8 December 2022

640.30578.00300-L02-v3.0-LOA-20221208.docx

Darebin City Council c/o Russell Kennedy Lawyers
274 Gower Street, Preston
Victoria 3072

**Attention:** **Tim Curtis**

Dear Tim,

# Letter of Advice
# Melbourne Innovation Centre
# Building 3, 2 Wingrove Street, Alphington Victoria 3078

## 1 Introduction

SLR Consulting Australia Pty Ltd (SLR) was requested by Daniel DeSimone of Darebin City Council to conduct sampling of surface dusts for asbestos content, and to undertake background air monitoring during sampling at Building 3, 2 Wingrove Street, Alphington Victoria 3078 to ascertain extent of potential Asbestos Containing Dust (ACD) and to determine the extent of removal works required. The assessment was conducted on 23-27 November 2022 by Krishna Kadali/James Bracken from SLR.

The property located at currently 2 Wingrove Street, Alphington Victoria 3078 has a conforming Asbestos Register under the Work Health and Safety Regulation (2011).

**Figure 1 Site Location**

Image Taken from Nearmap 2022

## 2 Methodologies

The asbestos dust and debris sampling was undertaken considering a risk management approach, in accordance with best practice, State Legislation and Safe Work Australia NOHSC Guidance. The survey was conducted in a manner which conforms with the *Occupational Health and Safety Regulations 2017*.

Control airborne fibre monitoring was conducted in accordance with Test Method NOHSC: 3003(2005) and SLR in-house technical procedures.

### 2.1 Asbestos Containing Dust (ACD)

Samples collection was performed by competent persons. Presumptions, based on knowledge and experience, that inaccessible areas may contain asbestos materials may also be made and stated within the report.

This letter of advice summarises the visual inspection with sampling/analysis of materials undertaken by a trained and experienced surveyor. Materials are assumed to contain asbestos where laboratory analysis has confirmed the presence of asbestos in a visually similar material.

Samples collected are representative of the material sampled, individually identified, transported, analysed and reported in accordance with Guidelines, relevant Statutory Regulations, Codes of Practice and SLR in-house Work Instructions and procedures. Samples were submitted to a NATA certified laboratory for confirmation analysis by stereo microscope and polarised light microscopy (PLM) with dispersion staining techniques.

Notably, 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 low grade or small length or diameter of asbestos fibres present in the material, or attributed to the fact that, very fine fibres have been distributed individually throughout the materials. Some materials, such as vinyl tiles, may require further analysis via X-ray diffraction or Scanning Electron Microscopy.

## 3 Results

SLR obtained a total of 93 samples, of which 92 were dust samples and 1 cement sheet debris sample. Refer to **Table 1** for sample locations and results. Refer to **Appendix A** for Certificate of Analysis and **Appendix B** for Airborne Asbestos Monitoring Report. Photographic evidence can be found within **Appendix C**.

**Table 1 Sample Locations and Results**

| Sample No. | Sample Location | Sample Description (including Weight/Size) | Analysis Results |
|---|---|---|---|
| 11-916 | Building 3A-3D – Above Mezzanine Level – Ceiling Void | Approximate Sample <1g<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Synthetic mineral fibres detected.<br>Organic fibres detected.<br>No trace asbestos detected. |

| Sample No. | Sample Location | Sample Description (including Weight/Size) | Analysis Results |
|---|---|---|---|
| 11-917 | Building 3A-3D – Above Mezzanine Level – Ceiling Void | Approximate Sample 4g<br>Sample consisted of: Dust | Chrysotile asbestos detected in the form of loose fibres of approximate size 10 x 5 x 2mm.<br>Synthetic mineral fibres detected.<br>Organic fibres detected. |
| 11-918 | Building 3A-3D – Above Mezzanine Level – Ceiling Void | Approximate Sample 3g<br>Sample consisted of: Dust | Chrysotile asbestos detected in the form of loose fibres of approximate size 5 x 5 x 1mm.<br>Synthetic mineral fibres detected.<br>Organic fibres detected. |
| 11-919 | Building 3A-3D – Above Mezzanine Level – Ceiling Void | Approximate Sample 3g<br>Sample consisted of: Dust | Chrysotile asbestos detected in the form of loose fibres of approximate size 10 x 2 x 2mm.<br>Synthetic mineral fibres detected.<br>Organic fibres detected. |
| 11-920 | Building 3A-3D – Above Mezzanine Level – Ceiling Void | Approximate Sample 1g<br>Sample consisted of: Dust | Chrysotile asbestos detected in the form of loose fibres of approximate size 5 x 5 x 2mm.<br>Synthetic mineral fibres detected.<br>Organic fibres detected. |
| 11-921 | Building 3A-3D – Above Mezzanine Level – Ceiling Void | Approximate Sample 2g<br>Sample consisted of: Dust | Chrysotile asbestos detected in the form of loose fibres of approximate size 5 x 5 x 2mm.<br>Synthetic mineral fibres detected.<br>Organic fibres detected. |
| 11-922 | Building 3A-3D – Above Mezzanine Level – Ceiling Void | Approximate Sample 5g<br>Sample consisted of: Dust | Chrysotile asbestos detected in the form of loose fibres of approximate size 10 x 2 x 2mm.<br>Synthetic mineral fibres detected.<br>Organic fibres detected. |
| 11-923 | Building 3A-3D – Above Mezzanine Level – Ceiling Void | Approximate Sample 1g<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Synthetic mineral fibres detected.<br>Organic fibres detected.<br>No trace asbestos detected. |

| Sample No. | Sample Location | Sample Description (including Weight/Size) | Analysis Results |
|---|---|---|---|
| 11-924 | Building 3A-3D – Above Mezzanine Level – Ceiling Void | Approximate Sample 2g<br>Sample consisted of: Dust | Chrysotile asbestos detected in fibre cement fragments of approximate size 5 x 5 x 2mm.<br>Synthetic mineral fibres detected.<br>Organic fibres detected. |
| 11-925 | Building 3A-3D – Above Mezzanine Level – Ceiling Void | Approximate Sample 5g<br>Sample consisted of: Dust | Chrysotile asbestos detected in the form of loose fibres of approximate size 5 x 5 x 2mm.<br>Synthetic mineral fibres detected.<br>Organic fibres detected. |
| 11-926 | Building 3A-3D – Above Mezzanine Level – Ceiling Void | Approximate Sample 1g<br>Sample consisted of: Dust | Chrysotile asbestos detected in the form of loose fibres of approximate size 10 x 5 x 1mm.<br>Synthetic mineral fibres detected.<br>Organic fibres detected. |
| 11-927 | Building 3A-3D – Mezzanine Level – Ladies Toilet - Floor | Approximate Sample <1g<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Organic fibres detected.<br>No trace asbestos detected. |
| 11-928 | Building 3A-3D – Mezzanine Level – Corridor - Floor | Approximate Sample <1g<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Organic fibres detected.<br>No trace asbestos detected. |
| 11-929 | Building 3A-3D – Mezzanine Level – Male Toilets - Floor | Approximate Sample <1g<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Synthetic mineral fibres detected.<br>Organic fibres detected.<br>No trace asbestos detected. |
| 11-930 | Building 3A-3D – Mezzanine Level – Library - Shelf | Approximate Sample <1g<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Organic fibres detected.<br>No trace asbestos detected. |
| 11-931 | Building 3A-3D – Mezzanine Level – Store Room - South – Adjacent Stairs - Floor | Approximate Sample 2g<br>Sample consisted of: Dust | Chrysotile asbestos detected in the form of loose fibres of approximate size 10 x 5 x 1mm.<br>Synthetic mineral fibres detected.<br>Organic fibres detected. |

| Sample No. | Sample Location | Sample Description (including Weight/Size) | Analysis Results |
|---|---|---|---|
| 11-932 | Building 3A-3D – Mezzanine Level – Above Caged Area - Wall – Adjacent Stairs | Approximate Sample 3g<br>Sample consisted of: Dust | Chrysotile asbestos detected in the form of loose fibres of approximate size 5 x 5 x 2mm.<br>Synthetic mineral fibres detected.<br>Organic fibres detected. |
| 11-933 | Building 3A-3D – Canopy – Caged Area - Adjacent Stairs | Approximate Sample 4g / - mm<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Synthetic mineral fibre detected.<br>Organic fibre detected.<br>No trace asbestos detected. |
| 11-934 | Building 3A-3D – Above Temperature Room – Adjacent Farm Wall (at 3 meter height) | Approximate Sample 3g / - mm<br>Sample consisted of: Dust | Chrysotile asbestos detected in the form of cement sheet fragment.<br>Approximate dimensions: 6 x 3 x 1mm.<br>Organic fibre detected.<br>Synthetic mineral fibre detected.<br>No trace asbestos detected. |
| 11-935 | Building 3A-3D – Farm Wall – Plastic Covering (at 3 meter height) | Approximate Sample 3g / - mm<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Synthetic mineral fibre detected.<br>Organic fibre detected.<br>No trace asbestos detected. |
| 11-936 | Building 3A-3D – East Wall – Above Entry (at 3 meter height) | Approximate Sample 3g / - mm<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Synthetic mineral fibre detected.<br>Organic fibre detected.<br>No trace asbestos detected. |
| 11-937 | Building 3A-3D – Spray Booth - Floor | Approximate Sample 1g / - mm<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Organic fibre detected.<br>No trace asbestos detected. |
| 11-938 | Building 3A-3D – Spray Booth – Shelf – North (at 2 meter height) | Approximate Sample 1g / - mm<br>Sample consisted of: Dust | Chrysotile asbestos detected in the form of cement sheet fragment.<br>Approximate dimensions: 5 x 1 x 1mm.<br>Organic fibre detected.<br>No trace asbestos detected. |
| 11-939 | Building 3A-3D – Spray Booth – Shelf – Mezzanine (at 3 meter height) | Approximate Sample 3g<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Organic fibre detected.<br>No trace asbestos detected. |

| Sample No. | Sample Location | Sample Description (including Weight/Size) | Analysis Results |
|---|---|---|---|
| 11-940 | Building 3A-3D – Spray Booth – North Wall (at 3 meter height) | Approximate Sample 30g / - mm<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Organic fibre detected.<br>No trace asbestos detected. |
| 11-941 | Building 3A-3D – North wall – Adjacent South Stairs (at 3 meter height) | Approximate Sample 2g / - mm<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Synthetic mineral fibre detected.<br>Organic fibre detected.<br>No trace asbestos detected. |
| 11-942 | Building 3A-3D – Corridor West wall – Adjacent Brewery – (at 2 meter height) | Approximate Sample 2g / - mm<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Organic fibre detected.<br>No trace asbestos detected. |
| 11-943 | Building 3A-3D – Corridor – Floor – Adjacent Brewery | Approximate Sample 2g / - mm<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Organic fibre detected.<br>No trace asbestos detected. |
| 11-944 | Building 3A-3D – Garage - West Wall – Adjacent Plant (at 1 meter height) | Approximate Sample 2g / - mm<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Synthetic mineral fibre detected.<br>Organic fibre detected.<br>No trace asbestos detecte |
| 11-945 | Building 3A-3D – Garage- West Wall – Adjacent Lifting Equipment (at 1 meter height) | Approximate Sample 2g / - mm<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Synthetic mineral fibre detected.<br>Organic fibre detected.<br>No trace asbestos detected. |
| 11-946 | Building 3A-3D – Garage- West Wall – Adjacent Tools Shelf (at 1 meter height) | Approximate Sample 4g / - mm<br>Sample consisted of: Dust | Chrysotile asbestos detected in the form of loose fibre bundle.<br>Approximate dimensions: 5 x 2 x 1mm.<br>Organic fibre detected.<br>Synthetic mineral fibre detected.<br>No trace asbestos detected. |
| 11-947 | Building 3A-3D – Garage West Wall – Switchboard (at 1 meter height) | Approximate Sample 2g / - mm<br>Sample consisted of: Dust | Chrysotile asbestos detected in the form of fibre cement fragment.<br>Approximate dimension: 5 x 1 x 1mm.<br>Organic fibre detected.<br>Synthetic mineral fibre detected.<br>No trace asbestos detected. |

| Sample No. | Sample Location | Sample Description (including Weight/Size) | Analysis Results |
|---|---|---|---|
| 11-948 | Building 3A-3D – Garage - East Wall – Opposite Switchboard (at 1 meter height) | Approximate Sample 2g / - mm<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Synthetic mineral fibre detected.<br>Organic fibre detected.<br>No trace asbestos detected. |
| 11-949 | Building 3A-3D – Garage - Floor – East Side - Adjacent Lift equipment (at 1 meter height) | Approximate Sample <1g / - mm<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Organic fibre detected.<br>No trace asbestos detected. |
| 11-950 | Building 3A-3D – Garage – South wall – Centre (at 1 meter height) | Approximate Sample 4g / - mm<br>Sample consisted of: Dust | Chrysotile asbestos detected in the form of loose fibre bundle.<br>Approximate dimension: 10 x 2 x 1mm.<br>Organic fibre detected.<br>Synthetic mineral fibre detected.<br>No trace asbestos detected. |
| 11-951 | Building 3A-3D – Garage – Office 1 – Windowsill (at 1 meter height) | Approximate Sample <1g / - mm<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Organic fibre detected.<br>No trace asbestos detected. |
| 11-952 | Building 3A-3D – Garage – Above Office 2 (at 2 meter height) | Approximate Sample 5g / - mm<br>Sample consisted of: Dust | Chrysotile asbestos detected in the form of loose fibre bundle.<br>Approximate dimension: 10 x 2 x 1mm.<br>Organic fibre detected.<br>Synthetic mineral fibre detected.<br>No trace asbestos detected |
| 11-953 | Building 3A-3D – Garage – Above Office 2 – on Table (at 1 meter height) | Approximate Sample 4g / - mm<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Synthetic mineral fibre detected.<br>Organic fibre detected.<br>No trace asbestos detected. |
| 11-954 | Building 3A-3D – Garage – West Wall (at 4 meter height) | Approximate Sample 3g / - mm<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Synthetic mineral fibre detected.<br>Organic fibre detected.<br>No trace asbestos detected. |

| Sample No. | Sample Location | Sample Description (including Weight/Size) | Analysis Results |
|---|---|---|---|
| 11-955 | Building 3A-3D – Garage – West Wall (at 6 meter height) | Approximate Sample 5g / - mm<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Synthetic mineral fibre detected.<br>Organic fibre detected.<br>No trace asbestos detected. |
| 11-956 | Building 3A-3D – Garage – Loading Rail (at 6 meter height) | Approximate Sample 2g / - mm<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Synthetic mineral fibre detected.<br>Organic fibre detected.<br>No trace asbestos detected. |
| 11-957 | Building 3A-3D – Garage – Hand Rail - West (at 8 meter height) | Approximate Sample 5g / - mm<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Synthetic mineral fibre detected.<br>Organic fibre detected.<br>No trace asbestos detected. |
| 11-958 | Building 3A-3D – Garage – Spray Bay - West Wall (at 3 meter height) | Approximate Sample 3g / - mm<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Synthetic mineral fibre detected.<br>Organic fibre detected.<br>No trace asbestos detected. |
| 11-959 | Building 3A-3D – Garage – West Wall (at 2 meter height) | Approximate Sample 4g / - mm<br>Sample consisted of: Dust | Chrysotile asbestos detected in the form of loose fibre bundle.<br>Approximate dimensions: 5 x 1 x 1mm.<br>Organic fibre detected.<br>Synthetic mineral fibre detected.<br>No trace asbestos detected. |
| 11-960 | Building 3A-3D – Garage – West Wall (at 3 meter height) | Approximate Sample 5g / - mm<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Synthetic mineral fibre detected.<br>Organic fibre detected.<br>No trace asbestos detected. |
| 11-961 | Building 3A-3D – Garage – Loading Rail Platform (at 7 meter height) | Approximate Sample 24g / - mm<br>Sample consisted of: Cement sheet | Chrysotile asbestos detected.<br>Organic fibre detected. |
| 11-962 | Building 3A-3D – Garage – Cross Beam - South (at 8 meter height) | Approximate Sample 4g / - mm<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Synthetic mineral fibre detected.<br>Organic fibre detected.<br>No trace asbestos detected. |

| Sample No. | Sample Location | Sample Description (including Weight/Size) | Analysis Results |
|---|---|---|---|
| 11-963 | Building 3A-3D – Garage – Cross Beam - Centre (at 8 meter height) | Approximate Sample 2g<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Synthetic mineral fibre detected.<br>Organic fibre detected.<br>No trace asbestos detecte |
| 11-964 | Building 3A-3D – Garage – Cross Beam - North (at 8 meter height) | Approximate Sample 2g<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Synthetic mineral fibre detected.<br>Organic fibre detected.<br>No trace asbestos detected. |
| 11-965 | Building 3A-3D – Garage – on Loading Rail Equipment (at 8 meter height) | Approximate Sample 2g<br>Sample consisted of: Dust | Chrysotile asbestos detected in the form of fibre cement fragment.<br>Approximate dimension: 10 x 10 x 2mm.<br>Organic fibre detected.<br>Synthetic mineral fibre detected.<br>No trace asbestos detected. |
| 11-966 | Building 3A-3D – Office Adjacent Brewery – North Wall (at 3 meter height) | Approximate Sample 3g<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Organic fibre detected.<br>No trace asbestos detected. |
| 11-967 | Building 3A-3D – Office Adjacent Brewery - Floor | Approximate Sample <1g<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Organic fibre detected.<br>No trace asbestos detected. |
| 11-968 | Building 3A-3D – Office Adjacent Spray Booth – Windowsill (at 1 meter height) | Approximate Sample <1g<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Organic fibre detected.<br>No trace asbestos detected. |
| 11-975 | Building 3A-3D – SES Toilets Adjacent SES Tea Room – on Hot water Heater - (at 1 meter height) | Approximate Sample <1g<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Organic fibre detected.<br>No trace asbestos detected. |
| 11-976 | Building 3A-3D – SES Office Room – Window Sill – North (at 1 meter height) | Approximate Sample <1g<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Organic fibre detected.<br>No trace asbestos detected. |

| Sample No. | Sample Location | Sample Description (including Weight/Size) | Analysis Results |
|---|---|---|---|
| 12-113 | Building 3A-3D – Brewery – Fermentation - East Wall – Adjacent Office (at 2 meter height) | Approximate Sample g<br>Sample consisted of: Dust | Chrysotile asbestos detected in the form of loose fibre bundle<br>approximate size: 10 x 2 x 1mm.<br>Organic fibre detected.<br>Synthetic mineral fibre detected.<br>No trace asbestos detected. |
| 12-114 | Building 3A-3D – Brewery – Fermentation - Shelf – Adjacent Office (at 2 meter height) | Approximate Sample g<br>Sample consisted of: Dus | Chrysotile asbestos detected in the form of loose fibre bundle<br>approximate size: 5 x 5 x 1mm.<br>Organic fibre detected.<br>No trace asbestos detected. |
| 12-115 | Building 3A-3D – Brewery – Fermentation - Above Office (at 2 meter height) | Approximate Sample g<br>Sample consisted of: Dust | Chrysotile asbestos detected in the form of fibre cement fragments<br>approximate size: 10 x 5 x 2mm.<br>Organic fibre detected.<br>Synthetic mineral fibre detected.<br>No trace asbestos detected. |
| 12-116 | Building 3A-3D – Brewery – Fermentation – North Wall – Right (at 1.5 meter height) | Approximate Sample g<br>Sample consisted of: Dust | Chrysotile asbestos detected in the form of loose fibre bundle<br>approximate size: 5 x 2 x 1mm.<br>Organic fibre detected.<br>Synthetic mineral fibre detected.<br>No trace asbestos detected. |
| 12-117 | Building 3A-3D – Brewery – Fermentation – North Wall – Centre (at 1.5 meter height) | Approximate Sample g<br>Sample consisted of: Dust | Chrysotile asbestos detected in the form of loose fibre bundle<br>approximate size: 5 x 5 x 1mm.<br>Organic fibre detected.<br>Synthetic mineral fibre detected.<br>No trace asbestos detected. |
| 12-118 | Building 3A-3D – Brewery – Fermentation – Above Walkin Fridge – North Side (at 2 meter height) | Approximate Sample g<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Synthetic mineral fibre detected.<br>Organic fibre detected.<br>No trace asbestos detected. |

| Sample No. | Sample Location | Sample Description (including Weight/Size) | Analysis Results |
|---|---|---|---|
| 12-119 | Building 3A-3D – Brewery – Fermentation – North Wall - Left (at 3 meter height) | Approximate Sample g<br>Sample consisted of: Dust | Chrysotile asbestos detected in the form of loose fibre bundle<br>approximate size: 5 x 2 x 1mm.<br>Organic fibre detected.<br>Synthetic mineral fibre detected.<br>No trace asbestos detected. |
| 12-120 | Building 3A-3D – Brewery – Fermentation – West Wall – Shelf (at 2 meter height) | Approximate Sample g<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Organic fibre detected.<br>No trace asbestos detected. |
| 12-121 | Building 3A-3D – Brewery – Fermentation – Floor – West | Approximate Sample g<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Synthetic mineral fibre detected.<br>Organic fibre detected.<br>No trace asbestos detected. |
| 12-122 | Building 3A-3D – Brewery – Fermentation – South Wall – Shelf (at 2 meter height) | Approximate Sample g<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Organic fibre detected.<br>No trace asbestos detected. |
| 12-123 | Building 3A-3D – Brewery – Fermentation – Floor - South | Approximate Sample 6g<br>Sample consisted of: Dust | Chrysotile asbestos detected in the form of loose fibre bundle<br>approximate size: 10 x 5 x 1mm.<br>Organic fibre detected.<br>No trace asbestos detected. |
| 12-124 | Building 3A-3D – Brewery – Fermentation – Above Walkin Fridge – South Side (at 2 meter height) | Approximate Sample 4g<br>Sample consisted of: Dust | Chrysotile asbestos detected in the form of loose fibre bundle<br>approximate size: 5 x 2 x 1mm.<br>Organic fibre detected.<br>Synthetic mineral fibre detected.<br>No trace asbestos detected |
| 12-125 | Building 3A-3D – Brewery – Bar – East Wall – Left (at 1 meter height) | Approximate Sample <1g<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Synthetic mineral fibre detected.<br>Organic fibre detected.<br>No trace asbestos detected. |

| Sample No. | Sample Location | Sample Description (including Weight/Size) | Analysis Results |
|---|---|---|---|
| 12-126 | Building 3A-3D – Brewery – Bar – West Wall – Shelf (at 1 meter height) | Approximate Sample <1g<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Synthetic mineral fibre detected.<br>Organic fibre detected.<br>No trace asbestos detected. |
| 12-127 | Building 3A-3D – Brewery – Bar – Nortrh Wall – Adjacent North Entry (at 1 meter height) | Approximate Sample 2g<br>Sample consisted of: Dust | Chrysotile asbestos detected in the form of loose fibre bundle<br>approximate size: 5 x 5 x 1mm.<br>Organic fibre detected.<br>Synthetic mineral fibre detected.<br>No trace asbestos detected. |
| 12-128 | Building 3A-3D – Brewery – Bar – Floor – Adjacent North Entry | Approximate Sample 3g<br>Sample consisted of: Dust | Chrysotile asbestos detected in the form of loose fibre bundle<br>approximate size: 5 x 2 x 1mm.<br>Organic fibre detected.<br>Synthetic mineral fibre detected.<br>No trace asbestos detected. |
| 12-129 | Building 3A-3D – Brewery – Bar – Above Fridge – Adjacent Container (at 1 meter height) | Approximate Sample 2g<br>Sample consisted of: Dust | Chrysotile asbestos detected in the form of loose fibre bundle<br>approximate size: 5 x 2 x 1mm.<br>Organic fibre detected.<br>Synthetic mineral fibre detected.<br>No trace asbestos detected. |
| 12-130 | Building 3A-3D – Brewery – Bar – Above Container – (at 2 meter height) | Approximate Sample <1g<br>Sample consisted of: Dust | Chrysotile asbestos detected in the form of loose fibre bundle<br>approximate size: 5 x 1 x 1mm.<br>Organic fibre detected.<br>Synthetic mineral fibre detected.<br>No trace asbestos detected. |
| 12-131 | Building 3A-3D – Brewery – Bar – Above South Entry Doors – (at 2 meter height) | Approximate Sample <1g<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Organic fibre detected.<br>No trace asbestos detected. |

| Sample No. | Sample Location | Sample Description (including Weight/Size) | Analysis Results |
|---|---|---|---|
| 12-132 | Building 3A-3D – Brewery – Bar – Floor - Central | Approximate Sample <1g<br>Sample consisted of: Dust | Chrysotile asbestos detected in the form of loose fibre bundle<br>approximate size: 5 x 2 x 1mm.<br>Organic fibre detected.<br>Synthetic mineral fibre detected.<br>No trace asbestos detected. |
| 12-133 | Building 3A-3D – Brewery – Bar – South Wall – Adjacent Office (at 3 meter height) | Approximate Sample 2g<br>Sample consisted of: Dust | Chrysotile asbestos detected in the form of fibre cement fragments<br>approximate size: 10 x 2 x 1mm.<br>Organic fibre detected.<br>Synthetic mineral fibre detected.<br>No trace asbestos detected. |
| 12-139 | Building 3A – Workshop West– Windowsill - West (at 2 meter height) | Approximate Sample 1g / - mm<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Synthetic mineral fibre detected.<br>Organic fibre detected.<br>No trace asbestos detected. |
| 12-140 | Building 3A – Workshop West– Shelf - West (at 4 meter height) | Approximate Sample 2g / - mm<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Synthetic mineral fibre detected.<br>Organic fibre detected.<br>No trace asbestos detected. |
| 12-141 | Building 3A – Workshop West– Light Holder - North (at 2 meter height) | Approximate Sample 1g / - mm<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Synthetic mineral fibre detected.<br>Organic fibre detected.<br>No trace asbestos detected. |
| 12-142 | Building 3A – Workshop West– North Wall – Adjacent Left Door (at 1 meter height) | Approximate Sample 1g / - mm<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Synthetic mineral fibre detected.<br>Organic fibre detected.<br>No trace asbestos detected. |
| 12-143 | Building 3A – Workshop West– Shelf - North (at 2 meter height) | Approximate Sample 1g / - mm<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Synthetic mineral fibre detected.<br>Organic fibre detected.<br>No trace asbestos detected. |

| Sample No. | Sample Location | Sample Description (including Weight/Size) | Analysis Results |
|---|---|---|---|
| 12-144 | Building 3A – Workshop West North Wall – Right side corner (at 2 meter height) | Approximate Sample 2g / - mm<br>Sample consisted of: Dust | Chrysotile asbestos detected in the form of loose fibre bundle.<br>Approximate dimensions: 5 x 1 x 1mm.<br>Organic fibre detected.<br>Synthetic mineral fibre detected.<br>No trace asbestos detected. |
| 12-158 | Building 3A – Workshop East Windowsill – Left (at 1 meter height) | Approximate Sample 1g / - mm<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Organic fibre detected.<br>No trace asbestos detected. |
| 12-159 | Building 3A – Workshop East - Floor – Adjacent Left Roller Door | Approximate Sample 3g / - mm<br>Sample consisted of: Dust | Chrysotile asbestos detected in the form of loose fibre bundle.<br>Approximate dimensions: 2 x 1 x 1mm.<br>Organic fibre detected.<br>Synthetic mineral fibre detected.<br>No trace asbestos detected. |
| 12-160 | Building 3A – Workshop West North Wall – Stairs to Mezzanine (at 1 meter height) | Approximate Sample 1g / - mm<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Synthetic mineral fibre detected.<br>Organic fibre detected.<br>No trace asbestos detected. |
| 12-161 | Building 3A – Office Left – Windowsill (at 1 meter height) | Approximate Sample 1g / - mm<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Synthetic mineral fibre detected.<br>Organic fibre detected.<br>No trace asbestos detected. |
| 12-162 | Building 3A – Workshop East Windowsill – East (at 1 meter height) | Approximate Sample 2g<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Organic fibres detected.<br>No trace asbestos detected. |
| 12-163 | Building 3A – Workshop East – North Wall - Left (at 1 meter height) | Approximate Sample 2g<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Organic fibres detected.<br>No trace asbestos detected. |
| 12-164 | Building 3A – Workshop West – Floor – Adjacent West Entry Door | Approximate Sample 11g<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Synthetic mineral fibres detected.<br>Organic fibres detected.<br>No trace asbestos detected. |

| Sample No. | Sample Location | Sample Description (including Weight/Size) | Analysis Results |
|---|---|---|---|
| 12-165 | Building 3A – Office Left – Floor – Adjacent Entry Door | Approximate Sample 4g<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Organic fibres detected.<br>No trace asbestos detected. |
| 12-166 | Building 3A – Workshop East – Floor – Adjacent West Entry Door | Approximate Sample 1g<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Organic fibres detected.<br>No trace asbestos detected. |
| 12-167 | Building 3A – Mezzanine Workshop – Shelf – East (at 2 meter height) | Approximate Sample 2g<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Synthetic mineral fibres detected.<br>Organic fibres detected.<br>No trace asbestos detected |
| 12-168 | Building 3A – Mezzanine Workshop – Floor | Approximate Sample 4g<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Synthetic mineral fibres detected.<br>Organic fibres detected.<br>No trace asbestos detected. |

# 4 Recommendations

## 4.1 Immediate Action

It is the opinion of SLR that the following action is to be taken immediately:

- Asbestos contaminated dust and debris was identified at the time of the inspection at Building 3, 2 Wingrove Street, Alphington Victoria 3078. The friable asbestos/ACD was confirmed through laboratory analysis to be present in various locations, and should be assumed to be present to the general surface area(s) of the property.
- ACD is dust that is, or is assumed to be, contaminated with asbestos.
- Access to locations containing friable asbestos/ACD should be appropriately restricted (i.e. barricaded, etc). Persons wishing to access the areas must complete a suitable and sufficient risk assessment, the results of which include the use of appropriate Personal Protective Equipment (PPE) which include disposable coveralls and respiratory protection.
- SLR recommends that an air monitoring strategy be implemented as to assist with assessing the immediate risk of exposure to airborne fibres from the ACD
- Due to the potential of the friable asbestos in the dust becoming airborne, it is strongly recommended that access be restricted to the building until the area has been environmentally cleaned by a Class A asbestos removal contractor.
- Access should be restricted internally, and a management plan implemented to control the risk of human exposure. The area(s) should be labelled to indicate the presence of asbestos in the dust.

- The Work Health and Safety Regulations contain specific obligations for a number of duty holders in relation to safely removing asbestos, including requirements for asbestos removalists to be licensed.

- Asbestos contaminated dust or debris (ACD) at a workplace must be cleaned up by a Class A asbestos removalist unless the ACD that is associated with or derived from the removal of that non-friable ACM) as specified in the asbestos removal licence OHS Regulations r461 however, it would be strongly recommended that a Class A removalist is engaged to undertake these works.

- A Technical Scope of Works for remediation should be considered to be developed prior to undertaking works, to ensure all required aspects of the remediation are considered.

## 5 Limitations

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

Due to the possibility of renovations and additions to the building(s) over time, ACM may have been concealed (for example behind new walls, flooring, ceilings, within boxing, etc.); such areas may have been inaccessible during the inspection. If any materials reasonably suspected of containing asbestos are found during renovation and/or demolition of the building, which are not identified within this report, the client's independent consultant, SLR, should be contacted to complete additional confirmatory sampling and analysis as required.

