Workplaces, NOHSC: 2018, (2005) National Occupational Health & Safety Commission, Canberra, April 2005.

This involves 3 phases; Identification, Evaluation and the Control Phase. This report details the Identification and Evaluation Phases, and provides recommendations of the Control Phase. The sampling and assessment of suspect materials was conducted by QED personnel from visible building and plant materials with minimal disturbance, and samples sent to an independent NATA certified laboratory for analysis.

Following a survey by QED, a reinspection was conducted by staff of City of Kalamunda who have not been trained by QED Environmental Services and have not followed procedures in accordance with our quality management system. This report may therefore not be considered to be endorsed under QED's NATA accreditation.

Limitations

Non-destructive sampling is restricted by physical, safety and security constraints of access, and a number of operational limitations, protocols and codes of practice (WorkSafe) that restrict any building inspection.

Note that no inspection can guarantee to identify all materials subject to investigation present in a building, thus due to accessibility and scope constraints there is a possibility that additional Asbestos material may exist within the building which are not identified in the registers. In some instances, materials subject to investigation may be present in inaccessible areas such as:

- Wall cavities
- Locked or blocked off areas
- Beneath floors
- Elevator shafts
- Slabs
- Integral parts of boilers, pumps, machinery, plant and pipework
- Reheat units within air conditioning ducts; and
- Fire doors.

Confirmation of lagged pipework in wall cavities and that which may be “chased” into walls is not possible with a visual inspection in a non-destructive survey. Any scheduled demolition or upgrading works should allow for specific inspections to be undertaken in order to determine if asbestos is present in such areas.

In addition, the following areas specific to this site were inaccessible on this occasion:

- No areas

ASBESTOS MATERIAL REGISTERS


Asbestos Register

Building Address: Building 7010 – Carmel Hall, 152 Carmel Road, Carmel WA 6076

Assessor: Graeme Clarke


Date of Assessment: 7 December 2021

ID 1:- External Wall Panelling (Demolished)	
Material	Chrysotile, amosite and crocidolite asbestos detected.
Lab No.	Eurofins ARL Lab No. 21-10098-216
QED Sample No.	ID: 28145
Locations	External panels surrounding the building including angled corner moulds and gables.
Condition	N/A.
Signage	N/A.
Potential for Disturbance	N/A.
Risk	N/A.
Management Actions	N/A.
References (See Appendices)	N/A.
Service Record	Building Demolished. Company: Hill Top Group Date: May 2022 Works: Demolition and removal of old house with ACM walls Clearance certificate: Environmental Site Services (ENVSS) - ENVSS_0012202_HAZ_VCC_01_2022517




Photos from March 2021 inspection.

ID 2:- Eave Panelling (Demolished)	
Material	Chrysotile, amosite and crocidolite asbestos detected.
Lab No.	As per Eurofins ARL Lab No. 21-10098-216
QED Sample No.	ID: 28145
Locations	External eaves surrounding the building.
Condition	N/A.
Signage	N/A.
Potential for Disturbance	N/A.
Risk	N/A.
Management Actions	N/A.
References (See Appendices)	N/A.
Service Record	Building Demolished. Company: Hill Top Group Date: May 2022 Works: Demolition and removal of old house with ACM walls Clearance certificate: Environmental Site Services (ENVSS) - ENVSS_0012202_HAZ_VCC_01_2022517






Photos from March 2021 inspection.

ID 3:- Loose Fibre Cement Panelling (Demolished)	
Material	Suspected asbestos containing material.
Lab No.	Unable to obtain suitable sample (material under building).
QED Sample No.	N/A.
Locations	Under building near entrance.
Condition	N/A.
Signage	N/A.
Potential for Disturbance	N/A.
Risk	N/A.
Management Actions	N/A.
References (See Appendices)	N/A.
Service Record	Building Demolished. Company: Hill Top Group Date: May 2022 Works: Demolition and removal of old house with ACM walls Clearance certificate: Environmental Site Services (ENVSS) - ENVSS_0012202_HAZ_VCC_01_2022517




Photos from March 2021 inspection.


