

# NON-FRIABLE ASBESTOS CLEARANCE REPORT C101200E/CLR3.v1

20 March 2017

Attention: [REDACTED]  
Company: [REDACTED]  
Email: [REDACTED]

**SWE Reference:** C101200E /CLR3.v1  
**Site Address:** 37 Goulburn Street, Macquarie ACT  
**Date of Works:** 20<sup>th</sup> of March 2017

Dear [REDACTED],

**RE: C101200E/CLR3 – Clearance Certificate for Non-Friable Asbestos Removal Works: 37 Goulburn Street, Macquarie ACT**

## Introduction

Safe Work and Environments Pty Ltd (SWE) was engaged by [REDACTED] to undertake an asbestos clearance inspection & report following the removal of the remaining non-friable asbestos containing materials (ACM) from the residential building located at 37 Goulburn Street, Macquarie ACT. [REDACTED], a Licensed Asbestos Assessor [REDACTED] undertook a clearance inspection upon completion of the works on the 20<sup>th</sup> of March, 2017.

The scope of work involved the following:

- Completion of an SHE&SWMS prior to undertaking works,
- Visual Inspection of the subject areas following the asbestos removal works as per the scope of removal,
- Preparation of an Asbestos Clearance Report outlining the site information, conclusions and recommendations (if necessary).

## Background

The residential property is one which has been affected by the installation of loose-fill asbestos (Mr. Fluffy). As such, the house is undergoing asbestos removal and demolition as a part of the Mr. Fluffy homes buy-back and demolition scheme. This asbestos clearance report follows the L&D Consulting "Mr Fluffy" Pre-Demolition Asbestos Assessment dated October 2016. The Scope of Removal has been derived from the asbestos containing materials identified within the L&D Consulting report. This report is also preceded by the SWE Asbestos Clearance Report C101200E-CLR2.v1 (friable asbestos clearance report) and this report should be read in conjunction this document henceforth.

This asbestos clearance report pertains to the non-friable asbestos removal works which requires all remaining non-friable asbestos materials to the exterior of the house to be removed following the completion and validation of the friable asbestos removal process. At the completion of these works and satisfaction of the visual clearance inspection, it is considered that all visible and accessible asbestos containing materials will have been removed from the site and the structure is ready for demolition.

C101200E-CLR3.v1 - Final Asbestos Clearance Report - 37 Goulburn St, Macquarie ACT

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**Canberra Office:**  
PO Box 230, Dickson ACT 2602  
Ph: 02 6247 0022

## Scope of Removal

The following lists the scope of asbestos removal undertaken by the licensed asbestos removalist (Empire Contracting) prior to the clearance inspection carried out on the 20<sup>th</sup> of March, 2017:

- Removal of the asbestos cement eaves to the house exterior,
- Removal of the asbestos cement eaves to the garage exterior
- Removal of the asbestos cement walls to the middle bathroom,
- Removal of the asbestos cement panel to the rear of garage,
- Removal of the presumed asbestos containing electrical mounting board, and
- Application of paint / pigmented PVA solution to all the surfaces of non-asbestos building materials which remain at the locations of the non-friable asbestos removal.

## Inspection Details

The inspection included the exterior of the house building and the remaining aluminium, meter board box. The visual clearance inspection confirmed that the asbestos containing materials listed in the scope of removal (above) have been appropriately removed from the subject areas. At the completion of the visual clearance inspection, the assessor observed surfaces of the remaining building materials to be coated in paint.

It must be noted that this asbestos clearance inspection was undertaken in consultation with the L&D Consulting Asbestos Assessment report, and all asbestos materials identified in the report have been addressed. The aforementioned report presumed the presence of asbestos cement packers to the sub-floor area of the house; these were not removed as a part of this scope, however, will be removed at an appropriate time during demolition.

## Conclusions & Recommendations

Based on the data presented in this report, it is the opinion of Safe Work & Environments Pty Ltd that:

- The visual clearance inspection confirmed that the asbestos materials have been satisfactorily removed from the subject areas as per the scope of removal,
- All surfaces and voids associated with the non-friable asbestos removal have been appropriately coated in paint solution, and
- The asbestos removal works are considered to be complete and the next stage of works may now occur (demolition of building).

## Limitations

This report and the associated services performed by SWE are in accordance with the scope of services set out in the agreement between SWE and the Client. The scope of services was defined by the requests of the Client, by the time and budgetary constraints imposed by the Client, and by the availability of access to the Subject Site. This Asbestos Clearance Report inspected the remaining building materials and does not take into account soil subsurface conditions.

SWE derived the data in this report primarily from limited sample collection and analysis made on the dates indicated. In preparing this report, SWE has relied upon, and presumed accurate, certain information provided by government authorities, the Client and others identified herein. Except as otherwise stated in the report, SWE has not attempted to verify the accuracy or completeness of any such information.

No warranty, undertaking, or guarantee, whether expressed or implied, is made with respect to the data reported or to the findings, observation, conclusions and recommendations expressed in this report. Furthermore, such data, findings, observations, conclusions and recommendations are based solely upon the existence at the time of the investigation. The passage of time, manifestation of latent conditions or impacts of future events (e.g. changes in legislation, scientific knowledge, land uses, etc.) may require further investigation at the site with subsequent data analysis and re-evaluation of the findings, observation, conclusions and recommendations expressed in this report.

This report has been prepared on behalf of and for the exclusive use of the Client, and is subject to and issued in connection with the provisions of the agreement between SWE and the Client. SWE accepts no liability or responsibility whatsoever and expressly disclaims any responsibility for or in respect of any use of or reliance upon this report by any third party or parties.

Should you have any queries regarding this certificated, please do not hesitate to contact me on the undersigned.

Sincerely,

██████████  
Senior Environmental & Hazmat Consultant

**Safe Work and Environments Pty Ltd**

PO Box 230, Dickson ACT 2602

P: (02) 6247 0022

M: ██████████

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CAPCORP GROUP

**11 SAVILLE CLOSE, MELBA, ACT 2615**  
**ASBESTOS CLEARANCE CERTIFICATE**

MAY 2017

CONFIDENTIAL

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**11 SAVILLE CLOSE,  
MELBA, ACT 2615  
ASBESTOS CLEARANCE  
CERTIFICATE**

CAPCORP GROUP

TYPE OF DOCUMENT (VERSION)  
CONFIDENTIAL

PROJECT NO 2259211C  
DATE: MAY 2017

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REV	DATE	DETAILS
A	18/05/2017	Original

	NAME	DATE	SIGNATURE
Prepared by:		18/05/2017	
Reviewed by:		18/05/2017	

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PROJECT NO 2259211C OUR REF: 2259211C\_CAPCORP\_11\_SAVILLE\_CL\_MELBA\_GROUND\_CLEARANCE\_18052017  
MAY 2017

# CLEARANCE CERTIFICATE - ASBESTOS REMOVAL

COMPLIANT WITH PART 3.10 OF SAFE WORK AUSTRALIA DOCUMENT: HOW TO SAFELY REMOVE ASBESTOS, CODE OF PRACTICE 2014

AS ENFORCED BY WORKSAFE ACT.

## SECTION A - GENERAL DETAILS

<b>Client details</b>	
Name of client:	Capcorp Group Pty Ltd
Client contact details:	
<b>Asbestos removal work details</b>	
Site address where asbestos removal work is being carried out:	11 Saville Close, Melba ACT 2615
Date(s) asbestos removal work carried out:	1 <sup>st</sup> May to 18 <sup>th</sup> May 2017
Scope of work (as advised by client/contractor):	Removal of the top 150mm of soil from the residential dwelling footprint to remove potentially asbestos impacted waste which is derived from the demolition of the residential dwelling at 11 Saville Close, Melba ACT 2615. The excavator was decontaminated on site.
Details of the specific asbestos removal work area(s):	Ground surfaces of the residential dwelling footprint
Type of asbestos containing material removed:	<input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input checked="" type="checkbox"/> Asbestos impacted waste
Name of Demolition Contractor:	
Licence Details:	N/A

## SECTION B - ASBESTOS IMPACTED WASTE REMOVAL




Date of clearance inspection:	Thursday 18 <sup>th</sup> May 2017
Evidence of PVA/sealant application:	Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>
The transit route and waste routes are free from any visible asbestos	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>
Limitation of Clearance	WSP Australia visually inspected the demolition works area ground surfaces, and external surfaces of the excavator within the scope of works and determined that the asbestos impacted waste has been removed and the areas cleaned to a satisfactory level. This inspection and clearance certificate is valid for areas which were visually accessible at the time of inspection.
Areas not accessed:	Areas below the ground surface, ground surfaces outside of the demolition works area
Visual inspection satisfactory:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Clearance and/or Control air monitoring conducted:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Results of air monitoring satisfactory:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>
Comments:	Levels of respirable airborne fibres were found to be below the detection limit of <0.01fibres/ml

### SECTION C - CLEARANCE DECLARATION

I declare that:

Based on the above findings the ground surfaces of the demolition work area is considered visually clear of asbestos impacted waste.

### SECTION D - ASSESSORS SIGNATURE

Prepared by:		Date: 18/05/2017	Signature:	
Assessor Number				

### - ATTACHMENT TICK LIST

Certificate of analysis	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA <input type="checkbox"/>
Photographs	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>
Site maps/plans/sketches	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>

### - STANDARD LIMITATIONS OF CLEARANCE INSPECTIONS (NSW/ACT)

In accordance with WHS regulation 2016, Chapter 8, Part 8.7, Clause 473: "A clearance inspection is an inspection of an asbestos removal area after asbestos removal work has been completed to verify that the area is safe for normal use, that: (a) includes a visual inspection, and (b) may include air monitoring".

The surface area and immediate vicinity has been visually determined to be clear of visible asbestos residue as specified for remediation. This clearance certificate is valid for areas which were visually accessible at the time of inspection as detailed in the scope of works.

Inspections are only carried out to the areas detailed to be removed and are conducted where access is available. Specifically no inspection has been carried out to areas that may require further remediation to verify the presence of asbestos. Please note that the visual clearance is limited to the surface of material(s) and/or soil(s) which were safely accessible at the time of inspection.

It should be noted that no inspection can be regarded as absolute and that additional asbestos may be encountered or uncovered upon further inspection, building works, or in particular excavations. The inspection was carried out at the time of the completion of the remediation works and was dependent upon site conditions at that time. WSP Australia accepts no responsibility or liability for the completeness of the removal. Comments above regarding the aspects of the inspection also form limitations. The contractor's responsibilities included:

- Ensuring that work methods and procedures comply with the relevant legislation, codes of practice and industry standards, and undertake work in accordance with technical specifications.
- Employing suitably trained, skilled and competent staff.
- Ensuring that contractors are inducted in safe work procedures for asbestos materials/products.
- Obtaining the necessary approvals from regulatory authorities prior to starting any asbestos removal or maintenance activities.
- Ensuring that all work is conducted in a safe and competent manner.

# APPENDIX A

## PHOTOGRAPHS



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# A1 PHOTOGRAPHS



**Photograph 1** – Dwelling footprint, ground surfaces taken from East side of the site



**Photograph 2** – Dwelling footprint, ground surfaces taken from North side of the site



**Photograph 3** – Dwelling footprint ground surfaces taken from West side of the site



**Photograph 4** – Dwelling footprint ground surfaces taken from South side of the site



**Photograph 5** – Excavator after decontamination



**Photograph 6** – Excavator tracks after decontamination



**Photograph 7** – Excavator bucket after decontamination



**Photograph 8** – Excavator tracks after decontamination







# APPENDIX B

## SITE PLAN





**Key:**

- |  |  |  |
|--|--|--|
|  Waste Bin Location   |  Demolition Work Area |  Designated Truck Loading Area |
|  Decontamination Unit |  House Footprint      |  Plant Decontamination Area    |

## **Loose Fill Asbestos Site Soil Validation Report**

PAGE Block # 14, Section # 32,  
56 Belconnen Way, Page 2614 ACT

**Prepared by:** OCTIEF Pty Ltd

**For**

**ACT Asbestos Response Taskforce**

### **Introduction**

This report contains the results of an investigation and remediation of asbestos fibres in soil of the demolition work area of a property which is a registered loose fill asbestos affected property.

The Australian Capital Territory ('Territory) has acquired a number of properties affected with loose fill asbestos insulation (comprising mainly amosite and some crocidolite asbestos) and is carrying out remediation of the demolition work area of the properties to ensure that the land is suitable for future residential reuse.

We were engaged by the Territory to provide sampling to validate the remediation of asbestos fibres in soil within the demolition work area for the sole purpose of assisting the Territory with its pre-development investigations in land identified for release for future residential reuse following completion of preliminary works by others, namely:

- . demolition of the house by a principal contractor, including a scrape of affected soil;
- . clearance of the site as free of visible asbestos by a licensed asbestos assessor; and
- . definition of the demolition work area by a licensed asbestos assessor.