The analysis was undertaken by Eurofins Mgt (NATA Accredited number: 1261).

The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w).

A change in building use/nature of activities could affect the control actions recommended within this report and a re-survey may be required. Thus, 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 Darebin City Council and/or associated parties.

Where potential ACM 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 SLR are prepared for a particular Client's objective and are based on a specific scope, conditions and limitations, as agreed upon between SLR and the Client. Information and/or report(s) prepared by SLR 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 SLR.

I trust that this report provides sufficient detail for your current requirements. We would be pleased to discuss this report with you as required - please do not hesitate to call me on (03) 0428788513 if you have any queries.

Yours sincerely

KRISHNA KADALI
Senior Project Consultant

Checked/ JB
Authorised by: JB

# APPENDIX A

Certificate of Analysis

# Certificate of Analysis

**NATA Accredited**
**Accreditation Number 1261**
**Site Number 1254**

Accredited for compliance with ISO/IEC 17025–Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

**SLR Consulting (Vic)**
**Suite 2, Grd Flr, 2 Domville Ave**
**Hawthorn**
**VIC 3122**

| | |
|---|---|
| **Attention:** | James Bracken |
| **Report** | 943842-AID |
| **Project Name** | Melbourne Innovation Centre |
| **Project ID** | 640.30578.00100 |
| **Received Date** | Nov 23, 2022 |
| **Date Reported** | Nov 24, 2022 |

## Methodology:

| | |
|---|---|
| Asbestos Fibre Identification | Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques.<br>*NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.* |
| Unknown Mineral Fibres | Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity.<br>*NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.* |
| Subsampling Soil Samples | The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed.<br>*NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.* |
| Bonded asbestos-containing material (ACM) | The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination.The resultant material is then further examined in accordance with AS 4964 - 2004.<br>*NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.* |
| Limit of Reporting | The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w).<br>The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk).<br>*NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos".This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.* |

**Project Name** Melbourne Innovation Centre
**Project ID** 640.30578.00100
**Date Sampled** Nov 23, 2022 to Dec 23, 2022
**Report** 943842-AID

| Client Sample ID | Eurofins Sample No. | Date Sampled | Sample Description | Result |
|---|---|---|---|---|
| 11-913 - Building 2A | 22-No0055748 | Nov 23, 2022 | Approximate Sample 2g<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Synthetic mineral fibres detected.<br>Organic fibres detected.<br>No trace asbestos detected. |
| 11-914 - Building 2A | 22-No0055749 | Nov 23, 2022 | Approximate Sample 2g<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Synthetic mineral fibres detected.<br>Organic fibres detected.<br>No trace asbestos detected. |
| 11-915 - Building 2A | 22-No0055750 | Nov 23, 2022 | Approximate Sample 3g<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Synthetic mineral fibres detected.<br>Organic fibres detected.<br>No trace asbestos detected. |
| 11-916 - Building 3A-3D - Mezzanine | 22-No0055751 | Nov 23, 2022 | Approximate Sample <1g<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Synthetic mineral fibres detected.<br>Organic fibres detected.<br>No trace asbestos detected. |
| 11-917 - Building 3A-3D - Mezzanine | 22-No0055752 | Nov 23, 2022 | Approximate Sample 4g<br>Sample consisted of: Dust | Chrysotile asbestos detected in the form of loose fibres of approximate size 10 x 5 x 2mm.<br><br>Synthetic mineral fibres detected.<br>Organic fibres detected. |
| 11-918 - Building 3A-3D - Mezzanine | 22-No0055753 | Nov 23, 2022 | Approximate Sample 3g<br>Sample consisted of: Dust | Chrysotile asbestos detected in the form of loose fibres of approximate size 5 x 5 x 1mm.<br><br>Synthetic mineral fibres detected.<br>Organic fibres detected. |

| Client Sample ID | Eurofins Sample No. | Date Sampled | Sample Description | Result |
|---|---|---|---|---|
| 11-919 - Building 3A-3D - Mezzanine | 22-No0055754 | Nov 23, 2022 | Approximate Sample 3g<br>Sample consisted of: Dust | Chrysotile asbestos detected in the form of loose fibres of approximate size 10 x 2 x 2mm.<br><br>Synthetic mineral fibres detected.<br>Organic fibres detected. |
| 11-920 - Building 3A-3D - Mezzanine | 22-No0055755 | Nov 23, 2022 | Approximate Sample 1g<br>Sample consisted of: Dust | Chrysotile asbestos detected in the form of loose fibres of approximate size 5 x 5 x 2mm.<br><br>Synthetic mineral fibres detected.<br>Organic fibres detected. |
| 11-921 - Building 3A-3D - Mezzanine | 22-No0055756 | Nov 23, 2022 | Approximate Sample 2g<br>Sample consisted of: Dust | Chrysotile asbestos detected in the form of loose fibres of approximate size 5 x 5 x 2mm.<br><br>Synthetic mineral fibres detected.<br>Organic fibres detected. |
| 11-922 - Building 3A-3D - Mezzanine | 22-No0055757 | Dec 23, 2022 | Approximate Sample 5g<br>Sample consisted of: Dust | Chrysotile asbestos detected in the form of loose fibres of approximate size 10 x 2 x 2mm.<br><br>Synthetic mineral fibres detected.<br>Organic fibres detected. |

## Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

| Description | Testing Site | Extracted | Holding Time |
|---|---|---|---|
| Asbestos - LTM-ASB-8020 | Melbourne | Nov 23, 2022 | Indefinite |

eurofins

web: www.eurofins.com.au
email: EnviroSales@eurofins.com

**Eurofins Environment Testing Australia Pty Ltd**
ABN: 50 005 085 521

**Melbourne**
6 Monterey Road
Dandenong South
VIC 3175
Tel: +61 3 8564 5000
NATA# 1261 Site# 1254

**Geelong**
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261 Site# 1254

**Sydney**
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
NATA# 1261 Site# 18217

**Canberra**
Unit 1,2 Dacre Street
Mitchell
ACT 2911
Tel: +61 2 6113 8091

**Brisbane**
1/21 Smallwood Place
Murarrie
QLD 4172
Tel: +61 7 3902 4600
NATA# 1261 Site# 20794

**Newcastle**
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Tel: +61 2 4968 8448
NATA# 1261 Site# 25079

**Eurofins ARL Pty Ltd**
ABN: 91 05 0159 898

**Perth**
46-48 Banksia Road
Welshpool
WA 6106
Tel: +61 8 6253 4444
NATA# 2377 Site# 2370

**Eurofins Environment Testing NZ Ltd**
NZBN: 9429046024954

**Auckland**
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

**Christchurch**
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

**Company Name:** SLR Consulting (Vic)
**Address:** Suite 2, Grd Flr, 2 Domville Ave
Hawthorn
VIC 3122

**Project Name:** Melbourne Innovation Centre
**Project ID:** 640.30578.00100

**Order No.:**
**Report #:** 943842
**Phone:** 03 9249 9400
**Fax:**

**Received:** Nov 23, 2022 5:29 PM
**Due:** Nov 24, 2022
**Priority:** 1 Day
**Contact Name:** James Bracken

**Eurofins Analytical Services Manager : Harry Bacalis**

| Sample Detail | | | | | | Asbestos Absence /Presence |
|---|---|---|---|---|---|---|
| **Melbourne Laboratory - NATA # 1261 Site # 1254** | | | | | | X |
| **External Laboratory** | | | | | | |
| **No** | **Sample ID** | **Sample Date** | **Sampling Time** | **Matrix** | **LAB ID** | |
| 1 | 11-913 - Building 2A | Nov 23, 2022 | | Building Materials | M22-No0055748 | X |
| 2 | 11-914 - Building 2A | Nov 23, 2022 | | Building Materials | M22-No0055749 | X |
| 3 | 11-915 - Building 2A | Nov 23, 2022 | | Building Materials | M22-No0055750 | X |
| 4 | 11-916 - Building 3A-3D -Mezzanine | Nov 23, 2022 | | Building Materials | M22-No0055751 | X |
| 5 | 11-917 - Building 3A-3D -Mezzanine | Nov 23, 2022 | | Building Materials | M22-No0055752 | X |
| 6 | 11-918 - Building 3A-3D -Mezzanine | Nov 23, 2022 | | Building Materials | M22-No0055753 | X |
| 7 | 11-919 - | Nov 23, 2022 | | Building | M22-No0055754 | X |

eurofins

web: www.eurofins.com.au
email: EnviroSales@eurofins.com

**Eurofins Environment Testing Australia Pty Ltd**
ABN: 50 005 085 521

**Melbourne**
6 Monterey Road
Dandenong South
VIC 3175
Tel: +61 3 8564 5000
NATA# 1261 Site# 1254

**Geelong**
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261 Site# 1254

**Sydney**
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
NATA# 1261 Site# 18217

**Canberra**
Unit 1,2 Dacre Street
Mitchell
ACT 2911
Tel: +61 2 6113 8091

**Brisbane**
1/21 Smallwood Place
Murarrie
QLD 4172
Tel: +61 7 3902 4600
NATA# 1261 Site# 20794

**Newcastle**
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Tel: +61 2 4968 8448
NATA# 1261 Site# 25079

**Eurofins ARL Pty Ltd**
ABN: 91 05 0159 898

**Perth**
46-48 Banksia Road
Welshpool
WA 6106
Tel: +61 8 6253 4444
NATA# 2377 Site# 2370

**Eurofins Environment Testing NZ Ltd**
NZBN: 9429046024954

**Auckland**
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

**Christchurch**
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

**Company Name:** SLR Consulting (Vic)
**Address:** Suite 2, Grd Flr, 2 Domville Ave
Hawthorn
VIC 3122

**Project Name:** Melbourne Innovation Centre
**Project ID:** 640.30578.00100

**Order No.:**
**Report #:** 943842
**Phone:** 03 9249 9400
**Fax:**

**Received:** Nov 23, 2022 5:29 PM
**Due:** Nov 24, 2022
**Priority:** 1 Day
**Contact Name:** James Bracken

**Eurofins Analytical Services Manager : Harry Bacalis**

| Sample Detail | | | | | | Asbestos Absence /Presence |
|---|---|---|---|---|---|---|
| **Melbourne Laboratory - NATA # 1261 Site # 1254** | | | | | | X |
| | Building 3A-3D -Mezzanine | | | Materials | | |
| 8 | 11-920 - Building 3A-3D -Mezzanine | Nov 23, 2022 | | Building Materials | M22-No0055755 | X |
| 9 | 11-921 - Building 3A-3D -Mezzanine | Nov 23, 2022 | | Building Materials | M22-No0055756 | X |
| 10 | 11-922 - Building 3A-3D -Mezzanine | Nov 23, 2022 | | Building Materials | M22-No0055757 | X |
| **Test Counts** | | | | | | 10 |

## Internal Quality Control Review and Glossary General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. Information identified on this report with the colour **blue** indicates data provided by customer that may have an impact on the results.
5. Information identified on this report with the colour **orange** indicates sections of the report not covered by the laboratory's scope of NATA accreditation.
6. This report replaces any interim results previously issued.

## Holding Times

Please refer to the most recent version of the 'Sample Preservation and Container Guide' for holding times (QS3001).
If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported. Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

## Units

| | |
|---|---|
| % w/w: | Percentage weight-for-weight basis, e.g. of asbestos in asbestos-containing finds in soil samples (**% w/w**) |
| F/fld | Airborne fibre filter loading as Fibres (**N**) per Fields counted (**n**) |
| F/mL | Airborne fibre reported concentration as Fibres per millilitre of air drawn over the sampler membrane (**C**) |
| g, kg | Mass, e.g. of whole sample (**M**) or asbestos-containing find within the sample (**m**) |
| g/kg | Concentration in grams per kilogram |
| L, mL | Volume, e.g. of air as measured in AFM (**V** = **r** x **t**) |
| L/min | Airborne fibre sampling Flowrate as litres per minute of air drawn over the sampler membrane (**r**) |
| min | Time (**t**), e.g. of air sample collection period |

## Calculations

Airborne Fibre Concentration: $C = \left(\frac{A}{a}\right) \times \left(\frac{N}{n}\right) \times \left(\frac{1}{r}\right) \times \left(\frac{1}{t}\right) = K \times \left(\frac{N}{n}\right) \times \left(\frac{1}{V}\right)$

Asbestos Content (as asbestos): $\%\, w/w = \frac{(m \times P_A)}{M}$

Weighted Average (of asbestos): $\%_{WA} = \sum \frac{(m \times P_A)_x}{x}$

## Terms

| | |
|---|---|
| **%asbestos** | Estimated percentage of asbestos in a given matrix. May be derived from knowledge or experience of the material, informed by HSG264 *Appendix 2*, else assumed to be 15% in accordance with WA DOH *Appendix 2* (**$P_A$**). |
| **ACM** | Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded (non-friable) condition. For the purposes of the NEPM and WA DOH, ACM corresponds to material larger than 7 mm x 7 mm. |
| **AF** | Asbestos Fines. Asbestos contamination within a soil sample, as defined by WA DOH. Includes loose fibre bundles and small pieces of friable and non-friable material such as asbestos cement fragments mixed with soil. Considered under the NEPM as equivalent to "non-bonded / friable". |
| **AFM** | Airborne Fibre Monitoring, e.g. by the MFM. |
| **Amosite** | Amosite Asbestos Detected. Amosite may also refer to Fibrous Grunerite or Brown Asbestos. Identified in accordance with AS 4964-2004. |
| **AS** | Australian Standard. |
| **Asbestos Content (as asbestos)** | Total % w/w asbestos content in asbestos-containing finds in a soil sample (**% w/w**). |
| **Chrysotile** | Chrysotile Asbestos Detected. Chrysotile may also refer to Fibrous Serpentine or White Asbestos. Identified in accordance with AS 4964-2004. |
| **COC** | Chain of Custody. |
| **Crocidolite** | Crocidolite Asbestos Detected. Crocidolite may also refer to Fibrous Riebeckite or Blue Asbestos. Identified in accordance with AS 4964-2004. |
| **Dry** | Sample is dried by heating prior to analysis. |
| **DS** | Dispersion Staining. Technique required for Unequivocal Identification of asbestos fibres by PLM. |
| **FA** | Fibrous Asbestos. Asbestos containing material that is wholly or in part friable, including materials with higher asbestos content with a propensity to become friable with handling, and any material that was previously non-friable and in a severely degraded condition. For the purposes of the NEPM and WA DOH, FA generally corresponds to material larger than 7 mm x 7 mm, although FA may be more difficult to visibly distinguish and may be assessed as AF. |
| **Fibre Count** | Total of all fibres (whether asbestos or not) meeting the counting criteria set out in the NOHSC:3003 |
| **Fibre ID** | Fibre Identification. Unequivocal identification of asbestos fibres according to AS 4964-2004. Includes Chrysotile, Amosite (Grunerite) or Crocidolite asbestos. |
| **Friable** | Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory's remit to assess degree of friability. |
| **HSG248** | UK HSE HSG248, *Asbestos: The Analysts Guide*, 2nd Edition (2021). |
| **HSG264** | UK HSE HSG264, *Asbestos: The Survey Guide* (2012). |
| **ISO (also ISO/IEC)** | International Organization for Standardization / International Electrotechnical Commission. |
| **K Factor** | Microscope constant (**K**) as derived from the effective filter area of the given AFM membrane used for collecting the sample (**A**) and the projected eyepiece graticule area of the specific microscope used for the analysis (**a**). |
| **LOR** | Limit of Reporting. |
| **MFM (also NOHSC:3003)** | Membrane Filter Method. As described by the Australian Government National Occupational Health and Safety Commission, *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres*, 2nd Edition [NOHSC:3003(2005)]. |
| **NEPM (also ASC NEPM)** | National Environment Protection (Assessment of Site Contamination) Measure, (2013, as amended). |
| **Organic** | Organic Fibres Detected. Organic may refer to Natural or Man-Made Polymeric Fibres. Identified in accordance with AS 4964-2004. |
| **PCM** | Phase Contrast Microscopy. As used for Fibre Counting according to the MFM. |
| **PLM** | Polarised Light Microscopy. As used for Fibre Identification and Trace Analysis according to AS 4964-2004. |
| **SMF** | Synthetic Mineral Fibre Detected. SMF may also refer to Man Made Vitreous Fibres. Identified in accordance with AS 4964-2004. |
| **SRA** | Sample Receipt Advice. |
| **Trace Analysis** | Analytical procedure used to detect the presence of respirable fibres (particularly asbestos) in a given sample matrix. |
| **UK HSE HSG** | United Kingdom, Health and Safety Executive, Health and Safety Guidance, publication. |
| **UMF** | Unidentified Mineral Fibre Detected. Fibrous minerals that are detected but have not been unequivocally identified by PLM with DS according the AS 4964-2004. May include (but not limited to) Actinolite, Anthophyllite or Tremolite asbestos. |
| **WA DOH** | Reference document for the NEPM. Government of Western Australia, *Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia* (updated 2021), including Appendix Four: *Laboratory analysis* |
| **Weighted Average** | Combined average % w/w asbestos content of all asbestos-containing finds in the given aliquot or total soil sample (**$\%_{WA}$**). |

## Comments

### Sample Integrity

| | |
|---|---|
| Custody Seals Intact (if used) | N/A |
| Attempt to Chill was evident | N/A |
| Sample correctly preserved | Yes |
| Appropriate sample containers have been used | Yes |
| Sample containers for volatile analysis received with minimal headspace | Yes |
| Samples received within HoldingTime | Yes |
| Some samples have been subcontracted | No |

### Asbestos Counter/Identifier:

| | |
|---|---|
| Hiren Patel | Senior Analyst-Asbestos |

### Authorised by:

| | |
|---|---|
| Sheha Prakash | Senior Analyst-Asbestos |

**Glenn Jackson**
**General Manager**

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

# Certificate of Analysis

**SLR Consulting (Vic)**
**Suite 2, Grd Flr, 2 Domville Ave**
**Hawthorn**
**VIC 3122**

**NATA Accredited**
**Accreditation Number 1261**
**Site Number 1254**

Accredited for compliance with ISO/IEC 17025–Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

| | |
|---|---|
| **Attention:** | James Bracken |
| **Report** | 943845-AID |
| **Project Name** | Melbourne Innovation Centre |
| **Project ID** | 640.30578.00100 |
| **Received Date** | Nov 23, 2022 |
| **Date Reported** | Nov 25, 2022 |

## Methodology:

| | |
|---|---|
| Asbestos Fibre Identification | Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques.<br>*NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.* |
| Unknown Mineral Fibres | Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity.<br>*NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.* |
| Subsampling Soil Samples | The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed.<br>*NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.* |
| Bonded asbestos-containing material (ACM) | The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination.The resultant material is then further examined in accordance with AS 4964 - 2004.<br>*NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.* |
| Limit of Reporting | The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w).<br>The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk).<br>*NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos".This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.* |

**Project Name** Melbourne Innovation Centre
**Project ID** 640.30578.00100
**Date Sampled** Nov 23, 2022 to Dec 23, 2022
**Report** 943845-AID

| Client Sample ID | Eurofins Sample No. | Date Sampled | Sample Description | Result |
|---|---|---|---|---|
| 11-923 - Building 3A-3D - Mezzanine | 22-No0055763 | Nov 23, 2022 | Approximate Sample 1g<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Synthetic mineral fibres detected.<br>Organic fibres detected.<br>No trace asbestos detected. |
| 11-924 - Building 3A-3D - Mezzanine | 22-No0055764 | Nov 23, 2022 | Approximate Sample 2g<br>Sample consisted of: Dust | Chrysotile asbestos detected in fibre cement fragments of approximate size 5 x 5 x 2mm.<br><br>Synthetic mineral fibres detected.<br>Organic fibres detected. |
| 11-925 - Building 3A-3D - Mezzanine | 22-No0055765 | Nov 23, 2022 | Approximate Sample 5g<br>Sample consisted of: Dust | Chrysotile asbestos detected in the form of loose fibres of approximate size 5 x 5 x 2mm.<br><br>Synthetic mineral fibres detected.<br>Organic fibres detected. |
| 11-926 - Building 3A-3D - Mezzanine | 22-No0055766 | Nov 23, 2022 | Approximate Sample 1g<br>Sample consisted of: Dust | Chrysotile asbestos detected in the form of loose fibres of approximate size 10 x 5 x 1mm.<br><br>Synthetic mineral fibres detected.<br>Organic fibres detected. |
| 11-927 - Building 3A-3D - Mezzanine | 22-No0055767 | Nov 23, 2022 | Approximate Sample <1g<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Organic fibres detected.<br>No trace asbestos detected. |
| 11-928 - Building 3A-3D - Mezzanine | 22-No0055768 | Nov 23, 2022 | Approximate Sample <1g<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Organic fibres detected.<br>No trace asbestos detected. |

| Client Sample ID | Eurofins Sample No. | Date Sampled | Sample Description | Result |
|---|---|---|---|---|
| 11-929 - Building 3A-3D - Mezzanine | 22-No0055769 | Nov 23, 2022 | Approximate Sample <1g<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Synthetic mineral fibres detected.<br>Organic fibres detected.<br>No trace asbestos detected. |
| 11-930 - Building 3A-3D - Mezzanine | 22-No0055770 | Nov 23, 2022 | Approximate Sample <1g<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Organic fibres detected.<br>No trace asbestos detected. |
| 11-931 - Building 3A-3D - Mezzanine | 22-No0055771 | Nov 23, 2022 | Approximate Sample 2g<br>Sample consisted of: Dust | Chrysotile asbestos detected in the form of loose fibres of approximate size 10 x 5 x 1mm.<br><br>Synthetic mineral fibres detected.<br>Organic fibres detected. |
| 11-932 - Building 3A-3D - Mezzanine | 22-No0055772 | Dec 23, 2022 | Approximate Sample 3g<br>Sample consisted of: Dust | Chrysotile asbestos detected in the form of loose fibres of approximate size 5 x 5 x 2mm.<br><br>Synthetic mineral fibres detected.<br>Organic fibres detected. |

## Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

| Description | Testing Site | Extracted | Holding Time |
|---|---|---|---|
| Asbestos - LTM-ASB-8020 | Melbourne | Nov 23, 2022 | Indefinite |

eurofins

web: www.eurofins.com.au
email: EnviroSales@eurofins.com

**Eurofins Environment Testing Australia Pty Ltd**
ABN: 50 005 085 521

**Melbourne**
6 Monterey Road
Dandenong South
VIC 3175
Tel: +61 3 8564 5000
NATA# 1261 Site# 1254

**Geelong**
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261 Site# 1254

**Sydney**
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
NATA# 1261 Site# 18217

**Canberra**
Unit 1,2 Dacre Street
Mitchell
ACT 2911
Tel: +61 2 6113 8091

**Brisbane**
1/21 Smallwood Place
Murarrie
QLD 4172
Tel: +61 7 3902 4600
NATA# 1261 Site# 20794

**Newcastle**
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Tel: +61 2 4968 8448
NATA# 1261 Site# 25079

**Eurofins ARL Pty Ltd**
ABN: 91 05 0159 898

**Perth**
46-48 Banksia Road
Welshpool
WA 6106
Tel: +61 8 6253 4444
NATA# 2377 Site# 2370

**Eurofins Environment Testing NZ Ltd**
NZBN: 9429046024954

**Auckland**
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

**Christchurch**
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

**Company Name:** SLR Consulting (Vic)
**Address:** Suite 2, Grd Flr, 2 Domville Ave
Hawthorn
VIC 3122

**Project Name:** Melbourne Innovation Centre
**Project ID:** 640.30578.00100

**Order No.:**
**Report #:** 943845
**Phone:** 03 9249 9400
**Fax:**

**Received:** Nov 23, 2022 5:29 PM
**Due:** Nov 25, 2022
**Priority:** 2 Day
**Contact Name:** James Bracken

**Eurofins Analytical Services Manager : Harry Bacalis**

| Sample Detail | | | | | | Asbestos Absence /Presence |
|---|---|---|---|---|---|---|
| **Melbourne Laboratory - NATA # 1261 Site # 1254** | | | | | | X |
| **External Laboratory** | | | | | | |
| **No** | **Sample ID** | **Sample Date** | **Sampling Time** | **Matrix** | **LAB ID** | |
| 1 | 11-923 - Building 3A-3D -Mezzanine | Nov 23, 2022 | | Building Materials | M22-No0055763 | X |
| 2 | 11-924 - Building 3A-3D -Mezzanine | Nov 23, 2022 | | Building Materials | M22-No0055764 | X |
| 3 | 11-925 - Building 3A-3D -Mezzanine | Nov 23, 2022 | | Building Materials | M22-No0055765 | X |
| 4 | 11-926 - Building 3A-3D -Mezzanine | Nov 23, 2022 | | Building Materials | M22-No0055766 | X |
| 5 | 11-927 - Building 3A-3D -Mezzanine | Nov 23, 2022 | | Building Materials | M22-No0055767 | X |
| 6 | 11-928 - Building 3A-3D | Nov 23, 2022 | | Building Materials | M22-No0055768 | X |

eurofins

web: www.eurofins.com.au
email: EnviroSales@eurofins.com

**Eurofins Environment Testing Australia Pty Ltd**
ABN: 50 005 085 521

**Melbourne**
6 Monterey Road
Dandenong South
VIC 3175
Tel: +61 3 8564 5000
NATA# 1261 Site# 1254

**Geelong**
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261 Site# 1254

**Sydney**
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
NATA# 1261 Site# 18217

**Canberra**
Unit 1,2 Dacre Street
Mitchell
ACT 2911
Tel: +61 2 6113 8091

**Brisbane**
1/21 Smallwood Place
Murarrie
QLD 4172
Tel: +61 7 3902 4600
NATA# 1261 Site# 20794

**Newcastle**
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Tel: +61 2 4968 8448
NATA# 1261 Site# 25079

**Eurofins ARL Pty Ltd**
ABN: 91 05 0159 898

**Perth**
46-48 Banksia Road
Welshpool
WA 6106
Tel: +61 8 6253 4444
NATA# 2377 Site# 2370

**Eurofins Environment Testing NZ Ltd**
NZBN: 9429046024954

**Auckland**
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

**Christchurch**
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

**Company Name:** SLR Consulting (Vic)
**Address:** Suite 2, Grd Flr, 2 Domville Ave
Hawthorn
VIC 3122

**Project Name:** Melbourne Innovation Centre
**Project ID:** 640.30578.00100

**Order No.:**
**Report #:** 943845
**Phone:** 03 9249 9400
**Fax:**

**Received:** Nov 23, 2022 5:29 PM
**Due:** Nov 25, 2022
**Priority:** 2 Day
**Contact Name:** James Bracken

**Eurofins Analytical Services Manager : Harry Bacalis**

| Sample Detail | | | | | | Asbestos Absence /Presence |
|---|---|---|---|---|---|---|
| **Melbourne Laboratory - NATA # 1261 Site # 1254** | | | | | | X |
| | -Mezzanine | | | | | |
| 7 | 11-929 - Building 3A-3D -Mezzanine | Nov 23, 2022 | | Building Materials | M22-No0055769 | X |
| 8 | 11-930 - Building 3A-3D -Mezzanine | Nov 23, 2022 | | Building Materials | M22-No0055770 | X |
| 9 | 11-931 - Building 3A-3D -Mezzanine | Nov 23, 2022 | | Building Materials | M22-No0055771 | X |
| 10 | 11-932 - Building 3A-3D -Mezzanine | Dec 23, 2022 | | Building Materials | M22-No0055772 | X |
| **Test Counts** | | | | | | 10 |

## Internal Quality Control Review and Glossary General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. Information identified on this report with the colour **blue** indicates data provided by customer that may have an impact on the results.
5. Information identified on this report with the colour **orange** indicates sections of the report not covered by the laboratory's scope of NATA accreditation.
6. This report replaces any interim results previously issued.

