The Council of the King's School
Hazardous Building Materials Survey

The King's School
87-129 Pennant Hills Rd
Parramatta NSW

16 May 2024

61452/154,048 (Rev 4)

JBS&G Australia Pty Ltd

www.jbsg.com.au

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Abbreviations

Term	Definition
AC	Asbestos Cement
ACM	Asbestos Containing Material
ACD	Asbestos Containing Dust
ANZECC	Australian and New Zealand Environment Conservation Council
AMP	Asbestos Management Plan
COC	Chain of Custody
EPA NSW	Environmental Protection Authority, New South Wales
FA	Friable Asbestos
HIL	Health Investigation Levels
HSL	Health Screening Levels
JBS&G	JBS&G Australia Pty Ltd
LAA	Licenced Asbestos Assessor
LCD	Lead Containing Dust
LOR	Limit of Reporting
LP	Lead Paint
NATA	National Association of Testing Authorities, Australia
NEPC	National Environmental Protection Council
NEPM	National Environmental Protection Measure
PCB	Polychlorinated Biphenyls
PPE	Personal Protective Equipment
SMF	Synthetic Mineral Fibre
SWA	Safe Work Australia
SWNSW	SafeWork New South Wales
WHS (WH&S)	Workplace Health and Safety

1. Introduction

1.1 Background

JBS&G Australia Pty Ltd (JBS&G) was engaged by The Council of the King's School (the client) care of TSA Management Pty Ltd (TSA) to undertake a targeted hazardous building materials surveys (HBMS) to support a State Significant Development Application (SSDA) for proposed upgrades to school infrastructure at The King's School (TKS), located at 87-129 Pennant Hills Road, North Parramatta NSW 2151 (the site). The site location and layout are shown in **Figure 1** and **Figure 2,** respectively, with structures scheduled for demolition identified in **Figures 2** to **5** and structures for construction as part of the proposed development shown in **Figure 6**.

It is understood that the client is seeking to upgrade and enhance existing site conditions and to improve and plan for amenities and facilities to support the current and future student and staff population. The SSDA seeks consent for the staged redevelopment of The King's School, including:

- Concept Proposal for the provision of new and upgraded facilities, including:
    - Building envelope for a new Sports Pavilion within the western sports field precinct (subject to further detailed approval).
    - Building envelope for a new Boarding House within the northern residential precinct to the north of the Doyle Sports Fields and adjacent building envelope for Staff Quarters (subject to further detailed approval).
    - Building envelope for a new Day Boy House between Dalmas House and Burkitt House, including the associated relocation of Ryrie Road (subject to further detailed approval).
    - Earthworks and the associated demolition of existing buildings and structures, and removal of trees and landscaping.
    - Staged increase in staff and student numbers.
    - Detailed Stage 1 works (as outlined below).
- Detailed Stage 1 works, including:
    - Earthworks and the associated demolition and existing buildings and structures.
    - Traffic upgrade works including the construction of a new vehicular entrance into the site from Masons Drive, new drop-off pick up facilities, internal access roads and increased car parking and bus parking.
    - The construction of a new Staff Residence Building comprising residences for staff and their families within the Senior School Boarding Precinct.
    - The construction of a new building for Science, Technology, Engineering, Arts and Maths (the 'STEAM building') within the Senior School and associated landscaping.
    - The staged construction of new buildings required to upgrade the Preparatory School, including:
        - Construction of a new Performing Arts and Music Centre comprising a dedicated performance space and music practice rooms to the northwest of Horrocks Road.
        - Construction of a new General Learning Unit building comprising additional classrooms / general learning spaces adjacent to the existing dam.
        - Upgrades to pedestrian access throughout the school.
        - Staged increase in staff and student numbers.

- The removal and replacement of trees and associated landscaping.

As such, the Client has requested that a HBMS of all the affected structures be completed to determine the nature and extent (if any) of hazardous building materials present to facilitate the SSDA process. The HBMS was limited to structures impacted by the proposed redevelopment and demolition plan is attached as **Appendix D.**

This advice presents the outcomes of the inspection undertaken by JBS&G personnel and provides recommendations on the management and/or requirements for the removal of identified hazardous materials in accordance with regulations and guidance in force at the time of the inspection.

The structures were inspected for the following hazardous materials:

- Asbestos containing materials (ACMs);
- Asbestos containing dust (ACD);
- Lead based paints (LP);
- Lead containing Dust (LCD)
- Synthetic mineral fibres (SMF); and
- Polychlorinated biphenyls (PCB).

This HBMS report does not comprise a comprehensive assessment of the presence of hazardous building materials within all structures at the site, rather it is a targeted pre-demolition HBMS based on direction received from the client and limited to the structures being redeveloped as part of the Stages works.

No previous hazardous building materials survey reports or registers were made available to JBS&G prior to the completion of these works.

1.2 Objectives

The objective of the HBMS was to determine the presence, quantity, and condition of any hazardous materials within the buildings prior to proposed acquisition of the site.

The HBMS and production of this report have been undertaken in accordance with the requirements of:

- *Work Health and Safety Act* (2011) (WHS 2011);
- *Work Health and Safety Regulation* (2017) (WHS 2017);
- *How to Safely Remove Asbestos Code of Practice*, SafeWork NSW, (2022) (SWNSW 2022a);
- *How to Manage and Control Asbestos in the Workplace Code of Practice*, SafeWork NSW (2022) (SWNSW 2022b);
- Australian Standard 4361.2 (1998) *Guide to Lead Paint Management – Part 2: Residential and Commercial Buildings* (AS4361.2-1998);
- Australian Standard 4361.2 (2017) *Guide to Hazardous Paint Management – Part 2: Lead Paint in Residential, Public and Commercial Buildings* (AS4361.2-2017);
- National Occupational Health and Safety Commission's *National Standard for Synthetic Mineral Fibres* [NOHSC:1004(1990)];
- National Occupational Health and Safety Commission's *National Code of Practice for the Safe Use of Synthetic Mineral Fibres*, [NOHSC:2006(1990)];
- Australian and New Zealand Environment Conservation Council's *Identification of PCB-containing Capacitors: An information booklet for Electricians and Electrical Contractors*, (ANZECC 1997); and
- NSW EPA *Waste Classification Guidelines Part 1: Classifying Waste* (NSW EPA 2014).

1.3 Hazardous Materials Survey Limitations

Whilst all reasonable care has been taken by JBS&G during the completed HBMS, this report is limited due to:

- Only safely accessible areas of the site were surveyed.
- Access restrictions to operational areas such as energised services, gas, air conditioning/heating, pressurised vessels, chemical lines etc.
- Potential materials located in areas in which they could not reasonably be envisaged or anticipated.
- Limited access to internal building components e.g. set floor, walls, ceiling cavities etc., in which case only representative areas were inspected with the hand tools available to the JBS&G consultants for minor destructive investigation.
- Access restrictions to areas above 3 metres or any area deemed inaccessible without the use of specialised equipment.
- Access to restrictions to areas of structures where the structural integrity for the floor and/or ceiling has been compromised.
- Service pits, confined spaces, voids, cavities within the building structure and internal areas of plant and equipment that could not be safely accessed.

It should be noted that buildings built between the 1930s – 1980s may have general occurrences of ACMs in areas which are not readily accessible with the hand tools available for the survey. These areas and materials include, inter alia:

- Fibre Cement Sheeting (FCS) used as packing to bearers and joists in the underfloor void or as boxing/shuttering to concrete formwork;
- FCS packing between window/door frames and timber studs; and
- Compressed FCS underneath tiled floor areas.

Whilst all care is taken by the consultants to uncover hidden materials, not all areas can be accessed within the allowable timeframe without more industrial (power) tools. As such, only minor destructive sampling techniques were employed to gain access within authorised areas. Consequently, without substantial demolition of the building, it is not possible to guarantee that every source of hazardous material has been detected. JBS&G recommends that areas inaccessible during the survey be inspected as the demolition progresses. If suspected hazardous materials are observed, confirm the presence or absence of hazardous materials through laboratory testing.

In the event suspected hazardous materials are identified during strip out or demolition which are not included in this report, JBS&G recommends that works should cease, and an assessment of the materials undertaken by a competent person for further appropriate recommendations.

No one section or part of a section of this report is to be taken as giving an overall idea of this report. Each section is to be read in conjunction with the whole of this report, including the appendices and attachments.

2. Methodology

2.1 Hazardous Materials

2.1.1 Asbestos Containing Materials and Asbestos Containing Dust

Representative samples of suspected ACMs and ACDs were collected where possible and placed into a zip-lock bags. Samples were subsequently delivered to a NATA accredited laboratory for analysis using polarised light microscopy in conjunction with dispersion staining techniques. Similar materials to those analysed or other materials known to contain asbestos from the consultant's experience (e.g. Electrical backing boards, corrugated asbestos cement roofs and older fibre cement sheeting) or materials not accessible may also be assumed to contain asbestos as per the relevant Code of Practice.

At the time of inspection, the following details were recorded:

- Location;
- Type of material;
- Accessibility;
- Condition;
- Friability; and
- Volume/dimensions.

A total of forty-two (42) suspected ACM samples and twelve (12) suspected ACD samples were collected during the completion of the HBMS.

2.1.2 Lead Based Paint

Australian Standard AS4361.2 (2017) *Guide to Hazardous Paint Management – Part 2: Lead Paint in Residential, Public and Commercial Buildings* defines lead paints as those in which the lead content (calculated as lead metal) is in excess of 0.1 percent by weight of the dry film. This can be determined by field spot tests, laboratory testing or the use of portable X-ray fluorescence (XRF) field tests. suspected paint samples were collected and delivered to a NATA accredited laboratory for analysis using inductively coupled plasma optical emission spectrometry (ICP-OES).

A total of twenty-one (21) suspected lead paint samples were collected during the completion of the HBMS.

2.1.3 Lead Containing Dust

Representative samples of accumulated or settled dust were collected and delivered to a NATA accredited laboratory for analysis via ICP-OES. A conservative assessment criteria was adopted for this investigation given the potential for human exposure and the readily disturbed and uncontained nature of accumulated or settled dust.

Concentrations of lead within accumulated or settled dust were compared against the health investigation level (HIL) for residential sites with garden/accessible soil of 300 mg/kg as outlined in National Environment Protection Measure (NEPC 2013) guidelines.

Twelve (12) suspected LCD samples were collected during the completion of the HBMS.

2.1.4 Polychlorinated Biphenyls

Old fluorescent light fittings and other appliances which may contain capacitors containing PCB dielectric oil are identified by inspection and evaluation with the consultant's experience of similar light fittings and appliances. Alternatively, where possible and when it was safe to do so, a representative light fitting was opened to reveal the capacitor and the make and model recorded to be compared against the ANZECC (1997) list of PCB containing capacitors.

2.1.5 Synthetic Mineral Fibres

SMF containing materials were either sampled as per the asbestos methodology or assumed to contain SMF from the consultant's experience of similar materials.

At the time of the HBMS no samples were collected for SMF identification.

2.2 Inaccessible Areas

As per SWNSW 2022b, any areas not accessible must be recorded as such. Where hazardous materials are suspected to be contained within inaccessible areas, these shall be documented in this report and the associated Hazardous Materials Register (**Appendix A**).

3. Site Description

The initial HBMS was conducted on 18 and 19 April, by Robert Sharp, one of JBS&G's experienced hazardous materials surveyors and a SafeWork NSW Licensed Asbestos Assessor (LAA 001343). Robert was assisted during the works by Jordan Gomez, one of JBS&G's experienced hazardous materials surveyors. A supplementary HBMS was conducted on 14 July 2023 by Robert Sharp, due to the updating of the proposed redevelopment and demolition plan.

The site was bound by bushland to the north and west, Pennant Hills road to the south and residential structures to the east. The subject structures were located in the central portion, northern portion and western portion. The site comprised multiple structures, as shown in **Figure 3-6**. The subject structures included in this investigation are identified as follows:

- K-2 Building (Prep School);
- K-2 Playground Area;
- Performing Arts Building;
- Shed 1;
- Shed 2;
- Shed 3;
- Shed 4;
- Shed 5;
- Out House;
- Chicken Coop;
- Sheep Shearing Shed;
- Green House;
- Grey Shed;
- Seed Shed;
- Hawkhurst cottage;
- Angliss cottage;
- Soccer equipment storage; (removed from demolition plan)
- Shipping containers #1; (removed from demolition plan)
- Soccer bathrooms;
- Old Boys Clubhouse;
- Demountables;
- Tennis Courts;
- Proposed Science, Technology, Engineering, Arts and Maths (STEAM) Building;
- Day Boy House; and
- Proposed Access Road and Car Park.

At the time of inspection, the site was an operational educational facility, however, the inspection was undertaken during school holidays with only minimal staff were present.

The type, location, friability, accessibility, and approximate quantities of identified and suspected hazardous materials based are provided in the Hazardous Materials Register in **Appendix A**. Photographs taken during the HBMS are presented in **Appendix B**.

A summary of the observations made during the HBMS is included in the following sections.

3.1 K-2 Building

The K-2 structure was the Preparatory School Building and was located in the central portion of the site as shown in **Figure 3**. The structure comprised three pairs of classrooms with and shared a common wet area for hand washing and cleaning, a student bathroom, toy storage, smaller teaching spaces, staff office space, staff kitchenette and lunchroom with a playground adjacent to the northeast. The structure was a single storey with a combination of metal and tile roofing, exposed brick external walls, plaster internal walls and ceiling and concrete floor with various floor coverings.

A summary of the key observations made during the HBMS are as follows:

- Non-asbestos containing fibre cement sheeting (K2-A01) was identified as packers to the aircon unit foot on the external north wall.
- Non-asbestos containing bituminous mastic (K2-A02) was identified to expansion joint to the concrete slab and brick wall interface.
- Non-asbestos containing beige mastic (K2-A03) was identified to brick wall expansion joint.
- Non-asbestos containing fibre cement sheeting (K2-A04) was identified to ceiling lining of the external awning.
- Assumed non-asbestos containing fibre cement sheeting (As per K2-A04) was identified to the external eaves.
- Non-asbestos containing fibre cement sheeting (K2-A05) was identified to under cloak verge.
- Non-asbestos containing blue vinyl sheeting (K2-A06) was identified to northern classrooms wet area floor.
- Non-asbestos containing black vinyl sheeting (K2-A07) was identified to wet area kickboard throughout the structure.
- Non-asbestos containing timber look vinyl sheet (K2-A08) was identified to teacher's kitchenette floor.
- Assumed non-asbestos containing timber look vinyl sheet (As per K2-A08) was identified to the floor of the teachers bathroom.
- Non-asbestos containing fibre cement sheeting (K2-A09) was identified to walls of the student bathrooms.
- Non-asbestos containing fibre cement sheeting (K2-A10) was identified as packers to the roof joist and brick wall within the ceiling cavity. Loose debris of this material was observed throughout the cavity.
- Non-asbestos containing fibre cement cladding (K2-A11) was identified to external gable ends.
- Non-asbestos containing beige vinyl sheet (K2-A12) was identified to floor of the wet area of the southwest classrooms.

- Non-asbestos containing red vinyl sheet (K2-A13) was identified to wet area floor and play area floor throughout east wing classrooms.
- Lead concentrations within settled dust below the adopted site criteria (K2-LD01, 63mg/kg) was identified to ceiling cavity in the north-south portion of building. This dust was also found not to contain asbestos (K2-AD01).
- Lead concentrations within settled dust below the adopted site criteria (K2-LD02, 21mg/kg) was identified to ceiling cavity above the student bathrooms. This dust was also found not to contain asbestos (K2-AD02).
- Non-lead based grey paint (K2-L01, 0.02 %w/w) was identified to external downpipes.
- Fluorescent light fittings were observed throughout the building, however, based on the age of construction (2002) and the new appearance of the light fittings, these light fittings are not suspected to contain PCB containing capacitors.
- Assumed SMF materials were identified throughout the structure in various forms as follows:
    - Sarking to underside roof within the ceiling cavity;
    - Insulation batts to the ceiling cavity;
    - Insulation to 'Zipp' hydrotap within the staff kitchenette;
    - Insulation core to 50L hot water unit within the ceiling cavity above student bathroom; and
    - Air conditioning ducting.

3.2 K-2 Playground Area

The K-2 Playground was the preparatory school outdoor eating and play facilities and was located in the central portion of the site directly adjacent the K-2 Building as shown in **Figure 3**. The structure comprised a multi-tiered mixed astroturf and deck area with a sand pit, mixed metal and plastic play equipment and landscaped areas.

A summary of the key observations made during the HBMS are as follows:

- Non-asbestos containing mortar (PG-A01) was identified to the joins of the sandstone retaining walls for the tiers of the playground.
- All accessible paint systems were screened via XRF spectrometer and classified as non-lead based paints (XRF < 0.01 mg/cm^2).
- No SMF containing materials were identified at the time of inspection.
- No PCB containing materials were identified at the time of inspection.

3.3 Performing Arts Refurbishment

The Performing Arts Refurbishment area was part of the existing Performing Arts Building and was located in the central portion of the site as shown in **Figure 3**. The structure comprised four music lesson classrooms, two offices, a kitchenette area, and a band rehearsal space. The demolition of this structure is limited to the internal walls, new external doors, existing external walkways and awning as shown within **Appendix D**. The structure was a single storey structure with a tile roof, exposed brick external walls, plaster internal walls and ceiling and concrete floor with carpet and vinyl floor coverings.

A summary of the key observations made during the HBMS are as follows:

- Non-asbestos containing mastic (PA-A01) was identified to the external entrance way sandstone block walls.
- Non-asbestos containing beige mastic (PA-A02) was identified to the external exposed brick wall expansion joins.
- Non-asbestos containing fibre cement sheeting (PA-A03) was identified to the external awning ceiling liner.
- Non-asbestos containing fibre cement sheeting (PA-A04) was identified to the under-cloak verge of the terracotta tiled roof.
- Non-asbestos containing bituminous mastic (PA-A05) was identified to the external concrete footpath expansion joins.
- Non-asbestos containing beige vinyl sheet (PA-A06) was identified to the kitchenette floor.
- Lead concentrations within settled dust below the adopted site criteria (PA-LD01, 67mg/kg) was identified to ceiling cavity of the building. This dust was also found not to contain asbestos (PA-AD01).
- Non-lead based grey paint (PA-L01, <0.01% w/w) was identified to the external down pipes.
- Fluorescent light fittings were observed throughout the building, however, based on the age of construction (2002) and the new appearance of the light fittings, these light fittings are not suspected to contain PCB containing capacitors.
- Assumed SMF materials were identified throughout the structure in various forms as follows:
    - Sarking to underside roof within the ceiling cavity;
    - Insulation batts to the ceiling cavity;
    - Insulation core to 50L Hot water unit above the kitchenette, observed from within the hall adjacent; and
    - Air conditioning ducting.

3.4 Shed 1

Shed 1 was to the west of the K-2 building as shown in **Figure 3**. The structure was a disused storage area for the residential structure to the south. The structure was overgrown with vines and plants and had fallen into disrepair. The structure comprised a corrugated metal roof, timber walls and timber floorboards.

A summary of the key observations made during the HBMS are as follows:

- Non-asbestos containing putty (S1-A01) was identified to external window caulking.
- Lead concentrations within settled dust above the adopted site criteria (S1-LD01, 3,300 mg/kg) was identified to the internal floor. This dust was also found not to contain asbestos (S1-AD01).
- Lead based white paint (S1-L01, 19% w/w) was identified to external timber windows and timber cladding.
- All remaining accessible paint systems were screened via XRF spectrometer and classified as non-lead based paints (XRF < 0.01 mg/cm^2).
- No SMF containing materials were identified at the time of inspection.
- No PCB containing materials were identified at the time of inspection.

