



Email: ben_williamsacr@hotmail.com Web: www.asbestosconsultants.com.au
Licence No NSW#LAA000169
ABN 16 002 158 465
Asbestos Assessor Class A

Equipment Report

(NOT FOR CONSTRUCTION)

Report No :		ACR190219-01 Rev1	
Address:		Research School of Chemistry ANU	
Prepared & Approved By :		B.Williams LAA000169	
Date:		June 2019	
Re-inspection Due		June 2020	

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Executive Summary

ACR was engaged to undertake an inspection of equipment at the Research School of Chemistry ANU that was suspected to have asbestos containing materials present.

Equipment was noted for its age, type, use & historical evidence. As the majority of equipment was in use the inspection undertaken was non-invasive & no invasive/destructive inspections were undertaken. Sampling was taken from materials that were visible & accessible without damaging or taking apart the piece of equipment.

Sampling conducted on site found a number of items that required either immediate action or were listed to be scheduled for removal & disposal. These items are listed below. A register of all the items will be compiled & submitted once finalized.

Sampling conducted determined the following

Recommendations & actions;

No items of equipment required immediate action

During the inspection RSC Technical staff took the IEC Heater Stirrers that had a fixed power cable & were the older models away for disposal. (See Photo below)



Preface

An itemized list of equipment that was suspected to contain asbestos materials was compiled by RSC technical services staff members; a visual inspection was carried out of these plant items & equipment by ACR. Sampling was conducted of visible & accessible materials

The purpose of the register and any related updates is to make people aware of the presence of asbestos containing materials in plant & equipment on site and to implement the safe working procedures to prevent/reduce the risk of accidental exposure to asbestos fibres by technical staff, research staff, contractors, tenants, employers, employees and the public.

How to use this register

Prior to working on or servicing equipment highlighted in this register the asbestos assessment is to be read, this is to determine if the work required on equipment will disturb or expose of any asbestos containing materials.

Although all reasonable measures were taken to compile as much information as possible to complete this report, no guarantee as to the accuracy or completeness can be given. This is a result of the construction code of practice in some works and from the random application of asbestos containing materials. This report is limited by the physical constraints of the equipment inspected, prior to maintenance or repairs staff must fully understand the hazardous material, especially those that will require partial or full dismantling of the equipment & may expose possible asbestos materials. In this situation stop work, notify the register controller/building manager and implement a safe work procedure immediately.

This register should be read in conjunction with the ANUs Asbestos & Hazardous materials Management Plans.

All equipment should be tracked, Appendix C of this report is a log to ensure all updates to the location & movements of the equipment can be tracked to assist with the re-inspection of equipment & updating of the report

An Emergency Procedure

In the event of an accidental fibre release from any asbestos material, the following procedures should be followed.

- Evacuate the effected areas immediately to prevent/minimise the contamination of people.
- Restrict access to area and place warning/caution signs.
- Advise register controller/building manager of incident
- Register controller/building manager to implement the hazard management plan in accordance with the regulations. Ensure the work/access and exposure forms are completed as required.
- Consult a licensed asbestos removals/ assessor to assess and implement the hazard management controls to remove, clean up, and air monitor the area(s) of contamination. Air monitoring provides scientific evidence as to whether an area is safe to re-enter.

If the register controller/building manager is in doubt as whom to contact, please contact:

ASBESTOS CONSULTANTS & REMOVALIST
0433628157

Notes & other findings

It was found during the inspection that most of the equipment inspected had Kaowool/Kaoboard used as heat insulation. Due to the type & extent of the Kaowool/Kaoboard ACR has added the link to the MSDS file in Appendix E of this report.

ASBESTOS LOCATION SCHEDULE

Site address:

Equipment

Date:

Register
No

Location	Plant /equipment description	Serial No	CONDITION	SAMPLE NO. or VISUAL TEST	Risk Score	SIGNAGE	ASSESSMENT FINDINGS and HAZARD MANGAEMENT RECCOMENDATIONS
Building 137							
Room 2.79	LABEC oven	E894	Good	Visual	3	Yes	No visual ACMs present during standard usage. Due to the age & type of equipment it should be assumed that ACMs are present in the unit. Any personnel conducting repairs or maintenance should be aware that ACMs might be present. No works on the equipment is to proceed if it is suspected it will disturb the possible ACMs, equipment should be tagged out & disposed of accordingly by a Licensed Professional
	LABEC oven FFC-L2-45	N806-2	Good	Visual	3	Yes	No visual ACMs present during standard usage. Due to the age & type of equipment it should be assumed that ACMs are present in the unit. Any personnel conducting repairs or maintenance should be aware that ACMs might be present. No works on the equipment is to proceed if it is suspected it will disturb the possible ACMs, equipment should be tagged out & disposed of accordingly by a Licensed Professional
Room 2.78	LABEC tube furnace	M782	Good	Visual	3	Yes	No visual ACMs present during standard usage. Due to the age & type of equipment it should be assumed that ACMs are present in the unit. Any personnel conducting repairs or maintenance should be aware that ACMs might be present. No works on the equipment is to proceed if it is suspected it will disturb the possible ACMs, equipment should be tagged out & disposed of accordingly by a Licensed Professional
	LABEC tube furnace	N405	Good	Visual	3	Yes	No visual ACMs present during standard usage. Due to the age & type of equipment it should be assumed that ACMs are present in the unit. Any personnel conducting repairs or maintenance should be aware that ACMs might be present. No works on the equipment is to proceed if it is suspected it will disturb the possible ACMs, equipment should be tagged out & disposed of accordingly by a Licensed Professional
	LABEC Oven	F460	Good	Visual	3	Yes	No visual ACMs present during standard usage. Due to the age & type of equipment it should be assumed that ACMs are present in the unit. Any personnel conducting repairs or maintenance should be aware that ACMs might be present. No works on the equipment is to proceed if it is suspected it will disturb the possible ACMs, equipment should be tagged out & disposed of accordingly by a Licensed Professional

Room 2.78 (cont)	SEM furnace	-	Good	Visual	3	Yes	<p>No visual ACMs present during standard usage.</p> <p>Due to the age & type of equipment it should be assumed that ACMs are present in the unit.</p> <p>Any personnel conducting repairs or maintenance should be aware that ACMs might be present.</p> <p>No works on the equipment is to proceed if it is suspected it will disturb the possible ACMs, equipment should be tagged out & disposed of accordingly by a Licensed Professional</p>
	LABEC Tube furnace Fume cabinet L2-43		Good	Visual	3	Yes	<p>No visual ACMs present during standard usage.</p> <p>Due to the age & type of equipment it should be assumed that ACMs are present in the unit.</p> <p>Any personnel conducting repairs or maintenance should be aware that ACMs might be present.</p> <p>No works on the equipment is to proceed if it is suspected it will disturb the possible ACMs, equipment should be tagged out & disposed of accordingly by a Licensed Professional</p>
Room 2.77	SEM Furnace 24G	-	Good	Visual	3	Yes	<p>No visual ACMs present during standard usage.</p> <p>Due to the age & type of equipment it should be assumed that ACMs are present in the unit.</p> <p>Any personnel conducting repairs or maintenance should be aware that ACMs might be present.</p> <p>No works on the equipment is to proceed if it is suspected it will disturb the possible ACMs, equipment should be tagged out & disposed of accordingly by a Licensed Professional</p>
Room 2.75	SEM Furnace 24G	-	Good	Visual	3	Yes	<p>No visual ACMs present during standard usage.</p> <p>Due to the age & type of equipment it should be assumed that ACMs are present in the unit.</p> <p>Any personnel conducting repairs or maintenance should be aware that ACMs might be present.</p> <p>No works on the equipment is to proceed if it is suspected it will disturb the possible ACMs, equipment should be tagged out & disposed of accordingly by a Licensed Professional</p>
Room 2.70	LABEC Tube furnace	N635	Good	Visual	3	Yes	<p>No visual ACMs present during standard usage.</p> <p>Due to the age & type of equipment it should be assumed that ACMs are present in the unit.</p> <p>Any personnel conducting repairs or maintenance should be aware that ACMs might be present.</p> <p>No works on the equipment is to proceed if it is suspected it will disturb the possible ACMs, equipment should be tagged out & disposed of accordingly by a Licensed Professional</p>
	MODUTEMP Furnace	4335-0111	Good	Visual	3	Yes	<p>No visual ACMs present during standard usage.</p> <p>Due to the age & type of equipment it should be assumed that ACMs are present in the unit.</p> <p>Any personnel conducting repairs or maintenance should be aware that ACMs might be present.</p> <p>No works on the equipment is to proceed if it is suspected it will disturb the possible ACMs, equipment should be tagged out & disposed of accordingly by a Licensed Professional</p>