## Holding Times

Please refer to the most recent version of the 'Sample Preservation and Container Guide' for holding times (QS3001).
If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported. Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

## Units

| | |
|---|---|
| % w/w: | Percentage weight-for-weight basis, e.g. of asbestos in asbestos-containing finds in soil samples (**% w/w**) |
| F/fld | Airborne fibre filter loading as Fibres (**N**) per Fields counted (**n**) |
| F/mL | Airborne fibre reported concentration as Fibres per millilitre of air drawn over the sampler membrane (**C**) |
| g, kg | Mass, e.g. of whole sample (**M**) or asbestos-containing find within the sample (**m**) |
| g/kg | Concentration in grams per kilogram |
| L, mL | Volume, e.g. of air as measured in AFM (**V** = **r** x **t**) |
| L/min | Airborne fibre sampling Flowrate as litres per minute of air drawn over the sampler membrane (**r**) |
| min | Time (**t**), e.g. of air sample collection period |

## Calculations

Airborne Fibre Concentration: $C = \left(\frac{A}{a}\right) \times \left(\frac{N}{n}\right) \times \left(\frac{1}{r}\right) \times \left(\frac{1}{t}\right) = K \times \left(\frac{N}{n}\right) \times \left(\frac{1}{V}\right)$

Asbestos Content (as asbestos): $\%\, w/w = \frac{(m \times P_A)}{M}$

Weighted Average (of asbestos): $\%_{WA} = \sum \frac{(m \times P_A)_x}{x}$

## Terms

| | |
|---|---|
| **%asbestos** | Estimated percentage of asbestos in a given matrix. May be derived from knowledge or experience of the material, informed by HSG264 *Appendix 2*, else assumed to be 15% in accordance with WA DOH *Appendix 2* (**$P_A$**). |
| **ACM** | Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded (non-friable) condition. For the purposes of the NEPM and WA DOH, ACM corresponds to material larger than 7 mm x 7 mm. |
| **AF** | Asbestos Fines. Asbestos contamination within a soil sample, as defined by WA DOH. Includes loose fibre bundles and small pieces of friable and non-friable material such as asbestos cement fragments mixed with soil. Considered under the NEPM as equivalent to "non-bonded / friable". |
| **AFM** | Airborne Fibre Monitoring, e.g. by the MFM. |
| **Amosite** | Amosite Asbestos Detected. Amosite may also refer to Fibrous Grunerite or Brown Asbestos. Identified in accordance with AS 4964-2004. |
| **AS** | Australian Standard. |
| **Asbestos Content (as asbestos)** | Total % w/w asbestos content in asbestos-containing finds in a soil sample (**% w/w**). |
| **Chrysotile** | Chrysotile Asbestos Detected. Chrysotile may also refer to Fibrous Serpentine or White Asbestos. Identified in accordance with AS 4964-2004. |
| **COC** | Chain of Custody. |
| **Crocidolite** | Crocidolite Asbestos Detected. Crocidolite may also refer to Fibrous Riebeckite or Blue Asbestos. Identified in accordance with AS 4964-2004. |
| **Dry** | Sample is dried by heating prior to analysis. |
| **DS** | Dispersion Staining. Technique required for Unequivocal Identification of asbestos fibres by PLM. |
| **FA** | Fibrous Asbestos. Asbestos containing material that is wholly or in part friable, including materials with higher asbestos content with a propensity to become friable with handling, and any material that was previously non-friable and in a severely degraded condition. For the purposes of the NEPM and WA DOH, FA generally corresponds to material larger than 7 mm x 7 mm, although FA may be more difficult to visibly distinguish and may be assessed as AF. |
| **Fibre Count** | Total of all fibres (whether asbestos or not) meeting the counting criteria set out in the NOHSC:3003 |
| **Fibre ID** | Fibre Identification. Unequivocal identification of asbestos fibres according to AS 4964-2004. Includes Chrysotile, Amosite (Grunerite) or Crocidolite asbestos. |
| **Friable** | Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory's remit to assess degree of friability. |
| **HSG248** | UK HSE HSG248, *Asbestos: The Analysts Guide*, 2nd Edition (2021). |
| **HSG264** | UK HSE HSG264, *Asbestos: The Survey Guide* (2012). |
| **ISO (also ISO/IEC)** | International Organization for Standardization / International Electrotechnical Commission. |
| **K Factor** | Microscope constant (**K**) as derived from the effective filter area of the given AFM membrane used for collecting the sample (**A**) and the projected eyepiece graticule area of the specific microscope used for the analysis (**a**). |
| **LOR** | Limit of Reporting. |
| **MFM (also NOHSC:3003)** | Membrane Filter Method. As described by the Australian Government National Occupational Health and Safety Commission, *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres*, 2nd Edition [NOHSC:3003(2005)]. |
| **NEPM (also ASC NEPM)** | National Environment Protection (Assessment of Site Contamination) Measure, (2013, as amended). |
| **Organic** | Organic Fibres Detected. Organic may refer to Natural or Man-Made Polymeric Fibres. Identified in accordance with AS 4964-2004. |
| **PCM** | Phase Contrast Microscopy. As used for Fibre Counting according to the MFM. |
| **PLM** | Polarised Light Microscopy. As used for Fibre Identification and Trace Analysis according to AS 4964-2004. |
| **SMF** | Synthetic Mineral Fibre Detected. SMF may also refer to Man Made Vitreous Fibres. Identified in accordance with AS 4964-2004. |
| **SRA** | Sample Receipt Advice. |
| **Trace Analysis** | Analytical procedure used to detect the presence of respirable fibres (particularly asbestos) in a given sample matrix. |
| **UK HSE HSG** | United Kingdom, Health and Safety Executive, Health and Safety Guidance, publication. |
| **UMF** | Unidentified Mineral Fibre Detected. Fibrous minerals that are detected but have not been unequivocally identified by PLM with DS according the AS 4964-2004. May include (but not limited to) Actinolite, Anthophyllite or Tremolite asbestos. |
| **WA DOH** | Reference document for the NEPM. Government of Western Australia, *Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia* (updated 2021), including Appendix Four: *Laboratory analysis* |
| **Weighted Average** | Combined average % w/w asbestos content of all asbestos-containing finds in the given aliquot or total soil sample (**$\%_{WA}$**). |

## Comments

### Sample Integrity

| | |
|---|---|
| Custody Seals Intact (if used) | N/A |
| Attempt to Chill was evident | N/A |
| Sample correctly preserved | Yes |
| Appropriate sample containers have been used | Yes |
| Sample containers for volatile analysis received with minimal headspace | Yes |
| Samples received within HoldingTime | Yes |
| Some samples have been subcontracted | No |

### Asbestos Counter/Identifier:

| | |
|---|---|
| Hiren Patel | Senior Analyst-Asbestos |

### Authorised by:

| | |
|---|---|
| Sheha Prakash | Senior Analyst-Asbestos |

**Glenn Jackson**
**General Manager**

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

**SLR Consulting (Vic)**
**Suite 2, Grd Flr, 2 Domville Ave**
**Hawthorn**
**VIC 3122**

**NATA Accredited**
**Accreditation Number 1261**
**Site Number 1254**

Accredited for compliance with ISO/IEC 17025–Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

| | |
|---|---|
| **Attention:** | James Bracken |
| **Report** | 944474-AID |
| **Project Name** | Melbourne Innovation Centre |
| **Project ID** | 640.30578.00100 |
| **Received Date** | Nov 25, 2022 |
| **Date Reported** | Nov 28, 2022 |

## Methodology:

| | |
|---|---|
| Asbestos Fibre Identification | Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques.<br>*NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.* |
| Unknown Mineral Fibres | Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity.<br>*NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.* |
| Subsampling Soil Samples | The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed.<br>*NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.* |
| Bonded asbestos-containing material (ACM) | The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination.The resultant material is then further examined in accordance with AS 4964 - 2004.<br>*NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.* |
| Limit of Reporting | The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w).<br>The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk).<br>*NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos".This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.* |

**Project Name** Melbourne Innovation Centre
**Project ID** 640.30578.00100
**Date Sampled** Nov 23, 2022 to Dec 24, 2022
**Report** 944474-AID

| Client Sample ID | Eurofins Sample No. | Date Sampled | Sample Description | Result |
|---|---|---|---|---|
| 11-933 - Building 3A-3D - Plants | 22-No0060980 | Nov 23, 2022 | Approximate Sample 4g / -mm<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Synthetic mineral fibre detected.<br>Organic fibre detected.<br>No trace asbestos detected. |
| 11-934 - Building 3A-3D - Plants | 22-No0060981 | Nov 23, 2022 | Approximate Sample 3g / -mm<br>Sample consisted of: Dust | Chrysotile asbestos detected in the form of cement sheet fragment.<br>Approximate dimensions: 6 x 3 x 1mm.<br><br>Organic fibre detected.<br>Synthetic mineral fibre detected.<br>No trace asbestos detected. |
| 11-935 - Building 3A-3D - Plants | 22-No0060982 | Nov 23, 2022 | Approximate Sample 3g / -mm<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Synthetic mineral fibre detected.<br>Organic fibre detected.<br>No trace asbestos detected. |
| 11-936 - Building 3A-3D - Plants | 22-No0060983 | Nov 23, 2022 | Approximate Sample 3g / -mm<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Synthetic mineral fibre detected.<br>Organic fibre detected.<br>No trace asbestos detected. |
| 11-941 - Building 3A-3D - Mezzanine -North Stairs | 22-No0060984 | Nov 23, 2022 | Approximate Sample 2g / -mm<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Synthetic mineral fibre detected.<br>Organic fibre detected.<br>No trace asbestos detected. |
| 11-942 - Building 3A-3D - Breweries - Corridor | 22-No0060985 | Nov 23, 2022 | Approximate Sample 2g / -mm<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Organic fibre detected.<br>No trace asbestos detected. |

| Client Sample ID | Eurofins Sample No. | Date Sampled | Sample Description | Result |
|---|---|---|---|---|
| 11-943 - Building 3A-3D - Breweries -Corridor | 22-No0060986 | Nov 23, 2022 | Approximate Sample 2g / -mm<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Organic fibre detected.<br>No trace asbestos detected. |
| 11-937 - Building 3A-3D - Spray Booth | 22-No0060987 | Nov 24, 2022 | Approximate Sample 1g / -mm<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Organic fibre detected.<br>No trace asbestos detected. |
| 11-938 - Building 3A-3D - Spray Booth | 22-No0060988 | Nov 24, 2022 | Approximate Sample 1g / -mm<br>Sample consisted of: Dust | Chrysotile asbestos detected in the form of cement sheet fragment.<br>Approximate dimensions: 5 x 1 x 1mm.<br><br>Organic fibre detected.<br>No trace asbestos detected. |
| 11-939 - Building 3A-3D - Spray Booth | 22-No0060989 | Dec 24, 2022 | Approximate Sample 1g / -mm<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Organic fibre detected.<br>No trace asbestos detected. |

## Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

| Description | Testing Site | Extracted | Holding Time |
|---|---|---|---|
| Asbestos - LTM-ASB-8020 | Melbourne | Nov 25, 2022 | Indefinite |

eurofins

web: www.eurofins.com.au
email: EnviroSales@eurofins.com

**Eurofins Environment Testing Australia Pty Ltd**
ABN: 50 005 085 521

**Melbourne**
6 Monterey Road
Dandenong South
VIC 3175
Tel: +61 3 8564 5000
NATA# 1261 Site# 1254

**Geelong**
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261 Site# 1254

**Sydney**
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
NATA# 1261 Site# 18217

**Canberra**
Unit 1,2 Dacre Street
Mitchell
ACT 2911
Tel: +61 2 6113 8091

**Brisbane**
1/21 Smallwood Place
Murarrie
QLD 4172
Tel: +61 7 3902 4600
NATA# 1261 Site# 20794

**Newcastle**
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Tel: +61 2 4968 8448
NATA# 1261 Site# 25079

**Eurofins ARL Pty Ltd**
ABN: 91 05 0159 898

**Perth**
46-48 Banksia Road
Welshpool
WA 6106
Tel: +61 8 6253 4444
NATA# 2377 Site# 2370

**Eurofins Environment Testing NZ Ltd**
NZBN: 9429046024954

**Auckland**
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

**Christchurch**
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

**Company Name:** SLR Consulting (Vic)
**Address:** Suite 2, Grd Flr, 2 Domville Ave
Hawthorn
VIC 3122

**Project Name:** Melbourne Innovation Centre
**Project ID:** 640.30578.00100

**Order No.:**
**Report #:** 944474
**Phone:** 03 9249 9400
**Fax:**

**Received:** Nov 25, 2022 10:30 AM
**Due:** Nov 28, 2022
**Priority:** 1 Day
**Contact Name:** James Bracken

**Eurofins Analytical Services Manager : Harry Bacalis**

| Sample Detail | | | | | | Asbestos Absence /Presence |
|---|---|---|---|---|---|---|
| **Melbourne Laboratory - NATA # 1261 Site # 1254** | | | | | | X |
| **External Laboratory** | | | | | | |
| **No** | **Sample ID** | **Sample Date** | **Sampling Time** | **Matrix** | **LAB ID** | |
| 1 | 11-933 - Building 3A-3D - Plants | Nov 23, 2022 | | Building Materials | M22-No0060980 | X |
| 2 | 11-934 - Building 3A-3D - Plants | Nov 23, 2022 | | Building Materials | M22-No0060981 | X |
| 3 | 11-935 - Building 3A-3D -Plants | Nov 23, 2022 | | Building Materials | M22-No0060982 | X |
| 4 | 11-936 - Building 3A-3D - Plants | Nov 23, 2022 | | Building Materials | M22-No0060983 | X |
| 5 | 11-941 - Building 3A-3D - Mezzanine - North Stairs | Nov 23, 2022 | | Building Materials | M22-No0060984 | X |
| 6 | 11-942 - | Nov 23, 2022 | | Building | M22-No0060985 | X |

eurofins

web: www.eurofins.com.au
email: EnviroSales@eurofins.com

**Eurofins Environment Testing Australia Pty Ltd**
ABN: 50 005 085 521

**Melbourne**
6 Monterey Road
Dandenong South
VIC 3175
Tel: +61 3 8564 5000
NATA# 1261 Site# 1254

**Geelong**
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261 Site# 1254

**Sydney**
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
NATA# 1261 Site# 18217

**Canberra**
Unit 1,2 Dacre Street
Mitchell
ACT 2911
Tel: +61 2 6113 8091

**Brisbane**
1/21 Smallwood Place
Murarrie
QLD 4172
Tel: +61 7 3902 4600
NATA# 1261 Site# 20794

**Newcastle**
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Tel: +61 2 4968 8448
NATA# 1261 Site# 25079

**Eurofins ARL Pty Ltd**
ABN: 91 05 0159 898

**Perth**
46-48 Banksia Road
Welshpool
WA 6106
Tel: +61 8 6253 4444
NATA# 2377 Site# 2370

**Eurofins Environment Testing NZ Ltd**
NZBN: 9429046024954

**Auckland**
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

**Christchurch**
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

**Company Name:** SLR Consulting (Vic)
**Address:** Suite 2, Grd Flr, 2 Domville Ave
Hawthorn
VIC 3122

**Project Name:** Melbourne Innovation Centre
**Project ID:** 640.30578.00100

**Order No.:**
**Report #:** 944474
**Phone:** 03 9249 9400
**Fax:**

**Received:** Nov 25, 2022 10:30 AM
**Due:** Nov 28, 2022
**Priority:** 1 Day
**Contact Name:** James Bracken

**Eurofins Analytical Services Manager : Harry Bacalis**

| Sample Detail | | | | | | Asbestos Absence /Presence |
|---|---|---|---|---|---|---|
| **Melbourne Laboratory - NATA # 1261 Site # 1254** | | | | | | X |
| | Building 3A-3D - Breweries - Corridor | | | Materials | | |
| 7 | 11-943 - Building 3A-3D - Breweries - Corridor | Nov 23, 2022 | | Building Materials | M22-No0060986 | X |
| 8 | 11-937 - Building 3A-3D - Spray Booth | Nov 24, 2022 | | Building Materials | M22-No0060987 | X |
| 9 | 11-938 - Building 3A-3D - Spray Booth | Nov 24, 2022 | | Building Materials | M22-No0060988 | X |
| 10 | 11-939 - Building 3A-3D - Spray Booth | Dec 24, 2022 | | Building Materials | M22-No0060989 | X |
| **Test Counts** | | | | | | 10 |

## Internal Quality Control Review and Glossary General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. Information identified on this report with the colour **blue** indicates data provided by customer that may have an impact on the results.
5. Information identified on this report with the colour **orange** indicates sections of the report not covered by the laboratory's scope of NATA accreditation.
6. This report replaces any interim results previously issued.

## Holding Times

Please refer to the most recent version of the 'Sample Preservation and Container Guide' for holding times (QS3001).
If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported. Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

## Units

| | |
|---|---|
| % w/w: | Percentage weight-for-weight basis, e.g. of asbestos in asbestos-containing finds in soil samples (**% w/w**) |
| F/fld | Airborne fibre filter loading as Fibres (**N**) per Fields counted (**n**) |
| F/mL | Airborne fibre reported concentration as Fibres per millilitre of air drawn over the sampler membrane (**C**) |
| g, kg | Mass, e.g. of whole sample (**M**) or asbestos-containing find within the sample (**m**) |
| g/kg | Concentration in grams per kilogram |
| L, mL | Volume, e.g. of air as measured in AFM (**V** = **r** x **t**) |
| L/min | Airborne fibre sampling Flowrate as litres per minute of air drawn over the sampler membrane (**r**) |
| min | Time (**t**), e.g. of air sample collection period |

## Calculations

Airborne Fibre Concentration: $C = \left(\frac{A}{a}\right) \times \left(\frac{N}{n}\right) \times \left(\frac{1}{r}\right) \times \left(\frac{1}{t}\right) = K \times \left(\frac{N}{n}\right) \times \left(\frac{1}{V}\right)$

Asbestos Content (as asbestos): $\%\, w/w = \frac{(m \times P_A)}{M}$

Weighted Average (of asbestos): $\%_{WA} = \sum \frac{(m \times P_A)_x}{x}$

## Terms

| | |
|---|---|
| **%asbestos** | Estimated percentage of asbestos in a given matrix. May be derived from knowledge or experience of the material, informed by HSG264 *Appendix 2*, else assumed to be 15% in accordance with WA DOH *Appendix 2* (**$P_A$**). |
| **ACM** | Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded (non-friable) condition. For the purposes of the NEPM and WA DOH, ACM corresponds to material larger than 7 mm x 7 mm. |
| **AF** | Asbestos Fines. Asbestos contamination within a soil sample, as defined by WA DOH. Includes loose fibre bundles and small pieces of friable and non-friable material such as asbestos cement fragments mixed with soil. Considered under the NEPM as equivalent to "non-bonded / friable". |
| **AFM** | Airborne Fibre Monitoring, e.g. by the MFM. |
| **Amosite** | Amosite Asbestos Detected. Amosite may also refer to Fibrous Grunerite or Brown Asbestos. Identified in accordance with AS 4964-2004. |
| **AS** | Australian Standard. |
| **Asbestos Content (as asbestos)** | Total % w/w asbestos content in asbestos-containing finds in a soil sample (**% w/w**). |
| **Chrysotile** | Chrysotile Asbestos Detected. Chrysotile may also refer to Fibrous Serpentine or White Asbestos. Identified in accordance with AS 4964-2004. |
| **COC** | Chain of Custody. |
| **Crocidolite** | Crocidolite Asbestos Detected. Crocidolite may also refer to Fibrous Riebeckite or Blue Asbestos. Identified in accordance with AS 4964-2004. |
| **Dry** | Sample is dried by heating prior to analysis. |
| **DS** | Dispersion Staining. Technique required for Unequivocal Identification of asbestos fibres by PLM. |
| **FA** | Fibrous Asbestos. Asbestos containing material that is wholly or in part friable, including materials with higher asbestos content with a propensity to become friable with handling, and any material that was previously non-friable and in a severely degraded condition. For the purposes of the NEPM and WA DOH, FA generally corresponds to material larger than 7 mm x 7 mm, although FA may be more difficult to visibly distinguish and may be assessed as AF. |
| **Fibre Count** | Total of all fibres (whether asbestos or not) meeting the counting criteria set out in the NOHSC:3003 |
| **Fibre ID** | Fibre Identification. Unequivocal identification of asbestos fibres according to AS 4964-2004. Includes Chrysotile, Amosite (Grunerite) or Crocidolite asbestos. |
| **Friable** | Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory's remit to assess degree of friability. |
| **HSG248** | UK HSE HSG248, *Asbestos: The Analysts Guide*, 2nd Edition (2021). |
| **HSG264** | UK HSE HSG264, *Asbestos: The Survey Guide* (2012). |
| **ISO (also ISO/IEC)** | International Organization for Standardization / International Electrotechnical Commission. |
| **K Factor** | Microscope constant (**K**) as derived from the effective filter area of the given AFM membrane used for collecting the sample (**A**) and the projected eyepiece graticule area of the specific microscope used for the analysis (**a**). |
| **LOR** | Limit of Reporting. |
| **MFM (also NOHSC:3003)** | Membrane Filter Method. As described by the Australian Government National Occupational Health and Safety Commission, *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres*, 2nd Edition [NOHSC:3003(2005)]. |
| **NEPM (also ASC NEPM)** | National Environment Protection (Assessment of Site Contamination) Measure, (2013, as amended). |
| **Organic** | Organic Fibres Detected. Organic may refer to Natural or Man-Made Polymeric Fibres. Identified in accordance with AS 4964-2004. |
| **PCM** | Phase Contrast Microscopy. As used for Fibre Counting according to the MFM. |
| **PLM** | Polarised Light Microscopy. As used for Fibre Identification and Trace Analysis according to AS 4964-2004. |
| **SMF** | Synthetic Mineral Fibre Detected. SMF may also refer to Man Made Vitreous Fibres. Identified in accordance with AS 4964-2004. |
| **SRA** | Sample Receipt Advice. |
| **Trace Analysis** | Analytical procedure used to detect the presence of respirable fibres (particularly asbestos) in a given sample matrix. |
| **UK HSE HSG** | United Kingdom, Health and Safety Executive, Health and Safety Guidance, publication. |
| **UMF** | Unidentified Mineral Fibre Detected. Fibrous minerals that are detected but have not been unequivocally identified by PLM with DS according the AS 4964-2004. May include (but not limited to) Actinolite, Anthophyllite or Tremolite asbestos. |
| **WA DOH** | Reference document for the NEPM. Government of Western Australia, *Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia* (updated 2021), including Appendix Four: *Laboratory analysis* |
| **Weighted Average** | Combined average % w/w asbestos content of all asbestos-containing finds in the given aliquot or total soil sample (**$\%_{WA}$**). |

## Comments

### Sample Integrity

| | |
|---|---|
| Custody Seals Intact (if used) | N/A |
| Attempt to Chill was evident | N/A |
| Sample correctly preserved | Yes |
| Appropriate sample containers have been used | Yes |
| Sample containers for volatile analysis received with minimal headspace | Yes |
| Samples received within HoldingTime | Yes |
| Some samples have been subcontracted | No |

### Asbestos Counter/Identifier:

| | |
|---|---|
| Hiren Patel | Senior Analyst-Asbestos |

### Authorised by:

| | |
|---|---|
| Zoe Burke | Senior Analyst-Asbestos |

**Glenn Jackson**
**General Manager**

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

# Certificate of Analysis

**NATA Accredited**
**Accreditation Number 1261**
**Site Number 1254**

Accredited for compliance with ISO/IEC 17025–Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

**SLR Consulting (Vic)**
**Suite 2, Grd Flr, 2 Domville Ave**
**Hawthorn**
**VIC 3122**

| | |
|---|---|
| **Attention:** | James Bracken |
| **Report** | 944476-AID |
| **Project Name** | Melbourne Innovation Centre |
| **Project ID** | 640.30578.00100 |
| **Received Date** | Nov 25, 2022 |
| **Date Reported** | Nov 28, 2022 |

## Methodology:

| | |
|---|---|
| Asbestos Fibre Identification | Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques.<br>*NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.* |
| Unknown Mineral Fibres | Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity.<br>*NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.* |
| Subsampling Soil Samples | The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed.<br>*NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.* |
| Bonded asbestos-containing material (ACM) | The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination.The resultant material is then further examined in accordance with AS 4964 - 2004.<br>*NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.* |
| Limit of Reporting | The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w).<br>The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk).<br>*NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos".This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.* |

**Project Name** Melbourne Innovation Centre
**Project ID** 640.30578.00100
**Date Sampled** Nov 24, 2022 to Dec 24, 2022
**Report** 944476-AID

| Client Sample ID | Eurofins Sample No. | Date Sampled | Sample Description | Result |
|---|---|---|---|---|
| 11-940 - Building 3A-3D - Spray Booth | 22-No0060990 | Nov 24, 2022 | Approximate Sample 30g / -mm<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Organic fibre detected.<br>No trace asbestos detected. |
| 11-944 - Building 3A-3D - Garage | 22-No0060991 | Nov 24, 2022 | Approximate Sample 2g / -mm<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Synthetic mineral fibre detected.<br>Organic fibre detected.<br>No trace asbestos detected. |
| 11-945 - Building 3A-3D - Garage | 22-No0060992 | Nov 24, 2022 | Approximate Sample 2g / -mm<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Synthetic mineral fibre detected.<br>Organic fibre detected.<br>No trace asbestos detected. |
| 11-946 - Building 3A-3D - Garage | 22-No0060993 | Nov 24, 2022 | Approximate Sample 4g / -mm<br>Sample consisted of: Dust | Chrysotile asbestos detected in the form of loose fibre bundle.<br>Approximate dimensions: 5 x 2 x 1mm.<br><br>Organic fibre detected.<br>Synthetic mineral fibre detected.<br>No trace asbestos detected. |
| 11-947 - Building 3A-3D - Garage | 22-No0060994 | Nov 24, 2022 | Approximate Sample 2g / -mm<br>Sample consisted of: Dust | Chrysotile asbestos detected in the form of fibre cement fragment.<br>Approximate dimension: 5 x 1 x 1mm.<br><br>Organic fibre detected.<br>Synthetic mineral fibre detected.<br>No trace asbestos detected. |
| 11-948 - Building 3A-3D - Garage | 22-No0060995 | Nov 24, 2022 | Approximate Sample 2g / -mm<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Synthetic mineral fibre detected.<br>Organic fibre detected.<br>No trace asbestos detected. |

| Client Sample ID | Eurofins Sample No. | Date Sampled | Sample Description | Result |
|---|---|---|---|---|
| 11-949 - Building 3A-3D - Garage | 22-No0060996 | Nov 24, 2022 | Approximate Sample <1g / -mm<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Organic fibre detected.<br>No trace asbestos detected. |
| 11-950 - Building 3A-3D - Garage | 22-No0060997 | Nov 24, 2022 | Approximate Sample 4g / -mm<br>Sample consisted of: Dust | Chrysotile asbestos detected in the form of loose fibre bundle.<br>Approximate dimension: 10 x 2 x 1mm.<br><br>Organic fibre detected.<br>Synthetic mineral fibre detected.<br>No trace asbestos detected. |
| 11-951 - Building 3A-3D - Garage | 22-No0060998 | Nov 24, 2022 | Approximate Sample <1g / -mm<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Organic fibre detected.<br>No trace asbestos detected. |
| 11-952 - Building 3A-3D - Garage | 22-No0060999 | Dec 24, 2022 | Approximate Sample 5g / -mm<br>Sample consisted of: Dust | Chrysotile asbestos detected in the form of loose fibre bundle.<br>Approximate dimension: 5 x 2 x 1mm.<br><br>Organic fibre detected.<br>Synthetic mineral fibre detected.<br>No trace asbestos detected. |

## Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

| Description | Testing Site | Extracted | Holding Time |
|---|---|---|---|
| Asbestos - LTM-ASB-8020 | Melbourne | Nov 25, 2022 | Indefinite |

eurofins

web: www.eurofins.com.au
email: EnviroSales@eurofins.com

**Eurofins Environment Testing Australia Pty Ltd**
ABN: 50 005 085 521

**Melbourne**
6 Monterey Road
Dandenong South
VIC 3175
Tel: +61 3 8564 5000
NATA# 1261 Site# 1254

**Geelong**
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261 Site# 1254

**Sydney**
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
NATA# 1261 Site# 18217

**Canberra**
Unit 1,2 Dacre Street
Mitchell
ACT 2911
Tel: +61 2 6113 8091

**Brisbane**
1/21 Smallwood Place
Murarrie
QLD 4172
Tel: +61 7 3902 4600
NATA# 1261 Site# 20794

**Newcastle**
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Tel: +61 2 4968 8448
NATA# 1261 Site# 25079

**Eurofins ARL Pty Ltd**
ABN: 91 05 0159 898

**Perth**
46-48 Banksia Road
Welshpool
WA 6106
Tel: +61 8 6253 4444
NATA# 2377 Site# 2370

**Eurofins Environment Testing NZ Ltd**
NZBN: 9429046024954

**Auckland**
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

**Christchurch**
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

**Company Name:** SLR Consulting (Vic)
**Address:** Suite 2, Grd Flr, 2 Domville Ave
Hawthorn
VIC 3122

**Project Name:** Melbourne Innovation Centre
**Project ID:** 640.30578.00100

**Order No.:**
**Report #:** 944476
**Phone:** 03 9249 9400
**Fax:**

**Received:** Nov 25, 2022 10:30 AM
**Due:** Nov 28, 2022
**Priority:** 1 Day
**Contact Name:** James Bracken

**Eurofins Analytical Services Manager : Harry Bacalis**

| Sample Detail | | | | | | Asbestos Absence /Presence |
|---|---|---|---|---|---|---|
| **Melbourne Laboratory - NATA # 1261 Site # 1254** | | | | | | X |
| **External Laboratory** | | | | | | |
| **No** | **Sample ID** | **Sample Date** | **Sampling Time** | **Matrix** | **LAB ID** | |
| 1 | 11-940 - Building 3A-3D - Spray Booth | Nov 24, 2022 | | Building Materials | M22-No0060990 | X |
| 2 | 11-944 - Building 3A-3D - Garage | Nov 24, 2022 | | Building Materials | M22-No0060991 | X |
| 3 | 11-945 - Building 3A-3D - Garage | Nov 24, 2022 | | Building Materials | M22-No0060992 | X |
| 4 | 11-946 - Building 3A-3D - Garage | Nov 24, 2022 | | Building Materials | M22-No0060993 | X |
| 5 | 11-947 - Building 3A-3D - Garage | Nov 24, 2022 | | Building Materials | M22-No0060994 | X |
| 6 | 11-948 - Building 3A-3D | Nov 24, 2022 | | Building Materials | M22-No0060995 | X |

eurofins

web: www.eurofins.com.au
email: EnviroSales@eurofins.com

**Eurofins Environment Testing Australia Pty Ltd**
ABN: 50 005 085 521

**Melbourne**
6 Monterey Road
Dandenong South
VIC 3175
Tel: +61 3 8564 5000
NATA# 1261 Site# 1254

**Geelong**
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261 Site# 1254

**Sydney**
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
NATA# 1261 Site# 18217

**Canberra**
Unit 1,2 Dacre Street
Mitchell
ACT 2911
Tel: +61 2 6113 8091

**Brisbane**
1/21 Smallwood Place
Murarrie
QLD 4172
Tel: +61 7 3902 4600
NATA# 1261 Site# 20794

**Newcastle**
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Tel: +61 2 4968 8448
NATA# 1261 Site# 25079

**Eurofins ARL Pty Ltd**
ABN: 91 05 0159 898

**Perth**
46-48 Banksia Road
Welshpool
WA 6106
Tel: +61 8 6253 4444
NATA# 2377 Site# 2370

**Eurofins Environment Testing NZ Ltd**
NZBN: 9429046024954

**Auckland**
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

**Christchurch**
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

**Company Name:** SLR Consulting (Vic)
**Address:** Suite 2, Grd Flr, 2 Domville Ave
Hawthorn
VIC 3122

**Project Name:** Melbourne Innovation Centre
**Project ID:** 640.30578.00100

**Order No.:**
**Report #:** 944476
**Phone:** 03 9249 9400
**Fax:**

**Received:** Nov 25, 2022 10:30 AM
**Due:** Nov 28, 2022
**Priority:** 1 Day
**Contact Name:** James Bracken

**Eurofins Analytical Services Manager : Harry Bacalis**

| Sample Detail | | | | | | Asbestos Absence /Presence |
|---|---|---|---|---|---|---|
| **Melbourne Laboratory - NATA # 1261 Site # 1254** | | | | | | X |
| | - Garage | | | | | |
| 7 | 11-949 - Building 3A-3D - Garage | Nov 24, 2022 | | Building Materials | M22-No0060996 | X |
| 8 | 11-950 - Building 3A-3D - Garage | Nov 24, 2022 | | Building Materials | M22-No0060997 | X |
| 9 | 11-951 - Building 3A-3D - Garage | Nov 24, 2022 | | Building Materials | M22-No0060998 | X |
| 10 | 11-952 - Building 3A-3D - Garage | Dec 24, 2022 | | Building Materials | M22-No0060999 | X |
| **Test Counts** | | | | | | 10 |

## Internal Quality Control Review and Glossary General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. Information identified on this report with the colour **blue** indicates data provided by customer that may have an impact on the results.
5. Information identified on this report with the colour **orange** indicates sections of the report not covered by the laboratory's scope of NATA accreditation.
6. This report replaces any interim results previously issued.