ID 4:- Interior Blue Lower Wall Panelling (Demolished)	
Material	Chrysotile and amosite asbestos detected.
Lab No.	Eurofins ARL Lab No. 21-10098-217
QED Sample No.	ID: 28146
Locations	Interior lower panels (blue) of the hall and entrance.
Condition	N/A.
Signage	N/A.
Potential for Disturbance	N/A.
Risk	N/A.
	 <p>Photos from March 2021 inspection.</p>
Management Actions	N/A.
References (See Appendices)	N/A.
Service Record	Building Demolished. Company: Hill Top Group Date: May 2022 Works: Demolition and removal of old house with ACM walls Clearance certificate: Environmental Site Services (ENVSS) - ENVSS_0012202_HAZ_VCC_01_2022517

ID 5:- Kitchen Wall Panelling (Demolished)		
Material	Chrysotile, amosite asbestos detected.	
Lab No.	Eurofins ARL Lab No. 21-10098-217	
QED Sample No.	ID: 28146	
Locations	Lower wall panels in the kitchen including behind cupboard.	
Condition	N/A.	
Signage	N/A.	
Potential for Disturbance	N/A.	
Risk	N/A.	 <p>Photos from March 2021 inspection.</p>
Management Actions	N/A.	
References (See Appendices)	N/A.	
Service Record	Building Demolished. Company: Hill Top Group Date: May 2022 Works: Demolition and removal of old house with ACM walls Clearance certificate: Environmental Site Services (ENVSS) - ENVSS_0012202_HAZ_VCC_01_2022517	

ID 6:- External Toilet Panelling (Demolished)	
Material	Chrysotile and amosite asbestos detected.
Lab No.	Eurofins ARL Lab No. 21-10098-220
QED Sample No.	ID: 28150
Locations	Panels surrounding external toilet block.
Condition	N/A.
Signage	N/A.
Potential for Disturbance	N/A.
Risk	N/A.
Management Actions	N/A.
References (See Appendices)	N/A.
Service Record	Building Demolished. Company: Hill Top Group Date: May 2022 Works: Demolition and removal of old house with ACM walls Clearance certificate: Environmental Site Services (ENVSS) - ENVSS_0012202_HAZ_VCC_01_2022517



Photos from March 2021 inspection.

ID 7:- Internal Toilet Panelling (Demolished)		
Material	Chrysotile and amosite asbestos detected.	
Lab No.	Eurofins ARL Lab No. 21-10098-220	
QED Sample No.	ID: 28151	
Locations	Internal panels to toilet block.	
Condition	N/A.	
Signage	N/A.	
Potential for Disturbance	N/A.	
Risk	N/A.	<p>Photos from March 2021 inspection.</p>
Management Actions	N/A.	
References (See Appendices)	N/A.	
Service Record	Building Demolished. Company: Hill Top Group Date: May 2022 Works: Demolition and removal of old house with ACM walls Clearance certificate: Environmental Site Services (ENVSS) - ENVSS_0012202_HAZ_VCC_01_2022517	





ID 8:- Urinal Backing Membrane (Demolished)	
Material	Suspected asbestos containing material.
Lab No.	Unable to sample (encapsulated)
QED Sample No.	N/A.
Locations	Male toilets
Condition	N/A.
Signage	N/A.
Potential for Disturbance	N/A.
Risk	N/A.
Management Actions	N/A.
References (See Appendices)	N/A.
Service Record	Building Demolished. Company: Hill Top Group Date: May 2022 Works: Demolition and removal of old house with ACM walls Clearance certificate: Environmental Site Services (ENVSS) - ENVSS_0012202_HAZ_VCC_01_2022517




Photos from March 2021 inspection.



Sampled Materials Not Containing Asbestos

Item Description	Lab No.	Location			Comments
Under Sink Membrane	Eurofins ARL Lab No. 21-10098-218 QED ID: 28148	Under sink in kitchen area.			No asbestos detected. Organic fibres detected.
Corner Infill Panelling	Eurofins ARL Lab No. 21-10098-219 QED ID: 28149	Panels in corners of hall.			No asbestos detected. Organic fibres detected.

