

REPORT TO

MANLY PROPERTY GROUP NO.2 PYT LTD ATF MANLY UNIT TRUST NO.2

ON

HAZARDOUS BUILDING MATERIALS SURVEY

FOR

PROPOSED DEMOLITION WORKS

AT

27 EAST ESPLANADE, MANLY, NSW

Date: 9 July 2025 Ref: E37718PLrpt-HAZ

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For and on behalf of JKE PO BOX 976 NORTH RYDE BC NSW 1670

DOCUMENT REVISION RECORD

| Report Reference | Report Status | Report Date |
|------------------|---------------|-------------|
| E37718PLrpt-HAZ | Final Report | 9 July 2025 |
| | | |
| | | |

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Abbreviations

| Asbestos Containing Material | ACM |
|---|------|
| Chain of Custody | COC |
| JK Environments | JKE |
| National Association of Testing Authorities | NATA |
| Personal Protective Equipment | PPE |
| Polychlorinated Biphenyls | PCB |
| Practical Quantitation Limit | PQL |
| Synthetic Mineral Fibre | SMF |



1 INTRODUCTION

Manly Property Group No.2 Pty Ltd ATF Manly Unit Trust No.2 ('the client') commissioned JK Environments (JKE) to undertake a hazardous building materials survey for the proposed demolition at 27 East Esplanade, Manly, NSW ('the site'). The site location is shown on Figure 1 and the survey was confined to the site boundaries as shown on Figure 2 attached in the appendices.

This document was prepared specifically for the proposed site development works and should not be considered a hazardous building materials management plan or removal control plan.

The document does not contain information regarding an assessment of risk, safe work procedures or control measures associated with hazardous building materials. In the event that hazardous building materials remain within the building at the site a hazardous building materials management plan must be prepared.

1.1 Proposed Development Details

The proposed development includes demolition of the existing three-storey residential apartment building.

1.2 Scope of Work

The survey was undertaken generally in accordance with a JKE proposal (Ref: EP71994PL2-HAZ) of 11 June 2025 and written acceptance from the client of 24 June 2025. The scope of work included the following:

- A detailed inspection of the existing building and structures shown on Figure 2;
- Sampling of representative materials in accordance with the assessment criteria and inspection procedure outlined in Section 4;
- Documentation of inspection finds including sample location, material type, condition, friability, photographic evidence and site location;
- Laboratory analysis of selected representative materials; and
- Preparation of a report presenting the results of the hazardous building materials survey.



2 SITE DESCRIPTION

Field work for this survey was undertaken on the 30 June 2025. The site description at the time of the field work is outlined below. The site location is shown on Figure 1 and the site layout plan is shown on Figure 2.

The site is located on the eastern side of East Esplanade, Manly, NSW. The site generally consists of a three-storey residential apartment building with an underground carpark. The building was of brick and concrete construction with brick external and internal walls, fibre cement eaves, concrete floors, and a metal roof.

The building contained Units 5 and 6 on the ground floor, Units 2 and 3 on the first floor and Unit 4 on the second floor. The building did not contain a Unit 1. The car park was located beneath the ground floor and was accessed from a driveway off East Esplanade.

The original building was constructed in the 1980s, however, an internal refurbishment has occurred more recently.



3 REGULATORY BACKGROUND INFORMATION

All work associated with the inspection and reporting of hazardous building materials is generally undertaken in accordance with the following legislation, guidelines and standards:

Table 3-1: Guidelines / Documents

GUIDELINES / REGULATIONS / DOCUMENTS

Asbestos

Code of Practice How to Manage and Control Asbestos in the Workplace, Safe Work NSW, December 2022

Code of Practice How to Safely Remove Asbestos, Safe Work NSW, December 2022

SMF

National Standard for the Safe Use of Synthetic Mineral Fibres [National Occupational Health and Safety Commission:1004 (1990)]

National Code of Practice for the Safe Use of Synthetic Mineral Fibres [National Occupational Health and Safety Commission:2006 (1990)]

Code of Practice for the Safe Use of Synthetic Mineral Fibres, WorkCover: 1993.

Lead

Guide to Lead Paint Management - Part 2: Residential and Commercial Buildings, Australian Standard AS4361.2, 1998

Guide to Hazardous Paint Management, Part 2: Lead Paint in Residential, Public and Commercial Buildings, Australian Standard AS4361.2, 2017

PCBs

Identification of PCB-Containing Capacitors, Australian and New Zealand Environment and Conservation Council (ANZECC), 1997

General

Work Health and Safety Act 2011 (NSW)

Work Health and Safety Regulation 2017 (NSW)

The Demolition of Structures, Australian Standard AS2601 (2001)



4 ASSESSMENT CRITERIA AND INSPECTION PROCEDURE

The survey included a visual inspection of the building, sampling and laboratory analysis as described in the following sections.