The demolition work area is the area to which the asbestos removal clearance certificate applies and is defined by the licensed asbestos assessor. It generally comprises the original pre-demolition structure footprint of the affected premises, the decontamination unit and asbestos waste skip handling area, and the soil disturbance work area of the demolition contractor. It excludes the remainder of the property including earthworks outside of the demolition work area where other non-affected structures have been removed or landscaping work carried out. The licensed asbestos assessor prepared a simple plan of the demolition work area for later sampling of soil by [REDACTED] under the guidance of [REDACTED] (Licensed Asbestos Assessor, license no. [REDACTED]) the OCTIEF Pty Ltd soil validator.

Prior to sampling of soil in the demolition work area (refer to the methodology used for the sampling of soils described below), [REDACTED] of OCTIEF Pty Ltd met with the principal contractor [REDACTED] of SHAW Building Group Pty Ltd who identified the extent of the demolition work area (as defined by the licensed asbestos assessor). The confirmed demolition work area for soil sampling is illustrated in Attachment 2.

The scope of work was performed solely for the Territory and specifically targeted loose fill asbestos insulation (comprising mainly amosite and some crocidolite fibres). Any other forms of contaminants on site (e.g. lead, bonded asbestos) were not assessed. This report (including the conclusions and recommendations it contains) is prepared solely for use by the Territory and may not be used or relied upon by any other party. Any other party must make its own inquiries and obtain independent advice.

We have assumed the accuracy and completeness of all information provided to it by the principal contractor and licensed asbestos assessor, and the integrity of the clearance certificate provided as Attachment 4.

The asbestos fibre in soil investigation was done in accordance with the Asbestos Response Taskforce Information sheet - Soil Validation Process (dated 10 November 2015), the ACT Government-endorsed *National Environment Protection (Assessment of Site Contamination) Measure 1999 (as amended 2013)* (the NEPM ASC) and the 'Guidelines for the Assessment, Remediation and Management of Asbestos- Contaminated Sites in Western Australia (May 2009)' (the WA Guidelines).

The investigation was undertaken after all visible loose fill asbestos and any other visible asbestos containing materials had been removed from the demolition work area, including a scrape of affected soil from the demolition work area, and a post demolition asbestos removal clearance certificate was issued by licensed asbestos assessor [REDACTED] of Lancaster & Dickenson Consulting Pty Ltd [REDACTED].

### **Site Identification and Soil Condition of Demolition Work Area**

Soil sampling was conducted at the demolished dwelling located at 56 Belconnen Way, Page 2614 ACT. At the time of inspection, a free standing garden shed was identified towards the northern elevation of the site, with some foliage present around northern, eastern, southern and western boundaries. The approximate size of the block and demolition work area was 917m<sup>2</sup> and 417m<sup>2</sup> respectively.

Prior to soil sampling, the soil at the site demolition work area was noted to be silt and clay. The soil was moist during sampling.

### **Site Demolition Work Area and Sampling Plan**

An initial site walkover was conducted to confirm the area outlined in the demolition work area, provided by the licenced assessor, was sufficient to contain all soil validation sampling points required. The provided demolition work area sufficiently incorporated the demolition disturbance area, the house foot print, decontamination areas and areas accessed with machinery and equipment. No additional areas appeared to be disturbed at the time inspection.

Soil validation sampling points in relation to the demolition work area are provided below in Figure 1.

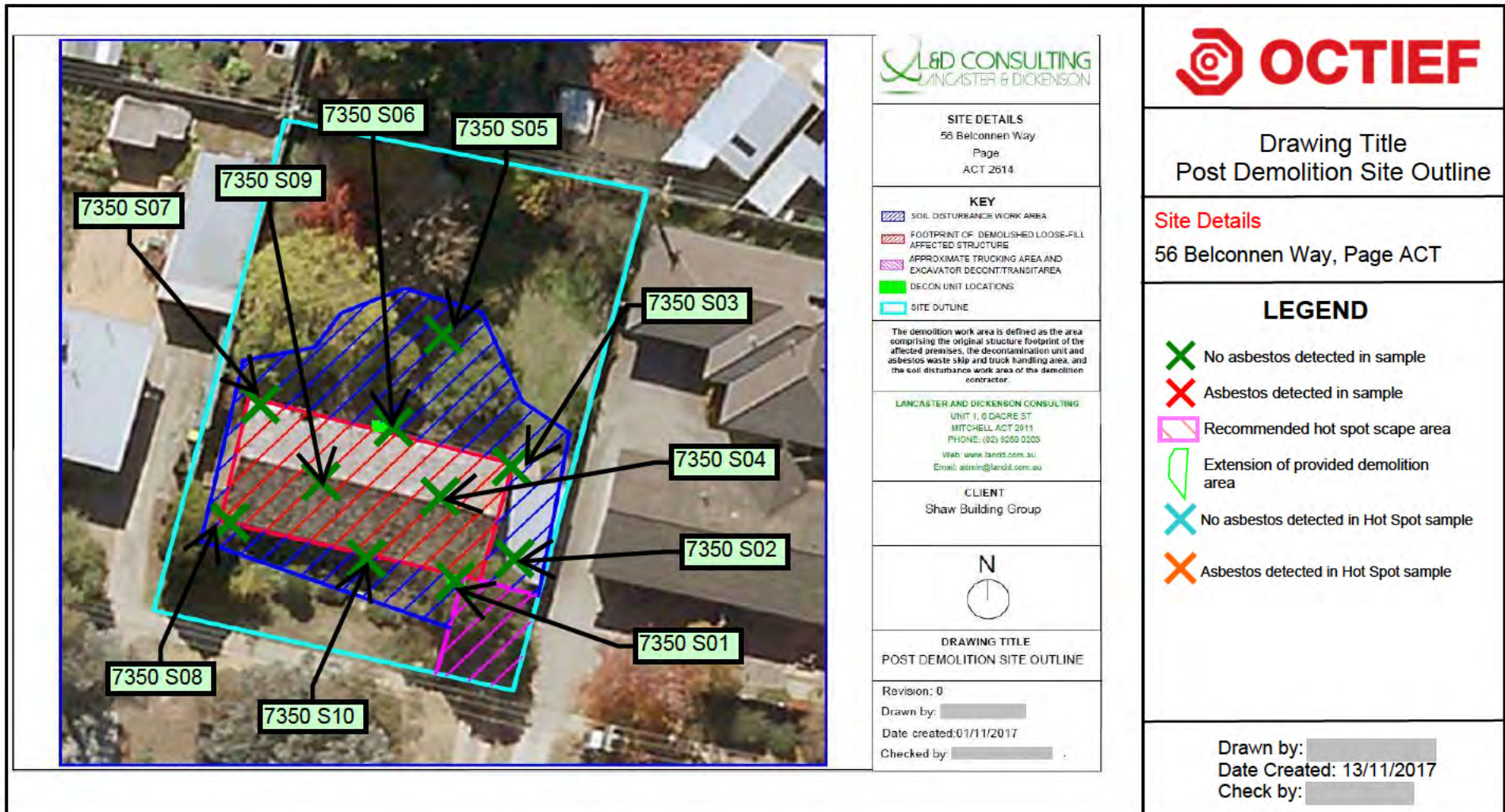


Figure 1. Site demolition work area and sampling plan

## Soil Sampling Methodology At Demolition Work Area

We attended the site on 8<sup>th</sup> of November 2017 after the principal contractor confirmed the completion of demolition work and site clearance by the licensed asbestos assessor.

Soil sampling was conducted in accordance with the WA Guidelines, using twice the minimum density in Appendix A of WA Guidelines. Ten (10) samples were taken from across the footprint of the demolished dwelling, as well as waste/decontamination areas.

## Soil Validation Results

The following soil validation sample results were returned from the NATA accredited laboratory, with the laboratory certificate provided at Attachment 1.

Sample No	Result/Asbestos Fibre Type	Comments/Sample Details
7350-S01	No asbestos detected Organic fibres	Sample collected from the southern decontamination area. No further remediation required.
7350-S02	No asbestos detected Organic fibres	Sample collected from the eastern elevation of the demolition area. No further remediation required.
7350-S03	No asbestos detected Organic fibres	Sample collected from the north-eastern corner of the housing footprint. No further remediation required.
7350-S04	No asbestos detected Organic fibres	Sample collected from the eastern centre of the housing footprint. No further remediation required.
7350-S05	No asbestos detected Organic fibres	Sample collected from the northern elevation of the demolition area. No further remediation required.
7350-S06	No asbestos detected Organic fibres	Sample collected from the northern decontamination area. No further remediation required.
7350-S07	No asbestos detected Organic fibres	Sample collected from the north-western corner of the housing footprint. No further remediation required.
7350-S08	No asbestos detected Organic fibres	Sample collected from the south-western corner of the housing footprint. No further remediation required.
7350-S09	No asbestos detected Organic fibres	Sample collected from the western centre of the housing footprint. No further remediation required.
7350-S10	No asbestos detected Organic fibres	Sample collected from the southern elevation of the housing footprint. No further remediation required.

## Analytical Procedures

Asbestos in soil analysis was carried out in accordance with the NEPM ASC and the 'Australian Standard for the Qualitative Identification of Asbestos in Bulk Samples' (AS4964-2004).

## Hot Spot Treatment

All **ten** samples returned a **negative** result for asbestos and as such **no** hotspot treatment was undertaken or required.


## Recommendation for Residential Reuse

The asbestos in soil investigation and remediation work to address potential impact of asbestos fibres in the demolition work area of a former house affected by loose fill asbestos at 56 Belconnen Way, Page 2614 ACT has been completed as detailed in this report, in accordance with the NEPM ASC and the WA Guidelines. On that basis, I recommend to the Territory that the demolition work area of this property is suitable for residential reuse with respect to asbestos fibres.

### For and on behalf of OCTIEF Pty Ltd:



Australian Capital Territory

Licensed Asbestos Assessor Licence Number: 

Date: 13<sup>th</sup> of November 2017

## **Attachment 1 – Laboratory Certificate of Analysis**

## Asbestos Soil Sample Analysis Report Certificate No WA1711101453

<b>Client:</b>	Procurement and Capital Works	<b>Sampled By:</b>	██████████
<b>Client Contact:</b>	Ben McDuff	<b># of Samples Submitted:</b>	10
<b>Telephone:</b>	02 6205 9920	<b>Sampling Date:</b>	08/11/2017
<b>Email:</b>	<a href="mailto:Ben.McDuff@act.gov.au">Ben.McDuff@act.gov.au</a>	<b>Date Received:</b>	08/11/2017
<b>Project:</b>	J7350	<b>Identification Date:</b>	10/11/2017
<b>Site Location:</b>	56 Belconnen Way, Page ACT	<b>Issue Date:</b>	13/11/2017

**Test Methodology:** OCTIEF laboratory procedures and methods used for the identification and quantification of asbestos in soils are consistent with AS4964-2004 and the requirements of the NEPM 2013 Assessment of Site Contamination, and in accordance with In-House Procedures QP-930-001 and QP-931-001.

### Acronyms

CHR	Chrysotile (white asbestos) fibres detected	ORG	Organic fibres detected
AMO	Amosite (brown / grey asbestos) fibres detected	SMF	Synthetic mineral fibres detected
CRO	Crocidolite (blue asbestos) fibres detected	UMF	Unidentified mineral fibres detected
ACM	Asbestos containing material	NAD	No Asbestos Detected
AF	Asbestos fines	FA	Fibrous asbestos

### Notes

Detection limit (AS 4964) – 0.1 g/kg. LOR for asbestos quantification for AF and FA (NEPM) is 0.001% (Non NATA)  
 The results contained within this report relate only to the sample(s) submitted for analysis and OCTIEF accepts no responsibility for the collection, packaging and transportation of sample submitted by external parties. Sample descriptions, sizes and weights are approximate only. NATA does not accredit sampling.  
 Asbestos weights and percentages are not covered under the Scope of NATA Accreditation therefore 'NATA accreditation does not cover the performance of this service'. Weights of Asbestos are based on extracted bulk asbestos, fibre bundles, and/or ACM and do not include respirable fibres (if present). Percentages for Asbestos content in ACM and soil density are based on the NEPM 2013 default values. All numerical results under this method are approximate and should be used as a guide only.  
 Trace Asbestos Detected means the results can be interpreted as containing detectable 'respirable' asbestos fibres as per AS 4964 (LOR 5 fibres).



