

Report on Hazardous Material Survey - Buildings 10, 11, 12, 13 and 14

Existing Buildings, Closebourne Retirement Living Morpeth Road, Morpeth

Prepared for Lend Lease (Retirement Living)

Project 81251.13 September 2016





Document History

Document details

Project No.	81251.13	Document No.	81251.13.R.003.Rev0					
Document title	Report on Hazardo	ous Material Survey -	Buildings 10, 11, 12, 13 and 14					
	Existing Buildings,	Closebourne Retirer	nent Living					
Site address	Morpeth Road, Mo	Morpeth Road, Morpeth						
Report prepared for	Lend Lease (Retirement Living)							
File name	81251.13.R.003.R	ev0						

Document status and review

Status	Prepared by	Reviewed by	Date issued
DftA	Michael Gawn	Chris Bozinovski	1 September 2016
Revision 0	Michael Gawn	Chris Bozinovski	22 September 2016

Distribution of copies

Status	Electronic	Paper	Issued to
DftA	1	0	Bruce Gould – Lend Lease Retirement Living
Revision 0	1	0	Bruce Gould – Lend Lease Retirement Living

The undersigned, on behalf of Douglas Partners Pty Ltd, confirm that this document and all attached drawings, logs and test results have been checked and reviewed for errors, omissions and inaccuracies.

Signature	Date
Author	22 September 2016
Reviewer	22 September 2016





Executive Summary

Douglas Partners Pty Ltd (DP) conducted a sampling and identification survey (pre-demolition survey) for five existing buildings (Buildings 10 to 14) located within the Closebourne Village, Morpeth Road, Morpeth. The survey was undertaken to facilitate the identification and location of asbestos-containing materials (ACM) and other hazardous materials (Hazmat Survey) to enable their removal prior to proposed demolition works. It involved collecting representative bulk samples from suspected ACM and recording the type, extent and location of these and other hazardous materials throughout the buildings. This type of survey has involved intrusive or destructive inspection techniques in an attempt to locate potential concealed ACM.

From the site survey and laboratory analysis results a Register of ACM and other hazardous materials has been produced with reference to the requirements of the Work Health and Safety Regulation 2011 (NSW) and other relevant legislation.

Asbestos-containing materials were identified or suspected during the survey. No friable ACM were identified in the areas surveyed. Details of the material assessments are located within the register in Appendix A.

The surveyor was unable to gain access to the following areas:

Location	Non-accessed area	Reason
Puildings 10 and 11	Roof void	Confined Space
Buildings 10 and 11	Roof	Height restrictions
	Subfloor zone	Confined space
Buildings 12 to 14	Roof Void	Confined space
	Roof	Height restrictions

All areas where access was not possible must be presumed to contain asbestos until proven otherwise. See also Limitations in Section 6.

The asbestos information in this report is supplied on the understanding that the area surveyed is subject to potential demolition works, and that all identified asbestos and other hazardous materials will be removed prior to, or as part of these works. Any asbestos or other hazardous materials remaining in situ at the conclusion of the project will need to be detailed in the site specific Register and Asbestos Management Plan as required by the Work, Health and Safety Regulation 2011 (NSW).

The client should be made aware of the limitations of a survey being conducted in a destructive manner and is referred to in Section 6 – Limitations. This report should be read in its entirety and may not be reproduced other than in full, except with the prior written approval of DP.



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Report on Hazardous Material Survey - Buildings 10, 11, 12, 13 and 14 Existing Buildings, Closebourne Retirement Living Morpeth Road, Morpeth

1. Introduction

This report presents the results of a hazardous material survey undertaken by Michael Gawn and Paulo Sebastian of Douglas Partners Pty Ltd (DP) on several existing buildings located within the area of the proposed Aged Care Facility at Closebourne Village, Morpeth Road, Morpeth. The survey was undertaken between 15 April 2016 to 25 May 2016. The survey was commissioned in an email dated 1 April 2016 by Bruce Gould of Lend Lease (Retirement Living) and was undertaken in accordance with DP proposal NCL160058 (Rev1) dated 9 March 2016.

The hazardous building materials survey was undertaken on five existing buildings (Buildings 10 to 14) are shown in Figures 1 and 2 below.



Figure 1: Aerial image of site, showing location of buildings subject to survey (sourced from Google Earth)





Figure 2: Aerial image of site, showing location of buildings subject to survey (sourced from Google Earth)

The survey was conducted with reference to current regulations for the evaluation of the nominated buildings for hazardous materials. The assessment was conducted on the basis of the condition of the materials at the time of the survey and the future anticipated activities at the site.

The survey was undertaken to identify and record the type, location and extent of hazardous building materials and involved collecting representative bulk samples from suspected ACM, and potential lead-containing paint systems throughout the building.

A Certificate of Analysis for bulk samples obtained during the survey is included within Appendix C of this report.

2. Scope of Work

The scope of the hazardous building materials survey comprised:

- A building survey to identify hazardous building materials in the accessible areas of the subject building. Hazardous building materials (HBM) include asbestos-containing building materials (ACM), synthetic mineral fibre (SMF) products, lead-containing paint (LCP) and polychlorinated biphenyl (PCB) contained in capacitors in fluorescent light fittings;
- Where accessible, collection of samples of building materials suspected of or commonly known to contain hazardous material (e.g. asbestos materials, potential lead-containing paint). SMF installations and PCBs were identified by visual assessment;



- Submit building material samples to a NATA accredited laboratory for analysis, document the results and provide photographs of positive findings; and
- Provision of an asbestos Register with reference to the requirements of WHS Regulation 2011 (NSW) and Hazardous Building Materials Assessment Report.

No survey inspection can be guaranteed to locate all asbestos and other hazardous materials without extensive destruction of the building and therefore this assessment cannot be regarded as absolute.

Planned or future demolition and or renovation to site structures may expose situations which were concealed or otherwise impractical to access during this assessment. The client should be aware that asbestos ceilings and panels etc. may conceal further ACM, for example asbestos insulated duct or lagged pipework. Removal of asbestos products to identify concealed ACM requires additional controlled conditions and is beyond the scope of a normally executed survey.

No sub-surface or soil investigations were undertaken and all sub-surface areas remain outside of the scope of this survey.

3. Site Description

The site is located at on Raworth Road, Morpeth (refer Figure 1 and 2) and is owned by Lend Lease Retirement Living.

A description of each of the four buildings is provided in Sections 3.1 to 3.4 below.

3.1 Buildings 10 and 11 – Tank Street Cottages

Buildings 10 and 11 are known as the "Tank Street Cottages" and are two single storage buildings connected by a verandah (refer Figure 3). It is understood to have been constructed in 1829.





Figure 3: View of Buildings 10 and 11

The buildings were observed to comprise the following materials:

- Timber external walls;
- Corrugated asbestos roof sheeting;
- Timber floors;
- Masonite and cement sheeting interior walls;
- Metal guttering;
- Vinyl sheet flooring in kitchen; and
- Fluorescent lighting.



3.2 Building 12



Figure 4: View of eastern frontage of Building 12

The double storey brick building was observed to comprise the following materials:

- Brick cladding with ceramic tile roofing;
- Timber eaves with metal guttering;
- Masonary internal wall linings;
- Carpet flooring with Synthetic Mineral Fibre underlay over concrete base;
- Vinyl Sheeting in Bathroom foyer, laundry and kitchen areas;
- Ceramic tile in bathroom areas;
- Timber doors and window framing; and
- Fluorescent lighting.

3.3 Building 13 – Principals Residence

Building 13 is known as the Principal's residence and is a two storey, rendered brick building.





Figure 5: Eastern frontage of Building 13

Building 13 was observed to comprise the following materials:

- Brick external walls;
- Tiled roof;
- Metal guttering;
- Rendered brick interior walls;
- Concrete floors with various coverings, including painted concrete, carpet and vinyl sheeting;
- Timber eaves;
- · Ceramic tile in bathroom areas;
- Timber doors and window framing; and
- Fluorescent lighting.

3.4 Building 14

Building 14 is a single storey building which has a common wall with part of Building 13 (refer Figure 6).





Figure 6: View of eastern frontage of Building 14

The single storey building was observed to comprise the following materials:

- Timber and ACM fibrous cement sheeting external cladding;
- Timber eaves with metal guttering and roofing;
- Combination of Masonite, villaboard and internal ACM cement sheeting internal wall linings;
- Carpeted flooring with Synthetic Mineral Fibre underlay over timber flooring;
- Vinyl Sheeting in kitchen areas;
- Ceramic tile in bathroom areas;
- Timber doors and window framing; and
- Fluorescent lighting.

4. Field Work Methodology

4.1 Inspection Methods

The DP competent person undertook a systematic survey of the nominated areas with a view to identifying the type, location and extent of asbestos and other hazardous building materials prior to the proposed works at the site. Hazardous building materials (HBM) include asbestos-containing building materials (ACM), synthetic mineral fibre (SMF) products, lead-containing paint (LCP) and polychlorinated biphenyl (PCB) contained in capacitors in fluorescent light fittings.



In order to expose potential concealed construction materials, survey techniques may have involved the use of destructive techniques and the opening up of holes in fixtures or fittings in an intrusive manner to facilitate sample collection. DP is not liable for any reinstatement or associated costs to make good. These techniques are employed on the understanding that the area is to be refurbished or demolished and any hazardous materials identified are removed prior to the building being reoccupied.

Where the surveyor encountered access restrictions during the survey, these situations were documented and reported.

4.2 Sampling Methodology

All sampling was undertaken with reference to DP's field procedures HAZSAMP. Asbestos bulk samples were obtained using fibre suppressant techniques in order to minimise fibre release and breaking small portions from the bulk of the suspected ACM using hand tools. Lead-paint samples were taken by scraping off paint from the suspect area. The sampling tools were decontaminated prior to collecting each sample in accordance with DP's field procedures HAZDEC. The collected samples were recorded, placed in sealed, labelled plastic bags and sent to a laboratory NATA accredited to ISO / IEC 17025 for the scientific identification methods of analysis employed. For similar or repetitive building elements, a representative bulk sampling protocol has been adopted following visual examination and assessment.

SMF materials were identified by visual inspection only. Serial numbers of fluorescent light capacitors were recorded only where it is safe to do so and the details of the capacitor identified within is checked against the 1997 ANZECC register for Identification of PCB-Containing Capacitors.

4.3 Analytical Methods

The asbestos materials were qualitatively identified in the laboratory by polarised light microscopy (PLM) in conjunction with dispersion staining in accordance with AS: 4964-2004 Method for the qualitative identification of asbestos in bulk samples. The testing of paint samples for lead content involved the quantitative analysis of lead following sample digestion using ICP-AES/MS, ICP-OES and or CV/AAS. All laboratory analytical methods employed are NATA endorsed.

The Certificate of Analysis is provided in Appendix C.