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ARL

Job Number: 21-10098
Revision: 00
Date: 2 July 2021

LABORATORY REPORT

ADDRESS: City of Kalamunda
PO Box 42
Kalamunda WA 6928


ATTENTION: Jonathan Smith


DATE RECEIVED: 1/08/2021

YOUR REFERENCE: LHACC Kalamunda sampling

PURCHASE ORDER:

APPROVALS:


Ivan Hodgson
Approved Identifier


Ivan Hodgson
Approved Signatory

SAMPLING COMMENTS:

Samples are analysed on an "as received" basis

METHOD REFERENCES:

Method ID	Method Description
ASBID	Qualitative identification of fibre type in bulk samples by Stereo Microscope Examination and Polarised Light Microscopy, including Dispersion Staining, using ARL in-house method ASBID and in accordance with AS4964-2004.


REPORT COMMENTS:

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* The fibres detected may or may not be asbestos fibres. To confirm the identities, another independent analytical technique may be required.

RESULTS:


Sample No	Sample Details	Sample Type	Sample Weight (Approx. g)	Asbestos in Bulk Sample
21-10098-1				
21-10098-2				
21-10098-3				
21-10098-4				
21-10098-5				
21-10098-6				
21-10098-7				
21-10098-8				
21-10098-9				



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Sample No	Sample Details	Sample Type	Sample Weight (Approx. g)	Asbestos In Bulk Sample
21-10098-10				
21-10098-11				
21-10098-12				
21-10098-13				
21-10098-14				
21-10098-15				
21-10098-16				
21-10098-17				
21-10098-18				
21-10098-19				
21-10098-20				
21-10098-21				
21-10098-22				
21-10098-23				
21-10098-24				
21-10098-25				
21-10098-26				
21-10098-27				
21-10098-28				
21-10098-29				
21-10098-30				
21-10098-31				
21-10098-32				
21-10098-33				
21-10098-34				
21-10098-35				
21-10098-36				
21-10098-37				
21-10098-38				
21-10098-39				

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Sample No	Sample Details	Sample Type	Sample Weight (Approx. g)	Asbestos in Bulk Sample
21-10098-40				
21-10098-41				
21-10098-42				
21-10098-43				
21-10098-44				
21-10098-45				
21-10098-46				
21-10098-47				
21-10098-48				
21-10098-49				
21-10098-50				
21-10098-51				
21-10098-52				
21-10098-53				
21-10098-54				
21-10098-55				
21-10098-56				
21-10098-57				
21-10098-58				
21-10098-59				
21-10098-60				
21-10098-61				
21-10098-62				
21-10098-63				
21-10098-64				
21-10098-65				
21-10098-66				
21-10098-67				
21-10098-68				

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Sample No	Sample Details	Sample Type	Sample Weight (Approx. g)	Asbestos in Bulk Sample
21-10098-69				
21-10098-70				
21-10098-71				
21-10098-72				
21-10098-73				
21-10098-74				
21-10098-75				
21-10098-76				
21-10098-77				
21-10098-78				
21-10098-79				
21-10098-80				
21-10098-81				
21-10098-82				
21-10098-83				
21-10098-84				
21-10098-85				
21-10098-86				
21-10098-87				
21-10098-88				
21-10098-89				
21-10098-90				
21-10098-91				
21-10098-92				
21-10098-93				
21-10098-94				

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Sample No	Sample Details	Sample Type	Sample Weight (Approx. g)	Asbestos in Bulk Sample
21-10098-95				
21-10098-96				
21-10098-97				
21-10098-98				
21-10098-99				
21-10098-100				
21-10098-101				
21-10098-102				
21-10098-103				
21-10098-104				
21-10098-105				
21-10098-106				
21-10098-107				
21-10098-108				
21-10098-109				
21-10098-110				
21-10098-111				
21-10098-112				
21-10098-113				
21-10098-114				
21-10098-115				
21-10098-116				
21-10098-117				
21-10098-118				
21-10098-119				
21-10098-120				
21-10098-121				

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Sample No	Sample Details	Sample Type	Sample Weight (Approx. g)	Asbestos in Bulk Sample
21-10098-122				
21-10098-123				
21-10098-124				
21-10098-125				
21-10098-126				
21-10098-127				
21-10098-128				
21-10098-129				
21-10098-130				
21-10098-131				
21-10098-132				
21-10098-133				
21-10098-134				
21-10098-135				
21-10098-136				
21-10098-137				
21-10098-138				
21-10098-139				
21-10098-140				
21-10098-141				
21-10098-142				
21-10098-143				
21-10098-144				
21-10098-145				
21-10098-146				
21-10098-147				
21-10098-148				