## Holding Times

Please refer to the most recent version of the 'Sample Preservation and Container Guide' for holding times (QS3001).
If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported. Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

## Units

| | |
|---|---|
| % w/w: | Percentage weight-for-weight basis, e.g. of asbestos in asbestos-containing finds in soil samples (**% w/w**) |
| F/fld | Airborne fibre filter loading as Fibres (**N**) per Fields counted (**n**) |
| F/mL | Airborne fibre reported concentration as Fibres per millilitre of air drawn over the sampler membrane (**C**) |
| g, kg | Mass, e.g. of whole sample (**M**) or asbestos-containing find within the sample (**m**) |
| g/kg | Concentration in grams per kilogram |
| L, mL | Volume, e.g. of air as measured in AFM (**V** = **r** x **t**) |
| L/min | Airborne fibre sampling Flowrate as litres per minute of air drawn over the sampler membrane (**r**) |
| min | Time (**t**), e.g. of air sample collection period |

## Calculations

Airborne Fibre Concentration: $C = \left(\frac{A}{a}\right) \times \left(\frac{N}{n}\right) \times \left(\frac{1}{r}\right) \times \left(\frac{1}{t}\right) = K \times \left(\frac{N}{n}\right) \times \left(\frac{1}{V}\right)$

Asbestos Content (as asbestos): $\%\, w/w = \frac{(m \times P_A)}{M}$

Weighted Average (of asbestos): $\%_{WA} = \sum \frac{(m \times P_A)_x}{x}$

## Terms

| | |
|---|---|
| **%asbestos** | Estimated percentage of asbestos in a given matrix. May be derived from knowledge or experience of the material, informed by HSG264 *Appendix 2*, else assumed to be 15% in accordance with WA DOH *Appendix 2* (**$P_A$**). |
| **ACM** | Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded (non-friable) condition. For the purposes of the NEPM and WA DOH, ACM corresponds to material larger than 7 mm x 7 mm. |
| **AF** | Asbestos Fines. Asbestos contamination within a soil sample, as defined by WA DOH. Includes loose fibre bundles and small pieces of friable and non-friable material such as asbestos cement fragments mixed with soil. Considered under the NEPM as equivalent to "non-bonded / friable". |
| **AFM** | Airborne Fibre Monitoring, e.g. by the MFM. |
| **Amosite** | Amosite Asbestos Detected. Amosite may also refer to Fibrous Grunerite or Brown Asbestos. Identified in accordance with AS 4964-2004. |
| **AS** | Australian Standard. |
| **Asbestos Content (as asbestos)** | Total % w/w asbestos content in asbestos-containing finds in a soil sample (**% w/w**). |
| **Chrysotile** | Chrysotile Asbestos Detected. Chrysotile may also refer to Fibrous Serpentine or White Asbestos. Identified in accordance with AS 4964-2004. |
| **COC** | Chain of Custody. |
| **Crocidolite** | Crocidolite Asbestos Detected. Crocidolite may also refer to Fibrous Riebeckite or Blue Asbestos. Identified in accordance with AS 4964-2004. |
| **Dry** | Sample is dried by heating prior to analysis. |
| **DS** | Dispersion Staining. Technique required for Unequivocal Identification of asbestos fibres by PLM. |
| **FA** | Fibrous Asbestos. Asbestos containing material that is wholly or in part friable, including materials with higher asbestos content with a propensity to become friable with handling, and any material that was previously non-friable and in a severely degraded condition. For the purposes of the NEPM and WA DOH, FA generally corresponds to material larger than 7 mm x 7 mm, although FA may be more difficult to visibly distinguish and may be assessed as AF. |
| **Fibre Count** | Total of all fibres (whether asbestos or not) meeting the counting criteria set out in the NOHSC:3003 |
| **Fibre ID** | Fibre Identification. Unequivocal identification of asbestos fibres according to AS 4964-2004. Includes Chrysotile, Amosite (Grunerite) or Crocidolite asbestos. |
| **Friable** | Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory's remit to assess degree of friability. |
| **HSG248** | UK HSE HSG248, *Asbestos: The Analysts Guide*, 2nd Edition (2021). |
| **HSG264** | UK HSE HSG264, *Asbestos: The Survey Guide* (2012). |
| **ISO (also ISO/IEC)** | International Organization for Standardization / International Electrotechnical Commission. |
| **K Factor** | Microscope constant (**K**) as derived from the effective filter area of the given AFM membrane used for collecting the sample (**A**) and the projected eyepiece graticule area of the specific microscope used for the analysis (**a**). |
| **LOR** | Limit of Reporting. |
| **MFM (also NOHSC:3003)** | Membrane Filter Method. As described by the Australian Government National Occupational Health and Safety Commission, *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres*, 2nd Edition [NOHSC:3003(2005)]. |
| **NEPM (also ASC NEPM)** | National Environment Protection (Assessment of Site Contamination) Measure, (2013, as amended). |
| **Organic** | Organic Fibres Detected. Organic may refer to Natural or Man-Made Polymeric Fibres. Identified in accordance with AS 4964-2004. |
| **PCM** | Phase Contrast Microscopy. As used for Fibre Counting according to the MFM. |
| **PLM** | Polarised Light Microscopy. As used for Fibre Identification and Trace Analysis according to AS 4964-2004. |
| **SMF** | Synthetic Mineral Fibre Detected. SMF may also refer to Man Made Vitreous Fibres. Identified in accordance with AS 4964-2004. |
| **SRA** | Sample Receipt Advice. |
| **Trace Analysis** | Analytical procedure used to detect the presence of respirable fibres (particularly asbestos) in a given sample matrix. |
| **UK HSE HSG** | United Kingdom, Health and Safety Executive, Health and Safety Guidance, publication. |
| **UMF** | Unidentified Mineral Fibre Detected. Fibrous minerals that are detected but have not been unequivocally identified by PLM with DS according the AS 4964-2004. May include (but not limited to) Actinolite, Anthophyllite or Tremolite asbestos. |
| **WA DOH** | Reference document for the NEPM. Government of Western Australia, *Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia* (updated 2021), including Appendix Four: *Laboratory analysis* |
| **Weighted Average** | Combined average % w/w asbestos content of all asbestos-containing finds in the given aliquot or total soil sample (**$\%_{WA}$**). |

## Comments

### Sample Integrity

| | |
|---|---|
| Custody Seals Intact (if used) | N/A |
| Attempt to Chill was evident | N/A |
| Sample correctly preserved | Yes |
| Appropriate sample containers have been used | Yes |
| Sample containers for volatile analysis received with minimal headspace | Yes |
| Samples received within HoldingTime | Yes |
| Some samples have been subcontracted | No |

### Asbestos Counter/Identifier:

| | |
|---|---|
| Hiren Patel | Senior Analyst-Asbestos |

### Authorised by:

| | |
|---|---|
| Zoe Burke | Senior Analyst-Asbestos |

**Glenn Jackson**
**General Manager**

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

# Certificate of Analysis

**NATA Accredited**
**Accreditation Number 1261**
**Site Number 1254**

Accredited for compliance with ISO/IEC 17025–Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

**SLR Consulting (Vic)**
**Suite 2, Grd Flr, 2 Domville Ave**
**Hawthorn**
**VIC 3122**

| | |
|---|---|
| **Attention:** | James Bracken |
| **Report** | 944478-AID |
| **Project Name** | Melbourne Innovation Centre |
| **Project ID** | 640.30578.00100 |
| **Received Date** | Nov 25, 2022 |
| **Date Reported** | Nov 28, 2022 |

## Methodology:

| | |
|---|---|
| Asbestos Fibre Identification | Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques.<br>*NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.* |
| Unknown Mineral Fibres | Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity.<br>*NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.* |
| Subsampling Soil Samples | The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed.<br>*NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.* |
| Bonded asbestos-containing material (ACM) | The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination.The resultant material is then further examined in accordance with AS 4964 - 2004.<br>*NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.* |
| Limit of Reporting | The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w).<br>The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk).<br>*NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos".This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.* |

**Project Name** Melbourne Innovation Centre
**Project ID** 640.30578.00100
**Date Sampled** Nov 24, 2022 to Dec 24, 2022
**Report** 944478-AID

| Client Sample ID | Eurofins Sample No. | Date Sampled | Sample Description | Result |
|---|---|---|---|---|
| 11-953 - Building 3A-3D - Garage | 22-No0061028 | Nov 24, 2022 | Approximate Sample 4g / -mm<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Synthetic mineral fibre detected.<br>Organic fibre detected.<br>No trace asbestos detected. |
| 11-954 - Building 3A-3D - Garage | 22-No0061029 | Nov 24, 2022 | Approximate Sample 3g / -mm<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Synthetic mineral fibre detected.<br>Organic fibre detected.<br>No trace asbestos detected. |
| 11-955 - Building 3A-3D - Garage | 22-No0061030 | Nov 24, 2022 | Approximate Sample 5g / -mm<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Synthetic mineral fibre detected.<br>Organic fibre detected.<br>No trace asbestos detected. |
| 11-956 - Building 3A-3D - Garage | 22-No0061031 | Nov 24, 2022 | Approximate Sample 2g / -mm<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Synthetic mineral fibre detected.<br>Organic fibre detected.<br>No trace asbestos detected. |
| 11-957 - Building 3A-3D - Garage | 22-No0061032 | Nov 24, 2022 | Approximate Sample 5g / -mm<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Synthetic mineral fibre detected.<br>Organic fibre detected.<br>No trace asbestos detected. |
| 11-958 - Building 3A-3D - Garage | 22-No0061033 | Nov 24, 2022 | Approximate Sample 3g / -mm<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Synthetic mineral fibre detected.<br>Organic fibre detected.<br>No trace asbestos detected. |

| Client Sample ID | Eurofins Sample No. | Date Sampled | Sample Description | Result |
|---|---|---|---|---|
| 11-959 - Building 3A-3D - Garage | 22-No0061034 | Nov 24, 2022 | Approximate Sample 4g / -mm<br>Sample consisted of: Dust | Chrysotile asbestos detected in the form of loose fibre bundle.<br>Approximate dimensions: 5 x 1 x 1mm.<br><br>Organic fibre detected.<br>Synthetic mineral fibre detected.<br>No trace asbestos detected. |
| 11-960 - Building 3A-3D - Garage | 22-No0061035 | Nov 24, 2022 | Approximate Sample 5g / -mm<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Synthetic mineral fibre detected.<br>Organic fibre detected.<br>No trace asbestos detected. |
| 11-961 - Building 3A-3D - Garage | 22-No0061036 | Nov 24, 2022 | Approximate Sample 24g / -mm<br>Sample consisted of: Cement sheet | Chrysotile asbestos detected.<br>Organic fibre detected. |
| 11-962 - Building 3A-3D - Garage | 22-No0061037 | Dec 24, 2022 | Approximate Sample 4g / -mm<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Synthetic mineral fibre detected.<br>Organic fibre detected.<br>No trace asbestos detected. |

## Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

| Description | Testing Site | Extracted | Holding Time |
|---|---|---|---|
| Asbestos - LTM-ASB-8020 | Melbourne | Nov 25, 2022 | Indefinite |

eurofins

web: www.eurofins.com.au
email: EnviroSales@eurofins.com

**Eurofins Environment Testing Australia Pty Ltd**
ABN: 50 005 085 521

**Melbourne**
6 Monterey Road
Dandenong South
VIC 3175
Tel: +61 3 8564 5000
NATA# 1261 Site# 1254

**Geelong**
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261 Site# 1254

**Sydney**
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
NATA# 1261 Site# 18217

**Canberra**
Unit 1,2 Dacre Street
Mitchell
ACT 2911
Tel: +61 2 6113 8091

**Brisbane**
1/21 Smallwood Place
Murarrie
QLD 4172
Tel: +61 7 3902 4600
NATA# 1261 Site# 20794

**Newcastle**
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Tel: +61 2 4968 8448
NATA# 1261 Site# 25079

**Eurofins ARL Pty Ltd**
ABN: 91 05 0159 898

**Perth**
46-48 Banksia Road
Welshpool
WA 6106
Tel: +61 8 6253 4444
NATA# 2377 Site# 2370

**Eurofins Environment Testing NZ Ltd**
NZBN: 9429046024954

**Auckland**
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

**Christchurch**
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

**Company Name:** SLR Consulting (Vic)
**Address:** Suite 2, Grd Flr, 2 Domville Ave
Hawthorn
VIC 3122

**Project Name:** Melbourne Innovation Centre
**Project ID:** 640.30578.00100

**Order No.:**
**Report #:** 944478
**Phone:** 03 9249 9400
**Fax:**

**Received:** Nov 25, 2022 10:30 AM
**Due:** Nov 28, 2022
**Priority:** 1 Day
**Contact Name:** James Bracken

**Eurofins Analytical Services Manager : Harry Bacalis**

| Sample Detail | | | | | | Asbestos Absence /Presence |
|---|---|---|---|---|---|---|
| **Melbourne Laboratory - NATA # 1261 Site # 1254** | | | | | | X |
| **External Laboratory** | | | | | | |
| **No** | **Sample ID** | **Sample Date** | **Sampling Time** | **Matrix** | **LAB ID** | |
| 1 | 11-953 - Building 3A-3D - Garage | Nov 24, 2022 | | Building Materials | M22-No0061028 | X |
| 2 | 11-954 - Building 3A-3D - Garage | Nov 24, 2022 | | Building Materials | M22-No0061029 | X |
| 3 | 11-955 - Building 3A-3D - Garage | Nov 24, 2022 | | Building Materials | M22-No0061030 | X |
| 4 | 11-956 - Building 3A-3D - Garage | Nov 24, 2022 | | Building Materials | M22-No0061031 | X |
| 5 | 11-957 - Building 3A-3D - Garage | Nov 24, 2022 | | Building Materials | M22-No0061032 | X |
| 6 | 11-958 - Building 3A-3D | Nov 24, 2022 | | Building Materials | M22-No0061033 | X |

eurofins

web: www.eurofins.com.au
email: EnviroSales@eurofins.com

**Eurofins Environment Testing Australia Pty Ltd**
ABN: 50 005 085 521

**Melbourne**
6 Monterey Road
Dandenong South
VIC 3175
Tel: +61 3 8564 5000
NATA# 1261 Site# 1254

**Geelong**
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261 Site# 1254

**Sydney**
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
NATA# 1261 Site# 18217

**Canberra**
Unit 1,2 Dacre Street
Mitchell
ACT 2911
Tel: +61 2 6113 8091

**Brisbane**
1/21 Smallwood Place
Murarrie
QLD 4172
Tel: +61 7 3902 4600
NATA# 1261 Site# 20794

**Newcastle**
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Tel: +61 2 4968 8448
NATA# 1261 Site# 25079

**Eurofins ARL Pty Ltd**
ABN: 91 05 0159 898

**Perth**
46-48 Banksia Road
Welshpool
WA 6106
Tel: +61 8 6253 4444
NATA# 2377 Site# 2370

**Eurofins Environment Testing NZ Ltd**
NZBN: 9429046024954

**Auckland**
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

**Christchurch**
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

**Company Name:** SLR Consulting (Vic)
**Address:** Suite 2, Grd Flr, 2 Domville Ave
Hawthorn
VIC 3122

**Project Name:** Melbourne Innovation Centre
**Project ID:** 640.30578.00100

**Order No.:**
**Report #:** 944478
**Phone:** 03 9249 9400
**Fax:**

**Received:** Nov 25, 2022 10:30 AM
**Due:** Nov 28, 2022
**Priority:** 1 Day
**Contact Name:** James Bracken

**Eurofins Analytical Services Manager : Harry Bacalis**

| Sample Detail | | | | | | Asbestos Absence /Presence |
|---|---|---|---|---|---|---|
| **Melbourne Laboratory - NATA # 1261 Site # 1254** | | | | | | X |
| | - Garage | | | | | |
| 7 | 11-959 - Building 3A-3D - Garage | Nov 24, 2022 | | Building Materials | M22-No0061034 | X |
| 8 | 11-960 - Building 3A-3D - Garage | Nov 24, 2022 | | Building Materials | M22-No0061035 | X |
| 9 | 11-961 - Building 3A-3D - Garage | Nov 24, 2022 | | Building Materials | M22-No0061036 | X |
| 10 | 11-962 - Building 3A-3D - Garage | Dec 24, 2022 | | Building Materials | M22-No0061037 | X |
| **Test Counts** | | | | | | 10 |

## Internal Quality Control Review and Glossary General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. Information identified on this report with the colour **blue** indicates data provided by customer that may have an impact on the results.
5. Information identified on this report with the colour **orange** indicates sections of the report not covered by the laboratory's scope of NATA accreditation.
6. This report replaces any interim results previously issued.

## Holding Times

Please refer to the most recent version of the 'Sample Preservation and Container Guide' for holding times (QS3001).
If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported. Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

## Units

| | |
|---|---|
| % w/w: | Percentage weight-for-weight basis, e.g. of asbestos in asbestos-containing finds in soil samples (**% w/w**) |
| F/fld | Airborne fibre filter loading as Fibres (**N**) per Fields counted (**n**) |
| F/mL | Airborne fibre reported concentration as Fibres per millilitre of air drawn over the sampler membrane (**C**) |
| g, kg | Mass, e.g. of whole sample (**M**) or asbestos-containing find within the sample (**m**) |
| g/kg | Concentration in grams per kilogram |
| L, mL | Volume, e.g. of air as measured in AFM (**V** = **r** x **t**) |
| L/min | Airborne fibre sampling Flowrate as litres per minute of air drawn over the sampler membrane (**r**) |
| min | Time (**t**), e.g. of air sample collection period |

## Calculations

Airborne Fibre Concentration: $C = \left(\frac{A}{a}\right) \times \left(\frac{N}{n}\right) \times \left(\frac{1}{r}\right) \times \left(\frac{1}{t}\right) = K \times \left(\frac{N}{n}\right) \times \left(\frac{1}{V}\right)$

Asbestos Content (as asbestos): $\%\, w/w = \frac{(m \times P_A)}{M}$

Weighted Average (of asbestos): $\%_{WA} = \sum \frac{(m \times P_A)_x}{x}$

## Terms

| | |
|---|---|
| **%asbestos** | Estimated percentage of asbestos in a given matrix. May be derived from knowledge or experience of the material, informed by HSG264 *Appendix 2*, else assumed to be 15% in accordance with WA DOH *Appendix 2* (**$P_A$**). |
| **ACM** | Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded (non-friable) condition. For the purposes of the NEPM and WA DOH, ACM corresponds to material larger than 7 mm x 7 mm. |
| **AF** | Asbestos Fines. Asbestos contamination within a soil sample, as defined by WA DOH. Includes loose fibre bundles and small pieces of friable and non-friable material such as asbestos cement fragments mixed with soil. Considered under the NEPM as equivalent to "non-bonded / friable". |
| **AFM** | Airborne Fibre Monitoring, e.g. by the MFM. |
| **Amosite** | Amosite Asbestos Detected. Amosite may also refer to Fibrous Grunerite or Brown Asbestos. Identified in accordance with AS 4964-2004. |
| **AS** | Australian Standard. |
| **Asbestos Content (as asbestos)** | Total % w/w asbestos content in asbestos-containing finds in a soil sample (**% w/w**). |
| **Chrysotile** | Chrysotile Asbestos Detected. Chrysotile may also refer to Fibrous Serpentine or White Asbestos. Identified in accordance with AS 4964-2004. |
| **COC** | Chain of Custody. |
| **Crocidolite** | Crocidolite Asbestos Detected. Crocidolite may also refer to Fibrous Riebeckite or Blue Asbestos. Identified in accordance with AS 4964-2004. |
| **Dry** | Sample is dried by heating prior to analysis. |
| **DS** | Dispersion Staining. Technique required for Unequivocal Identification of asbestos fibres by PLM. |
| **FA** | Fibrous Asbestos. Asbestos containing material that is wholly or in part friable, including materials with higher asbestos content with a propensity to become friable with handling, and any material that was previously non-friable and in a severely degraded condition. For the purposes of the NEPM and WA DOH, FA generally corresponds to material larger than 7 mm x 7 mm, although FA may be more difficult to visibly distinguish and may be assessed as AF. |
| **Fibre Count** | Total of all fibres (whether asbestos or not) meeting the counting criteria set out in the NOHSC:3003 |
| **Fibre ID** | Fibre Identification. Unequivocal identification of asbestos fibres according to AS 4964-2004. Includes Chrysotile, Amosite (Grunerite) or Crocidolite asbestos. |
| **Friable** | Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory's remit to assess degree of friability. |
| **HSG248** | UK HSE HSG248, *Asbestos: The Analysts Guide*, 2nd Edition (2021). |
| **HSG264** | UK HSE HSG264, *Asbestos: The Survey Guide* (2012). |
| **ISO (also ISO/IEC)** | International Organization for Standardization / International Electrotechnical Commission. |
| **K Factor** | Microscope constant (**K**) as derived from the effective filter area of the given AFM membrane used for collecting the sample (**A**) and the projected eyepiece graticule area of the specific microscope used for the analysis (**a**). |
| **LOR** | Limit of Reporting. |
| **MFM (also NOHSC:3003)** | Membrane Filter Method. As described by the Australian Government National Occupational Health and Safety Commission, *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres*, 2nd Edition [NOHSC:3003(2005)]. |
| **NEPM (also ASC NEPM)** | National Environment Protection (Assessment of Site Contamination) Measure, (2013, as amended). |
| **Organic** | Organic Fibres Detected. Organic may refer to Natural or Man-Made Polymeric Fibres. Identified in accordance with AS 4964-2004. |
| **PCM** | Phase Contrast Microscopy. As used for Fibre Counting according to the MFM. |
| **PLM** | Polarised Light Microscopy. As used for Fibre Identification and Trace Analysis according to AS 4964-2004. |
| **SMF** | Synthetic Mineral Fibre Detected. SMF may also refer to Man Made Vitreous Fibres. Identified in accordance with AS 4964-2004. |
| **SRA** | Sample Receipt Advice. |
| **Trace Analysis** | Analytical procedure used to detect the presence of respirable fibres (particularly asbestos) in a given sample matrix. |
| **UK HSE HSG** | United Kingdom, Health and Safety Executive, Health and Safety Guidance, publication. |
| **UMF** | Unidentified Mineral Fibre Detected. Fibrous minerals that are detected but have not been unequivocally identified by PLM with DS according the AS 4964-2004. May include (but not limited to) Actinolite, Anthophyllite or Tremolite asbestos. |
| **WA DOH** | Reference document for the NEPM. Government of Western Australia, *Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia* (updated 2021), including Appendix Four: *Laboratory analysis* |
| **Weighted Average** | Combined average % w/w asbestos content of all asbestos-containing finds in the given aliquot or total soil sample (**$\%_{WA}$**). |

## Comments

### Sample Integrity

| | |
|---|---|
| Custody Seals Intact (if used) | N/A |
| Attempt to Chill was evident | N/A |
| Sample correctly preserved | Yes |
| Appropriate sample containers have been used | Yes |
| Sample containers for volatile analysis received with minimal headspace | Yes |
| Samples received within HoldingTime | Yes |
| Some samples have been subcontracted | No |

### Asbestos Counter/Identifier:

| | |
|---|---|
| Hiren Patel | Senior Analyst-Asbestos |

### Authorised by:

| | |
|---|---|
| Zoe Burke | Senior Analyst-Asbestos |

**Glenn Jackson**
**General Manager**

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

# Certificate of Analysis

eurofins | Environment Testing

**NATA Accredited**
**Accreditation Number 1261**
**Site Number 1254**

Accredited for compliance with ISO/IEC 17025–Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

**SLR Consulting (Vic)**
**Suite 2, Grd Flr, 2 Domville Ave**
**Hawthorn**
**VIC 3122**

| | |
|---|---|
| **Attention:** | James Bracken |
| **Report** | 944483-AID |
| **Project Name** | Melbourne Innovation Centre |
| **Project ID** | 640.30578.00100 |
| **Received Date** | Nov 25, 2022 |
| **Date Reported** | Nov 29, 2022 |

## Methodology:

| | |
|---|---|
| Asbestos Fibre Identification | Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques.<br>*NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.* |
| Unknown Mineral Fibres | Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity.<br>*NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.* |
| Subsampling Soil Samples | The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed.<br>*NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.* |
| Bonded asbestos-containing material (ACM) | The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination.The resultant material is then further examined in accordance with AS 4964 - 2004.<br>*NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.* |
| Limit of Reporting | The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w).<br>The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk).<br>*NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos".This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.* |

**Project Name** Melbourne Innovation Centre
**Project ID** 640.30578.00100
**Date Sampled** Nov 24, 2022
**Report** 944483-AID

| Client Sample ID | Eurofins Sample No. | Date Sampled | Sample Description | Result |
|---|---|---|---|---|
| 11-963 - Building 3A-3D - Garage | 22-No0061041 | Nov 24, 2022 | Approximate Sample 2g<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Synthetic mineral fibre detected.<br>Organic fibre detected.<br>No trace asbestos detected. |
| 11-964 - Building 3A-3D - Garage | 22-No0061042 | Nov 24, 2022 | Approximate Sample 2g<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Synthetic mineral fibre detected.<br>Organic fibre detected.<br>No trace asbestos detected. |
| 11-965 - Building 3A-3D - Garage | 22-No0061043 | Nov 24, 2022 | Approximate Sample 2g<br>Sample consisted of: Dust | Chrysotile asbestos detected in the form of fibre cement fragment.<br>Approximate dimension: 10 x 10 x 2mm.<br><br>Organic fibre detected.<br>Synthetic mineral fibre detected.<br>No trace asbestos detected. |
| 11-966 - Building 3A-3D - Office | 22-No0061044 | Nov 24, 2022 | Approximate Sample 3g<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Organic fibre detected.<br>No trace asbestos detected. |
| 11-967 - Building 3A-3D - Office | 22-No0061045 | Nov 24, 2022 | Approximate Sample <1g<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Organic fibre detected.<br>No trace asbestos detected. |
| 11-968 - Building 3A-3D - Office 10 | 22-No0061046 | Nov 24, 2022 | Approximate Sample <1g<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Organic fibre detected.<br>No trace asbestos detected. |
| 11-975 - Building 3A-3D - SES Office | 22-No0061047 | Nov 24, 2022 | Approximate Sample <1g<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Organic fibre detected.<br>No trace asbestos detected. |

| Client Sample ID | Eurofins Sample No. | Date Sampled | Sample Description | Result |
|---|---|---|---|---|
| 11-976 - Building 3A-3D - SES Toilets | 22-No0061048 | Nov 24, 2022 | Approximate Sample <1g<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Organic fibre detected.<br>No trace asbestos detected. |

## Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

| Description | Testing Site | Extracted | Holding Time |
|---|---|---|---|
| Asbestos - LTM-ASB-8020 | Melbourne | Nov 25, 2022 | Indefinite |

eurofins

web: www.eurofins.com.au
email: EnviroSales@eurofins.com

**Eurofins Environment Testing Australia Pty Ltd**
ABN: 50 005 085 521

**Melbourne**
6 Monterey Road
Dandenong South
VIC 3175
Tel: +61 3 8564 5000
NATA# 1261 Site# 1254

**Geelong**
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261 Site# 1254

**Sydney**
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
NATA# 1261 Site# 18217

**Canberra**
Unit 1,2 Dacre Street
Mitchell
ACT 2911
Tel: +61 2 6113 8091

**Brisbane**
1/21 Smallwood Place
Murarrie
QLD 4172
Tel: +61 7 3902 4600
NATA# 1261 Site# 20794

**Newcastle**
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Tel: +61 2 4968 8448
NATA# 1261 Site# 25079

**Eurofins ARL Pty Ltd**
ABN: 91 05 0159 898

**Perth**
46-48 Banksia Road
Welshpool
WA 6106
Tel: +61 8 6253 4444
NATA# 2377 Site# 2370

**Eurofins Environment Testing NZ Ltd**
NZBN: 9429046024954

**Auckland**
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

**Christchurch**
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

**Company Name:** SLR Consulting (Vic)
**Address:** Suite 2, Grd Flr, 2 Domville Ave
Hawthorn
VIC 3122

**Project Name:** Melbourne Innovation Centre
**Project ID:** 640.30578.00100

**Order No.:**
**Report #:** 944483
**Phone:** 03 9249 9400
**Fax:**

**Received:** Nov 25, 2022 10:30 AM
**Due:** Nov 29, 2022
**Priority:** 2 Day
**Contact Name:** James Bracken

**Eurofins Analytical Services Manager : Harry Bacalis**

| Sample Detail | | | | | | Asbestos Absence /Presence |
|---|---|---|---|---|---|---|
| **Melbourne Laboratory - NATA # 1261 Site # 1254** | | | | | | X |
| **External Laboratory** | | | | | | |
| **No** | **Sample ID** | **Sample Date** | **Sampling Time** | **Matrix** | **LAB ID** | |
| 1 | 11-963 - Building 3A-3D - Garage | Nov 24, 2022 | | Building Materials | M22-No0061041 | X |
| 2 | 11-964 - Building 3A-3D - Garage | Nov 24, 2022 | | Building Materials | M22-No0061042 | X |
| 3 | 11-965 - Building 3A-3D - Garage | Nov 24, 2022 | | Building Materials | M22-No0061043 | X |
| 4 | 11-966 - Building 3A-3D - Office | Nov 24, 2022 | | Building Materials | M22-No0061044 | X |
| 5 | 11-967 - Building 3A-3D - Office | Nov 24, 2022 | | Building Materials | M22-No0061045 | X |
| 6 | 11-968 - Building 3A-3D | Nov 24, 2022 | | Building Materials | M22-No0061046 | X |

eurofins

web: www.eurofins.com.au
email: EnviroSales@eurofins.com

**Eurofins Environment Testing Australia Pty Ltd**
ABN: 50 005 085 521

**Melbourne**
6 Monterey Road
Dandenong South
VIC 3175
Tel: +61 3 8564 5000
NATA# 1261 Site# 1254

**Geelong**
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261 Site# 1254

**Sydney**
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
NATA# 1261 Site# 18217

**Canberra**
Unit 1,2 Dacre Street
Mitchell
ACT 2911
Tel: +61 2 6113 8091

**Brisbane**
1/21 Smallwood Place
Murarrie
QLD 4172
Tel: +61 7 3902 4600
NATA# 1261 Site# 20794

**Newcastle**
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Tel: +61 2 4968 8448
NATA# 1261 Site# 25079

**Eurofins ARL Pty Ltd**
ABN: 91 05 0159 898

**Perth**
46-48 Banksia Road
Welshpool
WA 6106
Tel: +61 8 6253 4444
NATA# 2377 Site# 2370

**Eurofins Environment Testing NZ Ltd**
NZBN: 9429046024954

**Auckland**
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

**Christchurch**
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

**Company Name:** SLR Consulting (Vic)
**Address:** Suite 2, Grd Flr, 2 Domville Ave
Hawthorn
VIC 3122

**Project Name:** Melbourne Innovation Centre
**Project ID:** 640.30578.00100

**Order No.:**
**Report #:** 944483
**Phone:** 03 9249 9400
**Fax:**

**Received:** Nov 25, 2022 10:30 AM
**Due:** Nov 29, 2022
**Priority:** 2 Day
**Contact Name:** James Bracken

**Eurofins Analytical Services Manager : Harry Bacalis**

| Sample Detail | | | | | | Asbestos Absence /Presence |
|---|---|---|---|---|---|---|
| **Melbourne Laboratory - NATA # 1261 Site # 1254** | | | | | | X |
| | - Office 10 | | | | | |
| 7 | 11-975 - Building 3A-3D - SES Office | Nov 24, 2022 | | Building Materials | M22-No0061047 | X |
| 8 | 11-976 - Building 3A-3D - SES Toilets | Nov 24, 2022 | | Building Materials | M22-No0061048 | X |
| **Test Counts** | | | | | | 8 |

## Internal Quality Control Review and Glossary General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. Information identified on this report with the colour **blue** indicates data provided by customer that may have an impact on the results.
5. Information identified on this report with the colour **orange** indicates sections of the report not covered by the laboratory's scope of NATA accreditation.
6. This report replaces any interim results previously issued.