5. Recommendations Summary

Refer to Appendix A for the Asbestos Materials Register and other hazardous materials register for recommendations, comments and suggested actions. The locations referred to in the asbestos and other hazardous materials register are based on annotated Drawings 3-1 to 3-5 in Appendix D.



5.1 Asbestos-containing Materials Identified

Prior to any demolition, decommissioning, or refurbishment, ACM liable or likely to be disturbed by those works should be removed in accordance with the Code of Practice: How to Safely Remove Asbestos [Safe Work Australia (2011)]. The transport and disposal of asbestos waste is regulated by the EPA. According to the Waste Classification Guidelines, asbestos waste is considered Special Waste and has unique regulatory requirements. All asbestos waste must be legally disposed of at an appropriately licensed waste disposal facility and records must be kept of disposal i.e. waste dockets or receipts.

5.1.1 Friable and Bonded Asbestos

ACM are referred to as either friable or bonded. Friable ACM exhibits a greater risk to human health as fibres are released upon minimal disturbance.

Friable asbestos is in the form of a powder, or can be crumbled, pulverized or reduced to powder by hand pressure when dry. Friable asbestos includes materials such as: sprayed insulation, pipe or cylinder insulation, low density boards, woven textiles, millboard, paper and gaskets. These products can release fibres with only minimal disturbance.

Bonded asbestos products are ones in which the asbestos fibres are bound within the matrix of the material. Bonded asbestos is difficult to damage or cause the release of fibres by hand and includes materials such as asbestos cement products (fibre cement or 'fibro'), vinyl floor tiles, linoleum, mastic and 'zelemite' electrical backing boards. However, bonded ACM that have been subjected to weathering, physical damage, water damage, fire or other conditions may present exposed fibre bundles or loose fibres which could be released upon disturbance.

The asbestos information contained within this report is insufficient to meet the requirement for risk assessment for a management plan. Any asbestos or other hazardous materials remaining *in situ* at the conclusion of the demolition project will need to be detailed in the site asbestos and other hazardous materials register and management plan as required by the Work, Health and Safety Regulation 2011 (NSW) and detailed in the Code of Practice: How to Manage and Control Asbestos in the Workplace [Safe Work Australia (2011)].

5.2 Other Hazardous Materials

5.2.1 Synthetic Mineral Fibre

Prior to any demolition, decommissioning, or refurbishment, synthetic mineral fibre materials liable or likely to be disturbed by those works should be removed in accordance with the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC:2006 (1990)]. SMF waste must be disposed of in accordance with EPA and local guidelines at a licensed land fill facility.

Loose or bonded SMF that has severely deteriorated has the potential of becoming airborne. Health effects that may occur with exposure to certain SMF materials include: irritation of the skin, eyes and upper respiratory tract.



5.2.2 Lead-based paint

The selection of the most appropriate removal control measures should be determined from risk assessments and detailed knowledge of the workplace and proposed activities. Removal is to be undertaken prior to any demolition, decommissioning, or refurbishment, in accordance with AS 4361.2 - 1998 Guide to lead paint management, Part 2: Residential and commercial buildings'. Disposal of waste contaminated with lead (including lead paint waste) should be undertaken according to DECCW's Waste Classification Guidelines, Part 1 Classifying Waste (2009).

5.2.3 PCBs

All capacitors containing or suspected as containing PCB should be removed by a specialist electrical contractor prior to any demolition, decommissioning, or refurbishment, in accordance with the Code of Practice for the safe handling of equipment containing Polychlorinated Biphenyl (PCB) Electrical Contractors' Association of Australia (1993). PCB material and waste must be transported in accordance with the Australian Dangerous Goods Code, EPA guidelines, Chemical Control Order (CCO 1997) and other applicable legislative requirements. PCB waste must be legally disposed of or treated at an appropriately licensed waste disposal facility and records kept of disposal i.e. waste dockets or receipts.

Should any further suspect ACM or other hazardous materials become evident during demolition, decommissioning or refurbishment works, then works should stop in that area and the suspect material be inspected by a competent person.

6. Limitations

Douglas Partners Pty Ltd (DP) has prepared this report for a project at Closebourne Village, located on Raworth Road, Morpeth with reference to DP's proposal NCL160058(Rev1) dated 9 March 2016 and acceptance received from Mr Bruce Gould of Lend Lease Retirement Living. The work was carried out under DP's Conditions of Engagement. The report is provided for the exclusive use of Lend Lease Retirement Living. It should not be used by or relied upon for other projects or purposes on the same or other site or by a third party. Any party so relying upon this report beyond its exclusive use and purpose as stated above, and without the express written consent of DP, does so entirely at its own risk and without recourse to DP for any loss or damage. In preparing this report DP has necessarily relied upon information provided by the client and / or their agents.

The results provided in the report are indicative of the conditions observed on the date of inspection. Changes may occur after DP's inspection and field testing has been completed. Whilst the surveyors make every reasonable effort, DP cannot guarantee that every ACM has been identified and survey results are definitive. Some ACM could be present in the building that may only be discovered by extensive invasion of structures, or when the building is subject to demolition or major refurbishment works.



DP's advice is based upon the conditions encountered during this investigation and by the scope and feasibility of the investigations based on accessibility and other limitations. The accuracy of the advice provided by DP in this report may be limited by inaccessible areas and differing conditions between observed locations. The advice may also be limited by budget constraints imposed by others and the scope of works undertaken constrained as a result, or may have been limited by site accessibility. This report must be read in conjunction with all of the attached and should be kept in its entirety without separation of individual pages or sections. DP cannot be held responsible for interpretations or conclusions made by others unless they are supported by an expressed statement, interpretation, outcome or conclusion stated in this report.

The scope of the survey was to identify reasonably accessible ACM. Reasonably accessible does not extend to searching for concealed ACM within concrete encased structural beams or beneath concrete floors, behind other ACM, or any other locations which, to access, would cause structural damage that could potentially destabilise the structure or the building. Given the way in which ACM was used in the construction of buildings, some ACM may only be detected during the course of subsequent demolition.

The sampling regime is dictated by the building nature. Sufficient representative bulk samples were taken throughout the building i.e. one like sample per consistent material type, situation or item. It is advisable to assume that materials similar to those positively identified as asbestos also contain asbestos until proven to be otherwise. It should not automatically be assumed that materials similar in appearance to those tested and found not to contain asbestos also do not contain asbestos. Due to the very low concentration of asbestos fibres and the non-homogenous matrix of vinyl floor tiles, false negative results may be obtained. With some asbestos containing bulk material it can be very difficult or impossible to detect the presence of asbestos using the polarised light microscopy analytical method, even after ashing or disintegration of samples. This is due to the small length or diameter of asbestos fibres present in the material, or attributed to the fact that very fine fibres have been dispersed individually throughout the material.

Any areas within the scope of the survey but not described within the body of the report or in the asbestos and other hazardous materials register should be regarded by the client as not having been surveyed, and thus may potentially contain ACM. A competent person should assess such areas before any work affecting them is carried out.

- It must be assumed that building materials visually assessed as asbestos contain amphibole
 asbestos, until sampled and laboratory analysis proves otherwise. All areas where access was
 not possible must also be assumed to contain asbestos until proven otherwise. Subsurface
 drains, pipes and formwork or surrounds may be constructed of asbestos cement but subsurface
 areas were not accessed. Any subsurface pipes, particularly those constructed of cement, should
 be assumed to contain asbestos until otherwise assessed; and
- This survey does not constitute an environmental site investigation (assessment) as may be envisaged under the provisions of the Contaminated Land Management Act, 1997. Testing of soil is recommended under NEPM (2013) to ensure that the site is suitable for the proposed land use.

Please note the following limitations and restrictions to specific installations and locations that are commonly found during surveys of this nature. Even if safe access can be provided through consultation with the client, this survey and report may not include the following areas:



- Risers, ceiling, floor, wall cavities and voids may be completely blocked or bricked in.
 Occasionally may only be detected if shown on building construction plans or during demolition;
- Columns or structural elements these will not be penetrated if doing so will damage the stability of the building;
- Roofs and external areas these will only be inspected if safe access can be achieved;
- Confined spaces these will only be inspected if safe access can be achieved;
- **Restricted access** areas subject to restricted or specialist access will not be inspected unless prior arrangements have been made through the client within the scope of the survey;
- Lifts / lift shafts these will not be inspected for safety reasons unless a lift engineer accompanies the surveyor;
- Live plant or electrical installations live electrical installations including fuse boxes, electrical control cabinets, distribution panels etc. are not routinely inspected for safety reasons. Electrical equipment will only be examined if it is locked off and an isolation certificate has been issued. Under exceptional circumstances, when arranged by the client, examination of non-isolated equipment may take place under the supervision of an electrician;
- Boilers may contain asbestos internally, or conceal further ACM, which are not accessible until
 the boiler is dismantled. Note: Where a bulk sample is obtained from a non-dismantled boiler it
 should not be regarded as definitive of all materials contained within the boiler's structure;
- Live refrigerators, cold rooms, mechanical equipment, heater units, kilns may contain asbestos internally, which is not visible or accessible until the unit is isolated and dismantled; and
- Safes the walls of some safes cannot be penetrated even where access arrangements have been made.

The recommendations and conclusions contained in this report shall not abrogate a person of their responsibility to work in accordance with Statutory Requirements, Codes of Practice, Guidelines, Material Safety Data Sheets, Work Instructions or industry best practices.

7. Legislation and References

Work Health and Safety Act and Regulations 2011 (Commonwealth, NSW, ACT & QLD).

Ashestos

- Code of Practice: How to Manage and Control Asbestos in the Workplace [Safe Work Australia (2011)];
- Code of Practice: How to Safely Remove Asbestos [Safe Work Australia (2011)];
- Code of Practice for the Management and Control of Asbestos in Workplaces [NOHSC: 2018 (2005)];
- Code of Practice for the Safe Removal of Asbestos, [NOHSC: 2002 (2005)];
- AS 4964 2004 "Australian Standard™ Method for the qualitative identification of asbestos in bulk samples";
- Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres 2nd Edition, [NOHSC:3003 (2005)];



- Demolition Work Code of Practice [WorkCover NSW (2014)];
- AS 2601 2001 "Australian Standard™ The Demolition of Structures, Section 1.6";
- Health and Safety Laboratory UK HSG 264 Asbestos The Survey Guide 2010;
- Health and Safety Laboratory UK Methods for the Determination of Hazardous Substances (MDHS) 100 Surveying, sampling and assessment of asbestos-containing materials 2001; and
- Health and Safety Laboratory UK HSG 227 A Comprehensive Guide to Managing Asbestos in Premises 2002.

SMF

- National Standard for Synthetic Mineral Fibres [NOHSC: 1004 (1990)];
- Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)];
- "Position Paper on Synthetic Mineral Fibres (SMF) & Occupational Health Issues", AIOH including exposure Standards Committee 2011; and
- "Industry Code of Practice for the Safe Use of Glass Wool and Rock Wool Products", jointly developed by AMNWU, CFMEU, CEPU and FARIMA, 2003.