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Sample No	Sample Details	Sample Type	Sample Weight (Approx. g)	Asbestos in Bulk Sample
21-10098-149				
21-10098-150				
21-10098-151				
21-10098-152				
21-10098-153				
21-10098-154				
21-10098-155				
21-10098-156				
21-10098-157				
21-10098-158				
21-10098-159				
21-10098-160				
21-10098-161				
21-10098-162				
21-10098-163				
21-10098-164				
21-10098-165				
21-10098-166				
21-10098-167				
21-10098-168				
21-10098-169				
21-10098-170				
21-10098-171				
21-10098-172				
21-10098-173				
21-10098-174				
21-10098-175				
21-10098-176				

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Sample No	Sample Details	Sample Type	Sample Weight (Approx. g)	Asbestos in Bulk Sample
21-10098-177				
21-10098-178				
21-10098-179				
21-10098-180				
21-10098-181				
21-10098-182				
21-10098-183				
21-10098-184				
21-10098-185				
21-10098-186				
21-10098-187				
21-10098-188				
21-10098-189				
21-10098-190				
21-10098-191				
21-10098-192				
21-10098-193				
21-10098-195				
21-10098-196				
21-10098-197				
21-10098-198				
21-10098-199				
21-10098-200				
21-10098-201				
21-10098-202				
21-10098-203				
21-10098-204				
21-10098-205				
21-10098-206				

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Sample No	Sample Details	Sample Type	Sample Weight (Approx. g)	Asbestos in Bulk Sample
21-10098-207				
21-10098-208				
21-10098-209				
21-10098-210				
21-10098-211				
21-10098-212				
21-10098-213				
21-10098-214				
21-10098-215				
21-10098-216	Carmel Hall - 1	Grey Layered fibre Cement	2.0	Chrysotile Asbestos Detected Amosite Asbestos Detected Crocidolite Asbestos Detected
21-10098-217	Carmel Hall - 2	Grey Layered fibre Cement	1.0	Chrysotile Asbestos Detected Amosite Asbestos Detected
21-10098-218	Carmel Hall - 3	Brown Bituman	4.0	No Asbestos Detected Organic Fibres Detected
21-10098-219	Carmel Hall - 4	Brown Compressed Material	0.5	No Asbestos Detected Organic Fibres Detected
21-10098-220	Carmel Hall - 5	Grey Layered fibre Cement	0.2	Chrysotile Asbestos Detected Amosite Asbestos Detected
21-10098-221	Carmel Hall - 6	Grey Layered fibre Cement	1.0	Chrysotile Asbestos Detected Amosite Asbestos Detected
21-10098-222				

NB. Results not related to this report have been redacted from the above laboratory certificate of analysis.

DEMOLITION CLEARANCE CERTIFICATE

Environmental Site Services (AUS)
TIA Environmental Site Services
ABN: 33590521277
ACN: 168142247
Office: 43 Stiles Avenue, Burswood WA 6100
Postal: PO Box 440, Wembley WA 6913
P: (08) 9355 4010
Email: admin@envss.com.au
Web: www.environmentalsiteservices.com.au



Tuesday May 17, 2022
Reference: ENVSS_0012202_HAZ_VCC_01_2022517

Geoff Van Der Draai
Hill Top Group
P: 0438003983
E: geoff@hilltop-group.com

Subject: Asbestos Clearance at 152 Carmel Road, Carmel

Dear Geoff,

This is to certify that Jack Dacheff (Environmental Technician) of Environmental Site Services (ENVSS) was engaged by Hill Top Group (Client) to attend the subject site on May 17, 2022 at 11:15 am to conduct a Visual Clearance Inspection, post Asbestos Containing Material (ACM) removal works. The inspection was conducted at 152 Carmel Road, Carmel.

The Client's scope, as explained to ENVSS, was to conduct the following works:

- Demolition and removal of old house with ACM walls

On inspection of the site, the materials within the scope had been removed satisfactorily and no visible ACM or debris associated with the scope was identified within or adjacent to these areas.

The inspection was conducted in the form of a visual inspection, as required under the national code and the accepted method for clearance certification purposes, where safe to do so.

No surface sampling was undertaken at this time.