Accredited for compliance with ISO/IEC 17025 – Testing  
 The results of the tests, calculations and/or measurements included in this document are traceable to Australian/National standards.  
 NATA accreditation number: 15172  
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**Table 1 - Results of sample examination using polarised light microscopy (PLM) including Dispersion Staining**

Qualitative Results (NATA)							Quantitative Results (non NATA)					
AS 4964 – 2004 Identification of Asbestos in Bulk Samples							National Environment Protection (Assessment of Site Contamination) Measure (2013)					
Sample ID	Sample Location	Sample Description	Approx. Sample Weight (dry) (g)	Asbestos Detected	Fibre Type Detected	Trace Asbestos Detected	Approx. Sample Weight (dry) (kg)	AF / FA (2 - 7mm)		AF / FA (<2mm)		
								Weight of AF/FA (g)	AF/FA (as 100% Asbestos in AF/FA) (%)	Sub-sample Weight (g)	Weight of AF/FA (g)	AF / FA (as 100% asbestos in AF/FA) (%)
7350-S01	Southern decontamination area	Soil	1078	No	NAD-ORG	No	1.078	0.000	<0.001	100.00	0.0000	<0.001
7350-S02	Eastern elevation of demolition area	Soil	975	No	NAD-ORG	No	0.975	0.000	<0.001	100.00	0.0000	<0.001
7350-S03	North-eastern corner of housing footprint	Soil	1057	No	NAD-ORG	No	1.057	0.000	<0.001	100.00	0.0000	<0.001
7350-S04	Eastern centre of housing footprint	Soil	1211	No	NAD-ORG	No	1.211	0.000	<0.001	104.00	0.0000	<0.001

**Notes**

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Trace Asbestos Detected means the results can be interpreted as containing detectable 'respirable' asbestos fibres as per AS 4964 (LOR 5 fibres).



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								Weight of AF/FA (g)	AF/FA (as 100% Asbestos in AF/FA) (%)	Sub-sample Weight (g)	Weight of AF/FA (g)	AF / FA (as 100% asbestos in AF/FA) (%)
7350-S05	Northern elevation of demolition area	Soil	976	No	NAD-ORG	No	0.976	0.000	<0.001	100.00	0.0000	<0.001
7350-S06	Northern decontamination area	Soil	1032	No	NAD-ORG	No	1.032	0.000	<0.001	101.00	0.0000	<0.001
7350-S07	North-western corner of housing footprint	Soil	1033	No	NAD-ORG	No	1.033	0.000	<0.001	102.00	0.0000	<0.001
7350-S08	South-western corner of housing footprint	Soil	1107	No	NAD-ORG	No	1.107	0.000	<0.001	101.00	0.0000	<0.001
7350-S09	Western centre of	Soil	1039	No	NAD-ORG	No	1.039	0.000	<0.001	101.00	0.0000	<0.001

**Notes**

Detection limit (AS 4964) – 0.1 g/kg. LOR for asbestos quantification for AF and FA (NEPM) is 0.001% (Non NATA)

The results contained within this report relate only to the sample(s) submitted for analysis and OCTIEF accepts no responsibility for the collection, packaging and transportation of sample submitted by external parties. Sample descriptions, sizes and weights are approximate only. NATA does not accredit sampling.

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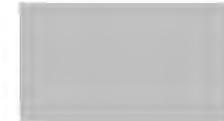
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								Weight of AF/FA (g)	AF/FA (as 100% Asbestos in AF/FA) (%)	Sub-sample Weight (g)	Weight of AF/FA (g)	AF / FA (as 100% asbestos in AF/FA) (%)
	housing footprint											
7350-S10	Southern elevation of housing footprint	Soil	1036	No	NAD-ORG	No	1.036	0.000	<0.001	101.00	0.0000	<0.001

Approved Identifier:



Report Approved By:



**Notes**

Detection limit (AS 4964) – 0.1 g/kg. LOR for asbestos quantification for AF and FA (NEPM) is 0.001% (Non NATA)

The results contained within this report relate only to the sample(s) submitted for analysis and OCTIEF accepts no responsibility for the collection, packaging and transportation of sample submitted by external parties. Sample descriptions, sizes and weights are approximate only. NATA does not accredit sampling.

Asbestos weights and percentages are not covered under the Scope of NATA Accreditation therefore 'NATA accreditation does not cover the performance of this service'. Weights of Asbestos are based on extracted bulk asbestos, fibre bundles, and/or ACM and do not include respirable fibres (if present). Percentages for Asbestos content in ACM and soil density are based on the NEPM 2013 default values. All numerical results under this method are approximate and should be used as a guide only.

Trace Asbestos Detected means the results can be interpreted as containing detectable 'respirable' asbestos fibres as per AS 4964 (LOR 5 fibres).



Accredited for compliance with ISO/IEC 17025 – Testing

The results of the tests, calculations and/or measurements included in this document are traceable to Australian/National standards.

NATA accreditation number: 15172

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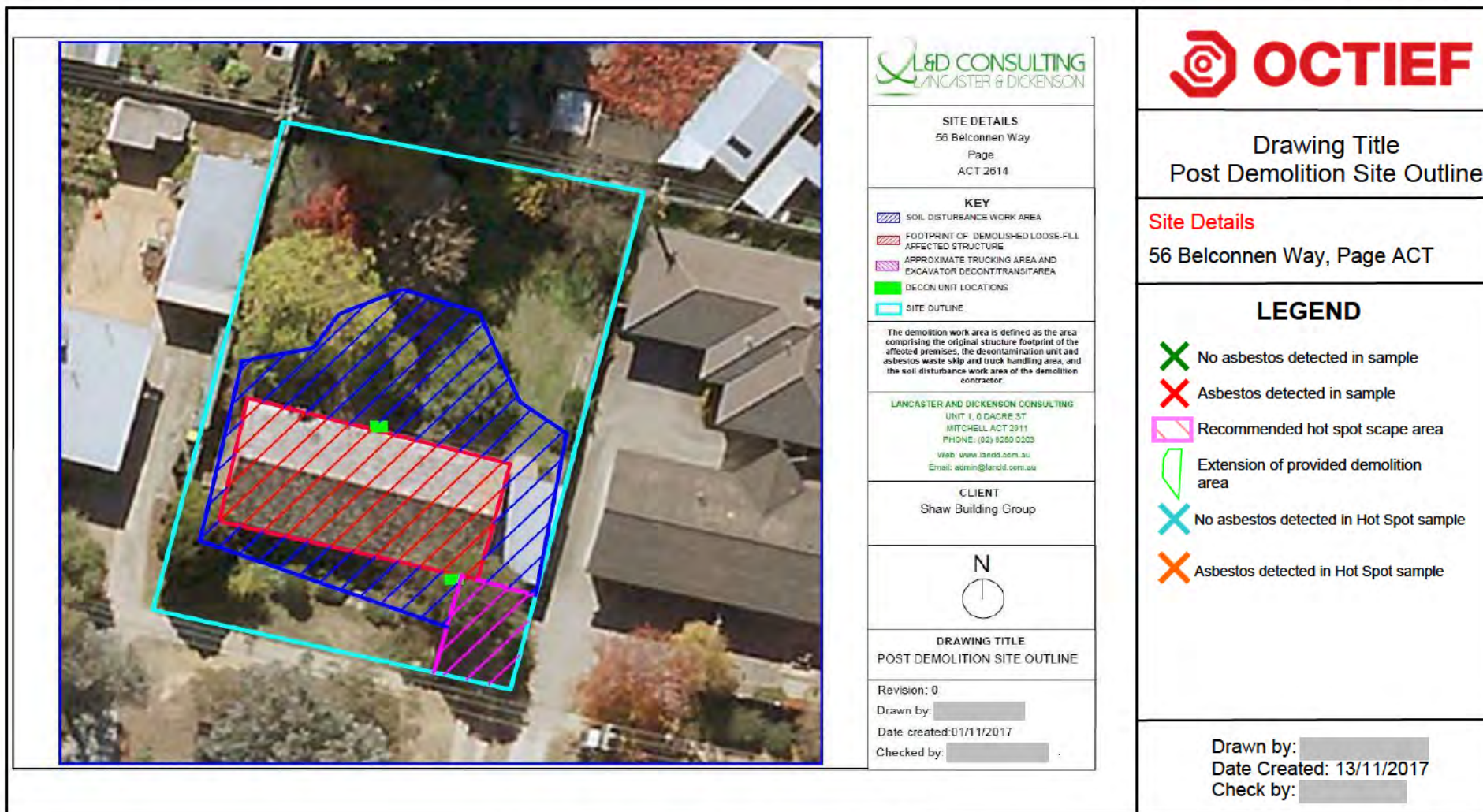


Figure 1. Site demolition work area and sampling plan

### Attachment 3 – Site Photographs



Figure 1 Site overview of demolition footprint.



Figure 2 Site overview of demolition footprint.



Figure 3 Soil validation sample location/s (from the left) view from the south-eastern corner of the demolition area to the western boundary/demolition corner: S09, S07, S06, S01, S04, S05 and S03.



Figure 4 Soil validation sample location/s (from the left) view from the south-eastern corner of the demolition area to the eastern boundary: S02.



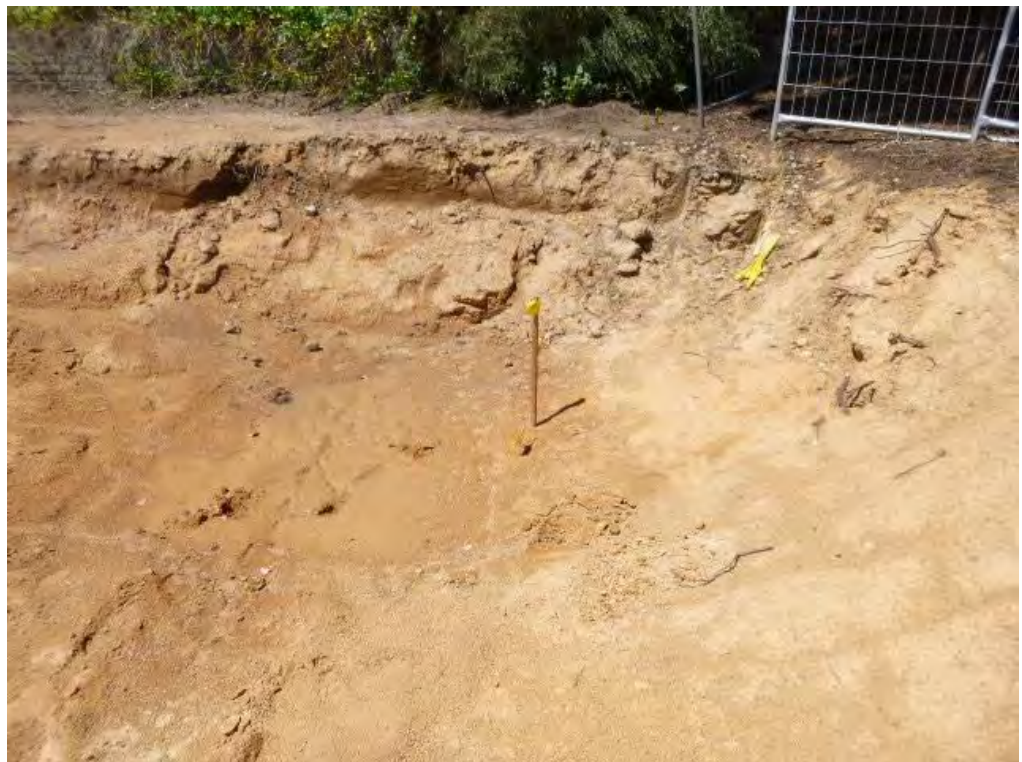
Figure 5 Soil validation sample location/s (from the left) view from the centre of the housing footprint to the southern boundary (road entrance): S03, S02, S04 and S01.



Figure 6 Soil validation sample location/s (from the left) view from the northern elevation of the demolition area to the northern boundary: S05.



**Figure 7** Soil validation sample location/s (from the left) view from the north-western corner of the housing footprint to the southern boundary corner (road entrance): S06, S03, S04, S07, S02, S01, S10 and S09.



**Figure 8** Soil validation sample location/s (from the left) view from the south-western corner of the housing footprint to the northern boundary/demolition corner: S08.

## **Attachment 4 – Clearance Certificate**



## Post-demolition Site Clearance Certificate

L&D Job Reference: LD2742AA Inspection date: 1 November 2017  
Asbestos Removalist: Empire Contracting Inspection time: 8:30 AM  
Location: 56 Belconnen Way, Page  
Description of Work: Removal of building waste following demolition of remediated 'Mr Fluffy' structure and subsequent soil scrape of demolition area<sup>1</sup>  
Inspected by: [REDACTED] (ACT Licensed Asbestos Assessor - [REDACTED])

Lancaster & Dickenson Consulting Pty Ltd was engaged as independent ACT licensed Asbestos Assessors to undertake a visual inspection of the demolition area following the demolition of the loose-fill asbestos contaminated property located at 56 Belconnen Way, Page.