3.5 Shed 2

Shed 2 was to the west of Shed 1 as shown in **Figure 3,** the structure was a disused storage area for the residential structure to the south. The structure was overgrown with vines and plants and had fallen into significant disrepair. The structure comprised a corrugated metal roof and walls and timber floorboards.

A summary of the key observations made during the HBMS are as follows:

- Significantly elevated levels of lead within settled dust above the adopted site criteria (S2-LD01, 22,000 mg/kg) was identified to the floor. This dust was also found not to contain asbestos (S2-LD01).
- Lead based cream paint (S2-L01, 23% w/w) was identified to external corrugated metal walls.
- Lead based white paint with green paint undercoat (S2-L02, 35% w/w) was identified to external timber windows, window frame, door and door frame.
- All remaining accessible paint systems were screened via XRF spectrometer and classified as non-lead based paints (XRF < 0.01 mg/cm^2).
- No SMF containing materials were identified at the time of inspection.
- No PCB containing materials were identified at the time of inspection.

3.6 Shed 3

Shed 3 was to the west of Shed 2 as shown in **Figure 3,** the structure was a disused storage area for the residential structure to the south. The structure was overgrown with vines and plants and had fallen into significant disrepair. The structure comprised a corrugated metal roof, timber walls and timber floorboards.

A summary of the key observations made during the HBMS are as follows:

- Non-asbestos containing white mastic (S3-A01) was identified to external window caulking.
- Lead concentrations within settled dust above the adopted site criteria (S2-LD01, 1,500 mg/kg) was identified to the floor. This dust was also found not to contain asbestos (S2-AD01).
- Lead based cream paint (S3-L01, 23%w/w) was identified to external walls.
- Lead based green paint with white paint overcoat (S3-L02, 35%w/w) was identified to external windows, window frame, door and door frame.
- Lead based white paint with blue paint undercoat (S3-L03, 8.3%w/w) was identified to internal walls.
- All remaining accessible paint systems were screened via XRF spectrometer and classified as non-lead based paints (XRF < 0.01 mg/cm^2).
- No SMF containing materials were identified at the time of inspection.
- No PCB containing materials were identified at the time of inspection.

3.7 Shed 4

Shed 4 was located to the east of Shed 1 as shown in **Figure 3.** The structure was a renovated storage area of feed for the agricultural animals to the north. The structure comprised a corrugated metal roof, mixed timber and fibre cement clad external walls, fibre cement internal ceiling liner, plywood sheets cover the original internal fibre cement wall and timber floorboards.

A summary of the key observations made during the HBMS are as follows:

- Non-asbestos containing fibre cement sheeting (S4-A01) was identified to the external cladding.
- Non-asbestos containing white mastic (S4-A02) was identified to the external window caulking.
- Asbestos containing fibre cement sheeting (S4-A03) was identified to the internal wall behind the plywood cover and ceiling liner.
- Lead concentrations within settled dust below the adopted site criteria (S4-LD01, 60mg/kg) was identified to the floor. This dust was also found not to contain asbestos (S4-AD01).
- Lead based white paint with green undercoat (S4-L01, 2.4%w/w) was identified to external walls.
- Lead based white paint (S4-L02, 15%w/w) was identified to the door, door frame and window frame.
- All remaining accessible paint systems were screened via XRF spectrometer and classified as non-lead based paints (XRF < 0.01 mg/cm^2).
- No SMF containing materials were identified at the time of inspection.
- No PCB containing materials were identified at the time of inspection.
- At the time of inspection there was no access to the ceiling cavity.

3.8 Shed 5

Shed 5 was located to the west of the Cow Barn as shown in **Figure 3**. The structure comprised a corrugated metal awning over the cattle/sheep yard with a concrete floor and a timber frame.

A summary of the key observations made during the HBMS are as follows:

- No asbestos containing materials were identified at the time of inspection.
- Non-lead based yellow paint (S5-L01, <0.01%w/w) was identified to cattle/sheep crush.
- All remaining accessible paint systems were screened via XRF spectrometer and classified as non-lead based paints (XRF < 0.01 mg/cm^2).
- No SMF containing materials were identified at the time of inspection.
- No PCB containing materials were identified at the time of inspection.

3.9 Out House

The Out House was located directly north of shed 1 as shown in **Figure 3,** the structure was an abandoned toilet. The structure comprised a single room with a metal roof, brick walls and concrete slab floor.

A summary of the key observations made during the HBMS are as follows:

- Lead concentrations within settled dust above the adopted site criteria (OH-LD01, 1,200 mg/kg) was identified to the floor. This dust was also found not to contain asbestos (OH-AD01).
- All accessible paint systems were screened via XRF spectrometer and classified as non-lead based paints (XRF < 0.01 mg/cm^2).
- No SMF containing materials were identified at the time of inspection.
- No PCB containing materials were identified at the time of inspection.

3.10 Chicken Coop

The Chicken Coop was located within the south boundary of the agriculture zone to the northwest of the K-2 building as shown in **Figure 3,** and comprised three chicken pens. The structure comprised a corrugated metal roof, mixed wire mesh and corrugated metal walls and concrete slab floor.

No hazardous building materials were identified at the time of inspection.

3.11 Sheep Shearing Shed

The Sheep Shearing Shed was located within the central portion of the agriculture zone as shown in **Figure 3.** The structure comprised an open walled shed with a corrugated metal roof, timber frame and a concrete slab floor.

A summary of the key observations made during the HBMS are as follows:

- All accessible paint systems were screened via XRF spectrometer and classified as non-lead based paints (XRF < 0.01 mg/cm^2).
- Fluorescent light fittings were identified throughout and are suspected to contain PCB capacitors, however, a detailed inspection was not possible due to the supply of live electricity.

3.12 Green House

The Green house located on the south east boundary of the agriculture zone, directly north of the K-2 building as shown in **Figure 3.** The structure comprised a single room with mixed glass and concrete walls, glass roof and a concrete base.

No hazardous building materials were identified at the time of inspection.

3.13 Grey Shed

The Grey shed located on the east boundary of the agriculture zone, directly north of the green house as shown in **Figure 3**. The structure comprised a storage area for wire and materials associated with the agricultural zone. The structure comprised a metal clip lock roof, metal walls, metal frame and concrete slab floor.

A summary of the key observations made during the HBMS are as follows:

- No asbestos containing materials were identified at the time of inspection.
- No suspected lead containing dusts was identified at the time of inspection.

- All accessible paint systems were screened via XRF spectrometer and classified as non-lead based paints (XRF < 0.01 mg/cm^2).
- Assumed SMF containing sarking were identified to the underside of the ceiling.
- No PCB containing materials were identified at the time of inspection.

3.14 Seed Shed

The Seed Shed located within the northeast boundary of the agriculture zone, directly north of the grey shed as shown in **Figure 3**. The structure was utilised for the cultivation of seeds and comprised single room with shade cloth and wire mesh walls and roof with a metal frame.

No hazardous building materials were identified at the time of inspection.

3.15 Hawkhurst cottage

The Hawkhurst cottage residential structure located within the northern portion of the site directly west of the Angliss Cottage as shown in **Figure 4.** The structure was not able to be accessed at the time of inspection. A visual assessment of the structure from the road adjacent was permitted by the site owner. The Hawkhurst cottage anecdotally was constructed in the 1980's and is a single storey structure with an attached garage.

The structure comprised a terracotta tiled roof and exposed brick external walls.

At the time of inspection, JBS&G were not given internal or external access. Therefore, assumptions were made from the road adjacent.

A summary of the key observations made during the HBMS are as follows:

- Assumed asbestos containing fibre cement sheeting identified to the eaves.
- Assumed asbestos containing under cloak verge was identified to gable ends.
- Assumed SMF insulation core was identified to the Rheem hot water unit to the western external wall of the structure.
- Assumed asbestos containing electrical backing boards to fuse boxes.
- Potential for additional asbestos containing materials to internal areas of the structure.

3.16 Angliss Cottage

The Angliss Cottage residential structure located within the northern portion of the site directly east of the Hawkhurst Cottage as shown in **Figure 4.** The structure was not able to be accessed at the time of inspection. A visual assessment of the structure from the road adjacent was permitted by the site owner. The Angliss cottage anecdotally was constructed in the 1980's and is a single storey structure with an attached garage.

The structure comprised a terracotta tiled roof and exposed brick external walls.

At the time of inspection, JBS&G were not given internal or external access. Therefore, assumptions were made from the road adjacent.

A summary of the key observations made during the HBMS are as follows:

- Assumed asbestos containing fibre cement sheeting identified to the eaves.
- Assumed asbestos containing under cloak verge lining was identified to gable ends.
- Assumed asbestos containing electrical backing boards to fuse boxes.
- Potential for additional asbestos containing materials to internal areas of the structure.

- Assumed SMF insulation core to the Rheem hot water unit to the eastern external wall of the structure.

3.17 Soccer Equipment Storage

The Soccer Equipment Storage was located within the east portion of **Figure 5**. Since the initial site inspection, this structure has been removed from the demolition plan. However, to keep in continuity with the samples collected, field notations and analysis the structure has been kept within the report. The structure was broken into three spaces, an equipment storage area, a storage and office space and a grounds keeper chemical store and seed store. The structure comprised a metal roof, a mix of metal and fibre cement walls and concrete slab floor.

A summary of the key observations made during the HBMS are as follows:

- Non-asbestos containing bituminous mastic (SE-A01) was identified to expansion joint of concrete slab.
- Non-asbestos containing fibre cement sheeting (SE-A02) was identified to external eaves.
- Non-asbestos containing fibre cement sheeting (SE-A03) was identified to internal northern dividing wall.
- Lead concentrations within settled dust below the adopted site criteria (SE-LD01, 43 mg/kg) was identified to the floor. This dust was also found not to contain asbestos (SE-AD01).
- All accessible paint systems were screened via XRF spectrometer and classified as non-lead based paints (XRF < 0.01 mg/cm^2).
- No SMF containing materials were identified at the time of inspection.
- Fluorescent light fittings were identified throughout and are suspected to contain PCB capacitors, however, a detailed inspection was not possible due to the supply of live electricity.

3.18 Shipping Containers #1

The Shipping Containers #1 was a group of three shipping containers varying in size, facing north to south located within the eastern portion of the site and is directly east of the soccer equipment storage as shown in **Figure 5**. Since the initial site inspection, this structure has been removed from the demolition plan. However, to keep in continuity with the samples collected, field notations and analysis the structure has been kept within the report. At the time of the inspection there was no access to the internal areas of the three shipping containers observed. The containers are the site contractor's storage areas.

A summary of the key observations made during the HBMS are as follows:

- Non-lead based white paint with red paint undercoat (SEC-L01, <0.01% w/w) was identified to the western most shipping container.
- Lead based red paint with blue paint undercoat (SEC-L02, 0.19% w/w) was identified to the middle shipping container.
- Lead based green paint with red paint undercoat (SEC-L03, 0.13% w/w) was identified to the eastern most shipping container.

3.19 Soccer Bathrooms

The Soccer Bathrooms was located within the northern portion of the site as shown in **Figure 5**. The structure comprised two meeting areas for sports teams, a bathroom, two shower areas and a female bathroom accessed from the northern exterior of the structure. The soccer bathrooms comprised a metal roof, painted Besser block internal and external walls and an exposed concrete floor.

A summary of the key observations made during the HBMS are as follows:

- Non-asbestos containing compressed fibre cement sheeting (SB-A01) was identified to toilet cubical dividers and doors.
- Lead concentrations within settled dust above the adopted site criteria (SB-LD01, 610 mg/kg) was identified atop the bathroom cubical divider. This dust was also found to contain asbestos (SB-AD01) in the form of loose fibre bundles and is classified as friable asbestos. This dust is assumed to be present throughout the building's interior and all cavities.
- All accessible paint systems were screened via XRF spectrometer and classified as non-lead based paints (XRF < 0.01 mg/cm^2)
- Fluorescent light fittings were identified throughout and are suspected to contain PCB capacitors, however, a detailed inspection was not possible due to the supply of live electricity.
- Assumed SMF insulation core was identified to the Rheem 135L hot water unit within covered area to the northern external wall of the structure.

3.20 Old Boys Clubhouse

The Old Boys Clubhouse was located southwest of the Soccer bathrooms and within the north portion of the site as shown in **Figure 5**. The Old Boys Clubhouse comprised a single storey structure with a northern and southern veranda and two internal rooms. The structure has been allowed to fall into disrepair internally with the space mostly utilised for equipment storage. The structure comprised an external tin roof, external timber clad walls and mixed plaster, fibre cement and timber clad walls and particle board and timber flooring.

A summary of the key observations made during the HBMS are as follows:

- Non-asbestos containing fibre cement packers (OB-A01) were identified to northern veranda joist and footing interface.
- Assumed asbestos containing fibre cement packers (as per OB-A02) was identified to the main portion of the structure and southern veranda. There was no access to this area at the time of inspection.
- Asbestos containing fibre cement sheet debris (OB-A02) was identified to ground surfaces around the exterior of the structure and the road surface adjacent.
- Asbestos containing corrugated fibre cement debris (OB-A03) was identified to ground surfaces around the exterior of the structure.
- Asbestos containing electrical backing board (OB-A04) was identified to the fuse box to the southern veranda wall.
- Asbestos containing fibre cement sheeting (OB-A05) was identified to the upper half of the internal walls.

- Assumed asbestos containing fibre cement sheeting (As per OB-A05) was identified to the ceiling lining.
- Lead concentrations within settled dust above the adopted site criteria (OB-LD01, 880mg/kg) was identified to the internal floor of the structure. This dust was also found not to contain asbestos (OB-AD01). This dust is assumed to be throughout all surfaces within the structure.
- Lead based white paint (OB-L01, 4.6% w/w) was identified to external timber surfaces.
- Lead based green paint (OB-L02, 7.0% w/w) was identified to external timber window frames and roof timbers.
- Lead based red paint (OB-L03, 3.1% w/w) was identified to internal timber picture rail and window frame.
- Lead based white paint (OB-L04, 10% w/w) was identified to internal walls and ceiling to timber cladding within the northwest room.
- No PCB containing materials were identified at the time of inspection.
- Assumed SMF insulation core was identified to the Rheem 25L hot water unit stored under a bench within the main room of the structure.
- No internal access was provided to the internal ceiling cavity.

3.21 Demountables

The demountables were located directly west of the Old Boys Clubhouse within the northern portion of the site as shown in **Figure 5.** The demountables were two portable demountable structures orientated in a north to south directions. The eastern demountable was a canteen facility comprising a single room with a kitchenette and beverage storage. The western demountable was locked at the time of inspection and there was no internal access. Both structures comprised sheet metal external walls and roof, the eastern demountable comprised a timber floor with vinyl sheet covering and particle board roof and wall lining.

A summary of the key observations made during the HBMS are as follows:

- Non-asbestos containing beige vinyl sheet (D-A01) was identified to flooring throughout east demountable.
- Lead concentrations within settled dust below the adopted site criteria (D-LD01, 49 mg/kg) was identified to the internal floor of the east demountable. This dust was also found not to contain asbestos (D-AD01).
- All accessible paint systems were screened via XRF spectrometer and classified as non-lead based paints (XRF < 0.01 mg/cm^2)
- Assumed SMF insulation core was identified to the Rheem 25L hot water unit under the kitchenette sink.
- Suspected SMF lining within the demountable walls.
- Fluorescent light fittings were identified throughout and are suspected to contain PCB capacitors, however, a detailed inspection was not possible due to the supply of live electricity.
- There was no internal access to the western demountable the time of inspection.

3.22 Tennis Courts

The Tennis Courts were located to the central portion of the site as shown in **Figure 2** and comprised four fenced in concrete floored tennis courts, a metal seated grandstand area to the west and a covered seating area that comprised a terracotta tile roof, fibre cement ceiling liner and sandstone pillars with a standalone brick framed BBQ to the north.

A summary of the key observations made during the HBMS are as follows:

- Non-asbestos containing compressed fibre cement sheeting (TC-A01) was identified to the backing board of the standalone BBQ.
- Non-asbestos containing fibre cement sheeting (TC-A02) was identified to the ceiling liner of the north covered seating area.
- Non-asbestos containing grey mastic (TC-A03) was identified to the tennis court concrete floor expansion joins.
- Non-asbestos containing grey mortar (TC-A04) was identified to the tennis court edging.
- Asbestos containing fibre cement debris (TC-A05) was identified to the ground surface of the west grandstand area.
- Non-lead based black paint (TC-L01, 0.02% w/w) was identified to the umpire chair and tennis court net frame.
- All accessible paint systems were screened via XRF spectrometer and classified as non-lead based paints (XRF < 0.01 mg/cm^2).
- No PCB containing materials were identified at the time of inspection.
- No SMF containing materials were identified at the time of inspection.
- At the time of inspection there was no access to the ceiling cavity of the north covered seating area.

3.23 Proposed Science, Technology, Engineering, Arts and Maths (STEAM) Building

The area proposed for the construction of the STEAM Building (i.e. is yet to be constructed) was located within the east portion of the site as shown in **Figure 6.** At the time of inspection the area comprised a grass field, concrete footpath and landscape gardens.

A summary of the key observations made during the HBMS are as follows:

- No asbestos containing materials were identified at the time of inspection.
- Non-lead based red paint (SB-L01, 0.02%w/w) was identified to fire hydrant.
- All remaining accessible paint systems were screened via XRF spectrometer and classified as non-lead based paints (XRF < 0.01 mg/cm^2).
- No PCB containing materials were identified at the time of inspection.
- No SMF containing materials were identified at the time of inspection.

3.24 Proposed Day Boy House

The area proposed for the construction of the Day Boy House (i.e. is yet to be constructed) was located within north east portion of the site as shown in **Figure 6.** At the time of inspection the area comprised grass, garden beds and drainage infrastructure.

A summary of the key observations made during the HBMS are as follows:

- Non-asbestos containing compressed fibre cement (DBH-A01) was identified to the preformed walls of the in-ground service pit.
- All remaining accessible paint systems were screened via XRF spectrometer and classified as non-lead based paints (XRF < 0.01 mg/cm^2).
- No SMF containing materials were identified at the time of inspection.
- No PCB containing materials were identified at the time of inspection.

3.25 Proposed Access Road and Car Park

The proposed access road and car park is proposed to start at Mason Drive at west boundary of the site and finish adjacent the soccer fields within the central portion of the site as shown in **Figure 6** and detailed within **Appendix D.** The area currently comprises an existing asphalt and unsealed roadway, grassed/landscaped area and a garage structure associated with an adjacent residence.

A summary of the key observations made during the HBMS are as follows:

- Asbestos containing fibre cement sheeting (R4-A01) was identified to the external walls of the garage structure adjacent the north portion of the proposed road.
- Assumed asbestos containing corrugated fibre cement sheeting was identified to the roof of the garage structure adjacent the north portion of the proposed road.
- Lead based white paint (R4-L01, 0.15% w/w) was identified to the external window frames of the garage structure adjacent the north portion of the proposed road.
- There was no access to the internal areas of the garage structure within the north portion of the proposed road, at this stage it is unknown if this structure will be demolished for the proposed road.
- No SMF containing materials were identified at the time of inspection.
- No PCB containing materials were identified at the time of inspection.

4. Results

4.1 Hazardous Materials

All identified hazardous materials are recorded in the Hazardous Materials Register in **Appendix A** with relevant photographs in **Appendix B**. NATA accredited laboratory analysis reports and chain of custody are provided in **Appendix C**.