Room 2.69	Townson Heater Stirrer	C5753N	Good	Visual	3	Yes	<p>No visual ACMs present during standard usage.</p> <p>Due to the age & type of equipment it should be assumed that ACMs are present in the unit.</p> <p>Any personnel conducting repairs or maintenance should be aware that ACMs might be present.</p> <p>No works on the equipment is to proceed if it is suspected it will disturb the possible ACMs, equipment should be tagged out & disposed of accordingly by a Licensed Professional</p>
	IKA Heater Stirrer	638966	Good	Visual	3	Yes	<p>No visual ACMs present during standard usage.</p> <p>Due to the age & type of equipment it should be assumed that ACMs are present in the unit.</p> <p>Any personnel conducting repairs or maintenance should be aware that ACMs might be present.</p> <p>No works on the equipment is to proceed if it is suspected it will disturb the possible ACMs, equipment should be tagged out & disposed of accordingly by a Licensed Professional</p>
	LABEC Heater Stirrer	N806-1	Good	Visual	3	Yes	<p>No visual ACMs present during standard usage.</p> <p>Due to the age & type of equipment it should be assumed that ACMs are present in the unit.</p> <p>Any personnel conducting repairs or maintenance should be aware that ACMs might be present.</p> <p>No works on the equipment is to proceed if it is suspected it will disturb the possible ACMs, equipment should be tagged out & disposed of accordingly by a Licensed Professional</p>
Room 2.81	Thermoline Vacuum Oven	19346	Good	Visual	3	Yes	<p>No visual ACMs present during standard usage.</p> <p>Due to the age & type of equipment it should be assumed that ACMs are present in the unit.</p> <p>Any personnel conducting repairs or maintenance should be aware that ACMs might be present.</p> <p>No works on the equipment is to proceed if it is suspected it will disturb the possible ACMs, equipment should be tagged out & disposed of accordingly by a Licensed Professional</p>
	Thermo Scientific heater	10936286/01	Good	Visual	3	Yes	<p>No visual ACMs present during standard usage.</p> <p>Due to the age & type of equipment it should be assumed that ACMs are present in the unit.</p> <p>Any personnel conducting repairs or maintenance should be aware that ACMs might be present.</p> <p>No works on the equipment is to proceed if it is suspected it will disturb the possible ACMs, equipment should be tagged out & disposed of accordingly by a Licensed Professional</p>
	Thermo Scientific heater	10936286/03	Good	Visual	3	Yes	<p>No visual ACMs present during standard usage.</p> <p>Due to the age & type of equipment it should be assumed that ACMs are present in the unit.</p> <p>Any personnel conducting repairs or maintenance should be aware that ACMs might be present.</p> <p>No works on the equipment is to proceed if it is suspected it will disturb the possible ACMs, equipment should be tagged out & disposed of accordingly by a Licensed Professional</p>

Room 2.80	IKA Heater Stirrer	682881	Good	Visual	3	Yes	<p>No visual ACMs present during standard usage.</p> <p>Due to the age & type of equipment it should be assumed that ACMs are present in the unit.</p> <p>Any personnel conducting repairs or maintenance should be aware that ACMs might be present.</p> <p>No works on the equipment is to proceed if it is suspected it will disturb the possible ACMs, equipment should be tagged out & disposed of accordingly by a Licensed Professional</p>
	IKA Heater Stirrer	0533445	Good	Visual	3	Yes	<p>No visual ACMs present during standard usage.</p> <p>Due to the age & type of equipment it should be assumed that ACMs are present in the unit.</p> <p>Any personnel conducting repairs or maintenance should be aware that ACMs might be present.</p> <p>No works on the equipment is to proceed if it is suspected it will disturb the possible ACMs, equipment should be tagged out & disposed of accordingly by a Licensed Professional</p>
	IKA Heater Stirrer	0476086	Good	Visual	3	Yes	<p>No visual ACMs present during standard usage.</p> <p>Due to the age & type of equipment it should be assumed that ACMs are present in the unit.</p> <p>Any personnel conducting repairs or maintenance should be aware that ACMs might be present.</p> <p>No works on the equipment is to proceed if it is suspected it will disturb the possible ACMs, equipment should be tagged out & disposed of accordingly by a Licensed Professional</p>
Room 1.90	IKA Heater Stirrer	0533426	Good	Visual	3	Yes	<p>No visual ACMs present during standard usage.</p> <p>Due to the age & type of equipment it should be assumed that ACMs are present in the unit.</p> <p>Any personnel conducting repairs or maintenance should be aware that ACMs might be present.</p> <p>No works on the equipment is to proceed if it is suspected it will disturb the possible ACMs, equipment should be tagged out & disposed of accordingly by a Licensed Professional</p>
Room 1.89	RADATHERM Furnace	0452235	Good	Visual	3	Yes	<p>No visual ACMs present during standard usage.</p> <p>Due to the age & type of equipment it should be assumed that ACMs are present in the unit.</p> <p>Any personnel conducting repairs or maintenance should be aware that ACMs might be present.</p> <p>No works on the equipment is to proceed if it is suspected it will disturb the possible ACMs, equipment should be tagged out & disposed of accordingly by a Licensed Professional</p>
	Lindberg Tube Furnace	797001	Good	Visual	3	Yes	<p>No visual ACMs present during standard usage.</p> <p>Due to the age & type of equipment it should be assumed that ACMs are present in the unit.</p> <p>Any personnel conducting repairs or maintenance should be aware that ACMs might be present.</p> <p>No works on the equipment is to proceed if it is suspected it will disturb the possible ACMs, equipment should be tagged out & disposed of accordingly by a Licensed Professional</p>

Room 1.89 (Cont)	Square Furnace	045709	Good	Visual	3	Yes	<p>No visual ACMs present during standard usage.</p> <p>Due to the age & type of equipment it should be assumed that ACMs are present in the unit.</p> <p>Any personnel conducting repairs or maintenance should be aware that ACMs might be present.</p> <p>No works on the equipment is to proceed if it is suspected it will disturb the possible ACMs, equipment should be tagged out & disposed of accordingly by a Licensed Professional</p>
Room 1.88	Belling Oven	-	Good	Visual	3	Yes	<p>No visual ACMs present during standard usage.</p> <p>Due to the age & type of equipment it should be assumed that ACMs are present in the unit.</p> <p>Any personnel conducting repairs or maintenance should be aware that ACMs might be present.</p> <p>No works on the equipment is to proceed if it is suspected it will disturb the possible ACMs, equipment should be tagged out & disposed of accordingly by a Licensed Professional</p>
Room1.78	IKA Heater Stirrer		Good	Visual	3	Yes	<p>No visual ACMs present during standard usage.</p> <p>Due to the age & type of equipment it should be assumed that ACMs are present in the unit.</p> <p>Any personnel conducting repairs or maintenance should be aware that ACMs might be present.</p> <p>No works on the equipment is to proceed if it is suspected it will disturb the possible ACMs, equipment should be tagged out & disposed of accordingly by a Licensed Professional</p>
Room 3.25	PIERCE Sample Heater	-	Good	Visual	3	Yes	<p>No visual ACMs present during standard usage.</p> <p>Due to the age & type of equipment it should be assumed that ACMs are present in the unit.</p> <p>Any personnel conducting repairs or maintenance should be aware that ACMs might be present.</p> <p>No works on the equipment is to proceed if it is suspected it will disturb the possible ACMs, equipment should be tagged out & disposed of accordingly by a Licensed Professional</p>
Room 1.31 (Bay 10)	IKA Labtech Heater Stirrer	-	Good	Visual	3	Yes	<p>No visual ACMs present during standard usage.</p> <p>Due to the age & type of equipment it should be assumed that ACMs are present in the unit.</p> <p>Any personnel conducting repairs or maintenance should be aware that ACMs might be present.</p> <p>No works on the equipment is to proceed if it is suspected it will disturb the possible ACMs, equipment should be tagged out & disposed of accordingly by a Licensed Professional</p>
	New Brunswick Incubator Shaker	C125829	Good	Visual	3	Yes	<p>No visual ACMs present during standard usage.</p> <p>Due to the age & type of equipment it should be assumed that ACMs are present in the unit.</p> <p>Any personnel conducting repairs or maintenance should be aware that ACMs might be present.</p> <p>No works on the equipment is to proceed if it is suspected it will disturb the possible ACMs, equipment should be tagged out & disposed of accordingly by a Licensed Professional</p>

