



Hazardous Materials Survey

Prepared for:	Blue Mountains City Council
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Site:	Springwood Community Arts Centre
Address:	22 Ferguson Rd, Springwood NSW 2777
Field Work Date:	Wednesday, 1 September 2021
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Please note there are limitations associated with this report due to a range of factors, including, but not limited to the scope of works, survey methodology and inaccessible areas. To ensure its contextual integrity, the report must be read in its entirety and should not be copied, distributed or referred to in part only.



This report is not adequate for the purposes of refurbishment or demolition works. This report must be reviewed prior to the commencement of such works and a more intrusive risk assessment undertaken to identify hazardous materials which may be disturbed during building demolition or refurbishment works.

Refer to the Statement of Limitations for further details. Refer to the Areas Not Accessed for further details.

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Summary of Findings

The following table provides a summary of identified hazardous materials during the building inspection:

Building Name	High Risk Asbestos Items	Medium Risk Asbestos Items	Low Risk Asbestos Items	Lead in Paint	Lead in Dust	SMF	PCB	ODS
Springwood Community Centre	1	0	9	2	0	1	1	0
Garage	0	0	0	0	0	0	0	0
TOTAL	1	0	9	2	0	1	1	0

Areas Not Accessed

Area/Item	Not Accessed	Comments
Within air conditioning re-heat boxes	All	
Wall cavities	All	
Building facade fixing brackets	All	
Lift shaft and lift cabin fittings	N/A	
Inaccessible ceiling spaces	All	
Inside mechanical equipment	All	
Within electrical switchboard cupboard or backing	All	
Within internal walls partitioning	All	
Height restricted areas of site and ceiling where safe lifting platforms were not provided	All	
Gaskets, mastics & sealants to pipework, ductwork, mechanical equipment & construction/expansion joints	All	
Waterproof membranes	All	
Under carpeted floor coverings	All	
Fire door cores	All	
Inaccessible culverts and floor trenches or tunnels	All	
Behind ceramic wall tiles	All	

It is possible that hazardous materials, which may be concealed within inaccessible areas/voids, may not have been located during the survey. It is noted that hazardous material may be contained within or behind those areas identified in the above table. Caution should be exercised when accessing these areas, particularly in relation to potential disturbance of the building fabric or concealed spaces.

Scope of Works & Methodology

Scope

The scope of works for the project was as follows:

- Inspect representative and accessible areas of the site to identify hazardous materials:
- Identify the types of asbestos containing material and their condition.
- Assess the risks posed by the hazardous materials.
- Compile a hazardous material register for the site.
- Take photographs of suspected hazardous materials.
- Recommend control measures and actions necessary to manage hazardous materials related risks
- Collect samples of suspected asbestos-containing materials, asbestos dust, lead paint and lead dust

Methodology

Asbestos

This component of the assessment was carried out in accordance with the guidelines documented in SafeWork NSW, Code of Practice for How to Manage and Control of Asbestos in Workplaces (2019). Samples of suspected asbestos- containing materials were collected during the survey and were analysed in a NATA-accredited laboratory for the presence of asbestos by Polarised Light Microscopy.

Synthetic Mineral Fibres (SMF)

This component of the assessment was carried out in accordance with the guidelines documented in the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)]. This report broadly identifies SMF materials found or suspected of being present during the survey based on a visual assessment.

Lead Paint

Representative painted surfaces were sampled for the presence of lead paint. The sampling program was representative of the various types of paints found within the site, concentrating on areas where lead based paints may have been used (eg. Exterior gloss paints, window and door architraves, skirting boards etc). The objective of lead paint identification in this survey is to highlight the presence of lead-based paints within the building, not to specifically identify every source of lead-based paint.

Polychlorinated Biphenyls (PCBs)

Where safely accessible, specifications of capacitors incorporated in light fittings and ceiling fans were noted and cross- referenced with the ANZECC Identification of PCB-containing Capacitors information booklet – 1997. Due to the inherent hazard in accessing electrical components, or other reasons such as height restrictions, some fittings may not have been able to be safely accessed. In these instances, comment is made on the likelihood of PCB-containing materials based upon the age and appearance of the fittings.

Ozone Depleting Substances (ODSs)

Representative items of air conditioning and chiller plant suspected of containing ozone-depleting substances (ODSs) were noted and cross referenced with known ozone-depleting gases published by the United Nations Environment Program.

Recommendations

These recommendations should be followed whenever any hazardous materials are identified, irrespective of the level of risk.

Asbestos

In accordance with the WHS Regulations (2017) and SafeWork NSW, Code of Practice for How to Manage and Control of Asbestos in Workplaces (2019) we make the following recommendations:

- Record the following information in the site's asbestos register:
 - details of the type, condition, accessibility and location of all asbestos-containing material at the site;
 - measures taken control the asbestos-containing material;
 - details of any risk assessment carried out prior to these measures being taken;
 - records of any other work done on the asbestos-containing material;
 - records of any communication and/or consultation relation to asbestos-containing material at the site.
- Ensure a copy of the asbestos register is on site, kept up to date and made readily accessible to the employees, contractors, subcontractors, persons removing asbestos-containing material, persons engaged to do work that may disturb asbestos- containing material and any other person who may be exposed to the asbestos-containing material.
- Review the asbestos register and risk assessments every 12 months, or earlier if:
 - a risk assessment indicates the need for reassessment;
 - there is evidence any risk assessment is no longer valid;
 - there is evidence that any control measures are ineffective;
 - changes to work practices and systems of work are introduced;
 - there is a change to the condition of the asbestos-containing material; or
 - any asbestos-containing material has been disturbed, removed, enclosed or sealed
 - A visual inspection should be undertaken as part of any review of asbestos register. Risk assessments should be undertaken in by a competent person, such as a asbestos containing material specialist.
- Develop and maintain an asbestos management plan that contains the following information:
 - the asbestos register;
 - details of any maintenance or service work on asbestos-containing material;
 - mechanisms for providing the employees, contractors, subcontractors, persons removing asbestos-containing material, persons engaged to do work that may disturb asbestos-containing material and any other person who may be exposed to the asbestos-containing material with the asbestos register;
 - decisions about management options (ie to maintain the asbestos-containing material or replace it) and reasons for those decisions;
 - a timetable for action, including priorities, dates for risk assessment review, etc;
 - monitoring arrangements;
 - responsibilities of all persons involved;
 - training arrangements;
 - procedure for reviewing and updating the asbestos management pan and asbestos register; and
 - safe work methods.
 - The asbestos management plan should be reviewed whenever the asbestos register is reviewed.
- Provide Asbestos Awareness training to staff and site personnel in accordance with the requirements SafeWork NSW, Code of Practice for How to Manage and Control of Asbestos in Workplaces (2019) Part 6.3.
- Consult with staff and health and safety representatives on the findings of this risk assessment and this report must be made available upon request, in accordance with the requirements of *SafeWork NSW, Code of Practice for How to Manage and Control of Asbestos in Workplaces (2019). Part 3.3.*
- Areas highlighted as areas of 'no access' should be presumed to contain asbestos containing material. Appropriate management planning should be implemented in order to control access to and maintenance

activities in these areas, until such a time as they can be inspected and the presence or absence of asbestos containing material can be confirmed.

- Ensure all asbestos-containing materials remaining in-situ are labelled appropriately to warn of the dangers of disturbing these materials, in accordance with the requirements of SafeWork NSW, Code of Practice for How to Manage and Control of Asbestos in Workplaces (2019) *Part 2.5*.

Synthetic Mineral Fibres (SMF)

- Synthetic Mineral Fibre (SMF) materials should be removed under controlled conditions prior to demolition /refurbishment works, in accordance with the requirements of the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC:2006(1990)].

Lead Paint

- All identified lead-based paint systems should be maintained in good condition. Any works on lead-based paint systems likely to create dust, fumes or mist should be undertaken in accordance with AS 4361.2-1998 Guide to Lead Paint Management Part 2: Residential and Commercial Buildings.

Polychlorinated Biphenyls (PCBs)

- Capacitors and electrical components identified as containing Polychlorinated Biphenyls (PCBs) should be de-energised by a licensed electrician and removed under controlled conditions and disposed of in accordance with environmental protection guidelines prior to refurbishment or demolition works.