4.1.1 Asbestos Containing Materials

ACM were identified by testing at an accredited NATA laboratory for analysis of representative samples and/or visual inspection using the experience of the hazardous materials surveyor.

A summary of the 42 suspected ACM samples collected and results of laboratory testing are provided in **Table 4.1** below.

Table 4.1: ACM Results Summary Table

Sample ID	Lab ID	Sample Location	Results	Observed Condition
K-2 Building				
K2-A01	23-Ap0041341	External, north wall aircon unit – fibre cement sheet packers	No Asbestos Detected	N/A
K2-A02	23-Ap0041342	External, concrete slab and brick wall interface, expansion joint – bituminous mastic	No Asbestos Detected	N/A
K2-A03	23-Ap0041343	External, brick wall expansion joint – beige mastic	No Asbestos Detected	N/A
K2-A04	23-Ap0041344	External, awning ceiling lining – fibre cement sheeting	No Asbestos Detected	N/A
K2-A05	23-Ap0041345	External, under cloak verge – fibre cement sheeting	No Asbestos Detected	N/A
K2-A06	23-Ap0041346	Internal, northern classrooms wet area, flooring – blue vinyl sheet	No Asbestos Detected	N/A
K2-A07	23-Ap0041347	Internal, kickboard for wet areas – black vinyl sheet	No Asbestos Detected	N/A
K2-A08	23-Ap0041348	Internal, teachers kitchenette floor – timber looking vinyl sheet	No Asbestos Detected	N/A
K2-A09	23-Ap0041349	Internal, student bathrooms walls – fibre cement sheeting	No Asbestos Detected	N/A
K2-A10	23-Ap0041350	Ceiling space, joist of roof and brick wall interface packers – fibre cement sheeting	No Asbestos Detected	N/A
K2-A11	23-Ap0041351	External, gable ends – fibre cement cladding	No Asbestos Detected	N/A
K2-A12	23-Ap0041352	Internal, southwest classrooms wet area, floor – beige vinyl sheet	No Asbestos Detected	N/A
K2-A13	23-Ap0041353	Internal, wet area/play area east classrooms, floor – red vinyl sheet	No Asbestos Detected	N/A
K-2 Playground Area				
PG-A01	23-Jl0030996	External, sandstone retaining wall – mortar	No Asbestos Detected	N/A
Performing Arts Refurbishment				
PA-A01	23-Jl0030987	External, entrance sandstone blocks – mastic	No Asbestos Detected	N/A
PA-A02	23-Jl0030988	External, exposed brick wall expansion joins – beige mastic	No Asbestos Detected	N/A
PA-A03	23-Jl0030989	External, awning ceiling liner – fibre cement sheeting	No Asbestos Detected	N/A
PA-A04	23-Jl0030990	External, terracotta roof under-cloak verge – fibre cement sheeting	No Asbestos Detected	N/A
PA-A05	23-Jl0030991	External, concrete footpath expansion joins – bituminous mastic	No Asbestos Detected	N/A
PA-A06	23-Jl0030992	Internal, kitchenette floor – beige vinyl sheet	No Asbestos Detected	N/A
Shed 1				
S1-A01	23-Ap0041359	External, window caulking – putty	No Asbestos Detected	N/A

Sample ID	Lab ID	Sample Location	Results	Observed Condition
Shed 2				
No material samples were taken at the time of inspection.				
Shed 3				
S3-A01	23-Ap0041370	External, window caulking – white mastic	No Asbestos Detected	N/A
Shed 4				
S4-A01	23-Jl0030977	External, cladding – fibre cement sheeting	No Asbestos Detected	N/A
S4-A02	23-Jl0030978	External, window caulking – mastic	No Asbestos Detected	N/A
S4-A03	23-Jl0030979	Internal, wall – fibre cement sheeting	**Chrysotile and Crocidolite Asbestos Detected**	Good
Shed 5				
No material samples were taken at the time of inspection.				
Out House				
No material samples were taken at the time of inspection.				
Chicken Coop				
No material samples were taken at the time of inspection.				
Sheep Shearing Shed				
No material samples were taken at the time of inspection.				
Green House				
No material samples were taken at the time of inspection.				
Grey Shed				
No material samples were taken at the time of inspection.				
Seed Shed				
No material samples were taken at the time of inspection.				
Hawkhurst Cottage				
No material samples were taken at the time of inspection.				
Angliss Cottage				
No material samples were taken at the time of inspection.				
Hawkhurst Cottage				
No material samples were taken at the time of inspection.				
Soccer Equipment Storage				
SE-A01	23-Ap0041390	External, concrete expansion joint – bituminous mastic	No Asbestos Detected	N/A
SE-A02	23-Ap0041391	External, eaves – fibre cement sheeting	No Asbestos Detected	N/A
SE-A03	23-Ap0041392	Internal, northern dividing wall – fibre cement sheeting	No Asbestos Detected	N/A
Shipping Containers #1				
No material samples were taken at the time of inspection.				
Soccer Bathrooms				
SB-A01	23-Ap0041375	Internal, bathroom cubical dividing wall and door – compressed fibre cement sheeting	No Asbestos Detected	N/A
Old Boys Clubhouse				
OB-A01	23-Ap0041379	Northern veranda, joist and footing interface – fibre cement packers	No Asbestos Detected	N/A
OB-A02	23-Ap0041380	External, ground surface around structure – fibre cement debris	**Chrysotile Asbestos Detected**	Non-friable
OB-A03	23-Ap0041381	External, ground surface around structure – corrugated fibre cement debris	**Chrysotile and Amosite Asbestos Detected**	Non-friable
OB-A04	23-Ap0041382	External, southern veranda wall fuse box – electrical backing board	**Chrysotile Asbestos Detected**	Non-friable
OB-A05	23-Ap0041383	Internal, upper half of the wall – fibre cement sheeting	**Chrysotile Asbestos Detected**	Non-friable
Demountables				
D-A01	23-Ap0041378	Internal, east demountable floor – beige vinyl sheet	No Asbestos Detected	N/A
Tennis Courts				
TC-A01	23-Jl0030970	External, backing board to BBQ – compressed fibre cement sheeting	No Asbestos Detected	N/A

Sample ID	Lab ID	Sample Location	Results	Observed Condition
TC-A02	23-JI0030971	Internal, north covered seating area ceiling liner – fibre cement sheeting	No Asbestos Detected	N/A
TC-A03	23-JI0030972	External, tennis court concrete expansion join – grey mastic	No Asbestos Detected	N/A
TC-A04	23-JI0030973	External, tennis court concrete edging – grey mortar	No Asbestos Detected	N/A
TC-A05	23-JI0030974	External, ground surface of west grandstand area – fibre cement debris	**Chrysotile Asbestos detected**	Poor
Proposed STEAM Building				
No material samples were taken at the time of inspection.				
Proposed Day Boy House				
BDH-A01	23-JI0030969	External, preformed walls of service pit – compressed fibre cement	No Asbestos Detected	N/A
Proposed Access Road and Car Park				
R4-A01	23-JI0030985	External, walls of garage structure adjacent north part of road – fibre cement sheeting	**Chrysotile Asbestos detected**	Fair

4.1.2 Asbestos Containing Dust

ACD were identified by testing at an accredited NATA laboratory for analysis of representative samples.

A summary of the 12 suspected ACD samples collected and results of the laboratory testing are provided in **Table 4.2** below.

Table 4.2: ACD Results Summary Table

Sample ID	Lab ID	Sample Location	Results	Observed Condition
K-2 Building				
K2-AD01	23-Ap0041354	Ceiling cavity to the north-south portion – settled dust	No Asbestos Detected	N/A
K2-AD02	23-Ap0041355	Ceiling cavity above student bathroom – settled dust	No Asbestos Detected	N/A
K-2 Playground Area				
No dust samples were collected at the time of inspection				
Performing Arts Refurbishment				
PA-AD01	23-JI0030993	Ceiling cavity – settled dust	No Asbestos Detected	N/A
Shed 1				
S1-AD01	23-Ap0041361	Floor – settled dust	No Asbestos Detected	N/A
Shed 2				
S2-AD01	23-Ap0041365	Floor – settled dust	No Asbestos Detected	N/A
Shed 3				
S3-AD01	23-Ap0041371	Floor – settled dust	No Asbestos Detected	N/A
Shed 4				
S4-AD01	23-JI0030980	Floor – settled dust	No Asbestos Detected	N/A
Shed 5				
No dust samples were collected at the time of inspection				
Out House				
OH-AD01	23-Ap0041373	Floor – settled dust	No Asbestos Detected	N/A
Chicken Coop				
No dust samples were collected at the time of inspection				
Sheep Shearing Shed				
No dust samples were collected at the time of inspection				
Green House				
No dust samples were collected at the time of inspection				
Grey Shed				
No dust samples were collected at the time of inspection				
Seed Shed				
No dust samples were collected at the time of inspection				

Sample ID	Lab ID	Sample Location	Results	Observed Condition
Hawkhurst Cottage				
No dust samples were collected at the time of inspection				
Angliss Cottage				
No dust samples were collected at the time of inspection				
Soccer Equipment Storage				
SE-AD01	23-Ap0041393	Floor – settled dust	No Asbestos Detected	N/A
Shipping Containers #1				
No dust samples were collected at the time of inspection				
Soccer Bathrooms				
SB-AD01	23-Ap0041376	Bathroom cubical partitions – settled dust	**Chrysotile asbestos detected in the form of loose fibre bundles**	Friable
Old Boys Clubhouse				
OB-AD01	23-Ap0041383	Floor – settled dust	No Asbestos Detected	N/A
Demountables				
D-AD01	23-Ap0041401	Floor – settled dust	No Asbestos Detected	N/A
Tennis Courts				
No dust samples were collected at the time of inspection				
Proposed STEAM Building				
No dust samples were collected at the time of inspection				
Proposed Day Boy House				
No dust samples were collected at the time of inspection				
Proposed Access Road and Car Park				
No dust samples were collected at the time of inspection				

4.1.3 Lead Containing Dust

LCD were identified by testing at an accredited NATA laboratory for analysis of representative samples.

A summary of the 12 suspected LCD samples collected and results of the laboratory testing for lead are provided in **Table 4.3** below.

Table 4.3: LCD Results Summary Table

Sample ID	Lab ID	Sample Location	Results	Observed Condition
K-2 Building				
K2-LD01	S23-Ap0041356	Ceiling cavity to the north-south portion – settled dust	63 mg/kg	N/A
K2-LD02	S23-Ap0041357	Ceiling cavity above student bathroom – settled dust	21 mg/kg	N/A
K-2 Playground Area				
No dust samples were collected at the time of inspection				
Performing Arts Refurbishment				
PA-LD01	S23-JI0030994	Ceiling cavity – settled dust	97 mg/kg	N/A
Shed 1				
S1-LD01	S23-Ap0041362	Floor – settled dust	**3,300 mg/kg**	Poor
Shed 2				
S2-LD01	S23-Ap0041366	Floor – settled dust	**22,000 mg/kg**	Poor
Shed 3				
S3-LD01	S23-Ap0041372	Floor – settled dust	**1,500 mg/kg**	Poor
Shed 4				
S4-LD01	S23-JI0030981	Floor – settled dust	60 mg/kg	N/A
Shed 5				
No dust samples were collected at the time of inspection				
Out House				
OH-LD01	S23-Ap0041374	Floor – settled dust	**1,200 mg/kg**	Poor

Sample ID	Lab ID	Sample Location	Results	Observed Condition
Chicken Coop				
No dust samples were collected at the time of inspection				
Sheep Shearing Shed				
No dust samples were collected at the time of inspection				
Green House				
No dust samples were collected at the time of inspection				
Grey Shed				
No dust samples were collected at the time of inspection				
Seed Shed				
No dust samples were collected at the time of inspection				
Hawkhurst Cottage				
No dust samples were collected at the time of inspection				
Angliss Cottage				
No dust samples were collected at the time of inspection				
Soccer Equipment Storage				
SE-LD01	S23-Ap0041394	Floor – settled dust	43 mg/kg	N/A
Shipping Containers #1				
No dust samples were collected at the time of inspection				
Soccer Bathrooms				
SB-LD01	S23-Ap0041377	Floor – settled dust	**610 mg/kg**	Poor
Old Boys Clubhouse				
OB-LD01	S23-Ap0041385	Floor – settled dust	**880 mg/kg**	Poor
Demountables				
D-LD01	S23-Ap0041402	Floor – settled dust	49 mg/kg	N/A
West Soccer Field Residence				
No dust samples were collected at the time of inspection				
Tennis Courts				
No dust samples were collected at the time of inspection				
Proposed STEAM Building				
No dust samples were collected at the time of inspection				
Proposed Day Boy House				
No dust samples were collected at the time of inspection				
Proposed Access Road and Car Park				
No dust samples were collected at the time of inspection				

4.1.4 Lead Based Paints

Lead paints were identified at an accredited NATA laboratory for analysis of representative samples.

A summary of the 21 suspected lead paint samples collected and results of laboratory testing for lead are provided in **Table 4.4** below.

Table 4.4: Lead Paint Results Summary Table

Sample ID	Lab ID	Sample Location	Results	Observed Condition
K-2 Building				
K2-L01	S23-Ap0041358	External, downpipes – grey paint	0.02% w/w	N/A
K-2 Playground Area				
No paint samples were collected at the time of inspection				
Performing Arts Refurbishment				
PA-L01	S23-JL0030995	External, downpipes – grey paint	<0.01% w/w	N/A
Shed 1				
S1-L01	S23-Ap0041360	External timber windows – white paint	**19% w/w**	Poor
Shed 2				
S2-L01	S23-Ap0041363	External, corrugated metal walls – cream paint	**23% w/w**	Poor
S2-L02	S23-Ap0041364	External, window – white paint with green paint undercoat	**35% w/w**	Poor

Sample ID	Lab ID	Sample Location	Results	Observed Condition
Shed 3				
S3-L01	S23-Ap0041367	External, walls – cream paint	**34% w/w**	Poor
S3-L02	S23-Ap0041368	External windows, door and frame – green paint with white paint overcoat	**2.8% w/w**	Poor
S3-L03	S23-Ap0041369	Internal walls – white paint with blue paint undercoat	**8.3% w/w**	Poor
Shed 4				
S4-L01	S23-JL0030982	External, wall – white paint	**2.4% w/w**	Poor
S4-L02	S23-JL0030983	External, window frame – white paint	**15% w/w**	Poor
Shed 5				
S5-L01	S23-JL0030984	External, cattle/sheep crush – yellow paint	<0.01% w/w	N/A
Out House				
No paint samples were collected at the time of inspection				
Chicken Coop				
No paint samples were collected at the time of inspection				
Sheep Shearing Shed				
No paint samples were collected at the time of inspection				
Green House				
No paint samples were collected at the time of inspection				
Grey Shed				
No paint samples were collected at the time of inspection				
Seed Shed				
No paint samples were collected at the time of inspection				
Hawkhurst Cottage				
No paint samples were collected at the time of inspection				
Angliss Cottage				
No paint samples were collected at the time of inspection				
Soccer Equipment Storage				
No paint samples were collected at the time of inspection				
Shipping Containers #1				
SEC-L01	S23-Ap0041395	Shipping container A – red paint	<0.01% w/w	N/A
SEC-L02	S23-Ap0041396	Shipping container B – blue paint	**0.19% w/w**	Fair
SEC-L03	S23-Ap0041397	Shipping container C – red paint	**0.13% w/w**	Fair
Soccer Bathrooms				
No paint samples were collected at the time of inspection				
Old Boys Clubhouse				
OB-L01	S23-Ap0041386	External, timber surfaces – white paint	**4.6% w/w**	Fair
OB-L02	S23-Ap0041387	External, timber window frames – green paint	**7.0% w/w**	Fair
OB-L03	S23-Ap0041388	Internal, picture rail – red paint	**3.1% w/w**	Fair
OB-L04	S23-Ap0041389	Internal northwest room, walls and ceiling timber cladding – white paint	**10% w/w**	Fair
Demountables				
No paint samples were collected at the time of inspection				
Tennis Courts				
TC-L01	S23-JI0030975	Umpire chair – black paint	0.02% w/w	N/A
Proposed STEAM Building				
SB-L01	S23-JI0030976	Fire hydrant – red paint	0.02% w/w	N/A
Proposed Day Boy House				
No paint samples were collected at the time of inspection				
Proposed Access Road and Car Park				
R4-L01	S23-JI0030986	External, window frames to north garage structure – white paint	**0.15% w/w**	Poor

4.1.5 Polychlorinated Biphenyls

No PCB containing items were suspected or identified within Shed 1, Shed 2, Shed 3, Shed 4, Shed 5, Out House, Chicken Coop, Green House, Grey Shed, Seed Shed, Old Boys Clubhouse, Tennis Courts, Proposed STEAM building, Proposed Day Boy House or Proposed Access Road and Car Park.

Detailed inspection of capacitors in light fittings could not be undertaken due to live electricity supply in the K-2 Building and the Performing Arts Refurbishment, however, given the age of the buildings, and the modern appearance of the fluorescent light fitting, PCB containing capacitors are not suspected to be present.

Detailed inspection of capacitors in light fittings could not be undertaken due to live electricity supply in the following structures:

- Soccer Equipment Storage;
- Soccer Bathrooms; and
- Demountables.

Therefore, PCB containing capacitors are assumed to be present within the older light fittings present throughout these inaccessible areas of the nominated structures.

4.1.6 Synthetic Mineral Fibres

Suspected SMF materials were identified in various forms throughout the site via visual inspection using the experience of the hazardous materials surveyor. No SMF materials were sampled at the time of inspection. Full details of all identified SMF materials are provided in the Hazardous Materials Register (**Appendix A**). The typical forms of SMF identified are summarised below:

- Internal insulation to various hot water systems;
- Insulation to air conditioning ducting;
- Insulation batts within ceiling cavities;
- Insulation to walls; and
- Insulation to roof sarking.

4.2 Inaccessible Areas

Due to the operational status of the site at the time of inspection, there was limited intrusive sampling and investigations techniques could be used. Prior to demolition it is recommended that a pre-demolition hazardous building materials is undertaken across all structures.

In addition to the above, there were a number of inaccessible areas at the time of inspection as outlined below:

- Shed 4 – There was no inbuilt access to the ceiling cavity, prior to demolition it is recommended that an access hatch is created, and the cavity is inspected and any suspected hazardous materials are sampled by a suitably qualified competent person prior to any works commencing.
- Angliss Cottage – There was no access to the structure at the time of inspection, this building was only observed form the road adjacent. Prior to demolition an intrusive HBMS recommended, the structure inspected and any suspected hazardous materials are sampled by a suitably qualified competent person prior to any works commencing.
- Shipping Containers #1 – There was no internal access to the three shipping containers, prior to demolition it is recommended the internal area is inspected and any suspected hazardous materials are sampled by a suitably qualified competent person prior to any works commencing.

- Old Boys Club House – There was no inbuild access to the ceiling cavity, prior to demolition it is recommended that an access hatch is created, and the cavity is inspected and any suspected hazardous materials are sampled by a suitably qualified competent person prior to any works commencing.
- Demountables – There was no internal access to the western demountable the time of inspection, prior to demolition it is recommended the internal area is inspected and any suspected hazardous materials are sampled by a suitably qualified competent person prior to any works commencing.
- Tennis Court – There was no inbuilt access to the ceiling cavity of the north covered seating area, prior to demolition it is recommended that an access hatch is created, and the cavity is inspected and any suspected hazardous materials are sampled by a suitably qualified competent person prior to any works commencing.
- Proposed Road and Car Park – There was no access to the internal portion of the north garage structure at the time of inspection. Prior to demolition an intrusive HBMS recommended, the structure inspected and any suspected hazardous materials are sampled by a suitably qualified competent person prior to any works commencing.

