

# Asbestos Air Monitoring Report



11 May 2023

**Randwick City Council**  
30 Frances Street  
Randwick NSW 2031

Attention: Ryan Zammit  
ryan.zammit@randwick.nsw.gov.au

## RE: Asbestos Air Monitoring Report

Dear Ryan Zammit

Please find below Asbestos air monitoring report for:

<b>Site:</b>	Little Bay Beach
<b>Location:</b>	Background air monitoring

All works have been completed in accordance with relevant state WHS Legislation and approved Codes of Practices.

See following pages for results.

Regards,

A handwritten signature in blue ink, appearing to read "Alex Tam".

**Alex Tam**  
*Licensed Asbestos Assessor 001241*  
Senior Occupational Hygienist  
11/05/2023

# Asbestos Air Monitoring Report



<b>Requested by:</b>	
Client Contact Name	Ryan Zammit
Client Contact Number	90936744
Client Contact Email	ryan.zammit@randwick.nsw.gov.au
<b>Site:</b>	
Address	2 Coast Hospital Rd, Little Bay NSW 2036
Local Government Area	Randwick City Council
Site Boundary	
Air Monitoring Locations	



<b>Air Monitoring Details:</b>	
Date of Field Work:	11/05/2023
Start Time:	11:30
Trinitas Consultant:	Alex Tam Senior Occupational Hygienist
Sampling Type:	Asbestos
Temperature	19°C

# Asbestos Air Monitoring Report



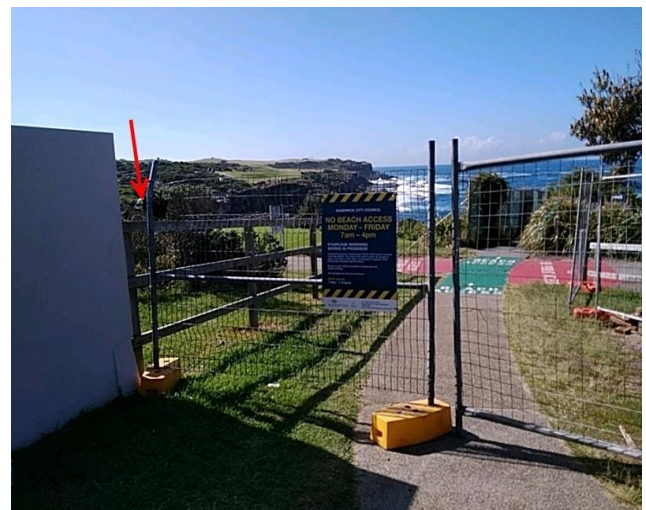
Wind Speed	20km/h						
Scope of Work:	Background air monitoring						
<b>Methodology:</b>							
Asbestos fibre static air monitoring and analysis was conducted in accordance with Guidance Note on the Membrane Filter Method for the Estimation of Airborne Asbestos Fibres (NOHSC:3003: April 2005) and in-house procedures of NATA accredited laboratory for the estimation of airborne fibres.							
The sample collection was performed using SKC portable sampling pumps fitted with sampling cassettes containing 25 mm membrane filters that were flow tested at the commencement and completion of sampling.							
<b>Exposure Standard</b>							
The Australian exposure standard for asbestos fibers is 0.1 fibres/ml of air and the action limit for asbestos fibres is 0.01 fibres/ml as per the NSW WHS Regulations 2017.							
Sample Location / Person Name	AM Type	Sample ID	Average Flow Rate (L/Min)	Time On	Total Sampling Time (Min)	Total Volume (L)	Results
Exclusion zone (Southern end)	B	DH645033	4.0	11:30	133	532.00	<0.01 f/ml
Exclusion zone (Northern end)	B	DH061916	4.0	11:34	132	528.00	<0.01 f/ml
Field Blank	BI	DH061887					0 fibres / 100 fields
<b>AM Type Legend</b>							
B= Background    Co= Control    CI = Clearance    BI= Field Blank    Pe= Personal							
<b>Comments/Recommendations:</b>							
All air monitoring results were below the exposure standard for asbestos fibers during removal works <0.01 f/ml NATA accredited laboratory results are provided within <b>Appendix 2</b> .							
<b>Disclaimer:</b>							
The results within this report relate only to the sampling locations specified and their analysis. This report shall not be reproduced, except in full.							
<b>Prepared By</b>				<b>Approved By</b>			
 <b>Alex Tam</b> Licensed Asbestos Assessor 001241 Senior Occupational Hygienist 11/05/2023				 <b>Denny Bolatti</b> Principal Occupational Hygienist Licensed Asbestos Assessor 001132 12/05/2023			