The visual inspection was undertaken to locate asbestos debris associated with above scope only and is not a clearance of the site as having:

- No microscopic fibres still present; or
- Further works required or asbestos materials that are not associated with the removal work.

The inspection was completed in a thorough and conscientious manner, with no warranty expressed or implied. This certificate should only be presented in full and may not be used to support any other objective other than that agreed between Hill Top Group and Environmental Site Services.

If you have any questions or require any further information, please do not hesitate to contact me.

For and on behalf of Environmental Site Services.

Jack Dacheff
Environmental Technician
Environmental Site Services



Appendix A – Photographs



 Environmental
Site Services



GLOSSARY OF TERMS

Accredited Laboratory: Means a testing laboratory accredited by the National Association of Testing Authorities (NATA) Australia

Asbestos: Includes chrysotile, amosite, crocidolite, tremolite, anthophyllite, actinolite, and any of these minerals that has been chemically treated and/or altered.

ACM: Asbestos-containing material.

Asbestos Management Planner: Means a person employed to interpret survey results make hazard assessment, evaluation and selection of control options or develop an operation and maintenance plan.

Authorised Person: Means any person authorized by the employer and required by work duties to be present in regulated areas.

Code of Practice: A code of practice is defined in the Occupational Health and Safety Act as a document prepared for the purpose of providing:

- practical advice on preventive strategies; and
- practical means of achieving any code, standard, rule, provision or specification relating to occupational safety or health in Western Australia.

Competent Person: Means a person who is capable of identifying existing asbestos hazards in the workplace and selecting the appropriate control strategy for asbestos exposure

Demolition: Means the wrecking or taking out of any load-supporting structural member and any related razing, removing, or stripping of products.

Disturbance: Means activities that disrupt the matrix of ACM or PACM, crumble or pulverize ACM or PACM, or generate visible debris from ACM or PACM. This term includes activities that disrupt the matrix of ACM or PACM, render ACM or PACM friable, or generate visible debris.

Encapsulate: Means the application of any material onto any asbestos containing material to bridge or penetrate the material to prevent fibre release.

Enclosure: Means the permanent confinement of friable asbestos containing materials with an airtight barrier in an area not use or designed as an air plenum.

Fibre: Means a particulate form of asbestos, 5 micrometres or longer, with a length-to-diameter ratio of at least 3 to 1

Friable: Means material which is capable of being crumbled, pulverized or reduced to powder by hand pressure and which under normal use or maintenance, emits or can be expected to emit, asbestos fibres into the air

Hazard: A source of potential harm or a situation with a potential to cause loss

Hazard Identification: The process of recognizing that a hazard exists and defining its characteristics.

High efficiency particulate air (HEPA) filter: Means a filter capable of trapping and retaining at least 99.97 percent of all particles at least 0.3 micrometres or more in diameter.

Incident: Any unplanned event resulting in, or having a potential for injury, ill-health, damage or other loss.

Likelihood: Used as a qualitative description of probability or frequency.

NAD – No Asbestos Detected: A common abbreviation reported when laboratory analysis for asbestos fibres has detected no asbestos fibres.

Presumed: Taken for granted. Used when it is taken for granted that the item contains the nominated hazardous material. This presumption is based on the belief that the item is the same as another that has been tested and confirmed to contain the nominated hazardous material (e.g. one sheet lining the eaves has been sampled and confirmed to contain asbestos, the one next to it is presumed to contain asbestos) or, by visual observation, the item is determined to contain the hazardous material. Conversely, an item can be presumed *not* to contain a hazardous material. This may presumption is typically based on the belief that, due to the age and type of the material or building i.e. >2004, it should not contain asbestos.

Regulations: Regulations have the effect of spelling out specific requirements of the legislation. Regulations may prescribe minimum standards and have a general application, or define specific requirements related to a particular hazard or particular type of work. They may also allow licensing or granting of approvals and certificates etc.

Removal: Means all operations where ACM and/or PACM are taken out or stripped from structures or substrates, and includes demolition operations.