Ozone Depleting Substances (ODSs)

- Confirm that the contractor conducting works involving refrigerants holds a refrigerant trading authorisation with the Australian Refrigeration Council (ARC) and a refrigerant handling licence under the Ozone and Synthetic Gas Management Regulations 1995.
- Ensure that the air-conditioning contractor engaged to conduct maintenance and repair work involving refrigerants conducts the appropriate recovery and recycling of refrigerants.
- Ozone depleting refrigerants should be decanted by a suitably licensed contractor in accordance with the Australia & New Zealand Refrigerant Handling Code of Practice 2007, Part 1 – Self-Contained Low Charged Systems prior to the de-commissioning of the equipment.
- Ensure that future purchases of air-conditioning plant include refrigerants with non-ozone depleting potential.
- Prior to demolition/refurbishment works undertake a destructive hazardous materials survey of the premises as per the requirements of AS 2601: 2001 The Demolition of Structures, Part 1.6.1.
- It is imperative that demolition or refurbishment works cease pending further sampling if materials suspected of containing asbestos or unknown materials are encountered.

Asbestos Risk Assessment Factors

To assess the health risk posed by the presence of asbestos-containing material, all relevant factors must be considered. These factors include:

- Evidence of physical damage;
- Evidence of water damage;
- Proximity of air plenums and direct air stream;
- Friability of asbestos material;
- Requirement for access for building operations;
- Requirement for access for maintenance operations;
- Likelihood of disturbance of the asbestos material;
- Accessibility;
- Exposed surface areas; and
- Environmental conditions

These aspects are in turn judged upon: (i) potential for fibre generation, and, (ii) the potential for exposure.

Condition

The condition of the asbestos products identified during the survey is usually reported as either being good or poor.

- Good: - refers to asbestos materials, which have not been damaged or have not deteriorated.
- Fair: - refers to the asbestos material having suffered minor cracking or de-surfacing.
- Poor: - describes asbestos materials which have been damaged or their condition has deteriorated over time.

Friability

The friability of asbestos products describes the ease of which the material can be crumbled, and hence to release fibres.

- Friable asbestos: - (e.g. limpet beam insulation, pipe lagging) can be easily crumbled and is more hazardous than non-friable asbestos products.
- Non-Friable asbestos: - commonly known as bonded asbestos, is typically comprised of asbestos fibres tightly bound in a stable non-asbestos matrix. Examples of non-friable asbestos products include asbestos cement materials (sheeting, pipes etc), asbestos containing vinyl floor tiles and electrical backing boards.

Accessibility/Disturbance Potential

Asbestos products can be classified as having low, medium or high accessibility/disturbance potential.

- Low accessibility describes asbestos products that cannot be easily disturbed, such as materials in building voids, set ceilings, etc.
- Medium accessibility describes asbestos products that are visible but normal access is impeded, such as materials behind cladding material or are present in a ceiling space or are height restricted
- High accessibility asbestos products can be easily accessed or damaged due to their close proximity to personnel, e.g. asbestos cement walls or down pipes.

Risk Status

The risk factors described above are used to rank the health risk posed by the presence of asbestos-containing materials.

- A low-risk ranking describes asbestos materials that pose a low health risk to personnel, employees and the general public providing they stay in a stable condition, for example asbestos materials that are in good condition and have low accessibility.
- A medium risk ranking applies to materials that pose an increased risk to people in the area.
- Asbestos materials that possess a high-risk ranking pose a high health risk to personnel or the public in the area of the material. Materials with a high-risk ranking will also possess a Priority 1 recommendation to manage the asbestos and reduce the risk.

The following priority rating system is adopted to assist in the programming and budgeting of the control of asbestos risk identified at the site.

Priority 1 (P1): Organise Remedial Works Immediately

An area has asbestos containing materials, which are either damaged or are being exposed to continual disturbance. Due to these conditions, there is an increased potential for exposure and/or transfer of the material to other parts with continued unrestricted use of this area. Representative asbestos fibre monitoring should be conducted in the building area during normal building operation where recommended. Prompt abatement of the asbestos hazard is recommended. As an interim, restrict access.

Priority 2 (P2): Organise Remedial Works Within 3 months

An area has asbestos containing materials with a potential for disturbance due to the following conditions:

- Material has been disturbed or damaged and its current condition, while not posing an immediate hazard, is unstable.
- The material is accessible and can when disturbed, present a short-term exposure risk.
- Demolition, renovation, refurbishment, maintenance, modification or new installations, involving air-handling system,

Appropriate abatement measures should be taken as soon as practicable. A negligible health risk exists if materials remain undisturbed under the control of an asbestos management plan.

Priority 3 (P3): No Remedial Works Required

An area has asbestos-containing materials, where:

- The condition of the friable asbestos material is now stable and has low potential of being disturbed or
- The material is currently in a non-friable condition, may have slight damage but do not present an exposure risk unless cut, drilled, sanded or otherwise abraded.

Negligible health risks are present if materials are left undisturbed under the control of an asbestos management plan. Defer any major action unless materials are to be disturbed as a result of maintenance, refurbishment or demolition operations.

Priority 4 (P4): No Remedial Works Required

The asbestos material is in a non-friable form and in good condition. It is most unlikely that the material can be disturbed under normal circumstances and can be safely subjected to normal traffic. Even if it were subjected to minor disturbance the material poses a negligible health risk. These materials should be left, and their condition monitored during subsequent reviews. As with any asbestos materials, these materials must be removed prior to renovations that may impact on the materials.

Asbestos Management Requirements

Introduction

Asbestos is the fibrous form of mineral silicates belonging to the serpentine and amphibole groups with the most common types being crocidolite (blue asbestos), amosite (brown or grey asbestos) and chrysotile (white asbestos).

Asbestos is a hazardous material that poses a risk to health by inhalation if the asbestos fibres become airborne and people are exposed to these airborne fibres. Exposure to asbestos fibres is known to cause mesothelioma, asbestosis and lung cancer.

Asbestos and asbestos-containing materials were used extensively in Australian buildings and structures, plant and equipment and in ships, trains and motor vehicles during the 1950s, 1960s and 1970s, and some uses, including some friction materials and gaskets, were only discontinued on 31 December 2003.

Asbestos materials in a bonded form do not present an immediate health risk if they remain undisturbed and in good condition. It is the inhalation of fibres from friable forms of asbestos, or dusts generated by disturbing bonded materials, that may lead to the risk of asbestos related disease.

Asbestos Management Plan (AMP)

An AMP (including an asbestos register) should be developed for the site as per Part 4.1 of SafeWork NSW, Code of Practice for How to Manage and Control of Asbestos in Workplaces (2019). See the Recommendation section of this report for details of what should be included in the AMP.

Updates to Register, AMP and Risk Assessments

The asbestos register and the AMP should be reviewed (via visual inspection by a competent person) and updated at least every 5 years for non-friable ACM and every 12 months for friable ACM where a risk assessment indicates the need for a reassessment or if any ACMs have been removed or updated as per Parts 3.2 and 4.2 of SafeWork NSW, Code of Practice for How to Manage and Control of Asbestos in Workplaces (2019).

Risk assessments should be reviewed regularly, particularly when there is evidence that the risk assessment is no longer valid, control measures are shown to be ineffective or there is a significant change planned for the workplace or work practices or procedures relevant to the risk assessment; or there is a change in ACM condition or ACMs have since been enclosed, encapsulated or removed.

Labelling

All confirmed or presumed ACMs (or their enclosures) should be labelled to identify the material as *asbestos-containing* or *presumed asbestos-containing* and to warn that the items should not be disturbed as per Part 2.5 of SafeWork NSW, Code of Practice for How to Manage and Control of Asbestos in Workplaces (2019).

Training

Staff and site personnel must be provided with *Asbestos Awareness* training in accordance with Part 6.3 of SafeWork NSW, Code of Practice for How to Manage and Control of Asbestos in Workplaces (2019).

Training should inform staff how to work safely alongside asbestos by instructing them of:

- The health risks associated with asbestos.
 - Their roles and responsibilities under the AMP.
 - Procedures for managing asbestos on-site.
 - The correct use of control measures and safe work methods to minimise the risks from asbestos.
- Training records must be kept.

Refurbishment / Demolition Requirements

This audit is limited by the Scope of Works and Methodology outlined within this report.

Generally, a new audit or revised audit is required prior to any planned refurbishment, alteration, demotion or upgrade works that may disturb ACMs at the site in accordance with Australia Standard AS 2601: The Demolition of Structures

Removal of Asbestos Materials

If the asbestos management plan calls for the removal of asbestos, the Work Health and Safety Regulation 2017 (NSW) requires that this be done in accordance with *SafeWork NSW, Code of Practice: How to Safely Remove Asbestos (2019)*.

Ensure that a risk assessment is performed by a competent person prior to the asbestos removal and that the asbestos removalist considers this risk assessment when developing their asbestos removal control plan.

Asbestos removal licences are required for non-friable and friable asbestos removal work. Friable asbestos removal work also requires a WorkCover permit.

Consultation and Communication related to Asbestos Removal

When asbestos-containing materials are to be removed from, there must be full consultation, information sharing and involvement by everyone in the workplace at each step of the asbestos-containing material removal process and records should be kept.