## Holding Times

Please refer to the most recent version of the 'Sample Preservation and Container Guide' for holding times (QS3001).
If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported. Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

## Units

| | |
|---|---|
| % w/w: | Percentage weight-for-weight basis, e.g. of asbestos in asbestos-containing finds in soil samples (**% w/w**) |
| F/fld | Airborne fibre filter loading as Fibres (**N**) per Fields counted (**n**) |
| F/mL | Airborne fibre reported concentration as Fibres per millilitre of air drawn over the sampler membrane (**C**) |
| g, kg | Mass, e.g. of whole sample (**M**) or asbestos-containing find within the sample (**m**) |
| g/kg | Concentration in grams per kilogram |
| L, mL | Volume, e.g. of air as measured in AFM (**V** = **r** x **t**) |
| L/min | Airborne fibre sampling Flowrate as litres per minute of air drawn over the sampler membrane (**r**) |
| min | Time (**t**), e.g. of air sample collection period |

## Calculations

Airborne Fibre Concentration: $C = \left(\frac{A}{a}\right) \times \left(\frac{N}{n}\right) \times \left(\frac{1}{r}\right) \times \left(\frac{1}{t}\right) = K \times \left(\frac{N}{n}\right) \times \left(\frac{1}{V}\right)$

Asbestos Content (as asbestos): $\%\, w/w = \frac{(m \times P_A)}{M}$

Weighted Average (of asbestos): $\%_{WA} = \sum \frac{(m \times P_A)_x}{x}$

## Terms

| | |
|---|---|
| **%asbestos** | Estimated percentage of asbestos in a given matrix. May be derived from knowledge or experience of the material, informed by HSG264 *Appendix 2*, else assumed to be 15% in accordance with WA DOH *Appendix 2* (**$P_A$**). |
| **ACM** | Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded (non-friable) condition. For the purposes of the NEPM and WA DOH, ACM corresponds to material larger than 7 mm x 7 mm. |
| **AF** | Asbestos Fines. Asbestos contamination within a soil sample, as defined by WA DOH. Includes loose fibre bundles and small pieces of friable and non-friable material such as asbestos cement fragments mixed with soil. Considered under the NEPM as equivalent to "non-bonded / friable". |
| **AFM** | Airborne Fibre Monitoring, e.g. by the MFM. |
| **Amosite** | Amosite Asbestos Detected. Amosite may also refer to Fibrous Grunerite or Brown Asbestos. Identified in accordance with AS 4964-2004. |
| **AS** | Australian Standard. |
| **Asbestos Content (as asbestos)** | Total % w/w asbestos content in asbestos-containing finds in a soil sample (**% w/w**). |
| **Chrysotile** | Chrysotile Asbestos Detected. Chrysotile may also refer to Fibrous Serpentine or White Asbestos. Identified in accordance with AS 4964-2004. |
| **COC** | Chain of Custody. |
| **Crocidolite** | Crocidolite Asbestos Detected. Crocidolite may also refer to Fibrous Riebeckite or Blue Asbestos. Identified in accordance with AS 4964-2004. |
| **Dry** | Sample is dried by heating prior to analysis. |
| **DS** | Dispersion Staining. Technique required for Unequivocal Identification of asbestos fibres by PLM. |
| **FA** | Fibrous Asbestos. Asbestos containing material that is wholly or in part friable, including materials with higher asbestos content with a propensity to become friable with handling, and any material that was previously non-friable and in a severely degraded condition. For the purposes of the NEPM and WA DOH, FA generally corresponds to material larger than 7 mm x 7 mm, although FA may be more difficult to visibly distinguish and may be assessed as AF. |
| **Fibre Count** | Total of all fibres (whether asbestos or not) meeting the counting criteria set out in the NOHSC:3003 |
| **Fibre ID** | Fibre Identification. Unequivocal identification of asbestos fibres according to AS 4964-2004. Includes Chrysotile, Amosite (Grunerite) or Crocidolite asbestos. |
| **Friable** | Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory's remit to assess degree of friability. |
| **HSG248** | UK HSE HSG248, *Asbestos: The Analysts Guide*, 2nd Edition (2021). |
| **HSG264** | UK HSE HSG264, *Asbestos: The Survey Guide* (2012). |
| **ISO (also ISO/IEC)** | International Organization for Standardization / International Electrotechnical Commission. |
| **K Factor** | Microscope constant (**K**) as derived from the effective filter area of the given AFM membrane used for collecting the sample (**A**) and the projected eyepiece graticule area of the specific microscope used for the analysis (**a**). |
| **LOR** | Limit of Reporting. |
| **MFM (also NOHSC:3003)** | Membrane Filter Method. As described by the Australian Government National Occupational Health and Safety Commission, *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres*, 2nd Edition [NOHSC:3003(2005)]. |
| **NEPM (also ASC NEPM)** | National Environment Protection (Assessment of Site Contamination) Measure, (2013, as amended). |
| **Organic** | Organic Fibres Detected. Organic may refer to Natural or Man-Made Polymeric Fibres. Identified in accordance with AS 4964-2004. |
| **PCM** | Phase Contrast Microscopy. As used for Fibre Counting according to the MFM. |
| **PLM** | Polarised Light Microscopy. As used for Fibre Identification and Trace Analysis according to AS 4964-2004. |
| **SMF** | Synthetic Mineral Fibre Detected. SMF may also refer to Man Made Vitreous Fibres. Identified in accordance with AS 4964-2004. |
| **SRA** | Sample Receipt Advice. |
| **Trace Analysis** | Analytical procedure used to detect the presence of respirable fibres (particularly asbestos) in a given sample matrix. |
| **UK HSE HSG** | United Kingdom, Health and Safety Executive, Health and Safety Guidance, publication. |
| **UMF** | Unidentified Mineral Fibre Detected. Fibrous minerals that are detected but have not been unequivocally identified by PLM with DS according the AS 4964-2004. May include (but not limited to) Actinolite, Anthophyllite or Tremolite asbestos. |
| **WA DOH** | Reference document for the NEPM. Government of Western Australia, *Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia* (updated 2021), including Appendix Four: *Laboratory analysis* |
| **Weighted Average** | Combined average % w/w asbestos content of all asbestos-containing finds in the given aliquot or total soil sample (**$\%_{WA}$**). |

## Comments

### Sample Integrity

| | |
|---|---|
| Custody Seals Intact (if used) | N/A |
| Attempt to Chill was evident | N/A |
| Sample correctly preserved | Yes |
| Appropriate sample containers have been used | Yes |
| Sample containers for volatile analysis received with minimal headspace | Yes |
| Samples received within HoldingTime | Yes |
| Some samples have been subcontracted | No |

### Asbestos Counter/Identifier:

| | |
|---|---|
| Hiren Patel | Senior Analyst-Asbestos |

### Authorised by:

| | |
|---|---|
| Zoe Burke | Senior Analyst-Asbestos |

**Glenn Jackson**
**General Manager**

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

# Certificate of Analysis

**NATA Accredited**
**Accreditation Number 1261**
**Site Number 1254**

Accredited for compliance with ISO/IEC 17025–Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

**SLR Consulting (Vic)**
**Suite 2, Grd Flr, 2 Domville Ave**
**Hawthorn**
**VIC 3122**

| | |
|---|---|
| **Attention:** | Krishna Kadali |
| **Report** | 944919-AID |
| **Project Name** | Melbourne Innovation Centre |
| **Project ID** | 640.30578.00100 |
| **Received Date** | Nov 28, 2022 |
| **Date Reported** | Nov 29, 2022 |

## Methodology:

| | |
|---|---|
| Asbestos Fibre Identification | Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques.<br>*NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.* |
| Unknown Mineral Fibres | Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity.<br>*NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.* |
| Subsampling Soil Samples | The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed.<br>*NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.* |
| Bonded asbestos-containing material (ACM) | The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination.The resultant material is then further examined in accordance with AS 4964 - 2004.<br>*NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.* |
| Limit of Reporting | The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w).<br>The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk).<br>*NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos".This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.* |

**Project Name** Melbourne Innovation Centre
**Project ID** 640.30578.00100
**Date Sampled** Nov 27, 2022
**Report** 944919-AID

| Client Sample ID | Eurofins Sample No. | Date Sampled | Sample Description | Result |
|---|---|---|---|---|
| 12-113 - Building 3A-3D - Brewery | 22-No0065124 | Nov 27, 2022 | Approximate Sample g<br>Sample consisted of: Dust | Chrysotile asbestos detected in the form of loose fibre bundle approximate size: 10 x 2 x 1mm.<br><br>Organic fibre detected.<br>Synthetic mineral fibre detected.<br>No trace asbestos detected. |
| 12-114 - Building 3A-3D - Brewery | 22-No0065125 | Nov 27, 2022 | Approximate Sample g<br>Sample consisted of: Dust | Chrysotile asbestos detected in the form of loose fibre bundle approximate size: 5 x 5 x 1mm.<br><br>Organic fibre detected.<br>No trace asbestos detected. |
| 12-115 - Building 3A-3D - Brewery | 22-No0065126 | Nov 27, 2022 | Approximate Sample g<br>Sample consisted of: Dust | Chrysotile asbestos detected in the form of fibre cement fragments approximate size: 10 x 5 x 2mm.<br><br>Organic fibre detected.<br>Synthetic mineral fibre detected.<br>No trace asbestos detected. |
| 12-116 - Building 3A-3D - Brewery | 22-No0065127 | Nov 27, 2022 | Approximate Sample g<br>Sample consisted of: Dust | Chrysotile asbestos detected in the form of loose fibre bundle approximate size: 5 x 2 x 1mm.<br><br>Organic fibre detected.<br>Synthetic mineral fibre detected.<br>No trace asbestos detected. |
| 12-117 - Building 3A-3D - Brewery | 22-No0065128 | Nov 27, 2022 | Approximate Sample g<br>Sample consisted of: Dust | Chrysotile asbestos detected in the form of loose fibre bundle approximate size: 5 x 5 x 1mm.<br><br>Organic fibre detected.<br>Synthetic mineral fibre detected.<br>No trace asbestos detected. |

| Client Sample ID | Eurofins Sample No. | Date Sampled | Sample Description | Result |
|---|---|---|---|---|
| 12-118 - Building 3A-3D - Brewery | 22-No0065129 | Nov 27, 2022 | Approximate Sample g<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Synthetic mineral fibre detected.<br>Organic fibre detected.<br>No trace asbestos detected. |
| 12-119 - Building 3A-3D - Brewery | 22-No0065130 | Nov 27, 2022 | Approximate Sample g<br>Sample consisted of: Dust | Chrysotile asbestos detected in the form of loose fibre bundle approximate size: 5 x 2 x 1mm.<br><br>Organic fibre detected.<br>Synthetic mineral fibre detected.<br>No trace asbestos detected. |
| 12-120 - Building 3A-3D - Brewery | 22-No0065131 | Nov 27, 2022 | Approximate Sample g<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Organic fibre detected.<br>No trace asbestos detected. |
| 12-121 - Building 3A-3D - Brewery | 22-No0065132 | Nov 27, 2022 | Approximate Sample g<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Synthetic mineral fibre detected.<br>Organic fibre detected.<br>No trace asbestos detected. |
| 12-122 - Building 3A-3D - Brewery | 22-No0065133 | Nov 27, 2022 | Approximate Sample g<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Organic fibre detected.<br>No trace asbestos detected. |

## Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

| Description | Testing Site | Extracted | Holding Time |
|---|---|---|---|
| Asbestos - LTM-ASB-8020 | Melbourne | Nov 28, 2022 | Indefinite |

eurofins

web: www.eurofins.com.au
email: EnviroSales@eurofins.com

**Eurofins Environment Testing Australia Pty Ltd**
ABN: 50 005 085 521

**Melbourne**
6 Monterey Road
Dandenong South
VIC 3175
Tel: +61 3 8564 5000
NATA# 1261 Site# 1254

**Geelong**
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261 Site# 1254

**Sydney**
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
NATA# 1261 Site# 18217

**Canberra**
Unit 1,2 Dacre Street
Mitchell
ACT 2911
Tel: +61 2 6113 8091

**Brisbane**
1/21 Smallwood Place
Murarrie
QLD 4172
Tel: +61 7 3902 4600
NATA# 1261 Site# 20794

**Newcastle**
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Tel: +61 2 4968 8448
NATA# 1261 Site# 25079

**Eurofins ARL Pty Ltd**
ABN: 91 05 0159 898

**Perth**
46-48 Banksia Road
Welshpool
WA 6106
Tel: +61 8 6253 4444
NATA# 2377 Site# 2370

**Eurofins Environment Testing NZ Ltd**
NZBN: 9429046024954

**Auckland**
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

**Christchurch**
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

**Company Name:** SLR Consulting (Vic)
**Address:** Suite 2, Grd Flr, 2 Domville Ave
Hawthorn
VIC 3122

**Project Name:** Melbourne Innovation Centre
**Project ID:** 640.30578.00100

**Order No.:**
**Report #:** 944919
**Phone:** 03 9249 9400
**Fax:**

**Received:** Nov 28, 2022 12:20 PM
**Due:** Nov 29, 2022
**Priority:** 1 Day
**Contact Name:** Krishna Kadali

**Eurofins Analytical Services Manager : Harry Bacalis**

| Sample Detail | | | | | | Asbestos Absence /Presence |
|---|---|---|---|---|---|---|
| **Melbourne Laboratory - NATA # 1261 Site # 1254** | | | | | | X |
| **External Laboratory** | | | | | | |
| **No** | **Sample ID** | **Sample Date** | **Sampling Time** | **Matrix** | **LAB ID** | |
| 1 | 12-113 - Building 3A-3D - Brewery | Nov 27, 2022 | | Building Materials | M22-No0065124 | X |
| 2 | 12-114 - Building 3A-3D - Brewery | Nov 27, 2022 | | Building Materials | M22-No0065125 | X |
| 3 | 12-115 - Building 3A-3D - Brewery | Nov 27, 2022 | | Building Materials | M22-No0065126 | X |
| 4 | 12-116 - Building 3A-3D - Brewery | Nov 27, 2022 | | Building Materials | M22-No0065127 | X |
| 5 | 12-117 - Building 3A-3D - Brewery | Nov 27, 2022 | | Building Materials | M22-No0065128 | X |
| 6 | 12-118 - Building 3A-3D | Nov 27, 2022 | | Building Materials | M22-No0065129 | X |

eurofins

web: www.eurofins.com.au
email: EnviroSales@eurofins.com

**Eurofins Environment Testing Australia Pty Ltd**
ABN: 50 005 085 521

**Melbourne**
6 Monterey Road
Dandenong South
VIC 3175
Tel: +61 3 8564 5000
NATA# 1261 Site# 1254

**Geelong**
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261 Site# 1254

**Sydney**
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
NATA# 1261 Site# 18217

**Canberra**
Unit 1,2 Dacre Street
Mitchell
ACT 2911
Tel: +61 2 6113 8091

**Brisbane**
1/21 Smallwood Place
Murarrie
QLD 4172
Tel: +61 7 3902 4600
NATA# 1261 Site# 20794

**Newcastle**
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Tel: +61 2 4968 8448
NATA# 1261 Site# 25079

**Eurofins ARL Pty Ltd**
ABN: 91 05 0159 898

**Perth**
46-48 Banksia Road
Welshpool
WA 6106
Tel: +61 8 6253 4444
NATA# 2377 Site# 2370

**Eurofins Environment Testing NZ Ltd**
NZBN: 9429046024954

**Auckland**
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

**Christchurch**
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

**Company Name:** SLR Consulting (Vic)
**Address:** Suite 2, Grd Flr, 2 Domville Ave
Hawthorn
VIC 3122

**Project Name:** Melbourne Innovation Centre
**Project ID:** 640.30578.00100

**Order No.:**
**Report #:** 944919
**Phone:** 03 9249 9400
**Fax:**

**Received:** Nov 28, 2022 12:20 PM
**Due:** Nov 29, 2022
**Priority:** 1 Day
**Contact Name:** Krishna Kadali

**Eurofins Analytical Services Manager : Harry Bacalis**

| Sample Detail | | | | | | Asbestos Absence /Presence |
|---|---|---|---|---|---|---|
| **Melbourne Laboratory - NATA # 1261 Site # 1254** | | | | | | X |
| | - Brewery | | | | | |
| 7 | 12-119 - Building 3A-3D - Brewery | Nov 27, 2022 | | Building Materials | M22-No0065130 | X |
| 8 | 12-120 - Building 3A-3D - Brewery | Nov 27, 2022 | | Building Materials | M22-No0065131 | X |
| 9 | 12-121 - Building 3A-3D - Brewery | Nov 27, 2022 | | Building Materials | M22-No0065132 | X |
| 10 | 12-122 - Building 3A-3D - Brewery | Nov 27, 2022 | | Building Materials | M22-No0065133 | X |
| **Test Counts** | | | | | | 10 |

## Internal Quality Control Review and Glossary General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. Information identified on this report with the colour **blue** indicates data provided by customer that may have an impact on the results.
5. Information identified on this report with the colour **orange** indicates sections of the report not covered by the laboratory's scope of NATA accreditation.
6. This report replaces any interim results previously issued.

## Holding Times

Please refer to the most recent version of the 'Sample Preservation and Container Guide' for holding times (QS3001).
If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported. Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

## Units

| | |
|---|---|
| % w/w: | Percentage weight-for-weight basis, e.g. of asbestos in asbestos-containing finds in soil samples (**% w/w**) |
| F/fld | Airborne fibre filter loading as Fibres (**N**) per Fields counted (**n**) |
| F/mL | Airborne fibre reported concentration as Fibres per millilitre of air drawn over the sampler membrane (**C**) |
| g, kg | Mass, e.g. of whole sample (**M**) or asbestos-containing find within the sample (**m**) |
| g/kg | Concentration in grams per kilogram |
| L, mL | Volume, e.g. of air as measured in AFM (**V** = **r** x **t**) |
| L/min | Airborne fibre sampling Flowrate as litres per minute of air drawn over the sampler membrane (**r**) |
| min | Time (**t**), e.g. of air sample collection period |

## Calculations

Airborne Fibre Concentration: $C = \left(\frac{A}{a}\right) \times \left(\frac{N}{n}\right) \times \left(\frac{1}{r}\right) \times \left(\frac{1}{t}\right) = K \times \left(\frac{N}{n}\right) \times \left(\frac{1}{V}\right)$

Asbestos Content (as asbestos): $\%\, w/w = \frac{(m \times P_A)}{M}$

Weighted Average (of asbestos): $\%_{WA} = \sum \frac{(m \times P_A)_x}{x}$

## Terms

| | |
|---|---|
| **%asbestos** | Estimated percentage of asbestos in a given matrix. May be derived from knowledge or experience of the material, informed by HSG264 *Appendix 2*, else assumed to be 15% in accordance with WA DOH *Appendix 2* (**$P_A$**). |
| **ACM** | Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded (non-friable) condition. For the purposes of the NEPM and WA DOH, ACM corresponds to material larger than 7 mm x 7 mm. |
| **AF** | Asbestos Fines. Asbestos contamination within a soil sample, as defined by WA DOH. Includes loose fibre bundles and small pieces of friable and non-friable material such as asbestos cement fragments mixed with soil. Considered under the NEPM as equivalent to "non-bonded / friable". |
| **AFM** | Airborne Fibre Monitoring, e.g. by the MFM. |
| **Amosite** | Amosite Asbestos Detected. Amosite may also refer to Fibrous Grunerite or Brown Asbestos. Identified in accordance with AS 4964-2004. |
| **AS** | Australian Standard. |
| **Asbestos Content (as asbestos)** | Total % w/w asbestos content in asbestos-containing finds in a soil sample (**% w/w**). |
| **Chrysotile** | Chrysotile Asbestos Detected. Chrysotile may also refer to Fibrous Serpentine or White Asbestos. Identified in accordance with AS 4964-2004. |
| **COC** | Chain of Custody. |
| **Crocidolite** | Crocidolite Asbestos Detected. Crocidolite may also refer to Fibrous Riebeckite or Blue Asbestos. Identified in accordance with AS 4964-2004. |
| **Dry** | Sample is dried by heating prior to analysis. |
| **DS** | Dispersion Staining. Technique required for Unequivocal Identification of asbestos fibres by PLM. |
| **FA** | Fibrous Asbestos. Asbestos containing material that is wholly or in part friable, including materials with higher asbestos content with a propensity to become friable with handling, and any material that was previously non-friable and in a severely degraded condition. For the purposes of the NEPM and WA DOH, FA generally corresponds to material larger than 7 mm x 7 mm, although FA may be more difficult to visibly distinguish and may be assessed as AF. |
| **Fibre Count** | Total of all fibres (whether asbestos or not) meeting the counting criteria set out in the NOHSC:3003 |
| **Fibre ID** | Fibre Identification. Unequivocal identification of asbestos fibres according to AS 4964-2004. Includes Chrysotile, Amosite (Grunerite) or Crocidolite asbestos. |
| **Friable** | Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory's remit to assess degree of friability. |
| **HSG248** | UK HSE HSG248, *Asbestos: The Analysts Guide*, 2nd Edition (2021). |
| **HSG264** | UK HSE HSG264, *Asbestos: The Survey Guide* (2012). |
| **ISO (also ISO/IEC)** | International Organization for Standardization / International Electrotechnical Commission. |
| **K Factor** | Microscope constant (**K**) as derived from the effective filter area of the given AFM membrane used for collecting the sample (**A**) and the projected eyepiece graticule area of the specific microscope used for the analysis (**a**). |
| **LOR** | Limit of Reporting. |
| **MFM (also NOHSC:3003)** | Membrane Filter Method. As described by the Australian Government National Occupational Health and Safety Commission, *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres*, 2nd Edition [NOHSC:3003(2005)]. |
| **NEPM (also ASC NEPM)** | National Environment Protection (Assessment of Site Contamination) Measure, (2013, as amended). |
| **Organic** | Organic Fibres Detected. Organic may refer to Natural or Man-Made Polymeric Fibres. Identified in accordance with AS 4964-2004. |
| **PCM** | Phase Contrast Microscopy. As used for Fibre Counting according to the MFM. |
| **PLM** | Polarised Light Microscopy. As used for Fibre Identification and Trace Analysis according to AS 4964-2004. |
| **SMF** | Synthetic Mineral Fibre Detected. SMF may also refer to Man Made Vitreous Fibres. Identified in accordance with AS 4964-2004. |
| **SRA** | Sample Receipt Advice. |
| **Trace Analysis** | Analytical procedure used to detect the presence of respirable fibres (particularly asbestos) in a given sample matrix. |
| **UK HSE HSG** | United Kingdom, Health and Safety Executive, Health and Safety Guidance, publication. |
| **UMF** | Unidentified Mineral Fibre Detected. Fibrous minerals that are detected but have not been unequivocally identified by PLM with DS according the AS 4964-2004. May include (but not limited to) Actinolite, Anthophyllite or Tremolite asbestos. |
| **WA DOH** | Reference document for the NEPM. Government of Western Australia, *Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia* (updated 2021), including Appendix Four: *Laboratory analysis* |
| **Weighted Average** | Combined average % w/w asbestos content of all asbestos-containing finds in the given aliquot or total soil sample (**$\%_{WA}$**). |

## Comments

### Sample Integrity

| | |
|---|---|
| Custody Seals Intact (if used) | N/A |
| Attempt to Chill was evident | N/A |
| Sample correctly preserved | Yes |
| Appropriate sample containers have been used | Yes |
| Sample containers for volatile analysis received with minimal headspace | Yes |
| Samples received within HoldingTime | Yes |
| Some samples have been subcontracted | No |

### Asbestos Counter/Identifier:

| | |
|---|---|
| Hiren Patel | Senior Analyst-Asbestos |

### Authorised by:

| | |
|---|---|
| Zoe Burke | Senior Analyst-Asbestos |

**Glenn Jackson**
**General Manager**

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

**SLR Consulting (Vic)**
**Suite 2, Grd Flr, 2 Domville Ave**
**Hawthorn**
**VIC 3122**

**NATA Accredited**
**Accreditation Number 1261**
**Site Number 1254**

Accredited for compliance with ISO/IEC 17025–Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

| | |
|---|---|
| **Attention:** | Krishna Kadali |
| **Report** | 944923-AID |
| **Project Name** | Melbourne Innovation Centre |
| **Project ID** | 640.30578.00100 |
| **Received Date** | Nov 28, 2022 |
| **Date Reported** | Nov 29, 2022 |

## Methodology:

| | |
|---|---|
| Asbestos Fibre Identification | Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques.<br>*NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.* |
| Unknown Mineral Fibres | Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity.<br>*NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.* |
| Subsampling Soil Samples | The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed.<br>*NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.* |
| Bonded asbestos-containing material (ACM) | The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination.The resultant material is then further examined in accordance with AS 4964 - 2004.<br>*NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.* |
| Limit of Reporting | The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w).<br>The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk).<br>*NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos".This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.* |

**Project Name** Melbourne Innovation Centre
**Project ID** 640.30578.00100
**Date Sampled** Nov 27, 2022
**Report** 944923-AID

| Client Sample ID | Eurofins Sample No. | Date Sampled | Sample Description | Result |
|---|---|---|---|---|
| 12-123 - Building 3A-3D - Brewery | 22-No0065139 | Nov 27, 2022 | Approximate Sample 6g<br>Sample consisted of: Dust | Chrysotile asbestos detected in the form of loose fibre bundle approximate size: 10 x 5 x 1mm.<br><br>Organic fibre detected.<br>No trace asbestos detected. |
| 12-124 - Building 3A-3D - Brewery | 22-No0065140 | Nov 27, 2022 | Approximate Sample 4g<br>Sample consisted of: Dust | Chrysotile asbestos detected in the form of loose fibre bundle approximate size: 5 x 2 x 1mm.<br><br>Organic fibre detected.<br>Synthetic mineral fibre detected.<br>No trace asbestos detected. |
| 12-125 - Building 3A-3D - Brewery | 22-No0065141 | Nov 27, 2022 | Approximate Sample <1g<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Synthetic mineral fibre detected.<br>Organic fibre detected.<br>No trace asbestos detected. |
| 12-126 - Building 3A-3D - Brewery | 22-No0065142 | Nov 27, 2022 | Approximate Sample <1g<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Synthetic mineral fibre detected.<br>Organic fibre detected.<br>No trace asbestos detected. |
| 12-127 - Building 3A-3D - Brewery | 22-No0065143 | Nov 27, 2022 | Approximate Sample 2g<br>Sample consisted of: Dust | Chrysotile asbestos detected in the form of loose fibre bundle approximate size: 5 x 5 x 1mm.<br><br>Organic fibre detected.<br>Synthetic mineral fibre detected.<br>No trace asbestos detected. |

| Client Sample ID | Eurofins Sample No. | Date Sampled | Sample Description | Result |
|---|---|---|---|---|
| 12-128 - Building 3A-3D - Brewery | 22-No0065144 | Nov 27, 2022 | Approximate Sample 3g<br>Sample consisted of: Dust | Chrysotile asbestos detected in the form of loose fibre bundle approximate size: 5 x 2 x 1mm.<br><br>Organic fibre detected.<br>Synthetic mineral fibre detected.<br>No trace asbestos detected. |
| 12-129 - Building 3A-3D - Brewery | 22-No0065145 | Nov 27, 2022 | Approximate Sample 2g<br>Sample consisted of: Dust | Chrysotile asbestos detected in the form of loose fibre bundle approximate size: 5 x 2 x 1mm.<br><br>Organic fibre detected.<br>Synthetic mineral fibre detected.<br>No trace asbestos detected. |
| 12-130 - Building 3A-3D - Brewery | 22-No0065146 | Nov 27, 2022 | Approximate Sample <1g<br>Sample consisted of: Dust | Chrysotile asbestos detected in the form of loose fibre bundle approximate size: 5 x 1 x 1mm.<br><br>Organic fibre detected.<br>Synthetic mineral fibre detected.<br>No trace asbestos detected. |
| 12-131 - Building 3A-3D - Brewery | 22-No0065147 | Nov 27, 2022 | Approximate Sample <1g<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Organic fibre detected.<br>No trace asbestos detected. |
| 12-132 - Building 3A-3D - Brewery | 22-No0065148 | Nov 27, 2022 | Approximate Sample <1g<br>Sample consisted of: Dust | Chrysotile asbestos detected in the form of loose fibre bundle approximate size: 5 x 2 x 1mm.<br><br>Organic fibre detected.<br>Synthetic mineral fibre detected.<br>No trace asbestos detected. |

## Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

| Description | Testing Site | Extracted | Holding Time |
|---|---|---|---|
| Asbestos - LTM-ASB-8020 | Melbourne | Nov 28, 2022 | Indefinite |

eurofins

web: www.eurofins.com.au
email: EnviroSales@eurofins.com

**Eurofins Environment Testing Australia Pty Ltd**
ABN: 50 005 085 521

**Melbourne**
6 Monterey Road
Dandenong South
VIC 3175
Tel: +61 3 8564 5000
NATA# 1261 Site# 1254

**Geelong**
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261 Site# 1254

**Sydney**
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
NATA# 1261 Site# 18217

**Canberra**
Unit 1,2 Dacre Street
Mitchell
ACT 2911
Tel: +61 2 6113 8091

**Brisbane**
1/21 Smallwood Place
Murarrie
QLD 4172
Tel: +61 7 3902 4600
NATA# 1261 Site# 20794

**Newcastle**
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Tel: +61 2 4968 8448
NATA# 1261 Site# 25079

**Eurofins ARL Pty Ltd**
ABN: 91 05 0159 898

**Perth**
46-48 Banksia Road
Welshpool
WA 6106
Tel: +61 8 6253 4444
NATA# 2377 Site# 2370

**Eurofins Environment Testing NZ Ltd**
NZBN: 9429046024954

**Auckland**
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

**Christchurch**
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

**Company Name:** SLR Consulting (Vic)
**Address:** Suite 2, Grd Flr, 2 Domville Ave
Hawthorn
VIC 3122

**Project Name:** Melbourne Innovation Centre
**Project ID:** 640.30578.00100

**Order No.:**
**Report #:** 944923
**Phone:** 03 9249 9400
**Fax:**

**Received:** Nov 28, 2022 12:20 PM
**Due:** Nov 29, 2022
**Priority:** 1 Day
**Contact Name:** Krishna Kadali

**Eurofins Analytical Services Manager : Harry Bacalis**

| Sample Detail | | | | | | Asbestos Absence /Presence |
|---|---|---|---|---|---|---|
| **Melbourne Laboratory - NATA # 1261 Site # 1254** | | | | | | X |
| **External Laboratory** | | | | | | |
| **No** | **Sample ID** | **Sample Date** | **Sampling Time** | **Matrix** | **LAB ID** | |
| 1 | 12-123 - Building 3A-3D - Brewery | Nov 27, 2022 | | Building Materials | M22-No0065139 | X |
| 2 | 12-124 - Building 3A-3D - Brewery | Nov 27, 2022 | | Building Materials | M22-No0065140 | X |
| 3 | 12-125 - Building 3A-3D - Brewery | Nov 27, 2022 | | Building Materials | M22-No0065141 | X |
| 4 | 12-126 - Building 3A-3D - Brewery | Nov 27, 2022 | | Building Materials | M22-No0065142 | X |
| 5 | 12-127 - Building 3A-3D - Brewery | Nov 27, 2022 | | Building Materials | M22-No0065143 | X |
| 6 | 12-128 - Building 3A-3D | Nov 27, 2022 | | Building Materials | M22-No0065144 | X |

eurofins

web: www.eurofins.com.au
email: EnviroSales@eurofins.com

**Eurofins Environment Testing Australia Pty Ltd**
ABN: 50 005 085 521

**Melbourne**
6 Monterey Road
Dandenong South
VIC 3175
Tel: +61 3 8564 5000
NATA# 1261 Site# 1254

**Geelong**
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261 Site# 1254

**Sydney**
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
NATA# 1261 Site# 18217

**Canberra**
Unit 1,2 Dacre Street
Mitchell
ACT 2911
Tel: +61 2 6113 8091

**Brisbane**
1/21 Smallwood Place
Murarrie
QLD 4172
Tel: +61 7 3902 4600
NATA# 1261 Site# 20794

**Newcastle**
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Tel: +61 2 4968 8448
NATA# 1261 Site# 25079

**Eurofins ARL Pty Ltd**
ABN: 91 05 0159 898

**Perth**
46-48 Banksia Road
Welshpool
WA 6106
Tel: +61 8 6253 4444
NATA# 2377 Site# 2370

**Eurofins Environment Testing NZ Ltd**
NZBN: 9429046024954

**Auckland**
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

**Christchurch**
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

**Company Name:** SLR Consulting (Vic)
**Address:** Suite 2, Grd Flr, 2 Domville Ave
Hawthorn
VIC 3122

**Project Name:** Melbourne Innovation Centre
**Project ID:** 640.30578.00100

**Order No.:**
**Report #:** 944923
**Phone:** 03 9249 9400
**Fax:**

**Received:** Nov 28, 2022 12:20 PM
**Due:** Nov 29, 2022
**Priority:** 1 Day
**Contact Name:** Krishna Kadali

**Eurofins Analytical Services Manager : Harry Bacalis**

| Sample Detail | | | | | | Asbestos Absence /Presence |
|---|---|---|---|---|---|---|
| **Melbourne Laboratory - NATA # 1261 Site # 1254** | | | | | | X |
| | - Brewery | | | | | |
| 7 | 12-129 - Building 3A-3D - Brewery | Nov 27, 2022 | | Building Materials | M22-No0065145 | X |
| 8 | 12-130 - Building 3A-3D - Brewery | Nov 27, 2022 | | Building Materials | M22-No0065146 | X |
| 9 | 12-131 - Building 3A-3D - Brewery | Nov 27, 2022 | | Building Materials | M22-No0065147 | X |
| 10 | 12-132 - Building 3A-3D - Brewery | Nov 27, 2022 | | Building Materials | M22-No0065148 | X |
| **Test Counts** | | | | | | 10 |

## Internal Quality Control Review and Glossary General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. Information identified on this report with the colour **blue** indicates data provided by customer that may have an impact on the results.
5. Information identified on this report with the colour **orange** indicates sections of the report not covered by the laboratory's scope of NATA accreditation.
6. This report replaces any interim results previously issued.