Renovation: Means the modifying of any existing structure, or portion thereof

Risk: The chance of something happening that will have an impact. It is measured in terms of consequences and likelihood

Risk Analysis: A systematic use of available information to determine how often specified events may occur and the magnitude of their consequences

Risk Assessment: The overall process of risk analysis and risk evaluation

Risk Evaluation: The process used to determine risk management priorities by comparing the level of risk against predetermined standards, target risk levels or other criteria

Suspected: Thought to be likely. Used when the item is likely to contain the nominated hazardous material because it appears to be similar to items that historically have been found to contain that material (e.g. the eaves appear to be similar to other buildings of a similar age, which have been confirmed to contain asbestos). All suspected hazardous materials must be treated as though they are hazardous unless sampling and analysis demonstrates otherwise.

ASBESTOS MATERIAL REGISTER COMPOSITION & RISK ASSESSMENT

The Workplace Registers

Since 1996, owners & employers have been required to record and maintain a "register" of Asbestos Materials in the workplace.

Regulation 3.1, 5.15 & 5.43 of OHS Regs 1996 requires the employer, main contractor, any self-employed person or the person having control of the workplace to identify each hazard, assess the risk of injury or harm to a person resulting from each hazard and consider the means by which the risk may be reduced.

Content

In keeping with the code at a minimum the register should contain five critical parameters, nominally:

Location

Identification

Condition

Risk Assessment

Control Measures

Additionally there are three phases to an Asbestos materials workplace register: -

Identification Phase

Evaluation Phase

Control Phase

Identification Phase

The identification phase is based on observations, findings, and substance samples, from a systematic inspection of the building structure, tenancy areas, plant rooms, services risers, lift motor rooms, ceiling spaces, car parking and basement areas, and general areas accessible through the supplied keying system.

Simplistically, the methodology involves a multi-step process:

1. Retrieve and review building documentation (if available)
2. Develop an investigation procedure
3. Commence the building inspection, record findings and obtain samples
4. Laboratory test and/or analyse samples

Identification and subsequent classification of substances, is by visual examination and laboratory assessments from samples of substances that are, or may be, installed, used, produced or stored in the workplace.

Generally, samples are taken from “suspect” accessible fixtures, fittings and process products, specifically in the absence of local identification, MSD Sheets, labels and/or, on site registers.

Such samples are sent, under code, to independent laboratories for identification and, subsequently, are assessed, classified and recorded in the workplace register.

Evaluation Phase

The evaluation phase is based on observations from site and the analysis of samples reported from the independent NATA accredited laboratory.

In reviewing Asbestos substances and asbestos, it is important to understand the terms **hazard** and **risk**, which in everyday use are commonly used as synonyms, but not so in industrial hygiene, where the difference is significant.

A hazard is something or condition, which has the capability of producing adverse health or safety consequences to humans. The mere presence of the capability to harm is sufficient to classify a substance, action, or condition as a hazard or to describe such as Asbestos.

Risk is a statement, either quantitative, via statistical expression, or qualitative, via subjective expression, of the probability or likelihood that harm will actually occur.

For example, asbestos insulation in a building presents a hazard, but the risk is nil if no asbestos is released into the air.

Asbestos within Buildings is evaluated using the following;

- Existing condition
- Potential for disturbance
- Subsequent risk of exposure and risk to health

Existing Condition is assessed and rated 1 to 5 from Good to Poor.

5	Poor: Surface of material has extensive amounts of damage or deterioration and appears friable. Surface covering of material is heavily torn or in poor condition (paint heavily flaking, insulation is extensively torn). Surface shows amounts of visible fibres, dust and debris.
4	Fair to Poor
3	Fair: Surface of material shows moderate amounts of damage. Surface covering of material is torn or in moderately poor condition (small flakes of paint, thermal insulation is torn). Moderate amount of visible dust and debris.
2	Good to Fair
1	Good: Surface of material shows no visible amounts of damage or deterioration. Surface of material is covered and generally intact (painted, galvanised, coated with bitumen, thermal insulation is intact). Small amount of visible dust and debris.