Provision of Information to the Asbestos Removalist

Before any removal work commences, the asbestos removalist must be provided with a copy of the asbestos register and work specifications for the asbestos-containing materials removal.

Air Monitoring

Air monitoring may need to be performed when asbestos-containing materials are being removed to ensure control measures are effective. Air monitoring is required for all indoor removals of friable asbestos-containing materials and for all outdoor removals of friable asbestos-containing materials where there might be a risk to other people.

The need for air monitoring should be determined by a competent person who is independent from the person responsible for the removal work.

If air monitoring is required, the competent person shall develop a documented air-monitoring program, which includes the requirements for clearance monitoring.

Asbestos removal must not commence until the air monitoring has commenced.

The results of air monitoring shall be provided to all relevant parties as soon as possible.

In accordance with Section 261 of the Work Health & Safety Regulations (2017), any air monitoring must be analysed in a NATA-Accredited laboratory in accordance with the Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres 2nd Edition [NOHSC: 3003 (2005)].

Clearance to Reoccupy an Asbestos Work Area

Before clearance is granted for an asbestos work area to be re-occupied, there must be a thorough clearance inspection. The clearance inspection must be conducted by a competent person who is independent from the person responsible for the removal work.

Following the final clearance inspection, a clearance certificate must be issued by this competent person. Any protective barriers between the asbestos work area and public areas must remain intact until completion of all asbestos removal work and successful completion of the clearance inspection.

Disposal of Asbestos Waste

The handling and storage of asbestos waste at a worksite is regulated solely by WorkCover NSW. The storage at other than worksites, transport and disposal of asbestos waste are regulated by the NSW Department of Environment, Climate Change and Water (DECCW).

At the asbestos removal site, asbestos waste must be collected and disposed of in an asbestos waste bag, a drum, a bin or asbestos waste skip. If the asbestos waste cannot be disposed of immediately, it should be stored in a solid waste drum, bin or skip, sealed, and secured at the completion of each day's work.

All asbestos waste must be removed from the workplace by a competent person. When transported, bonded asbestos must be securely packaged at all times and friable asbestos must be kept in sealed containers. All asbestos waste must be transported in a covered, leak-proof vehicle.

The asbestos waste may only be disposed of at a landfill site licensed by the DECCW to accept asbestos waste. This landfill site must receive prior notification by the asbestos remover of the intention to dispose of asbestos waste at this site. The landfill site must issue a certificate of disposal and the asbestos remover must provide the Facilities Manager with a copy of this certificate. It is the Facilities Manager's responsibility to ensure a copy of the certificate of disposal is placed within the relevant site's asbestos register.

Hazardous Materials Management Requirements

Synthetic Mineral Fibre (SMF)

Synthetic Mineral Fibre (SMF) is a man-made insulation material used extensively in industrial, commercial and residential sites as fire rating, reinforcement in construction materials and as acoustic and thermal insulators. Types of SMF materials include fibreglass, rockwool, ceramic fibres and continuous glass filaments.

There are two basic forms of Synthetic Mineral Fibre (SMF) insulation, bonded and un-bonded.

- Bonded SMF is where adhesives, binders or cements have been applied to the SMF before delivery and the SMF product has a specific shape.
- Un-bonded SMF has no adhesives, binders or cements and the SMF is loose material packed into a package.

Exposure to SMF can result in short-term skin, eye and respiratory irritation. SMF is also classified as a possible human carcinogen with a possible increase in risk in lung cancer from long-term exposure.

The use of and the safe removal of SMF materials should be conducted in accordance with the National Code of Practice for the safe use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)].

Polychlorinated Biphenyls (PCBs)

Polychlorinated Biphenyls (PCBs) are a toxic organochlorine used as insulating fluids in electrical equipment such as transformers, capacitors and fluorescent light ballasts that were largely banned from importation in Australia in the 1970s.

PCBs are listed as a probable human carcinogen and should be managed in accordance with the ANZECC Polychlorinated Biphenyls Management Plan, 2003. The handling and disposal of PCBs must be performed in accordance with applicable state and commonwealth environmental protection laws as scheduled PCB waste.

The following Personal Protective Equipment (PPE) should be worn when handling items containing or suspected to contain PCBs - nitrile gloves, eye protection, and disposable overalls. The PPE should be worn when removing capacitors from light fittings in case PCBs leak from the capacitor housing.

Lead Paint

Lead paint, as defined by the Australian Standard AS4361.2: 1998 Guide to Lead Paint Management; Part 2: Residential and Commercial Buildings, is that which contains in excess of 0.1% Lead by weight.

Lead carbonate (white lead) was once the main white pigment in paints for houses and public buildings. Paint with lead pigment was manufactured up until the late 1960's, and in 1969 the National Health and Medical Research Council's Uniform Paint Standard was amended to restrict lead content in domestic paint.

Lead in any form is toxic to humans when ingested or inhaled, with repeated transmission of particles cumulating in lead poisoning. Lead paint is assessed based on two potential routes of exposure. Firstly by the likelihood of inhalation or ingestion by people working in the vicinity of the paint and secondly by the condition of the paint. Paint that is flaking or in poor condition is more likely to be ingested than paint that is in a good, stable condition.

Any work relating to lead paint should be conducted in accordance with the National Code of Practice for the Control and Safe Use of Inorganic Lead at Work [NOHSC: 2015 (1994)].

Ozone Depleting Substances (ODSs)

Ozone Depleting Substances (ODSs) are those substances which deplete the earth's ozone layer and have been widely used in a range of commercial and industrial applications. All bulk imports of these substances (except HCFCs and methyl bromide) are banned into Australia under an international agreement known as the Montreal Protocol.

Hydrochlorofluorocarbons (HCFC) are refrigerants of low ozone depleting potential that are commonly used in air-conditioning plant, chillers and condensers. HCFCs are subject to Australian Government controls on import and manufacture as part of a phase out quota system in accordance with the Montreal Protocol and the Commonwealth Ozone Protection & Synthetic Greenhouse Gas Management Act 1989. Imports of these substances will be fully banned by 2020 with only very limited supplies then available until 2030 to service remaining HCFC-dependant equipment.

Maintenance contractors working with these gases should have procedures in place to safely work with, store, handle and dispose of materials correctly.

Statement of Limitations

This report has been prepared in accordance with the agreement between the client and Trinitas Group. Within the limitations of the agreed upon scope of services, this work has been undertaken and performed in a professional manner, in accordance with generally accepted practices, using a degree of skill and care ordinarily exercised by members of its profession and consulting practice. No other warranty, expressed or implied, is made.

This report is solely for the use of the client and any reliance on this report by third parties shall be at such party's sole risk and may not contain sufficient information for purposes of other parties or for other uses. This report shall only be presented in full and may not be used to support any other objective than those set out in the report, except where written approval with comments are provided by Trinitas Group.

This report relates only to the identification of hazardous materials used in the construction of the building and does not include the identification of dangerous goods or hazardous substances in the form of chemicals used, stored or manufactured within the building or plant.

The following should also be noted:

While the survey has attempted to locate hazardous materials within the site it should be noted that the review was a visual inspection and a limited sampling program was conducted and/or the analysis results of the previous report were used. Representative samples of suspect hazardous materials were collected for analysis. Other hazardous materials of similar appearance are assumed to have a similar content.

Not all suspected hazardous materials were sampled. Only those hazardous materials that were physically accessible could be located and identified. Therefore, it is possible that hazardous materials, which may be concealed within inaccessible areas/voids, may not have been located during the audit. Such inaccessible areas fall into a number of categories.

- Locations behind locked doors.
- In set ceilings or wall cavities.
- Those areas accessible only by dismantling equipment or performing minor localised demolition works.
- Service shafts, ducts etc., concealed within the building structure.
- Energised services, gas, electrical, pressurised vessel and chemical lines
- Voids or internal areas of machinery, plant, equipment, air conditioning ducts etc.
- Totally inaccessible areas such as voids and cavities created and intimately concealed within the building structure. These voids are only accessible during major demolition works.
- Height restricted areas.
- Areas deemed unsafe or hazardous at time of audit

In addition to areas that were not accessible, the possible presence of hazardous containing materials may not have been assessed because it was not considered practicable as:

- It would require unnecessary dismantling of equipment; and/or
- It was considered disruptive to the normal operations of the building; and/or
- It may have caused unnecessary damage to equipment, furnishings or surfaces; and/or
- The hazardous materials containing material was not considered to represent a significant exposure risk; and/or
- The time taken to determine the presence of the hazardous materials containing material was considered prohibitive.

Only minor destructive auditing and sampling techniques were employed to gain access to those areas documented in the register. Consequently, without substantial demolition of the building, it is not possible to guarantee that every hazardous material has been detected.