5. Hazardous Materials Removal Works

Following the receipt of results from the completed HBMS as detailed in previous sections, several identified hazardous materials were considered to pose an unacceptable exposure risk to site occupants, workers and visitors in their current condition.

The identified hazardous materials that were considered to pose an unacceptable exposure risk were identified as:

- Friable asbestos impacted dusts within the Soccer Bathrooms; and
- ACM debris to ground surfaces to the western extent of the Tennis Courts West Grandstand.

As a result of these findings, hazardous materials removal works were implemented by the client to manage the potential exposure risks identified. A summary of the completed works is detailed following.

5.1 Friable Asbestos Impacted Dusts – Soccer Bathrooms

Friable asbestos impacted dusts were removed from the Soccer Bathrooms internal areas on 26 and 27 February 2024 by RMA Contracting Pty Ltd, a Class A asbestos removal contractor (AD211455).

All friable asbestos removal works were supervised by Aaron Smith, one of JBS&G's experienced hazardous materials consultants and a SafeWork NSW Licensed Asbestos Assessor (LAA 001 001).

All asbestos removal works were conducted in accordance with WHS 2011, WHS 2017 and SWNSW 2022a.

Following the completion of the asbestos removal works, asbestos clearance certification was conducted by the supervising LAA to confirm the successful completion of the works. An asbestos clearance certificate was issued by Aaron Smith on 29 February 2024 to confirm that the asbestos removal works were successfully completed and that the Soccer Bathrooms were suitable for re-occupation under normal site conditions.

Further detail on the completed friable asbestos removal works completed in the Soccer Bathrooms structure is included in the asbestos clearance certificate which is included as **Attachment E** to this report.

5.2 ACM Debris to Ground Surfaces – Tennis Courts West Grandstand

Visible occurrences of ACM were identified to ground surfaces to the west of the Tennis Courts, within the West Grandstand that were proposed to be removed by hand by RMA Contracting Pty Ltd, in conjunction with the Soccer Bathrooms asbestos removal works (refer **Section 5.1**). Upon the initial program of asbestos removal, additional occurrences of buried ACM were observed, following which, further investigation identified both non-friable and friable asbestos impacted soils to ground surfaces and to an approximate depth of 0.2 m below ground surface along the western extent of the Tennis Couts, associated with the West Grandstand. Details of the completed additional investigations are included in the Summary of Works letter included as **Attachment F.**

TKS representatives requested a program of asbestos removal be completed across the identified impacted area to remove the identified friable and non-friable impacted soils. The asbestos removal works were completed on 17, 18 and 22 April 2024 by Auswide Operations Pty Ltd, a Class A asbestos removal contractor (212715).

All asbestos removal works were supervised by Robert Sharpsmith, one of JBS&G's experienced hazardous materials consultants and a SafeWork NSW Licensed Asbestos Assessor (LAA 001 343).

All asbestos removal works were conducted in accordance with WHS 2011, WHS 2017 and SWNSW 2022a.

Following the completion of the asbestos removal works, validation soil sampling and asbestos clearance certification was conducted by the supervising LAA to confirm the successful completion of the works. An asbestos clearance certificate was subsequently issued by Robert Sharpsmith on 23 April 2024 to confirm that the asbestos removal works were successfully completed and that the west extent of the Tennis Courts associated with the West Grandstand were suitable for re-occupation under normal site conditions.

Further detail on the completed asbestos impacted soil removal works completed to the west extent of the Tennis Courts associated with the West Grandstand is included in the asbestos clearance certificate which is included as **Attachment F** to this report.

6. Conclusions and Recommendations

Based on the scope of this assessment, with consideration to the completed hazardous materials removal works detailed in **Section 5** and with reference to the limitations included in **Section 7**, the following conclusions are made with respect to the Hazardous Materials Survey completed.

6.1 Hazardous Materials

Identified and suspected hazardous building materials have been identified at the site as a result of visual identification and laboratory analysis as detailed in the Hazardous Materials Register (**Appendix A**).

In accordance with the *Work Health and Safety Regulation* (2017), a person in control of a business or undertaking (PCBU) must keep a copy of the site hazardous materials register (**Appendix A**) and make it available to any staff, visitors (where relevant) or contractors when requested.

Prior to demolition of the structures identified within this report, it is recommended that a Hazardous Material Removal Works Plan (HMRWP) or similar is developed in conjunction with the engaged demolition contractor. Asbestos Materials

6.1.1 Non-Friable Asbestos Containing Materials

The identified non-friable asbestos hazards across the assessment area must be appropriately managed for the ongoing operation of the site in accordance with the requirements of SWNSW 2022b, or, removed in accordance with the requirements of SWNSW 2022a prior to any demolition works commencing.

If the identified asbestos hazards are proposed to remain in their current state at the site, the following recommendations are made:

- All identified and suspected ACM are to be recorded on a site Hazardous Building Materials Register in accordance with Clause 425 of the Work Health and Safety Regulation (2017) with a register kept on-site and managed and updated under the responsibility of the site controller/owner (prepared as part of these HBMS works and included as **Appendix A**);
- Appropriate warning labels shall be applied to occurrences of non-friable asbestos materials in accordance with SWNSW 2022b; and
- The Hazardous Materials Register (**Appendix A**) must be updated following any changes to the condition of ACM identified within the register.

Should any disturbance or removal of identified or suspected hazardous building materials be required, an appropriately experienced hazardous materials consultant should be engaged prior to commencing works to provide advice and assist with the planning, preparation and completion of the works. All removal works must be undertaken in accordance with the WHS regulations and code of practice in force at the time.

6.1.2 Lead Containing Dust

Elevated levels of lead in dust above the adopted site criteria were identified at the site. The elevated levels of lead in settled dust to the floor surface of Shed 1, Shed 2, Shed 3, Out House and Old Boys Clubhouse require appropriate targeted management.

A suitably experienced hazardous materials removal contractor should be engaged to remove the lead containing dust or ensure each structure is restricted from general access as soon as possible to reduce the potential for lead dust exposure. Appropriate warning signage should be installed to access/egress points of those areas where the elevated lead dust was identified.

Prior to demolition of the structures, a suitably experienced hazardous materials removal contractor should be engaged to remove the lead containing dust and any dust impacted materials in accordance with AS4361.2-2017 prior to the commencement of any demolition works.

Should the lead containing dust remain on site, a lead management plan or similar shall be prepared detailing the procedures and requirements to reduce the potential for lead dust exposure if site workers are required to access the hazardous areas.

6.1.3 Lead Based Paints

The lead based paints, as identified in Hazardous Materials Register (**Appendix A**), were observed in a poor to good condition and should be managed in accordance with the AS4361.2-2017. Where peeling or deteriorated they should be removed under controlled conditions by an experienced contractor prior to demolition. Stable lead based paints adhered to building fabric can be disposed as general solid waste in accordance with NSW EPA 2014 provided care is taken to minimise any potential for paint flakes to be dispersed onto ground surfaces and building and demolition waste is not proposed to be recycled.

Where building and demolition wastes are proposed to be recycled that are impacted by lead paints, the lead paints must be stripped prior to demolition works commencing. Any removed lead paint waste must be disposed of as hazardous waste in accordance with NSW EPA 2014.

6.1.4 Polychlorinated Biphenyls

Detailed inspection of capacitors in light fittings could not be undertaken due to the electricity supply to the fittings being active for the following structures, Soccer Equipment Storage, Soccer Bathrooms, Demountables. Therefore, PCB containing capacitors are assumed to be present within the older light fittings throughout the site.

All old fluorescent light fittings throughout the site are to be treated as containing PCB capacitors unless further investigation confirms otherwise. These light fittings should be re-inspected once safe access can be provided to confirm the presence or absence of PCB capacitors.

Detailed inspection of capacitors in light fittings could not be undertaken due to the electricity supply to the fittings being active in the K-2 Building. Due to the age of the building, and the modern appearance of the fluorescent light fitting, PCB containing capacitors are not suspected to be present.

6.1.5 Synthetic Mineral Fibres

The synthetic mineral fibres encountered during this inspection were generally contained and deemed to be low risk. A program of periodic inspection should be undertaken to confirm the materials condition for the future operation of the site.

6.2 Inaccessible Areas

Areas inaccessible during the current HBMS should be inspected by a suitably qualified competent person prior to any future refurbishment or demolition works commencing.

6.3 Unexpected Finds

Any materials deemed to be consistent with those detailed in the Hazardous Materials Register that have not been previously identified should be assumed to have the same content and be treated accordingly.

Should any additional suspected hazardous materials be observed during or prior to demolition works, works should cease until a suitably qualified occupational hygienist can assess the suspected hazardous material and provide appropriate recommendations for management and/or removal.

7. Limitations

This report has been prepared for use by the client who has commissioned the works in accordance with the project brief only, and has been based in part on information obtained from the client and other parties.

The advice herein relates only to this project and all results conclusions and recommendations made should be reviewed by a competent person with experience in environmental investigations, before being used for any other purpose.

JBS&G accepts no liability for use or interpretation by any person or body other than the client who commissioned the works. This report should not be reproduced without prior approval by the client, or amended in any way without prior approval by JBS&G, and should not be relied upon by other parties, who should make their own enquiries.

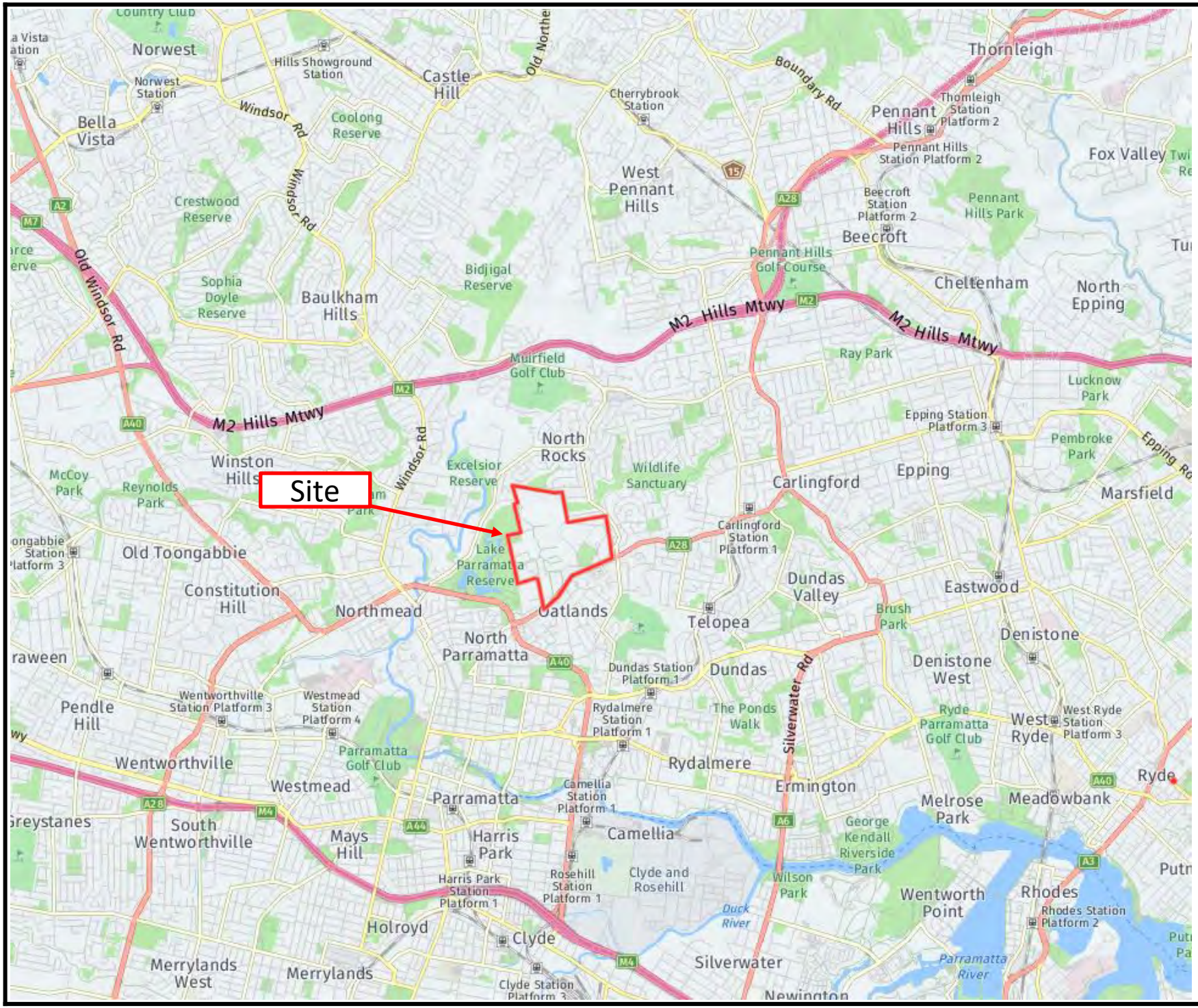
Sampling and chemical analysis of environmental media is based on appropriate guidance documents made and approved by the relevant regulatory authorities. Conclusions arising from the review and assessment of environmental data are based on the sampling and analysis considered appropriate based on the regulatory requirements.

Limited sampling and laboratory analyses were undertaken as part of the investigations undertaken, as described herein. Ground conditions between sampling locations and media may vary, and this should be considered when extrapolating between sampling points. Chemical analytes are based on the information detailed in the site history. Further chemicals or categories of chemicals may exist at the site, which were not identified in the site history and which may not be expected at the site.

Changes to the subsurface conditions may occur subsequent to the investigations described herein, through natural processes or through the intentional or accidental addition of contaminants. The conclusions and recommendations reached in this report are based on the information obtained at the time of the investigations.

This report does not provide a complete assessment of the environmental status of the site, and it is limited to the scope defined herein. Should information become available regarding conditions at the site including previously unknown sources of contamination, JBS&G reserves the right to review the report in the context of the additional information.

Figures



Legend:

- Approximate Site Boundary

JBS&G

Job No: 64520

Client: TSA Management

Version: Rev 4 | Date: 29/04/2024

Drawn By: RS | Checked By: MS

The Kings School

87-129 Pennant Hills Road
North Parramatta, NSW

SITE LOCATION

FIGURE 1

Legend:

- Approximate Site Boundary
- Approximate Structure Outline
- Zoomed in area

JBS&G

Job No: 64520

Client: TSA Management

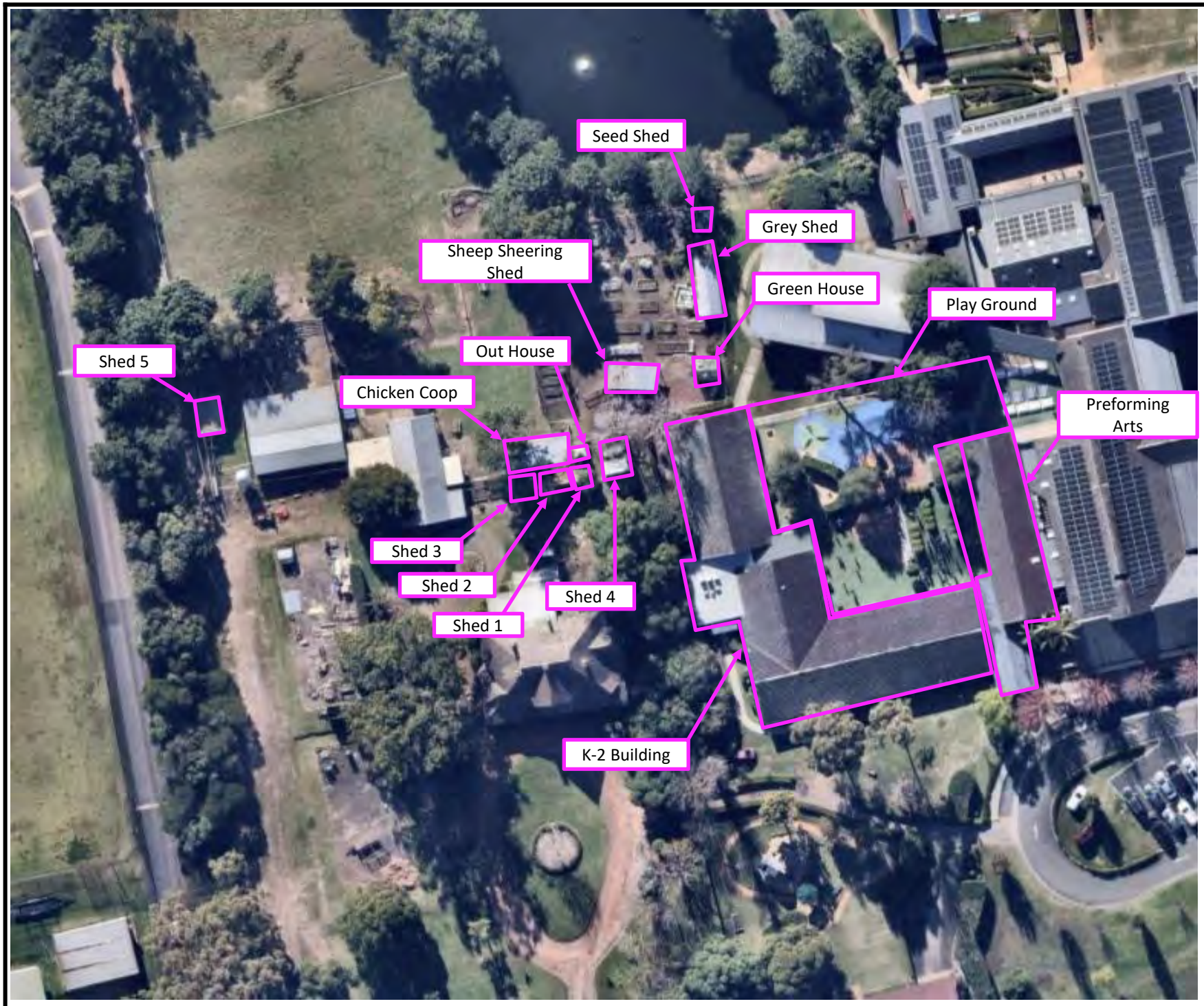
Version: Rev 4	Date: 29/04/2024
Drawn By: RS	Checked By: MS

The Kings School

87-129 Pennant Hills Road
North Parramatta, NSW

STRUCTURES FOR DEMOLISHION

FIGURE 2



Legend:

- Approximate Site Boundary
- Approximate Structure Outline

JBS&G

Job No: 64520

Client: TSA Management

Version: Rev 4	Date: 29/04/2024
Drawn By: RS	Checked By: MS

The Kings School

87-129 Pennant Hills Road
North Parramatta, NSW

AREA 1

FIGURE 3

Legend:

- Approximate Site Boundary
- Approximate Structure Outline

JBS&G

Job No: 64520

Client: TSA Management

Version: Rev 4	Date: 29/04/2024
Drawn By: RS	Checked By: MS

The Kings School

87-129 Pennant Hills Road
North Parramatta, NSW

AREA 2

FIGURE 4

Legend:

- Approximate Site Boundary
- Approximate Structure Outline

JBS&G

Job No: 64520	
Client: TSA Management	
Version: Rev 4	Date: 29/04/2024
Drawn By: RS	Checked By: MS

The Kings School

87-129 Pennant Hills Road
North Parramatta, NSW

AREA 3

FIGURE 5

Legend:

- Approximate Site Boundary
- Approximate Structure Outline

JBS&G

Job No: 64520

Client: TSA Management

Version: Rev 4	Date: 29/04/2024
Drawn By: RS	Checked By: MS

The Kings School

87-129 Pennant Hills Road North Parramatta, NSW

PROPOSED LOCATIONS WITHOUT EXISTING STRUCTURES

FIGURE 6

Appendix A Hazardous Materials Register

Hazardous Materials Register (Rev 4)
K-2 Building
87-129 Pennant Hills Road, North Parramatta NSW 2151
Date of Production – 29th April 2024

JBS&G SAMPLE NO.	LOCATION	MATERIAL DESCRIPTION	PHOTO NUMBER	ACCESSIBLE AREA?	FRIABILITY	ANALYTICAL RESULT	MATERIAL CONDITION	APPROX. QUANTITY	ACTION REQUIRED	DATE OF LAST INSPECTION (INCL. COMPANY NAME AND INITIALS)	DATE OF CONTROL ACTION &/OR REMOVAL
Asbestos Containing Materials (ACM)											
No asbestos containing materials were identified at the time of inspection										18/04/2023 JBS&G RS & JG	
No Asbestos Detected											
K2-A01	External north wall, air conditioning unit feet – packers	Fibre cement sheeting	2	Yes	-	No Asbestos Detected	-	-	No further action required	18/04/2023 JBS&G RS & JG	
K2-A02	External, brick wall and concrete slab interface – expansion joint	Bituminous mastic	3	Yes	-	No Asbestos Detected	-	-	No further action required	18/04/2023 JBS&G RS & JG	
K2-A03	External, brick wall – expansion joint	Beige mastic	4	Yes	-	No Asbestos Detected	-	-	No further action required	18/04/2023 JBS&G RS & JG	
K2-A04	External awning – ceiling lining	Fibre cement sheeting	5	Yes	-	No Asbestos Detected	-	-	No further action required	18/04/2023 JBS&G RS & JG	
As Per K2-A04	External, eaves	Fibre cement sheeting	6	Yes	-	No Asbestos Detected	-	-	No further action required	18/04/2023 JBS&G RS & JG	
K2-A05	External, under cloak verge	Fibre cement sheeting	7	Yes	-	No Asbestos Detected	-	-	No further action required	18/04/2023 JBS&G RS & JG	
K2-A06	Internal, northern classroom wet area – floor	Blue vinyl sheeting	8	Yes	-	No Asbestos Detected	-	-	No further action required	18/04/2023 JBS&G RS & JG	
K2-A07	Internal, throughout all wet area – kick board	Black vinyl sheeting	8	Yes	-	No Asbestos Detected	-	-	No further action required	18/04/2023 JBS&G RS & JG	
K2-A08	Internal, teachers kitchenette – floor	Timber look vinyl sheet	9	Yes	-	No Asbestos Detected	-	-	No further action required	18/04/2023 JBS&G RS & JG	
As Per K2-A08	Internal, teachers bathroom – floor	Timber look vinyl sheet	-	Yes	-	No Asbestos Detected	-	-	No further action required	18/04/2023 JBS&G RS & JG	
K2-A09	Internal, student bathroom – walls	Fibre cement sheeting	10	Yes	-	No Asbestos Detected	-	-	No further action required	18/04/2023 JBS&G RS & JG	
K2-A10	Internal, ceiling cavity roof joist and brick wall interface – packers	Fibre cement sheeting	11	Yes	-	No Asbestos Detected	-	-	No further action required	18/04/2023 JBS&G RS & JG	
As Per K2-A10	Internal, ceiling cavity – loose debris	Fibre cement sheeting	11	Yes	-	No Asbestos Detected	-	-	No further action required	18/04/2023 JBS&G RS & JG	

JBS&G SAMPLE NO.	LOCATION	MATERIAL DESCRIPTION	PHOTO NUMBER	ACCESSIBLE AREA?	FRIABILITY	ANALYTICAL RESULT	MATERIAL CONDITION	APPROX. QUANTITY	ACTION REQUIRED	DATE OF LAST INSPECTION (INCL. COMPANY NAME AND INITIALS)	DATE OF CONTROL ACTION &/OR REMOVAL
K2-A11	External, gable ends	Fibre cement cladding	12	Yes	-	No Asbestos Detected	-	-	No further action required	18/04/2023 JBS&G RS & JG	
K2-A12	Internal, southwest classroom wet area – floor	Beige vinyl sheet	13	Yes	-	No Asbestos Detected	-	-	No further action required	18/04/2023 JBS&G RS & JG	
K2-A13	Internal, east wing classroom wet area and playroom – floor	Red vinyl sheet	14	Yes	-	No Asbestos Detected	-	-	No further action required	18/04/2023 JBS&G RS & JG	
K2-AD01	Internal, north-south portion of building – ceiling cavity	Settled dust	-	Yes	-	No Asbestos Detected	-	-	No further action required	18/04/2023 JBS&G RS & JG	
K2-AD02	Internal, above student bathrooms – ceiling cavity	Settled dust	-	Yes	-	No Asbestos Detected	-	-	No further action required	18/04/2023 JBS&G RS & JG	
Lead Containing Dust											
K2-LD01	Internal, north-south portion of building – ceiling cavity	Settled dust	-	Yes	-	63 mg/kg	-	-	No further action required	18/04/2023 JBS&G RS & JG	
K2-LD02	Internal, above student bathrooms – ceiling cavity	Settled dust	-	Yes	-	21 mg/kg	-	-	No further action required	18/04/2023 JBS&G RS & JG	
Lead Based Paints											
No lead based paints identified at the time of inspection										18/04/2023 JBS&G RS & JG	
Non-Lead Based Paints											
K2-L01	External – downpipes	Grey paint	15	Yes	-	0.02% w/w	-	-	No further action required	18/04/2023 JBS&G RS & JG	
XRF	Remaining surfaces throughout the internal and external of the structure	Various paint systems	-	Yes	-	<0.01 mg/cm^2	-	-	No further action required	18/04/2023 JBS&G RS & JG	
Polychlorinated Biphenyls (PCBs)											
Fluorescent light fittings were observed throughout the building, however, based on the age of construction (2002) and the new appearance of the light fittings, these light fittings are not suspected to contain PCB containing capacitors.									No further action required	18/04/2023 JBS&G RS & JG	

JBS&G SAMPLE NO.	LOCATION	MATERIAL DESCRIPTION	PHOTO NUMBER	ACCESSIBLE AREA?	FRIABILITY	ANALYTICAL RESULT	MATERIAL CONDITION	APPROX. QUANTITY	ACTION REQUIRED	DATE OF LAST INSPECTION (INCL. COMPANY NAME AND INITIALS)	DATE OF CONTROL ACTION &/OR REMOVAL
Synthetic Mineral Fibres (SMF)											
-	Internal, ceiling cavity – underside of roof	Sarking	16	Yes	Bonded	**Assumed SMF**	Good	1200m²	Remove in accordance with NOHSC:2006 (1990)	18/04/2023 JBS&G RS & JG	
-	Internal, ceiling cavity	Insulation batts	16	Yes	Bonded	**Assumed SMF**	Good	1000m²	Remove in accordance with NOHSC:2006 (1990)	18/04/2023 JBS&G RS & JG	
-	Internal, staff kitchenette – 'Zipp' hydrotap	Insulation core	17	No	Bonded	**Assumed SMF**	Good	<1m²	Remove in accordance with NOHSC:2006 (1990)	18/04/2023 JBS&G RS & JG	
-	Internal, ceiling cavity above bathroom – 50L hot water unit	Insulation core	18	Yes	Bonded	**Assumed SMF**	Good	<1m²	Remove in accordance with NOHSC:2006 (1990)	18/04/2023 JBS&G RS & JG	
-	Internal, ceiling cavity – air conditioning ducting	Insulation	16	Yes	Bonded	**Assumed SMF**	Good	20m²	Remove in accordance with NOHSC:2006 (1990)	18/04/2023 JBS&G RS & JG	

Hazardous Materials Register (Rev 4)
K-2 Playground Area
87-129 Pennant Hills Road, North Parramatta NSW 2151
Date of Production – 29th April 2024

JBS&G SAMPLE NO.	LOCATION	MATERIAL DESCRIPTION	PHOTO NUMBER	ACCESSIBLE AREA?	FRIABILITY	ANALYTICAL RESULT	MATERIAL CONDITION	APPROX. QUANTITY	ACTION REQUIRED	DATE OF LAST INSPECTION (INCL. COMPANY NAME AND INITIALS)	DATE OF CONTROL ACTION &/OR REMOVAL
Asbestos Containing Materials (ACM)											
No asbestos containing materials were identified at the time of inspection										14/07/2023 JBS&G RS	
No Asbestos Detected											
PG-A01	External, sandstone retaining wall – joins	Mortar	20	Yes	-	No Asbestos Detected	-	-	No further action required	14/07/2023 JBS&G RS	
Lead Containing Dust											
No lead containing dust were identified at the time of inspection										14/07/2023 JBS&G RS	
Lead Based Paints											
No lead based paints identified at the time of inspection										14/07/2023 JBS&G RS	
Non-Lead Based Paints											
XRF	Remaining surfaces throughout the internal and external of the structure	Various paint systems	-	Yes	-	<0.01 mg/cm^2	-	-	No further action required	14/07/2023 JBS&G RS	
Polychlorinated Biphenyls (PCBs)											
No PCB containing materials were identified at the time of inspection										14/07/2023 JBS&G RS	
Synthetic Mineral Fibres (SMF)											
No SMF containing materials were identified at the time of inspection										14/07/2023 JBS&G RS	

Hazardous Materials Register (Rev 4)
Performing Arts Refurbishment
87-129 Pennant Hills Road, North Parramatta NSW 2151
Date of Production – 29th April 2024

JBS&G SAMPLE NO.	LOCATION	MATERIAL DESCRIPTION	PHOTO NUMBER	ACCESSIBLE AREA?	FRIABILITY	ANALYTICAL RESULT	MATERIAL CONDITION	APPROX. QUANTITY	ACTION REQUIRED	DATE OF LAST INSPECTION (INCL. COMPANY NAME AND INITIALS)	DATE OF CONTROL ACTION &/OR REMOVAL
Asbestos Containing Materials (ACM)											
No asbestos containing materials were identified at the time of inspection										14/07/2023 JBS&G RS	
No Asbestos Detected											
PA-A01	External, entrance way – sandstone block wall	Mastic	23	Yes	-	No Asbestos Detected	-	-	No further action required	14/07/2023 JBS&G RS	
PA-A02	External, exposed brick wall – expansion join	Beige mastic	24	Yes	-	No Asbestos Detected	-	-	No further action required	14/07/2023 JBS&G RS	
PA-A03	External, awning – ceiling liner	Fibre cement sheeting	25	Yes	-	No Asbestos Detected	-	-	No further action required	14/07/2023 JBS&G RS	
PA-A04	External, terracotta tile roof – under-cloak verge	Fibre cement sheeting	25	Yes	-	No Asbestos Detected	-	-	No further action required	14/07/2023 JBS&G RS	
PA-A05	External, concrete footpath – expansion join	Bituminous mastic	26	Yes	-	No Asbestos Detected	-	-	No further action required	14/07/2023 JBS&G RS	
PA-A06	Internal, kitchenette – floor	Beige vinyl sheet	27	Yes	-	No Asbestos Detected	-	-	No further action required	14/07/2023 JBS&G RS	
PA-AD01	Internal – ceiling cavity	Settled dust	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/07/2023 JBS&G RS	
Lead Containing Dust											
PA-LD01	Internal – ceiling cavity	Settled dust	-	Yes	-	67 mg/kg	-	-	No further action required	14/07/2023 JBS&G RS	
Lead Based Paints											
No lead based paints identified at the time of inspection										14/07/2023 JBS&G RS	
Non-Lead Based Paints											
PA-L01	External – downpipes	Grey paint	28	Yes	-	<0.01% w/w	-	-	No further action required	14/07/2023 JBS&G RS	

JBS&G SAMPLE NO.	LOCATION	MATERIAL DESCRIPTION	PHOTO NUMBER	ACCESSIBLE AREA?	FRIABILITY	ANALYTICAL RESULT	MATERIAL CONDITION	APPROX. QUANTITY	ACTION REQUIRED	DATE OF LAST INSPECTION (INCL. COMPANY NAME AND INITIALS)	DATE OF CONTROL ACTION &/OR REMOVAL
XRF	Remaining surfaces throughout the internal and external of the structure	Various paint systems	-	Yes	-	<0.01 mg/cm^2	-	-	No further action required	14/07/2023 JBS&G RS	
Polychlorinated Biphenyls (PCBs)											
Fluorescent light fittings were observed throughout the building, however, based on the age of construction (2002) and the new appearance of the light fittings, these light fittings are not suspected to contain PCB containing capacitors.									No further action required	14/07/2023 JBS&G RS	
Synthetic Mineral Fibres (SMF)											
-	Internal, ceiling cavity – underside of roof	Sarking	29	Yes	Bonded	**Assumed SMF**	Good	270m^2	Remove in accordance with NOHSC:2006 (1990)	14/07/2023 JBS&G RS	
-	Internal, ceiling cavity	Insulation batts	-	Yes	Bonded	**Assumed SMF**	Good	270m^2	Remove in accordance with NOHSC:2006 (1990)	14/07/2023 JBS&G RS	
-	Internal, ceiling cavity above kitchen – 50L hot water unit	Insulation core	30	Yes	Bonded	**Assumed SMF**	Good	<1m^2	Remove in accordance with NOHSC:2006 (1990)	14/07/2023 JBS&G RS	
-	Internal, ceiling cavity – air conditioning ducting	Insulation	-	Yes	Bonded	**Assumed SMF**	Good	10m^2	Remove in accordance with NOHSC:2006 (1990)	14/07/2023 JBS&G RS	

Hazardous Materials Register (Rev 4)
Shed 1
87-129 Pennant Hills Road, North Parramatta NSW 2151
Date of Production – 29th April 2024

JBS&G SAMPLE NO.	LOCATION	MATERIAL DESCRIPTION	PHOTO NUMBER	ACCESSIBLE AREA?	FRIABILITY	ANALYTICAL RESULT	MATERIAL CONDITION	APPROX. QUANTITY	ACTION REQUIRED	DATE OF LAST INSPECTION (INCL. COMPANY NAME AND INITIALS)	DATE OF CONTROL ACTION &/OR REMOVAL
Asbestos Containing Materials (ACM)											
No asbestos containing materials were identified at the time of inspection										18/04/2023 JBS&G RS & JG	
No Asbestos Detected											
S1-A01	External, windows – caulking	Putty	32	Yes	-	No Asbestos Detected	-	-	No further action required	18/04/2023 JBS&G RS & JG	
S1-AD01	Internal – floor	Settled dust	33	Yes	-	No Asbestos Detected	-	-	No further action required	18/04/2023 JBS&G RS & JG	
Lead Containing Dust											
S1-LD01	Internal – floor	Settled dust	33	Yes	-	**3300 mg/kg**	Poor	25 m^2	Remove prior to demolition by an experience hazardous materials removal contractor in accordance with AS4361.2-2017.	18/04/2023 JBS&G RS & JG	
Lead Based Paints											
67-L02	External, timber window frame and timber cladding	White paint	32	Yes	-	**19.% w/w**	Poor	10 m^2	Remove loose and flaking paint prior to demolition by an experienced hazardous materials removal contractor in accordance with AS4361.2-2017. Remaining paint well adhered to the building materials may be demolished if care is taken not to spread paint flakes to surrounding areas. Alternatively, remove all paint prior to demolition by an experienced hazardous materials removal contractor in accordance with AS4361.2-2017.	18/04/2023 JBS&G RS & JG	
Non-Lead Based Paints											
XRF	Remaining surfaces throughout the internal and external of the structure	Various paint systems	-	Yes	-	<0.01 mg/cm^2	-	-	No further action required	18/04/2023 JBS&G RS & JG	

JBS&G SAMPLE NO.	LOCATION	MATERIAL DESCRIPTION	PHOTO NUMBER	ACCESSIBLE AREA?	FRIABILITY	ANALYTICAL RESULT	MATERIAL CONDITION	APPROX. QUANTITY	ACTION REQUIRED	DATE OF LAST INSPECTION (INCL. COMPANY NAME AND INITIALS)	DATE OF CONTROL ACTION &/OR REMOVAL
Polychlorinated Biphenyls (PCBs)											
No PCBs identified at the time of inspection										18/04/2023 JBS&G RS & JG	
Synthetic Mineral Fibres (SMF)											
No SMF containing materials identified at the time of inspection										18/04/2023 JBS&G RS & JG	

Hazardous Materials Register (Rev 4)
Shed 2
87-129 Pennant Hills Road, North Parramatta NSW 2151
Date of Production – 29th April 2024

JBS&G SAMPLE NO.	LOCATION	MATERIAL DESCRIPTION	PHOTO NUMBER	ACCESSIBLE AREA?	FRIABILITY	ANALYTICAL RESULT	MATERIAL CONDITION	APPROX. QUANTITY	ACTION REQUIRED	DATE OF LAST INSPECTION (INCL. COMPANY NAME AND INITIALS)	DATE OF CONTROL ACTION &/OR REMOVAL
Asbestos Containing Materials (ACM)											
No asbestos containing materials were identified at the time of inspection										18/04/2023 JBS&G RS & JG	
No Asbestos Detected											
S2-AD01	Internal – floor	Settled dust	35	Yes	-	No Asbestos Detected	-	-	No further action required	18/04/2023 JBS&G RS & JG	
Lead Containing Dust											
S2-LD01	Internal – floor	Settled dust	35	Yes	-	**22000 mg/kg**	Poor	40 m^2	Remove prior to demolition by an experience hazardous materials removal contractor in accordance with AS4361.2-2017.	18/04/2023 JBS&G RS & JG	
Lead Based Paints											
S2-L02	External, corrugated metal – walls	Cream paint	36	Yes	-	**23% w/w**	Poor	50 m^2	Remove loose and flaking paint prior to demolition by an experienced hazardous materials removal contractor in accordance with AS4361.2-2017. Remaining paint well adhered to the building materials may be demolished if care is taken not to spread paint flakes to surrounding areas. Alternatively, remove all paint prior to demolition by an experienced hazardous materials removal contractor in accordance with AS4361.2-2017.	18/04/2023 JBS&G RS & JG	
S2-L02	External, timber window, frame and timber cladding	White paint with green paint undercoat	36	Yes	-	**35% w/w**	Poor	5 m^2		18/04/2023 JBS&G RS & JG	
Non-Lead Based Paints											
XRF	Remaining surfaces throughout the internal and external of the structure	Various paint systems	-	Yes	-	<0.01 mg/cm^2	-	-	No further action required	18/04/2023 JBS&G RS & JG	
Polychlorinated Biphenyls (PCBs)											
No PCBs identified at the time of inspection										18/04/2023 JBS&G RS & JG	

JBS&G SAMPLE NO.	LOCATION	MATERIAL DESCRIPTION	PHOTO NUMBER	ACCESSIBLE AREA?	FRIABILITY	ANALYTICAL RESULT	MATERIAL CONDITION	APPROX. QUANTITY	ACTION REQUIRED	DATE OF LAST INSPECTION (INCL. COMPANY NAME AND INITIALS)	DATE OF CONTROL ACTION &/OR REMOVAL
Synthetic Mineral Fibres (SMF)											
No SMF containing materials identified at the time of inspection										18/04/2023 JBS&G RS & JG	

Hazardous Materials Register (Rev 4)
Shed 3
87-129 Pennant Hills Road, North Parramatta NSW 2151
Date of Production – 29th April 2024