Lead in Paint

- AS 4361.2 1998 "Australian Standard™ Guide to lead paint management, Part 2: Residential and commercial buildings";
- AS 4361.1—1995 "Australian Standard™ Guide to lead paint management, Part 1: Industrial applications";
- National Code of Practice for the Control and Safe Use of Inorganic Lead at Work [NOHSC: 2015 (1994)];
- AS 4874 2000 "Australian Standard™ Guide to the investigation of potentially contaminated soil and deposited dust as source of lead available to humans";
- 'Standard for the Uniform Scheduling of Medicines and Poisons No. 3', National Health and Medical Research Council (NHMRC), Poisons Standard 2012; and
- AS 3640 2009 "Australian Standard™ Workplace Atmospheres Method for Sampling and Gravimetric Determination of Inhalable Dust".

PCBs

- Identification of PCB-containing capacitors [(ANZECC) 1997];
- Polychlorinated Biphenyls Management Plan, [(ANZECC) 1999 revised 2003];
- Code of Practice for the safe handling of equipment containing Polychlorinated Biphenyl (PCB)
 Electrical Contractors' Association of Australia, 1993; and
- Polychlorinated Biphenyl (PCB) Chemical Control Order 1997.

Approved Criteria for Classifying Hazardous Substances, [NOHSC: 1008 (2004)].

DECCW (2009) 'Waste Classification Guidelines, Part 1: Classifying Waste'.

Douglas Partners Pty Ltd

Appendix A

Asbestos and Other Hazardous Materials Register



Asbestos Materials Register - Buildings 10 and 11

For Action Classification, Material Descriptions and Register Terminology please refer to GLOSSARY.

Client:	Lend Lease Retirement Living	Assessment by:	Michael Gawn	
Site location:	Buildings 10 and 11	Assessment	27 April 2016	
	Closebourne Village, Raworth Road, Morpeth	date:	27 April 2010	

Location Description	Sample No	Photo No	Asbestos Type	Friability Status	Product Type	Extent	Recommendation (A1 - A4)*	Comments / Action	
Building 10	Building 10								
Wall sheeting above picture rail in hall (similar in all rooms)	B10A1	1	Chrysotile	Bonded	Cement Sheeting	~250m ²	A1	Remove prior to any demolition or refurbishment works that may disturb the installation. Should the material not be affected by the works, leave in-situ, affix asbestos warning labels, manage and re-inspect.	
Classroom wall sheeting above picture rail	B10A2	2	Chrysotile	Bonded	Cement Sheet	~70m²	A1	Remove prior to any demolition or refurbishment works that may disturb the installation. Should the material not be affected by the works, leave in-situ, affix asbestos warning labels, manage and re-inspect.	
Corrugated asbestos sheeting on roof	B10A3	3	Chrysotile	Bonded	Corrugated Cement Sheeting	~200m²	A1	Remove prior to any demolition or refurbishment works that may disturb the installation. Should the material not be affected by the works, leave in-situ, affix asbestos warning labels, manage and re-inspect.	



Location Description	Sample No	Photo No	Asbestos Type	Friability Status	Product Type	Extent	Recommendation (A1 - A4)*	Comments / Action		
Building 11	Building 11									
Sunroom wall sheets	B11A1	4	Chrysotile	Bonded	Cement Sheeting	~36m²	A1	Remove prior to any demolition or refurbishment works that may disturb the installation. Should the material not be affected by the works, leave in-situ, affix asbestos warning labels, manage and re-inspect.		
Bedroom 1 all walls above picture rail (similar in Bed 4, hall, Bed 2, kitchen)	B11A2		Chrysotile	Bonded	Cement Sheet	~230m²	A1	Remove prior to any demolition or refurbishment works that may disturb the installation. Should the material not be affected by the works, leave in-situ, affix asbestos warning labels, manage and re-inspect.		
Kitchen vinyl flooring sheets	B11A3	6	Chrysotile		Vinyl Flooring	~16m²	A1	Remove prior to any demolition or refurbishment works that may disturb the installation. Should the material not be affected by the works, leave in-situ, affix asbestos warning labels, manage and re-inspect.		
Toilet wall sheets	B11A4	7	NAD	Bonded	Cement Sheet	~15m²				
External eaves	Assumed	8	Not known	Bonded	Cement Sheet	~20m²	A1	Remove prior to any demolition or refurbishment works that may disturb the installation. Should the material not be affected by the works, leave in-situ, affix asbestos warning labels, manage and re-inspect.		



Location Description	Sample No	Photo No	Asbestos Type	Friability Status	Product Type	Extent	Recommendation (A1 - A4)*	Comments / Action	
Building 11	Building 11								
Electrical Board	B11A5	9	Assumed Zelemite	Bonded	Cement Sheet	<1m²	A1	Remove prior to any demolition or refurbishment works that may disturb the installation. Should the material not be affected by the works, leave in-situ, affix asbestos warning labels, manage and re-inspect.	
Corrugated asbestos sheeting on roof	Assumed	3	Assumed Chrysotile (as B10A3)	Bonded	Corrugated Cement Sheeting	~200m²	A1	Remove prior to any demolition or refurbishment works that may disturb the installation. Should the material not be affected by the works, leave in-situ, affix asbestos warning labels, manage and re-inspect.	
Fibrous material in roof space	B11SMF1	10	Chrysotile	Fibrous	Insulation	~4m²	A1	Remove prior to any demolition or refurbishment works that may disturb the installation. Should the material not be affected by the works, leave in-situ, affix asbestos warning labels, manage and re-inspect.	



Other Hazardous Materials Register – Buildings 10 and 11

Lead Paint and Lead

Location and description	Sample ID	% Lead	Photo No.	Recommendation
Building 10				
White ceiling paint in room 2	B10P1	<0.05	11	<1.0% Not classified as lead based paint.
Building 11				
Beige exterior walls and posts	B11P1	2.4	12	Lead based paint

Polychlorinated Biphenyls (PCB)

Location and description	Sample ID	Photo No	Recommendation
Fluorescent light fittings (both buildings)	Visual observation	13	-



Asbestos Materials Register – Building 12

For Action Classification, Material Descriptions and Register Terminology please refer to GLOSSARY.

Client:	Lend Lease Retirement Living	Assessment by:	Paulo Sebastian
Site location:	Building 12, Dorms	Assessment date:	27 April 2016

Location Description	Sample No	Photo No	Asbestos Type	Friability Status	Product Type	Extent	Recommendation (A1 - A4)*	Comments / Action
Building 12 – Dorms								
Laundry, Kitchen, Bathroom foyer (first and second floors) Light Blue Vinyl Sheeting	B12/A1	14	NAD	Bonded	Vinyl Sheeting	~50 m²	-	-
Bathroom and shower partitions (first and second floors) Compressed Fibrous Cement	B12/A2	15	NAD	Bonded	Fibrous Cement	~30 m²	-	-
Electrical distribution board – First Floor of building	Visual Assumed	18	Not Known	Bonded	Zelemite	~1m²	A1	Remove prior to any demolition or refurbishment works that may disturb the material. Should the material not be affected by the works, leave insitu, affix asbestos warning labels, manage and re-inspect.



Other Hazardous Materials Register – Building 12

Lead Paint

Location and description	Sample ID	% Lead	Photo No.	Recommendation
White Interior Paint	B12/P1	<0.05	1	<1.0% Not classified as lead based paint.
Faded Pink Gloss Paint	B12/P2	0.1	-	<1.0% Not classified as lead based paint.
Lead Flashing – Vent Pipe joins on roof	Visual Assumed	Assume positive	-	Remove during demolition without discharge to the environment.

Synthetic Mineral Fibres (SMF)

	Location and description	Sample ID	Photo No.	Friability	Recommendation
Carp	et Underlay under (entire floor area ~900m²).	Visual observation	16	Friable	Remove prior to major demolition/refurbishment works. Should the material not be affected by the proposed works, leave and maintain in good condition.
	ation within internal wall voids (assuming all nal wall cavities ~1000m²).	Visual observation	17	Friable	Remove prior to major demolition/refurbishment works. Should the material not be affected by the proposed works, leave and maintain in good condition.



Asbestos Materials Register – Building 13

For Action Classification, Material Descriptions and Register Terminology please refer to GLOSSARY.

Client:	Lend Lease Retirement Living	Assessment by:	Michael Gawn
Site location:	Building 13, Principal's Residence	Assessment	27 April 2016
	Closebourne Village, Raworth Road, Morpeth	date:	27 April 2010

Location Description	Sample No	Photo No	Asbestos Type	Friability Status	Product Type	Extent	Recommendation (A1 - A4)*	Comments / Action		
Building 13 – Principal's Residence										
Vinyl flooring in lower Room 1	B13A1	19	NAD	Bonded	Vinyl Sheeting	-	-	-		
Internal wall sheeting in upper floor outside bathroom	B13A2	20	Chrysotile	Bonded	Cement Sheeting	~20m²	A1	Remove prior to any demolition or refurbishment works that may disturb the installation. Should the material not be affected by the works, leave in-situ, affix asbestos warning labels, manage and reinspect.		
Ceiling in upper toilet	B13A3	21	Chrysotile Amosite	Bonded	Cement Sheeting	~6m²	A1	Remove prior to any demolition or refurbishment works that may disturb the installation. Should the material not be affected by the works, leave in-situ, affix asbestos warning labels, manage and reinspect.		



Location Description	Sample No	Photo No	Asbestos Type	Friability Status	Product Type	Extent	Recommendation (A1 - A4)*	Comments / Action
Common wall between Buildings 13 and 14	Assumed	22	Not Known	Bonded	Cement Sheeting	~40m²	A1	Remove prior to any demolition or refurbishment works that may disturb the installation. Should the material not be affected by the works, leave in-situ, affix asbestos warning labels, manage and reinspect.

Other Hazardous Materials Register – Building 13

Lead Paint and Lead

Location and description	Sample ID	% Lead	Photo No.	Recommendation
Building 13				
Interior beige paint	B13P1	<0.05	23	<1.0% Not classified as lead based paint.
Light pink / cream paint, exterior rails, livable roof area	B13P2	0.4	24	<1.0% Not classified as lead based paint.
Lt yellow/cream exterior paint upper storey bathroom	B13P3	1.8	25	Remove during demolition without discharge to the environment.
Beige paint on ceiling in upper floor landing	B13P4	<0.05	26	<1.0% Not classified as lead based paint.
Lead Flashing and Damp Course	Visual Observation	Assume positive	27	Remove during demolition without discharge to the environment.



Other Hazardous Materials Register - Building 13

Polychlorinated Biphenyls (PCB)

Location and description	Sample ID	Photo No	Recommendation
Fluorescent light fittings	Visual observation	-	-



Asbestos Materials Register – Building 14

For Action Classification, Material Descriptions and Register Terminology please refer to GLOSSARY.