During the course of normal site works care should be exercised when entering any previously inaccessible areas or areas mentioned above and it is imperative that work cease pending further sampling if materials suspected of containing asbestos or unknown materials are encountered. Therefore, during any refurbishment or demolition works, further investigations and assessment may be required should any suspect material be observed in previously inaccessible areas or areas not fully inspected previously, i.e. carpeted floors.

This report is not intended to be used for the purposes of tendering, programming of works, refurbishment works, or demolition works unless used in conjunction with a specification detailing the extent of the works. To ensure its contextual integrity, the report must be read in its entirety and should not be copied, distributed or referred to in part only

Hazardous Materials Register




Client Name:	Blue Mountains City Council	Property Number:	NA	Survey Date:	11/08/2021
Site Name:	Springwood Community Arts Centre	Building Age:	N/A	Inspected By:	Alex Tam
Site Address:	22 Ferguson Rd, Springwood NSW 2777	Construction Type:	Fibre Cement Sheeting	Building Size (m2):	160
Building Name:	Springwood Community Centre	Roof Type:	Metal	No. Levels:	1

Item	Location	Level	Room-Specific Location	Hazard Type	Item description	Sample Reference	Sample Status	Photo No	Extent	Condition	Friability	Disturbance Potential	Risk Rating	Current Label	Control Priority	Control Recommendation
1	Interior	Roof	Roof - insulation	SMF	Insulation	NA	Presumed Positive	210811-095033	Through out	Good						SMF - Maintain in good condition. Remove under controlled conditions prior to demolition or refurbishment
2	Interior	Ground Floor	Meeting room and studio - Internal walls, dividing wall and ceilings	Asbestos	Plaster-like material	01	Negative	210811-095456								
3	Interior	Ground Floor	Toilet - internal walls and ceiling	Asbestos	FC sheeting	02	Negative	210811-100703								
4	Interior	Ground Floor	Northern exit - infill panels next to exit door	Asbestos	FC sheeting	03	Negative	210811-101411								
5	Interior	Ground Floor	Northern exit - internal walls and ceiling	Asbestos	Plaster-like material	Similar to 01	Presumed Negative	210811-101713								
6	Interior	Ground Floor	Northern exit next to toilet and kitchen - internal and dividing walls	Asbestos	FC sheet	Similar to 02	Presumed Negative	210811-101915								

Item	Location	Level	Room-Specific Location	Hazard Type	Item description	Sample Reference	Sample Status	Photo No	Extent	Condition	Friability	Disturbance Potential	Risk Rating	Current Label	Control Priority	Control Recommendation
7	Interior	Ground Floor	Kitchen - upper section of internal and dividing wall	Asbestos	FC sheeting	04	Negative	210811-102927								
8	Interior	Ground Floor	Kitchen	Asbestos	Plaster-like material	Similar to 01	Presumed Negative	210811-103311								
9	Interior	Ground Floor	Office - internal walls and ceiling	Asbestos	Plaster-like material	Similar to 01	Presumed Negative	210811-103648								
10	Interior	Ground Floor	Kitchen and office - ceilings	Asbestos	Plaster-like material	Similar to 01	Presumed Negative	210811-104056								
11	Interior	Ground Floor	Storage room - internal walls and ceiling	Asbestos	Plaster-like material	Similar to 01	Presumed Negative	210811-104158								
12	Interior	Ground Floor	Entry lobby - internal, dividing walls and ceiling	Asbestos	Plaster-like material	Similar to 01	Presumed Negative	210811-104916								
13	Interior	Ground Floor	Meeting room and studio - light fitting	PCB	Single and double capacity	NA	Presumed Positive	210811-105634	7 single and 11 double	Good						PCB - Approach with caution during maintenance works. Remove and dispose of appropriately prior to refurbishment and demolition works
14	Interior	Ground Floor	All elevation of the floor - door frame, walls and ceilings	Lead in Paint	Lower colour paint system	05	Negative	210811-110142								
15	Interior	Roof	Roof cavity - settled dust on ceiling lining	Lead in Dust	Settled dust on wipe	06	Negative	210811-110901								
16	Exterior	Ground Floor	All elevation of the building - door frames, windows frames, handrail and column	Lead in Paint	Lower colour paint system	07	Positive	210811-111218	Through out	Fair						Lead Dust - Remove lead dust with HEPA vacuum and wet wipe. Seal porous materials with a sealer/PVA glue
17	Exterior	Ground Floor	All elevation of the building - external walls	Lead in Paint	Lower colour paint system	08	Positive	210811-111231	Through out	Poor						Lead Dust - Remove lead dust with HEPA vacuum and wet wipe. Seal porous materials with a sealer/PVA glue
18	Exterior	Ground Floor	Southern elevation of the building - windows frames sealants	Asbestos	Mastic-like material	11	Negative	210811-111328								

Item	Location	Level	Room-Specific Location	Hazard Type	Item description	Sample Reference	Sample Status	Photo No	Extent	Condition	Friability	Disturbance Potential	Risk Rating	Current Label	Control Priority	Control Recommendation
19	Exterior	Ground Floor	Northern elevation of the building - external walls	Asbestos	FC sheeting	09	Positive	210823-124111	Through out	Fair	Non-Friable	Low	Low	No	P4	P4 - No short term remediation works required. Review periodically and manage as part of an AMP
20	Exterior	Ground Floor	External toilet - internal walls and ceiling	Asbestos	FC sheeting	10	Positive	210811-111626	Through out	Fair	Non-Friable	Low	Low	No	P4	P4 - No short term remediation works required. Review periodically and manage as part of an AMP
21	Exterior	Ground Floor	All elevation of the building - packer to support beams	Asbestos	FC sheeting	03 - See ID Report	Positive	210811-111734	Through out	Good	Non-Friable	Low	Low	No	P4	P4 - No short term remediation works required. Review periodically and manage as part of an AMP
22	Exterior	Ground Floor	Southern and northern elevation of the building - gable	Asbestos	FC sheeting	Similar to 09	Presumed Positive	210823-123900	Through out	Fair	Non-Friable	Low	Low	No	P4	P4 - No short term remediation works required. Review periodically and manage as part of an AMP
23	Exterior	Ground Floor	Western and northern elevation of the building - eaves	Asbestos	FC sheeting	Similar to 09	Presumed Positive	210823-120443	Through out	Fair	Non-Friable	Low	Low	No	P4	P4 - No short term remediation works required. Review periodically and manage as part of an AMP
24	Exterior	Ground Floor	SE elevation of the building - electrical distribution backing board	Asbestos	Bituminous-like material	Nil - electrical hazards	Presumed Positive	210823-120217	1 unit	Good	Non-Friable	Low	Low	No	P4	P4 - No short term remediation works required. Review periodically and manage as part of an AMP
25	Exterior	Ground Floor	Northern elevation of the building- infill panels above external walls	Asbestos	Similar to 03	FC sheeting	Presumed Negative	210823-120823								
26	Exterior	Ground Floor	Eastern, western and northern elevation of the building - walls corner cover strip	Asbestos	Moulded FC	12	Positive	210823-121005	Through out	Fair	Non-Friable	Low	Low	No	P4	P4 - No short term remediation works required. Review periodically and manage as part of an AMP
27	Exterior	Ground Floor	NE elevation of the building - flooring	Asbestos	Moulded FC	13	Positive	210823-121504	Through out	Fair	Non-Friable	Low	Low	No	P4	P4 - No short term remediation works required. Review periodically and manage as part of an AMP

Item	Location	Level	Room-Specific Location	Hazard Type	Item description	Sample Reference	Sample Status	Photo No	Extent	Condition	Friability	Disturbance Potential	Risk Rating	Current Label	Control Priority	Control Recommendation
28	Exterior	Ground Floor	Northern elevation of the building (next to rear entrance) - infill panel and eaves	Asbestos	FC sheeting	Similar to 10	Presumed Positive	210823-124259	Through out	Good	Non-Friable	Low	Low	No	P4	P4 - No short term remediation works required. Review periodically and manage as part of an AMP
29	Interior	Ground Floor	Kitchen - Floor covering	Asbestos	(a) vinyl sheeting and backing material. (b) adhesive	01 a/b	(a) Positive (b) Negative	210915-090207	10	Poor	Non-Friable	Medium	High	No	P1	P1 - Ensure damaged asbestos vinyl sheeting remains covered with current non-asbestos floor covering. Label the material as containing ACM

	Client Name:	Blue Mountains City Council	Property Number:	NA	Survey Date:	11/08/2021
	Site Name:	Springwood Community Arts Centre	Building Age:	N/A	Inspected By:	Alex Tam
	Site Address:	22 Ferguson Rd, Springwood NSW 2777	Construction Type:	Metal	Building Size (m2):	20
	Building Name:	Garage	Roof Type:	Metal	No. Levels:	1

Item	Location	Level	Room-Specific Location	Hazard Type	Item description	Sample Reference	Sample Status	Photo No	Extent	Condition	Friability	Disturbance Potential	Risk Rating	Current Label	Control Priority	Control Recommendation
nil asbestos identified.																