An inspection of the demolition area carried out, on Wednesday, 1 November 2017, found no significant building materials on the soil surface. Photographs of the site at the time of the inspection are presented in Appendix A. Results of air-monitoring undertaken throughout the asbestos removal and demolition of the property are presented in Appendix B. A plan of the demolition area is presented in Appendix C.

The assessor has determined that the asbestos exposure risk associated with the demolition of the loose-fill asbestos contaminated property located at 56 Belconnen Way, Page has been suitably mitigated to permit the soil validation process, as detailed in the '*Soil Validation Process InfoSheet*' released in November 2015 by Worksafe ACT and the ACT Asbestos Response Taskforce, to commence.

All access/works undertaken within the demolition area of the site prior to the satisfactory completion of the soil validation process **should be considered 'asbestos-related work'** as per Section 419 of the *ACT Work, Health and Safety Regulations 2011 (Approval 2014)*. All requirements associated with undertaking '**asbestos-related work**' as detailed in the *ACT Work Health and Safety (How to Safely Remove Asbestos Code of Practice) approval 2014* must be complied with.

Once the soil validation process has been suitably completed, i.e. when all (if any) asbestos hotspots identified during the soil validation process have been satisfactorily remediated, this document may be considered a clearance certificate for the works described above.

Note: Asbestos fibre and/or asbestos material may be present at depth or within soils outside the inspected area. A metal garden shed remains to the rear of the site.

[REDACTED]  
Licence No: [REDACTED]  
Lancaster & Dickenson Consulting Pty Ltd

<sup>1</sup>For the purposes of this report, the demolition work area comprises the original pre-demolition structure footprint of the affected premises, the decontamination units, asbestos waste skip and truck handling area and the soil disturbance work area of the demolition contractor and is presented in the site plan shown in Appendix B.

*Appendix A*  
*Photographs*

APPENDIX A: Photographs



Photograph 1

Demolition and removal of 'Mr Fluffy' property and soil scrape



Photograph 2

Demolition and removal of 'Mr Fluffy' property and soil scrape

*Appendix B*  
*Air Monitoring Results*

### AIRBORNE ASBESTOS FIBRE ESTIMATION TEST REPORT


<b>Job Reference:</b> LD2742AA	<b>Address:</b> 1/6 Dacre Street, Mitchell ACT 2911
<b>Client Name:</b> Shaw Building Group	
<b>Asbestos Removalist:</b> Empire Contracting	<b>Lab Manager:</b> <span style="background-color: grey; color: grey;">XXXXXXXXXX</span>
<b>Site Location:</b> 56 Belconnen Way, Page	<b>Email:</b> admin@landd.com.au
<b>Description of Works:</b> Background air monitoring during final clean and paint	

<b>Sampling Date:</b> 28/09/2017	<b>Sampled by:</b> <span style="background-color: grey; color: grey;">XXXXXXXXXX</span>	<b>Analysis Date:</b> 28/09/2017	<b>Report issue Date:</b> 28/09/2017
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Field blank for week commencing 25/09/2017 with reference number FBKL25092017 returned a count of 0 fibres.

**Test Specifications:** NOHSC: Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003 (2005)] and methods identified in Section B of the L & D Laboratory Manual  
 Samples taken from the direct flow of negative air units are reported as a fibre count only.  
 The NOHSC: 3003 (2005) recommended Control Level for all forms of asbestos is 0.01 fibres/mL.  
 Safe Work Australia's recommended Exposure Standard for all forms of asbestos is 0.1 fibres/mL  
 B = Background monitoring, C = Clearance monitoring, E = Exposure monitoring  
**Accredited for compliance with ISO / IEC 17025.**

Sample Reference	Sample Location	Monitoring Type	Time on	Time off	Ave. flow rate (mL/min)	Fields Counted	Fibres Counted	Airborne fibre conc. (fibres/ml)
LD2742AA-11	Eastern site boundary	B	0703	1638	1000	100	0	< 0.01
LD2742AA-12	Northern site boundary – on top of shed	B	0704	1639	1000	100	0	< 0.01
LD2742AA-13	Personal decontamination unit	B	0706	1640	1000	100	0	< 0.01
LD2742AA-14	Western site boundary	B	0707	1642	1000	100	0	< 0.01
LD2742AA-15	Southern site boundary	B	0709	Pump lost	-	-	-	-

L&D Approved Counter	 <small>WORLD RECOGNISED ACCREDITATION</small> <b>Accreditation no: 19512</b>	L&D Approved Signatory
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<small>Page 1 of 1</small>		

### AIRBORNE ASBESTOS FIBRE ESTIMATION TEST REPORT


<b>Job Reference:</b> LD2742AA	<b>Address:</b> 1/6 Dacre Street, Mitchell ACT 2911
<b>Client Name:</b> Shaw Building Group	
<b>Asbestos Removalist:</b> Empire Contracting	<b>Lab Manager:</b> <span style="background-color: grey; color: grey;">XXXXXXXXXX</span>
<b>Site Location:</b> 56 Belconnen Way, Page	
<b>Description of Works:</b> Clearance air monitoring	<b>Email:</b> admin@landd.com.au

<b>Sampling Date:</b> 29/09/2017	<b>Sampled by:</b> <span style="background-color: grey; color: grey;">XXXXXXXXXX</span>	<b>Analysis Date:</b> 29/09/2017	<b>Report issue Date:</b> 29/09/2017
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Field blank for week commencing 25/09/2017 with reference number FBKL25092017 returned a count of 0 fibres.

**Test Specifications:** NOHSC: Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003 (2005)] and methods identified in Section B of the L & D Laboratory Manual  
 Samples taken from the direct flow of negative air units are reported as a fibre count only.  
 The NOHSC: 3003 (2005) recommended Control Level for all forms of asbestos is 0.01 fibres/mL.  
 Safe Work Australia's recommended Exposure Standard for all forms of asbestos is 0.1 fibres/mL  
 B = Background monitoring, C = Clearance monitoring, E = Exposure monitoring  
**Accredited for compliance with ISO / IEC 17025.**

Sample Reference	Sample Location	Monitoring Type	Time on	Time off	Ave. flow rate (mL/min)	Fields Counted	Fibres Counted	Airborne fibre conc. (fibres/ml)
LD2742AA-16	Removal enclosure (West)	C	1055	1158	1500	100	0	< 0.01
LD2742AA-17	Removal enclosure (East)	C	1056	1159	1500	100	0	< 0.01

L&D Approved Counter	 <small>WORLD RECOGNISED ACCREDITATION</small> <b>Accreditation no: 19512</b>	L&D Approved Signatory
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### AIRBORNE ASBESTOS FIBRE ESTIMATION TEST REPORT

<b>Job Reference:</b> LD2742AA	<b>Address:</b> 1/6 Dacre Street, Mitchell ACT 2911
<b>Client Name:</b> Shaw Building Group	<b>Lab Manager:</b> <span style="background-color: gray; color: gray;">XXXXXXXXXX</span>
<b>Asbestos Removalist:</b> Empire Contracting	<b>Email:</b> admin@landd.com.au
<b>Site Location:</b> 56 Belconnen Way, Page	
<b>Description of Works:</b> Background air monitoring during demolition	

<b>Sampling Date:</b> 19/10/2017	<b>Sampled by:</b> <span style="background-color: gray; color: gray;">XXXXXXXXXX</span>	<b>Analysis Date:</b> 19/10/2017	<b>Report issue Date:</b> 19/10/2017
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Field blank for week commencing 16/10/2017 with reference number FBED16102017 returned a count of 0 fibres.

**Test Specifications:** NOHSC: Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003 (2005)] and methods identified in Section B of the L & D Laboratory Manual  
 Samples taken from the direct flow of negative air units are reported as a fibre count only.  
 The NOHSC: 3003 (2005) recommended Control Level for all forms of asbestos is 0.01 fibres/mL.  
 Safe Work Australia's recommended Exposure Standard for all forms of asbestos is 0.1 fibres/mL  
 B = Background monitoring, C = Clearance monitoring, E = Exposure monitoring  
**Accredited for compliance with ISO / IEC 17025.**

Sample Reference	Sample Location	Monitoring Type	Time on	Time off	Ave. flow rate (mL/min)	Fields Counted	Fibres Counted	Airborne fibre conc. (fibres/ml)
LD2742AA-18	Eastern site boundary	B	0645	1620	1000	100	0	< 0.01
LD2742AA-19	Northern site boundary	B	0646	1621	1000	100	0	< 0.01
LD2742AA-20	Western site boundary	B	0647	1622	1000	100	0	< 0.01
LD2742AA-21	Southern site boundary	B	0648	1623	1000	100	0	< 0.01
LD2742AA-22	Excavator Cabin	B	0650	1625	1000	100	0	< 0.01

L&D Approved Counter	NATA WORLD RECOGNISED ACCREDITATION Accreditation no: 19512	L&D Approved Signatory
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Page 1 of 1		

### AIRBORNE ASBESTOS FIBRE ESTIMATION TEST REPORT


<b>Job Reference:</b> LD2742AA	<b>Address:</b> 1/6 Dacre Street, Mitchell ACT 2911
<b>Client Name:</b> Shaw Building Group	<b>Lab Manager:</b> <span style="background-color: grey; color: grey;">XXXXXXXXXX</span>
<b>Asbestos Removalist:</b> Empire Contracting	<b>Email:</b> admin@landd.com.au
<b>Site Location:</b> 56 Belconnen Way, Page	
<b>Description of Works:</b> Background air monitoring during demolition	

<b>Sampling Date:</b> 20/10/2017	<b>Sampled by:</b> <span style="background-color: grey; color: grey;">XXXXXXXXXX</span>	<b>Analysis Date:</b> 20/10/2017	<b>Report issue Date:</b> 20/10/2017
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Field blank for week commencing 16/10/2017 with reference number FBED16102017 returned a count of 0 fibres.

**Test Specifications:** NOHSC: Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003 (2005)] and methods identified in Section B of the L & D Laboratory Manual  
 Samples taken from the direct flow of negative air units are reported as a fibre count only.  
 The NOHSC: 3003 (2005) recommended Control Level for all forms of asbestos is 0.01 fibres/mL.  
 Safe Work Australia's recommended Exposure Standard for all forms of asbestos is 0.1 fibres/mL  
 B = Background monitoring, C = Clearance monitoring, E = Exposure monitoring  
**Accredited for compliance with ISO / IEC 17025.**

Sample Reference	Sample Location	Monitoring Type	Time on	Time off	Ave. flow rate (mL/min)	Fields Counted	Fibres Counted	Airborne fibre conc. (fibres/ml)
LD2742AA-23	Eastern site boundary	B	0642	1657	1000	100	0	< 0.01
LD2742AA-24	Northern site boundary	B	0643	1658	1000	100	0	< 0.01
LD2742AA-25	Western site boundary	B	0645	1659	1000	100	0	< 0.01
LD2742AA-26	Southern site boundary	B	0646	1701	1000	100	0	< 0.01
LD2742AA-27	Excavator Cabin	B	0647	1702	1000	100	0	< 0.01

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<p>Page 1 of 1</p>		

### AIRBORNE ASBESTOS FIBRE ESTIMATION TEST REPORT


<b>Job Reference:</b> LD2741 AA	<b>Address:</b> 1/6 Dacre Street, Mitchell ACT 2911
<b>Client Name:</b> Shaw Building Group	
<b>Asbestos Removalist:</b> Empire Contracting	<b>Lab Manager:</b> <span style="background-color: grey; color: grey;">XXXXXXXXXX</span>
<b>Site Location:</b> 56 Belconnen Way, Page	<b>Email:</b> admin@landd.com.au
<b>Description of Works:</b> Background air monitoring during internal strip and environmental clean	

<b>Sampling Date:</b> 26/09/2017	<b>Sampled by:</b> <span style="background-color: grey; color: grey;">XXXXXXXXXX</span>	<b>Analysis Date:</b> 26/09/2017	<b>Report issue Date:</b> 26/09/2017
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Field blank for week commencing 25/09/2017 with reference number FBKL25092017 returned a count of 0 fibres.

