

Occuhealth

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Asbestos Survey



Brookton Memorial Hall

Survey Date: 3rd of October 2019

Compiled by: Ethan Norris

Asbestos Inspection Assessor

8th of October 2019

Contents

1	Executive Summary	3
2	Methodology	3
3	Description of Workplace	3
3.1	Building Description	3
Appendix 1a: Asbestos Register		4
ACM Register Key.....		6
Appendix 2: Reference Pictures.		7

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1 Executive Summary

This report details the findings from the review of asbestos containing material (ACM) at the Brookton Memorial Hall, Brookton

As per the Code of Practice for the Management and Control of Asbestos in Workplaces [NOHSC: 2018(2005)] risk assessments shall be reviewed on a regular basis and company asbestos registers updated, to prevent exposure to airborne asbestos fibres while asbestos containing material (ACM) remains in the workplace. This Review took place on the 3rd of October 2019.

Specifically, this report is to identify the following;

- Is there ACM present on site.
- Is the ACM in good condition, enclosed or sealed.

2 Methodology

In accordance with the Code of Practice for the Management and Control of Asbestos in Workplaces [NOHSC: 2018(2005)], a survey was conducted on the 3rd of October 2019 to locate asbestos containing material. Within the qualitative assessment, the potential health risks to the building occupants and whether the type of work or location of the work is likely to cause disturbance to the asbestos material was determined.

Samples were taken from various locations around the premises. Observations on the condition of the material and judgement on the stability have been made to the following areas:

- Walls Ceiling and Lino in the Projector Room.
- East wall and ceiling in the stairwell.
- Wall and ceiling of the Equipment Room.
- Kitchen area.
- South wall of the Main Hall.

3 Description of Workplace

3.1 Building Description

The Brookton Memorial Hall consists of an entry and foyer area and the lesser hall that was built in 1911 and to the west is the store room (built in 1905). The main hall and stage were built in 1956 and a kitchen was added in 1979.

The building is predominately a large brick construction with a Colourbond roof.

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Appendix 1: Asbestos Register

Location & Item description	Hazard Type	Photo ref#	Material I.D	Material Condition	Friability	Estimate Quantity	Disturbance potential	Risk Rating	Label	Control Priority	Control recommendation/ comments	Status	Record work undertaken
Projector room wall	Chrysotile Amosite	1	Panels	Poor, unsealed, damaged in some areas	Friable	10 - 50m ²	Medium	1	No		Removal or sealing the panels will control	Open	
Projector room ceiling	Chrysotile Amosite	1	Panels	Poor, unsealed, damaged in some areas	Friable	10 - 50m ²	Medium	1	No		Removal or sealing the panels will control	Open	
Switchboards (3)	Presumed ACM from previous survey	1	Zelenite	Good	Non-friable	<1m ²	Low	3	No		Remove when convenient	Open	
Projector room lino,	No asbestos detected	1										Closed	N/A
Stairwell ceiling and wall panel	No asbestos detected	2										Closed	N/A
Side entrance switchboard	Presumed ACM from previous survey	3	Zelenite	Good	Non-friable	<1m ²	Low	3	No		Remove when convenient	Open	
Side entrance lino	No asbestos detected	3										Closed	N/A
Side entrance sink	Presumed ACM from previous survey	N/A	Black material under sink	Good	Non-friable	<1m ²	Low	3	No		Remove when convenient	Open	
Equipment room walls	Chrysotile Amosite	4	Panels	Poor, sealed but damaged in some areas	Friable	10 - 50m ²	Medium	2	No		Removal or sealing the panels will control	Open	
Equipment room ceiling	No asbestos detected	4										Closed	N/A
Main hall south wall above entry	No asbestos detected	5										Closed	N/A

N/A denotes – not applicable

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Location & Item description	Hazard Type	Photo ref#	Material I. D	Material Condition	Friability	Estimate Quantity	Disturbance potential	Risk Rating	Label	Control Priority	Control recommendation/ comments	Status	Record work undertaken
Main kitchen sink	Presumed ACM from previous survey	6	Black material under sink	Good	Non-friable	<1m ²	Low	3	No		Remove when convenient	Open	
Stage change room walls	No asbestos detected	7										Closed	N/A
Stage switchboard	Presumed ACM from previous survey	N/A	Zelemitite	Good	Non-friable	<1m ²	Low	3	No		Remove when convenient	Open	
North external gable end	Chrysotile Amosite	8	Panels	Sealed, good condition	Non-friable	10 - 50m ²	Low	3	No		Removal or sealing the panels will control	Open	
West gable end on roof	Chrysotile Amosite	9	Panels	Sealed, good condition	Non-friable	10 - 50m ²	Low	3	No		Removal or sealing the panels will control	Open	
Building eaves	Presumed ACM from previous survey	10	Panels	Good, broken in some areas	Non-friable	<1m ²	Low	3	No		Remove when convenient	Open	

ACM Register Key

Location & item description lists the location and description of the material inspected/sampled.