Positive Photos



Photo No: 210811-095033
Result: SMF - Presumed Positive
Location-Level: Interior - Roof
Room-Location: Roof - insulation
Feature-Material: Insulation
Item No - Risk Rating: 1 - N/A

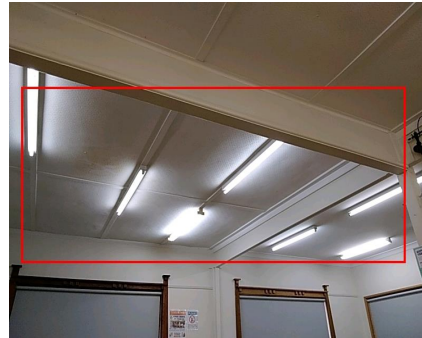


Photo No: 210811-105634
Result: PCB - Presumed Positive
Location-Level: Interior - Ground Floor
Room-Location: Meeting room and studio - light fitting
Feature-Material: Single and double capacity
Item No - Risk Rating: 13 - N/A



Photo No: 210811-111218
Result: Lead in Paint - Positive
Location-Level: Exterior - Ground Floor
Room-Location: All elevation of the building - door frames, windows frames, handrail and column
Feature-Material: Lower colour paint system
Item No - Risk Rating: 16 - N/A



Photo No: 210811-111231
Result: Lead in Paint - Positive
Location-Level: Exterior - Ground Floor
Room-Location: All elevation of the building - external walls
Feature-Material: Lower colour paint system
Item No - Risk Rating: 17 - N/A



Photo No: 210823-124111
Result: Asbestos - Positive
Location-Level: Exterior - Ground Floor
Room-Location: Northern elevation of the building - external walls
Feature-Material: FC sheeting
Item No - Risk Rating: 19 - Low



Photo No: 210811-111626
Result: Asbestos - Positive
Location-Level: Exterior - Ground Floor
Room-Location: External toilet - internal walls and ceiling
Feature-Material: FC sheeting
Item No - Risk Rating: 20 - Low



Photo No: 210811-111734
Result: Asbestos - Positive
Location-Level: Exterior - Ground Floor
Room-Location: All elevation of the building - packer to support beams
Feature-Material: FC sheeting
Item No - Risk Rating: 21 - Low



Photo No: 210823-123900
Result: Asbestos - Presumed Positive
Location-Level: Exterior - Ground Floor
Room-Location: Southern and northern elevation of the building - gable
Feature-Material: FC sheeting
Item No - Risk Rating: 22 - Low



Photo No: 210823-120443
Result: Asbestos - Presumed Positive
Location-Level: Exterior - Ground Floor
Room-Location: Western and northern elevation of the building - eaves
Feature-Material: FC sheeting
Item No - Risk Rating: 23 - Low



Photo No: 210823-120217
Result: Asbestos - Presumed Positive
Location-Level: Exterior - Ground Floor
Room-Location: SE elevation of the building - electrical distribution backing board
Feature-Material: Bituminous-like material
Item No - Risk Rating: 24 - Low



Photo No: 210823-121005
Result: Asbestos - Positive
Location-Level: Exterior - Ground Floor
Room-Location: Eastern, western and northern elevation of the building - walls corner cover strip
Feature-Material: Moulded FC
Item No - Risk Rating: 26 - Low



Photo No: 210823-121504
Result: Asbestos - Positive
Location-Level: Exterior - Ground Floor
Room-Location: NE elevation of the building - flooring
Feature-Material: Moulded FC
Item No - Risk Rating: 27 - Low



Photo No: 210823-124259
Result: Asbestos - Presumed Positive
Location-Level: Exterior - Ground Floor
Room-Location: Northern elevation of the building (next to rear entrance) - infill panel and eaves
Feature-Material: FC sheeting
Item No - Risk Rating: 28 - Low



Photo No: 210915-090207
Result: Asbestos - Positive
Location-Level: Interior - Ground Floor
Room-Location: Kitchen - Floor covering
Feature-Material: (a) vinyl sheeting and backing material. (b) adhesive
Item No - Risk Rating: 29 - High

Negative Photos



Photo No: 210811-095456
Result: Asbestos - Negative
Location-Level: Interior - Ground Floor
Room-Location: Meeting room and studio - Internal walls, dividing wall and ceilings
Feature-Material: Plaster-like material



Photo No: 210811-100703
Result: Asbestos - Negative
Location-Level: Interior - Ground Floor
Room-Location: Toilet - internal walls and ceiling
Feature-Material: FC sheeting



Photo No: 210811-101411
Result: Asbestos - Negative
Location-Level: Interior - Ground Floor
Room-Location: Northern exit - infill panels next to exit door
Feature-Material: FC sheeting

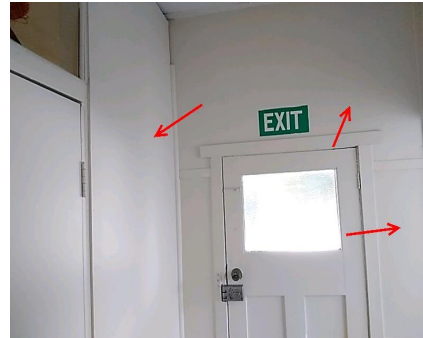


Photo No: 210811-101713
Result: Asbestos - Presumed Negative
Location-Level: Interior - Ground Floor
Room-Location: Northern exit - internal walls and ceiling
Feature-Material: Plaster-like material

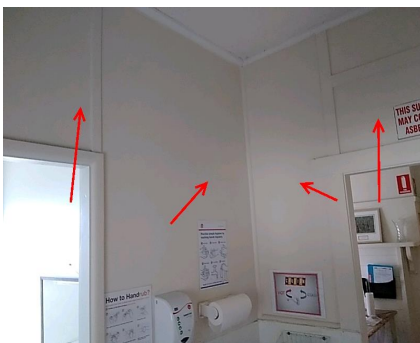


Photo No: 210811-101915
Result: Asbestos - Presumed Negative
Location-Level: Interior - Ground Floor
Room-Location: Northern exit next to toilet and kitchen - internal and dividing walls
Feature-Material: FC sheet



Photo No: 210811-102927
Result: Asbestos - Negative
Location-Level: Interior - Ground Floor
Room-Location: Kitchen - upper section of internal and dividing wall
Feature-Material: FC sheeting



Photo No: 210811-103311
Result: Asbestos - Presumed Negative
Location-Level: Interior - Ground Floor
Room-Location: Kitchen
Feature-Material: Plaster-like material



Photo No: 210811-103648
Result: Asbestos - Presumed Negative
Location-Level: Interior - Ground Floor
Room-Location: Office - internal walls and ceiling
Feature-Material: Plaster-like material



Photo No: 210811-104056
Result: Asbestos - Presumed Negative
Location-Level: Interior - Ground Floor
Room-Location: Kitchen and office - ceilings
Feature-Material: Plaster-like material

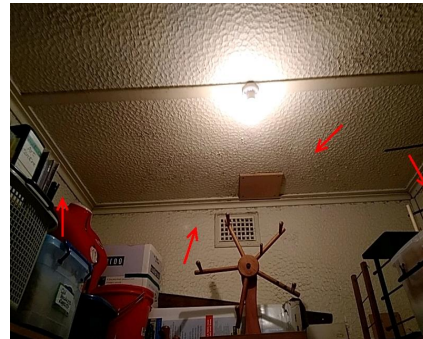


Photo No: 210811-104158
Result: Asbestos - Presumed Negative
Location-Level: Interior - Ground Floor
Room-Location: Storage room - internal walls and ceiling
Feature-Material: Plaster-like material



Photo No: 210811-104916
Result: Asbestos - Presumed Negative
Location-Level: Interior - Ground Floor
Room-Location: Entry lobby - internal, dividing walls and ceiling
Feature-Material: Plaster-like material



Photo No: 210811-110142
Result: Lead in Paint - Negative
Location-Level: Interior - Ground Floor
Room-Location: All elevation of the floor - door frame, walls and ceilings
Feature-Material: Lower colour paint system



Photo No: 210811-110901
Result: Lead in Dust - Negative
Location-Level: Interior - Roof
Room-Location: Roof cavity - settled dust on ceiling lining
Feature-Material: Settled dust on wipe



Photo No: 210811-111328
Result: Asbestos - Negative
Location-Level: Exterior - Ground Floor
Room-Location: Southern elevation of the building - windows frames sealants
Feature-Material: Mastic-like material



Photo No: 210823-120823
Result: Asbestos - Presumed Negative
Location-Level: Exterior - Ground Floor
Room-Location: Northern elevation of the building- infill panels above external walls
Feature-Material: Similar to 03



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 conditions exist.