**Test Specifications:** NOHSC: Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003 (2005)] and methods identified in Section B of the L & D Laboratory Manual  
 Samples taken from the direct flow of negative air units are reported as a fibre count only.  
 The NOHSC: 3003 (2005) recommended Control Level for all forms of asbestos is 0.01 fibres/mL.  
 Safe Work Australia's recommended Exposure Standard for all forms of asbestos is 0.1 fibres/mL  
 B = Background monitoring, C = Clearance monitoring, E = Exposure monitoring  
**Accredited for compliance with ISO / IEC 17025.**

Sample Reference	Sample Location	Monitoring Type	Time on	Time off	Ave. flow rate (mL/min)	Fields Counted	Fibres Counted	Airborne fibre conc. (fibres/ml)
LD2742AA-1	Eastern site boundary	B	0725	1639	1000	100	0	< 0.01
LD2742AA-2	Northern site boundary – on top of shed	B	0727	1640	1000	100	0	< 0.01
LD2742AA-3	Personal decontamination unit	B	0728	1641	1000	100	0	< 0.01
LD2742AA-4	Western site boundary	B	0730	1642	1000	100	0	< 0.01
LD2742AA-5	Southern site boundary	B	0731	1643	1000	100	0	< 0.01

L&D Approved Counter		L&D Approved Signatory
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<p>Page 1 of 1</p>		

### AIRBORNE ASBESTOS FIBRE ESTIMATION TEST REPORT


<b>Job Reference:</b> LD2741AA	<b>Address:</b> 1/6 Dacre Street, Mitchell ACT 2911
<b>Client Name:</b> Shaw Building Group	
<b>Asbestos Removalist:</b> Empire Contracting	<b>Lab Manager:</b> [REDACTED]
<b>Site Location:</b> 56 Belconnen Way, Page	<b>Email:</b> admin@landd.com.au
<b>Description of Works:</b> Background air monitoring during internal strip and environmental clean	

<b>Sampling Date:</b> 27/09/2017	<b>Sampled by:</b> [REDACTED]	<b>Analysis Date:</b> 27/09/2017	<b>Report issue Date:</b> 27/09/2017
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Field blank for week commencing 25/09/2017 with reference number FBKL25092017 returned a count of 0 fibres.

**Test Specifications:** NOHSC: Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003 (2005)] and methods identified in Section B of the L & D Laboratory Manual  
 Samples taken from the direct flow of negative air units are reported as a fibre count only.  
 The NOHSC: 3003 (2005) recommended Control Level for all forms of asbestos is 0.01 fibres/mL.  
 Safe Work Australia's recommended Exposure Standard for all forms of asbestos is 0.1 fibres/mL  
 B = Background monitoring, C = Clearance monitoring, E = Exposure monitoring  
**Accredited for compliance with ISO / IEC 17025.**

Sample Reference	Sample Location	Monitoring Type	Time on	Time off	Ave. flow rate (mL/min)	Fields Counted	Fibres Counted	Airborne fibre conc. (fibres/ml)
LD2742AA-6	Eastern site boundary	B	0708	1626	1000	100	0	< 0.01
LD2742AA-7	Northern site boundary – on top of shed	B	0709	1627	1000	100	0	< 0.01
LD2742AA-8	Personal decontamination unit	B	0710	1628	1000	100	0	< 0.01
LD2742AA-9	Western site boundary	B	0712	1630	1000	100	0	< 0.01
LD2742AA-10	Southern site boundary	B	0714	1631	1000	100	0	< 0.01

L&D Approved Counter	 <small>WORLD RECOGNISED ACCREDITATION</small> <b>Accreditation no: 19512</b>	L&D Approved Signatory
[REDACTED]	<b>Page 1 of 1</b>	[REDACTED]

*Appendix C*  
*Site Plan*






**SITE DETAILS**

56 Belconnen Way

Page

ACT 2614

**KEY**

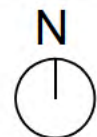
-  SOIL DISTURBANCE WORK AREA
-  FOOTPRINT OF DEMOLISHED LOOSE-FILL AFFECTED STRUCTURE
-  APPROXIMATE TRUCKING AREA AND EXCAVATOR DECONT/TRANSITAREA
-  DECON UNIT LOCATIONS
-  SITE OUTLINE

The demolition work area is defined as the area comprising the original structure footprint of the affected premises, the decontamination unit and asbestos waste skip and truck handling area, and the soil disturbance work area of the demolition contractor.

**LANCASTER AND DICKENSON CONSULTING**  
UNIT 1, 6 DACRE ST  
MITCHELL ACT 2911  
PHONE: (02) 6280 0203  
Web: [www.landd.com.au](http://www.landd.com.au)  
Email: [admin@landd.com.au](mailto:admin@landd.com.au)

**CLIENT**


Shaw Building Group



**DRAWING TITLE**

POST DEMOLITION SITE OUTLINE

Revision: 0

Drawn by: 

Date created: 01/11/2017

Checked by: 



## **Loose Fill Asbestos Site Soil Validation Report**

WEETANGERA Block # 5, Section # 23,  
51 Springvale Drive, Weetangera ACT 2614

**Prepared by:** OCTIEF Pty Ltd

**For**

**ACT Asbestos Response Taskforce**

### **Introduction**

This report contains the results of an investigation and remediation of asbestos fibres in soil of the demolition work area of a property which is a registered loose fill asbestos affected property.

The Australian Capital Territory ('Territory') has acquired a number of properties affected with loose fill asbestos insulation (comprising mainly amosite and some crocidolite asbestos) and is carrying out remediation of the demolition work area of the properties to ensure that the land is suitable for future residential reuse.

We were engaged by the Territory to provide sampling to validate the remediation of asbestos fibres in soil within the demolition work area for the sole purpose of assisting the Territory with its pre-development investigations in land identified for release for future residential reuse following completion of preliminary works by others, namely:

- . demolition of the house by a principal contractor, including a scrape of affected soil;
- . clearance of the site as free of visible asbestos by a licensed asbestos assessor; and
- . definition of the demolition work area by a licensed asbestos assessor.

The demolition work area is the area to which the asbestos removal clearance certificate applies and is defined by the licensed asbestos assessor. It generally comprises the original pre-demolition structure footprint of the affected premises, the decontamination unit and asbestos waste skip handling area, and the soil disturbance work area of the demolition contractor. It excludes the remainder of the property including earthworks outside of the demolition work area where other non-affected structures have been removed or landscaping work carried out. The licensed asbestos assessor prepared a simple plan of the demolition work area for later sampling of soil by Joseph McNeill under the guidance of [REDACTED] Licensed Asbestos Assessor, license no. [REDACTED] the OCTIEF Pty Ltd soil validator.

Prior to sampling of soil in the demolition work area (refer to the methodology used for the sampling of soils described below), [REDACTED] of OCTIEF Pty Ltd met with the principal contractor [REDACTED] (AGH Demolition & Asbestos Removal) who identified the extent of the demolition work area (as defined by the licensed asbestos assessor). The confirmed demolition work area for soil sampling is illustrated in Attachment 2.

The scope of work was performed solely for the Territory and specifically targeted loose fill asbestos insulation (comprising mainly amosite and some crocidolite fibres). Any other forms of contaminants on site (e.g. lead, bonded asbestos) were not assessed. This report (including the conclusions and recommendations it contains) is prepared solely for use by the Territory and may not be used or relied upon by any other party. Any other party must make its own inquiries and obtain independent advice.

We have assumed the accuracy and completeness of all information provided to it by the principal contractor and licensed asbestos assessor, and the integrity of the clearance certificate provided as Attachment 4.

The asbestos fibre in soil investigation was done in accordance with the Asbestos Response Taskforce Information sheet - Soil Validation Process (dated 10 November 2015), the ACT Government-endorsed *National Environment Protection (Assessment of Site Contamination) Measure 1999 (as amended 2013)* (the NEPM ASC) and the 'Guidelines for the Assessment, Remediation and Management of Asbestos- Contaminated Sites in Western Australia (May 2009)' (the WA Guidelines).

The investigation was undertaken after all visible loose fill asbestos and any other visible asbestos containing materials had been removed from the demolition work area, including a scrape of affected soil from the demolition work area, and a post demolition asbestos removal clearance certificate was issued by licensed asbestos assessor [REDACTED] of JMB Environmental Consulting Pty Ltd ([REDACTED]).

### **Site Identification and Soil Condition of Demolition Work Area**

Soil sampling was conducted at the demolished dwelling located at 51 Springvale Drive, Weetangera. At the time of inspection, a free standing garage was identified towards the south-eastern boundary of the site, with some foliage present around road entrance. The approximate size of the block and demolition work area was 979m<sup>2</sup> and 646m<sup>2</sup> respectively.

Prior to soil sampling, the soil at the site demolition work area was noted to be silt and clay. The soil was moist during sampling.

### **Site Demolition Work Area and Sampling Plan**

An initial site walkover was conducted to confirm the area outlined in the demolition work area provided by the licenced assessor was sufficient to contain all soil validation sampling points required. The area sufficiently incorporated the demolition disturbance area, the house foot print and the decontamination areas and equipment. No additional areas appeared to be disturbed at the time inspection.

Soil validation sampling points in relation to the demolition work area are provided below in Figure 1.



## Soil Sampling Methodology At Demolition Work Area

We attended the site on 18<sup>th</sup> of April 2017 after the principal contractor confirmed the completion of demolition work and site clearance by the licensed asbestos assessor.

Soil sampling was conducted in accordance with the WA Guidelines, using twice the minimum density in Appendix A of WA Guidelines. Twelve (12) samples were taken from across the footprint of the demolished dwelling, as well as waste/decontamination areas.

## Soil Validation Results

The following soil validation sample results were returned from the NATA accredited laboratory, with the laboratory certificate provided at Attachment 1.

Sample No	Result/Asbestos Fibre Type	Comments/Sample Details
4904-S01	No asbestos detected Organic fibres	Sample collected from the mineral decontamination. No further remediation required.
4904-S02	No asbestos detected Organic fibres	Sample collected from the personal decontamination area. No further remediation required.
4904-S03	No asbestos detected Organic fibres	Sample collected from the waste bin. No further remediation required.
4904-S04	No asbestos detected Organic fibres	Sample collected from the northern footprint of the demolition area. No further remediation required.
4904-S05	No asbestos detected Organic fibres	Sample collected from the western centre of the housing footprint. No further remediation required.
4904-S06	No asbestos detected Organic fibres	Sample collected from the southern footprint of the demolition area. No further remediation required.
4904-S07	No asbestos detected Organic fibres	Sample collected from the eastern centre of the housing footprint. No further remediation required.
4904-S08	No asbestos detected Organic fibres	Sample collected from the southern corner of the housing footprint. No further remediation required.
4904-S09	No asbestos detected Organic fibres	Sample collected from the northern corner of the housing footprint. No further remediation required.
4904-S10	No asbestos detected Organic fibres	Sample collected from the negative air unit (centre). No further remediation required.
4904-S11	No asbestos detected Organic fibres	Sample collected from the south-eastern corner of the housing footprint. No further remediation required.
4904-S12	No asbestos detected Organic fibres	Sample collected from the negative air unit (N-E corner). No further remediation required.

## Analytical Procedures

Asbestos in soil analysis was carried out in accordance with the NEPM ASC and the 'Australian Standard for the Qualitative Identification of Asbestos in Bulk Samples' (AS4964-2004).

## Hot Spot Treatment

All twelve samples returned a **negative** result for asbestos and as such no hotspot treatment was undertaken or required.


## Recommendation for Residential Reuse

The asbestos in soil investigation and remediation work to address potential impact of asbestos fibres in the demolition work area of a former house affected by loose fill asbestos at 51 Springvale Drive, Weetangera has been completed as detailed in this report, in accordance with the NEPM ASC and the WA Guidelines. On that basis, I recommend to the Territory that the demolition work area of this property is suitable for residential reuse with respect to asbestos fibres.

### For and on behalf of OCTIEF Pty Ltd:



  
Australian Capital Territory

Licensed Asbestos Assessor Licence Number: 

Date: 24<sup>th</sup> of April 2017

## **Attachment 1 – Laboratory Certificate of Analysis**

## Asbestos Soil Sample Analysis Report Certificate No WA1704211012

<b>Client:</b>	Procurement and Capital Works	<b>Sampled By:</b>	
<b>Client Contact:</b>	Ben McDuff	<b># of Samples Submitted:</b>	12
<b>Telephone:</b>	02 6205 9920	<b>Sampling Date:</b>	18/04/2017
<b>Email:</b>	<a href="mailto:Ben.McDuff@act.gov.au">Ben.McDuff@act.gov.au</a>	<b>Date Received:</b>	19/04/2017
<b>Project:</b>	00004904	<b>Identification Date:</b>	21/04/2017
<b>Site Location:</b>	51 Springvale Drive, Weetangera ACT	<b>Issue Date:</b>	21/04/2017

**Test Methodology:** OCTIEF laboratory procedures and methods used for the identification and quantification of asbestos in soils are consistent with AS4964-2004 and the requirements of the NEPM 2013 Assessment of Site Contamination, and in accordance with In-House Procedures QP-930-001 and QP-931-001.

### Acronyms

CHR	Chrysotile (white asbestos) fibres detected	ORG	Organic fibres detected
AMO	Amosite (brown / grey asbestos) fibres detected	SMF	Synthetic mineral fibres detected
CRO	Crocidolite (blue asbestos) fibres detected	UMF	Unidentified mineral fibres detected
ACM	Asbestos containing material	NAD	No Asbestos Detected
AF	Asbestos fines	FA	Fibrous asbestos

### Notes

Detection limit (AS 4964) – 0.1 g/kg. LOR for asbestos quantification for AF and FA (NEPM) is 0.001% (Non NATA)

The results contained within this report relate only to the sample(s) submitted for analysis and OCTIEF accepts no responsibility for the collection, packaging and transportation of sample submitted by external parties. Sample descriptions, sizes and weights are approximate only. NATA does not accredit sampling.