Hazard type indicates the type of hazard identified (asbestos, SMF).

Photo ref # corresponds to the photo of the material inspected/sampled provided in the report.

Material I.D confirms the type of asbestos (chrysotile/amosite/crocidolite) if sampled. Where a sample has not been taken a professional assessment of the material has been provided i.e. assumed to contain/not contain asbestos.

Material condition indicates the condition of the material and considers the potential of exposure to personnel:

Good: The material is not damaged and is showing little or no signs of deterioration, exposure could result from physically breaking, drilling or significantly disturbing the material.

Fair: The material is slightly damaged and is beginning to show signs of deterioration, exposure could result from further damage or minor disturbance.

Poor: The material is badly damaged and/or showing significant signs of deterioration, exposure could occur from normal use.

Risk Rating takes into consideration the condition, location, disturbance potential, friability etc of the ACM'S in order to prioritise abatement works.

Risk Rating 1 – Hazard with a high risk potential – There is a high potential for exposure to asbestos fibres or for fibres to be generated during normal use. Should be controlled first.

Risk Rating 2 – Hazard with a medium risk potential – There is a risk of exposure to asbestos fibres only if works will disturb the ACM'S or if it is damaged and in a sensitive location (air handling units). Should be programmed second but may be managed in-situ if it can be stabilised.

Risk Rating 3 – Hazard with a low risk potential – There is a risk of exposure to asbestos fibres only during maintenance or during dismantling, demolition, repair or alteration of ACM'S.

Label provided if the material is already confirmed or assumed to contain asbestos a sticker outlining the presence of asbestos should be in location.

Friability Indicates whether the ACM'S were friable (can be easily crumbled, pulverised or reduced to powder by hand pressure). Friable materials are generally a greater risk than non friable if not managed correctly.

Estimated Quantity is an estimation of the size in square (m²) of the documented ACM or Suspected ACM. Value ranges. <1m²: 1-10m²; 10-50m²; >50m²

Disturbance Potential indicates the potential for the ACM'S to be disturbed by personnel or work undertaken in the area.

High – ACM'S were in a location where work is undertaken or personnel are accessing in a way that may disturb the ACM'S regularly (daily).

Medium – ACM'S were in a location where work is undertaken or personnel are accessing in a way that may disturb the ACM'S infrequently (weekly/monthly).

Low – ACM'S were in a location where work is undertaken or personnel are accessing in a way that may disturb the ACM'S rarely (yearly or greater).

Control priority provides a numerical value that refers to the priority order in which control or removal work should be undertaken. Number 1 represents the most significant hazard and should be considered an immediate priority whilst successive numbers suggest an order for ongoing maintenance and improvement work.

Note: Friability, Estimated Quantity, Risk rating, Disturbance Potential, and Control Priority does not apply to the Non-Asbestos Materials documented in this ACM register.