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 816706-A
Project name SPRINGWOOD COMMUNITY ARTS CENTRE
Received Date Aug 12, 2021

Client Sample ID			06 - SETTLED DUST ON WIPE
Sample Matrix			Wipes
Eurofins Sample No.			S21-Au23297
Date Sampled			Aug 11, 2021
Test/Reference	LOR	Unit	
Heavy Metals			
Lead	1	Total ug	190

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

Heavy Metals

Testing Site

Sydney

Extracted

Aug 13, 2021

Holding Time

180 Days

- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS

Company Name: Trinitas Group Pty Ltd
Address: Level 3, 24 Hunter Street
Parramatta
NSW 2150

Order No.:
Report #: 816706
Phone: 02 8810 4445
Fax: 02 8016 0875

Received: Aug 12, 2021 3:04 PM
Due: Aug 19, 2021
Priority: 5 Day
Contact Name: - RESULTS/SRAs

Project Name: SPRINGWOOD COMMUNITY ARTS CENTRE

Eurofins Analytical Services Manager : John Nguyen

Sample Detail						Asbestos Absence / Presence	Lead	Lead (% w/w)
Melbourne Laboratory - NATA Site # 1254								
Sydney Laboratory - NATA Site # 18217						X	X	X
Brisbane Laboratory - NATA Site # 20794								
Perth Laboratory - NATA Site # 23736								
Mayfield Laboratory - NATA Site # 25079								
External Laboratory								
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID			
1	01 - PLASTER-LIKE MATERIAL	Aug 11, 2021		Building Materials	S21-Au23292	X		
2	02 - FC SHEETING	Aug 11, 2021		Building Materials	S21-Au23293	X		
3	03 - FC SHEETING	Aug 11, 2021		Building Materials	S21-Au23294	X		
4	04 - FC SHEETING	Aug 11, 2021		Building Materials	S21-Au23295	X		
5	05 - LOWER COLOUR	Aug 11, 2021		Paint	S21-Au23296			X

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

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261 Site # 23736

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

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

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

Company Name: Trinitas Group Pty Ltd
Address: Level 3, 24 Hunter Street
Parramatta
NSW 2150

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Eurofins Analytical Services Manager : John Nguyen

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Melbourne Laboratory - NATA Site # 1254								
Sydney Laboratory - NATA Site # 18217						X	X	X
Brisbane Laboratory - NATA Site # 20794								
Perth Laboratory - NATA Site # 23736								
Mayfield Laboratory - NATA Site # 25079								
External Laboratory								
	PAINT SYSTEM							
6	06 - SETTLED DUST ON WIPE	Aug 11, 2021		Wipes	S21-Au23297		X	
7	07 - LOWER COLOUR PAINT SYSTEM	Aug 11, 2021		Paint	S21-Au23298			X
8	08 - LOWER COLOUR PAINT SYSTEM	Aug 11, 2021		Paint	S21-Au23299			X
9	09 - FC SHEETING	Aug 11, 2021		Building Materials	S21-Au23300	X		

Australia

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New Zealand

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

ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Company Name: Trinitas Group Pty Ltd
Address: Level 3, 24 Hunter Street
Parramatta
NSW 2150

Project Name: SPRINGWOOD COMMUNITY ARTS CENTRE

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Eurofins Analytical Services Manager : John Nguyen

Sample Detail						Asbestos Absence / Presence	Lead	Lead (% w/w)
Melbourne Laboratory - NATA Site # 1254								
Sydney Laboratory - NATA Site # 18217						X	X	X
Brisbane Laboratory - NATA Site # 20794								
Perth Laboratory - NATA Site # 23736								
Mayfield Laboratory - NATA Site # 25079								
External Laboratory								
10	10 - FC SHEETING	Aug 11, 2021		Building Materials	S21-Au23301	X		
11	11 - MASTIC-LIKE MATERIAL	Aug 11, 2021		Building Materials	S21-Au23302	X		
Test Counts						7	1	3

Internal Quality Control Review and Glossary

General

- Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
- All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
- All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
- Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
- Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
- SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
- Samples were analysed on an 'as received' basis.
- Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
- This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

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.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

ug/L: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
CP	Client Parent - QC was performed on samples pertaining to this report
NC	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient

QC - Acceptance Criteria

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries: Recoveries must lie between 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC Data General Comments

- Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
- Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
- Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
- Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
- Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
- pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
- Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
- Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
- For Matrix Spikes and LCS results a dash " - " in the report means that the specific analyte was not added to the QC sample.
- Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

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

Authorised by:

John Nguyen	Analytical Services Manager
John Nguyen	Senior Analyst-Metal (NSW)



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



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Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025—Testing
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 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 816706-AID
Project Name **SPRINGWOOD COMMUNITY ARTS CENTRE**
Received Date Aug 12, 2021
Date Reported Aug 19, 2021

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.
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.
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.
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.
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).
 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).
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 SPRINGWOOD COMMUNITY ARTS CENTRE
Project ID
Date Sampled Aug 11, 2021
Report 816706-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
01 - PLASTER-LIKE MATERIAL	21-Au23292	Aug 11, 2021	Approximate Sample <1g / 10x5x2mm Sample consisted of: Brown soft fibrous plaster like material with off-white paint layer	No asbestos detected. Organic fibre detected. No trace asbestos detected.
02 - FC SHEETING	21-Au23293	Aug 11, 2021	Approximate Sample <1g / 10x5x2mm Sample consisted of: Grey fibre cement material material with brown paint layer on swab	No asbestos detected. Organic fibre detected. No trace asbestos detected.
03 - FC SHEETING	21-Au23294	Aug 11, 2021	Approximate Sample <1g / 10x5x1mm Sample consisted of: Grey fibre cement material with off-white paint layer	No asbestos detected. Organic fibre detected. No trace asbestos detected.
09 - FC SHEETING	21-Au23300	Aug 11, 2021	Approximate Sample <1g / 25x10x3mm Sample consisted of: (a) Grey fibrous plaster cement material (b) Off- white paint layer	Chrysotile and amosite asbestos detected (a).
10 - FC SHEETING	21-Au23301	Aug 11, 2021	Approximate Sample <1g / 5x5x2mm Sample consisted of: (a) Grey compressed fibre cement material on swab (b) Off- white paint layer	Chrysotile and crocidolite asbestos detected.
11 - MASTIC-LIKE MATERIAL	21-Au23302	Aug 11, 2021	Approximate Sample 2g / 25x6x4mm Sample consisted of: White plaster cement like material and soft black rubber like material	No asbestos detected. Organic fibre detected. 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	Sydney	Aug 12, 2021	Indefinite

Company Name: Trinitas Group Pty Ltd
Address: Level 3, 24 Hunter Street
Parramatta
NSW 2150

Order No.:
Report #: 816706
Phone: 02 8810 4445
Fax: 02 8016 0875

Received: Aug 12, 2021 3:04 PM
Due: Aug 19, 2021
Priority: 5 Day
Contact Name: - RESULTS/SRAs

Project Name: SPRINGWOOD COMMUNITY ARTS CENTRE

Eurofins Analytical Services Manager : John Nguyen

Sample Detail						Asbestos Absence / Presence	Lead	Lead (% w/w)
Melbourne Laboratory - NATA Site # 1254								
Sydney Laboratory - NATA Site # 18217						X	X	X
Brisbane Laboratory - NATA Site # 20794								
Perth Laboratory - NATA Site # 23736								
Mayfield Laboratory - NATA Site # 25079								
External Laboratory								
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID			
1	01 - PLASTER-LIKE MATERIAL	Aug 11, 2021		Building Materials	S21-Au23292	X		
2	02 - FC SHEETING	Aug 11, 2021		Building Materials	S21-Au23293	X		
3	03 - FC SHEETING	Aug 11, 2021		Building Materials	S21-Au23294	X		
4	05 - LOWER COLOUR PAINT SYSTEM	Aug 11, 2021		Paint	S21-Au23296			X

Company Name: Trinitas Group Pty Ltd
Address: Level 3, 24 Hunter Street
Parramatta
NSW 2150

Order No.:
Report #: 816706
Phone: 02 8810 4445
Fax: 02 8016 0875

Received: Aug 12, 2021 3:04 PM
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Contact Name: - RESULTS/SRAs