## Appendix 1: Air Monitoring Locations



**Location:** Exclusion zone (Southern end)  
**Result:** <0.01 f/ml  
**Image Id:** 230511-113809



**Location:** Exclusion zone (Northern end)  
**Result:** <0.01 f/ml  
**Image Id:** 230511-113922



**Location:** Field Blank  
**Result:** 0 fibres / 100 fields  
**Image Id:** 230511-143237

# Asbestos Air Monitoring Report



## How to Contact Us

Mail Trinitas Group  
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Website [www.trinitasgroup.com.au](http://www.trinitasgroup.com.au)

Telephone 1800 4 TRINITAS

Facsimile 02 8016 0875

## Trinitas Group Pty Ltd

ABN 12 161 759 708

Disclaimer: This report is prepared for the use of the recipient for the purpose of risk evaluation, risk improvement and or loss control. It is based upon prevailing conditions at the time of inspection, our observations and information provided by the client contact/s at the site. No responsibility is accepted, and liability disclaimed for the use of this report for any other purpose, or by any third party, nor does it imply that no other hazardous



# Asbestos Air Monitoring Report



## Appendix 2: Laboratory Analysis Results



Supplier on scheme  
Performance and Management Services



**Trinitas Group Pty Ltd**  
**Level 3, 24 Hunter Street**  
**Parramatta**  
**NSW 2150**



**NATA Accredited**  
**Accreditation Number 1261**  
**Site Number 18217**

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:** - RESULTS/SRAs  
**Report** 988657-AFA  
**Project Name** LITTLE BAY BEACH  
**Received Date** May 11, 2023  
**Date Reported** May 12, 2023

**METHODOLOGY:**

Asbestos Counting Conducted in accordance with the National Occupational Health & Safety Commission -  
Guidance Note on The Membrane Filter Method For Estimating Airborne Asbestos  
Fibres 2nd Edition [NOHSC:3003(2005)] and in-house Method LTM-ASB-8010.

**Project Name** LITTLE BAY BEACH  
**Project ID**  
**Date Sampled** May 11, 2023  
**Report** 988657-AFA

Eurofins Sample No.	Client Sample ID	Location	Fibres/100 fields
23-My0027810	DH061887	BLANK	0/100
23-My0027811	DH061916	EXCLUSION ZONE (NORTHERN END)	0/100
23-My0027812	DH645033	EXCLUSION ZONE (SOUTHERN END)	0/100



**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.

<b>Description</b>	<b>Testing Site</b>	<b>Extracted</b>	<b>Holding Time</b>
Asbestos - LTM-ASB-8010	Sydney	May 11, 2023	Indefinite

<b>Company Name:</b>	Trinitas Group Pty Ltd	<b>Order No.:</b>		<b>Received:</b>	May 11, 2023 4:34 PM
<b>Address:</b>	Level 3, 24 Hunter Street Parramatta NSW 2150	<b>Report #:</b>	988657	<b>Due:</b>	May 12, 2023
<b>Project Name:</b>	LITTLE BAY BEACH	<b>Phone:</b>	02 8810 4445	<b>Priority:</b>	1 Day
		<b>Fax:</b>	02 8016 0875	<b>Contact Name:</b>	- RESULTS/SRAs
<b>Eurofins Analytical Services Manager : Bonnie Pu</b>					

<b>Sample Detail</b>						Asbestos (amount of fibres in air)
<b>Sydney Laboratory - NATA # 1261 Site # 18217</b>						X
<b>External Laboratory</b>						
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID	
1	DH061887	May 11, 2023		Air	S23-My0027810	X
2	DH061916	May 11, 2023	1:46PM	Air	S23-My0027811	X
3	DH645033	May 11, 2023	1:43PM	Air	S23-My0027812	X
<b>Test Counts</b>						3