Client:	Lend Lease Retirement Living	Assessment by:	Paulo Sebastian
Site location:	Building 14	Assessment date:	27 April 2016

Location Description	Sample No	Photo No	Asbestos Type	Friability Status	Product Type	Extent	Recommendation (A1 - A4)*	Comments / Action			
Building 14	Building 14										
External Wall Cladding – Fibrous Cement Sheeting	B14/A1	28 - 30	Chrysotile	Bonded	Fibrous Cement Sheeting	~270 m ²	A1	Remove prior to any demolition or refurbishment works that may disturb the installation. Should the material not be affected by the works, leave in-situ, affix asbestos warning labels, manage and reinspect			
Internal Wall Linings – Fibrous Cement Sheeting	B14/A2	30 - 32	Chrysotile	Bonded	Fibrous Cement	~300 m ²	A1	Remove prior to any demolition or refurbishment works that may disturb the installation. Should the material not be affected by the works, leave in-situ, affix asbestos warning labels, manage and reinspect			
Light Green Vinyl Tile (Rooms R1, R2, R3, R4)	B14/A3	33	NAD	Bonded	Vinyl Tile	~50 m²	-	-			



Location Description	Sample No	Photo No	Asbestos Type	Friability Status	Product Type	Extent	Recommendation (A1 - A4)*	Comments / Action
Cement Flue Pipe – External Hot Water System	Visual Assumed	34	Not Known	Bonded	Cement Pipe	~3m	A1	Remove prior to any demolition or refurbishment works that may disturb the installation. Should the material not be affected by the works, leave in-situ, affix asbestos warning labels, manage and reinspect.

Other Hazardous Materials Register – Building 14

Lead Paint

Location and description	Sample ID	% Lead	Photo No.	Recommendation
Light Yellow Exterior Paint	B14/P1	1.9	29	Remove during demolition without discharge to the environment.
White Exterior and Interior Paint	B14/P2	3.3	28	Remove during demolition without discharge to the environment.
Sub floor zones - Presumed lead damp proof course to brick footings and walls	Visual Observation	Assume positive	35	Remove during demolition without discharge to the environment.



Other Hazardous Materials Register – Building 14 (continued)

Synthetic Mineral Fibres (SMF)

Location and description	Sample ID	Photo No.	Friability	Recommendation
Carpet Underlay (majority of floor area ~270m²).	Visual observation	36	Friable	Remove prior to major demolition/refurbishment works. Should the material not be affected by the proposed works, leave and maintain in good condition.
SMF beneath metal cladding of external hot water system	Visual Assumed	34	Friable	Remove prior to major demolition/refurbishment works. Should the material not be affected by the proposed works, leave and maintain in good condition.



Glossary

The asbestos information in this report is supplied on the understanding that the area surveyed is to be subject to demolition or major refurbishment and that all the identified **ACM** and other hazardous materials will be removed as part of those works.

Action *

		Remove prior to demolition, refurbishment, decommissioning or maintenance
A1	Action 1	All asbestos and other hazardous materials likely or liable to be disturbed should be removed prior to, or during demolition, refurbishment, decommissioning or maintenance.

Douglas Partners adopt the following material assessments for asbestos in order to assess the risks associated with the **ACM** identified:

Friability

Variable	Score	Description
Friable	Υ	Material which when dry may become crumbled, pulverised or reduced to powder by hand pressure. Includes severely weathered or damaged cement products.
	N	Bonded

Materials Assessment

Variable	Scores	Score Description	
Asbestos Type	0	No asbestos	
	1	Chrysotile only	
	2	Amphibole asbestos (excluding Crocidolite)	
	3	Crocidolite	
Product Type	0	No asbestos detected	
	1	Bonded asbestos in good condition	
	2	Friable asbestos in good condition or cement in poor condition	
	3	Friable asbestos in poor condition	



Douglas Partners adopt the following material assessments in order to assess the risks associated with hazardous materials identified other than asbestos:

Friability

Variable	Score	Description	
Friable	Υ	Loose or unsealed SMF	
	N	Sealed SMF	
	NA	Applicable to PCB, Lead in paint	

The following abbreviations or acronyms may be used in the report or register:

СН	Chrysotile (white) asbestos
CR	Crocidolite (blue) asbestos
AM	Amosite (brown) asbestos
NAD	No asbestos detected
SMF	Synthetic Mineral Fibre
РСВ	Polychlorinated Biphenyls
LCP	Lead-containing paint
VO	Visual observation

Appendix B

About this Inspection Report Site Photographs

About this Inspection Report



Introduction

These notes are provided to amplify DP's inspection report in regard to the limitations of carrying out inspection work. Not all notes are necessarily relevant to this report.

Standards

This inspection report has been prepared by qualified personnel to current engineering standards of interpretation and analysis.

Copyright and Limits of Use

This inspection report is the property of DP and is provided for the exclusive use of the client for the specific project and purpose as described in the report. It should not be used by a third party for any purpose other than to confirm that the construction works addressed in the report have been inspected as described. Use of the inspection report is limited in accordance with the Conditions of Engagement for the commission.

DP does not undertake to guarantee the works of the contractors or relieve them of their responsibility to produce a completed product conforming to the design.

Reports

This inspection report may include advice or opinion that is based on engineering and/or geological interpretation, information provided by the client or the client's agent, and information gained from:

- an investigation report for the project (if available to DP);
- inspection of the work, exposed ground conditions, excavation spoil and performance of excavating equipment while DP was on site;
- investigation and testing that was carried out during the site inspection;
- anecdotal information provided by authoritative site personnel; and

DP's experience and knowledge of local geology.

Such information may be limited by the frequency of any inspection or testing that was able to be practically carried out, including possible site or cost constraints imposed by the client/contractor(s). For these reasons, the reliability of this inspection report is limited by the scope of information on which it relies.

Every care is taken with the inspection report as it relates to interpretation of subsurface conditions and any recommendations or suggestions for construction or design. However, DP cannot anticipate or assume responsibility for:

- unexpected variations in subsurface conditions that are not evident from the inspection; and
- the actions of contractors responding to commercial pressures.

Should these issues occur, then additional advice should be sought from DP and, if required, amendments made.

This inspection report must be read in conjunction with any attached information. This inspection report should be kept in its entirety without separation of individual pages or sections. DP cannot be held responsible for interpretations or conclusions from review by others of this inspection report or test data, which are not otherwise supported by an expressed statement, interpretation, outcome or conclusion stated in this inspection report.



Photo 1: Building 10 - Wall sheeting above picture rail in hall (all rooms)



Photo 2: Builging 10 - wall sheeting in classroom above picture rail



Hazardous Material Assessment		PROJECT:	81251.13
Building	gs 10 and 11	Plate	1
Closebourne Village, Morpeth		REV:	Α
Client	Lend Lease Retirement Living	DATE:	2-May-16



Photo 3: Buildings 10 and 11 - Asbestos corrugated roofing



Photo 4: Building 11 - Wall sheeting in sunroom



Hazardous Material Assessment		PROJECT:	81251.13
Building	gs 10 and 11	Plate	2
Closebourne Village, Morpeth		REV:	А
Client	Lend Lease Retirement Living	DATE:	2-May-16



Photo 5: Building 11 - Wall sheeting in Bed 1



Photo 6: Building 11 - Vinyl flooring sheets in kitchen



Hazardo	ous Material Assessment	PROJECT:	81251.13
Building	gs 10 and 11	Plate	3
Closebo	ourne Village, Morpeth	REV:	Α
Client	Lend Lease Retirement Living	DATE:	2-May-16



Photo 7: Building 11 - Toilet wall sheets



Photo 8: Building 11 - External Eaves



Hazardo	ous Material Assessment	PROJECT:	81251.13
Building	gs 10 and 11	Plate	4
Closebo	ourne Village, Morpeth	REV:	Α
Client	Lend Lease Retirement Living	DATE:	2-May-16



Photo 9: Building 11 - Electrical Board



Photo 10: Building 11 - Fibrous material in roof space



Hazardo	ous Material Assessment	PROJECT:	81251.13
Building	gs 10 and 11	Plate	5
Closebo	ourne Village, Morpeth	REV:	Α
Client	Lend Lease Retirement Living	DATE:	2-May-16



Photo 11: Building 10 - White paint in Room 2



Photo 12: Building 11 - Beige exterior walls and posts



Hazardous Material Assessment		PROJECT:	81251.13
Building	gs 10 and 11	Plate	6
Closebo	ourne Village, Morpeth	REV:	Α
Client	Lend Lease Retirement Living	DATE:	2-May-16



Photo 13: Buildings 10 and 11 - Flourescent lighting

Douglas Partners Geotechnics Environment Groundwate	;
Geotechnics Environment Groundwate	ī

Hazardo	ous Material Assessment	PROJECT:	81251.13
Building	gs 10 and 11	Plate	7
Closebo	ourne Village, Morpeth	REV:	Α
Client	Lend Lease Retirement Living	DATE:	2-May-16



Photo 14: Light Blue Vinyl Laminte Sheeting in Bathroom, Kitchen and Luandry



Photo 15: Compressed Fibrous Cement within Bathroom Partions



Hazardo	ous Material Assessment	PROJECT:	81251.13
Building	j 12	Plate	8
Closebo	ourne Village, Morpeth	REV:	Α
Client	Lend Lease Retirement Living	DATE:	27-Apr-16



Photo 16: Brown SMF underlay under carpeted areas



Photo 17: Insulation filling between internal wall cavities



Hazardo	ous Material Assessment	PROJECT:	81251.13
Building	j 12	Plate	9
Closebourne Village, Morpeth		REV:	Α
Client	Lend Lease Retirement Living	DATE:	27-Apr-16



Photo 18: Elecrical Distribution Board, First Floor

db	Douglas Partners Geotechnics Environment Groundwater
	Geotechnics Environment Groundwater

Hazardo	ous Material Assessment	PROJECT:	81251.13
Building	j 12	Plate	10
Closebo	ourne Village, Morpeth	REV:	Α
Client	Lend Lease Retirement Living	DATE:	27-Apr-16



Photo 19: Building 13 - Vinyl flooring in lower Room 1

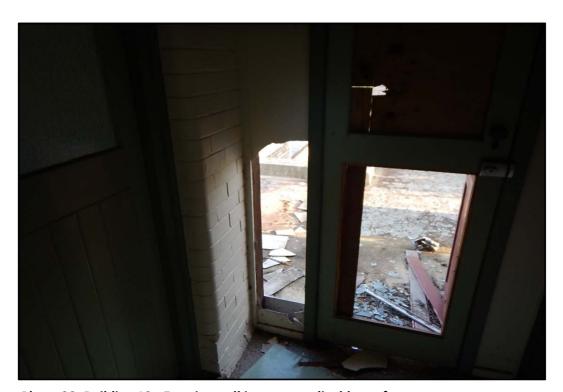


Photo 20: Building 13 - Exterior wall in access to livable roof space



Hazardous Material Assessment		PROJECT:	81251.13
Building	j 13	Plate	11
Closebourne Village, Morpeth		REV:	A
Client	Lend Lease Retirement Living	DATE:	2-May-16