Room 1.32							
	Incubator	269	Good	Visual	3	Yes	<p>No visual ACMs present during standard usage.</p> <p>Due to the age & type of equipment it should be assumed that ACMs are present in the unit.</p> <p>Any personnel conducting repairs or maintenance should be aware that ACMs might be present.</p> <p>No works on the equipment is to proceed if it is suspected it will disturb the possible ACMs, equipment should be tagged out & disposed of accordingly by a Licensed Professional</p>
	Incubator	523 62243	Good	Visual	3	Yes	<p>No visual ACMs present during standard usage.</p> <p>Due to the age & type of equipment it should be assumed that ACMs are present in the unit.</p> <p>Any personnel conducting repairs or maintenance should be aware that ACMs might be present.</p> <p>No works on the equipment is to proceed if it is suspected it will disturb the possible ACMs, equipment should be tagged out & disposed of accordingly by a Licensed Professional</p>
	Incubator	62244	Good	Visual	3	Yes	<p>No visual ACMs present during standard usage.</p> <p>Due to the age & type of equipment it should be assumed that ACMs are present in the unit.</p> <p>Any personnel conducting repairs or maintenance should be aware that ACMs might be present.</p> <p>No works on the equipment is to proceed if it is suspected it will disturb the possible ACMs, equipment should be tagged out & disposed of accordingly by a Licensed Professional</p>
Room 2.24							
	IKA Labtech Heater Stirrer	-	Good	Visual	3	Yes	<p>No visual ACMs present during standard usage.</p> <p>Due to the age & type of equipment it should be assumed that ACMs are present in the unit.</p> <p>Any personnel conducting repairs or maintenance should be aware that ACMs might be present.</p> <p>No works on the equipment is to proceed if it is suspected it will disturb the possible ACMs, equipment should be tagged out & disposed of accordingly by a Licensed Professional</p>
Room 2.25							
	IKA Labtech Heater Stirrer 7 Units	-	Good	Visual	3	Yes	<p>No visual ACMs present during standard usage.</p> <p>Due to the age & type of equipment it should be assumed that ACMs are present in the unit.</p> <p>Any personnel conducting repairs or maintenance should be aware that ACMs might be present.</p> <p>No works on the equipment is to proceed if it is suspected it will disturb the possible ACMs, equipment should be tagged out & disposed of accordingly by a Licensed Professional</p>

Room 2.26							
	IKA Labtech Heater Stirrer 3 units	164914	Good	Visual	3	Yes	No visual ACMs present during standard usage. Due to the age & type of equipment it should be assumed that ACMs are present in the unit. Any personnel conducting repairs or maintenance should be aware that ACMs might be present. No works on the equipment is to proceed if it is suspected it will disturb the possible ACMs, equipment should be tagged out & disposed of accordingly by a Licensed Professional
	SEM Heater Stirrer	CAT#212 S8409	Good	Visual	3	Yes	No visual ACMs present during standard usage. Due to the age & type of equipment it should be assumed that ACMs are present in the unit. Any personnel conducting repairs or maintenance should be aware that ACMs might be present. No works on the equipment is to proceed if it is suspected it will disturb the possible ACMs, equipment should be tagged out & disposed of accordingly by a Licensed Professional
	Thermolyne Heater Stirrer	4650067	Good	Visual	3	Yes	No visual ACMs present during standard usage. Due to the age & type of equipment it should be assumed that ACMs are present in the unit. Any personnel conducting repairs or maintenance should be aware that ACMs might be present. No works on the equipment is to proceed if it is suspected it will disturb the possible ACMs, equipment should be tagged out & disposed of accordingly by a Licensed Professional
Room 2.27							
	SEM Heater Stirrer	CAT#212 S84653	Good	Visual	3	Yes	No visual ACMs present during standard usage. Due to the age & type of equipment it should be assumed that ACMs are present in the unit. Any personnel conducting repairs or maintenance should be aware that ACMs might be present. No works on the equipment is to proceed if it is suspected it will disturb the possible ACMs, equipment should be tagged out & disposed of accordingly by a Licensed Professional
Room 2.24							
	IKA Labtech Heater Stirrer 2 units	164914	Good	Visual	3	Yes	No visual ACMs present during standard usage. Due to the age & type of equipment it should be assumed that ACMs are present in the unit. Any personnel conducting repairs or maintenance should be aware that ACMs might be present. No works on the equipment is to proceed if it is suspected it will disturb the possible ACMs, equipment should be tagged out & disposed of accordingly by a Licensed Professional
Room 1.30							
	IKA Labtech Heater Stirrer 4 units	164914	Good	Visual	3	Yes	No visual ACMs present during standard usage. Due to the age & type of equipment it should be assumed that ACMs are present in the unit. Any personnel conducting repairs or maintenance should be aware that ACMs might be present. No works on the equipment is to proceed if it is suspected it will disturb the possible ACMs, equipment should be tagged out & disposed of accordingly by a Licensed Professional

	New Brunswick incubator shaker		Good	Visual	3	Yes	<p>No visual ACMs present during standard usage.</p> <p>Due to the age & type of equipment it should be assumed that ACMs are present in the unit.</p> <p>Any personnel conducting repairs or maintenance should be aware that ACMs might be present.</p> <p>No works on the equipment is to proceed if it is suspected it will disturb the possible ACMs, equipment should be tagged out & disposed of accordingly by a Licensed Professional</p>
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	Inspection Notes
	<p>This report is limited by the physical constraints of the structure inspected,</p> <p>Although all reasonable measures were taken to compile as much information as possible to complete this report, no guarantee as to the accuracy or completeness can be given. This is a result of the construction code of practice in some works and from the random application of asbestos containing materials. This report is limited by the physical constraints of the equipment inspected, prior to maintenance or repairs staff must fully understand the hazardous material, especially those that will require partial or full dismantling of the equipment & may expose possible asbestos materials. In this situation stop work, notify the register controller/building manager and implement a safe work procedure immediately.</p>

APPENDIX A Laboratory Results



WSP Australia
Pty Limited

Level 1 121 Marcus Clarke Street
PO Box 1551 Canberra ACT 2600
Telephone +61 2 6201 9600
Facsimile +61 2 6201 9666
Email ANZLab@pbworld.com

Certificate of Analysis

ABN 80 078 004 798
NCSI Certified Quality System ISO 9001

LOCATION: Reasearch School of Chemistry ANU **CERTIFICATE NO:** ACT-PS107376-0075-98181

CLIENT: Asbestos Consultants & Removalists **DATES SAMPLED:** 27/06/2018

CLIENT ADDRESS: 95 Combermere Street, Goulburn NSW 2580 **DATE RECEIVED:** 27/06/2018

TELEPHONE: 0433628157 **DATE ANALYSED:** 2/07/2018

EMAIL: ben_williamsacr@hotmail.com **ORDER NUMBER:** NA

CONTACT: Ben Williams **SAMPLED BY:** As Received

TEST METHOD: Qualitative identification of Asbestos fibre in bulk and soil samples at WSP Corporate Laboratories, by polarised light microscopy, including dispersion staining techniques using AS4964 (2004) and supplementary in house laboratory procedure (LP3 - Identification of Asbestos Fibres). This document is issued in accordance with NATA's requirements under NATA accreditation No. 17199, 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 standard.