4.1 Asbestos Fibre Containing Materials

Representative samples of construction materials identified as potentially containing asbestos were obtained using hand tools by personnel wearing suitable personal protective equipment (PPE). The samples were placed in sealed plastic bags and labelled with a unique job number, sampling location and date. All samples were recorded on the chain of custody (COC) record presented in Appendix C.

Following the completion of the field inspection, the samples were forwarded to a National Association of Testing Authorities (NATA) registered laboratory, Envirolab Services Pty Ltd (NATA Accreditation No. 2901), for analysis. The asbestos samples were analysed using stereo and polarising light microscopy methods with dispersion staining techniques.

4.2 Lead Containing Materials

Representative samples of deteriorated paint films and accumulated dust that potentially contain elevated lead concentrations were obtained using hand tools by personnel wearing suitable PPE.

Only significantly deteriorated paint systems that are considered likely to impact on demolition practices or that are considered a health or environmental hazard were sampled and recorded.

The paint flakes obtained included all layers of paint on a particular surface and so are considered to be composites of the materials at each location. The paint flake samples were placed in sealed plastic bags and labelled with a unique job number, sampling location and date. All samples were recorded on the COC record presented in Appendix C.

In accordance with the Australian Standard AS4361.2, 2017 "Guide to Hazardous Paint Management, Part 2: Lead Paint in Residential, Public and Commercial Buildings, a lead in paint concentration greater than 0.1% w/w is considered to be lead based paint.

Settled dust sampling involved the collection of settled dust from a known surface area by wet wipe. The area should preferably be $0.09m^2$ (which corresponds to an area $30 \text{ cm} \times 30\text{cm}$) and in any event not less than $0.01m^2$, depending on the amount of dust present. A non-alcoholic moistened wipe is folded to form a firm swab. The swab is placed flat onto the surface in one corner of the area to be sampled and rubbed across the entire area in an 'S' pattern. The wipe is re-folded so that the collected dust is on the inside and is again rubbed across the area at 90° to the first 'S'. The wipe is again folded with the dust inside and placed in the sterile sample container.

The lead concentration per m² is calculated using the equation ($\mu g/swab \div 0.09$) $\div 1000$.





Following the completion of the field inspection, the samples were forwarded to a NATA registered laboratory for analysis. Analysis for lead content is performed using a nitric and hydrochloric acid digest followed by ICP-AES (Inductively Coupled Plasma – Atomic Emission Spectroscopy) quantification methods.

The result, when received from the laboratory, is converted to milligrams, and then divided by the area sampled (in square metres) to give a lead loading expressed in mg/m².

4.2.1 Lead Materials Assessment Criteria

As stated above, a lead in paint concentration greater than 0.1% w/w is considered to be lead based paint.

In the absence of current published lead levels in dust, the acceptance level of 8 mg/m² for exterior surfaces as published in *Australian Standard AS4361.2, 1998 Guide to Lead Paint Management - Part 2: Residential and Commercial Buildings*, is considered the most appropriate guideline for comparison for lead in ceiling dust, and has been adopted for the assessment.

4.3 Polychlorinated Biphenyls (PCBs) Containing Electrical Equipment

The major use of PCBs in the electrical industry has been inside transformers and capacitors. Transformers may include relatively small transformers inside electrical mains/fuse cabinets. Capacitors containing PCBs were installed in numerous types of fluorescent light fittings during the 1950's, 60's and 70's.

Representative samples of each type of electrical equipment identified within the existing structure were visually examined to assess whether the equipment is insulated with PCBs. Details on the make, type, capacitance, dimensions, date and power were recorded and checked with the ANZECC database of known PCB containing electrical equipment and the results of the review were noted.

4.4 Synthetic Mineral Fibre Containing Materials

Construction materials identified as potentially containing synthetic mineral fibre (SMF) were examined by site personnel and their location was noted. In the event that the materials were suspected to contain asbestos fibres, representative samples were obtained using hand tools by personnel wearing suitable PPE. The material samples were placed in sealed plastic bags and labelled with a unique job number, sampling location and date. All samples were recorded on the COC record presented in Appendix C.

Following the completion of the field inspection, the samples were forwarded to a NATA registered laboratory for asbestos fibre analysis. The samples were analysed using stereo and polarising light microscopy methods with dispersion staining techniques.



5 RESULTS OF THE INSPECTION

The results of the inspection and subsequent laboratory analysis are summarised in the following sections. For specific locations and details of materials identified during the inspection, please refer to the Hazardous Building Materials Register in Appendix B and the laboratory analysis report in Appendix C.

5.1 Asbestos

Asbestos containing materials were identified within the interior of the garage and hallways and the exterior eaves of the existing building at the site at the time of the inspection. Both bonded and potentially friable asbestos containing materials were encountered at the site.