Photo 21: Building 13 - Ceiling sheet outside upper floor bathroom

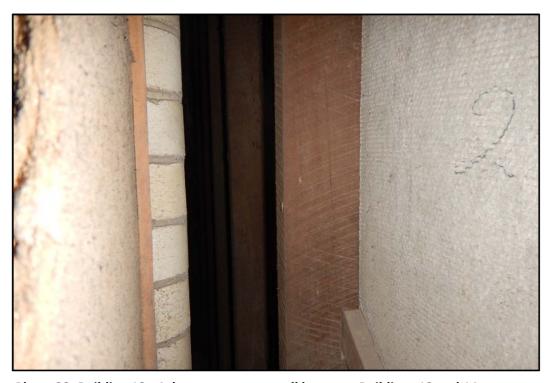


Photo 22: Building 13 - Asbestos common wall between Buildings 13 and 14



Hazardo	ous Material Assessment	PROJECT:	81251.13
Building	j 13	Plate	12
Closebourne Village, Morpeth		REV:	Α
Client	Lend Lease Retirement Living	DATE:	2-May-16



Photo 23: Building 13 - Inerior beige paint



Photo 24: Building 13 - Light pink / cream paint, exterior rails, livable roof area



Hazardous Material Assessment		PROJECT:	81251.13
Building	j 13	Plate	13
Closebo	ourne Village, Morpeth	REV:	Α
Client	Lend Lease Retirement Living	DATE:	2-May-16



Photo 25: Building 13 - Lt yellow/cream exterior paint upper storey bathroom



Photo 26: Building 13 - Beige paint on ceiling in upper floor landing



Hazardous Material Assessment		PROJECT:	81251.13
Building	j 13	Plate	14
Closebo	ourne Village, Morpeth	REV:	Α
Client	Lend Lease Retirement Living	DATE:	2-May-16



Photo 27: Building 13 - Lead flashing and damp course

db	Douglas Partners Geotechnics Environment Groundwater
	Geotechnics Environment Groundwater

Hazardous Material Assessment		PROJECT:	81251.13
Building	j 13	Plate	15
Closebo	ourne Village, Morpeth	REV:	А
Client	Lend Lease Retirement Living	DATE:	2-May-16



Photo 28: Building 14 - External building cladding comprising ACM, looking north east



Photo 29: Building 14 - External building cladding comprising ACM, looking south



Hazardo	ous Material Assessment	PROJECT:	81251.13
Building	j 14	Plate	16
Closebo	ourne Village, Morpeth	REV:	А
Client Lend Lease Retirement Living		DATE:	27-Apr-16



Photo 30: Building 14 - Damaged external and internal wall linings



Photo 31: Building 14 - Internal wall linings, comprising ACM in bathroom area



Hazardo	ous Material Assessment	PROJECT:	81251.13
Building	j 14	Plate	17
Closebo	ourne Village, Morpeth	REV:	А
Client	Lend Lease Retirement Living	DATE:	27-Apr-16



Photo 32: Building 14 - Internal wall lining, comprising ACM in rooms



Photo 33: Building 14 - Light green vinyl tile



Hazardous Material Assessment		PROJECT:	81251.13
Building	j 14	Plate	18
Closebo	ourne Village, Morpeth	REV:	Α
Client	Lend Lease Retirement Living	DATE:	27-Apr-16



Photo 34: Building 14 - Hot water system with cement flue assumed to comprise ACM



Photo 35: Building 14 - Subfloor zone with assumed lead damp proof course over brick footings



Hazardo	ous Material Assessment	PROJECT:	81251.13
Building	j 14	Plate	19
Closebo	ourne Village, Morpeth	REV:	Α
Client	Lend Lease Retirement Living	DATE:	27-Apr-16



Photo 36: Building 14 - Carpet underlay assumed to comprise SMF

Hazardo	ous Material Assessment	PROJECT:	81251.13
Building	j 14	Plate	20
Closebo	ourne Village, Morpeth	REV:	Α
Client	Lend Lease Retirement Living	DATE:	27-Apr-16

Appendix C

Laboratory Certificate of Analysis

Chain of Custodies – Field and Dispatch

Sample Receipts





email: sydney@envirolab.com.au envirolab.com.au

Envirolab Services Pty Ltd - Sydney | ABN 37 112 535 645

CERTIFICATE OF ANALYSIS 147470

Client:

Douglas Partners Newcastle

Box 324 Hunter Region Mail Centre Newcastle NSW 2310

Attention: Michael Gawn

Sample log in details:

Your Reference: 81251.13, Hazardous Material Assessment

No. of samples: 46 Materials, 30 Paints

Date samples received / completed instructions received 27/05/16 / 27/05/16

Analysis Details:

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details:

Date results requested by: / Issue Date: 3/05/16 / 2/06/16

Date of Preliminary Report: Not Issued

NATA accreditation number 2901. This document shall not be reproduced except in full.

Accredited for compliance with ISO/IEC 17025. Tests not covered by NATA are denoted with *.

Results Approved By:

Jacinta/Hurst Laboratory Manager



	_	T	T	T	T	T
Asbestos ID - materials						
Our Reference:	UNITS	147470-1	147470-2	147470-3	147470-4	147470-5
Your Reference		B1A1	B1A2	B1A3	B1A4	B1A5
Type of sample		Material	Material	Material	Material	Material
Date analysed	-	1/06/2016	1/06/2016	1/06/2016	1/06/2016	1/06/2016
Mass / Dimension of Sample	-	16x16x4mm	110x90x7mm	50x17x3mm	15x15x1mm	30x24x11mm
Sample Description	-	Blue/grey fibre cement material	Beige plaster material	Blue/grey fibre cement material	Beige fibre cement material	Brown compressed bituminous material
Asbestos ID in materials	-	Chrysotile asbestos detected Amosite asbestos detected Crocidolite asbestos detected	No asbestos detected Organic fibres detected	Chrysotile asbestos detected Crocidolite asbestos detected	Chrysotile asbestos detected Organic fibres detected	Chrysotile asbestos detected
Asbestos ID - materials						
Our Reference:	UNITS	147470-6	147470-7	147470-8	147470-9	147470-10
Your Reference	UNITS	B1A6	B1A7	B3A1	B3A3	B4A1
Tour Reference	-	BIAO	BIAI	BOAT	BOAG	סאאו
Type of sample		Material	Material	Material	Material	Material
Date analysed	-	1/06/2016	1/06/2016	1/06/2016	1/06/2016	1/06/2016
Mass / Dimension of Sample	-	15x8x2mm	25x10x3mm	43x30x2mm	55x35x3mm	23x22x5mm
Sample Description	-	Grey fibre cement material	Grey fibre cement material	Beige pebbled flexible vinyl sheet	Beige layered fibre cement material	Beige layered fibre cement material
Asbestos ID in materials	-	Chrysotile asbestos detected	Chrysotile asbestos detected	No asbestos detected Synthetic mineral fibre detected	Chrysotile asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected
Asbestos ID - materials						
Our Reference:	UNITS	147470-11	147470-12	147470-13	147470-14	147470-15
Your Reference		B4A2	B4A3	B4A4	B4A5	B4A6
Type of sample		Material	Material	Material	Material	Material
Date analysed	_	1/06/2016	1/06/2016	1/06/2016	1/06/2016	1/06/2016
Mass / Dimension of Sample		32x18x4mm	65x28x2mm	33x22x4mm	50x27x10mm	50x18x8mm
	_					
Sample Description	-	Beige fibre cement material	Green flexible vinyl sheet	Grey compressed fibre cement material	Beige layered fibre cement material	Beige fibre cement material
Asbestos ID in materials	-	No asbestos detected Organic fibres detected	No asbestos detected Synthetic mineral fibre detected	Chrysotile asbestos detected Amosite asbestos detected	Chrysotile asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected

				T		I
Asbestos ID - materials Our Reference:	UNITS	147470-16	147470-17	147470-18	147470 10	147470-20
Your Reference	UNITS	147470-16 B4A7	B5A1	B6A1	147470-19 B7A1	B7A2
Tour Reference	-	DTAI	BJAT	BOAT	BIAI	BIAZ
Type of sample		Material	Material	Material	Material	Material
Date analysed	-	1/06/2016	1/06/2016	1/06/2016	1/06/2016	1/06/2016
Mass / Dimension of Sample	_	25x15x2mm	40x17x4mm	163x70x5mm	140x70x4mm	50x50x4mm
Sample Description	_	Grey fibre	Grey fibre	Grey	Grey	Grey
		cement material	cement material	compressed fibre cement material	compressed fibre cement material	compressed fibre cement material
Asbestos ID in materials	-	Chrysotile asbestos detected Amosite asbestos detected	Chrysotile asbestos detected	Chrysotile asbestos detected Amosite asbestos detected Crocidolite asbestos detected	Chrysotile asbestos detected	Chrysotile asbestos detected Amosite asbestos detected
Ashastas ID. matariala						
Asbestos ID - materials Our Reference:	UNITS	147470-21	147470-22	147470-23	147470-24	147470-25
Your Reference		B7A3	B7A4	B8SMF1	B8A1	B8A2
	-					
Type of sample		Material	Material	Material	Material	Material
Date analysed	-	1/06/2016	1/06/2016	1/06/2016	1/06/2016	1/06/2016
Mass / Dimension of Sample	-	105x70x4mm	75x72x4mm	40x30x3mm	37x27x5mm	70x30x3mm
Sample Description	-	Grey compressed fibre cement material	Beige layered fibre cement material	Beige vitreous fibrous material	Beige compressed fibre cement material	Grey brittle vinyl tile
Asbestos ID in materials	-	Chrysotile asbestos detected Amosite asbestos detected	No asbestos detected Organic fibres detected	No asbestos detected Synthetic mineral fibre detected	Chrysotile asbestos detected Amosite asbestos detected	Chrysotile asbestos detected
Asbestos ID - materials						
Our Reference:	UNITS	147470-26	147470-27	147470-28	147470-29	147470-30
Your Reference		B8A3	B8A4	B8A5	B9A1	B9A2
Type of sample		Material	Material	Material	Material	Material
Date analysed	-	1/06/2016	1/06/2016	1/06/2016	1/06/2016	1/06/2016
Mass / Dimension of Sample	-	70x43x5mm	55x27x1mm	45x10x5mm	80x40x6mm	50x45x4mm
Sample Description	-	Beige layered fibre cement material	Beige flexible vinyl tile	Brown resinous fibre cement material	Beige layered fibre cement material	Grey compressed fibre cement material
Asbestos ID in materials	-	No asbestos detected Organic fibres detected	Chrysotile asbestos detected	No asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected	Chrysotile asbestos detected Amosite asbestos detected