JBS&G SAMPLE NO.	LOCATION	MATERIAL DESCRIPTION	PHOTO NUMBER	ACCESSIBLE AREA?	FRIABILITY	ANALYTICAL RESULT	MATERIAL CONDITION	APPROX. QUANTITY	ACTION REQUIRED	DATE OF LAST INSPECTION (INCL. COMPANY NAME AND INITIALS)	DATE OF CONTROL ACTION &/OR REMOVAL
Asbestos Containing Materials (ACM)											
No asbestos containing materials were identified at the time of inspection										18/04/2023 JBS&G RS & JG	
No Asbestos Detected											
S3-A01	External, window – caulking	White mastic	38	Yes	-	No Asbestos Detected	-	-	No further action required	18/04/2023 JBS&G RS & JG	
S3-AD01	Internal – floor	Settled dust	-	Yes	-	No Asbestos Detected	-	-	No further action required	18/04/2023 JBS&G RS & JG	
Lead Containing Dust											
S3-LD01	Internal – floor	Settled dust	-	Yes	-	**1500 mg/kg**	Poor	60 m^2	Remove prior to demolition by an experience hazardous materials removal contractor in accordance with AS4361.2-2017.	18/04/2023 JBS&G RS & JG	
Lead Based Paints											
S3-L01	External – walls	Cream paint	39	Yes	-	**34% w/w**	Poor	70 m^2	Remove loose and flaking paint prior to demolition by an experienced hazardous materials removal contractor in accordance with AS4361.2-2017. Remaining paint well adhered to the building materials may be demolished if care is taken not to spread paint flakes to surrounding areas. Alternatively, remove all paint prior to demolition by an experienced hazardous materials removal contractor in accordance with AS4361.2-2017.	18/04/2023 JBS&G RS & JG	
S3-L02	External, windows, window frame, door and door frame	Green paint with white paint overcoat	39	Yes	-	**2.8% w/w**	Poor	8 m^2		18/04/2023 JBS&G RS & JG	
S3-L03	Internal walls	White paint with blue paint undercoat	40	Yes	-	**8.3% w/w**	Poor	40 m^2		18/04/2023 JBS&G RS & JG	
Non-Lead Based Paints											
XRF	Remaining surfaces throughout the internal and external of the structure	Various paint systems	-	Yes	-	<0.01 mg/cm^2	-	-	No further action required	18/04/2023 JBS&G RS & JG	

JBS&G SAMPLE NO.	LOCATION	MATERIAL DESCRIPTION	PHOTO NUMBER	ACCESSIBLE AREA?	FRIABILITY	ANALYTICAL RESULT	MATERIAL CONDITION	APPROX. QUANTITY	ACTION REQUIRED	DATE OF LAST INSPECTION (INCL. COMPANY NAME AND INITIALS)	DATE OF CONTROL ACTION &/OR REMOVAL
Polychlorinated Biphenyls (PCBs)											
No PCBs identified at the time of inspection										18/04/2023 JBS&G RS & JG	
Synthetic Mineral Fibres (SMF)											
No SMF containing materials identified at the time of inspection										18/04/2023 JBS&G RS & JG	

Hazardous Materials Register (Rev 4)
Shed 4
87-129 Pennant Hills Road, North Parramatta NSW 2151
Date of Production – 29th April 2024

JBS&G SAMPLE NO.	LOCATION	MATERIAL DESCRIPTION	PHOTO NUMBER	ACCESSIBLE AREA?	FRIABILITY	ANALYTICAL RESULT	MATERIAL CONDITION	APPROX. QUANTITY	ACTION REQUIRED	DATE OF LAST INSPECTION (INCL. COMPANY NAME AND INITIALS)	DATE OF CONTROL ACTION &/OR REMOVAL
Asbestos Containing Materials (ACM)											
S4-A03	Internal, behind plywood – walls and ceiling liner	Fibre cement sheeting	42	Partially	Non-Friable	**Chrysotile Asbestos Detected**	Poor	55m²	Remove prior to demolition. Works to be completed under controlled conditions by Class A or Class B licensed removal contractor in accordance with SWNSW 2022a	14/07/2023 JBS&G RS	
No Asbestos Detected											
S4-A01	External – cladding	Fibre cement sheeting	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/07/2023 JBS&G RS	
S4-A02	External, window – caulking	White mastic	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/07/2023 JBS&G RS	
S4-AD01	Internal – floor	Settled dust	-	Yes	-	No Asbestos Detected	-	-	No further action required	14/07/2023 JBS&G RS	
Lead Containing Dust											
S4-LD01	Internal – floor	Settled dust	-	Yes	-	60 mg/kg	-	-	No further action required	14/07/2023 JBS&G RS	
Lead Based Paints											
S4-L01	External – walls	White paint with green undercoat	43	Yes	-	**2.4% w/w**	Poor	80 m²	Remove loose and flaking paint prior to demolition by an experienced hazardous materials removal contractor in accordance with AS4361.2-2017. Remaining paint well adhered to the building materials may be demolished if care is taken not to spread paint flakes to surrounding areas. Alternatively, remove all paint prior to demolition by an experienced hazardous materials removal contractor in accordance with AS4361.2-2017.	14/07/2023 JBS&G RS	
S4-L02	External, windows, window frame, door and door frame	White paint	44	Yes	-	**15% w/w**	Poor	2 m²		14/07/2023 JBS&G RS	

JBS&G SAMPLE NO.	LOCATION	MATERIAL DESCRIPTION	PHOTO NUMBER	ACCESSIBLE AREA?	FRIABILITY	ANALYTICAL RESULT	MATERIAL CONDITION	APPROX. QUANTITY	ACTION REQUIRED	DATE OF LAST INSPECTION (INCL. COMPANY NAME AND INITIALS)	DATE OF CONTROL ACTION &/OR REMOVAL
Non-Lead Based Paints											
XRF	Remaining surfaces throughout the internal and external of the structure	Various paint systems	-	Yes	-	<0.01 mg/cm²	-	-	No further action required	14/07/2023 JBS&G RS	
Polychlorinated Biphenyls (PCBs)											
No PCBs identified at the time of inspection										14/07/2023 JBS&G RS	
Synthetic Mineral Fibres (SMF)											
No SMF containing materials identified at the time of inspection										14/07/2023 JBS&G RS	
Inaccessible areas											
At the time of inspection there no access to the ceiling cavity of the structure									Prior to demolition it is recommended the ceiling cavity is inspected and any suspected hazardous materials are sampled by a suitably qualified competent person prior to any works commencing.	14/07/2023 JBS&G RS	

Hazardous Materials Register (Rev 4)
Shed 5
87-129 Pennant Hills Road, North Parramatta NSW 2151
Date of Production – 29th April 2024

JBS&G SAMPLE NO.	LOCATION	MATERIAL DESCRIPTION	PHOTO NUMBER	ACCESSIBLE AREA?	FRIABILITY	ANALYTICAL RESULT	MATERIAL CONDITION	APPROX. QUANTITY	ACTION REQUIRED	DATE OF LAST INSPECTION (INCL. COMPANY NAME AND INITIALS)	DATE OF CONTROL ACTION &/OR REMOVAL
Asbestos Containing Materials (ACM)											
No asbestos containing materials were identified at the time of inspection										14/07/2023 JBS&G RS	
Lead Containing Dust											
No lead containing dust were identified at the time of inspection										14/07/2023 JBS&G RS	
Non-Lead Based Paints											
S5-L01	Internal – cattle/sheep crush	Yellow paint	46	Yes	-	<0.01% w/w	-	-	No further action required	14/07/2023 JBS&G RS	
XRF	Remaining surfaces throughout the internal and external of the structure	Various paint systems	-	Yes	-	<0.01 mg/cm^2	-	-	No further action required	14/07/2023 JBS&G RS	
Polychlorinated Biphenyls (PCBs)											
No PCBs identified at the time of inspection										14/07/2023 JBS&G RS	
Synthetic Mineral Fibres (SMF)											
No SMF containing materials identified at the time of inspection										14/07/2023 JBS&G RS	

Hazardous Materials Register (Rev 4)
Out House
87-129 Pennant Hills Road, North Parramatta NSW 2151
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JBS&G SAMPLE NO.	LOCATION	MATERIAL DESCRIPTION	PHOTO NUMBER	ACCESSIBLE AREA?	FRIABILITY	ANALYTICAL RESULT	MATERIAL CONDITION	APPROX. QUANTITY	ACTION REQUIRED	DATE OF LAST INSPECTION (INCL. COMPANY NAME AND INITIALS)	DATE OF CONTROL ACTION &/OR REMOVAL
Asbestos Containing Materials (ACM)											
OH-AD01	Internal – floor	Settled dust	48	Yes	-	No Asbestos Detected	-	-	Remove prior to demolition by an experience hazardous materials removal contractor in accordance with AS4361.2-2017.	18/04/2023 JBS&G RS & JG	
Lead Containing Dust											
OH-LD01	Internal – floor	Settled dust	48	Yes	-	**1200 mg/kg**	Poor	10 m^2	Remove prior to demolition by an experience hazardous materials removal contractor in accordance with AS4361.2-2017.	18/04/2023 JBS&G RS & JG	
Lead Based Paints											
No lead based paints identified at the time of inspection										18/04/2023 JBS&G RS & JG	
Non-Lead Based Paints											
XRF	Remaining surfaces throughout the internal and external of the structure	Various paint systems	-	Yes	-	<0.01 mg/cm^2	-	-	No further action required	18/04/2023 JBS&G RS & JG	
Polychlorinated Biphenyls (PCBs)											
No PCBs identified at the time of inspection										18/04/2023 JBS&G RS & JG	
Synthetic Mineral Fibres (SMF)											
No SMF containing materials identified at the time of inspection										18/04/2023 JBS&G RS & JG	

Hazardous Materials Register (Rev 4)
Chicken Coop
87-129 Pennant Hills Road, North Parramatta NSW 2151
Date of Production – 29th April 2024

JBS&G SAMPLE NO.	LOCATION	MATERIAL DESCRIPTION	PHOTO NUMBER	ACCESSIBLE AREA?	FRIABILITY	ANALYTICAL RESULT	MATERIAL CONDITION	APPROX. QUANTITY	ACTION REQUIRED	DATE OF LAST INSPECTION (INCL. COMPANY NAME AND INITIALS)	DATE OF CONTROL ACTION &/OR REMOVAL
Asbestos Containing Materials (ACM)											
No asbestos containing materials were identified at the time of inspection										18/04/2023 JBS&G RS & JG	
Lead Containing Dust											
No lead containing dust were identified at the time of inspection										18/04/2023 JBS&G RS & JG	
Lead Based Paints											
No lead based paints identified at the time of inspection										18/04/2023 JBS&G RS & JG	
Non-Lead Based Paints											
XRF	Remaining surfaces throughout the internal and external of the structure	Various paint systems	-	Yes	-	<0.01 mg/cm^2	-	-	No further action required	18/04/2023 JBS&G RS & JG	
Polychlorinated Biphenyls (PCBs)											
No PCBs identified at the time of inspection										18/04/2023 JBS&G RS & JG	
Synthetic Mineral Fibres (SMF)											
No SMF containing materials identified at the time of inspection										18/04/2023 JBS&G RS & JG	

JBS&G SAMPLE NO.	LOCATION	MATERIAL DESCRIPTION	PHOTO NUMBER	ACCESSIBLE AREA?	FRIABILITY	ANALYTICAL RESULT	MATERIAL CONDITION	APPROX. QUANTITY	ACTION REQUIRED	DATE OF LAST INSPECTION (INCL. COMPANY NAME AND INITIALS)	DATE OF CONTROL ACTION &/OR REMOVAL
Asbestos Containing Materials (ACM)											
No asbestos containing materials were identified at the time of inspection										18/04/2023 JBS&G RS & JG	
Lead Containing Dust											
No lead containing dust were identified at the time of inspection										18/04/2023 JBS&G RS & JG	
Lead Based Paints											
No lead based paints identified at the time of inspection										18/04/2023 JBS&G RS & JG	
Non-Lead Based Paints											
XRF	Remaining surfaces throughout the internal and external of the structure	Various paint systems	-	Yes	-	<0.01 mg/cm^2	-	-	No further action required	18/04/2023 JBS&G RS & JG	
Polychlorinated Biphenyls (PCBs)											
Detailed inspection of light fittings could not be undertaken due to active electricity supply. All light fittings should be assumed to contain PCBs.									Undertake detailed inspection following isolation of electricity supply, OR Handle in accordance with ANZECC 1997	18/04/2023 JBS&G RS & JG	
Synthetic Mineral Fibres (SMF)											
No SMF containing materials identified at the time of inspection										18/04/2023 JBS&G RS & JG	

Hazardous Materials Register (Rev 4)
Green House
87-129 Pennant Hills Road, North Parramatta NSW 2151
Date of Production – 29th April 2024

JBS&G SAMPLE NO.	LOCATION	MATERIAL DESCRIPTION	PHOTO NUMBER	ACCESSIBLE AREA?	FRIABILITY	ANALYTICAL RESULT	MATERIAL CONDITION	APPROX. QUANTITY	ACTION REQUIRED	DATE OF LAST INSPECTION (INCL. COMPANY NAME AND INITIALS)	DATE OF CONTROL ACTION &/OR REMOVAL
Asbestos Containing Materials (ACM)											
No asbestos containing materials were identified at the time of inspection										18/04/2023 JBS&G RS & JG	
Lead Containing Dust											
No lead containing dust were identified at the time of inspection										18/04/2023 JBS&G RS & JG	
Lead Based Paints											
No lead based paints identified at the time of inspection										18/04/2023 JBS&G RS & JG	
Non-Lead Based Paints											
XRF	Remaining surfaces throughout the internal and external of the structure	Various paint systems	-	Yes	-	<0.01 mg/cm^2	-	-	No further action required	18/04/2023 JBS&G RS & JG	
Polychlorinated Biphenyls (PCBs)											
No PCBs containing materials identified at the time of inspection										18/04/2023 JBS&G RS & JG	
Synthetic Mineral Fibres (SMF)											
No SMF containing materials identified at the time of inspection										18/04/2023 JBS&G RS & JG	

Hazardous Materials Register (Rev 4)
Grey Shed
87-129 Pennant Hills Road, North Parramatta NSW 2151
Date of Production – 29th April 2024

JBS&G SAMPLE NO.	LOCATION	MATERIAL DESCRIPTION	PHOTO NUMBER	ACCESSIBLE AREA?	FRIABILITY	ANALYTICAL RESULT	MATERIAL CONDITION	APPROX. QUANTITY	ACTION REQUIRED	DATE OF LAST INSPECTION (INCL. COMPANY NAME AND INITIALS)	DATE OF CONTROL ACTION &/OR REMOVAL
Asbestos Containing Materials (ACM)											
No asbestos containing materials were identified at the time of inspection										18/04/2023 JBS&G RS & JG	
Lead Containing Dust											
No lead containing dust were identified at the time of inspection										18/04/2023 JBS&G RS & JG	
Lead Based Paints											
No lead based paints identified at the time of inspection										18/04/2023 JBS&G RS & JG	
Non-Lead Based Paints											
XRF	Remaining surfaces throughout the internal and external of the structure	Various paint systems	-	Yes	-	<0.01 mg/cm^2	-	-	No further action required	18/04/2023 JBS&G RS & JG	
Polychlorinated Biphenyls (PCBs)											
No PCBs containing materials identified at the time of inspection										18/04/2023 JBS&G RS & JG	
Synthetic Mineral Fibres (SMF)											
-	Internal, underside of roof	Sarking	53	Yes	Bonded	**Assumed SMF**	Good	40m^2	Remove in accordance with NOHSC:2006 (1990)	18/04/2023 JBS&G RS & JG	

Hazardous Materials Register (Rev 4)
Seed Shed
87-129 Pennant Hills Road, North Parramatta NSW 2151
Date of Production – 29th April 2024

JBS&G SAMPLE NO.	LOCATION	MATERIAL DESCRIPTION	PHOTO NUMBER	ACCESSIBLE AREA?	FRIABILITY	ANALYTICAL RESULT	MATERIAL CONDITION	APPROX. QUANTITY	ACTION REQUIRED	DATE OF LAST INSPECTION (INCL. COMPANY NAME AND INITIALS)	DATE OF CONTROL ACTION &/OR REMOVAL
Asbestos Containing Materials (ACM)											
No asbestos containing materials were identified at the time of inspection										18/04/2023 JBS&G RS & JG	
Lead Containing Dust											
No lead containing dust were identified at the time of inspection										18/04/2023 JBS&G RS & JG	
Lead Based Paints											
No lead based paints identified at the time of inspection										18/04/2023 JBS&G RS & JG	
Non-Lead Based Paints											
XRF	Remaining surfaces throughout the internal and external of the structure	Various paint systems	-	Yes	-	<0.01 mg/cm^2	-	-	No further action required	18/04/2023 JBS&G RS & JG	
Polychlorinated Biphenyls (PCBs)											
No PCBs containing materials identified at the time of inspection										18/04/2023 JBS&G RS & JG	
Synthetic Mineral Fibres (SMF)											
No SMF containing materials identified at the time of inspection										18/04/2023 JBS&G RS & JG	

Hazardous Materials Register (Rev 4)
Hawkhurst cottage
87-129 Pennant Hills Road, North Parramatta NSW 2151
Date of Production – 29th April 2024

JBS&G SAMPLE NO.	LOCATION	MATERIAL DESCRIPTION	PHOTO NUMBER	ACCESSIBLE AREA?	FRIABILITY	ANALYTICAL RESULT	MATERIAL CONDITION	APPROX. QUANTITY	ACTION REQUIRED	DATE OF LAST INSPECTION (INCL. COMPANY NAME AND INITIALS)	DATE OF CONTROL ACTION &/OR REMOVAL
Asbestos Containing Materials (ACM)											
-	External, eaves	Fibre cement sheeting	-	No	Non-friable	Assumed asbestos	Unknown	Unknown	Remove prior to demolition. Works to be completed under controlled conditions by Class A or B licensed removal contractor in accordance with SWNSW 2022a	19/04/2023 JBS&G RS & JG	
-	External, gable end – under cloaked verge	Fibre cement sheeting	56	No	Non-friable	Assumed asbestos	Unknown	Unknown	Remove prior to demolition. Works to be completed under controlled conditions by Class A or B licensed removal contractor in accordance with SWNSW 2022a	19/04/2023 JBS&G RS & JG	
-	External – fuse box	Electrical backing board	-	No	Non-friable	Assumed asbestos	Unknown	Unknown	Remove prior to demolition. Works to be completed under controlled conditions by Class A or B licensed removal contractor in accordance with SWNSW 2022a	19/04/2023 JBS&G RS & JG	
Synthetic Mineral Fibres (SMF)											
-	External, western wall – hot water unit	Insulation core	-	Yes	Bonded	**Assumed SMF**	Good	<1m²	Remove in accordance with NOHSC:2006 (1990)	19/04/2023 JBS&G RS & JG	
Inaccessible areas											
At the time of inspection there no access to the internal or external of the structure									Prior to demolition it is recommended the internal and external areas of the Hawkhurst cottage is inspected and any suspected hazardous materials are sampled by a suitably qualified competent person prior to any works commencing.	19/04/2023 JBS&G RS & JG	