Potentially friable asbestos containing materials were identified in the form of core insulation within fire doors, and insulation within electrical fuses at the time of the inspection.

Refer to Section 6.1 of this report for recommendations on asbestos and the Hazardous Building Materials Register for details of material sampled and inspected for asbestos.

5.2 Lead in Paint

Not identified within the scope and limitations of the report.

5.3 Lead in Accumulated Dust

Not identified within the scope and limitations of the report.

5.4 Polychlorinated Biphenyls (PCBs)

Fluorescent light fittings potentially housing PCB containing capacitors were identified within the garage and Unit 2. The fittings were visually inspected at the time of the inspection. Refer to Section 6.4 of this report for recommendations on PCBs.

5.5 Synthetic Mineral Fibre (SMF)

Materials containing SMF were identified in the form of internal insulation of hot water heaters. All materials were in good condition at the time of the inspection. Refer to Section 6.5 of this report for recommendations on SMF containing materials.

5.6 Site Access Limitations

Some areas on site were inaccessible during the time of inspection, and hence were not inspected. These areas included the internal areas of Unit 6 (which was locked and could not be accessed), and the ceiling space and the roof due to height restrictions. Access throughout the remainder of the site was generally unrestricted within the scope and limitations of the report.





6 COMMENTS AND RECOMMENDATIONS

6.1 Asbestos Materials

Asbestos fibre containing construction materials have been identified within the interior and the exterior of the existing building and structures at the site. Prior to demolition or refurbishment work this document must be provided as a register to the demolition/building contractor.

Potentially friable asbestos containing materials were identified in the form of core insulation within fire doors, and insulation within electrical fuses at the time of the inspection. Should these materials be found to contain asbestos, they are considered friable. Any materials presumed to contain asbestos must be treated as such.

The doors and electrical fuses were all in good condition at the time of the inspection and can remain in-situ in this condition. These items should not be tampered with or damaged prior to a time when sampling occurs. The potentially friable asbestos containing materials should either be treated and removed as containing asbestos; or should be sampled to confirm whether or not the material contains asbestos fibres.

All works associated with the disturbance and removal of bonded asbestos containing materials must be undertaken by a Licenced *Class B* Asbestos Removalist.

As potentially friable asbestos has been identified on site, all works associated with the disturbance and removal of friable asbestos containing materials must be undertaken by a Licenced *Class A* Asbestos Removalist.

The asbestos removalist must prepare an Asbestos Removal Control Plan for the proposed works. The control plan should include an allowance for asbestos air fibre monitoring during the removal and thorough clean up works upon completion of the removal works.

An asbestos management plan must be prepared for the proposed works in areas containing asbestos. A clearance inspection must be undertaken on completion of works and prior to any other construction activities being undertaken.

If previously unidentified materials (suspected of containing asbestos) are identified during the demolition phase, works should cease and the material should be inspected and classified by an experienced consultant. The area should be isolated and barricaded until the material has been classified as non-hazardous or removed and the area cleared.

All asbestos containing materials (and materials presumed to contain asbestos) must be removed in accordance with the regulations and codes outlined in Section 3 and by an experienced asbestos removal contractor.



6.2 Lead in Paint

Not identified within the scope and limitations of the report.

6.3 Lead in Accumulated Dust

Not identified within the scope and limitations of the report.

6.4 PCB Containing Electrical Equipment

Representative samples of each major type of fluorescent light fitting were visually inspected to determine which lights are fitted with PCB containing ballast capacitors.

Light fittings potentially housing a PCB containing metal capacitor were identified in garage and Unit 2. PCBs are a scheduled waste with strict guidelines regarding transport and handling. PCB work is to be conducted in accordance with the Environmental Protection & Heritage Council's *Polychlorinated Biphenyls Management Plan*, Revised Edition April 2003. This briefly includes:

- Prior to demolition when the power is disconnected, inspect the light fittings;
- Metal PCB containing capacitors are to be removed, placed in plastic lined 200 litre drums and disposed
 of as PCB Scheduled Waste. Any light fitting that shows signs of oil staining from capacitors is to be
 disposed of as PCB contaminated;
- Protective clothing including eye protection, PCB resistant gloves and overalls are to be worn;
- Contaminated gloves and disposable coveralls are to be disposed of as PCB contaminated waste; and
- Contractors licenced to transport and handle PCBs must be used for transport and disposal.

If any metal cased capacitors are found during demolition works that were previously unidentified, they should be treated as containing PCBs. Details on storing, conveying and disposing of PCB material or PCB wastes can be found in *Polychlorinated Biphenyls Management Plan*, Environmental Protection & Heritage Council, Revised Edition April 2003.

6.5 SMF Materials

Sources of SMF containing materials are present as internal insulation material within hot water units. These SMF materials were in a stable condition at the time of the site inspection.