## 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. 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/ffd	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:  $C = \left(\frac{A}{a}\right) \times \left(\frac{N}{n}\right) \times \left(\frac{1}{r}\right) \times \left(\frac{1}{t}\right) = K \times \left(\frac{N}{n}\right) \times \left(\frac{1}{r}\right)$

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

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

## Terms

<b>%asbestos</b>	Estimated percentage of asbestos in a given matrix. May be derived from knowledge or experience of the material, informed by HSG264 <i>Appendix 2</i> , else assumed to be 15% in accordance with WA DOH <i>Appendix 2 (PA)</i> .
<b>ACM</b>	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.
<b>AF</b>	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".
<b>AFM</b>	Airborne Fibre Monitoring, e.g. by the MFM.
<b>Amosite</b>	Amosite Asbestos Detected. Amosite may also refer to Fibrous Grunerite or Brown Asbestos. Identified in accordance with AS 4964-2004.
<b>AS</b>	Australian Standard.
<b>Asbestos Content (as asbestos)</b>	Total % w/w asbestos content in asbestos-containing finds in a soil sample (% w/w).
<b>Chrysotile</b>	Chrysotile Asbestos Detected. Chrysotile may also refer to Fibrous Serpentine or White Asbestos. Identified in accordance with AS 4964-2004.
<b>COC</b>	Chain of Custody.
<b>Crocidolite</b>	Crocidolite Asbestos Detected. Crocidolite may also refer to Fibrous Riebeckite or Blue Asbestos. Identified in accordance with AS 4964-2004.
<b>Dry</b>	Sample is dried by heating prior to analysis.
<b>DS</b>	Dispersion Staining. Technique required for Unequivocal Identification of asbestos fibres by PLM.
<b>FA</b>	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.
<b>Fibre Count</b>	Total of all fibres (whether asbestos or not) meeting the counting criteria set out in the NOHSC:3003
<b>Fibre ID</b>	Fibre Identification. Unequivocal identification of asbestos fibres according to AS 4964-2004. Includes Chrysotile, Amosite (Grunerite) or Crocidolite asbestos.
<b>Friable</b>	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.
<b>HSG248</b>	UK HSE HSG248, <i>Asbestos: The Analysts Guide</i> , 2nd Edition (2021).
<b>HSG264</b>	UK HSE HSG264, <i>Asbestos: The Survey Guide</i> (2012).
<b>ISO (also ISO/IEC)</b>	International Organization for Standardization / International Electrotechnical Commission.
<b>K Factor</b>	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).
<b>LOR</b>	Limit of Reporting.
<b>MFM (also NOHSC:3003)</b>	Membrane Filter Method. As described by the Australian Government National Occupational Health and Safety Commission, <i>Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres</i> , 2nd Edition [NOHSC:3003(2005)].
<b>NEPM (also ASC NEPM)</b>	National Environment Protection (Assessment of Site Contamination) Measure, (2013, as amended).
<b>Organic</b>	Organic Fibres Detected. Organic may refer to Natural or Man-Made Polymeric Fibres. Identified in accordance with AS 4964-2004.
<b>PCM</b>	Phase Contrast Microscopy. As used for Fibre Counting according to the MFM.
<b>PLM</b>	Polarised Light Microscopy. As used for Fibre Identification and Trace Analysis according to AS 4964-2004.
<b>Sampling</b>	Unless otherwise stated Eurofins are not responsible for sampling equipment or the sampling process.
<b>SMF</b>	Synthetic Mineral Fibre Detected. SMF may also refer to Man Made Vitreous Fibres. Identified in accordance with AS 4964-2004.
<b>SRA</b>	Sample Receipt Advice.
<b>Trace Analysis</b>	Analytical procedure used to detect the presence of respirable fibres (particularly asbestos) in a given sample matrix.
<b>UK HSE HSG</b>	United Kingdom, Health and Safety Executive, Health and Safety Guidance, publication.
<b>UMF</b>	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.
<b>WA DOH</b>	Reference document for the NEPM. Government of Western Australia, <i>Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia</i> (updated 2021), including Appendix Four: <i>Laboratory analysis</i>
<b>Weighted Average</b>	Combined average % w/w asbestos content of all asbestos-containing finds in the given aliquot or total soil sample (% <sub>WA</sub> ).

**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:**

Bennel Jiri                      Senior Analyst-Asbestos

**Authorised by:**

Sayed Abu                      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](#).

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