## Holding Times

Please refer to the most recent version of the 'Sample Preservation and Container Guide' for holding times (QS3001).
If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported. Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

## Units

| | |
|---|---|
| % w/w: | Percentage weight-for-weight basis, e.g. of asbestos in asbestos-containing finds in soil samples (**% w/w**) |
| F/fld | Airborne fibre filter loading as Fibres (**N**) per Fields counted (**n**) |
| F/mL | Airborne fibre reported concentration as Fibres per millilitre of air drawn over the sampler membrane (**C**) |
| g, kg | Mass, e.g. of whole sample (**M**) or asbestos-containing find within the sample (**m**) |
| g/kg | Concentration in grams per kilogram |
| L, mL | Volume, e.g. of air as measured in AFM (**V** = **r** x **t**) |
| L/min | Airborne fibre sampling Flowrate as litres per minute of air drawn over the sampler membrane (**r**) |
| min | Time (**t**), e.g. of air sample collection period |

## Calculations

Airborne Fibre Concentration: $C = \left(\frac{A}{a}\right) \times \left(\frac{N}{n}\right) \times \left(\frac{1}{r}\right) \times \left(\frac{1}{t}\right) = K \times \left(\frac{N}{n}\right) \times \left(\frac{1}{V}\right)$

Asbestos Content (as asbestos): $\%\, w/w = \frac{(m \times P_A)}{M}$

Weighted Average (of asbestos): $\%_{WA} = \sum \frac{(m \times P_A)_x}{x}$

## Terms

| | |
|---|---|
| **%asbestos** | Estimated percentage of asbestos in a given matrix. May be derived from knowledge or experience of the material, informed by HSG264 *Appendix 2*, else assumed to be 15% in accordance with WA DOH *Appendix 2* (**$P_A$**). |
| **ACM** | Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded (non-friable) condition. For the purposes of the NEPM and WA DOH, ACM corresponds to material larger than 7 mm x 7 mm. |
| **AF** | Asbestos Fines. Asbestos contamination within a soil sample, as defined by WA DOH. Includes loose fibre bundles and small pieces of friable and non-friable material such as asbestos cement fragments mixed with soil. Considered under the NEPM as equivalent to "non-bonded / friable". |
| **AFM** | Airborne Fibre Monitoring, e.g. by the MFM. |
| **Amosite** | Amosite Asbestos Detected. Amosite may also refer to Fibrous Grunerite or Brown Asbestos. Identified in accordance with AS 4964-2004. |
| **AS** | Australian Standard. |
| **Asbestos Content (as asbestos)** | Total % w/w asbestos content in asbestos-containing finds in a soil sample (**% w/w**). |
| **Chrysotile** | Chrysotile Asbestos Detected. Chrysotile may also refer to Fibrous Serpentine or White Asbestos. Identified in accordance with AS 4964-2004. |
| **COC** | Chain of Custody. |
| **Crocidolite** | Crocidolite Asbestos Detected. Crocidolite may also refer to Fibrous Riebeckite or Blue Asbestos. Identified in accordance with AS 4964-2004. |
| **Dry** | Sample is dried by heating prior to analysis. |
| **DS** | Dispersion Staining. Technique required for Unequivocal Identification of asbestos fibres by PLM. |
| **FA** | Fibrous Asbestos. Asbestos containing material that is wholly or in part friable, including materials with higher asbestos content with a propensity to become friable with handling, and any material that was previously non-friable and in a severely degraded condition. For the purposes of the NEPM and WA DOH, FA generally corresponds to material larger than 7 mm x 7 mm, although FA may be more difficult to visibly distinguish and may be assessed as AF. |
| **Fibre Count** | Total of all fibres (whether asbestos or not) meeting the counting criteria set out in the NOHSC:3003 |
| **Fibre ID** | Fibre Identification. Unequivocal identification of asbestos fibres according to AS 4964-2004. Includes Chrysotile, Amosite (Grunerite) or Crocidolite asbestos. |
| **Friable** | Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory's remit to assess degree of friability. |
| **HSG248** | UK HSE HSG248, *Asbestos: The Analysts Guide*, 2nd Edition (2021). |
| **HSG264** | UK HSE HSG264, *Asbestos: The Survey Guide* (2012). |
| **ISO (also ISO/IEC)** | International Organization for Standardization / International Electrotechnical Commission. |
| **K Factor** | Microscope constant (**K**) as derived from the effective filter area of the given AFM membrane used for collecting the sample (**A**) and the projected eyepiece graticule area of the specific microscope used for the analysis (**a**). |
| **LOR** | Limit of Reporting. |
| **MFM (also NOHSC:3003)** | Membrane Filter Method. As described by the Australian Government National Occupational Health and Safety Commission, *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres*, 2nd Edition [NOHSC:3003(2005)]. |
| **NEPM (also ASC NEPM)** | National Environment Protection (Assessment of Site Contamination) Measure, (2013, as amended). |
| **Organic** | Organic Fibres Detected. Organic may refer to Natural or Man-Made Polymeric Fibres. Identified in accordance with AS 4964-2004. |
| **PCM** | Phase Contrast Microscopy. As used for Fibre Counting according to the MFM. |
| **PLM** | Polarised Light Microscopy. As used for Fibre Identification and Trace Analysis according to AS 4964-2004. |
| **SMF** | Synthetic Mineral Fibre Detected. SMF may also refer to Man Made Vitreous Fibres. Identified in accordance with AS 4964-2004. |
| **SRA** | Sample Receipt Advice. |
| **Trace Analysis** | Analytical procedure used to detect the presence of respirable fibres (particularly asbestos) in a given sample matrix. |
| **UK HSE HSG** | United Kingdom, Health and Safety Executive, Health and Safety Guidance, publication. |
| **UMF** | Unidentified Mineral Fibre Detected. Fibrous minerals that are detected but have not been unequivocally identified by PLM with DS according the AS 4964-2004. May include (but not limited to) Actinolite, Anthophyllite or Tremolite asbestos. |
| **WA DOH** | Reference document for the NEPM. Government of Western Australia, *Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia* (updated 2021), including Appendix Four: *Laboratory analysis* |
| **Weighted Average** | Combined average % w/w asbestos content of all asbestos-containing finds in the given aliquot or total soil sample (**$\%_{WA}$**). |

## Comments

### Sample Integrity

| | |
|---|---|
| Custody Seals Intact (if used) | N/A |
| Attempt to Chill was evident | N/A |
| Sample correctly preserved | Yes |
| Appropriate sample containers have been used | Yes |
| Sample containers for volatile analysis received with minimal headspace | Yes |
| Samples received within HoldingTime | Yes |
| Some samples have been subcontracted | No |

### Asbestos Counter/Identifier:

| | |
|---|---|
| Hiren Patel | Senior Analyst-Asbestos |

### Authorised by:

| | |
|---|---|
| Zoe Burke | Senior Analyst-Asbestos |

**Glenn Jackson**
**General Manager**

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

# Certificate of Analysis

**NATA Accredited**
**Accreditation Number 1261**
**Site Number 1254**

Accredited for compliance with ISO/IEC 17025–Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

**SLR Consulting (Vic)**
**Suite 2, Grd Flr, 2 Domville Ave**
**Hawthorn**
**VIC 3122**

| | |
|---|---|
| **Attention:** | - ALL INVOICES |
| **Report** | 944925-AID |
| **Project Name** | Melbourne Innovation Centre |
| **Project ID** | 640.30578.00100 |
| **Received Date** | Nov 28, 2022 |
| **Date Reported** | Nov 29, 2022 |

## Methodology:

| | |
|---|---|
| Asbestos Fibre Identification | Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques.<br>*NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.* |
| Unknown Mineral Fibres | Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity.<br>*NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.* |
| Subsampling Soil Samples | The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed.<br>*NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.* |
| Bonded asbestos-containing material (ACM) | The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination.The resultant material is then further examined in accordance with AS 4964 - 2004.<br>*NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.* |
| Limit of Reporting | The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w).<br>The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk).<br>*NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos".This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.* |

**Project Name** Melbourne Innovation Centre
**Project ID** 640.30578.00100
**Date Sampled** Nov 27, 2022
**Report** 944925-AID

| Client Sample ID | Eurofins Sample No. | Date Sampled | Sample Description | Result |
|---|---|---|---|---|
| 12-133 - Building 3A-3D - Brewery | 22-No0065155 | Nov 27, 2022 | Approximate Sample 2g<br>Sample consisted of: Dust | Chrysotile asbestos detected in the form of fibre cement fragments approximate size: 10 x 2 x 1mm.<br><br>Organic fibre detected.<br>Synthetic mineral fibre detected.<br>No trace asbestos detected. |

## Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

| Description | Testing Site | Extracted | Holding Time |
|---|---|---|---|
| Asbestos - LTM-ASB-8020 | Melbourne | Nov 28, 2022 | Indefinite |

eurofins

web: www.eurofins.com.au
email: EnviroSales@eurofins.com

**Eurofins Environment Testing Australia Pty Ltd**
ABN: 50 005 085 521

**Melbourne**
6 Monterey Road
Dandenong South
VIC 3175
Tel: +61 3 8564 5000
NATA# 1261 Site# 1254

**Geelong**
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261 Site# 1254

**Sydney**
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
NATA# 1261 Site# 18217

**Canberra**
Unit 1,2 Dacre Street
Mitchell
ACT 2911
Tel: +61 2 6113 8091

**Brisbane**
1/21 Smallwood Place
Murarrie
QLD 4172
Tel: +61 7 3902 4600
NATA# 1261 Site# 20794

**Newcastle**
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Tel: +61 2 4968 8448
NATA# 1261 Site# 25079

**Eurofins ARL Pty Ltd**
ABN: 91 05 0159 898

**Perth**
46-48 Banksia Road
Welshpool
WA 6106
Tel: +61 8 6253 4444
NATA# 2377 Site# 2370

**Eurofins Environment Testing NZ Ltd**
NZBN: 9429046024954

**Auckland**
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

**Christchurch**
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

**Company Name:** SLR Consulting (Vic)
**Address:** Suite 2, Grd Flr, 2 Domville Ave
Hawthorn
VIC 3122

**Project Name:** Melbourne Innovation Centre
**Project ID:** 640.30578.00100

**Order No.:**
**Report #:** 944925
**Phone:** 03 9249 9400
**Fax:**

**Received:** Nov 28, 2022 12:20 PM
**Due:** Nov 29, 2022
**Priority:** 1 Day
**Contact Name:** Krishna Kadali

**Eurofins Analytical Services Manager : Harry Bacalis**

| Sample Detail | | | | | | Asbestos Absence /Presence |
|---|---|---|---|---|---|---|
| **Melbourne Laboratory - NATA # 1261 Site # 1254** | | | | | | X |
| **External Laboratory** | | | | | | |
| **No** | **Sample ID** | **Sample Date** | **Sampling Time** | **Matrix** | **LAB ID** | |
| 1 | 12-133 - Building 3A-3D - Brewery | Nov 27, 2022 | | Building Materials | M22-No0065155 | X |
| **Test Counts** | | | | | | 1 |

## Internal Quality Control Review and Glossary General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. Information identified on this report with the colour **blue** indicates data provided by customer that may have an impact on the results.
5. Information identified on this report with the colour **orange** indicates sections of the report not covered by the laboratory's scope of NATA accreditation.
6. This report replaces any interim results previously issued.

## Holding Times

Please refer to the most recent version of the 'Sample Preservation and Container Guide' for holding times (QS3001).
If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported. Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

## Units

| | |
|---|---|
| % w/w: | Percentage weight-for-weight basis, e.g. of asbestos in asbestos-containing finds in soil samples (**% w/w**) |
| F/fld | Airborne fibre filter loading as Fibres (**N**) per Fields counted (**n**) |
| F/mL | Airborne fibre reported concentration as Fibres per millilitre of air drawn over the sampler membrane (**C**) |
| g, kg | Mass, e.g. of whole sample (**M**) or asbestos-containing find within the sample (**m**) |
| g/kg | Concentration in grams per kilogram |
| L, mL | Volume, e.g. of air as measured in AFM (**V** = **r** x **t**) |
| L/min | Airborne fibre sampling Flowrate as litres per minute of air drawn over the sampler membrane (**r**) |
| min | Time (**t**), e.g. of air sample collection period |

## Calculations

Airborne Fibre Concentration: $C = \left(\frac{A}{a}\right) \times \left(\frac{N}{n}\right) \times \left(\frac{1}{r}\right) \times \left(\frac{1}{t}\right) = K \times \left(\frac{N}{n}\right) \times \left(\frac{1}{V}\right)$

Asbestos Content (as asbestos): $\%\, w/w = \frac{(m \times P_A)}{M}$

Weighted Average (of asbestos): $\%_{WA} = \sum \frac{(m \times P_A)_x}{x}$

## Terms

| | |
|---|---|
| **%asbestos** | Estimated percentage of asbestos in a given matrix. May be derived from knowledge or experience of the material, informed by HSG264 *Appendix 2*, else assumed to be 15% in accordance with WA DOH *Appendix 2* (**$P_A$**). |
| **ACM** | Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded (non-friable) condition. For the purposes of the NEPM and WA DOH, ACM corresponds to material larger than 7 mm x 7 mm. |
| **AF** | Asbestos Fines. Asbestos contamination within a soil sample, as defined by WA DOH. Includes loose fibre bundles and small pieces of friable and non-friable material such as asbestos cement fragments mixed with soil. Considered under the NEPM as equivalent to "non-bonded / friable". |
| **AFM** | Airborne Fibre Monitoring, e.g. by the MFM. |
| **Amosite** | Amosite Asbestos Detected. Amosite may also refer to Fibrous Grunerite or Brown Asbestos. Identified in accordance with AS 4964-2004. |
| **AS** | Australian Standard. |
| **Asbestos Content (as asbestos)** | Total % w/w asbestos content in asbestos-containing finds in a soil sample (**% w/w**). |
| **Chrysotile** | Chrysotile Asbestos Detected. Chrysotile may also refer to Fibrous Serpentine or White Asbestos. Identified in accordance with AS 4964-2004. |
| **COC** | Chain of Custody. |
| **Crocidolite** | Crocidolite Asbestos Detected. Crocidolite may also refer to Fibrous Riebeckite or Blue Asbestos. Identified in accordance with AS 4964-2004. |
| **Dry** | Sample is dried by heating prior to analysis. |
| **DS** | Dispersion Staining. Technique required for Unequivocal Identification of asbestos fibres by PLM. |
| **FA** | Fibrous Asbestos. Asbestos containing material that is wholly or in part friable, including materials with higher asbestos content with a propensity to become friable with handling, and any material that was previously non-friable and in a severely degraded condition. For the purposes of the NEPM and WA DOH, FA generally corresponds to material larger than 7 mm x 7 mm, although FA may be more difficult to visibly distinguish and may be assessed as AF. |
| **Fibre Count** | Total of all fibres (whether asbestos or not) meeting the counting criteria set out in the NOHSC:3003 |
| **Fibre ID** | Fibre Identification. Unequivocal identification of asbestos fibres according to AS 4964-2004. Includes Chrysotile, Amosite (Grunerite) or Crocidolite asbestos. |
| **Friable** | Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory's remit to assess degree of friability. |
| **HSG248** | UK HSE HSG248, *Asbestos: The Analysts Guide*, 2nd Edition (2021). |
| **HSG264** | UK HSE HSG264, *Asbestos: The Survey Guide* (2012). |
| **ISO (also ISO/IEC)** | International Organization for Standardization / International Electrotechnical Commission. |
| **K Factor** | Microscope constant (**K**) as derived from the effective filter area of the given AFM membrane used for collecting the sample (**A**) and the projected eyepiece graticule area of the specific microscope used for the analysis (**a**). |
| **LOR** | Limit of Reporting. |
| **MFM (also NOHSC:3003)** | Membrane Filter Method. As described by the Australian Government National Occupational Health and Safety Commission, *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres*, 2nd Edition [NOHSC:3003(2005)]. |
| **NEPM (also ASC NEPM)** | National Environment Protection (Assessment of Site Contamination) Measure, (2013, as amended). |
| **Organic** | Organic Fibres Detected. Organic may refer to Natural or Man-Made Polymeric Fibres. Identified in accordance with AS 4964-2004. |
| **PCM** | Phase Contrast Microscopy. As used for Fibre Counting according to the MFM. |
| **PLM** | Polarised Light Microscopy. As used for Fibre Identification and Trace Analysis according to AS 4964-2004. |
| **SMF** | Synthetic Mineral Fibre Detected. SMF may also refer to Man Made Vitreous Fibres. Identified in accordance with AS 4964-2004. |
| **SRA** | Sample Receipt Advice. |
| **Trace Analysis** | Analytical procedure used to detect the presence of respirable fibres (particularly asbestos) in a given sample matrix. |
| **UK HSE HSG** | United Kingdom, Health and Safety Executive, Health and Safety Guidance, publication. |
| **UMF** | Unidentified Mineral Fibre Detected. Fibrous minerals that are detected but have not been unequivocally identified by PLM with DS according the AS 4964-2004. May include (but not limited to) Actinolite, Anthophyllite or Tremolite asbestos. |
| **WA DOH** | Reference document for the NEPM. Government of Western Australia, *Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia* (updated 2021), including Appendix Four: *Laboratory analysis* |
| **Weighted Average** | Combined average % w/w asbestos content of all asbestos-containing finds in the given aliquot or total soil sample (**$\%_{WA}$**). |

## Comments

### Sample Integrity

| | |
|---|---|
| Custody Seals Intact (if used) | N/A |
| Attempt to Chill was evident | N/A |
| Sample correctly preserved | Yes |
| Appropriate sample containers have been used | Yes |
| Sample containers for volatile analysis received with minimal headspace | Yes |
| Samples received within HoldingTime | Yes |
| Some samples have been subcontracted | No |

### Asbestos Counter/Identifier:

| | |
|---|---|
| Hiren Patel | Senior Analyst-Asbestos |

### Authorised by:

| | |
|---|---|
| Zoe Burke | Senior Analyst-Asbestos |

**Glenn Jackson**
**General Manager**

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

# Certificate of Analysis

eurofins | Environment Testing

**NATA Accredited**
**Accreditation Number 1261**
**Site Number 1254**

Accredited for compliance with ISO/IEC 17025–Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

**SLR Consulting (Vic)**
**Suite 2, Grd Flr, 2 Domville Ave**
**Hawthorn**
**VIC 3122**

| | |
|---|---|
| **Attention:** | James Bracken |
| **Report** | 946366-AID |
| **Project Name** | MELBOURNE INNOVATION CENTRE |
| **Project ID** | 640.30578.00300 |
| **Received Date** | Dec 01, 2022 |
| **Date Reported** | Dec 02, 2022 |

## Methodology:

| | |
|---|---|
| Asbestos Fibre Identification | Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques.<br>*NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.* |
| Unknown Mineral Fibres | Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity.<br>*NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.* |
| Subsampling Soil Samples | The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed.<br>*NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.* |
| Bonded asbestos-containing material (ACM) | The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination.The resultant material is then further examined in accordance with AS 4964 - 2004.<br>*NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.* |
| Limit of Reporting | The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w).<br>The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk).<br>*NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos".This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.* |

**Project Name** MELBOURNE INNOVATION CENTRE
**Project ID** 640.30578.00300
**Date Sampled** Dec 01, 2022
**Report** 946366-AID

| Client Sample ID | Eurofins Sample No. | Date Sampled | Sample Description | Result |
|---|---|---|---|---|
| 12-139 - BUILDING 3A - WORKSHOP WEST | 22-De0002294 | Dec 01, 2022 | Approximate Sample 1g / -mm<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Synthetic mineral fibre detected.<br>Organic fibre detected.<br>No trace asbestos detected. |
| 12-140 - BUILDING 3A - WORKSHOP WEST | 22-De0002295 | Dec 01, 2022 | Approximate Sample 2g / -mm<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Synthetic mineral fibre detected.<br>Organic fibre detected.<br>No trace asbestos detected. |
| 12-141 - BUILDING 3A - WORKSHOP WEST | 22-De0002296 | Dec 01, 2022 | Approximate Sample 1g / -mm<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Synthetic mineral fibre detected.<br>Organic fibre detected.<br>No trace asbestos detected. |
| 12-142 - BUILDING 3A - WORKSHOP WEST | 22-De0002297 | Dec 01, 2022 | Approximate Sample 1g / -mm<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Synthetic mineral fibre detected.<br>Organic fibre detected.<br>No trace asbestos detected. |
| 12-143 - BUILDING 3A - WORKSHOP WEST | 22-De0002298 | Dec 01, 2022 | Approximate Sample 1g / -mm<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Synthetic mineral fibre detected.<br>Organic fibre detected.<br>No trace asbestos detected. |
| 12-144 - BUILDING 3A - WORKSHOP WEST | 22-De0002299 | Dec 01, 2022 | Approximate Sample 2g / -mm<br>Sample consisted of: Dust | Chrysotile asbestos detected in the form of loose fibre bundle.<br>Approximate dimensions: 5 x 1 x 1mm.<br><br>Organic fibre detected.<br>Synthetic mineral fibre detected.<br>No trace asbestos detected. |

| Client Sample ID | Eurofins Sample No. | Date Sampled | Sample Description | Result |
|---|---|---|---|---|
| 12-158 - BUILDING 3A - WORKSHOP WEST | 22-De0002300 | Dec 01, 2022 | Approximate Sample 1g / -mm<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Organic fibre detected.<br>No trace asbestos detected. |
| 12-159 - BUILDING 3A - WORKSHOP WEST | 22-De0002301 | Dec 01, 2022 | Approximate Sample 3g / -mm<br>Sample consisted of: Dust | Chrysotile asbestos detected in the form of loose fibre bundle.<br>Approximate dimensions: 2 x 1 x 1mm.<br><br>Organic fibre detected.<br>Synthetic mineral fibre detected.<br>No trace asbestos detected. |
| 12-160 - BUILDING 3A - WORKSHOP WEST | 22-De0002302 | Dec 01, 2022 | Approximate Sample 1g / -mm<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Synthetic mineral fibre detected.<br>Organic fibre detected.<br>No trace asbestos detected. |
| 12-161 - BUILDING 3A - OFFICE (LEFT) | 22-De0002303 | Dec 01, 2022 | Approximate Sample 1g / -mm<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Synthetic mineral fibre detected.<br>Organic fibre detected.<br>No trace asbestos detected. |

## Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

| Description | Testing Site | Extracted | Holding Time |
|---|---|---|---|
| Asbestos - LTM-ASB-8020 | Melbourne | Dec 01, 2022 | Indefinite |

eurofins

web: www.eurofins.com.au
email: EnviroSales@eurofins.com

**Eurofins Environment Testing Australia Pty Ltd**
ABN: 50 005 085 521

**Melbourne**
6 Monterey Road
Dandenong South
VIC 3175
Tel: +61 3 8564 5000
NATA# 1261 Site# 1254

**Geelong**
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261 Site# 1254

**Sydney**
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
NATA# 1261 Site# 18217

**Canberra**
Unit 1,2 Dacre Street
Mitchell
ACT 2911
Tel: +61 2 6113 8091

**Brisbane**
1/21 Smallwood Place
Murarrie
QLD 4172
Tel: +61 7 3902 4600
NATA# 1261 Site# 20794

**Newcastle**
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Tel: +61 2 4968 8448
NATA# 1261 Site# 25079

**Eurofins ARL Pty Ltd**
ABN: 91 05 0159 898

**Perth**
46-48 Banksia Road
Welshpool
WA 6106
Tel: +61 8 6253 4444
NATA# 2377 Site# 2370

**Eurofins Environment Testing NZ Ltd**
NZBN: 9429046024954

**Auckland**
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

**Christchurch**
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

**Company Name:** SLR Consulting (Vic)
**Address:** Suite 2, Grd Flr, 2 Domville Ave
Hawthorn
VIC 3122

**Project Name:** MELBOURNE INNOVATION CENTRE
**Project ID:** 640.30578.00300

**Order No.:**
**Report #:** 946366
**Phone:** 03 9249 9400
**Fax:**

**Received:** Dec 1, 2022 4:54 PM
**Due:** Dec 2, 2022
**Priority:** 1 Day
**Contact Name:** James Bracken

**Eurofins Analytical Services Manager : Harry Bacalis**

| Sample Detail | | | | | | Asbestos Absence /Presence |
|---|---|---|---|---|---|---|
| **Melbourne Laboratory - NATA # 1261 Site # 1254** | | | | | | X |
| **External Laboratory** | | | | | | |
| **No** | **Sample ID** | **Sample Date** | **Sampling Time** | **Matrix** | **LAB ID** | |
| 1 | 12-139 - BUILDING 3A - WORKSHOP WEST | Dec 01, 2022 | | Building Materials | M22-De0002294 | X |
| 2 | 12-140 - BUILDING 3A - WORKSHOP WEST | Dec 01, 2022 | | Building Materials | M22-De0002295 | X |
| 3 | 12-141 - BUILDING 3A - WORKSHOP WEST | Dec 01, 2022 | | Building Materials | M22-De0002296 | X |
| 4 | 12-142 - BUILDING 3A - WORKSHOP WEST | Dec 01, 2022 | | Building Materials | M22-De0002297 | X |
| 5 | 12-143 - | Dec 01, 2022 | | Building | M22-De0002298 | X |

eurofins

web: www.eurofins.com.au
email: EnviroSales@eurofins.com

**Eurofins Environment Testing Australia Pty Ltd**
ABN: 50 005 085 521

**Melbourne**
6 Monterey Road
Dandenong South
VIC 3175
Tel: +61 3 8564 5000
NATA# 1261 Site# 1254

**Geelong**
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261 Site# 1254

**Sydney**
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
NATA# 1261 Site# 18217

**Canberra**
Unit 1,2 Dacre Street
Mitchell
ACT 2911
Tel: +61 2 6113 8091

**Brisbane**
1/21 Smallwood Place
Murarrie
QLD 4172
Tel: +61 7 3902 4600
NATA# 1261 Site# 20794

**Newcastle**
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Tel: +61 2 4968 8448
NATA# 1261 Site# 25079

**Eurofins ARL Pty Ltd**
ABN: 91 05 0159 898

**Perth**
46-48 Banksia Road
Welshpool
WA 6106
Tel: +61 8 6253 4444
NATA# 2377 Site# 2370

**Eurofins Environment Testing NZ Ltd**
NZBN: 9429046024954

**Auckland**
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

**Christchurch**
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

**Company Name:** SLR Consulting (Vic)
**Address:** Suite 2, Grd Flr, 2 Domville Ave
Hawthorn
VIC 3122

**Project Name:** MELBOURNE INNOVATION CENTRE
**Project ID:** 640.30578.00300

**Order No.:**
**Report #:** 946366
**Phone:** 03 9249 9400
**Fax:**

**Received:** Dec 1, 2022 4:54 PM
**Due:** Dec 2, 2022
**Priority:** 1 Day
**Contact Name:** James Bracken

**Eurofins Analytical Services Manager : Harry Bacalis**

| Sample Detail | | | | | | Asbestos Absence /Presence |
|---|---|---|---|---|---|---|
| **Melbourne Laboratory - NATA # 1261 Site # 1254** | | | | | | X |
| | BUILDING 3A - WORKSHOP WEST | | | Materials | | |
| 6 | 12-144 - BUILDING 3A - WORKSHOP WEST | Dec 01, 2022 | | Building Materials | M22-De0002299 | X |
| 7 | 12-158 - BUILDING 3A - WORKSHOP WEST | Dec 01, 2022 | | Building Materials | M22-De0002300 | X |
| 8 | 12-159 - BUILDING 3A - WORKSHOP WEST | Dec 01, 2022 | | Building Materials | M22-De0002301 | X |
| 9 | 12-160 - BUILDING 3A - WORKSHOP WEST | Dec 01, 2022 | | Building Materials | M22-De0002302 | X |
| 10 | 12-161 - BUILDING 3A | Dec 01, 2022 | | Building Materials | M22-De0002303 | X |

eurofins

web: www.eurofins.com.au
email: EnviroSales@eurofins.com

**Eurofins Environment Testing Australia Pty Ltd**
ABN: 50 005 085 521

**Melbourne**
6 Monterey Road
Dandenong South
VIC 3175
Tel: +61 3 8564 5000
NATA# 1261 Site# 1254

**Geelong**
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261 Site# 1254

**Sydney**
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
NATA# 1261 Site# 18217

**Canberra**
Unit 1,2 Dacre Street
Mitchell
ACT 2911
Tel: +61 2 6113 8091

**Brisbane**
1/21 Smallwood Place
Murarrie
QLD 4172
Tel: +61 7 3902 4600
NATA# 1261 Site# 20794

**Newcastle**
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Tel: +61 2 4968 8448
NATA# 1261 Site# 25079

**Eurofins ARL Pty Ltd**
ABN: 91 05 0159 898

**Perth**
46-48 Banksia Road
Welshpool
WA 6106
Tel: +61 8 6253 4444
NATA# 2377 Site# 2370

**Eurofins Environment Testing NZ Ltd**
NZBN: 9429046024954

**Auckland**
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

**Christchurch**
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

**Company Name:** SLR Consulting (Vic)
**Address:** Suite 2, Grd Flr, 2 Domville Ave
Hawthorn
VIC 3122

**Project Name:** MELBOURNE INNOVATION CENTRE
**Project ID:** 640.30578.00300

**Order No.:**
**Report #:** 946366
**Phone:** 03 9249 9400
**Fax:**

**Received:** Dec 1, 2022 4:54 PM
**Due:** Dec 2, 2022
**Priority:** 1 Day
**Contact Name:** James Bracken

**Eurofins Analytical Services Manager : Harry Bacalis**

| Sample Detail | | | | | | Asbestos Absence /Presence |
|---|---|---|---|---|---|---|
| **Melbourne Laboratory - NATA # 1261 Site # 1254** | | | | | | X |
| | BUILDING 3A - OFFICE (LEFT) | | | Materials | | |
| **Test Counts** | | | | | | 10 |

## Internal Quality Control Review and Glossary General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. Information identified on this report with the colour **blue** indicates data provided by customer that may have an impact on the results.
5. Information identified on this report with the colour **orange** indicates sections of the report not covered by the laboratory's scope of NATA accreditation.
6. This report replaces any interim results previously issued.