All SMF containing materials must be removed in accordance with the national Standard and code outlined in Section 3 and by an experienced hazardous materials removal contractor.



7 LIMITATIONS

The conclusions developed in this report are based on site conditions which existed at the time of the site survey. They are based on investigation of conditions at specific locations, chosen to be as representative as possible under the given circumstances, and visual observations of the site and vicinity, together with the interpretation of available documents reviewed as described in this report.

Surveys are conducted in a conscientious and professional manner. The nature of the task however, and the likely disproportion between any damage or loss which might arise from the work or reports prepared as a result, and the cost of our services, is such that JKE cannot guarantee that all hazardous building materials have been identified and/or addressed.

Due to the possibility of renovations and additions to the building structures over time, hazardous building materials may have been hidden behind new walls and ceilings. Such areas were inaccessible during the inspection. If any suspect materials are found during further renovation of the buildings, the material should be sent for identification and expert advice sought.

Therefore, while we carry out the work to the best of our ability, we totally exclude any loss or damages which may arise from services we have provided to our client and/or any other associated parties.

Unless specifically noted, the survey did not cover:

- Hidden and/or inaccessible locations such as in or under concrete slabs, wall cavities, hidden storage areas and the like;
- In accessible/unidentified shafts, cavities and the like;
- Air conditioning, heating, mechanical, electrical or other equipment;
- General exterior ground surfaces and subsurface areas e.g. asbestos in fill/soil;
- Materials dumped, hidden, or otherwise placed in locations which one could not reasonably anticipate;
- Materials other than normal building fabric, materials in laboratories or special purpose facilities and building materials that cannot be reasonably and safely assessed without assistance;
- Areas where access was limited during the time of the site inspection as outlined in Section 6; and
- Materials other than asbestos, lead, PCBs and SMF are generally outside the scope as identification can require specialised analysis/inspection techniques.

Where other potentially hazardous materials are identified these are normally reported on to the best of the consultant's ability. Analysis is not normally included and there is no guarantee that all such materials have been identified and/or addressed.

All work conducted and reports produced by JKE are prepared for a particular Client's objective and are based on a specific scope, conditions and limitations, as agreed upon between JKE and the Client. Information and/or report(s) prepared by JKE may therefore not be suitable for any use other than the intended objective. No parties other than the Client should use any information and/or report(s) without first conferring with JKE.





Before passing on to a third party any information and/or report(s) prepared by JKE, the Client is to inform fully the third party of the objective and scope, and all limitations and conditions, including any other relevant information which applies to the information and/or report(s) prepared by JKE.

It is the responsibility of third parties to investigate fully to their satisfaction if any information and/or report(s) prepared by JKE are suitable for a specific objective. The report(s) and/or information produced by JKE should not be reproduced and/or presented/reviewed except in full.

This report has been prepared for the particular project described and no responsibility is accepted for the use of any part of this report in any other context or for any other purpose. Copyright in this report is the property of JKE. JKE has used a degree of care, skill and diligence normally exercised by consulting engineers in similar circumstances and locality. No other warranty expressed or implied is made or intended. Subject to payment of all fees due for the investigation, the client alone shall have a licence to use this report.

If you have any questions concerning the contents of this report please do not hesitate to contact us.



Important Information About This Report

These notes have been prepared by JKE to assist with the assessment and interpretation of this report.

The Report is based on a Unique Set of Project Specific Factors

This report has been prepared in response to specific project requirements as stated in the JKE proposal document which may have been limited by instructions from the client. This report should be reviewed, and if necessary, revised if any of the following occur:

- The defined subject site is increased or sub-divided; or
- Ownership of the site changes.

JKE will not accept any responsibility whatsoever for situations where one or more of the above factors have changed since completion of the assessment. If the subject site is sold, ownership of the assessment report should be transferred by JKE to the new site owners who will be informed of the conditions and limitations under which the assessment was undertaken. No person should apply an assessment for any purpose other than that originally intended without first conferring with the consultant.

Misinterpretation of Site Assessments by Design Professionals

Costly problems can occur when other design professionals develop plans based on misinterpretation of an assessment report. To minimise problems associated with misinterpretations, the environmental consultant / asbestos assessor should be retained to work with appropriate professionals to explain relevant findings and to review the adequacy of plans and specifications relevant to hazardous building materials.

Read Responsibility Clauses Closely

Because an environmental site assessment is based extensively on judgement and opinion, it is necessarily less exact than other disciplines. This situation has resulted in wholly unwarranted claims being lodged against consultants. To help prevent this problem, model clauses have been developed for use in written transmittals. These are definitive clauses designed to indicate consultant responsibility. Their use helps all parties involved recognise individual responsibilities and formulate appropriate action. Some of these definitive clauses are likely to appear in the environmental site assessment, and you are encouraged to read them closely. Your consultant will be pleased to give full and frank answers to any questions.