Potential for disturbance is then assessed based on influencing factors, such as:

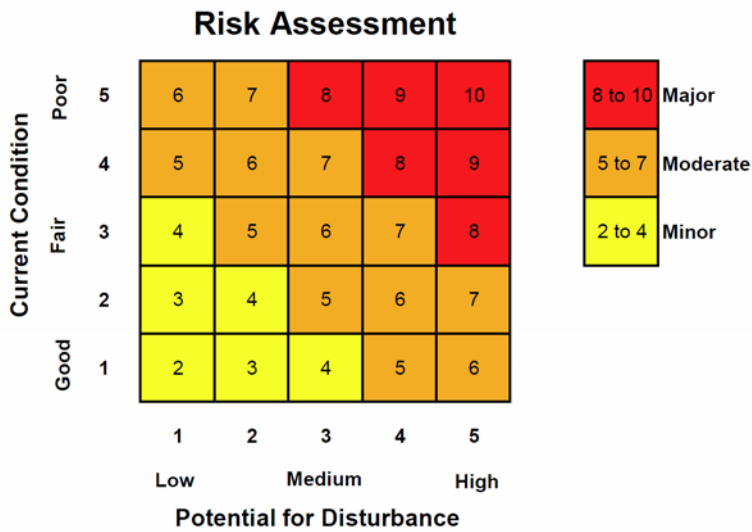
Score 0 or 1 No = 0 Yes = 1	Typical Influencing Factors
	Accessible during normal operations? i.e. common areas, accessible without ladders or steps, area unsecured
	Maintenance activities on/or in area? i.e. regularly accessed and serviced, servicing requires use of electric tools
	Subjected to Mechanical Influences? i.e. vibration of machinery, involved with moving parts, within the HVAC air supply stream, subjected to mechanical exhaust
	Subjected to Environmental Influences? i.e. weathering, rainfall, surface runoff, wind, river and coastal influences
	No Current Management Plan (<1 year), Not labelled (Score 1 for not adequately managed, Score 0 for adequately managed)

Score ≤1 Low potential for disturbance

Score 3 Medium potential for disturbance

Score 5 High potential for disturbance

The inherent risk is then calculated using the risk assessment matrix.



The Code of Practice for the Management of Asbestos in Workplaces defines a required action that must be undertaken, dependent on the level of risk. They are:

For inherent risks rated at 2 to 4: The ACM are not friable and are in stable condition. In accordance with [NOHSC: 2018 (2005)], ensure that they remain clearly labelled and regularly inspect to ensure they are not deteriorating or otherwise contributing to an unacceptable health risk.

For inherent risks rated at 5 to 7: IMMEDIATE ACTION REQUIRED. The ACM are friable but are in a stable condition and are accessible. In accordance with [NOHSC: 2018 (2005)], serious consideration should be given to their removal. If removal is not immediately practicable, short-term control measures, such as sealing and enclosure, may be able to be used until removal is possible. [NOHSC: 2018 (2005)].

For inherent risks rated at 8 to 10: IMMEDIATE ACTION REQUIRED. The ACM are friable and not in a stable condition, and there is a risk to health from exposure. In accordance with [NOHSC: 2018 (2005)], they should be removed by an appropriately licensed asbestos removalist as soon as is practicable.

When materials of unknown composition, or materials suspected of containing asbestos, are encountered, and are not listed in the Workplace Register, such materials should be treated as if they are asbestos until sample analysis confirms otherwise.

In the event that additional Asbestos materials are identified, a risk assessment should be conducted by an appropriately qualified and competent person, and the workplace register updated accordingly.

Control Phase

The “Hierarchy of Control Measures” is a list, in priority order, of control measures that may be employed to eliminate and/or reduce exposure to asbestos.

Notwithstanding elimination as the optimum solution, practical and cost effective control measures may be “and/or” classified as follows: -

Classification	Description
A – Elimination	A permanent solution should be attempted in the first instance.
B – Substitution	Involves replacing the material with a product that presents a lower and/or no risk.
C – Isolation	Isolation involves separation of the material from people by distance or use of barriers /encapsulation to prevent exposure.
D – Engineering Controls	Involves some structural change to the work environment or work process to place a barrier to, or interrupt the transmission path between, the worker or environment and the Asbestos material aspect. i.e. isolation and/or enclosure and/or sealing of the Asbestos material.
E – Administrative (procedural) Controls	Reduce or eliminate exposure of individuals to the Asbestos materials, by adherence to procedures or instructions. The documentation should emphasize all the steps to be taken and the controls to be used in carrying out the task both safely and with minimum impact to the environment.
F – Personal Protective Equipment (PPE)	Relates only to hazards and their impact on personal safety risks. It is worn as a barrier between personnel and the Asbestos material. The success of this control procedure is dependent on the protective equipment selected, as well as fitted correctly and worn at all times when required.