

20 March 2023

Randwick City Council 30 Frances Street Randwick NSW 2031

Attention: Joe Santangelo joe.santangelo@randwick.nsw.gov.au

RE: Asbestos Air Monitoring Report

Dear Joe Santangelo

Please find below Asbestos air monitoring report for:

Site:	Little Bay Beach
Location:	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,

Karim Nazemi Licensed Asbestos Assessor #001359 Senior Occupational Hygienist 20/03/2023



PAGE



Requested by:	
Client Contact Name	Joe Santangelo
Client Contact Number	0436839760
Client Contact Email	joe.santangelo@randwick.nsw.gov.au
Site:	
Address	2 Coast Hospital Rd, Little Bay NSW 2036
Local Government Area	Randwick City Council
Site Boundary	
Air Monitoring Locations	0
Coast Chapel Bay - A Nurses Coast Hospital Rd	
Air Monitoring Details:	
Date of Field Work:	20/03/2023
Start Time:	09:00
Trinitas Consultant:	Karim Nazemi
minus consultant.	
Sampling Type:	Senior Occupational Hygienist Asbestos 23°C









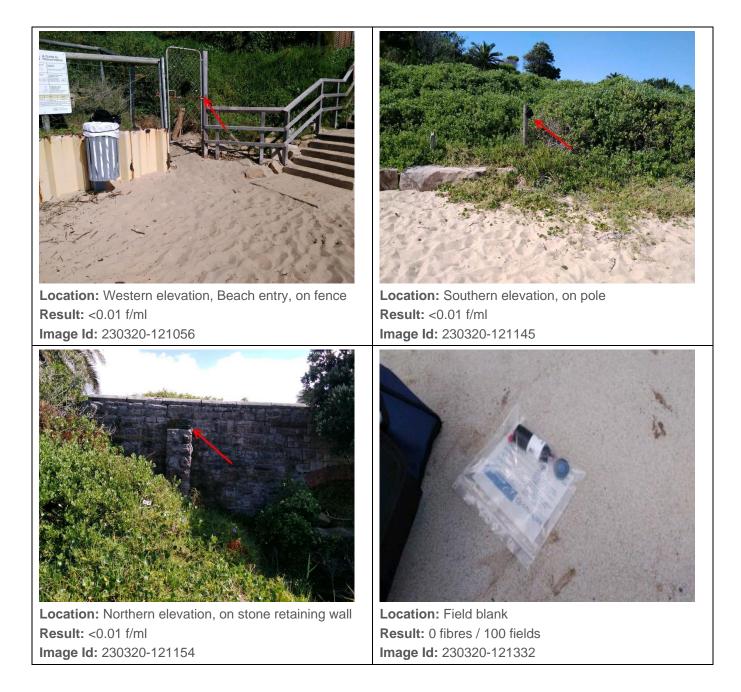
Wind Speed	eed 25km/h								
Scope of Work: Background air monitoring									
Methodology:									
Asbestos fibre static air monitoring and analysis was conducted in accordance with Guidance Note on the Membrane Filter Method for the Estimation of Airborne Asbestos Fibres (NOHSC:3003: April 2005) and in-house procedures of NATA accredited laboratory for the estimation of airborne fibres.									
The Australian exposure s asbestos fibres is 0.01 fibr					and the a	ction limit f	for		
Sample Location / Person Name	AM Type	Sample ID	Average Flow Rate (L/Min)	Time On	Total Sampling Time (Min)	Total Volume (L)	Results		
Western elevation, Beach ent on fence	ry, B	dh063602	3.0	09:02	206	618.00	<0.01 f/ml		
Southern elevation, on pole	В	dh063390	3.0	09:05	200	600.00	<0.01 f/ml		
Northern elevation, on stone B c		dh063407	3.0	09:10	203	609.00	<0.01 f/ml		
Field blank	dh063669					0 fibres / 100 fields			
AM Type Legend									
B = Background Co = C		CI = Clearance	BI= F	ield Blank	Pe =	Personal			
Comments/Recommenda									
All air monitoring results we f/ml NATA accredited laborator Disclaimer:		·			oers during	removal v	vorks <0.01		
The results within this reports shall not be reproduced, ex		· · · ·	g location:	s specified	d and their	analysis.	This report		
Prepared By Approved By									
hermi	(JAC	NADDA							
Karim Nazemi Licensed Asbestos Assess Senior Occupational Hygie 20/03/2023	Denny Bol Principal O Licensed A 22/03/2023	ccupation sbestos A							