JBS&G SAMPLE NO.	LOCATION	MATERIAL DESCRIPTION	PHOTO NUMBER	ACCESSIBLE AREA?	FRIABILITY	ANALYTICAL RESULT	MATERIAL CONDITION	APPROX. QUANTITY	ACTION REQUIRED	DATE OF LAST INSPECTION (INCL. COMPANY NAME AND INITIALS)	DATE OF CONTROL ACTION &/OR REMOVAL
Asbestos Containing Materials (ACM)											
-	External, eaves	Fibre cement sheeting	58	No	Non-friable	Assumed asbestos	Unknown	Unknown	Remove prior to demolition. Works to be completed under controlled conditions by Class A or B licensed removal contractor in accordance with SWNSW 2022a	19/04/2023 JBS&G RS & JG	
-	External, gable end – under cloaked verge	Fibre cement sheeting	58	No	Non-friable	Assumed asbestos	Unknown	Unknown	Remove prior to demolition. Works to be completed under controlled conditions by Class A or B licensed removal contractor in accordance with SWNSW 2022a	19/04/2023 JBS&G RS & JG	
-	External – fuse box	Electrical backing board	-	No	Non-friable	Assumed asbestos	Unknown	Unknown	Remove prior to demolition. Works to be completed under controlled conditions by Class A or B licensed removal contractor in accordance with SWNSW 2022a	19/04/2023 JBS&G RS & JG	
Synthetic Mineral Fibres (SMF)											
-	External, eastern wall – hot water unit	Insulation core	58	Yes	Bonded	**Assumed SMF**	Good	<1m²	Remove in accordance with NOHSC:2006 (1990)	19/04/2023 JBS&G RS & JG	
Inaccessible areas											
At the time of inspection there no access to the internal or external of the structure									Prior to demolition it is recommended the internal and external areas of the Angliss cottage is inspected and any suspected hazardous materials are sampled by a suitably qualified competent person prior to any works commencing.	19/04/2023 JBS&G RS & JG	

Hazardous Materials Register (Rev 4)
Soccer Equipment Storage
87-129 Pennant Hills Road, North Parramatta NSW 2151
Date of Production – 29th April 2024

JBS&G SAMPLE NO.	LOCATION	MATERIAL DESCRIPTION	PHOTO NUMBER	ACCESSIBLE AREA?	FRIABILITY	ANALYTICAL RESULT	MATERIAL CONDITION	APPROX. QUANTITY	ACTION REQUIRED	DATE OF LAST INSPECTION (INCL. COMPANY NAME AND INITIALS)	DATE OF CONTROL ACTION &/OR REMOVAL
Asbestos Containing Materials (ACM)											
No asbestos containing materials were identified at the time of inspection										19/04/2023 JBS&G RS & JG	
No Asbestos Detected											
SE-A01	Concrete slab – expansion joint	Bituminous mastic	61	Yes	-	No Asbestos Detected	-	-	No further action required	19/04/2023 JBS&G RS & JG	
SE -A02	External, eaves	Fibre cement sheeting	62	Yes	-	No Asbestos Detected	-	-	No further action required	19/04/2023 JBS&G RS & JG	
SE -A03	Internal, northern divide – wall	Fibre cement sheeting	63	Yes	-	No Asbestos Detected	-	-	No further action required	19/04/2023 JBS&G RS & JG	
SE -AD01	Internal, floor	Settled dust	64	Yes	-	No Asbestos Detected	-	-	No further action required	19/04/2023 JBS&G RS & JG	
Lead Containing Dust											
SE-LD01	Internal, floor	Settled dust	64	Yes	-	43 mg/kg	-	-	No further action required	19/04/2023 JBS&G RS & JG	
Lead Based Paints											
No lead based paints identified at the time of inspection										19/04/2023 JBS&G RS & JG	
Non-Lead Based Paints											
XRF	Surfaces throughout the internal and external of the structure	Various paint systems	-	Yes	-	<0.01 mg/cm^2	-	-	No further action required	19/04/2023 JBS&G RS & JG	
Polychlorinated Biphenyls (PCBs)											
Detailed inspection of light fittings could not be undertaken due to active electricity supply. All light fittings should be assumed to contain PCBs.									Undertake detailed inspection following isolation of electricity supply, OR Handle in accordance with ANZECC 1997	19/04/2023 JBS&G RS & JG	

JBS&G SAMPLE NO.	LOCATION	MATERIAL DESCRIPTION	PHOTO NUMBER	ACCESSIBLE AREA?	FRIABILITY	ANALYTICAL RESULT	MATERIAL CONDITION	APPROX. QUANTITY	ACTION REQUIRED	DATE OF LAST INSPECTION (INCL. COMPANY NAME AND INITIALS)	DATE OF CONTROL ACTION &/OR REMOVAL
Synthetic Mineral Fibres (SMF)											
No SMF containing materials identified at the time of inspection										19/04/2023 JBS&G RS & JG	

Hazardous Materials Register (Rev 4)
Shipping containers #1
87-129 Pennant Hills Road, North Parramatta NSW 2151
Date of Production – 29th April 2024

JBS&G SAMPLE NO.	LOCATION	MATERIAL DESCRIPTION	PHOTO NUMBER	ACCESSIBLE AREA?	FRIABILITY	ANALYTICAL RESULT	MATERIAL CONDITION	APPROX. QUANTITY	ACTION REQUIRED	DATE OF LAST INSPECTION (INCL. COMPANY NAME AND INITIALS)	DATE OF CONTROL ACTION &/OR REMOVAL
Asbestos Containing Materials (ACM)											
No asbestos containing materials were identified at the time of inspection										19/04/2023 JBS&G RS & JG	
Lead Based Paints											
SEC-L02	External, middle shipping container	Red paint with blue paint undercoat	66	Yes	-	**0.19% w/w**	Fair	200m²	Remove loose and flaking paint prior to demolition by an experienced hazardous materials removal contractor in accordance with AS4361.2-2017. Remaining paint well adhered to the building materials may be demolished if care is taken not to spread paint flakes to surrounding areas. Alternatively, remove all paint prior to demolition by an experienced hazardous materials removal contractor in accordance with AS4361.2-2017.	19/04/2023 JBS&G RS & JG	
SEC-L03	External, east shipping container	Green paint with red paint undercoat	66	Yes	-	**0.13% w/w**	Fair	200m²		19/04/2023 JBS&G RS & JG	
Non-Lead Based Paints											
SEC-L01	External, west shipping container	White paint with red paint undercoat	-	Yes	-	<0.01% w/w	-	-	No further action required	19/04/2023 JBS&G RS & JG	
XRF	Remaining surfaces throughout the external of the structure	Various paint systems	-	Yes	-	<0.01 mg/cm²	-	-	No further action required	19/04/2023 JBS&G RS & JG	
Polychlorinated Biphenyls (PCBs)											
No PCBs identified at the time of inspection										19/04/2023 JBS&G RS & JG	
Synthetic Mineral Fibres (SMF)											
No SMF containing materials identified at the time of inspection										19/04/2023 JBS&G RS & JG	

JBS&G SAMPLE NO.	LOCATION	MATERIAL DESCRIPTION	PHOTO NUMBER	ACCESSIBLE AREA?	FRIABILITY	ANALYTICAL RESULT	MATERIAL CONDITION	APPROX. QUANTITY	ACTION REQUIRED	DATE OF LAST INSPECTION (INCL. COMPANY NAME AND INITIALS)	DATE OF CONTROL ACTION &/OR REMOVAL
Inaccessible areas											
At the time of inspection there no access to the internal of the structure									Prior to demolition it is recommended the is inspected and any suspected hazardous materials are sampled by a suitably qualified competent person prior to any works commencing.	19/04/2023 JBS&G RS & JG	

JBS&G SAMPLE NO.	LOCATION	MATERIAL DESCRIPTION	PHOTO NUMBER	ACCESSIBLE AREA?	FRIABILITY	ANALYTICAL RESULT	MATERIAL CONDITION	APPROX. QUANTITY	ACTION REQUIRED	DATE OF LAST INSPECTION (INCL. COMPANY NAME AND INITIALS)	DATE OF CONTROL ACTION &/OR REMOVAL
Asbestos Containing Materials (ACM)											
~~SB-AD01~~	~~Internal, atop bathroom divider~~	~~Settled dust~~	~~68~~	~~Yes~~	~~Friable~~	~~**Chrysotile Asbestos Detected in the Form of Loose Fibre Bundles**~~	~~Poor~~	~~2m²~~	~~Remove prior to demolition. Works to be completed under controlled conditions by Class A licensed removal contractor in accordance with SWNSW 2022a~~	19/04/2023 JBS&G RS & JG	Removed in February 2024. Refer to **Appendix E** JBS&G Clearance Report (66596-157,894)
~~As per SB-AD01~~	~~Throughout internal surfaces and cavities of structure~~	~~Settled dust~~	~~69~~	~~Yes~~	~~Friable~~	~~**Assumed Asbestos**~~	~~Poor~~	~~180m²~~	~~Remove prior to demolition. Works to be completed under controlled conditions by Class A licensed removal contractor in accordance with SWNSW 2022a~~	19/04/2023 JBS&G RS & JG	Removed in February 2024. Refer to **Appendix E** JBS&G Clearance Report (66596-157,894)
No Asbestos Detected											
SB-A01	Internal, bathroom cubical dividers and door	Compressed fibre cement sheeting	-	Yes	-	No Asbestos Detected	-	-	No further action required	19/04/2023 JBS&G RS & JG	
Lead Containing Dust											
~~SB-LD01~~	~~Internal, atop bathroom divider~~	~~Settled dust~~	~~68~~	~~Yes~~	~~-~~	~~**610 mg/kg**~~	~~Poor~~	~~2m²~~	~~Remove prior to demolition by an experience hazardous materials removal contractor in accordance with AS4361.2-2017.~~	19/04/2023 JBS&G RS & JG	Removed in conjunction with the friable asbestos
~~As per SB-LD01~~	~~Throughout internal surfaces and cavities of structure~~	~~Settled dust~~	~~69~~	~~Yes~~	~~-~~	~~**Assumed elevated lead concentrations**~~	~~Poor~~	~~180m²~~	~~Remove prior to demolition by an experience hazardous materials removal contractor in accordance with AS4361.2-2017.~~	19/04/2023 JBS&G RS & JG	Removed in conjunction with the friable asbestos
Lead Based Paints											
No lead based paints identified at the time of inspection										19/04/2023 JBS&G RS & JG	
Non-Lead Based Paints											
XRF	Remaining surfaces throughout the internal and external of the structure	Various paint systems	-	Yes	-	<0.01 mg/cm²	-	-	No further action required	19/04/2023 JBS&G RS & JG	

JBS&G SAMPLE NO.	LOCATION	MATERIAL DESCRIPTION	PHOTO NUMBER	ACCESSIBLE AREA?	FRIABILITY	ANALYTICAL RESULT	MATERIAL CONDITION	APPROX. QUANTITY	ACTION REQUIRED	DATE OF LAST INSPECTION (INCL. COMPANY NAME AND INITIALS)	DATE OF CONTROL ACTION &/OR REMOVAL
Polychlorinated Biphenyls (PCBs)											
Detailed inspection of light fittings could not be undertaken due to active electricity supply. All light fittings should be assumed to contain PCBs.									Undertake detailed inspection following isolation of electricity supply, OR Handle in accordance with ANZECC 1997	19/04/2023 JBS&G RS & JG	
Synthetic Mineral Fibres (SMF)											
-	External, northern wall covered area – 135L hot water unit	Insulation core	70	No	Bonded	**Assumed SMF**	Good	<1m²	Remove in accordance with NOHSC:2006 (1990)	19/04/2023 JBS&G RS & JG	

Hazardous Materials Register (Rev 4)
Old Boys Clubhouse
87-129 Pennant Hills Road, North Parramatta NSW 2151
Date of Production – 29th April 2024

JBS&G SAMPLE NO.	LOCATION	MATERIAL DESCRIPTION	PHOTO NUMBER	ACCESSIBLE AREA?	FRIABILITY	ANALYTICAL RESULT	MATERIAL CONDITION	APPROX. QUANTITY	ACTION REQUIRED	DATE OF LAST INSPECTION (INCL. COMPANY NAME AND INITIALS)	DATE OF CONTROL ACTION &/OR REMOVAL
Asbestos Containing Materials (ACM)											
OB-A02	External, ground surface around structure	Fibre cement debris	73	Partially	Non-Friable	**Chrysotile Asbestos Detected**	Poor	Unknown	Remove prior to demolition. Works to be completed under controlled conditions by Class A or Class B licensed removal contractor in accordance with SWNSW 2022a	19/04/2023 JBS&G RS & JG	
As per OB-A02	External, main portion of structure and southern veranda – joist and footing interface	Fibre cement packers	74	No	Non-Friable	**Assumed Asbestos**	Fair	Unknown	Remove prior to demolition. Works to be completed under controlled conditions by Class A or Class B licensed removal contractor in accordance with SWNSW 2022a	19/04/2023 JBS&G RS & JG	
OB-A03	External, ground surface around structure and road surface adjacent	Corrugated fibre cement debris	75	Partially	Non-Friable	**Chrysotile and Amosite Asbestos Detected**	Poor	Unknown	Remove prior to demolition. Works to be completed under controlled conditions by Class A or Class B licensed removal contractor in accordance with SWNSW 2022a	19/04/2023 JBS&G RS & JG	
OB-A04	External, southern veranda wall – fuse box	Electrical backing board	76	Yes	Non-Friable	**Chrysotile Asbestos Detected**	Good	1m^2	Remove prior to demolition. Works to be completed under controlled conditions by Class A or Class B licensed removal contractor in accordance with SWNSW 2022a	19/04/2023 JBS&G RS & JG	
OB-A05	Internal, upper half – wall	Fibre cement sheeting	77	Yes	Non-Friable	**Chrysotile Asbestos Detected**	Good	16m^2	Remove prior to demolition. Works to be completed under controlled conditions by Class A or Class B licensed removal contractor in accordance with SWNSW 2022a	19/04/2023 JBS&G RS & JG	
As per OB-A05	Internal, ceiling lining	Fibre cement sheeting	78	Yes	Non-Friable	**Assumed Asbestos**	Fair	50m^2	Remove prior to demolition. Works to be completed under controlled conditions by Class A or Class B licensed removal contractor in accordance with SWNSW 2022a	19/04/2023 JBS&G RS & JG	
No Asbestos Detected											
OB-A01	External, northern veranda – joist and footing interface	Fibre cement packers	79	Yes	-	No Asbestos Detected	-	-	No further action required	19/04/2023 JBS&G RS & JG	
OB-AD01	Internal, floor	Settled dust	80	Yes	-	No Asbestos detected	-	-	No further action required	19/04/2023 JBS&G RS & JG	

JBS&G SAMPLE NO.	LOCATION	MATERIAL DESCRIPTION	PHOTO NUMBER	ACCESSIBLE AREA?	FRIABILITY	ANALYTICAL RESULT	MATERIAL CONDITION	APPROX. QUANTITY	ACTION REQUIRED	DATE OF LAST INSPECTION (INCL. COMPANY NAME AND INITIALS)	DATE OF CONTROL ACTION &/OR REMOVAL
Lead Containing Dust											
OB-LD01	Internal, floor	Settled dust	80	Yes	-	**880 mg/kg**	Poor	80m²	Remove prior to demolition by an experience hazardous materials removal contractor in accordance with AS4361.2-2017.	19/04/2023 JBS&G RS & JG	
As per OB-LD01	Throughout internal surfaces	Settled dust	80	Yes	-	**Assumed elevated lead concentrations**	Poor	250m²	Remove prior to demolition by an experience hazardous materials removal contractor in accordance with AS4361.2-2017.	19/04/2023 JBS&G RS & JG	
Lead Based Paints											
OB-L01	External, timber surfaces	White paint	81	Yes	-	**4.6% w/w**	Fair	70m²	Remove loose and flaking paint prior to demolition by an experienced hazardous materials removal contractor in accordance with AS4361.2-2017. Remaining paint well adhered to the building materials may be demolished if care is taken not to spread paint flakes to surrounding areas. Alternatively, remove all paint prior to demolition by an experienced hazardous materials removal contractor in accordance with AS4361.2-2017.	19/04/2023 JBS&G RS & JG	
OB-L02	External, timber window frames and roof timbers	Green paint	82	Yes	-	**7.0% w/w**	Fair	10m²		19/04/2023 JBS&G RS & JG	
OB-L03	Internal, timber picture rail and window frame	Red paint	83	Yes	-	**3.1% w/w**	Fair	10m²		19/04/2023 JBS&G RS & JG	
OB-L04	Internal, north western room – walls and ceiling timber cladding	White paint	84	Yes	-	**10% w/w**	Fair	26m²		19/04/2023 JBS&G RS & JG	
Non-Lead Based Paints											
XRF	Remaining surfaces throughout the internal and external of the structure	Various paint systems	-	Yes	-	<0.01 mg/cm²	-	-	No further action required	19/04/2023 JBS&G RS & JG	
Polychlorinated Biphenyls (PCBs)											
No PCBs containing materials were identified at the time of inspection									No further action required	19/04/2023 JBS&G RS & JG	

JBS&G SAMPLE NO.	LOCATION	MATERIAL DESCRIPTION	PHOTO NUMBER	ACCESSIBLE AREA?	FRIABILITY	ANALYTICAL RESULT	MATERIAL CONDITION	APPROX. QUANTITY	ACTION REQUIRED	DATE OF LAST INSPECTION (INCL. COMPANY NAME AND INITIALS)	DATE OF CONTROL ACTION &/OR REMOVAL
Synthetic Mineral Fibres (SMF)											
-	Internal, main room under bench – Rheem 25L hot water unit	Insulation core	85	No	Bonded	**Assumed SMF**	Good	<1m^2	Remove in accordance with NOHSC:2006 (1990)	19/04/2023 JBS&G RS & JG	
Inaccessible areas											
At the time of inspection there no access to the ceiling cavity of the structure									Prior to demolition it is recommended the ceiling cavity is inspected and any suspected hazardous materials are sampled by a suitably qualified competent person prior to any works commencing.	19/04/2023 JBS&G RS & JG	

JBS&G SAMPLE NO.	LOCATION	MATERIAL DESCRIPTION	PHOTO NUMBER	ACCESSIBLE AREA?	FRIABILITY	ANALYTICAL RESULT	MATERIAL CONDITION	APPROX. QUANTITY	ACTION REQUIRED	DATE OF LAST INSPECTION (INCL. COMPANY NAME AND INITIALS)	DATE OF CONTROL ACTION &/OR REMOVAL
Asbestos Containing Materials (ACM)											
No ACM were identified at the time of inspection									No further action required	19/04/2023 JBS&G RS & JG	
No Asbestos Detected											
D-A01	Internal, east demountable – floor	Beige vinyl sheet	87	Yes	-	No Asbestos Detected	-	-	No further action required	19/04/2023 JBS&G RS & JG	
D-AD01	Internal, east demountable – floor	Settled dust	88	Yes	-	No Asbestos detected	-	-	No further action required	19/04/2023 JBS&G RS & JG	
Lead Containing Dust											
D-LD01	Internal, east demountable – floor	Settled dust	88	Yes	-	49 mg/kg	-	-	No further action required	19/04/2023 JBS&G RS & JG	
Non-Lead Based Paints											
XRF	All accessible surfaces throughout the internal and external of the structure	Various paint systems	-	Yes	-	<0.01 mg/cm^2	-	-	No further action required	19/04/2023 JBS&G RS & JG	
Polychlorinated Biphenyls (PCBs)											
No PCBs containing materials were identified at the time of inspection									No further action required	19/04/2023 JBS&G RS & JG	
Synthetic Mineral Fibres (SMF)											
-	Internal east demountable, under sink – Rheem 25L hot water unit	Insulation core	89	No	Bonded	**Assumed SMF**	Good	<1m^2	Remove in accordance with NOHSC:2006 (1990)	19/04/2023 JBS&G RS & JG	
-	Internal, walls	Insulation	-	No	Bonded	**Assumed SMF**	Good	Unknown	Remove in accordance with NOHSC:2006 (1990)	19/04/2023 JBS&G RS & JG	