Lab No	Sample ID	Location	Sample Description	Sample Dimensions	Identification Type
001	S001	Room 1.89 Building 137	Insulation Pad	<1 gm	OF, NAD
002	S002	Coil Heater - Room 1.89 Building 137	End Plate	<1 gm	NAD
003	S003	Multispeed Stirrer - Room 1.89 Building 137	Backing Board	<1 gm	OF, NAD

LEGEND:

NAD - No Asbestos Detected
CH - Chrysotile Asbestos Detected
A - Amosite Asbestos Detected
C - Crocidolite Asbestos Detected
UMF - Unknown Mineral Fibres Detected
SMF - Synthetic Mineral Fibres Detected
OF - Organic Fibres Detected

Hand picked refers to small discrete amounts of asbestos distributed unevenly in a large body of non asbestos material.

Notes:

If no asbestos is detected in vinyl tiles, mastics, sealants, epoxy resins and ore samples then confirmation by another independent analytical technique is advised due to the nature of the samples.

The results contained within this report relate only to the sample(s) submitted for testing. WSP accepts no responsibility for the initial collection, packaging or transportation of samples submitted by external persons. NATA does not accredit the sampling process, therefore sampling is not covered by the scope of accreditation. This document may not be reproduced except in full.



ACCREDITED FOR
**TECHNICAL
COMPETENCE**

Approved Identifier

Name: Laura Wilson-Dennis

Approved Signatory

Name: Laura Wilson-Dennis

AUTHORISATION DATE

Monday, 2 July 2018

APPENDIX B Equipment Photos



Room 1.90	IKA Heater Stirrer	-	Good	Visual	3
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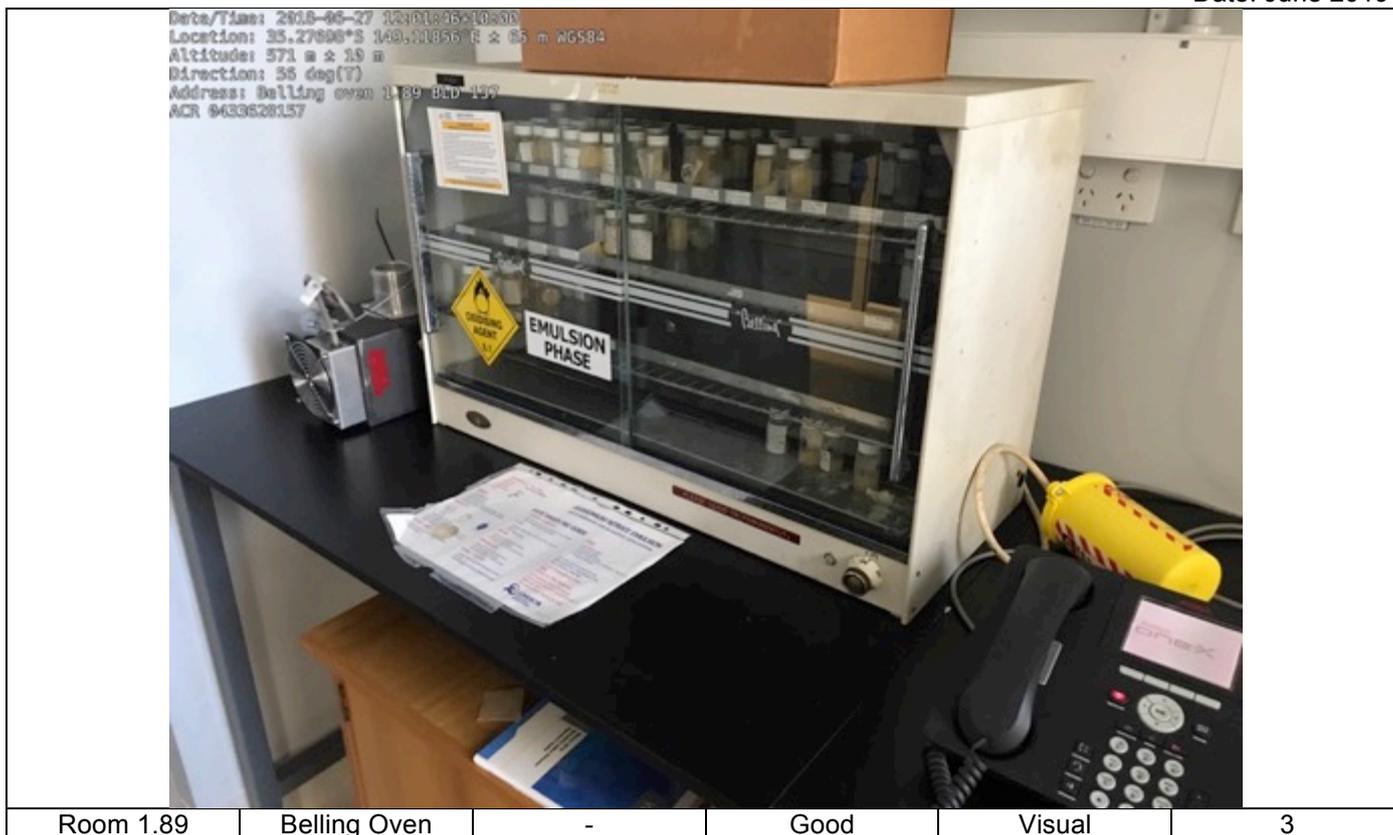
Room 1.88	Radatherm Oven	-	Good	Visual	3
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Room 1.88	Square Furnace	-	Good	Visual	3