Project Name: SPRINGWOOD COMMUNITY ARTS CENTRE

Eurofins Analytical Services Manager : John Nguyen

Sample Detail						Asbestos Absence / Presence	Lead	Lead (% w/w)
Melbourne Laboratory - NATA Site # 1254								
Sydney Laboratory - NATA Site # 18217						X	X	X
Brisbane Laboratory - NATA Site # 20794								
Perth Laboratory - NATA Site # 23736								
Mayfield Laboratory - NATA Site # 25079								
External Laboratory								
5	06 - SETTLED DUST ON WIPE	Aug 11, 2021		Wipes	S21-Au23297		X	
6	07 - LOWER COLOUR PAINT SYSTEM	Aug 11, 2021		Paint	S21-Au23298			X
7	08 - LOWER COLOUR PAINT SYSTEM	Aug 11, 2021		Paint	S21-Au23299			X
8	09 - FC SHEETING	Aug 11, 2021		Building Materials	S21-Au23300	X		
9	10 - FC SHEETING	Aug 11, 2021		Building Materials	S21-Au23301	X		

Australia

Melbourne

6 Monterey Road
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Sydney

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Company Name: Trinitas Group Pty Ltd
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Project Name: SPRINGWOOD COMMUNITY ARTS CENTRE

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Eurofins Analytical Services Manager : John Nguyen

Sample Detail						Asbestos Absence / Presence	Lead	Lead (% w/w)
Melbourne Laboratory - NATA Site # 1254								
Sydney Laboratory - NATA Site # 18217						X	X	X
Brisbane Laboratory - NATA Site # 20794								
Perth Laboratory - NATA Site # 23736								
Mayfield Laboratory - NATA Site # 25079								
External Laboratory								
10	11 - MASTIC-LIKE MATERIAL	Aug 11, 2021		Building Materials	S21-Au23302	X		
Test Counts						6	1	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 blue colour, 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 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Advice.

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: weight for weight basis	grams per kilogram
Filter loading:	fibres/100 graticule areas
Reported Concentration:	fibres/mL
Flowrate:	L/min

Terms

Dry	Sample is dried by heating prior to analysis
LOR	Limit of Reporting
COC	Chain of Custody
SRA	Sample Receipt Advice
ISO	International Standards Organisation
AS	Australian Standards
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 (2009), including supporting document Recommended Procedures for Laboratory Analysis of Asbestos in Soil (2011)
NEPM	National Environment Protection (Assessment of Site Contamination) Measure, 2013 (as amended)
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded and/or sound condition. For the purposes of the NEPM, ACM is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
AF	Asbestos Fines. Asbestos containing materials, including friable, weathered and bonded materials, able to pass a 7mm x 7mm sieve. Considered under the NEPM as equivalent to "non-bonded / friable".
FA	Fibrous Asbestos. Asbestos containing materials in a friable and/or severely weathered condition. For the purposes of the NEPM, FA is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
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.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres in the matrix.

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

Qualifier Codes/Comments

Code	Description
N/A	Not applicable

Asbestos Counter/Identifier:

Md Mominul Haque Senior Analyst-Asbestos (NSW)

Authorised by:

Sayed Abu Senior Analyst-Asbestos (NSW)



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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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 816706-S
Project name SPRINGWOOD COMMUNITY ARTS CENTRE
Received Date Aug 12, 2021

Client Sample ID			05 - LOWER COLOUR PAINT SYSTEM	07 - LOWER COLOUR PAINT SYSTEM	08 - LOWER COLOUR PAINT SYSTEM
Sample Matrix			Paint	Paint	Paint
Eurofins Sample No.			S21-Au23296	S21-Au23298	S21-Au23299
Date Sampled			Aug 11, 2021	Aug 11, 2021	Aug 11, 2021
Test/Reference	LOR	Unit			
Lead (% w/w)	0.01	%	< 0.01	4.6	11

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

Lead (% w/w)

Testing Site

Sydney

Extracted

Aug 12, 2021

Holding Time

6 Months

- Method: LTM-MET-3040 Metals in Waters Soils & Sediments by ICP-MS

Company Name: Trinitas Group Pty Ltd
Address: Level 3, 24 Hunter Street
Parramatta
NSW 2150

Project Name: SPRINGWOOD COMMUNITY ARTS CENTRE

Order No.:
Report #: 816706
Phone: 02 8810 4445
Fax: 02 8016 0875

Received: Aug 12, 2021 3:04 PM
Due: Aug 19, 2021
Priority: 5 Day
Contact Name: - RESULTS/SRAs

Eurofins Analytical Services Manager : John Nguyen

Sample Detail						Asbestos Absence / Presence	Lead	Lead (% w/w)
Melbourne Laboratory - NATA Site # 1254								
Sydney Laboratory - NATA Site # 18217						X	X	X
Brisbane Laboratory - NATA Site # 20794								
Perth Laboratory - NATA Site # 23736								
Mayfield Laboratory - NATA Site # 25079								
External Laboratory								
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID			
1	01 - PLASTER-LIKE MATERIAL	Aug 11, 2021		Building Materials	S21-Au23292	X		
2	02 - FC SHEETING	Aug 11, 2021		Building Materials	S21-Au23293	X		
3	03 - FC SHEETING	Aug 11, 2021		Building Materials	S21-Au23294	X		
4	04 - FC SHEETING	Aug 11, 2021		Building Materials	S21-Au23295	X		
5	05 - LOWER COLOUR	Aug 11, 2021		Paint	S21-Au23296			X

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Project Name: SPRINGWOOD COMMUNITY ARTS CENTRE

Eurofins Analytical Services Manager : John Nguyen

Sample Detail						Asbestos Absence / Presence	Lead	Lead (% w/w)
Melbourne Laboratory - NATA Site # 1254								
Sydney Laboratory - NATA Site # 18217						X	X	X
Brisbane Laboratory - NATA Site # 20794								
Perth Laboratory - NATA Site # 23736								
Mayfield Laboratory - NATA Site # 25079								
External Laboratory								
	PAINT SYSTEM							
6	06 - SETTLED DUST ON WIPE	Aug 11, 2021		Wipes	S21-Au23297		X	
7	07 - LOWER COLOUR PAINT SYSTEM	Aug 11, 2021		Paint	S21-Au23298			X
8	08 - LOWER COLOUR PAINT SYSTEM	Aug 11, 2021		Paint	S21-Au23299			X
9	09 - FC SHEETING	Aug 11, 2021		Building Materials	S21-Au23300	X		

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Company Name: Trinitas Group Pty Ltd
Address: Level 3, 24 Hunter Street
Parramatta
NSW 2150

Order No.:
Report #: 816706
Phone: 02 8810 4445
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Received: Aug 12, 2021 3:04 PM
Due: Aug 19, 2021
Priority: 5 Day
Contact Name: - RESULTS/SRAs

Project Name: SPRINGWOOD COMMUNITY ARTS CENTRE

Eurofins Analytical Services Manager : John Nguyen

Sample Detail						Asbestos Absence / Presence	Lead	Lead (% w/w)
Melbourne Laboratory - NATA Site # 1254								
Sydney Laboratory - NATA Site # 18217						X	X	X
Brisbane Laboratory - NATA Site # 20794								
Perth Laboratory - NATA Site # 23736								
Mayfield Laboratory - NATA Site # 25079								
External Laboratory								
10	10 - FC SHEETING	Aug 11, 2021		Building Materials	S21-Au23301	X		
11	11 - MASTIC-LIKE MATERIAL	Aug 11, 2021		Building Materials	S21-Au23302	X		
Test Counts						7	1	3

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

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.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

ug/L: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
CP	Client Parent - QC was performed on samples pertaining to this report
NC	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient

QC - Acceptance Criteria

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries: Recoveries must lie between 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
9. For Matrix Spikes and LCS results a dash " - " in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

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

Authorised by:

John Nguyen	Analytical Services Manager
John Nguyen	Senior Analyst-Metal (NSW)



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](#).

Eurofins shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

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 818216-AID
Project Name **SPRINGWOOD COMMUNITY ARTS CENTRE**
Received Date Aug 19, 2021
Date Reported Aug 19, 2021

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.
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.
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.
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.
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).
 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).
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 SPRINGWOOD COMMUNITY ARTS CENTRE
Project ID
Date Sampled Aug 19, 2021
Report 818216-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
04	21-Au34924	Aug 19, 2021	Approximate Sample 1g / 15x10x2mm Sample consisted of: White fibrous plaster like material with green-off-white paint on swab	No asbestos detected. Organic fibre detected. 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	Sydney	Aug 19, 2021	Indefinite

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

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261 Site # 23736

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

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

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

Company Name: Trinitas Group Pty Ltd
Address: Level 3, 24 Hunter Street
Parramatta
NSW 2150
Project Name: SPRINGWOOD COMMUNITY ARTS CENTRE

Order No.:
Report #: 818216
Phone: 02 8810 4445
Fax: 02 8016 0875

Received: Aug 19, 2021 2:41 PM
Due: Aug 19, 2021
Priority: Same day
Contact Name: - RESULTS/SRAs

Eurofins Analytical Services Manager : John Nguyen

Sample Detail						Asbestos Absence / Presence
Melbourne Laboratory - NATA Site # 1254						
Sydney Laboratory - NATA Site # 18217						X
Brisbane Laboratory - NATA Site # 20794						
Perth Laboratory - NATA Site # 23736						
Mayfield Laboratory - NATA Site # 25079						
External Laboratory						
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID	
1	04	Aug 19, 2021		Building Materials	S21-Au34924	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 blue colour, 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 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Advice.