## Holding Times

Please refer to the most recent version of the 'Sample Preservation and Container Guide' for holding times (QS3001).
If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported. Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

## Units

| | |
|---|---|
| % w/w: | Percentage weight-for-weight basis, e.g. of asbestos in asbestos-containing finds in soil samples (**% w/w**) |
| F/fld | Airborne fibre filter loading as Fibres (**N**) per Fields counted (**n**) |
| F/mL | Airborne fibre reported concentration as Fibres per millilitre of air drawn over the sampler membrane (**C**) |
| g, kg | Mass, e.g. of whole sample (**M**) or asbestos-containing find within the sample (**m**) |
| g/kg | Concentration in grams per kilogram |
| L, mL | Volume, e.g. of air as measured in AFM (**V** = **r** x **t**) |
| L/min | Airborne fibre sampling Flowrate as litres per minute of air drawn over the sampler membrane (**r**) |
| min | Time (**t**), e.g. of air sample collection period |

## Calculations

Airborne Fibre Concentration: $C = \left(\frac{A}{a}\right) \times \left(\frac{N}{n}\right) \times \left(\frac{1}{r}\right) \times \left(\frac{1}{t}\right) = K \times \left(\frac{N}{n}\right) \times \left(\frac{1}{V}\right)$

Asbestos Content (as asbestos): $\%\, w/w = \frac{(m \times P_A)}{M}$

Weighted Average (of asbestos): $\%_{WA} = \sum \frac{(m \times P_A)_x}{x}$

## Terms

| | |
|---|---|
| **%asbestos** | Estimated percentage of asbestos in a given matrix. May be derived from knowledge or experience of the material, informed by HSG264 *Appendix 2*, else assumed to be 15% in accordance with WA DOH *Appendix 2* (**$P_A$**). |
| **ACM** | Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded (non-friable) condition. For the purposes of the NEPM and WA DOH, ACM corresponds to material larger than 7 mm x 7 mm. |
| **AF** | Asbestos Fines. Asbestos contamination within a soil sample, as defined by WA DOH. Includes loose fibre bundles and small pieces of friable and non-friable material such as asbestos cement fragments mixed with soil. Considered under the NEPM as equivalent to "non-bonded / friable". |
| **AFM** | Airborne Fibre Monitoring, e.g. by the MFM. |
| **Amosite** | Amosite Asbestos Detected. Amosite may also refer to Fibrous Grunerite or Brown Asbestos. Identified in accordance with AS 4964-2004. |
| **AS** | Australian Standard. |
| **Asbestos Content (as asbestos)** | Total % w/w asbestos content in asbestos-containing finds in a soil sample (**% w/w**). |
| **Chrysotile** | Chrysotile Asbestos Detected. Chrysotile may also refer to Fibrous Serpentine or White Asbestos. Identified in accordance with AS 4964-2004. |
| **COC** | Chain of Custody. |
| **Crocidolite** | Crocidolite Asbestos Detected. Crocidolite may also refer to Fibrous Riebeckite or Blue Asbestos. Identified in accordance with AS 4964-2004. |
| **Dry** | Sample is dried by heating prior to analysis. |
| **DS** | Dispersion Staining. Technique required for Unequivocal Identification of asbestos fibres by PLM. |
| **FA** | Fibrous Asbestos. Asbestos containing material that is wholly or in part friable, including materials with higher asbestos content with a propensity to become friable with handling, and any material that was previously non-friable and in a severely degraded condition. For the purposes of the NEPM and WA DOH, FA generally corresponds to material larger than 7 mm x 7 mm, although FA may be more difficult to visibly distinguish and may be assessed as AF. |
| **Fibre Count** | Total of all fibres (whether asbestos or not) meeting the counting criteria set out in the NOHSC:3003 |
| **Fibre ID** | Fibre Identification. Unequivocal identification of asbestos fibres according to AS 4964-2004. Includes Chrysotile, Amosite (Grunerite) or Crocidolite asbestos. |
| **Friable** | Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory's remit to assess degree of friability. |
| **HSG248** | UK HSE HSG248, *Asbestos: The Analysts Guide*, 2nd Edition (2021). |
| **HSG264** | UK HSE HSG264, *Asbestos: The Survey Guide* (2012). |
| **ISO (also ISO/IEC)** | International Organization for Standardization / International Electrotechnical Commission. |
| **K Factor** | Microscope constant (**K**) as derived from the effective filter area of the given AFM membrane used for collecting the sample (**A**) and the projected eyepiece graticule area of the specific microscope used for the analysis (**a**). |
| **LOR** | Limit of Reporting. |
| **MFM (also NOHSC:3003)** | Membrane Filter Method. As described by the Australian Government National Occupational Health and Safety Commission, *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres*, 2nd Edition [NOHSC:3003(2005)]. |
| **NEPM (also ASC NEPM)** | National Environment Protection (Assessment of Site Contamination) Measure, (2013, as amended). |
| **Organic** | Organic Fibres Detected. Organic may refer to Natural or Man-Made Polymeric Fibres. Identified in accordance with AS 4964-2004. |
| **PCM** | Phase Contrast Microscopy. As used for Fibre Counting according to the MFM. |
| **PLM** | Polarised Light Microscopy. As used for Fibre Identification and Trace Analysis according to AS 4964-2004. |
| **SMF** | Synthetic Mineral Fibre Detected. SMF may also refer to Man Made Vitreous Fibres. Identified in accordance with AS 4964-2004. |
| **SRA** | Sample Receipt Advice. |
| **Trace Analysis** | Analytical procedure used to detect the presence of respirable fibres (particularly asbestos) in a given sample matrix. |
| **UK HSE HSG** | United Kingdom, Health and Safety Executive, Health and Safety Guidance, publication. |
| **UMF** | Unidentified Mineral Fibre Detected. Fibrous minerals that are detected but have not been unequivocally identified by PLM with DS according the AS 4964-2004. May include (but not limited to) Actinolite, Anthophyllite or Tremolite asbestos. |
| **WA DOH** | Reference document for the NEPM. Government of Western Australia, *Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia* (updated 2021), including Appendix Four: *Laboratory analysis* |
| **Weighted Average** | Combined average % w/w asbestos content of all asbestos-containing finds in the given aliquot or total soil sample (**$\%_{WA}$**). |

## Comments

### Sample Integrity

| | |
|---|---|
| Custody Seals Intact (if used) | N/A |
| Attempt to Chill was evident | N/A |
| Sample correctly preserved | Yes |
| Appropriate sample containers have been used | Yes |
| Sample containers for volatile analysis received with minimal headspace | Yes |
| Samples received within HoldingTime | Yes |
| Some samples have been subcontracted | No |

### Asbestos Counter/Identifier:

| | |
|---|---|
| Zoe Burke | Senior Analyst-Asbestos |

### Authorised by:

| | |
|---|---|
| Sophie Bush | Senior Analyst-Asbestos |

**Glenn Jackson**
**General Manager**

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

# Certificate of Analysis

**NATA Accredited**
**Accreditation Number 1261**
**Site Number 1254**

Accredited for compliance with ISO/IEC 17025–Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

**SLR Consulting (Vic)**
**Suite 2, Grd Flr, 2 Domville Ave**
**Hawthorn**
**VIC 3122**

| | |
|---|---|
| **Attention:** | James Bracken |
| **Report** | 946359-AID |
| **Project Name** | MELBOURNE INNOVATION CENTRE |
| **Project ID** | 640.30578.00300 |
| **Received Date** | Dec 01, 2022 |
| **Date Reported** | Dec 02, 2022 |

## Methodology:

| | |
|---|---|
| Asbestos Fibre Identification | Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques.<br>*NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.* |
| Unknown Mineral Fibres | Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity.<br>*NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.* |
| Subsampling Soil Samples | The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed.<br>*NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.* |
| Bonded asbestos-containing material (ACM) | The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination.The resultant material is then further examined in accordance with AS 4964 - 2004.<br>*NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.* |
| Limit of Reporting | The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w).<br>The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk).<br>*NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos".This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.* |

**Project Name** MELBOURNE INNOVATION CENTRE
**Project ID** 640.30578.00300
**Date Sampled** Dec 01, 2022
**Report** 946359-AID

| Client Sample ID | Eurofins Sample No. | Date Sampled | Sample Description | Result |
|---|---|---|---|---|
| 12-162 - BUILDING 3A - WORKSHOP EAST | 22-De0002198 | Dec 01, 2022 | Approximate Sample 2g<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Organic fibres detected.<br>No trace asbestos detected. |
| 12-163 - BUILDING 3A - WORKSHOP EAST | 22-De0002199 | Dec 01, 2022 | Approximate Sample 2g<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Organic fibres detected.<br>No trace asbestos detected. |
| 12-164 - BUILDING 3A - WORKSHOP WEST | 22-De0002200 | Dec 01, 2022 | Approximate Sample 11g<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Synthetic mineral fibres detected.<br>Organic fibres detected.<br>No trace asbestos detected. |
| 12-165 - BUILDING 3A - OFFICE (LEFT) | 22-De0002201 | Dec 01, 2022 | Approximate Sample 4g<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Organic fibres detected.<br>No trace asbestos detected. |
| 12-166 - BUILDING 3A - WORKSHOP EAST | 22-De0002202 | Dec 01, 2022 | Approximate Sample 1g<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Organic fibres detected.<br>No trace asbestos detected. |
| 12-167 - BUILDING 3A - WORKSHOP MEZZANINE | 22-De0002203 | Dec 01, 2022 | Approximate Sample 2g<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Synthetic mineral fibres detected.<br>Organic fibres detected.<br>No trace asbestos detected. |
| 12-168 - BUILDING 3A - WORKSHOP MEZZANINE | 22-De0002204 | Dec 01, 2022 | Approximate Sample 4g<br>Sample consisted of: Dust | No asbestos detected at the reporting limit of 0.01% w/w.<br>Synthetic mineral fibres detected.<br>Organic fibres detected.<br>No trace asbestos detected. |

## Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

| Description | Testing Site | Extracted | Holding Time |
|---|---|---|---|
| Asbestos - LTM-ASB-8020 | Melbourne | Dec 01, 2022 | Indefinite |

eurofins

web: www.eurofins.com.au
email: EnviroSales@eurofins.com

**Eurofins Environment Testing Australia Pty Ltd**
ABN: 50 005 085 521

**Melbourne**
6 Monterey Road
Dandenong South
VIC 3175
Tel: +61 3 8564 5000
NATA# 1261 Site# 1254

**Geelong**
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261 Site# 1254

**Sydney**
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
NATA# 1261 Site# 18217

**Canberra**
Unit 1,2 Dacre Street
Mitchell
ACT 2911
Tel: +61 2 6113 8091

**Brisbane**
1/21 Smallwood Place
Murarrie
QLD 4172
Tel: +61 7 3902 4600
NATA# 1261 Site# 20794

**Newcastle**
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Tel: +61 2 4968 8448
NATA# 1261 Site# 25079

**Eurofins ARL Pty Ltd**
ABN: 91 05 0159 898

**Perth**
46-48 Banksia Road
Welshpool
WA 6106
Tel: +61 8 6253 4444
NATA# 2377 Site# 2370

**Eurofins Environment Testing NZ Ltd**
NZBN: 9429046024954

**Auckland**
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

**Christchurch**
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

**Company Name:** SLR Consulting (Vic)
**Address:** Suite 2, Grd Flr, 2 Domville Ave
Hawthorn
VIC 3122

**Project Name:** MELBOURNE INNOVATION CENTRE
**Project ID:** 640.30578.00300

**Order No.:**
**Report #:** 946359
**Phone:** 03 9249 9400
**Fax:**

**Received:** Dec 1, 2022 4:54 PM
**Due:** Dec 2, 2022
**Priority:** 1 Day
**Contact Name:** James Bracken

**Eurofins Analytical Services Manager : Harry Bacalis**

| Sample Detail | | | | | | Asbestos Absence /Presence |
|---|---|---|---|---|---|---|
| **Melbourne Laboratory - NATA # 1261 Site # 1254** | | | | | | X |
| **External Laboratory** | | | | | | |
| **No** | **Sample ID** | **Sample Date** | **Sampling Time** | **Matrix** | **LAB ID** | |
| 1 | 12-162 - BUILDING 3A - WORKSHOP EAST | Dec 01, 2022 | | Building Materials | M22-De0002198 | X |
| 2 | 12-163 - BUILDING 3A - WORKSHOP EAST | Dec 01, 2022 | | Building Materials | M22-De0002199 | X |
| 3 | 12-164 - BUILDING 3A - WORKSHOP WEST | Dec 01, 2022 | | Building Materials | M22-De0002200 | X |
| 4 | 12-165 - BUILDING 3A - OFFICE (LEFT) | Dec 01, 2022 | | Building Materials | M22-De0002201 | X |
| 5 | 12-166 - | Dec 01, 2022 | | Building | M22-De0002202 | X |

eurofins

web: www.eurofins.com.au
email: EnviroSales@eurofins.com

**Eurofins Environment Testing Australia Pty Ltd**
ABN: 50 005 085 521

**Melbourne**
6 Monterey Road
Dandenong South
VIC 3175
Tel: +61 3 8564 5000
NATA# 1261 Site# 1254

**Geelong**
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261 Site# 1254

**Sydney**
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
NATA# 1261 Site# 18217

**Canberra**
Unit 1,2 Dacre Street
Mitchell
ACT 2911
Tel: +61 2 6113 8091

**Brisbane**
1/21 Smallwood Place
Murarrie
QLD 4172
Tel: +61 7 3902 4600
NATA# 1261 Site# 20794

**Newcastle**
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Tel: +61 2 4968 8448
NATA# 1261 Site# 25079

**Eurofins ARL Pty Ltd**
ABN: 91 05 0159 898

**Perth**
46-48 Banksia Road
Welshpool
WA 6106
Tel: +61 8 6253 4444
NATA# 2377 Site# 2370

**Eurofins Environment Testing NZ Ltd**
NZBN: 9429046024954

**Auckland**
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

**Christchurch**
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

**Company Name:** SLR Consulting (Vic)
**Address:** Suite 2, Grd Flr, 2 Domville Ave
Hawthorn
VIC 3122

**Project Name:** MELBOURNE INNOVATION CENTRE
**Project ID:** 640.30578.00300

**Order No.:**
**Report #:** 946359
**Phone:** 03 9249 9400
**Fax:**

**Received:** Dec 1, 2022 4:54 PM
**Due:** Dec 2, 2022
**Priority:** 1 Day
**Contact Name:** James Bracken

**Eurofins Analytical Services Manager : Harry Bacalis**

| Sample Detail | | | | | | Asbestos Absence /Presence |
|---|---|---|---|---|---|---|
| **Melbourne Laboratory - NATA # 1261 Site # 1254** | | | | | | X |
| | BUILDING 3A - WORKSHOP EAST | | | Materials | | |
| 6 | 12-167 - BUILDING 3A - WORKSHOP MEZZANINE | Dec 01, 2022 | | Building Materials | M22-De0002203 | X |
| 7 | 12-168 - BUILDING 3A - WORKSHOP MEZZANINE | Dec 01, 2022 | | Building Materials | M22-De0002204 | X |
| **Test Counts** | | | | | | 7 |

## Internal Quality Control Review and Glossary General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. Information identified on this report with the colour **blue** indicates data provided by customer that may have an impact on the results.
5. Information identified on this report with the colour **orange** indicates sections of the report not covered by the laboratory's scope of NATA accreditation.
6. This report replaces any interim results previously issued.

## Holding Times

Please refer to the most recent version of the 'Sample Preservation and Container Guide' for holding times (QS3001).
If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported. Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

## Units

| | |
|---|---|
| % w/w: | Percentage weight-for-weight basis, e.g. of asbestos in asbestos-containing finds in soil samples (**% w/w**) |
| F/fld | Airborne fibre filter loading as Fibres (**N**) per Fields counted (**n**) |
| F/mL | Airborne fibre reported concentration as Fibres per millilitre of air drawn over the sampler membrane (**C**) |
| g, kg | Mass, e.g. of whole sample (**M**) or asbestos-containing find within the sample (**m**) |
| g/kg | Concentration in grams per kilogram |
| L, mL | Volume, e.g. of air as measured in AFM (**V** = **r** x **t**) |
| L/min | Airborne fibre sampling Flowrate as litres per minute of air drawn over the sampler membrane (**r**) |
| min | Time (**t**), e.g. of air sample collection period |

## Calculations

Airborne Fibre Concentration: $C = \left(\frac{A}{a}\right) \times \left(\frac{N}{n}\right) \times \left(\frac{1}{r}\right) \times \left(\frac{1}{t}\right) = K \times \left(\frac{N}{n}\right) \times \left(\frac{1}{V}\right)$

Asbestos Content (as asbestos): $\%\, w/w = \frac{(m \times P_A)}{M}$

Weighted Average (of asbestos): $\%_{WA} = \sum \frac{(m \times P_A)_x}{x}$

## Terms

| | |
|---|---|
| **%asbestos** | Estimated percentage of asbestos in a given matrix. May be derived from knowledge or experience of the material, informed by HSG264 *Appendix 2*, else assumed to be 15% in accordance with WA DOH *Appendix 2* (**$P_A$**). |
| **ACM** | Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded (non-friable) condition. For the purposes of the NEPM and WA DOH, ACM corresponds to material larger than 7 mm x 7 mm. |
| **AF** | Asbestos Fines. Asbestos contamination within a soil sample, as defined by WA DOH. Includes loose fibre bundles and small pieces of friable and non-friable material such as asbestos cement fragments mixed with soil. Considered under the NEPM as equivalent to "non-bonded / friable". |
| **AFM** | Airborne Fibre Monitoring, e.g. by the MFM. |
| **Amosite** | Amosite Asbestos Detected. Amosite may also refer to Fibrous Grunerite or Brown Asbestos. Identified in accordance with AS 4964-2004. |
| **AS** | Australian Standard. |
| **Asbestos Content (as asbestos)** | Total % w/w asbestos content in asbestos-containing finds in a soil sample (**% w/w**). |
| **Chrysotile** | Chrysotile Asbestos Detected. Chrysotile may also refer to Fibrous Serpentine or White Asbestos. Identified in accordance with AS 4964-2004. |
| **COC** | Chain of Custody. |
| **Crocidolite** | Crocidolite Asbestos Detected. Crocidolite may also refer to Fibrous Riebeckite or Blue Asbestos. Identified in accordance with AS 4964-2004. |
| **Dry** | Sample is dried by heating prior to analysis. |
| **DS** | Dispersion Staining. Technique required for Unequivocal Identification of asbestos fibres by PLM. |
| **FA** | Fibrous Asbestos. Asbestos containing material that is wholly or in part friable, including materials with higher asbestos content with a propensity to become friable with handling, and any material that was previously non-friable and in a severely degraded condition. For the purposes of the NEPM and WA DOH, FA generally corresponds to material larger than 7 mm x 7 mm, although FA may be more difficult to visibly distinguish and may be assessed as AF. |
| **Fibre Count** | Total of all fibres (whether asbestos or not) meeting the counting criteria set out in the NOHSC:3003 |
| **Fibre ID** | Fibre Identification. Unequivocal identification of asbestos fibres according to AS 4964-2004. Includes Chrysotile, Amosite (Grunerite) or Crocidolite asbestos. |
| **Friable** | Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory's remit to assess degree of friability. |
| **HSG248** | UK HSE HSG248, *Asbestos: The Analysts Guide*, 2nd Edition (2021). |
| **HSG264** | UK HSE HSG264, *Asbestos: The Survey Guide* (2012). |
| **ISO (also ISO/IEC)** | International Organization for Standardization / International Electrotechnical Commission. |
| **K Factor** | Microscope constant (**K**) as derived from the effective filter area of the given AFM membrane used for collecting the sample (**A**) and the projected eyepiece graticule area of the specific microscope used for the analysis (**a**). |
| **LOR** | Limit of Reporting. |
| **MFM (also NOHSC:3003)** | Membrane Filter Method. As described by the Australian Government National Occupational Health and Safety Commission, *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres*, 2nd Edition [NOHSC:3003(2005)]. |
| **NEPM (also ASC NEPM)** | National Environment Protection (Assessment of Site Contamination) Measure, (2013, as amended). |
| **Organic** | Organic Fibres Detected. Organic may refer to Natural or Man-Made Polymeric Fibres. Identified in accordance with AS 4964-2004. |
| **PCM** | Phase Contrast Microscopy. As used for Fibre Counting according to the MFM. |
| **PLM** | Polarised Light Microscopy. As used for Fibre Identification and Trace Analysis according to AS 4964-2004. |
| **SMF** | Synthetic Mineral Fibre Detected. SMF may also refer to Man Made Vitreous Fibres. Identified in accordance with AS 4964-2004. |
| **SRA** | Sample Receipt Advice. |
| **Trace Analysis** | Analytical procedure used to detect the presence of respirable fibres (particularly asbestos) in a given sample matrix. |
| **UK HSE HSG** | United Kingdom, Health and Safety Executive, Health and Safety Guidance, publication. |
| **UMF** | Unidentified Mineral Fibre Detected. Fibrous minerals that are detected but have not been unequivocally identified by PLM with DS according the AS 4964-2004. May include (but not limited to) Actinolite, Anthophyllite or Tremolite asbestos. |
| **WA DOH** | Reference document for the NEPM. Government of Western Australia, *Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia* (updated 2021), including Appendix Four: *Laboratory analysis* |
| **Weighted Average** | Combined average % w/w asbestos content of all asbestos-containing finds in the given aliquot or total soil sample (**$\%_{WA}$**). |

## Comments

### Sample Integrity

| | |
|---|---|
| Custody Seals Intact (if used) | N/A |
| Attempt to Chill was evident | N/A |
| Sample correctly preserved | Yes |
| Appropriate sample containers have been used | Yes |
| Sample containers for volatile analysis received with minimal headspace | Yes |
| Samples received within HoldingTime | Yes |
| Some samples have been subcontracted | No |

### Asbestos Counter/Identifier:

| | |
|---|---|
| Hiren Patel | Senior Analyst-Asbestos |

### Authorised by:

| | |
|---|---|
| Zoe Burke | Senior Analyst-Asbestos |

**Glenn Jackson**
**General Manager**

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

# APPENDIX B

Airborne Asbestos Monitoring Report

SLR Consulting Australia Pty Ltd
ABN 29 001 584 612
http://www.slrconsulting.com

Sydney Office
Tenancy 202, Submarine School
Sub-Base Platypus, 120 High Street
North Sydney NSW 2060
+61 2 9427 8100

**NATA ACCREDITED LABORATORY NUMBER:3130**

Accredited for compliance with ISO/IEC 17025- Testing. This report cannot be reproduced except in full.

# Asbestos Air Monitoring Report

**Test method in accordance with NOHSC:3003(2005) AP-01.03, AP-02.01, 02.03, 02.04 & AP-03**

**Reference:** 640.30578.00100-R002-v1.0-AMR
**Date of Analysis:** 30 November 2022
**Date of Issue:** 30 November 2022
**Removal Contractor:** N/A
**Site Address:** Melbourne Innovation Centre, 2 Wingrove Street, Alphington VIC 3078

**Client:** Darebin City Council
**Client Address:**
274 Gower Street
Preston 3072
**Field Lab Address:** N/A

| Date of Test | Sample Code | Type of Mon | Mon Loc'n | Airflow (L/min) | | | Time | | Total (min) | Count | | Conc'n (fibres/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | On | Off | Avg | On | Off | | Fields | Fibres | |
| 24/11/2022 | **Blank** | N/A | 0 | N/A | N/A | N/A | N/A | N/A | N/A | 100 | 0.0 | N/A |
| 24/11/2022 | V-00074-6 | Background | 1 | 2.0 | 2.0 | 2.0 | 19:00 | 22:30 | 210 | 100 | 2.0 | <0.01 |
| 24/11/2022 | V-00074-7 | Background | 2 | 3.0 | 3.0 | 3.0 | 20:35 | 23:51 | 196 | 100 | 2.0 | <0.01 |

**Monitoring Locations**

0 Blank
1 Building 3A-3D - Ground Level - Garage - East Wall
2 Building 3A-3D - Ground Level - Spray Booth - North Wall

**Notes:**

1) The results contained within this report relate only to the samples tested.
2) The report and/or information produced by SLR Consulting Australia Pty Ltd should not be reproduced and/or presented/reviewed except in full.
3) Mon = Monitoring; Loc'n = Location; Conc'n = Concentration.

Sampling Undertaken By: Krishna Kadali
Approved Fibre Counter: Krishna Kadali
Approved Fibre Signatory: James Bracken

SLR Consulting Australia Pty Ltd
ABN 29 001 584 612
http://www.slrconsulting.com

Sydney Office
Tenancy 202, Submarine School
Sub-Base Platypus, 120 High Street
North Sydney NSW 2060
+61 2 9427 8100

**NATA ACCREDITED LABORATORY NUMBER:3130**

Accredited for compliance with ISO/IEC 17025- Testing. This report cannot be reproduced except in full.

# Asbestos Air Monitoring Report

**Test method in accordance with NOHSC:3003(2005) AP-01.03, AP-02.01, 02.03, 02.04 & AP-03**

**Reference:** 640.30578.00100-R003-v1.0-AMR
**Date of Analysis:** 30 November 2022
**Date of Issue:** 30 November 2022
**Removal Contractor:** N/A
**Site Address:** Melbourne Innovation Centre, 2 Wingrove Street, Alphington VIC 3078

**Client:** Darebin City Council
**Client Address:**
274 Gower Street
Preston 3072
**Field Lab Address:** N/A

| Date of Test | Sample Code | Type of Mon | Mon Loc'n | Airflow (L/min) | | | Time | | Total (min) | Count | | Conc'n (fibres/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | On | Off | Avg | On | Off | | Fields | Fibres | |
| 27/11/2022 | **Blank** | N/A | 0 | N/A | N/A | N/A | N/A | N/A | N/A | 100 | 0.0 | N/A |
| 27/11/2022 | V-00074-8 | Background | 1 | 2.0 | 2.0 | 2.0 | 17:49 | 22:00 | 251 | 100 | 1.0 | <0.01 |
| 27/11/2022 | V-00074-9 | Background | 2 | 2.0 | 2.0 | 2.0 | 17:51 | 22:01 | 250 | 100 | 1.0 | <0.01 |

**Monitoring Locations**
0 Blank
1 Building 3A-3D - Brewery - Cupboard - South
2 Building 3A-3D - Brewery - Shelf - West

**Notes:**
1) The results contained within this report relate only to the samples tested.
2) The report and/or information produced by SLR Consulting Australia Pty Ltd should not be reproduced and/or presented/reviewed except in full.
3) Mon = Monitoring; Loc'n = Location; Conc'n = Concentration.

Sampling Undertaken By: Krishna Kadali
Approved Fibre Counter: Krishna Kadali
Approved Fibre Signatory: James Bracken

SLR Consulting Australia Pty Ltd
ABN 29 001 584 612
http://www.slrconsulting.com

Sydney Office
Tenancy 202, Submarine School
Sub-Base Platypus, 120 High Street
North Sydney NSW 2060
+61 2 9427 8100

**NATA ACCREDITED LABORATORY NUMBER:3130**

Accredited for compliance with ISO/IEC 17025- Testing. This report cannot be reproduced except in full.

# Asbestos Air Monitoring Report

**Test method in accordance with NOHSC:3003(2005) AP-01.03, AP-02.01, 02.03, 02.04 & AP-03**

**Reference:** 640.30578.00100-R001-v1.0-AMR
**Date of Analysis:** 25 November 2022
**Date of Issue:** 02 December 2022
**Removal Contractor:** N/A
**Site Address:** Melbourne Innovation Centre, 2 Wingrove Street, Alphington VIC 3078

**Client:** Darebin City Council
**Client Address:**
274 Gower Street
Preston 3072
**Field Lab Address:** N/A

| Date of Test | Sample Code | Type of Mon | Mon Loc'n | Airflow (L/min) | | | Time | | Total (min) | Count | | Conc'n (fibres/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | On | Off | Avg | On | Off | | Fields | Fibres | |
| 23/11/2022 | **Blank** | N/A | 0 | N/A | N/A | N/A | N/A | N/A | N/A | 100 | 0.0 | N/A |
| 23/11/2022 | V-00074-1 | Background | 1 | 1.0 | 1.0 | 1.0 | 09:27 | 16:50 | 443 | 100 | 1.0 | <0.01 |
| 23/11/2022 | V-00074-2 | Background | 2 | 1.0 | 1.0 | 1.0 | 09:29 | 16:52 | 443 | 100 | 1.0 | <0.01 |
| 23/11/2022 | V-00074-3 | Background | 3 | 1.0 | 1.0 | 1.0 | 09:31 | 16:54 | 443 | 100 | 1.0 | <0.01 |
| 23/11/2022 | V-00074-4 | Background | 4 | 2.0 | 2.0 | 2.0 | 14:35 | 18:40 | 245 | 100 | 2.0 | <0.01 |
| 23/11/2022 | V-00074-5 | Background | 5 | 2.0 | 2.0 | 2.0 | 14:37 | 18:39 | 242 | 100 | 3.0 | <0.01 |

**Monitoring Locations**

0 Blank
1 Building 2A - Ground Level - Workshop - West Wall
2 Building 2A - Ground Level -?Workshop - Northwall
3 Building 2A - Ground Level - Kitchen - East Wall
4 Building 3A-3D - Mezzanine Level - Ladies Toilet-Central
5 Building 3A-3D - Mezzanine Level - Kitchen - Central

**Notes:**

1) The results contained within this report relate only to the samples tested.
2) The report and/or information produced by SLR Consulting Australia Pty Ltd should not be reproduced and/or presented/reviewed except in full.
3) Mon = Monitoring; Loc'n = Location; Conc'n = Concentration.

Sampling Undertaken By: Krishna Kadali
Approved Fibre Counter: Krishna Kadali
Approved Fibre Signatory: James Bracken

SLR Consulting Australia Pty Ltd
ABN 29 001 584 612
http://www.slrconsulting.com

Sydney Office
Tenancy 202, Submarine School
Sub-Base Platypus, 120 High Street
North Sydney NSW 2060
+61 2 9427 8100

**NATA ACCREDITED LABORATORY NUMBER:3130**

Accredited for compliance with ISO/IEC 17025- Testing. This report cannot be reproduced except in full.