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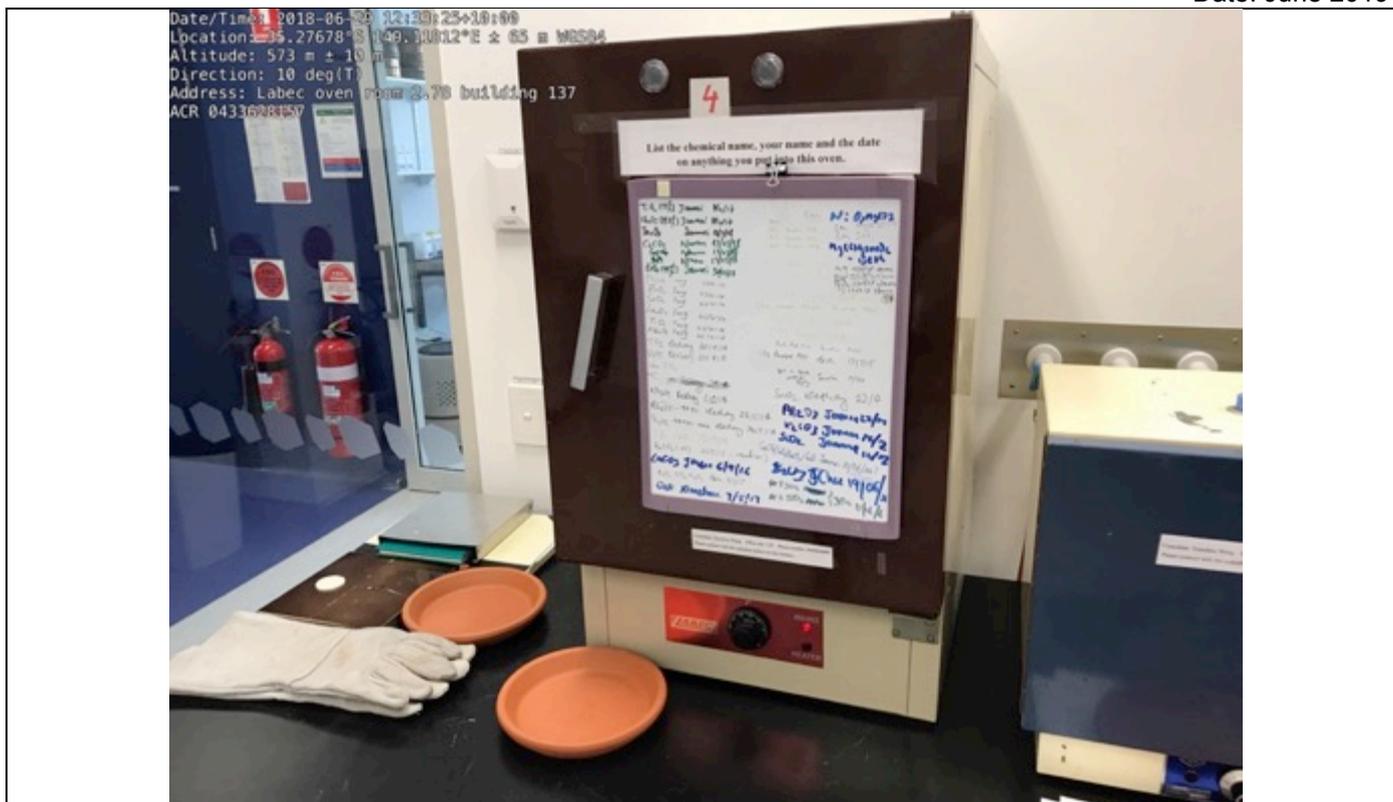
Room 1.88	Lindberg Tube Furnace	-	Good	Visual	3
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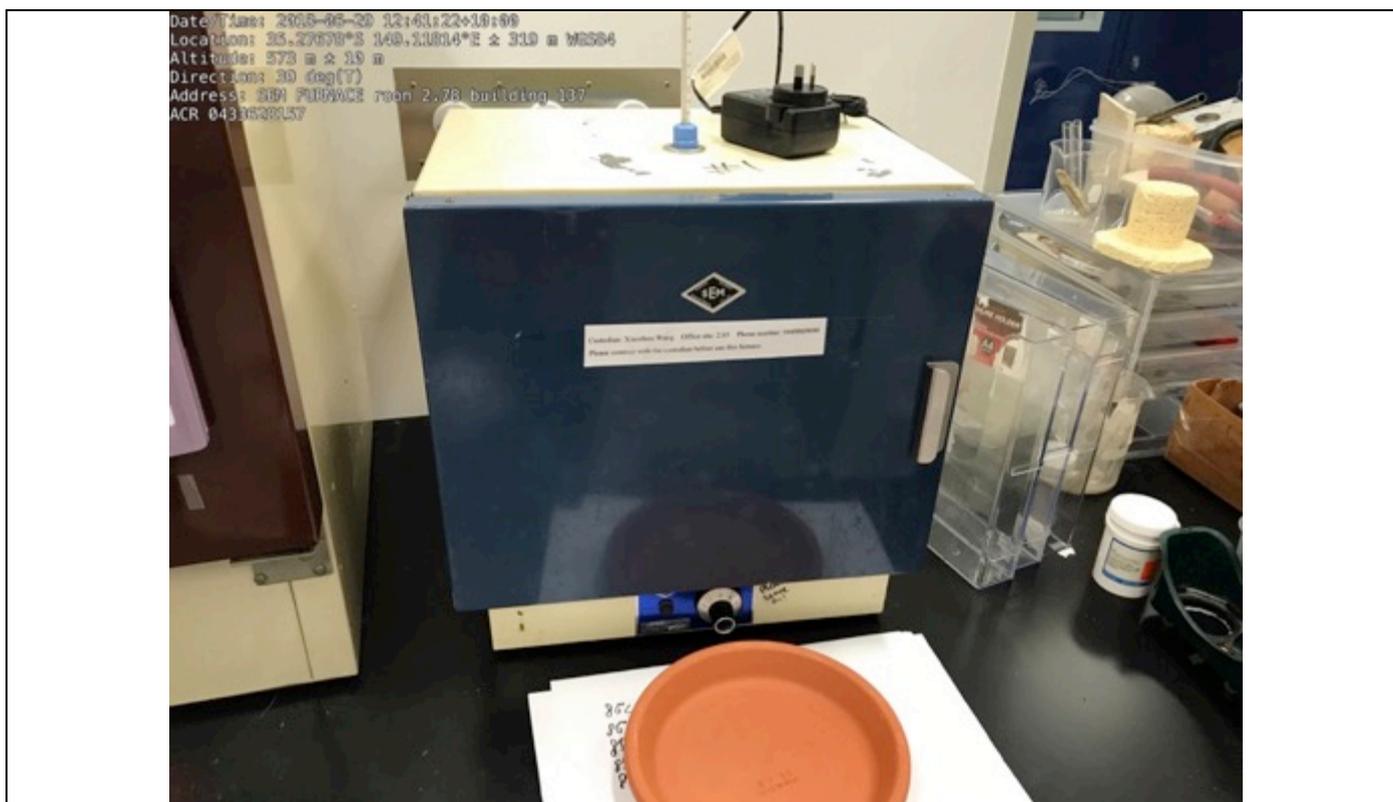
Room 1.89	Belling Oven	-	Good	Visual	3
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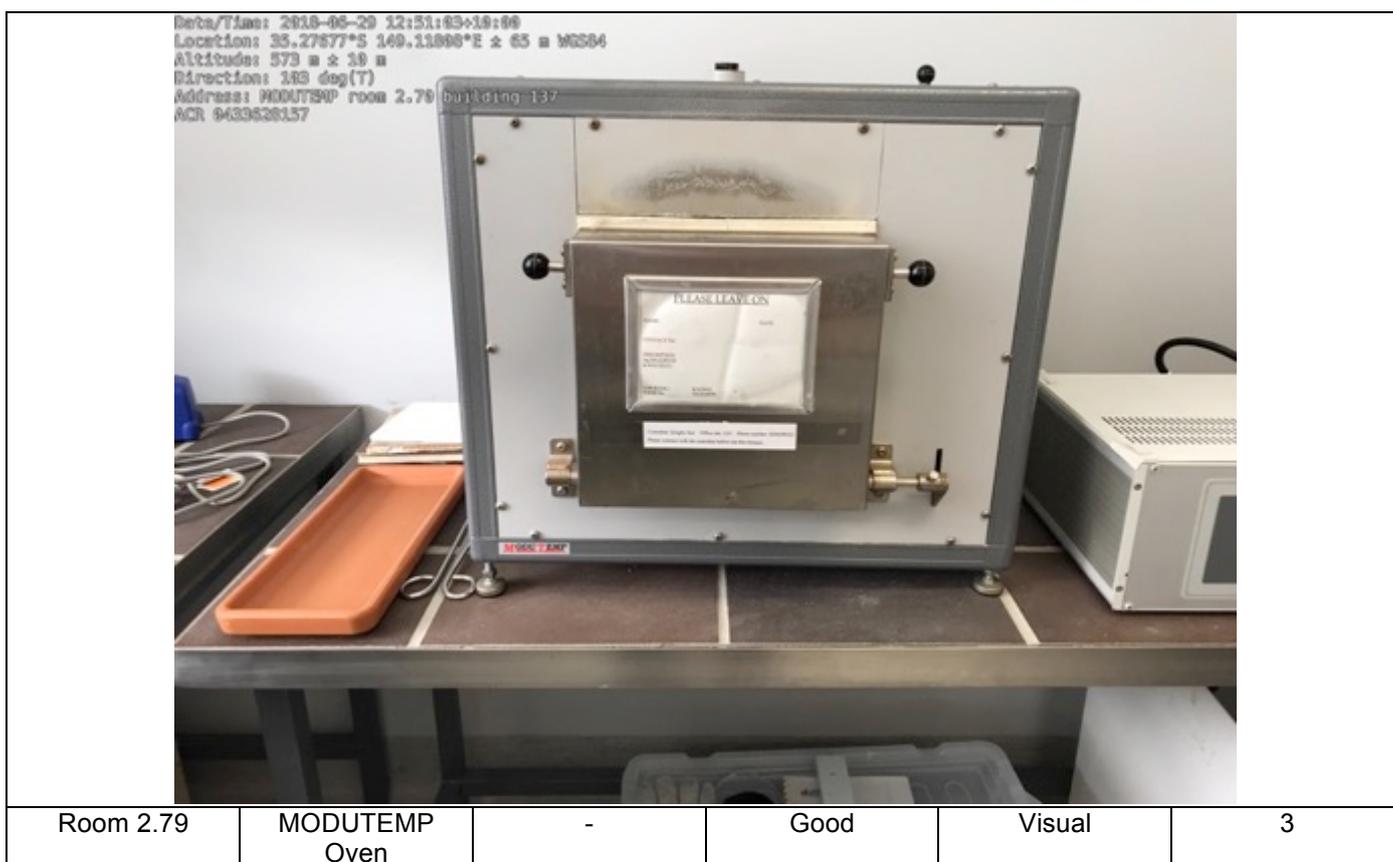
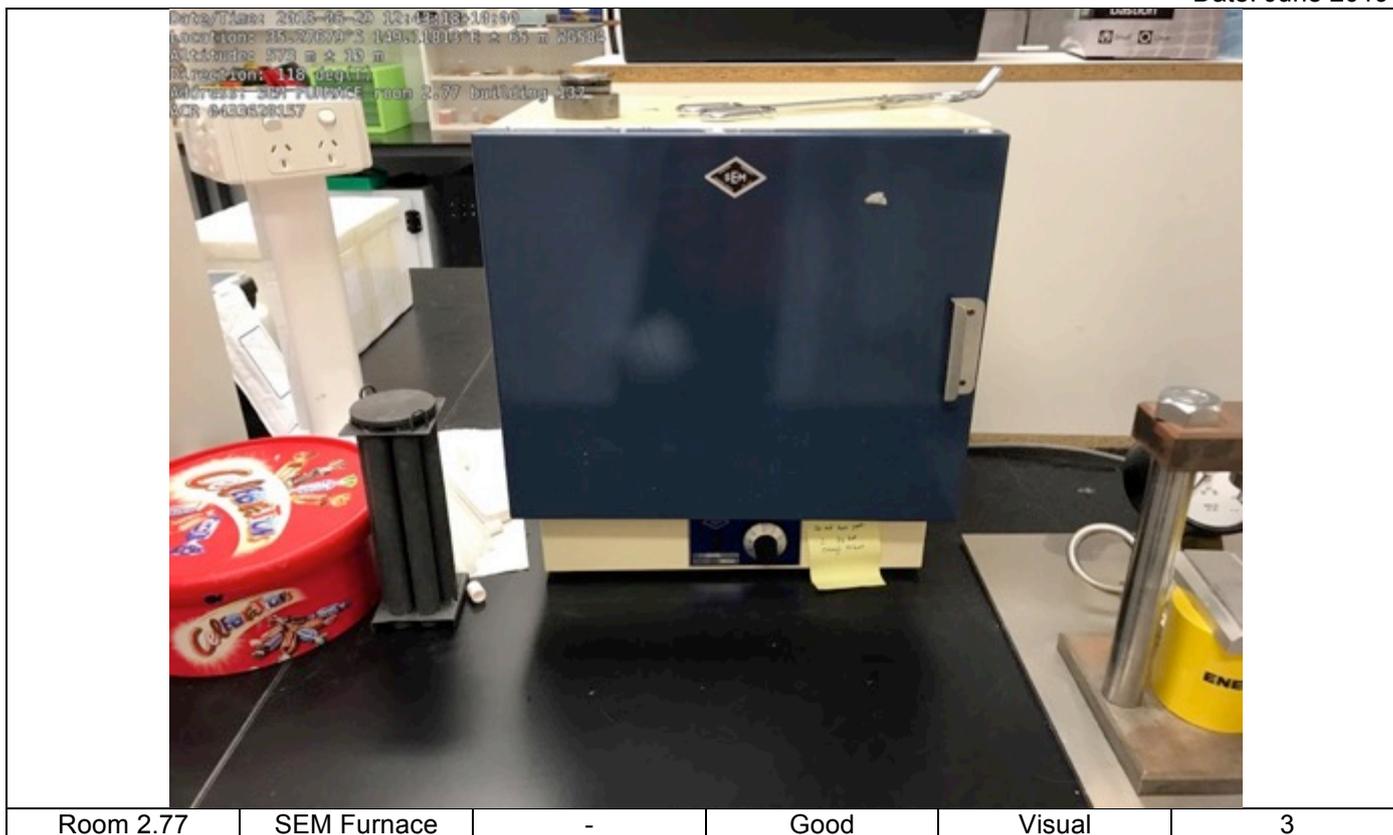
Room 1.78	IKA Heater Stirrer	-	Good	Visual	3
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Room 2.78	Labec Oven	-	Good	Visual	3
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Room 2.78	SEM Furnace	-	Good	Visual	3
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Date/Time: 2018-06-20 13:32:02+10:00
 Location: 35.27671°S 149.11811°E ± 65 m WGS84
 Altitude: 574 m ± 10 m
 Direction: 1 deg(T)
 Address: Heidolph Stirrer room 2.69 building 137
 ACR 0433628157