	1					
Asbestos ID - materials						
Our Reference:	UNITS	147470-31	147470-32	147470-33	147470-34	147470-35
Your Reference		B10A1	B10A2	B10A3	B11A1	B11A2
Type of sample		Material	Material	Material	Material	Material
Date analysed	-	1/06/2016	1/06/2016	1/06/2016	1/06/2016	1/06/2016
Mass / Dimension of Sample	-	80x40xmm4	70x70x4mm	90x80x4mm	90x80x4mm	50x32x4mm
Sample Description	_	Beige	Beige	Grey	Grey	Grey
· ·		compressed	compressed	compressed	compressed	compressed
		fibre cement	fibre cement	fibre cement	fibre cement	fibre cement
		material	material	material	material	material
Asbestos ID in materials	-	Chrysotile	Chrysotile	Chrysotile	Chrysotile	Chrysotile
		asbestos	asbestos	asbestos	asbestos	asbestos
		detected	detected	detected	detected	detected
Ashastas ID materials					1	1
Asbestos ID - materials Our Reference:	UNITS	147470-36	147470-37	147470-38	147470-39	147470-40
Your Reference	014113	B11A3	B11A4	B12A1	B12A2	B13A1
Tour reference	_	BTIAG	BIIA	BIZAT	DIZAZ	BIOAT
Type of sample		Material	Material	Material	Material	Material
Date analysed	-	1/06/2016	1/06/2016	1/06/2016	1/06/2016	1/06/2016
Mass / Dimension of Sample	-	30x30x2mm	40x25x12mm	35x27x2mm	35x20x6mm	120x80x2mm
Sample Description	_	A)Beige brittle	Grey layered	Blue flexible	Grey	Brown brittle
·		tile B)Brown	fibre cement	vinyl tile	compressed	vinyl tile &
		masonite	material		fibre cement	woven backing
					material	
Asbestos ID in materials	-	A) Chrysotile	No asbestos	No asbestos	No asbestos	No asbestos
		asbestos detected	detected	detected	detected	detected
		B) No asbestos	Organic fibres detected		Organic fibres detected	Organic fibres detected
		detected	40100104		dotootod	dotootod
		Organic fibres				
		detected				
Asbestos ID - materials						
Our Reference:	UNITS	147470-41	147470-42	147470-43	147470-44	147470-45
Your Reference		B13A2	B13A3	B14A1	B14A2	B14A3
Type of sample		Material	Material	Material	Material	Material
Date analysed	-	1/06/2016	1/06/2016	1/06/2016	1/06/2016	1/06/2016
Mass / Dimension of Sample	-	70x50x4mm	60x35x4mm	70x50x4mm	75x55x4mm	30x25x2mm
Sample Description	_	Beige	Grey	Grey	Grey	Grey flexible
		compressed	compressed	compressed	compressed	vinyl tile & paper
		fibre cement	fibre cement	fibre cement	fibre cement	sheet
		material	material	material	material	
Asbestos ID in materials	-	Chrysotile	Chrysotile	Chrysotile	Chrysotile	No asbestos
		asbestos	asbestos	asbestos	asbestos	detected
		detected Organic fibres	detected Amosite	detected	detected	
		detected	asbestos			
			detected			
			uelecteu			

Asbestos ID - materials		
Our Reference:	UNITS	147470-76
Your Reference		B11SMF1
	-	
Type of sample		Material
Date analysed	-	1/06/2016
Mass / Dimension of Sample	-	110x50x5mm
Sample Description	-	A)Grey rope B)Vitreous fibrous material
Asbestos ID in materials	-	A) Chrysotile asbestos detected Organic fibres detected B) No asbestos detected Synthetic mineral fibre detected

Envirolab Reference: 147470

Revision No: R 00

Lead in Paint						
Our Reference:	UNITS	147470-46	147470-47	147470-48	147470-49	147470-50
Your Reference		B1P1	B1P2	B1P3	B2P1	B3P1
	-					
Type of sample		Paint	Paint	Paint	Paint	Paint
Date prepared	_	27/06/2016	27/06/2016	27/06/2016	27/06/2016	27/06/2016
Date analysed	_	30/05/2016	30/05/2016	30/05/2016	30/05/2016	30/05/2016
	0//					
Lead in paint	%w/w	0.2	0.3	<0.05	<0.05	<0.05
Lead in Paint						
Our Reference:	UNITS	147470-51	147470-52	147470-53	147470-54	147470-55
Your Reference		B3P2	B4P1	B4P2	B5P1	B5P2
Tour Neierense	_	2012	5-11 1	D-11 2	Doi 1	Boi 2
Type of sample		Paint	Paint	Paint	Paint	Paint
Date prepared	-	27/06/2016	27/06/2016	27/06/2016	27/06/2016	27/06/2016
Date analysed		30/05/2016	30/05/2016	30/05/2016	30/05/2016	30/05/2016
-	0//					
Lead in paint	%w/w	<0.05	6.0	1.7	<0.05	<0.05
Lead in Paint						
Our Reference:	UNITS	147470-56	147470-57	147470-58	147470-59	147470-60
Your Reference		B5P3	B5P4	B5P5	B6P1	B6P2
Tour Neierenee	_	2010	BOI 4	Boi o	Doi 1	5012
Type of sample		Paint	Paint	Paint	Paint	Paint
Date prepared	-	27/06/2016	27/06/2016	27/06/2016	27/06/2016	27/06/2016
Date analysed	_	30/05/2016	30/05/2016	30/05/2016	30/05/2016	30/05/2016
Lead in paint	%w/w	5.0	0.1	0.2	0.3	4.0
Load III paint	70 117 11	0.0	0.1	0.2	0.0	1.0
Lead in Paint						
Our Reference:	UNITS	147470-61	147470-62	147470-63	147470-64	147470-65
Your Reference		B7P1	B7P2	B9P1	B9P2	B10P1
	-					
Type of sample		Paint	Paint	Paint	Paint	Paint
Date prepared	-	27/06/2016	27/06/2016	27/06/2016	27/06/2016	27/06/2016
Date analysed	_	30/05/2016	30/05/2016	30/05/2016	30/05/2016	30/05/2016
Lead in paint	%w/w	2.2	0.3	3.9	<0.05	<0.05
Load III paint	/U WV / WV		1 0.0	1 0.0	-5.05	-0.00
Lead in Paint						
Our Reference:	UNITS	147470-66	147470-67	147470-68	147470-69	147470-70
Your Reference		B11P1	B12P1	B12P2	B13P1	B13P2
	-					
Type of sample		Paint	Paint	Paint	Paint	Paint
Date prepared	-	27/06/2016	27/06/2016	27/06/2016	27/06/2016	27/06/2016
Date analysed	_	30/05/2016	30/05/2016	30/05/2016	30/05/2016	30/05/2016
Lead in paint	%w/w	2.4	<0.05	0.1	<0.05	0.4
Leau III pailit	/U VV / VV	۷.٦	\0.00	0.1	`0.00	0.7

Lead in Paint Our Reference: Your Reference	UNITS	147470-71 B13P3	147470-72 B13P4	147470-73 B13P5	147470-74 B14P1	147470-75 B14P2
Type of sample		Paint	Paint	Paint	Paint	Paint
Date prepared	-	27/06/2016	27/06/2016	27/06/2016	27/06/2016	27/06/2016
Date analysed	-	30/05/2016	30/05/2016	30/05/2016	30/05/2016	30/05/2016
Lead in paint	%w/w	1.8	<0.05	0.1	1.9	3.3

Method ID	Methodology Summary
ASB-001	Asbestos ID - Qualitative identification of asbestos in bulk samples using Polarised Light Microscopy and Dispersion Staining Techniques including Synthetic Mineral Fibre and Organic Fibre as per Australian Standard 4964-2004.
Metals-004	Digestion of Paint chips/scrapings/liquids for Metals determination by ICP-AES/MS and or CV/AAS.

Envirolab Reference: 147470 Page 8 of 11

Revision No: R 00

					-,							
QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results		Spike Sm#	Spike 9			
Lead in Paint						Base II Duplicate II %F	RPD					
Date prepared	-			27/06/2 016	147470-61	27/06/2016 27/06/	/06/2016 27/06/2016		27/06	6/2016		
Date analysed	-			30/05/2 016	147470-61	30/05/2016 30/05/2016		LCS-5	30/05	5/2016		
Lead in paint	%w/w	0.05	Metals-004	<0.05	147470-61	2.2 2.1 RPD:5		2.2 2.1 RPD:5		LCS-5	10	4%
QUALITYCONTROL	UNIT	S	Dup.Sm#		Duplicate	Spike Sm#		Spike % Reco	very			
Lead in Paint				Base+I	Duplicate + %RF	D						
Date prepared	-		147470-62	27/06/2	2016 27/06/201	6 LCS-6		27/05/2010	6			
Date analysed	-		147470-62	30/05/2	2016 30/05/201	6 LCS-6		30/05/2010	6			
Lead in paint	%w/	w	147470-62	0.3	0.4 RPD:29	LCS-6		102%				
QUALITYCONTROL	UNIT	S	Dup.Sm#		Duplicate		•			•		
Lead in Paint				Base+I	Duplicate + %RF	D						
Date prepared	-		147470-69	27/06/2	2016 27/06/201	6						
Date analysed	-		147470-69	30/05/2	2016 30/05/201	2016						
Lead in paint	%w/	w	147470-69	<	0.05 <0.05							

Report Comments:

Sample 147470-36 & 76; The supplied sample was sub-sampled (A & B) in order to accurately report the analytical results representative of the entire sample, as per AS4964-2004.

Asbestos ID was analysed by Approved Identifier: Paul Ching Asbestos ID was authorised by Approved Signatory: Paul Ching

INS: Insufficient sample for this test PQL: Practical Quantitation Limit NT: Not tested

NR: Test not required RPD: Relative Percent Difference NA: Test not required

Envirolab Reference: 147470 Page 10 of 11 Revision No: R 00

Quality Control Definitions

Blank: This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.

Duplicate: This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.