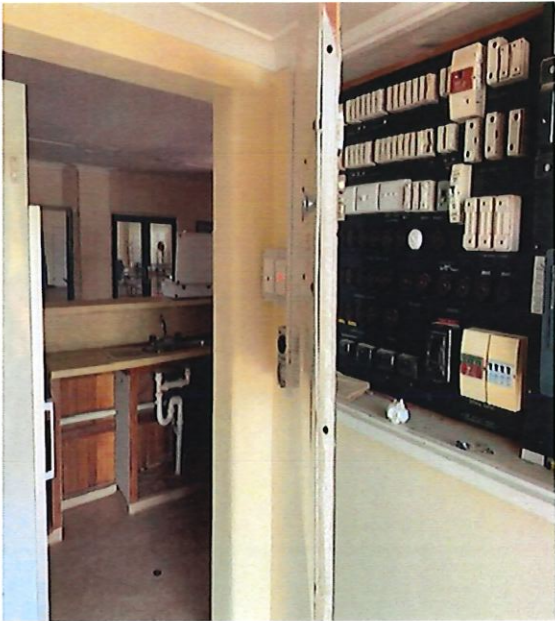
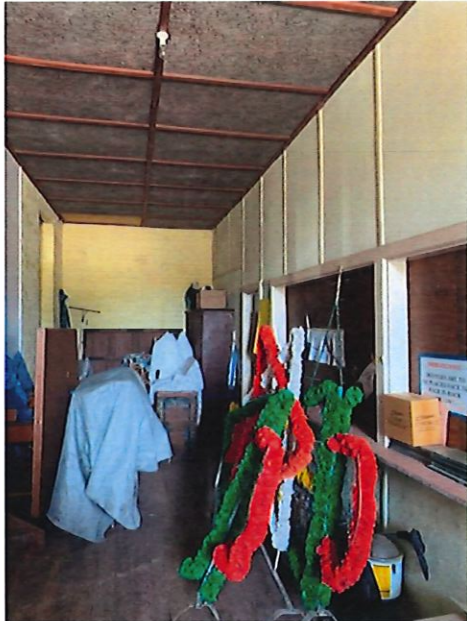
Control recommendations/comments provide specific recommendations in order to manage and/or stabilise the material.

Status where asbestos was not identified or the asbestos was entirely removed the STATUS column will indicate "Closed". If the asbestos remains the STATUS column will indicate "Open" and further action is required.

Records/work undertaken lists any available records or work which is planned to occur.

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Appendix 2: Reference Pictures.

Reference picture 1: Projector room	Reference picture 2: Stairwell ceiling and walls
	
Reference picture 3: Side entrance switchboard, lino and sink.	Reference picture 4: Equipment room walls and ceiling.
	

Reference picture 5:
Main hall south wall.



Reference picture 6:
Underside of kitchen sink.



Reference picture 7:
Stage change room walls.



Reference picture 8:
North gable end (external).



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Reference picture 9:
West gable end on roof.



Reference picture 10:
Building eaves.



Occuhealth Pty Ltd
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WA 6210



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Accreditation Number 1261
Site Number 23736

Accredited for compliance with ISO/IEC 17025-Testing
 The results of the tests, calibrations and/or
 measurements included in this document are traceable
 to Australian/national standards.

Attention: Ethan Norris
Report 680554-AID
Project Name **BROOKTON MEMORIAL HALL**
Project ID **RC CONSULTING**
Received Date Oct 03, 2019
Date Reported Oct 04, 2019

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 BROOKTON MEMORIAL HALL
Project ID RC CONSULTING
Date Sampled Oct 03, 2019
Report 680554-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
PROJECTOR WALL	19-Oc05557	Oct 03, 2019	Approximate Sample 2g / 25x15x5mm Sample consisted of: Grey compressed fibre cement material	Chrysotile and amosite asbestos detected.
PROJECTOR CEILING	19-Oc05558	Oct 03, 2019	Approximate Sample 1g / 30x20x3mm Sample consisted of: Grey compressed fibre cement material	Chrysotile and amosite asbestos detected.
PROJECTOR LINO	19-Oc05559	Oct 03, 2019	Approximate Sample 3g / 85x62x2mm Sample consisted of: a) Black bituminous fibrous sheet b) Vinyl backing	No asbestos detected. Organic fibre detected.
STAIRWELL CEILING	19-Oc05560	Oct 03, 2019	Approximate Sample < 1g / 20x12x5mm Sample consisted of: Grey fibre cement material	No asbestos detected. Organic fibre detected.
STAIRWELL WALL	19-Oc05561	Oct 03, 2019	Approximate Sample 8g / 70x30x7mm Sample consisted of: White plaster material	No asbestos detected. Organic fibre detected. No respirable fibres detected.
ENTRY LINO	19-Oc05562	Oct 03, 2019	Approximate Sample 2g / 60x20x2mm Sample consisted of: a) Brown flexible vinyl sheet b) Yellow adhesive	No asbestos detected. Synthetic mineral fibre detected. Organic fibre detected.
EQUIPMENT ROOM WALL	19-Oc05563	Oct 03, 2019	Approximate Sample 24g / 120x30x4mm Sample consisted of: Grey compressed fibre cement material	Chrysotile and amosite asbestos detected.
CABLE END	19-Oc05564	Oct 03, 2019	Approximate Sample < 1g / 30x15x3mm Sample consisted of: Grey compressed fibre cement material	Chrysotile and amosite asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
EQUIPMENT ROOM CEILING	19-Oc05565	Oct 03, 2019	Approximate Sample < 1g / 80x15x2mm Sample consisted of: a) Organic fibre bundles b) Cement backing/coating	No asbestos detected. Organic fibre detected.
MAIN HALL WALL	19-Oc05566	Oct 03, 2019	Approximate Sample 21g / 60x55x15mm Sample consisted of: White plaster board	No asbestos detected. Organic fibre detected. No respirable fibres detected.
CHANGE ROOM WALL	19-Oc05567	Oct 03, 2019	Approximate Sample < 1g / 20x10x2mm Sample consisted of: Grey fibre cement material	No asbestos detected. Organic fibre detected.