Appendix A: Report Figures



JKEnvironments

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This plan should be read in conjunction with the Environmental report.



This plan should be read in conjunction with the Environmental report.

JKEnvironments

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Appendix B: Hazardous Building Materials Register



| 27 East Esplanade, Manly, NSW Hazardous Building Materials Register - June 2025 | | | | | | | | | |
|---|-----------------------|---------------------------|--|------------------|---------------------------|------|--|--------------------------------|---|
| Location | Material Type | Sample ID | Laboratory result | Condition | Friable / Non- Friable | | Recommendation | Is the area accessible | Photograph |
| | | | | ASBESTOS MATE | RIALS | | | | |
| Building interior, Unit 2, Kitchen and Laundry, Ceiling lining | Fibre Cement Sheeting | ASB1 | No asbestos detected: Organic fibres detected | - | - | - | - | - | - |
| Building interior, Unit 2, Bathroom, Ceiling lining | Fibre Cement Sheeting | Same as ASB1 | No asbestos detected: Organic fibres detected | - | - | - | - | - | - |
| Building interior, Unit 2, Bedrooms, hallway, living room, Ceiling | Vermiculite | ASB2 | No asbestos detected: Organic fibres detected | - | - | - | - | - | - |
| Building exterior, Unit 4, Eaves | Fibre Cement Sheeting | ASB3 | Chrysotile asbestos detected: Organic fibres detected | Generally Intact | Non-Friable | 30m² | Remove prior to refurbishment / demolition by appropriately licensed asbestos removal contractor in accordance with the relevant standard/code of practice/guidelines. | No (access via ladder only) | 5377.48PL 5006.2025.09.35 33.80 (0), 151.286.53 (-12m) Altitude, 36m |
| Building exterior, Unit 4, Eastern extent, Adjacent sunroom, Section of upper external wall | Fibre Cement Sheeting | ASB4 | No asbestos detected: Organic fibres detected | - | - | - | - | - | - |
| Building interior, Garage, Southern extent, Electrical Distribution boards | Fibre Cement Sheeting | NA - Electrical Hazard | Assumed to contain asbestos | Generally Intact | Non-Friable | 2m² | Confirm presence of asbestos through laboratory testing OR assume to contain asbestos and remove prior to refurbishment / demolition by appropriately licensed asbestos removal contractor in accordance with the relevant standard/code of practice/guidelines. | Yes | E37718PL 30.05.2025 09:58 -33.80091, 151.28661 (±15m) Altitude 26m |
| Building interior, Garage, Southern extent, Electrical Distribution boards, fuses | Internal Insulation | NA - Electrical Hazard | Assumed to contain asbestos | Generally Intact | Friable | <1m² | Confirm presence of asbestos through laboratory testing OR assume to contain asbestos and remove prior to refurbishment / demolition by appropriately licensed asbestos removal contractor in accordance with the relevant standard/code of practice/guidelines. | Yes | E37718PL 30.06.2025 09:57 -33.80100, 151.28659 (±78m) Altitude: 27m |

1 of 3 Copyright JK Environments

| Location | Material Type | Sample ID | Laboratory result | Condition | Friable / Non- Friable | Approximate extent | Recommendation | Is the area | Photograph |
|---|---------------------|--|--|------------------------------------|---------------------------|--------------------|--|-------------|--|
| | | | | ASBESTOS MATERIAL | | extent | | accessible | |
| Building interior, Hallway and staircase, Fire doors to Units | Internal Insulation | NA -Inaccesible | Potential to contain asbestos (Unknown date) | Generally Intact | Friable | 5 Units | Confirm presence of asbestos through laboratory testing OR assume to contain asbestos and remove prior to refurbishment / demolition by appropriately licensed asbestos removal contractor in accordance with the relevant standard/code of practice/guidelines. | Yes | E3771 8PL 30 06 2025 09 04 -33 80 95, 151.28 665 (c15m) Altitude: 33m |
| Building interior, Ground floor, Hallway, Ceiling | Vermiculite | Same a ASB2 | No asbestos detected: Organic fibres detected | - | - | - | - | - | - |
| | | | S | YNTHETIC MINERAL F | IBRE (SMF) | | | | |
| Building interior, Garage, Hot water heaters Building interior, Hallway, Cupboard under staircase, Hot water heaters | Internal Insulation | NA - Electrical Hazard NA - Electrical Hazard | NA - Assumed to contain SMF NA - Assumed to contain SMF | Generally Intact Generally Intact | - | 2 Units | Remove prior to refurbishment / demolition by appropriately licensed hazardous materials contractor in accordance with the relevant standard/code of practice/guidelines. Remove prior to refurbishment / demolition by appropriately licensed hazardous materials contractor in accordance with the relevant standard/code of practice/guidelines. | Yes | E377/8FL 30.66 90 FV 90 57 34-6065 151 28652 (29 m) Aftingle 27 m |
| | | | | LEAD IN PAIN | T | | | | E37718PL 30.06.2025 10:05 -33.80092, 151.28667 (±15m) Altitude: 33m |
| Building Interior, Unit 2, All internal walls | Peeling White Paint | LP1 | 0.01% (less than the criteria of 0.1%) | - | - | - | - | - | - |
| Building interior, Hallway and staircase, Hand railings and Unit doors | Peeling Black Paint | LP2 | 0.02% (less than the criteria of 0.1%) | - | - | - | - | - | - |
| | | | | LEAD IN DUS | т | | | | |
| Building interior, Garage, Floor | Settled Dust | LD1 | 0.11mg/m² (lower than the adopted criteria of 8mg/m²) | - | - | - | - | - | - |