Room 2.69	Heidolph Heater Stirrer	-	Good	Visual	3
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Date/Time: 2018-06-20 13:42:18+10:00
 Location: 35.27672°S 149.11812°E ± 65 m WGS84
 Altitude: 574 m ± 10 m
 Direction: 199 deg(T)
 Address: IKA Stirrer room 2.69 building 137
 ACR 0433628157

Room 2.69	IKA Heater Stirrer	-	Good	Visual	3
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	<p>Date/Time: 2018-06-29 13:03:54+10:00 Location: 35.27669°S 149.11813°E ± 65 m WGS84 Altitude: 574 m ± 10 m Direction: 75 deg(T) Address: Lebec Stirrer room 2.69 building 137 ACR 0433628157</p>				
Room 2.69	Labec Heater Stirrer	-	Good	Visual	3

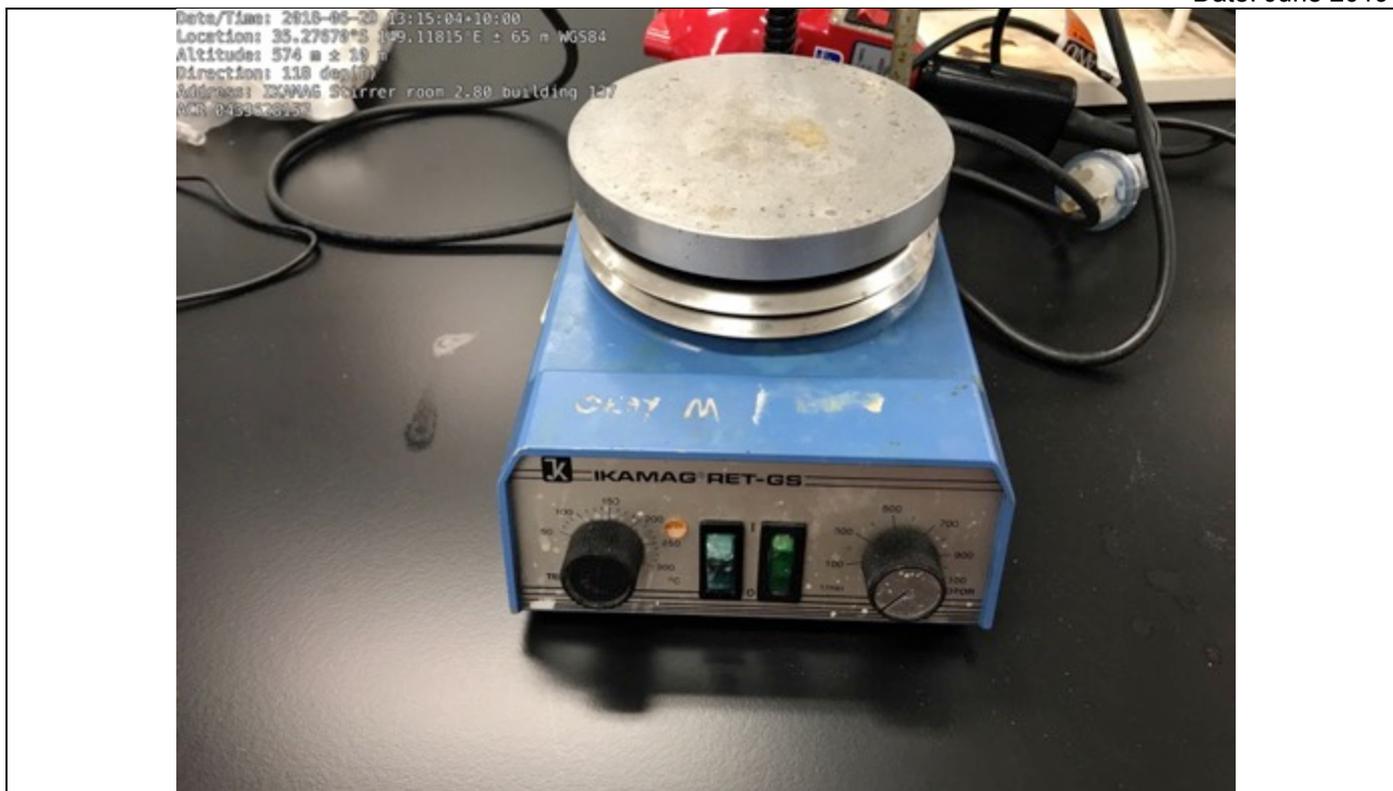
	<p>Date/Time: 2018-06-29 13:04:32+10:00 Location: 35.27669°S 149.11814°E ± 65 m WGS84 Altitude: 574 m ± 10 m Direction: 30 deg(T) Address: Heidolph Stirrer room 2.69 building 137 ACR 0433628157</p>				
Room 2.69	Heidolph Heater Stirrer	-	Good	Visual	3



Room 2.79	Labec Heating Oven	-	Good	Visual	3
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Room 2.79	Labec Heater Stirrer	-	Good	Visual	3
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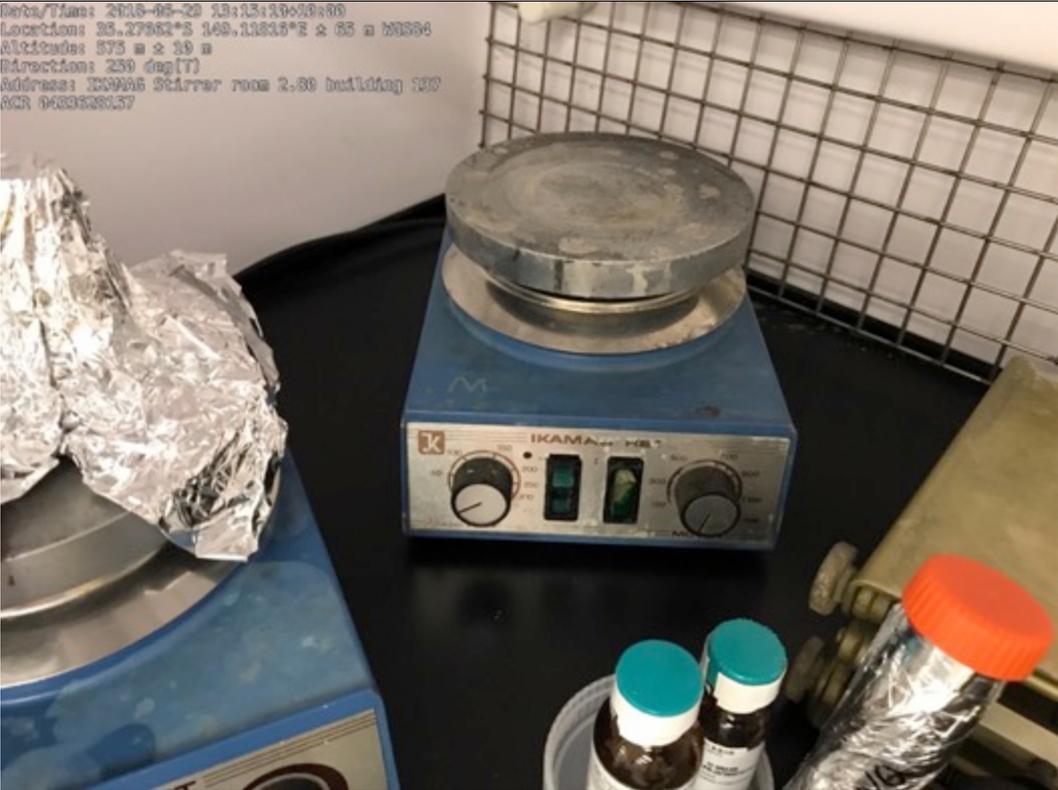
Date/Time: 2018-06-29 13:15:04+10:00
 Location: 35.27679°S 149.11815°E ± 65 m WGS84
 Altitude: 574 m ± 10 m
 Direction: 118 deg(T)
 Address: IKAMAG Stirrer room 2.80 building 127
 ACR 0459528157

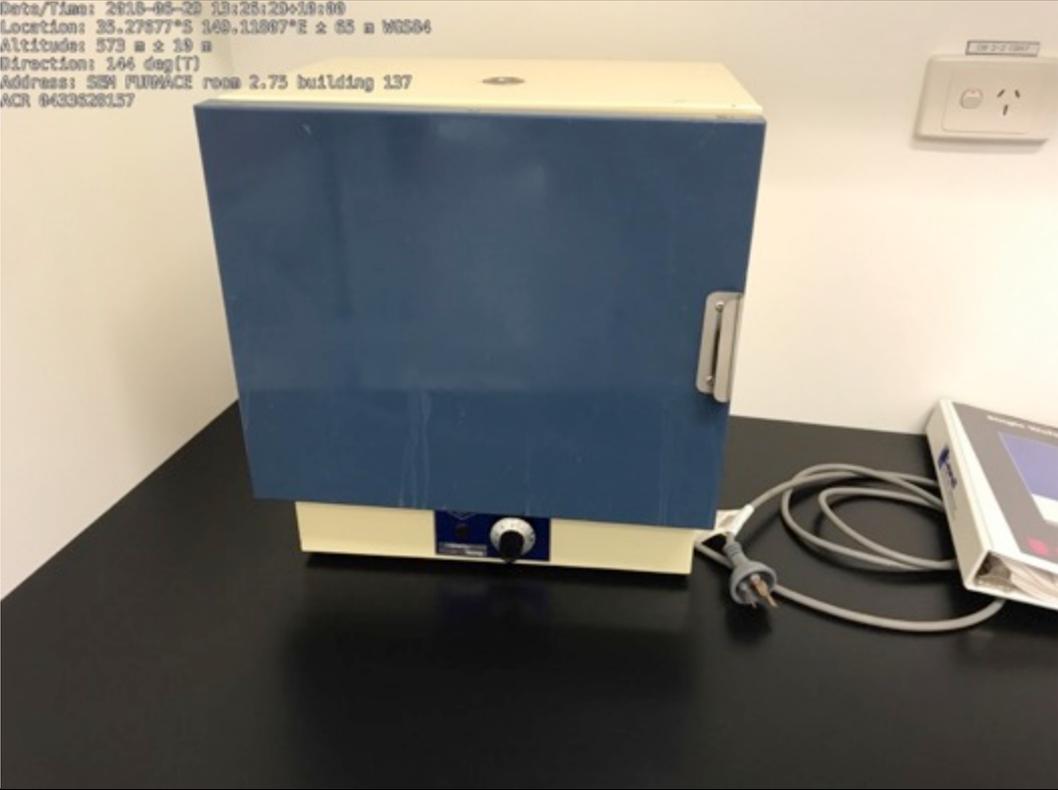
Room 2.80	IKA Heater Stirrer	-	Good	Visual	3
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Date/Time: 2018-06-29 13:15:08+10:00
 Location: 35.27682°S 149.11816°E ± 65 m WGS84
 Altitude: 575 m ± 10 m
 Direction: 120 deg(T)
 Address: IKAMAG Stirrer room 2.80 building 127
 ACR 0459528157