Asbestos weights and percentages are not covered under the Scope of NATA Accreditation therefore 'NATA accreditation does not cover the performance of this service'. Weights of Asbestos are based on extracted bulk asbestos, fibre bundles, and/or ACM and do not include respirable fibres (if present). Percentages for Asbestos content in ACM and soil density are based on the NEPM 2013 default values. All numerical results under this method are approximate and should be used as a guide only.

Trace Asbestos Detected means the results can be interpreted as containing detectable 'respirable' asbestos fibres as per AS 4964 (LOR 5 fibres).



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 NATA accreditation number: 15172  
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**Table 1 - Results of sample examination using polarised light microscopy (PLM) including Dispersion Staining**

Qualitative Results (NATA)					Quantitative Results (non NATA)						
AS 4964 – 2004 Identification of Asbestos in Bulk Samples					National Environment Protection (Assessment of Site Contamination) Measure (2013)						
Sample ID	Sample Location	Sample Weight (dry) (g)	Asbestos Detected	Asbestos Fibre Type	Sample Weight (dry) (kg)	AF / FA (2 - 7mm)		AF / FA (<2mm)			Trace Asbestos Detected
						Weight of AF/FA (g)	AF/FA (as 100% Asbestos in AF/FA) (%)	Sub-sample Weight (g)	Weight of AF/FA (g)	AF / FA (as 100% asbestos in AF/FA) (%)	
4904 S01	Mineral Decontamination	753	No	NAD-ORG	0.753	0.0000	<0.001	101.00	0.0000	<0.001	No
4904 S02	Personal decontamination area	740	No	NAD-ORG	0.74	0.0000	<0.001	100.00	0.0000	<0.001	No
4904 S03	Waste bin	651	No	NAD-ORG	0.651	0.0000	<0.001	100.00	0.0000	<0.001	No
4904 S04	Northern footprint of demolition area	608	No	NAD-ORG	0.608	0.0000	<0.001	100.00	0.0000	<0.001	No
4904 S05	Western centre of housing footprint	769	No	NAD-ORG	0.769	0.0000	<0.001	100.00	0.0000	<0.001	No

**Notes**

Detection limit (AS 4964) – 0.1 g/kg. LOR for asbestos quantification for AF and FA (NEPM) is 0.001% (Non NATA)

The results contained within this report relate only to the sample(s) submitted for analysis and OCTIEF accepts no responsibility for the collection, packaging and transportation of sample submitted by external parties. Sample descriptions, sizes and weights are approximate only. NATA does not accredit sampling.

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Trace Asbestos Detected means the results can be interpreted as containing detectable 'respirable' asbestos fibres as per AS 4964 (LOR 5 fibres).



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 NATA accreditation number: 15172  
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Qualitative Results (NATA)					Quantitative Results (non NATA)						
AS 4964 – 2004 Identification of Asbestos in Bulk Samples					National Environment Protection (Assessment of Site Contamination) Measure (2013)						
Sample ID	Sample Location	Sample Weight (dry) (g)	Asbestos Detected	Asbestos Fibre Type	Sample Weight (dry) (kg)	AF / FA (2 - 7mm)		AF / FA (<2mm)			Trace Asbestos Detected
						Weight of AF/FA (g)	AF/FA (as 100% Asbestos in AF/FA) (%)	Sub-sample Weight (g)	Weight of AF/FA (g)	AF / FA (as 100% asbestos in AF/FA) (%)	
4904 S06	Southern footprint of demolition area	794	No	NAD-ORG	0.794	0.0000	<0.001	100.00	0.0000	<0.001	No
4904 S07	Eastern centre of housing footprint	680	No	NAD-ORG	0.68	0.0000	<0.001	101.00	0.0000	<0.001	No
4904 S08	Southern corner of housing footprint	754	No	NAD-ORG	0.754	0.0000	<0.001	101.00	0.0000	<0.001	No
4904 S09	Northern corner of housing footprint	732	No	NAD-ORG	0.732	0.0000	<0.001	101.00	0.0000	<0.001	No
4904 S10	Negative air unit (centre)	680	No	NAD-ORG	0.68	0.0000	<0.001	100.00	0.0000	<0.001	No

**Notes**

Detection limit (AS 4964) – 0.1 g/kg. LOR for asbestos quantification for AF and FA (NEPM) is 0.001% (Non NATA)

The results contained within this report relate only to the sample(s) submitted for analysis and OCTIEF accepts no responsibility for the collection, packaging and transportation of sample submitted by external parties. Sample descriptions, sizes and weights are approximate only. NATA does not accredit sampling.

Asbestos weights and percentages are not covered under the Scope of NATA Accreditation therefore 'NATA accreditation does not cover the performance of this service'. Weights of Asbestos are based on extracted bulk asbestos, fibre bundles, and/or ACM and do not include respirable fibres (if present). Percentages for Asbestos content in ACM and soil density are based on the NEPM 2013 default values. All numerical results under this method are approximate and should be used as a guide only.

Trace Asbestos Detected means the results can be interpreted as containing detectable 'respirable' asbestos fibres as per AS 4964 (LOR 5 fibres).

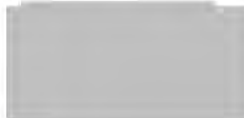


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Qualitative Results (NATA)					Quantitative Results (non NATA)						
AS 4964 – 2004 Identification of Asbestos in Bulk Samples					National Environment Protection (Assessment of Site Contamination) Measure (2013)						
Sample ID	Sample Location	Sample Weight (dry) (g)	Asbestos Detected	Asbestos Fibre Type	Sample Weight (dry) (kg)	AF / FA (2 - 7mm)		AF / FA (<2mm)			Trace Asbestos Detected
						Weight of AF/FA (g)	AF/FA (as 100% Asbestos in AF/FA) (%)	Sub-sample Weight (g)	Weight of AF/FA (g)	AF / FA (as 100% asbestos in AF/FA) (%)	
4904 S11	South eastern corner of housing footprint	711	No	NAD-ORG	0.711	0.0000	<0.001	100.00	0.0000	<0.001	No
4904 S12	Negative air unit (north east corner)	781	No	NAD-ORG	0.781	0.0000	<0.001	101.00	0.0000	<0.001	No

*The NATA Accreditation does not cover the sampling performance*

Approved Identifier:



Report Approved By:



**Notes**

Detection limit (AS 4964) – 0.1 g/kg. LOR for asbestos quantification for AF and FA (NEPM) is 0.001% (Non NATA)

The results contained within this report relate only to the sample(s) submitted for analysis and OCTIEF accepts no responsibility for the collection, packaging and transportation of sample submitted by external parties. Sample descriptions, sizes and weights are approximate only. NATA does not accredit sampling.

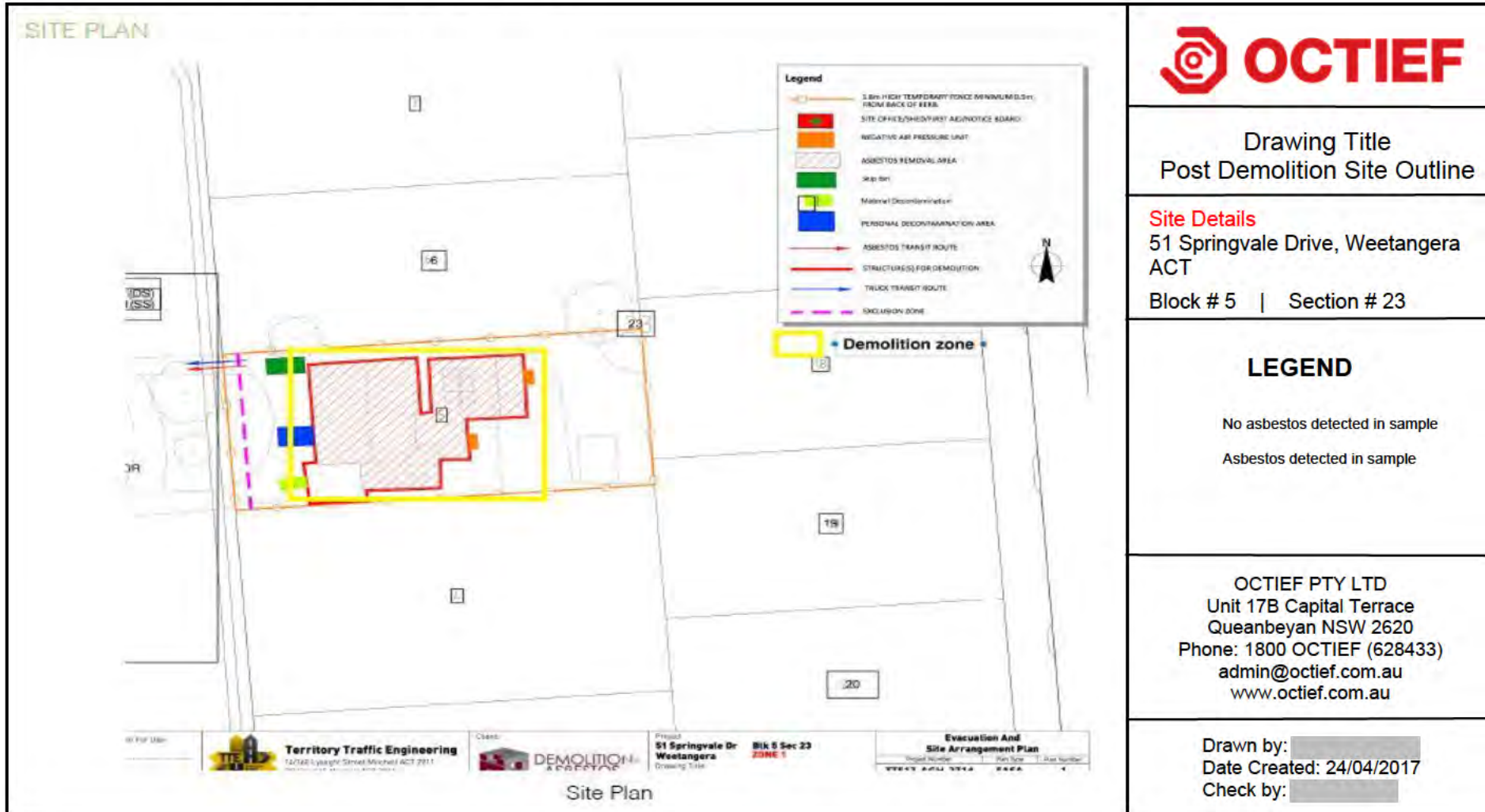
Asbestos weights and percentages are not covered under the Scope of NATA Accreditation therefore 'NATA accreditation does not cover the performance of this service'. Weights of Asbestos are based on extracted bulk asbestos, fibre bundles, and/or ACM and do not include respirable fibres (if present). Percentages for Asbestos content in ACM and soil density are based on the NEPM 2013 default values. All numerical results under this method are approximate and should be used as a guide only.

Trace Asbestos Detected means the results can be interpreted as containing detectable 'respirable' asbestos fibres as per AS 4964 (LOR 5 fibres).



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**Attachment 2 – Confirmed Demolition Work Area**



### Attachment 3 – Site Photographs



Figure 1 Site overview of demolition footprint.



Figure 2 Site overview of demolition footprint.



Figure 3 Soil validation sample location/s (from the left) view from the south-eastern boundary corner to the northern boundary: S-01, S-02, S-03, S-05 and S-04.



Figure 4 Soil validation sample location/s (from the left) view from the north-western boundary corner to the south-eastern boundary: S-11, S-10, S-03, S-05 and S-06.



Figure 5 Soil validation sample location/s (from the left) view from the northern elevation of the demolition zone to the southern boundary: S-07, S-04, S-06 and S-05.



Figure 6 Soil validation sample location/s (from the left) view from S-06 to the northern boundary corner: S-09, S-07, S-06, S-10, S-11 and S-12.



Figure 7 Soil validation sample location/s (from the left) view from S-11 to the northern boundary: S-04, S-09, S-11 and S-12.



Figure 8 Soil validation sample location/s (from the left) view from S-12 to the road entrance: S-10, S-12 and S-09.