2 of 3 Copyright JK Environments

| Location | Material Type | Sample ID | Laboratory result | Condition | Friable / Non- Friable | Approximate extent | Recommendation | Is the area accessible | Photograph |
|--|---|---------------------------|---|-------------------|---------------------------|--------------------|--|--------------------------------|---|
| | | | | POLYCHLORINATED B | BIPHENYLS | | | | |
| Building interior, Unit 2, Bathroom, Ceiling | Single tube Fluorescent Light fittings | NA - Electrical Hazard | Of an age indicative of housing PCB containing capacitors | Generally intact | NA | 1 Unit | Undertake detailed inspection following isolation of electricity supply, OR Handle in accordance with relevant standard/code of practice/guidelines. | No (access via ladder only) | E37718PL 30.06,2025.09.28 33.86100, 151.28646 (±24m) Altitude: 33m |
| Building interior, Garage, Ceiling | Single tube Fluorescent Light fittings | NA - Electrical Hazard | Of an age indicative of housing PCB containing capacitors | Generally intact | NA | 8 Units | Undertake detailed inspection following isolation of electricity supply, OR Handle in accordance with relevant standard/code of practice/guidelines. | No (access via ladder only) | E37718PL 30.06.2025 09.58 33.80932, 151.28663 (±10m) Altrude: 27m |

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Appendix C: Laboratory Report & COC Documents



Envirolab Services Pty Ltd

ABN 37 112 535 645 12 Ashley St Chatswood NSW 2067 ph 02 9910 6200 fax 02 9910 6201 customerservice@envirolab.com.au www.envirolab.com.au

CERTIFICATE OF ANALYSIS 384642

| Client Details | |
|----------------|--------------------------------------|
| Client | JK Environments |
| Attention | Lewis Robinson |
| Address | PO Box 976, North Ryde BC, NSW, 1670 |

| Sample Details | |
|--------------------------------------|-----------------------------|
| Your Reference | E37718PL, Manly |
| Number of Samples | 4 Material, 2 Paint, 1 Swab |
| Date samples received | 30/06/2025 |
| Date completed instructions received | 30/06/2025 |

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.

| Report Details | | | | | |
|---|--|--|--|--|--|
| Date results requested by | 07/07/2025 | | | | |
| Date of Issue | 07/07/2025 | | | | |
| NATA Accreditation Number 2901. This document shall not be reproduced except in full. | | | | | |
| Accredited for compliance with ISO | /IEC 17025 - Testing. Tests not covered by NATA are denoted with * | | | | |

Asbestos Approved By

Analysed by Asbestos Approved Analyst: Lucy Zhu Authorised by Asbestos Approved Signatory: Lucy Zhu

Results Approved By

Loren Bardwell, Development Chemist Lucy Zhu, Asbestos Supervisor **Authorised By**

Nancy Zhang, Laboratory Manager





| Asbestos ID - materials | | | | | |
|----------------------------|-------|---------------------------------|-------------------------|------------------------------|-----------------------------|
| Our Reference | | 384642-1 | 384642-2 | 384642-3 | 384642-4 |
| Your Reference | UNITS | ASB1 | ASB2 | ASB3 | ASB4 |
| Date Sampled | | 30/06/2025 | 30/06/2025 | 30/06/2025 | 30/06/2025 |
| Type of sample | | Material | Material | Material | Material |
| Date analysed | - | 01/07/2025 | 01/07/2025 | 01/07/2025 | 01/07/2025 |
| Mass / Dimension of Sample | - | 20x20x1mm | 50x40x5mm | 25x20x1mm | 20x15x1mm |
| Sample Description | - | White plaster & fibrous backing | White mica vermiculite | Beige fibre cement material | Beige fibre cement material |
| Asbestos ID in materials | - | No asbestos detected | No asbestos detected | Chrysotile asbestos detected | No asbestos detected |
| | | Organic fibres detected | Organic fibres detected | Organic fibres detected | Organic fibres detected |
| Trace Analysis | - | No asbestos detected | No asbestos detected | [NT] | No asbestos detected |