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported. A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

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	Perth	Oct 03, 2019	Indefinite

Company Name: Occuhealth Pty Ltd
Address: PO Box 605
 Mandurah
 WA 6210

Project Name: BROOKTON MEMORIAL HALL
Project ID: RC CONSULTING

Order No.:
Report #: 680554
Phone: 08 9537 5700
Fax:

Received: Oct 3, 2019 12:37 PM
Due: Oct 4, 2019
Priority: 1 Day
Contact Name: Ethan Norris

Eurofins Analytical Services Manager : Robert Johnston

Sample Detail						Asbestos Absence / Presence
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID	
1	PROJECTOR WALL	Oct 03, 2019		Building Materials	P19-Oc05557	X
2	PROJECTOR CEILING	Oct 03, 2019		Building Materials	P19-Oc05558	X
3	PROJECTOR LINO	Oct 03, 2019		Building Materials	P19-Oc05559	X
4	STAIRWELL CEILING	Oct 03, 2019		Building Materials	P19-Oc05560	X
5	STAIRWELL WALL	Oct 03, 2019		Building Materials	P19-Oc05561	X
6	ENTRY LINO	Oct 03, 2019		Building	P19-Oc05562	X
Melbourne Laboratory - NATA Site # 1254 & 14271						
Sydney Laboratory - NATA Site # 18217						
Brisbane Laboratory - NATA Site # 20794						
Perth Laboratory - NATA Site # 23736						X
External Laboratory						

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Priority: 1 Day
Contact Name: Ethan Norris

Eurofins Analytical Services Manager : Robert Johnston

Sample Detail				Asbestos Absence /Presence
Melbourne Laboratory - NATA Site # 1254 & 14271				
Sydney Laboratory - NATA Site # 18217				
Brisbane Laboratory - NATA Site # 20794				
Perth Laboratory - NATA Site # 23736				X
		Materials		
7	EQUIPMENT ROOM WALL	Oct 03, 2019	Building Materials	P19-Oc05563 X
8	CABLE END	Oct 03, 2019	Building Materials	P19-Oc05564 X
9	EQUIPMENT ROOM CEILING	Oct 03, 2019	Building Materials	P19-Oc05565 X
10	MAIN HALL WALL	Oct 03, 2019	Building Materials	P19-Oc05566 X
11	CHANGE ROOM WALL	Oct 03, 2019	Building Materials	P19-Oc05567 X
Test Counts				11

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 blue colour, 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 '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 Sample Receipt Advice.

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: weight for weight basis	grams per kilogram
Filter loading:	fibres/100 graticule areas
Reported Concentration:	fibres/mL
Flowrate:	L/min

Terms

Dry	Sample is dried by heating prior to analysis
LOR	Limit of Reporting
COC	Chain of Custody
SRA	Sample Receipt Advice
ISO	International Standards Organisation
AS	Australian Standards
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 (2009), including supporting document Recommended Procedures for Laboratory Analysis of Asbestos in Soil (2011)
NEPM	National Environment Protection (Assessment of Site Contamination) Measure, 2013 (as amended)
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded and/or sound condition. For the purposes of the NEPM, ACM is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
AF	Asbestos Fines. Asbestos containing materials, including friable, weathered and bonded materials, able to pass a 7mm x 7mm sieve. Considered under the NEPM as equivalent to "non-bonded / friable".
FA	Fibrous Asbestos. Asbestos containing materials in a friable and/or severely weathered condition. For the purposes of the NEPM, FA is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
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.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres in the matrix.

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	N/A
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N/A	Not applicable

Asbestos Counter/Identifier:

Rhys Thomas Senior Analyst-Asbestos (WA)

Authorised by:

Matthew Deaves Senior Analyst-Asbestos (WA)



Glenn Jackson
General Manager

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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