Appendix 1: Air Monitoring Locations











How to Contact Us

Mail	Trinitas Group
	PO Box 1376 Parramatta NSW 2124
Email	admin@trinitasgroup.com.au
Address	Level 3, 24 Hunter Street, Parramatta NSW 2150
Website	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







Appendix 2: Laboratory Analysis Results







Certificate of Analysis

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



Environment Testing

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:	Denny Bolatti
Report	973695-AFA
Project Name	LITTLE BAY BEACH
Received Date	Mar 20, 2023
Date Reported	Mar 21, 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 NameLITTLE BAY BEACHProject IDMar 20, 2023Date SampledMar 20, 2023Report973695-AFA

Eurofins Sample No.	Client Sample ID	Location	Fibres/100 fields
23-Ma0048201	DH063390	SOUTHERN ELEVATION, ON POLE	0/100
23-Ma0048202	DH063407	NORTHERN ELEVATION, ON STONE RETAINING WALL	0/100
23-Ma0048203	DH063602	WESTERN ELEVATION, BEACH ENTRY, ON FENCE	0/100
23-Ma0048204	DH063669	FIELD BLANK	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.

Description

Asbestos - LTM-ASB-8010

Testing SiteExtractedSydneyMar 21, 2023

Holding Time 23 Indefinite

		files	Eurofins Envi ABN: 50 005 085		g Australia Pty Ltd					Eurofins ARL Pty Lto ABN: 91 05 0159 898	Eurofins Environment Testing NZ Ltd NZBN: 9429046024954	
web: w	Melbourne Geelong Sydney 6 Monterey Road 19/8 Lewalan Street 179 Magow Dandenong South Grovedale Girraween VIC 3175 VIC 3216 NSW 2145 Tel: +61 3 8564 5000 Tel: +61 3 8564 5000 Tel: +61 2 5			Mitchell Murarrie Mayfield West NSW 230-		Perth 46-48 Banksia Road Welshpool WA 6106 Tel: +61 8 6253 4444 NATA# 2377 Site# 2370	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: Trinitas Group Pty Ltd Address: Level 3, 24 Hunter Street Parramatta NSW 2150						Phone: 0	73695 2 8810 4445 2 8016 0875		Received: Due: Priority: Contact Name:	Mar 20, 2023 10:4 Mar 21, 2023 1 Day Denny Bolatti	9 AM	
Pro	ject Name:	LITTLE BAY	Y BEACH							Eurofins Analytical	Services Manager	: Bonnie Pu
Sample Detail					Asbestos (amount of fibres in air)							
Sydney Laboratory - NATA # 1261 Site # 18217					х							
External Laboratory												
No	Sample ID	Sample Date	Time	Matrix	LAB ID							
1	DH063390	Mar 20, 2023		Air	S23-Ma0048201	х						
	DH063407	Mar 20, 2023		Air	S23-Ma0048202	X						
	DH063602	Mar 20, 2023		Air	S23-Ma0048203							
	DH063669	Mar 20, 2023		Air	S23-Ma0048204	Х						
Test	Counts					4						



Internal Quality Control Review and Glossary General

- 1. 2. 3.
- CC data may be available on request. All soil results are reported on a dry basis, unless otherwise stated. Samples were analysed on an 'as received' basis. Information identified on this report with the colour **blue** indicates data provided by customer that may have an impact on the results. This report replaces any interim results previously issued. 4. 5.

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 g, kg	Airborne fibre reported concentration as Fibres per millilitre of air drawn over the sampler membrane (C) 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 ($V = r \times t$)
L/min min	Airborne fibre sampling Flowrate as litres per minute of air drawn over the sampler membrane (r) Time (t), e.g. of air sample collection period
Calculations	
Airborne Fibre Concentration:	$C = \left(\frac{A}{a}\right) \times \left(\frac{N}{n}\right) \times \left(\frac{1}{t}\right) = K \times \left(\frac{N}{n}\right) \times \left(\frac{1}{t}\right)$
Asbestos Content (as asbestos):	$\% w/w = \frac{(m \times P_A)}{M}$
Weighted Average (of asbestos):	$\mathscr{H}_{WA} = \sum \frac{(m \times P_A)_x}{x}$
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	s) 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.
Sampling	Unless otherwise stated Eurofins are not responsible for sampling equipment or the sampling process.
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:

Bennel Jiri

Senior Analyst-Asbestos

Authorised by:

Sayeed Abu

Senior Analyst-Asbestos

li falle

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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