| Lead in Paint | | | |
|----------------|-------|------------|------------|
| Our Reference | | 384642-5 | 384642-6 |
| Your Reference | UNITS | LP1 | LP2 |
| Date Sampled | | 30/06/2025 | 30/06/2025 |
| Type of sample | | Paint | Paint |
| Date prepared | - | 02/07/2025 | 02/07/2025 |
| Date analysed | - | 03/07/2025 | 03/07/2025 |
| Lead in paint | %w/w | 0.01 | 0.02 |

| Lead in swab | | |
|----------------|---------|------------|
| Our Reference | | 384642-7 |
| Your Reference | UNITS | LD1 |
| Date Sampled | | 30/06/2025 |
| Type of sample | | Swab |
| Date prepared | - | 02/07/2025 |
| Date analysed | - | 03/07/2025 |
| Lead in Swabs | μg/swab | 10 |

| 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-020/021/022 | Digestion of Paint chips/scrapings/liquids for Metals determination by ICP-AES/MS and or CV/AAS. |
| Metals-020/021/022 | Acid digestion of Dust wipes/swabs and /or miscellaneous samples for metals determination by ICP-AES/MS and/or CV-AAS |
| | Submission of low masses of sample e.g. for dust samples, may result in raised PQLs. |

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Revision No: R00

| QUALIT | Duplicate | | | | Spike Recovery % | | | | | |
|------------------|--------------------------|-------|--------------------|------------|------------------|-----|-------|------|------------|------|
| Test Description | Units PQL Method Blank # | | # | Base Dup. | | RPD | LCS-1 | [NT] | | |
| Date prepared | - | | | 02/07/2025 | [NT] | | [NT] | [NT] | 02/07/2025 | [NT] |
| Date analysed | - | | | 03/07/2025 | [NT] | | [NT] | [NT] | 03/07/2025 | [NT] |
| Lead in paint | %w/w | 0.005 | Metals-020/021/022 | <0.005 | [NT] | | [NT] | [NT] | 104 | [NT] |
| | | | | | | | | | | |

| QUALIT | Duplicate | | | | Spike Recovery % | | | | | |
|------------------|------------------------------|---|--------------------|------------|------------------|--|-------|------|------------|--|
| Test Description | ion Units PQL Method Blank # | | # | Base | Dup. | | LCS-1 | [NT] | | |
| Date prepared | - | | | 02/07/2025 | [NT] | | [NT] | [NT] | 02/07/2025 | |
| Date analysed | - | | | 03/07/2025 | [NT] | | [NT] | [NT] | 03/07/2025 | |
| Lead in Swabs | μg/swab | 1 | Metals-020/021/022 | <1 | [NT] | | [NT] | [NT] | 106 | |
| | | | | | | | | | | |

| Result Definiti | ons |
|-----------------|---|
| NT | Not tested |
| NA | Test not required |
| INS | Insufficient sample for this test |
| PQL | Practical Quantitation Limit |
| < | Less than |
| > | Greater than |
| RPD | Relative Percent Difference |
| LCS | Laboratory Control Sample |
| NS | Not specified |
| NEPM | National Environmental Protection Measure |
| NR | Not Reported |

| Quality Control | ol 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. |

Envirolab Reference: 384642

Revision No: R00

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: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% - see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Air volumes are typically provided by customers (often as flow rate(s) and sampling time(s) and/or simply volumes) sampled or exposure times (determines 'volume' passive badges are exposed to)). Hence in such circumstances the volume measurement is inevitably not covered by Envirolab's NATA accreditation. An exception may occur where Envirolab Newcastle does the sampling where accreditation exists for certain types of sampling and hence volume determination(s). Note air volumes are often used to determine concentrations for dust and/or analyses on filters, sorbents and in impingers. For canister sampling, the air volume is covered by Envirolab's NATA accreditation.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-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.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

For Dust Deposit Gauge (DDG) analysis the sampling, sampling period and funnel exposure area do not fall under Envirolab's NATA accreditation (unless the Newcastle laboratory where responsible for the sampling), hence the annotation on the DDG units of reporting.

Urine Analysis - The BEI values listed are taken from the 2022 edition of "TLVs and BEIs Threshold Limits" by ACGIH.