Matrix Spike: A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

LCS (Laboratory Control Sample): This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Surrogate Spike: Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Envirolab Reference: 147470 Page 11 of 11

Revision No: R 00



Project I Project I DP Con Prior Sto	No: tact Perso	on:	81251.13 Michael Gaw	Material Assessi vn					12 Ashley Chatswood Ph: 02 991	NSW 2067				
	Sample						Analytes	/ ((())						
Sample ID	Type P-paint F- fibrous sheeting S - Synthetic fibre	Lab ID	Asbestos	Lead in Paint					·					Notes
B1A1	F	1	×									Envirela		es
B1A2	F	2	×		1		-			ENVÎR	DLAB	12 Chatsweed	Ashley NSW 20	5t 67
B1A3	F	3	×			1 2				Job		Ph: (02)	9910 62	20
B1A4	F	4	×			1					1	4747 ived: 27	N	
B1A5	F	5	×							Time	Rece		30	
B1A6	F	6	×					T ₂		Tem	: Co	ol/Ambient e/Icepack	_	
B1A7	F	7	×									tact/Broken/	None	i de s
B3A1	F	8	×								16			
ВЗАЗ	F	9	×											
B4A1	F	10	×		*									
PQL(S)	mg/kg													
PQL (W)	mg/L													
PQL = practical quantitation limit, *As per Laboratory Method Detection Limit Date relinquished: 15/3/16 Total number of samples in container: 76 Results required by: Standard turnaround						SAMPLES RECEIVED Please sign and date to acknowledge receipt of samples and return by fax Signature: Date: Lab Ref: Send results to: Douglas Partners Pty L Address: 15 Callistemo Warabrook NSW 2304 Fax:						stemon Cl	ose	
						Date:	Lab F	Ref:		Fax:				



Project I Project I DP Cont Prior Sto	No: tact Person:	81251.13 . Michael G	awn				To:	Envirolab 12 Ashley Chatswoo Ph: 02 99	Street d NSW 2 10 6200	067				
	Sample					Ana	alytes							
Sample D	Type P-paint F- fibrous sheeting S – Synthetic fibre	Lab ID	Asbestos	Lead in Paint	Synthetic Mineral Fibre	2							Notes	
B4A2	F	11	×											
B4A3	F	12	×			0								
B4A4	F	13	×										S = -	
B4A5	F	14	×											
B4A6	F	15	×											
B4A7	F	16	x , ,		,								b.,	
B5A1	F	17	×		- 4	1								
B6A1	F	18	×									A		
B7A1	F	19	×											
B7A2	F	20	×										£	
PQL (S)	mg/kg													
PQL (W)	mg/L													
PQL = practical quantitation limit, *As per Laboratory Method Detection Limit Date relinquished: 26/5/16 Total number of samples in container:76 Results required by: Standard turnaround						SAMPLES RECEIVED Please sign and date to acknowledge receipt of samples and return by fax Signature: Date: 27 5 Lab Ref: 147470					Send results to: Douglas Partners Pty Ltd Address: 15 Callistemon Close Warabrook NSW 2304 Fax:			
						X 1						, p		



o: ct Person:	81251.13 Michael Ga	wn				To:	12 Ashley S Chatswood Ph: 02 9910	Street NSW 200 0 6200	67				
Sample		1-2			-	Analytes							
		Asbestos	Lead in Paint	Synthetic Mineral Fibre				7					Notes
F	21	×											
F	22	×				^							
S	23	-	27	×									
F	24	×											
F	25	×	4	7 1	×								
F	26	×											
F	27	×		- 9	*			,					
F	28	×			× .								
F	29	×	No.	(2)	1			n = =					
F	30	×											
mg/kg										1887 188			
mg/L													
ished: 26/5/10er of samples in	Detection Detection 6 container:76	tion Limit			Please sig	n and date to samples and	o acknowledge return by fax		Doug Addre	las F ess:	Partn 15 C	ers P	emon Close
	Type P-paint F- fibrous sheeti S – Synthetic fib F F S F F F F F F F F F al quantitation lirished: 26/5/10 or of samples in	ct Person: Michael Ga shelved Sample Type P-paint F- fibrous sheeting S - Synthetic fibre F 21 F 22 S 23 F 24 F 25 F 26 F 27 F 26 F 27	D: 81251.13 ct Person: Michael Gawn age: shelved Sample Lab Type Lab P-paint F F-fibrous sheeting S - Synthetic fibre F 2\forall \times F 22 S 23 F 24 F 25 F 26 F 27 F 29 F 30 mg/kg mg/L al quantitation limit, *As per Laboratory Method Detection Limit ished: 26/5/16	ct Person: Michael Gawn	Sample Type P-paint F-fibrous sheeting S - Synthetic fibre F 2 \ X F 2 - X T 2 - X T 2 - X T 2 - X 2 - X T 2 - X	Sample	Sample	Straight Straight	tot Person: Michael Gawn	Sample Shelved Shelved Shelved Sample Shelved Shelved	Sample Shelved Synthetic Synthetic Synthetic Single Shelved Synthetic Single Shelved Synthetic Synthetic Single Shelved Synthetic Synthetic Single Shelved Synthetic Synthetic Synthetic Synthetic Single Shelved Synthetic Synthetic	Sample S	Sample S



Synthetic Mineral Fibre	Attn: Analytes				Notes
Mineral	Analytes				Notes
	3				
	. v				
Plea rece	ease sign and date to a eipt of samples and re gnature:	eturn by fax	Dougla: Address	s Partners s: 15 Calli	stemon Close
	Ple rec	receipt of samples and re	Please sign and date to acknowledge receipt of samples and return by fax	Please sign and date to acknowledge receipt of samples and return by fax Signature: Douglas Address Warabr	Please sign and date to acknowledge receipt of samples and return by fax Signature: Douglas Partners Address: 15 Calli Warabrook NSW



Project I Project I DP Con Prior Sto	No: tact Person:	81251.13. Michael Ga	awn				To:	12 Ashley Chatswoo Ph: 02 99	od NSW 20 10 6200	067			
	Sample					Ana	lytes						
Sample D	Type P-paint F- fibrous sheeting S – Synthetic fibre	Lab ID	Asbestos	Lead in Paint	Synthetic Mineral Fibre								Notes
B13A2	F	41	×										
B13A3	F	42	×										*
B14A1	F	43	×						****				
B14A2	F	44	×									- ,	
B14A3	F	45	×	1,									
B1P1	Р	46	,	×									
B1P2	Р	47		×									
B1P3	Р	48		×								-	- /
B2P1	Р	49		×									
B3P1	Р	50		×									less of
PQL (S)	mg/kg											12 16	
PQL (W)	mg/L						2						
PQL = practical quantitation limit, *As per Laboratory Method Detection Limit Date relinquished: 26/5/16 Fotal number of samples in container:76 Results required by: Standard turnaround						SAMPLES RECEIVED Please sign and date to acknowledge receipt of samples and return by fax Signature:				Send results to: Douglas Partners Pty Ltd Address: 15 Callistemon Close Warabrook NSW 2304			
			,			Date:27	Lab I	Ref:147	470	Fax:			



Project Name: Hazardous Material Assessment							To:	12 Ashley	od NSW 2				
	Sample					Δn	Attn:						
Sample D	Type P-paint F- fibrous sheeting S – Synthetic fibre	Lab ID	Asbestos	Lead in Paint	Synthetic Mineral Fibre		All y too						Notes
B3P2	Р	51		×									
B4P1	Р	52		×									
B4P2	Р	53		×									
B5P1	Р	54		×									
B5P2	Р	55		×	-								
B5P3	Р	56		×									
B5P4	Р	57		×		*							
B5P5	Р	58		×									
B6P1	Р	59		×									
B6P2	Р	60		×									
PQL (S)	mg/kg											\dagger	
PQL (W)	mg/L			- 8 %									
Date relind Total num	ctical quantitation lin quished: 26/5/16 ber of samples in quired by: Standa	Dete 6 container:7	6			SAMPLES R Please sign a receipt of sai Signature: Date:27	and date to mples and re	eturn by fax	, ,	Doug Addre	results las Part ess: 15 brook N	tners P Calliste	emon Close



Project No: 81 DP Contact Person: Mic		awn				To:	Envirolab Services Pty Ltd 12 Ashley Street Chatswood NSW 2067 Ph: 02 9910 6200					
Sample					Ana	alytes						
Type P-paint		Asbestos	Lead in Paint	Synthetic Mineral Fibre								Notes
Р	61		×									
Р	62		×									
Р	63		×									
Р	64		×									
Р	65		×									
Р	66		×									
Р	67		×									
Р	68		×	_								
Р	69		×			-						
Р	70		×									
mg/kg												
mg/L												
PQL = practical quantitation limit, *As per Laboratory Method Detection Limit Date relinquished: 26/5/16 Total number of samples in container:76 Results required by: Standard turnaround					SAMPLES RECEIVED Please sign and date to acknowledge receipt of samples and return by fax Signature: Date:			emon Close				
	No: tact Person: brage: Sample Type P-paint F- fibrous sheeting S - Synthetic fibre P P P P P P P P P P P P P P P P P P	No: 81251.13. tact Person: Michael G shelved Sample Type P-paint F- fibrous sheeting S - Synthetic fibre P 63 P 63 P 64 P 66	No: 81251.13	No: 81251.13	No:	No: 81251.13	No: 81251.13	No:	No: 81251.13 12 Ashley Street Chatswood NSW 20 Ph: 02 9910 6200	No: 81251.13	No: 81251.13 12 Ashley Street Chatswood NSW 2067 Ph: 02 9910 6200	No: 81251.13



Project Name: Project No: DP Contact Person: Prior Storage:		81251.13 Michael G	Hazardous Material Assessment To: Envirolab Services Pty Ltd 81251.13 12 Ashley Street Michael Gawn Chatswood NSW 2067 shelved Ph: 02 9910 6200 Attn:										
	Sample					Ana	lytes		1777				
Sample D	Type P-paint F- fibrous sheet S – Synthetic fib		Asbestos	Lead in Paint	Synthetic Mineral Fibre								Notes
B13P3	Р	71		×									
B13P4	Р	72	2	×									
B13P5	Р	73	Š	×									
B14P1	Р	74		×									
B14P2	Р	75	5	×									
B11SMF1	S	78	>		×								
			-										
							-						
			2						A.				
PQL (S)	mg/kg												
PQL (W)	mg/L												
Date relinqui Total numbe		Dete 16n container: 7	76	ethod		receipt of sa	and date tamples and	to acknowledge d return by fax	70	Doug Addre	ess: 15	rtners F	temon Close

Appendix D

Drawing 3-1 Survey Area Building 10

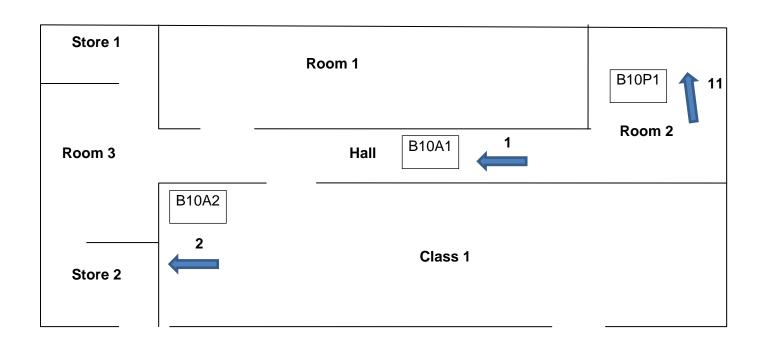
Drawing 3-2 Survey Area Building 11

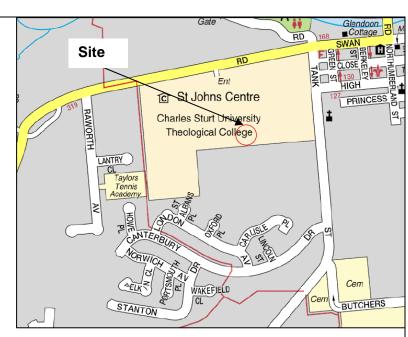
Drawing 3-3 Survey Area Building 12

Drawing 3-4 Survey Area Building 13

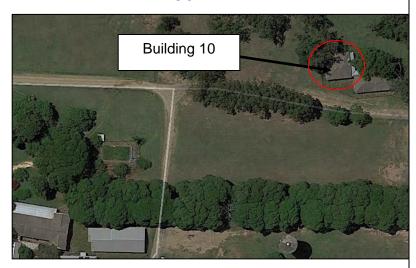
Drawing 3-5 Survey Area Building 14







LOCALITY PLAN



Aerial View of Site

Legend:

P(x)

Approximate location and number of tested paint sample

B(x)A(x) Approximate location and number of tested possible asbestos containing material sample



Photo direction and number



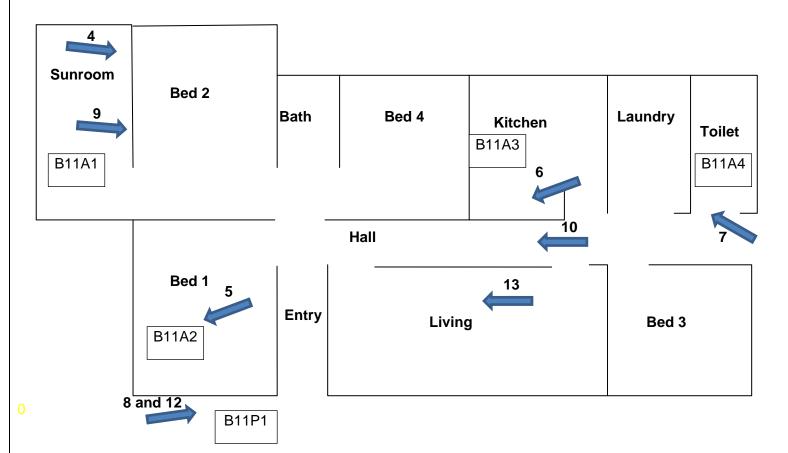
CLIENT:	Lend Lease Retirement Living					
OFFICE:	Newcastle	DRAWN BY:	MPG			
SCALE:	NTS	DATE:	29.04.16			

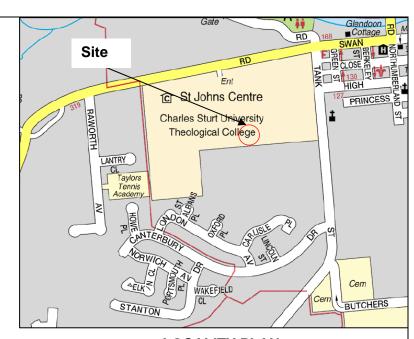
TITLE: Survey Area **Hazardous Material Assessment Building 10, Closebourne Village, Morpeth**



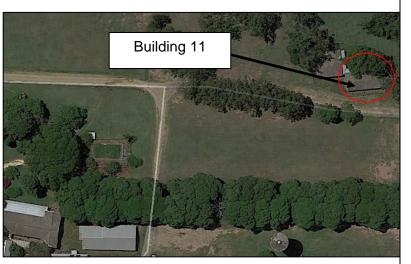
PROJECT No:	81251.13
DRAWING No:	3-1
REVISION:	0







LOCALITY PLAN



Aerial View of Site



P(x)

Approximate location and number of tested paint sample

B(x)A(x)

Approximate location and number of tested possible asbestos containing material sample

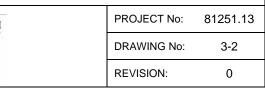


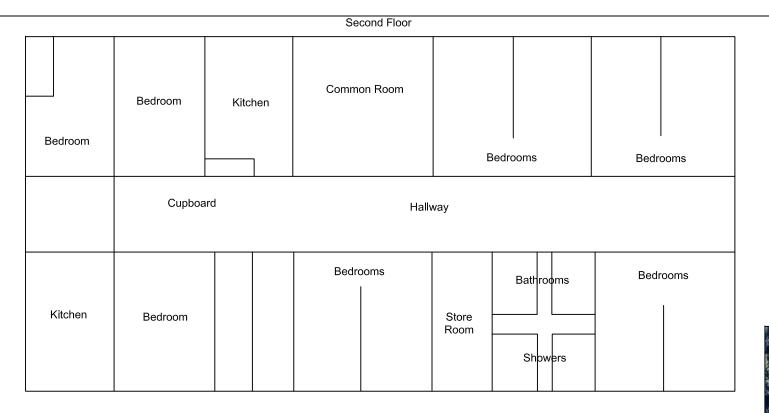
Photo direction and number

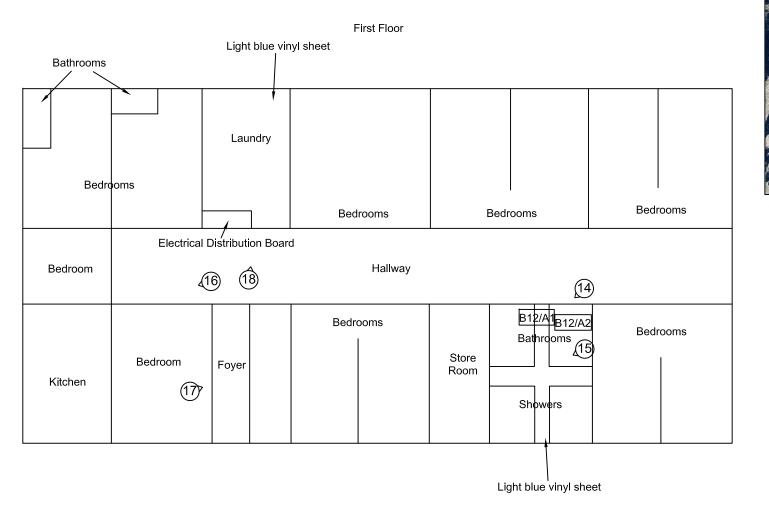


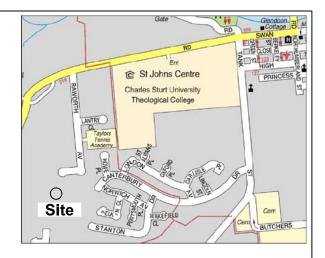
CLIENT:	Lend Lease Retirement Living					
OFFICE:	Newcastle	DRAWN BY:	MPG			
SCALE:	NTS	DATE:	29.04.16			

TITLE: Survey Area
Hazardous Material Assessment
Building 11, Closebourne Village, Morpeth









Locality Plan



Aerial View of Site

LEGEND

B3/A1 Sample Location

———Approximate Location of Eaves

(10) Photo Locations and Orientation (approx.)

NOTES

1. Test locations are approximate only and are shown with reference to existing site features.



CLIENT: Lend Lease Retirement Living

OFFICE: Newcastle DRAWN BY: PLH

SCALE: NTS DATE: 31.08.2016

TITLE: Survey Area - Building 12
Hazardous Material Assessment
Closebourne Village, Morpeth



PROJECT No: 81251.13

DRAWING No: 3-3

REVISION: 0





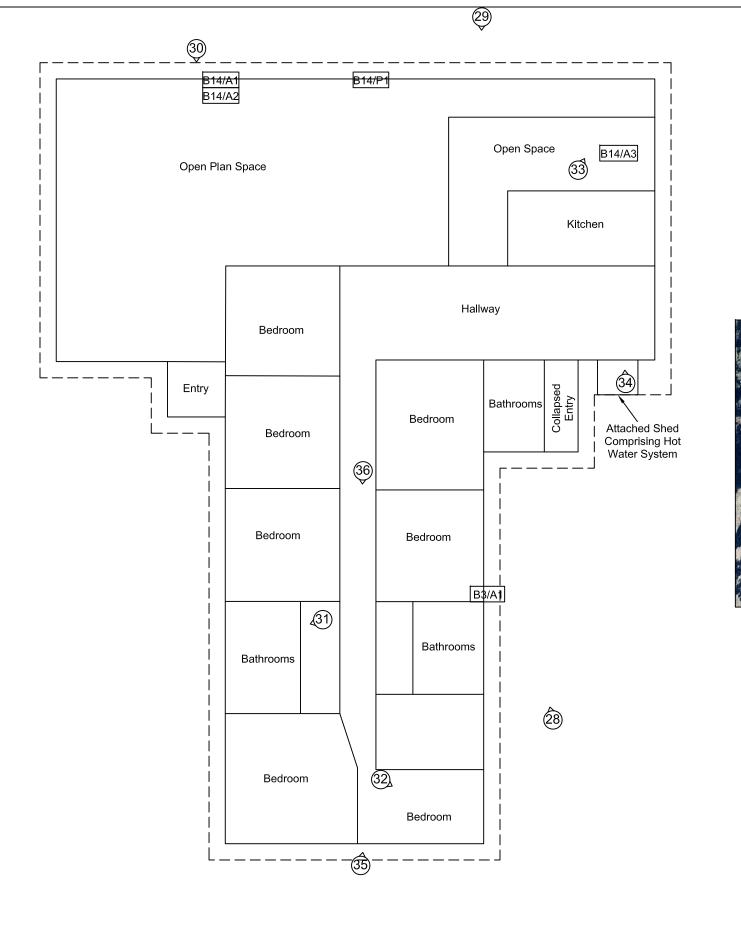
OLILIVI.	Edita Edado I ta	All official Elving	
OFFICE:	Newcastle	DRAWN BY:	MPG
SCALE:	NTS	DATE:	29.04.16

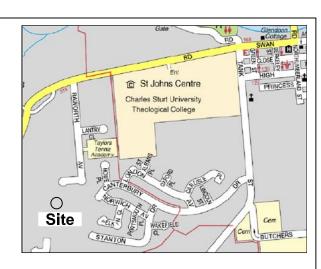
E: Survey Area

Hazardous Material Assessment

Building 13, Closebourne Village, Morpeth

PROJECT No.	01231.13
DRAWING No:	3-4
REVISION:	0





Locality Plan



Aerial View of Site

LEGEND

B3/A1 Sample Location

———Approximate Location of Eaves

(10) Photo Locations and Orientation (approx.)



1. Test locations are approximate only and are shown with reference to existing site features.

NOTES

CLIENT: Lend Lease Retirement Living

OFFICE: Newcastle DRAWN BY: PLH

SCALE: NTS DATE: 31.08.2016

TITLE: Survey Area - Building 14
Hazardous Material Assessment
Closebourne Village, Morpeth



PROJECT No:	81251.13
DRAWING No:	3-5
REVISION:	0