# Asbestos Air Monitoring Report

**Test method in accordance with NOHSC:3003(2005) AP-01.03, AP-02.01, 02.03, 02.04 & AP-03**

**Reference:** 640.30578.00300-R005-v1.0-AMR
**Date of Analysis:** 01 December 2022
**Date of Issue:** 01 December 2022
**Removal Contractor:** N/A
**Site Address:** Melbourne Innovation Centre, 2 Wingrove Street, Alphington VIC 3078

**Client:** Darebin City Council
**Client Address:**
274 Gower Street
Preston 3072
**Field Lab Address:** N/A

| Date of Test | Sample Code | Type of Mon | Mon Loc'n | Airflow (L/min) | | | Time | | Total (min) | Count | | Conc'n (fibres/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | On | Off | Avg | On | Off | | Fields | Fibres | |
| 30/11/2022 | **Blank** | N/A | 0 | N/A | N/A | N/A | N/A | N/A | N/A | 100 | 0.0 | N/A |
| 30/11/2022 | V-00075-30 | Background | 1 | 1.0 | 1.0 | 1.0 | 08:46 | 18:40 | 594 | 100 | 0.0 | <0.01 |
| 30/11/2022 | V-00075-31 | Background | 2 | 1.0 | 1.0 | 1.0 | 09:06 | 18:41 | 575 | 100 | 0.0 | <0.01 |
| 30/11/2022 | V-00075-32 | Background | 3 | 1.0 | 1.0 | 1.0 | 09:07 | 18:43 | 576 | 100 | 0.0 | <0.01 |
| 30/11/2022 | V-00075-33 | Background | 4 | 1.0 | 1.0 | 1.0 | 09:09 | 18:44 | 575 | 100 | 0.0 | <0.01 |
| 30/11/2022 | V-00075-34 | Background | 5 | 1.0 | 1.0 | 1.0 | 09:13 | 18:50 | 577 | 100 | 1.0 | <0.01 |
| 30/11/2022 | V-00075-35 | Background | 6 | 1.0 | 1.0 | 1.0 | 09:16 | 18:54 | 578 | 100 | 1.0 | <0.01 |
| 30/11/2022 | V-00075-36 | Background | 7 | 1.0 | 1.0 | 1.0 | 09:18 | 18:55 | 577 | 100 | 0.0 | <0.01 |
| 30/11/2022 | V-00075-37 | Background | 8 | 1.0 | 1.0 | 1.0 | 09:19 | 18:57 | 578 | 100 | 0.0 | <0.01 |

**Monitoring Locations**

0 Blank
1 South Boundary - Adjacent Entrance Gate
2 South Boundary - Adjacent Railway Line
3 South Side - Adjacent Building 2A
4 East Boundary - Adjacent Building 3
5 West Side - Adjacent Building 3
6 Northwest Boundary - Adjacent Yarana Road
7 Southwest Boundary - Adjacent Yarana Road
8 South Boundary - Adjacent Wingrove Street

**Notes:**

1) The results contained within this report relate only to the samples tested.
2) The report and/or information produced by SLR Consulting Australia Pty Ltd should not be reproduced and/or presented/reviewed except in full.
3) Mon = Monitoring; Loc'n = Location; Conc'n = Concentration.

Sampling Undertaken By: James Bracken
Approved Fibre Counter: Krishna Kadali
Approved Fibre Signatory: James Bracken

SLR Consulting Australia Pty Ltd
ABN 29 001 584 612
http://www.slrconsulting.com

Sydney Office
Tenancy 202, Submarine School
Sub-Base Platypus, 120 High Street
North Sydney NSW 2060
+61 2 9427 8100

**NATA ACCREDITED LABORATORY NUMBER:3130**

Accredited for compliance with ISO/IEC 17025- Testing. This report cannot be reproduced except in full.

# Asbestos Air Monitoring Report

**Test method in accordance with NOHSC:3003(2005) AP-01.03, AP-02.01, 02.03, 02.04 & AP-03**

**Reference:** 640.30578.00300-R004-v1.0-AMR
**Date of Analysis:** 30 November 2022
**Date of Issue:** 30 November 2022
**Removal Contractor:** N/A
**Site Address:** Melbourne Innovation Centre, 2 Wingrove Street, Alphington VIC 3078

**Client:** Darebin City Council
**Client Address:**
274 Gower Street
Preston 3072
**Field Lab Address:** N/A

| Date of Test | Sample Code | Type of Mon | Mon Loc'n | Airflow (L/min) | | | Time | | Total (min) | Count | | Conc'n (fibres/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | On | Off | Avg | On | Off | | Fields | Fibres | |
| 29/11/2022 | **Blank** | N/A | 0 | N/A | N/A | N/A | N/A | N/A | N/A | 100 | 0.0 | N/A |
| 29/11/2022 | V-00075-23 | Background | 1 | 1.0 | 1.0 | 1.0 | 08:53 | 15:53 | 420 | 100 | 0.0 | <0.01 |
| 29/11/2022 | V-00075-24 | Background | 2 | 1.0 | 1.0 | 1.0 | 08:55 | 15:55 | 420 | 100 | 0.0 | <0.01 |
| 29/11/2022 | V-00075-25 | Background | 3 | 1.0 | 1.0 | 1.0 | 08:57 | 15:57 | 420 | 100 | 0.0 | <0.01 |
| 29/11/2022 | V-00075-26 | Background | 4 | 1.0 | 1.0 | 1.0 | 08:59 | 15:58 | 419 | 100 | 1.0 | <0.01 |
| 29/11/2022 | V-00075-27 | Background | 5 | 1.0 | 1.0 | 1.0 | 09:02 | 16:01 | 419 | 100 | 0.0 | <0.01 |
| 29/11/2022 | V-00075-28 | Background | 6 | 1.0 | 1.0 | 1.0 | 09:04 | 16:03 | 419 | 100 | 4.0 | <0.01 |
| 29/11/2022 | V-00075-29 | Background | 7 | 1.0 | 1.0 | 1.0 | 09:06 | 16:05 | 419 | 100 | 0.0 | <0.01 |

**Monitoring Locations**

0 Blank
1 South Boundary - Adjacent Entrance Gate
2 South Boundary - Adjacent Railway Line
3 South Side - Adjacent Building 2A
4 East Boundary - Adjacent Building 3
5 West Side - Adjacent Building 3
6 Southwest Boundary - Adjacent Yarana Road
7 South Boundary - Adjacent Wingrove Street

**Notes:**

1) The results contained within this report relate only to the samples tested.
2) The report and/or information produced by SLR Consulting Australia Pty Ltd should not be reproduced and/or presented/reviewed except in full.
3) Mon = Monitoring; Loc'n = Location; Conc'n = Concentration.

Sampling Undertaken By: Krishna Kadali
Approved Fibre Counter: Krishna Kadali
Approved Fibre Signatory: James Bracken

SLR Consulting Australia Pty Ltd
ABN 29 001 584 612
http://www.slrconsulting.com

Sydney Office
Tenancy 202, Submarine School
Sub-Base Platypus, 120 High Street
North Sydney NSW 2060
+61 2 9427 8100

**NATA ACCREDITED LABORATORY NUMBER:3130**

Accredited for compliance with ISO/IEC 17025- Testing. This report cannot be reproduced except in full.

# Asbestos Air Monitoring Report

**Test method in accordance with NOHSC:3003(2005) AP-01.03, AP-02.01, 02.03, 02.04 & AP-03**

**Reference:** 640.30578.00300-R003-v1.0-AMR
**Date of Analysis:** 29 November 2022
**Date of Issue:** 29 November 2022
**Removal Contractor:** N/A
**Site Address:** Melbourne Innovation Centre, 2 Wingrove Street, Alphington VIC 3078

**Client:** Darebin City Council
**Client Address:** 274 Gower Street
Preston 3072

**Field Lab Address:** N/A

| Date of Test | Sample Code | Type of Mon | Mon Loc'n | Airflow (L/min) | | | Time | | Total (min) | Count | | Conc'n (fibres/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | On | Off | Avg | On | Off | | Fields | Fibres | |
| 28/11/2022 | **Blank** | N/A | 0 | N/A | N/A | N/A | N/A | N/A | N/A | 100 | 0.0 | N/A |
| 28/11/2022 | V-00075-17 | Background | 1 | 1.0 | 1.0 | 1.0 | 09:49 | 16:29 | 400 | 100 | 0.0 | <0.01 |
| 28/11/2022 | V-00075-18 | Background | 2 | 1.0 | 1.0 | 1.0 | 09:51 | 16:31 | 400 | 100 | 0.0 | <0.01 |
| 28/11/2022 | V-00075-19 | Background | 3 | 1.0 | 1.0 | 1.0 | 09:54 | 16:34 | 400 | 100 | 1.0 | <0.01 |
| 28/11/2022 | V-00075-20 | Background | 4 | 1.0 | 1.0 | 1.0 | 09:57 | 16:37 | 400 | 100 | 1.0 | <0.01 |
| 28/11/2022 | V-00075-21 | Background | 5 | 1.0 | 1.0 | 1.0 | 10:00 | 16:40 | 400 | 100 | 1.0 | <0.01 |
| 28/11/2022 | V-00075-22 | Background | 6 | 1.0 | 1.0 | 1.0 | 10:04 | 16:44 | 400 | 100 | 2.0 | <0.01 |

**Monitoring Locations**

0 Blank
1 South Boundary - Adjacent Entrance Gate
2 South Boundary - Adjacent Railway Line
3 South Side - Adjacent Building 2A
4 East Boundary - Adjacent Building 3
5 West Side - Adjacent Building 3
6 South Boundary - Adjacent Wingrove Street

**Notes:**

1) The results contained within this report relate only to the samples tested.
2) The report and/or information produced by SLR Consulting Australia Pty Ltd should not be reproduced and/or presented/reviewed except in full.
3) Mon = Monitoring; Loc'n = Location; Conc'n = Concentration.

Sampling Undertaken By: Krishna Kadali
Approved Fibre Counter: Krishna Kadali
Approved Fibre Signatory: Adam Bergman

SLR Consulting Australia Pty Ltd
ABN 29 001 584 612
http://www.slrconsulting.com

Sydney Office
Tenancy 202, Submarine School
Sub-Base Platypus, 120 High Street
North Sydney NSW 2060
+61 2 9427 8100

**NATA ACCREDITED LABORATORY NUMBER:3130**

Accredited for compliance with ISO/IEC 17025- Testing. This report cannot be reproduced except in full.

# Asbestos Air Monitoring Report

**Test method in accordance with NOHSC:3003(2005) AP-01.03, AP-02.01, 02.03, 02.04 & AP-03**

**Reference:** 640.30578.00300-R002-v1.0-AMR
**Date of Analysis:** 28 November 2022
**Date of Issue:** 29 November 2022
**Removal Contractor:** N/A
**Site Address:** Melbourne Innovation Centre, 2 Wingrove Street, Alphington VIC 3078

**Client:** Darebin City Council
**Client Address:**
274 Gower Street
Preston 3072
**Field Lab Address:** N/A

| Date of Test | Sample Code | Type of Mon | Mon Loc'n | Airflow (L/min) | | | Time | | Total (min) | Count | | Conc'n (fibres/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | On | Off | Avg | On | Off | | Fields | Fibres | |
| 27/11/2022 | **Blank** | N/A | 0 | N/A | N/A | N/A | N/A | N/A | N/A | 100 | 0.0 | N/A |
| 27/11/2022 | V-00075-9 | Background | 1 | 1.0 | 1.0 | 1.0 | 09:07 | 16:36 | 449 | 100 | 0.0 | <0.01 |
| 27/11/2022 | V-00075-10 | Background | 2 | 1.0 | 1.0 | 1.0 | 09:10 | 16:38 | 448 | 100 | 1.0 | <0.01 |
| 27/11/2022 | V-00075-11 | Background | 3 | 1.0 | 1.0 | 1.0 | 09:12 | 16:39 | 447 | 100 | 0.0 | <0.01 |
| 27/11/2022 | V-00075-12 | Background | 4 | 1.0 | 1.0 | 1.0 | 09:14 | 16:46 | 452 | 100 | 0.0 | <0.01 |
| 27/11/2022 | V-00075-13 | Background | 5 | 1.0 | 1.0 | 1.0 | 09:21 | 16:52 | 451 | 100 | 0.0 | <0.01 |
| 27/11/2022 | V-00075-14 | Background | 6 | 1.0 | 1.0 | 1.0 | 09:24 | 16:54 | 450 | 100 | 1.0 | <0.01 |
| 27/11/2022 | V-00075-15 | Background | 7 | 1.0 | 1.0 | 1.0 | 09:26 | 16:55 | 449 | 100 | 2.0 | <0.01 |
| 27/11/2022 | V-00075-16 | Background | 8 | 1.0 | 1.0 | 1.0 | 09:31 | 17:00 | 449 | 100 | 1.0 | <0.01 |

**Monitoring Locations**

0 Blank
1 South Boundary - Adjacent Entrance Gate
2 South Boundary - Adjacent Railway Line
3 South Side - Adjacent Building 2A
4 East Boundary - Adjacent Building 3
5 West Side - Adjacent Building 3
6 Northwest Boundary - Adjacent Yarana Road
7 Southwest Boundary - Adjacent Yarana Road
8 South Boundary - Adjacent Wingrove Street

**Notes:**

1) The results contained within this report relate only to the samples tested.
2) The report and/or information produced by SLR Consulting Australia Pty Ltd should not be reproduced and/or presented/reviewed except in full.
3) Mon = Monitoring; Loc'n = Location; Conc'n = Concentration.

Sampling Undertaken By: James Bracken
Approved Fibre Counter: Krishna Kadali
Approved Fibre Signatory: Adam Bergman

SLR Consulting Australia Pty Ltd
ABN 29 001 584 612
http://www.slrconsulting.com

Sydney Office
Tenancy 202, Submarine School
Sub-Base Platypus, 120 High Street
North Sydney NSW 2060
+61 2 9427 8100

**NATA ACCREDITED LABORATORY NUMBER:3130**

Accredited for compliance with ISO/IEC 17025- Testing. This report cannot be reproduced except in full.

# Asbestos Air Monitoring Report

**Test method in accordance with NOHSC:3003(2005) AP-01.03, AP-02.01, 02.03, 02.04 & AP-03**

**Reference:** 640.30578.00300-R001-v1.0-AMR
**Date of Analysis:** 28 November 2022
**Date of Issue:** 29 November 2022
**Removal Contractor:** N/A
**Site Address:** Melbourne Innovation Centre, 2 Wingrove Street, Alphington VIC 3078

**Client:** Darebin City Council
**Client Address:**
274 Gower Street
Preston 3072
**Field Lab Address:** N/A

| Date of Test | Sample Code | Type of Mon | Mon Loc'n | Airflow (L/min) | | | Time | | Total (min) | Count | | Conc'n (fibres/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | On | Off | Avg | On | Off | | Fields | Fibres | |
| 26/11/2022 | **Blank** | N/A | 0 | N/A | N/A | N/A | N/A | N/A | N/A | 100 | 0.0 | N/A |
| 26/11/2022 | V-00075-1 | Background | 1 | 1.0 | 1.0 | 1.0 | 07:30 | 14:40 | 430 | 100 | 1.0 | <0.01 |
| 26/11/2022 | V-00075-2 | Background | 2 | 1.0 | 1.0 | 1.0 | 07:33 | 14:41 | 428 | 100 | 0.0 | <0.01 |
| 26/11/2022 | V-00075-3 | Background | 3 | 1.0 | 1.0 | 1.0 | 07:34 | 14:42 | 428 | 100 | 0.0 | <0.01 |
| 26/11/2022 | V-00075-4 | Background | 4 | 1.0 | 1.0 | 1.0 | 07:36 | 14:44 | 428 | 100 | 0.0 | <0.01 |
| 26/11/2022 | V-00075-5 | Background | 5 | 1.0 | 1.0 | 1.0 | 07:38 | 14:45 | 427 | 100 | 0.0 | <0.01 |
| 26/11/2022 | V-00075-6 | Background | 6 | 1.0 | 1.0 | 1.0 | 07:42 | 14:46 | 424 | 100 | 0.0 | <0.01 |
| 26/11/2022 | V-00075-7 | Background | 7 | 1.0 | 1.0 | 1.0 | 07:45 | 14:50 | 425 | 100 | 0.0 | <0.01 |
| 26/11/2022 | V-00075-8 | Background | 8 | 1.0 | 1.0 | 1.0 | 07:48 | 14:52 | 424 | 100 | 1.0 | <0.01 |

**Monitoring Locations**

0 Blank
1 South Boundary - Adjacent Entrance Gate
2 South Boundary - Adjacent Railway Line
3 South Side - Adjacent Building 2A
4 East Boundary - Adjacent Building 3
5 West Side - Adjacent Building 3
6 Northwest Boundary - Adjacent Yarana Road
7 Southwest Boundary - Adjacent Yarana Road
8 South Boundary - Adjacent Wingrove Street

**Notes:**

1) The results contained within this report relate only to the samples tested.
2) The report and/or information produced by SLR Consulting Australia Pty Ltd should not be reproduced and/or presented/reviewed except in full.
3) Mon = Monitoring; Loc'n = Location; Conc'n = Concentration.

Sampling Undertaken By: Krishna Kadali
Approved Fibre Counter: Krishna Kadali
Approved Fibre Signatory: Adam Bergman

# APPENDIX C

Photographs

**Photo 1: Sample 11-917**


**Photo 2: Sample 11-918**

**Photo 3: Sample 11-919**


**Photo 4: Sample 11-920**

**Photo 5: Sample 11-921**


**Photo 6: Sample 11-922**

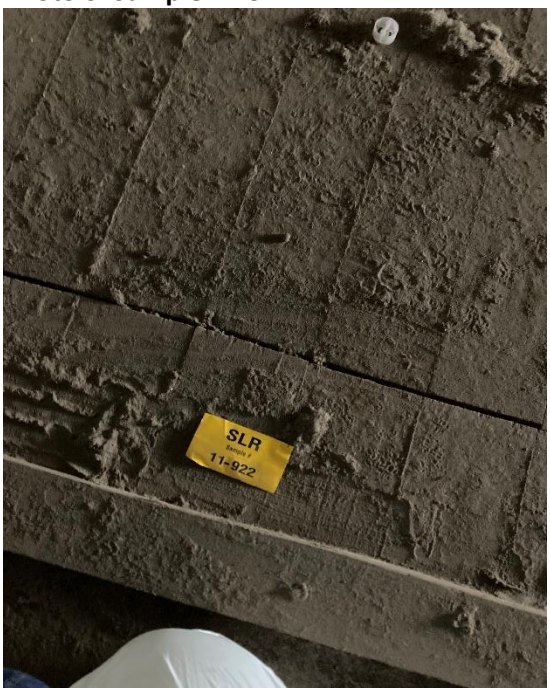



**Photo 7: Sample 11-924**


**Photo 8: Sample 11-925**

**Photo 9: Sample 11-926**

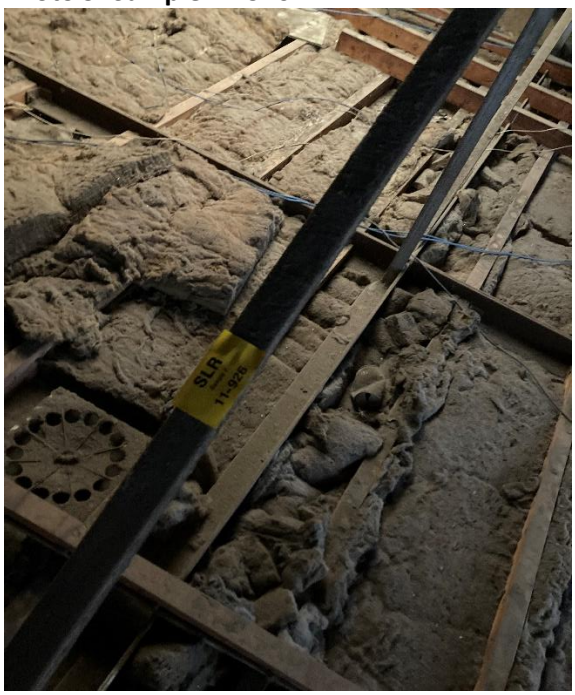



**Photo 10: Sample 11-931**

**Photo 11: Sample 11-932**


**Photo 12: Sample 11-934**

**Photo 13: Sample 11-938**


**Photo 14: Sample 11-946**


**Photo 15: Sample 11-947**

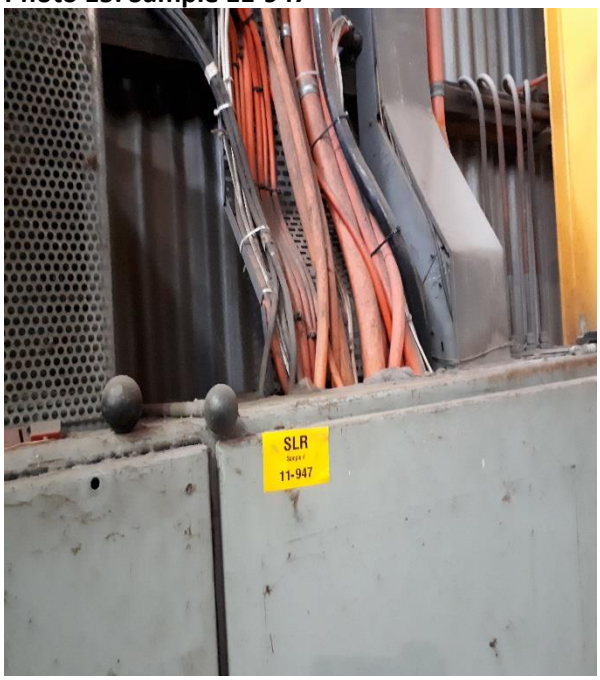



**Photo 16: Sample 11-950**

**Photo 17: Sample 11-952**

**Photo 18: Sample 11-959**

**Photo 19: Sample 11-961**


**Photo 20: Sample 11-965**

**Photo 21: Sample 12-113**


**Photo 22: Sample 12-114**


**Photo 23: Sample 12-115**


**Photo 24: Sample 12-116**

**Photo 25: Sample 12-117**


**Photo 26: Sample 12-119**


**Photo 27: Sample 12-123**


**Photo 28: Sample 12-124**

**Photo 29: Sample 12-127**


**Photo 30: Sample 12-128**


**Photo 31: Sample 12-144**


**Photo 32: Sample 12-159**

**Photo 33: Sample 12-132**

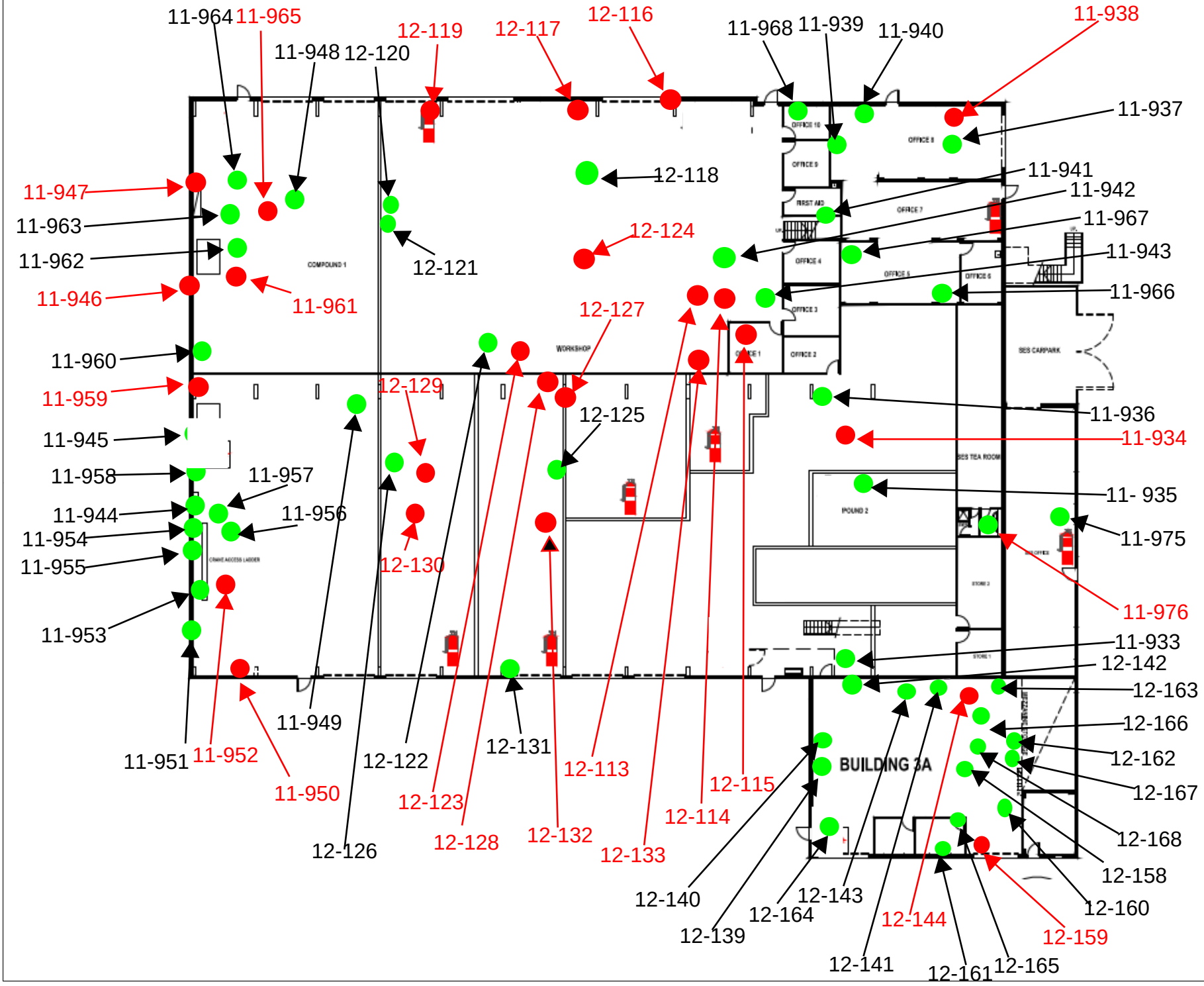

**Photo 34: Sample 12-133**


**Photo 35: Sample 12-144**


**Photo 36: Sample 12-159**

# APPENDIX D

Sample Locations




Melbourne Innovation Centre
Building 3, 2 Wingrove Street,
Alphington Victoria 3078

Dust Sampling

FIGURE 1

| | |
|---|---|
| Project Number: | 640.30578.00300 |
| Date: | November 2022 |
| Drawn by: | Krishna Kadali |
| Version | V01 |
| Client: | Darebin Council |
| Floor Level: | Ground Level |
| Address: | |

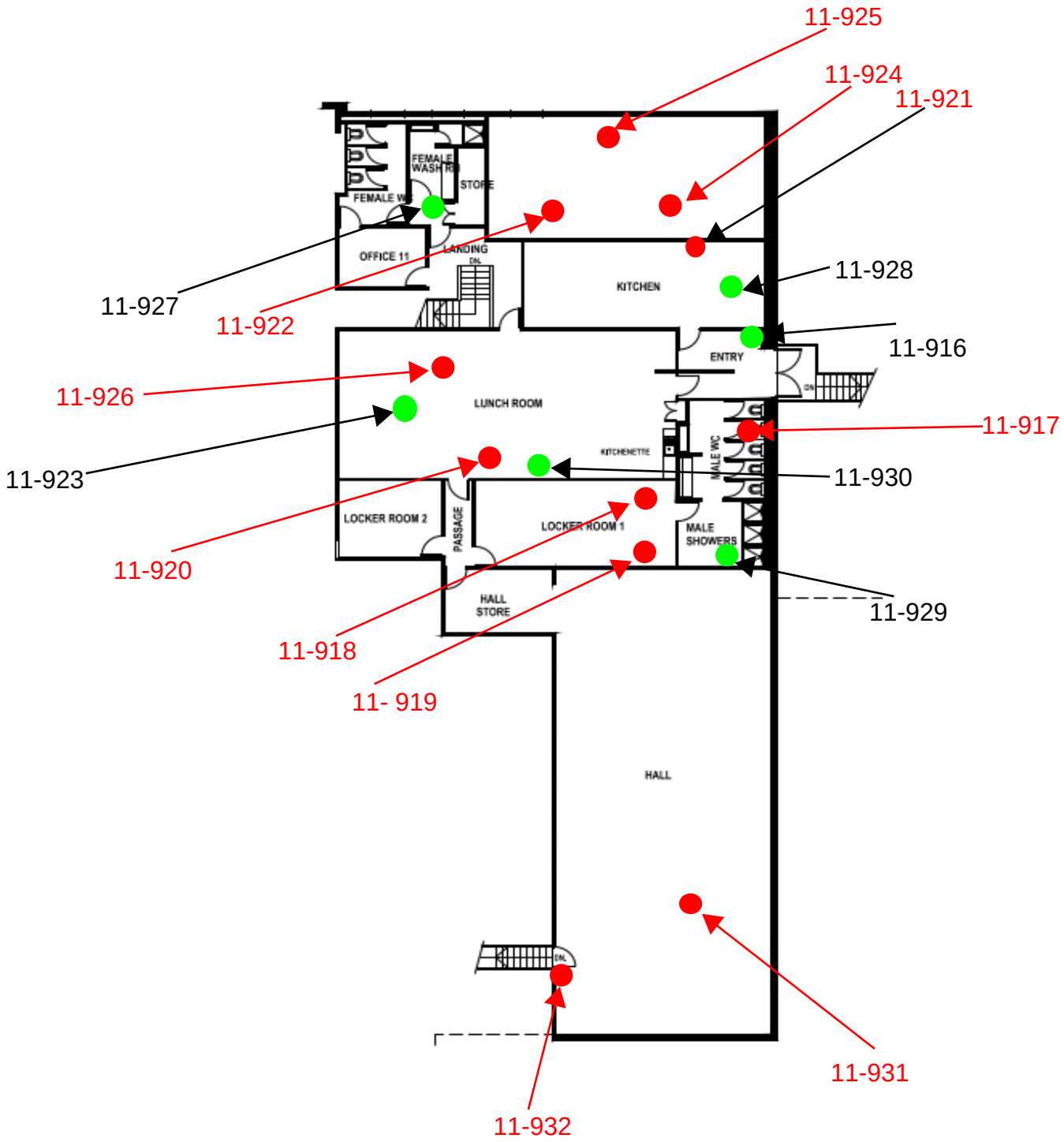
LEGEND

- Positive Sample Location
- Negative Sample Location

N

Note: Drawing not to scale

SLR




Melbourne Innovation Centre
Building 3, 2 Wingrove Street,
Alphington Victoria 3078

Dust Sampling

FIGURE 1

| | |
|---|---|
| Project Number: | 640.30578.00300 |
| Date: | November 2022 |
| Drawn by: | Krishna Kadali |
| Version | V01 |
| Client: | Darebin Council |
| Floor Level: | Mezzanine Level |
| Address: | |

LEGEND

- Positive Sample Location
- Negative Sample Location

N

Note: Drawing not to scale

SLR