## **Attachment 4 – Clearance Certificate**

## PROJECT DETAILS

JOB NUMBER	KEF370	CLEARANCE DATE	7/4/17
CLIENT	AGH Demolition & Asbestos Removal	REPORT DATE	7/4/17
CONTACT NAME	[REDACTED]	CONTACT NUMBER	[REDACTED]
SITE ADDRESS	51 Springvale Drive, Weetangera ACT 2614		
SCOPE OF WORKS	Demolition and removal of remediated loose fill insulation house and impacted soil.		
SCOPE OF CLEARANCE	A thorough visual inspection was carried out of the removal and surrounding areas		
ASBESTOS CONTRACTOR	AGH Demolition & Asbestos Removal	SUPERVISOR	[REDACTED]
ASBESTOS ASSESSOR	[REDACTED]	LICENCE NUMBER	[REDACTED]
LEGISLATION	Asbestos removal clearance certificate issued under regulations 473 & 474 of the Work Health Safety Regulation 2011		

## VISUAL CLEARANCE

	YES	NO	N/A
Did inspection of the specific work area detailed above find no visible asbestos remaining as a result of the demolition work carried out?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Was raking of the soil carried out within the demolition zone and no visible asbestos material as a result of the remediation work carried out?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Did the inspection cover the whole site?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Can the site be safely accessed and soil validation commence?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is a site plan attached showing the demolition zone?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Have site photographs been included in this report?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

## CONCLUSION

A thorough visual inspection and raking of the soil within the demolition zone was conducted and found **no visible asbestos material** from demolition work in the area or in the vicinity of the area where the work was carried out.

This area has been cleared for soil validation and the site can be handed over on successful completion of the soil validation.

**Note:** Asbestos material may be present within the soil at depth or outside the demolition zone. The site infrastructure on the block associated with the property, including the concrete paths/driveways, retaining walls, concrete slabs and subterranean pipework remain onsite. See attached site plan showing the demolition zone.

Kind Regards,

[REDACTED]

[REDACTED]

**Hygienist**

PHOTOS



Driveway outside the demolition zone



Cleared area of the demolition zone



Cleared area of the demolition zone



Cleared area of the demolition zone

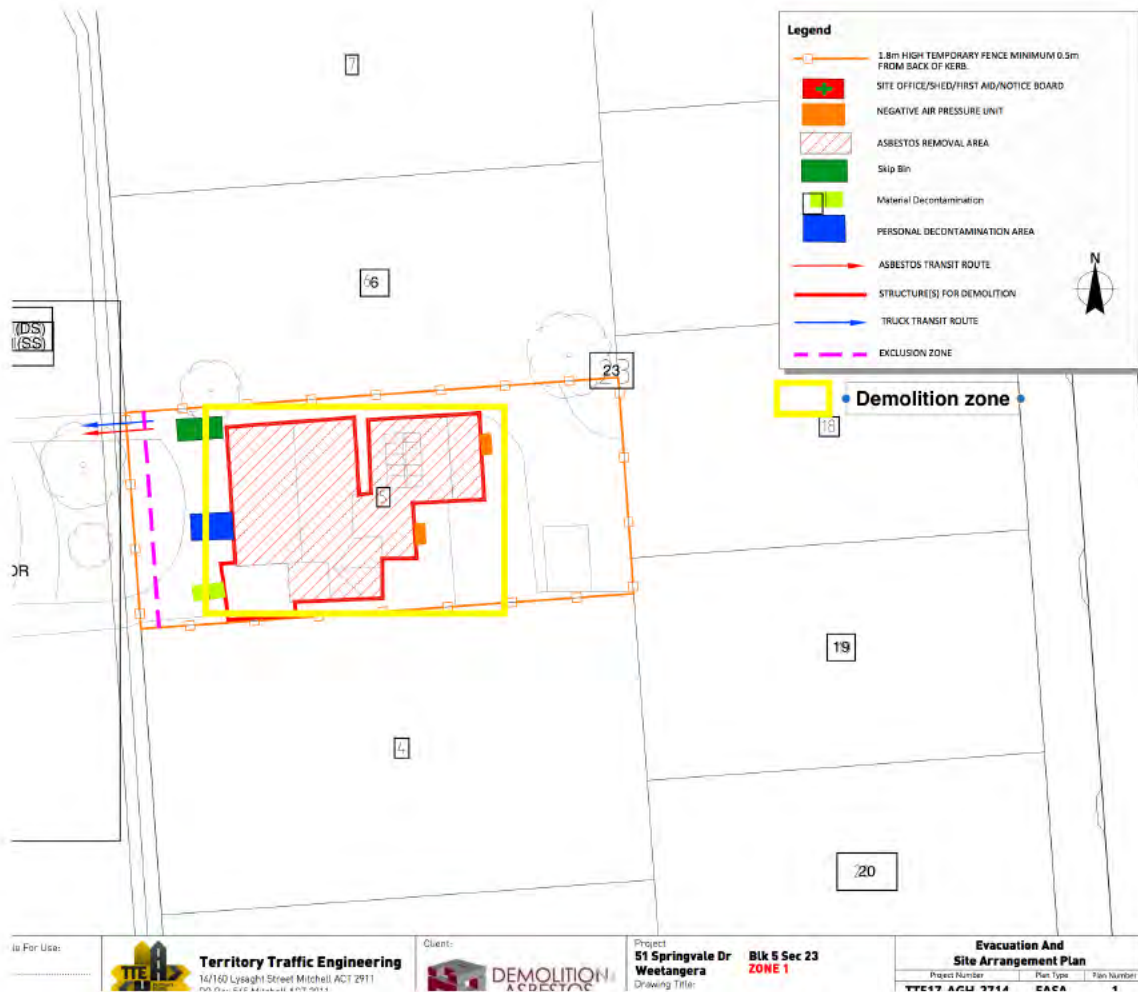


Cleared area of the demolition zone



Clothes line outside the demolition zone

SITE PLAN



<b>Territory Traffic Engineering</b> 14/160 Lysaght Street Mitchell ACT 2911 02 6222 2222	<b>DEMOLITION ARCHITECTS</b>	Project: <b>51 Springvale Dr Weetangera</b> Drawing Title: <b>Blk 5 Sec 23 ZONE 1</b>	<b>Evacuation And Site Arrangement Plan</b>	
			Project Number: <b>TYE17 ACU 2214</b>	Plan Type: <b>EACA</b>

Site Plan



## **Loose Fill Asbestos Site Soil Validation Report**

**Hackett, Section 22, Block 24**

**27 Rivett Street, Hackett ACT**

**Prepared by: Hazmat Plus**

**For**

**ACT Asbestos Response Taskforce**

### **Introduction**

This report contains the results of an investigation and remediation of asbestos fibres in soil of the demolition work area of a property, which is a registered loose fill asbestos affected property.

The Australian Capital Territory ('Territory) has acquired a number of properties affected with loose fill asbestos insulation (comprising mainly amosite and some crocidolite asbestos) and is carrying out remediation of the demolition work area of the properties to ensure that the land is suitable for future residential reuse.

We were engaged by the Territory to provide sampling to validate the remediation of asbestos fibres in soil within the demolition work area for the sole purpose of assisting the Territory with its pre-development investigations in land identified for release for future residential reuse following completion of preliminary works by others, namely:

- . demolition of the house by a principal contractor, including a scrape of affected soil;
- . clearance of the site as free of visible asbestos by a licensed asbestos assessor; and
- . definition of the demolition work area by a licensed asbestos assessor.

The demolition work area is the area to which the asbestos removal clearance certificate applies and is defined by the licensed asbestos assessor. It generally comprises the original pre-demolition structure footprint of the affected premises, the decontamination unit and asbestos waste skip handling area, and the soil disturbance work area of the demolition contractor. It excludes the remainder of the property including earthworks outside of the demolition work area where other non-affected structures have been removed or landscaping work carried out. The licensed asbestos assessor prepared a simple plan of the demolition work area for later sampling of soil by the Hazmat Plus soil validator.

Prior to sampling of soil in the demolition work area (refer to the methodology used for the sampling of soils described below), Hazmat Plus met on the site with the principal contractor Capcorp, who identified the extent of the demolition work area (as defined by the licensed asbestos assessor). The confirmed demolition work area for soil sampling is illustrated in Attachment 2.

The scope of work was performed solely for the Territory and specifically targeted loose fill asbestos insulation (comprising mainly amosite and some crocidolite fibres). Any other forms of contaminants on site (e.g. lead, bonded asbestos) were not assessed. This report (including the conclusions and recommendations it contains) is prepared solely for use by the Territory and may not be used or relied upon by any other party. Any other party must make its own inquiries and obtain independent advice.

We have assumed the accuracy and completeness of all information provided to it by the principal contractor and licensed asbestos assessor, and the integrity of the clearance certificate provided as Attachment 4.

The asbestos fibre in soil investigation was done in accordance with the Asbestos Response Taskforce Information sheet - Soil Validation Process (dated 10 November 2015), the ACT Government-endorsed *National Environment Protection (Assessment of Site Contamination) Measure 1999 (as amended 2013)* (the NEPM ASC) and the 'Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia (May 2009)' (the WA Guidelines).

The investigation was undertaken after all visible loose fill asbestos and any other visible asbestos containing materials had been removed from the demolition work area, including a scrape of affected soil from the demolition work area, and a post demolition asbestos removal clearance certificate was issued by licensed asbestos assessor, ( ), of WSP on 6 September 2017.

### Site Identification and Soil Condition of Demolition Work Area

The site at Hackett, Section 22, Block 24 is situated on the north-western side of Rivett Street, Hackett, which in relation to the site runs south-west to the north east. The site is 715m<sup>2</sup> in dimension with the demolition work area approx. 218m<sup>2</sup> in dimension. The front and rear lawns and trees were retained as well as a garage to the rear. The soil was a red silt to sandy silt with gravels. Refer to Attachment 3 for photographs of the site.

### Site Demolition Work Area and Sampling Plan

Please refer to Attachment 2 for the Site Plan showing locations of soil validation samples. Permission from WSP was granted for use of their site plan.

### Soil Sampling Methodology At Demolition Work Area

Hazmat Plus attended the site on 7 September 2017 after the principal contractor confirmed the completion of demolition work and site clearance by the licensed asbestos assessor.

A total of ten (10) soil validation samples were collected across the site. Refer to Attachment 1 for the Laboratory Certificate of Analysis.

Location	Sample Rate	Analysis
Demolition work area	Twice the minimum density as per table in Appendix A of WA Guidelines#	Amosite, crocidolite, chrysotile fibres

## Soil Validation Results

The following soil validation sample results were returned from the NATA accredited laboratory, with the laboratory certificate provided at Attachment 1.

Sample No./Grid location	Result/asbestos fibre type	Comments
H17094/43/SV01 01	No asbestos detected	No action required
H17094/43/SV02 02	No asbestos detected	No action required
H17094/43/SV03 03	No asbestos detected	No action required
H17094/43/SV04 04	No asbestos detected	No action required
H17094/43/SV05 05	No asbestos detected	No action required
H17094/43/SV06 06	No asbestos detected	No action required
H17094/43/SV07 07	No asbestos detected	No action required
H17094/43/SV08 08	No asbestos detected	No action required
H17094/43/SV09 09	No asbestos detected	No action required
H17094/43/SV10 10	No asbestos detected	No action required

## Analytical Procedures

Asbestos in soil analysis was carried out in accordance with the WA Guidelines and the 'Australian Standard for the Qualitative Identification of Asbestos in Bulk Samples' (AS4964-2004).

## Hot Spot Treatment


No hotspots were identified by the testing, as such no hotspot treatment was required.

## **Recommendation for Residential Reuse**

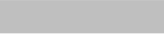
The asbestos in soil investigation and remediation work to address potential impact of asbestos fibres in the demolition work area of a former house affected by loose fill asbestos at Hackett, Section 22, Block 24 (27 Rivett Street, Hackett) has been completed as detailed in this report, in accordance with the NEPM ASC and the WA Guidelines. On that basis, I recommend to the Territory that the demolition work area of this property is currently suitable for residential reuse with respect to asbestos fibres.

**For and on behalf of Hazmat Plus:**



 BEnvSc(Mgt) MEIANZ AFOH CPSS

Principal Environmental Scientist

Licensed Asbestos Assessor 

Date: 14/09/2017

### **Attachments**

- 1) **Laboratory Certificate of Analysis**
- 2) **Demolition work area and sample plan**
- 3) **Photographs**
- 4) **Final Clearance Certificate**

## **Attachment 1 - Laboratory Certificate of Analysis**

# CHAIN OF CUSTODY FORM



Client Details	
Client: Hazmat Plus	Sample Date: 07.09.17 Dispatch Date: 08.09.17
Client Project ID: H17094/43 27 Rivett Street, Hackett ACT	Number of Samples: 10
Sampled By: [Redacted]	Phone/mobile Number: [Redacted]
Requested Turn Around Time (Standard/24hour/48hours): 3 days	Return Results via Email: to: [Redacted] cc: [Redacted]
Comments/Special Instructions: Be aware of potential for loose Amosite fibres	

Sample Details			
SWE Sample ID	Client Sample No./Id	Sample Description	Requested Analysis
	H17094/43-SV01	Soil	Asbestos
	H17094/43-SV02	Soil	Asbestos
	H17094/43-SV03	Soil	Asbestos
	H17094/43-SV04	Soil	Asbestos
	H17094/43-SV05	Soil	Asbestos
	H17094/43-SV06	Soil	Asbestos
	H17094/43-SV07	Soil	Asbestos
	H17094/43-SV08	Soil	Asbestos
	H17094/43-SV09	Soil	Asbestos
	H17094/43-SV10	Soil	Asbestos

**Notes:**

- A copy of this Chain of Custody will be returned to sender's nominated email upon receipt of samples.
- Each sample is to be in a sealed plastic bag marked with sample number/id, client name/company and date of sample.
- The samples and two copies of the chain of custody will be sealed in a second plastic bag for delivery to the SWE laboratory, Suite 7/103 Majors Bay Road, Concord NSW 2137 (02 8757 3911).