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: weight for weight basis	grams per kilogram
Filter loading:	fibres/100 graticule areas
Reported Concentration:	fibres/mL
Flowrate:	L/min

Terms

Dry	Sample is dried by heating prior to analysis
LOR	Limit of Reporting
COC	Chain of Custody
SRA	Sample Receipt Advice
ISO	International Standards Organisation
AS	Australian Standards
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 (2009), including supporting document Recommended Procedures for Laboratory Analysis of Asbestos in Soil (2011)
NEPM	National Environment Protection (Assessment of Site Contamination) Measure, 2013 (as amended)
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded and/or sound condition. For the purposes of the NEPM, ACM is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
AF	Asbestos Fines. Asbestos containing materials, including friable, weathered and bonded materials, able to pass a 7mm x 7mm sieve. Considered under the NEPM as equivalent to "non-bonded / friable".
FA	Fibrous Asbestos. Asbestos containing materials in a friable and/or severely weathered condition. For the purposes of the NEPM, FA is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
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.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres in the matrix.

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

Qualifier Codes/Comments

Code	Description
N/A	Not applicable

Asbestos Counter/Identifier:

Sayeed Abu Senior Analyst-Asbestos (NSW)

Authorised by:

Laxman Dias Senior Analyst-Asbestos (NSW)



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](#).

Eurofins shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

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 819014-AID
Project Name **ADDITIONAL; SPRINGWOOD COMMUNITY ART CENTRE**
Received Date Aug 23, 2021
Date Reported Aug 24, 2021

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.
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.
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.
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.
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).
 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).
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 ADDITIONAL; SPRINGWOOD COMMUNITY ART CENTRE
Project ID
Date Sampled Aug 23, 2021
Report 819014-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
12-MOULD FC	21-Au41615	Aug 23, 2021	Approximate Sample <1g / 7x4x2mm Sample consisted of: a) Grey fibre cement material b) Beige paint attached	Chrysotile and crocidolite asbestos detected(a).
13-MOULD FC	21-Au41616	Aug 23, 2021	Approximate Sample <1g / 8x4x2mm Sample consisted of: Grey compressed fibre cement material	Chrysotile 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	Sydney	Aug 23, 2021	Indefinite

Australia

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

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261 Site # 23736

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

New Zealand

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

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

ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Company Name: Trinitas Group Pty Ltd
Address: Level 3, 24 Hunter Street
Parramatta
NSW 2150

Order No.:
Report #: 819014
Phone: 02 8810 4445
Fax: 02 8016 0875

Received: Aug 23, 2021 2:55 PM
Due: Aug 24, 2021
Priority: 1 Day
Contact Name: - RESULTS/SRAs

Project Name: ADDITIONAL; SPRINGWOOD COMMUNITY ART CENTRE

Eurofins Analytical Services Manager : John Nguyen

Sample Detail

Asbestos Absence / Presence

Melbourne Laboratory - NATA Site # 1254

Sydney Laboratory - NATA Site # 18217

Brisbane Laboratory - NATA Site # 20794

Perth Laboratory - NATA Site # 23736

Mayfield Laboratory - NATA Site # 25079

External Laboratory

No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID	
1	12-MOULD FC	Aug 23, 2021		Building Materials	S21-Au41615	X
2	13-MOULD FC	Aug 23, 2021		Building Materials	S21-Au41616	X
Test Counts						2

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 blue colour, 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 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Advice.

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: weight for weight basis	grams per kilogram
Filter loading:	fibres/100 graticule areas
Reported Concentration:	fibres/mL
Flowrate:	L/min

Terms

Dry	Sample is dried by heating prior to analysis
LOR	Limit of Reporting
COC	Chain of Custody
SRA	Sample Receipt Advice
ISO	International Standards Organisation
AS	Australian Standards
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 (2009), including supporting document Recommended Procedures for Laboratory Analysis of Asbestos in Soil (2011)
NEPM	National Environment Protection (Assessment of Site Contamination) Measure, 2013 (as amended)
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded and/or sound condition. For the purposes of the NEPM, ACM is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
AF	Asbestos Fines. Asbestos containing materials, including friable, weathered and bonded materials, able to pass a 7mm x 7mm sieve. Considered under the NEPM as equivalent to "non-bonded / friable".
FA	Fibrous Asbestos. Asbestos containing materials in a friable and/or severely weathered condition. For the purposes of the NEPM, FA is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
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.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres in the matrix.

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

Qualifier Codes/Comments

Code	Description
N/A	Not applicable

Asbestos Counter/Identifier:

Chamath JHM Annakkage Senior Analyst-Asbestos (NSW)

Authorised by:

Laxman Dias Senior Analyst-Asbestos (NSW)



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](#).

Eurofins shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

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 820941-AID
Project Name **SPRINGWOOD COMMUNITY ARTS CENTRE**
Received Date Aug 31, 2021
Date Reported Sep 02, 2021

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.
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.
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.
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.
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).
 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).
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 SPRINGWOOD COMMUNITY ARTS CENTRE
Project ID
Date Sampled Aug 31, 2021
Report 820941-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
01	21-Au58365	Aug 31, 2021	Approximate Sample 12g / 200x50x2mm Sample consisted of: (a) Beige fibro linoleum sheet (b) Amber glue	Chrysotile asbestos detected(a).
02	21-Au58366	Aug 31, 2021	Approximate Sample 46g / 90x40x5mm Sample consisted of: Grey compressed fibre cement	Chrysotile, amosite and crocidolite asbestos detected.
03	21-Au58367	Aug 31, 2021	Approximate Sample 15g / 50x30x5mm Sample consisted of: Grey compressed fibre cement	Chrysotile 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	Sydney	Aug 31, 2021	Indefinite

Company Name: Trinitas Group Pty Ltd
Address: Level 3, 24 Hunter Street
Parramatta
NSW 2150
Project Name: SPRINGWOOD COMMUNITY ARTS CENTRE

Order No.:
Report #: 820941
Phone: 02 8810 4445
Fax: 02 8016 0875

Received: Aug 31, 2021 4:38 PM
Due: Sep 2, 2021
Priority: 2 Day
Contact Name: - RESULTS/SRAs

Eurofins Analytical Services Manager : John Nguyen

Sample Detail						Asbestos Absence / Presence
Melbourne Laboratory - NATA Site # 1254						
Sydney Laboratory - NATA Site # 18217						X
Brisbane Laboratory - NATA Site # 20794						
Perth Laboratory - NATA Site # 23736						
Mayfield Laboratory - NATA Site # 25079						
External Laboratory						
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID	
1	01	Aug 31, 2021		Building Materials	S21-Au58365	X
2	02	Aug 31, 2021		Building Materials	S21-Au58366	X
3	03	Aug 31, 2021		Building Materials	S21-Au58367	X
Test Counts						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 blue colour, 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 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Advice.

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: weight for weight basis	grams per kilogram
Filter loading:	fibres/100 graticule areas
Reported Concentration:	fibres/mL
Flowrate:	L/min

Terms

Dry	Sample is dried by heating prior to analysis
LOR	Limit of Reporting
COC	Chain of Custody
SRA	Sample Receipt Advice
ISO	International Standards Organisation
AS	Australian Standards
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 (2009), including supporting document Recommended Procedures for Laboratory Analysis of Asbestos in Soil (2011)
NEPM	National Environment Protection (Assessment of Site Contamination) Measure, 2013 (as amended)
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded and/or sound condition. For the purposes of the NEPM, ACM is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
AF	Asbestos Fines. Asbestos containing materials, including friable, weathered and bonded materials, able to pass a 7mm x 7mm sieve. Considered under the NEPM as equivalent to "non-bonded / friable".
FA	Fibrous Asbestos. Asbestos containing materials in a friable and/or severely weathered condition. For the purposes of the NEPM, FA is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
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.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres in the matrix.

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

Qualifier Codes/Comments

Code	Description
N/A	Not applicable

Asbestos Counter/Identifier:

Chamath JHM Annakkage Senior Analyst-Asbestos (NSW)

Authorised by:

Sayed Abu Senior Analyst-Asbestos (NSW)



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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