Room 2.80	IKA Heater Stirrer	-	Good	Visual	3
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 <p>Data/Time: 2018-05-20 13:13:10+10:00 Location: 35.27662°S 149.11815°E ± 65 m WGS84 Altitude: 575 m ± 10 m Direction: 259 deg(T) Address: IKAHE Stirrer room 2.80 building 137 ACR 0433520157</p>					
Room 2.80	IKA Heater Stirrer	-	Good	Visual	3

 <p>Data/Time: 2018-05-20 13:25:20+10:00 Location: 35.27677°S 149.11807°E ± 65 m WGS84 Altitude: 573 m ± 10 m Direction: 144 deg(T) Address: SEM FURNACE room 2.75 building 137 ACR 0433520157</p>					
Room 2.75	SEM Furnace	-	Good	Visual	3

Room 2.24	IKA Heater Stirrer	-	Good	Visual	3

Room 2.26	SEM Heater Stirrer	-	Good	Visual	3



Date/Time: 2018-06-29 14:16:38+10:00
 Location: 35.27641°S 149.11845°E ± 65 m WGS84
 Altitude: 573 m ± 15 m
 Direction: 195 deg(T)
 Address: Analite HEAT STIRRER room 2.26 building 137
 ACR 0433628157

Room 2.26	Analite Heater Stirrer	-	Good	Visual	3
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Date/Time: 2018-09-17 15:18:18+10:00
 Location: 35.27635°S 149.11844°E ± 182 m WGS84
 Altitude: 577 m ± 19 m
 Direction: 285 deg(T)
 Address: Incubator Lab 1.39 Building 137
 ACR 0433628157

Room 1.39	Incubator	-	Good	Visual	3
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Room 1.30	IKA Heater Stirrer	-	Good	Visual	3
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Room 1.39	IKA Heater Stirrer	-	Good	Visual	3
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Room 1.38	IKA Heater Stirrer	-	Good	Visual	3
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Room 1.32	Culture Shaker	-	Good	Visual	3
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APPENDIX D Referenced Documents

- (a) Work Health and Safety Act 2011 (Commonwealth)
- (b) Work Health and Safety Act 2011 (NSW)
- (c) Work Health and Safety Regulation 2011 (NSW)
- (d) Safe Work Australia: How to Manage and Control Asbestos in the Workplace: Code of Practice 2016.
- (e) Safe Work Australia: How to Safely Remove Asbestos: Code of Practice 2016.
- (f) Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres. 2nd Edition [NOHSC:3003(2005)]
- (g) ANZECC (1997) Identification of PCB-containing Capacitors: An information booklet for Electricians and Electrical Contractors.
- (h) AS 1319, Standards Association of Australia, Rules for the Design and Use of Safety Signs for the Occupational Environment
- (i) AS 1715, Standards Association of Australia, Selection, Use and Maintenance of Respiratory Protective Devices
- (j) AS 1716, Standards Association of Australia, Respiratory Protective Devices
- (k) AS 2601 Demolition of Structures
- (l) AS 4361.1 Guide to Lead Paint Management, Part 1: Industrial Application 1995
- (m) AS 4361.2 Guide to Lead Paint Management, Part 2: Residential and Commercial Buildings 1998
- (n) National Code of Practice for the Control and Safe Use of Inorganic Lead at Work [NOHSC:2015(1994)].
- (o) AIOH positional paper: Synthetic Mineral Fibres and Occupational Health Issues 2011
- (p) NOHSC (1989b). Guidance Note on the Membrane Filter Method for the Estimation of Airborne Synthetic Mineral Fibres. [NOHSC:3006 (1989)] June 1989
- (q) National Standard for Synthetic Mineral Fibres [NOSHC:1004 (1990)].
- (r) National Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOSHC:2006 (1990)].
- (s) AS 3640 Workplace atmospheres - Methods for sampling and gravimetric determination of inhalable dust 2009

APPENDIX E Useful Links

http://www.insulationindustries.com.au/SiteFiles/insulationindustries2010comau/MSDS_-_Kaowool_Blanket_and_Bulk_Products.pdf

APPENDIX G Risk Matrix



Asbestos Assessor Class A

Risk Matrix

Asbestos Fibre type	No visible or accessible asbestos materials in equipment	0	
	Chrysotile	1	
	Amosite	2	
	Crocidolite	3	
Surface treatment	Enclosed in equipment, Composite materials, vinyl floor tiles (VTFs), reinforced plastics, mastics & resins	0	
	Enclosed laggings/sprays, low density board with exposed sealed or cement sheet	1	
	Unsealed low density board, encapsulated lagging/spray or cement debris	2	
	Unsealed thermal insulation, lagging/spray	3	
Product type	Composite materials, VFTs, reinforced plastics, mastic/resins, cement products, textured coatings/paints	1	
	Low density board, millboard, asbestos textiles, gaskets, ropes, woven textiles, paper and felts	2	
	Thermal insulation, lagging, sprayed asbestos, asbestos mattresses and packing, loose asbestos	3	
Condition	No Visible damage	0	
	Few scratches / marks / broken edges	1	
	Significant breakage & damage exposing loose asbestos fibres	2	
	High damage/ visible debris	3	
Likelihood of Disturbance	Usually inaccessible or unlikely to be disturbed	0	
	Occasionally likely to be disturbed	1	
	Easily disturbed	2	
	Routinely disturbed	3	
Risk Score	Very Low Risk	2-4	
	Low Risk	5-8	
	Medium Risk	9-11	
	High Risk	12-15	
Action Rating	Restrict access, Manage and Remove Under Fully Controlled Conditions	A1	
	Restrict access or Enclose or Encapsulate using Appropriate control Measures	A2	
	Program for planned Removal, Manage & Re- inspect Periodically	A3	
	Enclose, Encapsulate or Seal, Manage & Re-inspect Periodically	A4	
	Leave in-situ, Manage & Re-inspect Periodically	A5	
Action Comments			

APPENDIX H Unexpected Finds Procedure



Ben Williams
LAA00169
0433628157

UNEXPECTED FINDS PROCEDURE (UFP)

Suspected Asbestos Containing (ACM) found- Cease work & evacuate the affected area

Immediately report the find to the site supervisor & cordon off the area

Contact a Licenced Asbestos Assessor to conduct sampling (if required) & inspect the site

Site Supervisor/Manager conducts a tool box talk for all staff on site & informs them of the incident

Site Supervisor/Manager conducts receives advice off LAA of the outcome of assessment & sampling

No Asbestos Detected

Advise all staff of outcome

Resume normal operations on site

Asbestos Detected in sampling

Make safe using the recommendations & scope in LAA report

Update Site Asbestos Register & Inform all staff

APPENDIX I Clearance Certificates