**SWE Laboratory Use Only**

Lab Job No S105904-289 Date Received 11/9/17 Received By [Redacted]  
 Report Due Date 14/9/17 Date Report 14/9/17 Issued By [Redacted]

**Chain of Custody**

Safe Work and Environments Pty Ltd  
 7/103 Majors Bay Road, Concord, NSW 2137  
 Phone: 02 8757 3611 Fax: 02 8757 3611  
 Email: enquiries@swe.com.au

14/09/2017

**Attention:** [REDACTED]  
**Company:** Hazmat Plus  
**Fax/email:** [REDACTED]  
**Address:** PO Box 5931 Manly QLD 4179

SWE Reference: S105904.3289  
 Client Reference: H17094/43  
 Date of Receipt: 11/09/2017  
 NATA Accreditation No: **17092**

### Asbestos Identification

This report presents the results of 10 samples, received at SWE Concord office on 11 September 2017 for analysis for asbestos.

- 1. Introduction:** Ten samples collected by client were examined and analysed as received for the presence of asbestos.
- 2. Methods:** The samples were examined under a Stereo Microscope and selected fibres were analysed by Polarized Light Microscopy in conjunction with Dispersion Staining.
- 3. Results:**

SWE Ref.	DATE ANALYSED	SAMPLE REFERENCE AND DESCRIPTION	DIMENSIONS (g)	ASBESTOS DETECTED
S105904.3289-A01	14/09/2017	H17094/43-SV01 - Brown fined-grained soil & rocks	477 g	No Asbestos Detected at the reporting limit of 0.1g/kg. No Trace Asbestos Detected.  Organic Fibres Detected.
S105904.3289-A02	14/09/2017	H17094/43-SV02 - Brown fined-grained soil & rocks	641 g	No Asbestos Detected at the reporting limit of 0.1g/kg. No Trace Asbestos Detected.  Organic Fibres Detected.
S105904.3289-A03	14/09/2017	H17094/43-SV03 - Brown fined-grained soil & rocks	566 g	No Asbestos Detected at the reporting limit of 0.1g/kg. No Trace Asbestos Detected.  Organic Fibres Detected.
S105904.3289-A04	14/09/2017	H17094/43-SV04 - Brown fined-grained soil & rocks	68 g	No Asbestos Detected at the reporting limit of 0.1g/kg. No Trace Asbestos Detected.  Organic Fibres Detected.
S105904.3289-A05	14/09/2017	H17094/43-SV05 - Brown fined-grained soil & rocks	564 g	No Asbestos Detected at the reporting limit of 0.1g/kg. No Trace Asbestos Detected.  Organic Fibres Detected.
S105904.3289-A06	14/09/2017	H17094/43-SV06 - Brown fined-grained soil & rocks	554 g	No Asbestos Detected at the reporting limit of 0.1g/kg. No Trace Asbestos Detected.  Organic Fibres Detected.

S105904.3289-FID Report

SWE Ref.	DATE ANALYSED	SAMPLE REFERENCE AND DESCRIPTION	DIMENSIONS (g)	ASBESTOS DETECTED
S105904.3289-A07	14/09/2017	H17094/43-SV07 - Brown fined-grained soil & rocks	610 g	No Asbestos Detected at the reporting limit of 0.1g/kg. No Trace Asbestos Detected.  Organic Fibres Detected.
S105904.3289-A08	14/09/2017	H17094/43-SV08 - Brown fined-grained soil & rocks	710 g	No Asbestos Detected at the reporting limit of 0.1g/kg. No Trace Asbestos Detected.  Organic Fibres Detected.
S105904.3289-A09	14/09/2017	H17094/43-SV09 - Brown fined-grained soil & rocks	590 g	No Asbestos Detected at the reporting limit of 0.1g/kg. No Trace Asbestos Detected.  Organic Fibres Detected.
S105904.3289-A10	14/09/2017	H17094/43-SV10 - Brown fined-grained soil & rocks	727 g	No Asbestos Detected at the reporting limit of 0.1g/kg. No Trace Asbestos Detected.  Organic Fibres Detected.

**Methodology:** Qualitative identification of asbestos type fibres in bulk using Polarised Light Microscope carried out in accordance with AS4964-2004 and SWE's *In-House Method 3 – Fibre Identification*. The collection of the sampling is not covered under the below NATA Accreditation Scope.

**NATA Accreditation Number:** 17092

**NATA Accreditation Scope:** 7.82.31 – Asbestos Fibre Identification  
7.84.31 – Asbestos



Approved Issuer of Reports



Approved Issuer of Reports

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

S105904.3289-FID Report

**Safe Work and Environments Pty Ltd**  
7/103 Majors Bay Road, Concord, NSW 2137  
Phone: 02 87573611 Fax: 02 87573611  
Email: [enquiries@swe.com.au](mailto:enquiries@swe.com.au)

## **Attachment 2 - Demolition Work Area and Sample Plan**

# SITE PLAN

27 RIVETT STREET, HACKETT ACT 2602



PROJECT NO 2258211C  
PACKAGE AB2  
27 RIVETT STREET, HACKETT ACT 2602  
ASBESTOS CLEARANCE CERTIFICATE  
CAPOORP GROUP

WSP  
SEPTEMBER 2017  
PAGE B-2

## Attachment 3 - Photographs

**Photograph 1:** 27 Rivett Street, Hackett view to north showing excavated area with retained garage to the rear of the site.



**Photograph 2:** Closer view of site looking north/north-west. Note the retained driveway on the garage.



**Photograph 3:** View of site facing north-east.



**Photograph 4:** View of site facing east.



## **Attachment 4 – Final Clearance Certificate**

CAPCORP GROUP

**PACKAGE AB2  
27 RIVETT STREET, HACKETT ACT  
2602  
ASBESTOS CLEARANCE CERTIFICATE**

SEPTEMBER 2017

CONFIDENTIAL

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**PACKAGE AB2  
27 RIVETT STREET, HACKETT  
ACT 2602  
ASBESTOS CLEARANCE  
CERTIFICATE**

CAPCORP GROUP

CONFIDENTIAL

PROJECT NO 2259211C  
DATE: SEPTEMBER 2017

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REV	DATE	DETAILS
0	06/09/2017	Original

	NAME	DATE	SIGNATURE
Prepared by:		06/09/2017	
Reviewed by:		06/09/2017	

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CAPCORP GROUP  
CONFIDENTIAL  
PROJECT NO 2259211C OUR REF:  
2259211C\_CAPCORP\_27\_RIVETT\_ST\_HACKETT\_PACKAGE\_AB2\_GROUND\_CLEARANCE\_06092017.DOCX  
SEPTEMBER 2017

# CLEARANCE CERTIFICATE - ASBESTOS REMOVAL

COMPLIANT WITH PART 3.10 OF SAFE WORK AUSTRALIA DOCUMENT: HOW TO SAFELY REMOVE ASBESTOS, CODE OF PRACTICE 2014

AS ENFORCED BY WORKSAFE ACT.

SECTION A - GENERAL DETAILS	
Client details	
Name of client:	Capcorp Group Pty Ltd
Client contact details:	
Asbestos removal work details	
Site address where asbestos removal work is being carried out:	27 Rivett Street, Hackett ACT 2602
Date(s) asbestos removal work carried out:	Monday 4 <sup>th</sup> to Wednesday 6 <sup>th</sup> September 2017
Scope of work (as advised by client/contractor):	Removal of the top 150mm of soil from the residential dwelling footprint to remove potentially asbestos impacted waste which is derived from the demolition of the residential dwelling at 27 Rivett Street, Hackett ACT 2602. The excavator was decontaminated on site.
Details of the specific asbestos removal work area(s):	Ground surfaces of the residential dwelling footprint, external surfaces of the excavator
Type of asbestos containing material removed:	<input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input checked="" type="checkbox"/> Asbestos impacted waste
Name of Demolition Contractor:	Paraco Projects
Licence Details:	N/A

## SECTION B - ASBESTOS IMPACTED WASTE REMOVAL

Date of clearance inspection:	Wednesday 6 <sup>th</sup> September 2017
Evidence of PVA/sealant application:	Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>
The transit route and waste routes are free from any visible asbestos	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>
Limitation of Clearance	WSP Australia visually inspected the demolition works area ground surfaces, and external surfaces of the excavator within the scope of works and determined that the asbestos impacted waste has been removed and the areas cleaned to a satisfactory level. This inspection and clearance certificate is valid for areas which were visually accessible at the time of inspection.
Areas not accessed:	Areas below the ground surface, ground surfaces outside of the demolition works area
Visual inspection satisfactory:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Clearance and/or Control air monitoring conducted:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Results of air monitoring satisfactory:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>

Comments:

Levels of respirable airborne fibres were found to be below the detection limit of <0.01fibres/ml

### SECTION C - CLEARANCE DECLARATION

I declare that:

Based on the above findings the ground surfaces of the demolition work area is considered visually clear of asbestos impacted waste.

### SECTION D - ASSESSORS SIGNATURE

Prepared by:		Date: 06/09/2017	Signature:	
Assessor Number				

### - ATTACHMENT TICK LIST

Certificate of analysis	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA <input type="checkbox"/>
Photographs	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>
Site maps/plans/sketches	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>

### - STANDARD LIMITATIONS OF CLEARANCE INSPECTIONS (NSW/ACT)

In accordance with WHS regulation 2016, Chapter 8, Part 8.7, Clause 473: "A clearance inspection is an inspection of an asbestos removal area after asbestos removal work has been completed to verify that the area is safe for normal use, that: (a) includes a visual inspection, and (b) may include air monitoring".

The surface area and immediate vicinity has been visually determined to be clear of visible asbestos residue as specified for remediation. This clearance certificate is valid for areas which were visually accessible at the time of inspection as detailed in the scope of works.

Inspections are only carried out to the areas detailed to be removed and are conducted where access is available. Specifically no inspection has been carried out to areas that may require further remediation to verify the presence of asbestos. Please note that the visual clearance is limited to the surface of material(s) and/or soil(s) which were safely accessible at the time of inspection.

It should be noted that no inspection can be regarded as absolute and that additional asbestos may be encountered or uncovered upon further inspection, building works, or in particular excavations. The inspection was carried out at the time of the completion of the remediation works and was dependent upon site conditions at that time. WSP Australia accepts no responsibility or liability for the completeness of the removal. Comments above regarding the aspects of the inspection also form limitations. The contractor's responsibilities included:

- Ensuring that work methods and procedures comply with the relevant legislation, codes of practice and industry standards, and undertake work in accordance with technical specifications.
- Employing suitably trained, skilled and competent staff.
- Ensuring that contractors are inducted in safe work procedures for asbestos materials/products.
- Obtaining the necessary approvals from regulatory authorities prior to starting any asbestos removal or maintenance activities.
- Ensuring that all work is conducted in a safe and competent manner.

# APPENDIX A

## PHOTOGRAPHS



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# A1 PHOTOGRAPHS



Photograph 1 – Dwelling footprint ground surfaces, taken from southeast side of the site



Photograph 2 – Dwelling footprint ground surfaces, taken from southwest side of the site



Photograph 3 – Dwelling footprint ground surfaces, taken from northwest side of the site



Photograph 4 – Dwelling footprint ground surfaces, taken from northeast side of the site



Photograph 5 – Excavator mud bucket attachment after decontamination



Photograph 6 – Excavator tracks and blade after decontamination



Photograph 7 – Excavator digging bucket attachment after decontamination



Photograph 8 – Excavator tracks after decontamination

# APPENDIX B





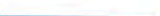

## SITE PLAN



# SITE PLAN

27 RIVETT STREET, HACKETT ACT 2602



- |   |                      |   |                      |   |                               |
|---|----------------------|---|----------------------|---|-------------------------------|
|  | Waste Bin Location   |  | Demolition Work Area |  | Designated Truck Loading Area |
|  | Decontamination Unit |  | House Footprint      |  | Plant Decontamination Area    |