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Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

SAMPLE RECEIPT ADVICE

| Client Details | |
|----------------|-----------------|
| Client | JK Environments |
| Attention | Lewis Robinson |

| Sample Login Details | |
|--------------------------------------|-----------------|
| Your reference | E37718PL, Manly |
| Envirolab Reference | 384642 |
| Date Sample Received | 30/06/2025 |
| Date Instructions Received | 30/06/2025 |
| Date Results Expected to be Reported | 07/07/2025 |

| Sample Condition | |
|--|-----------------------------|
| Samples received in appropriate condition for analysis | Yes |
| No. of Samples Provided | 4 Material, 2 Paint, 1 Swab |
| Turnaround Time Requested | Standard |
| Temperature on Receipt (°C) | 18 |
| Cooling Method | None |
| Sampling Date Provided | YES |

| Comments | |
|----------|--|
| Nil | |

Please direct any queries to:

| Aileen Hie | Jacinta Hurst |
|------------------------------|--------------------------------|
| Phone: 02 9910 6200 | Phone: 02 9910 6200 |
| Fax: 02 9910 6201 | Fax: 02 9910 6201 |
| Email: ahie@envirolab.com.au | Email: jhurst@envirolab.com.au |

Analysis Underway, details on the following page:



Envirolab Services Pty Ltd ABN 37 112 535 645

12 Ashley St Chatswood NSW 2067 ph 02 9910 6200 fax 02 9910 6201 customerservice@envirolab.com.au www.envirolab.com.au

| Sample ID | Asbestos ID - materials | Lead in Paint | Lead in swab |
|-----------|-------------------------|---------------|--------------|
| ASB1 | ✓ | | |
| ASB2 | ✓ | | |
| ASB3 | ✓ | | |
| ASB4 | ✓ | | |
| LP1 | | ✓ | |
| LP2 | | ✓ | |
| LD1 | | | ✓ |

The 'V' indicates the testing you have requested. THIS IS NOT A REPORT OF THE RESULTS.

Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.

Requests for longer term sample storage must be received in writing.

Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.

TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

| TO: | | | - 3MIA | IPLE AND CHAIN C | AL COST | טא זעט | | | | | | | | | |
|---|-------------|-----------------------|-----------------------------|---|--|-------------------------|---|--|-------|-------|-------|-------------|---|--|--|
| 10. ENVIROLAB SERVICES PTY LTD 12 ASHLEY STREET CHATSWOOD NSW 2067 P: (02) 99106200 F: (02) 99106201 | | JKE Job Number: E3777 | JKEnvironments | | | | | | | | | | | | |
| | | | Date Results STAN Required: | DARD | | REAR OF 1 | REAR OF 115 WICKS ROAD MACQUARIE PARK, NSW 2113 | | | | | | | | |
| Attention: Aileen | | | | Page: 1 of 1 | | | | P: 02-9888 5000 F: 02-9888 5001 Attention: Lewis Robinson, Harry Leonard | | | | | | | |
| Location: | Manly | , NSW | | er en | | Saı | nple Preser | ved in ! | sky c | n Ice | | | | | |
| Sampler: | LR | 1 | | · · · · · · · · · · · · · · · · · · · | | 1 | | Require | d | | | | | | |
| Date Sampled | Lab Ref: | Sample Number | Sample Container | Sample Description | Asbestos | Lead (mg/kg) | Lead (µg/swab) | , | | | | | | | |
| 30.06.2025 | 1 | ASB1 | Р | Material | X | | | | | | | | | | |
| 30.06.2025 | 2 | ASB2 | P | Material | Χ | | - 1 | | | | 5 | | | | |
| 30.06.2025 | 3 | ASB3 | Р | Material | X | | | | | | | | | | |
| 30.06.2025 | 4 | ASB4 | P | Material | Χ | | <u> -</u> | | , | 4. | | | | | |
| 30.06.2025 | 9 | LP1 | Р | Paint Chip | | X | | | _ | | | | | | |
| 30.06.2025 | 6 | LP2 | P , | Paint Chip | | X. | | | - 1 | | | | | | |
| 30.06.2025 | 1 | LD1 | Р | Dust Swab | | | Х | | | | | | | | |
| | | | | e e | . 4 . | | | | | | | | | | |
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| | | 4 | · | Same C | hatswood N | SW 2067 | | | | | | _ | | | |
| : | | | | Job No: 37 | 1642 | 10 0200 | 4. | | | | | | | | |
| | | | | Date Received: | 30/6/2 | | | | | | | | | | |
| · . | ' | | * **. | Time Received | 14.59 Lu | | | , | | | | | | | |
| | | | | Temp: Cool/Acn | bient. | | | | | | | | | | |
| | | | <u>.</u> . | Cooling: tce/ice Security: Intact/ | pack Broken/N∂• | ទ | | | | | | | | | |
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| | | | | | | | | | | | | | | | |
| Remarks (con | | :/detection.limits r | | S mg/kg | Sample Cor G - 250mg A - Ziplock | Glass Jar Asbestos B | | • | | | | | | | |
| - 11 - 1 - 1 | Dan Í D | | | Date: 20 05 2025 | P - Plastic E | Bag | Dessived F | . | | | | | | | |
| Relinquished | BY: LK | | | Date: 30.06.2025 | Time: | r!S S | Received B | y: | | 1 | Date: | | | | |