JBS&G SAMPLE NO.	LOCATION	MATERIAL DESCRIPTION	PHOTO NUMBER	ACCESSIBLE AREA?	FRIABILITY	ANALYTICAL RESULT	MATERIAL CONDITION	APPROX. QUANTITY	ACTION REQUIRED	DATE OF LAST INSPECTION (INCL. COMPANY NAME AND INITIALS)	DATE OF CONTROL ACTION &/OR REMOVAL
Inaccessible areas											
At the time of inspection there no access internals of the west demountable									Prior to demolition it is recommended the western demountable is inspected and any suspected hazardous materials are sampled by a suitably qualified competent person prior to any works commencing.	19/04/2023 JBS&G RS & JG	

Hazardous Materials Register (Rev 4)
Tennis Court
87-129 Pennant Hills Road, North Parramatta NSW 2151
Date of Production – 16th May 2024

JBS&G SAMPLE NO.	LOCATION	MATERIAL DESCRIPTION	PHOTO NUMBER	ACCESSIBLE AREA?	FRIABILITY	ANALYTICAL RESULT	MATERIAL CONDITION	APPROX. QUANTITY	ACTION REQUIRED	DATE OF LAST INSPECTION (INCL. COMPANY NAME AND INITIALS)	DATE OF CONTROL ACTION &/OR REMOVAL
Asbestos Containing Materials (ACM)											
~~TC-A05~~	~~External, west grandstand – ground surfaces and in situ soils to a depth of 0.2m below ground surface~~	~~Fibre cement debris~~	~~92~~	~~Partially~~	~~Friable and Non-friable~~	~~**Chrysotile Asbestos Detected**~~	~~Poor~~	~~Area effected 350m²~~	~~Remove as a priority. Works to be completed under controlled conditions by Class A or Class B licensed removal contractor in accordance with SWNSW 2022a~~	17/04/2024 JBS&G RS	Removed in April 2024. Refer to **Appendix F** JBS&G Clearance Report (66596-159,296)
No Asbestos Detected											
TC-A01	External, standalone BBQ – backing board	Compressed fibre cement sheeting	93	Yes	-	No Asbestos Detected	-	-	No further action required	14/07/2023 JBS&G RS	
TC-A02	Internal, north covered seating area – ceiling liner	Fibre cement sheeting	94	Yes	-	No Asbestos detected	-	-	No further action required	14/07/2023 JBS&G RS	
TC-A03	Tennis court, concrete floor – expansion join	Grey mastic	-	Yes	-	No Asbestos detected	-	-	No further action required	14/07/2023 JBS&G RS	
TC-A04	Tennis court – edging	Bituminous mastic	-	Yes	-	No Asbestos detected	-	-	No further action required	14/07/2023 JBS&G RS	
Lead Containing Dust											
No lead containing dust were identified at the time of inspection										14/07/2023 JBS&G RS	
Non-Lead Based Paints											
TC-L01	Umpire seats and tennis court net frame	Black paint	95	Yes	-	0.02% w/w	-	-	No further action required	14/07/2023 JBS&G RS	
XRF	Remaining surfaces throughout the internal and external of the structure	Various paint systems	-	Yes	-	<0.01 mg/cm²	-	-	No further action required	14/07/2023 JBS&G RS	
Polychlorinated Biphenyls (PCBs)											
No PCBs containing materials were identified at the time of inspection										14/07/2023 JBS&G RS	

JBS&G SAMPLE NO.	LOCATION	MATERIAL DESCRIPTION	PHOTO NUMBER	ACCESSIBLE AREA?	FRIABILITY	ANALYTICAL RESULT	MATERIAL CONDITION	APPROX. QUANTITY	ACTION REQUIRED	DATE OF LAST INSPECTION (INCL. COMPANY NAME AND INITIALS)	DATE OF CONTROL ACTION &/OR REMOVAL
Synthetic Mineral Fibres (SMF)											
No SMF containing materials were identified at the time of inspection										14/07/2023 JBS&G RS	
Inaccessible areas											
At the time of inspection there no access to the ceiling cavity of the north covered seating area									Prior to demolition it is recommended the ceiling cavity is inspected and any suspected hazardous materials are sampled by a suitably qualified competent person prior to any works commencing.	14/07/2023 JBS&G RS	

JBS&G SAMPLE NO.	LOCATION	MATERIAL DESCRIPTION	PHOTO NUMBER	ACCESSIBLE AREA?	FRIABILITY	ANALYTICAL RESULT	MATERIAL CONDITION	APPROX. QUANTITY	ACTION REQUIRED	DATE OF LAST INSPECTION (INCL. COMPANY NAME AND INITIALS)	DATE OF CONTROL ACTION &/OR REMOVAL
Asbestos Containing Materials (ACM)											
No ACM containing materials were identified at the time of inspection										14/07/2023 JBS&G RS	
Lead Containing Dust											
No lead containing dust were identified at the time of inspection										14/07/2023 JBS&G RS	
Non-Lead Based Paints											
SB-L01	Fire Hydrant	Red paint	98	Yes	-	0.02% w/w	-	-	No further action required	14/07/2023 JBS&G RS	
XRF	Remaining surfaces throughout the internal and external of the structure	Various paint systems	-	Yes	-	<0.01 mg/cm^2	-	-	No further action required	14/07/2023 JBS&G RS	
Polychlorinated Biphenyls (PCBs)											
No PCBs containing materials were identified at the time of inspection										14/07/2023 JBS&G RS	
Synthetic Mineral Fibres (SMF)											
No SMF containing materials were identified at the time of inspection										14/07/2023 JBS&G RS	

JBS&G SAMPLE NO.	LOCATION	MATERIAL DESCRIPTION	PHOTO NUMBER	ACCESSIBLE AREA?	FRIABILITY	ANALYTICAL RESULT	MATERIAL CONDITION	APPROX. QUANTITY	ACTION REQUIRED	DATE OF LAST INSPECTION (INCL. COMPANY NAME AND INITIALS)	DATE OF CONTROL ACTION &/OR REMOVAL
Asbestos Containing Materials (ACM)											
No ACM containing materials were identified at the time of inspection										14/07/2023 JBS&G RS	
No Asbestos Detected											
DBH-A01	Preformed wall of service pit	Compressed fibre cement	100	Yes	-	No Asbestos Detected	-	-	No further action required	14/07/2023 JBS&G RS	
Lead Containing Dust											
No lead containing dust were identified at the time of inspection										14/07/2023 JBS&G RS	
Non-Lead Based Paints											
XRF	Remaining surfaces throughout the internal and external of the structure	Various paint systems	-	Yes	-	<0.01 mg/cm^2	-	-	No further action required	14/07/2023 JBS&G RS	
Polychlorinated Biphenyls (PCBs)											
No PCBs containing materials were identified at the time of inspection										14/07/2023 JBS&G RS	
Synthetic Mineral Fibres (SMF)											
No SMF containing materials were identified at the time of inspection										14/07/2023 JBS&G RS	

JBS&G SAMPLE NO.	LOCATION	MATERIAL DESCRIPTION	PHOTO NUMBER	ACCESSIBLE AREA?	FRIABILITY	ANALYTICAL RESULT	MATERIAL CONDITION	APPROX. QUANTITY	ACTION REQUIRED	DATE OF LAST INSPECTION (INCL. COMPANY NAME AND INITIALS)	DATE OF CONTROL ACTION &/OR REMOVAL
Asbestos Containing Materials (ACM)											
R4-A01	External, north garage structure – walls	Fibre cement sheeting	102	Yes	Non-Friable	**Chrysotile Asbestos Detected**	Poor	100m²	Remove prior to demolition. Works to be completed under controlled conditions by Class A or Class B licensed removal contractor in accordance with SWNSW 2022a	14/07/2023 JBS&G RS	
-	External, north garage structure – roof	Corrugated fibre cement sheeting	102	Yes	Non-Friable	**Assumed Asbestos**	Poor	40m²		14/07/2023 JBS&G RS	
Lead Based Paints											
R4-L01	External – window frames	White paint	102	Yes	-	**0.15% w/w**	Poor	2 m²	Remove loose and flaking paint prior to demolition by an experienced hazardous materials removal contractor in accordance with AS4361.2-2017. Remaining paint well adhered to the building materials may be demolished if care is taken not to spread paint flakes to surrounding areas. Alternatively, remove all paint prior to demolition by an experienced hazardous materials removal contractor in accordance with AS4361.2-2017.	14/07/2023 JBS&G RS	
Polychlorinated Biphenyls (PCBs)											
No PCBs containing materials identified at the time of inspection										14/07/2023 JBS&G RS	
Synthetic Mineral Fibres (SMF)											
No SMF containing materials identified at the time of inspection										14/07/2023 JBS&G RS	
Inaccessible areas											
At the time of inspection there no access to the internal north garage structure									Prior to demolition it is recommended the structure is inspected and any suspected hazardous materials are sampled by a suitably qualified competent person prior to any works commencing.	14/07/2023 JBS&G RS	

Appendix B Photographs

Photo 1: Overview of the K-2 Building

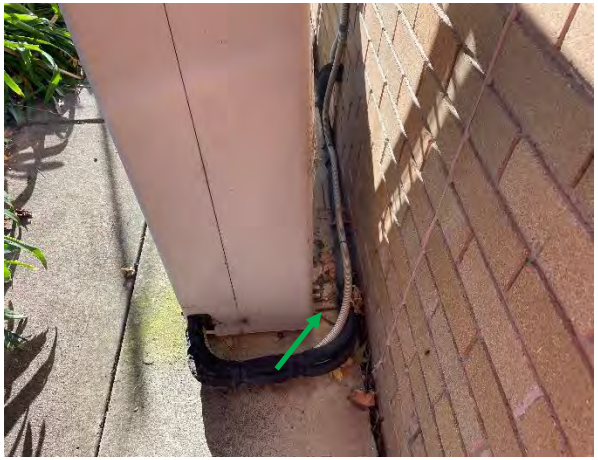

Photo 2: External northern wall, air conditioning unit feet, packers – Non-asbestos containing fibre cement sheeting

Photo 3: External, brick and concrete slab interface, expansion joint – Bituminous mastic

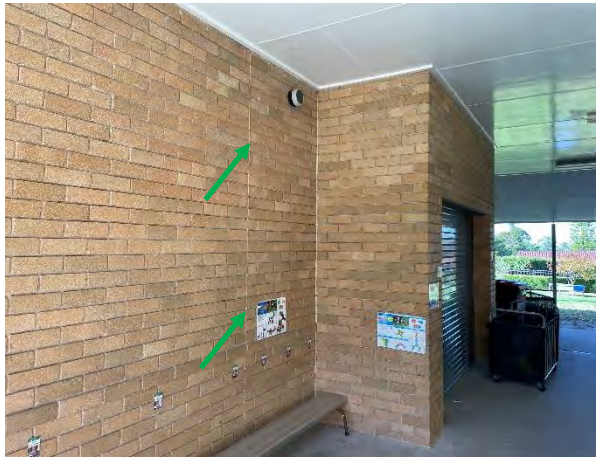

Photo 4: External, brick wall, expansion joint – Beige mastic

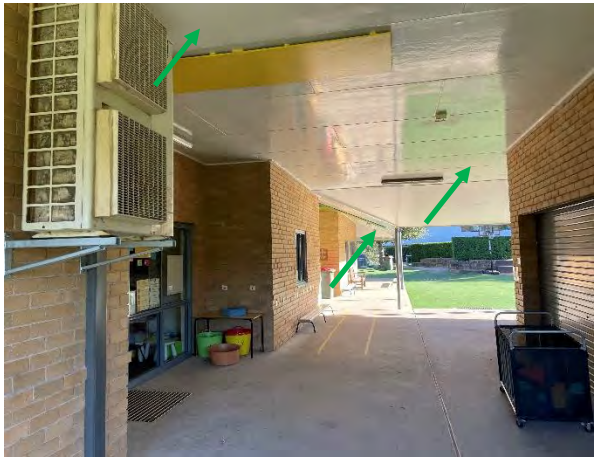

Photo 5: External awning, ceiling lining – Non-asbestos containing fibre cement sheeting

Photo 6: External, eaves – Non-asbestos containing fibre cement sheeting

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Source:

Rev	Description	Drn.	Date
4	Original Issue -	RS	29/04/2024

JBS&G

Appendix B: Photographs

Client: TSA Management Pty Ltd

Project: The Kings School

Job No: 61452 File Name: Rev 4 App B - Photo Log

Photo 7: External, under cloak verge – Non-asbestos containing fibre cement sheeting

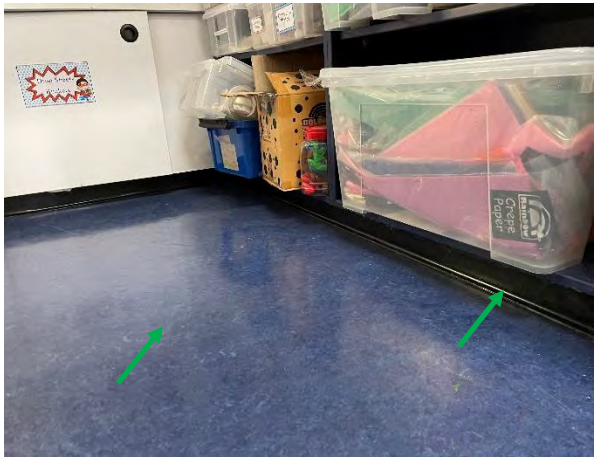

Photo 8: Internal, northern classroom wet area floor and kick board – Non-asbestos containing blue vinyl sheet and black vinyl sheet

Photo 9: Internal, teachers kitchenette, floor – Non-asbestos containing timber look vinyl sheet

Photo 10: Internal, student bathrooms, wall – Non-asbestos containing fibre cement sheeting

Photo 11: Internal ceiling cavity, roof joist and brick wall interface, packers and debris – Non-asbestos containing fibre cement sheeting

Photo 12: External gables ends – Non-asbestos containing fibre cement cladding

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Source:			
4	Original Issue -	RS	29/04/2024
Rev	Description	Drn.	Date

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Appendix B: Photographs

Client: TSA Management Pty Ltd

Project: The Kings School

Job No: 61452 File Name: Rev 4 App B - Photo Log

Photo 13: Internal southwest classroom wet area, floor – Non-asbestos containing beige vinyl sheet

Photo 14: Internal east wing classroom wet area and playroom, floor – Non-asbestos containing red vinyl sheet

Photo 15: External, downpipes – Non-lead based grey paint

Photo 16: Internal ceiling cavity – Assumed SMF sarking, assumed SMF insulation batts and assumed SMF air conditioning ducting

Photo 17: Internal, staff kitchenette, Zipp hydrotap – Assumed SMF insulation core

Photo 18: Internal ceiling cavity above bathroom, 50L hot water unit – Assumed SMF insulation core

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Rev	Description	Drn.	Date
4	Original Issue -	RS	29/04/2024

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Appendix B: Photographs

Client: TSA Management Pty Ltd

Project: The Kings School

Job No: 61452 File Name: Rev 4 App B - Photo Log

Photo 19: Overview K-2 Playground

Photo 20: External, sandstone retaining wall, joins – Non-asbestos containing mortar

Photo 21: Overview of Performing Arts Refurbishment – External

Photo 22: Overview of Performing Arts Refurbishment – Internal

Photo 23: External, entrance way sandstone blocks – Non-asbestos containing mastic

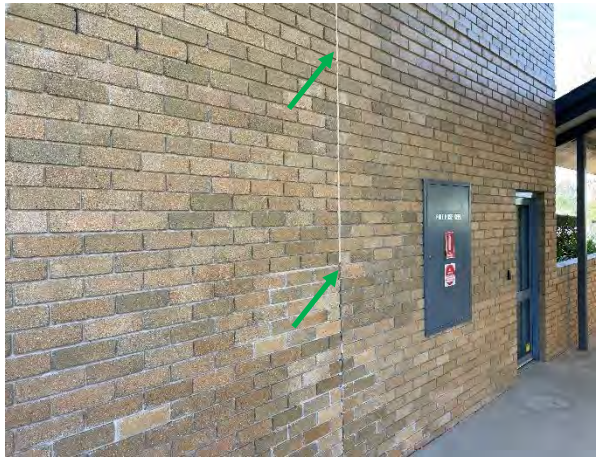

Photo 24: External, exposed brick wall expansion join – Non-asbestos containing beige mastic

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Rev	Description	Drn.	Date

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Appendix B: Photographs

Client: TSA Management Pty Ltd

Project: The Kings School

Job No: 61452 File Name: Rev 4 App B - Photo Log

Photo 25: External, awning ceiling liner and under-cloak verge – Non-asbestos containing fibre cement sheeting

Photo 26: External, concrete foot path expansion join – Non-asbestos containing bituminous mastic

Photo 27: Internal, kitchenette floor – Non-asbestos containing beige vinyl sheet

Photo 28: External, downpipe – Non-lead based grey paint

Photo 29: Internal, ceiling cavity under side of roof – Assumed SMF containing sarking

Photo 30: Internal, ceiling cavity above kitchenette 50L hot water heater – Assumed SMF insulation core

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Appendix B: Photographs

Client: TSA Management Pty Ltd

Project: The Kings School

Job No: 61452 File Name: Rev 4 App B - Photo Log

Photo 31: Overview of Shed 1

Photo 32: External windows – Non-asbestos containing putty
External timber window frame and timber cladding – Lead based white paint

Photo 33: Internal, floor – Elevated concentrations of lead within settled dust this dust did not contain asbestos

Photo 34: Overview of Shed 2

Photo 35: Internal, floor – Elevated concentrations of lead within settled dust, this dust did not contain asbestos

Photo 36: External, walls, timber window, window frame, door and door frame – Lead based cream paint and lead based white paint with green undercoat

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Appendix B: Photographs

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Job No: 61452 File Name: Rev 4 App B - Photo Log

Photo 37: Overview of Shed 3

Photo 38: External, window caulking – Non-asbestos containing white mastic

Photo 39: External, walls, windows, window frame, door and door frame – Cream lead based paint and lead based white paint with green undercoat

Photo 40: Internal walls – Lead based white paints with blue paint undercoat

Photo 41: Overview of Shed 4

Photo 42: Internal, ceiling and wall liner behind plywood – Asbestos containing fibre cement sheeting

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Appendix B: Photographs

Client: TSA Management Pty Ltd

Project: The Kings School

Job No: 61452 File Name: Rev 4 App B - Photo Log

Photo 43: External, walls – Lead based white paint with green undercoat

Photo 44: External, window frame – Lead based white paint

Photo 45: Overview of Shed 5

Photo 46: Cattle/sheep crush – Non-lead based yellow paint

Photo 47: Overview of Outhouse

Photo 48: Internal, outhouse floor – Elevated concentrations of lead within settled dust, this dust did not contain asbestos

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Appendix B: Photographs

Client: TSA Management Pty Ltd

Project: The Kings School

Job No: 61452 File Name: Rev 4 App B - Photo Log

Photo 49: Overview of Chicken Coop

Photo 50: Overview of Sheep Shearing Shed

Photo 51: Overview of Green House

Photo 52: Overview of Grey Shed

Photo 53: Internal, underside of roof – Assumed SMF sarking

Photo 54: Overview of Seed Shed

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Appendix B: Photographs

Client: TSA Management Pty Ltd

Project: The Kings School

Job No: 61452 File Name: Rev 4 App B - Photo Log

Photo 55: Overview of Hawkhurst cottage

Photo 56: External, gable end, under cloaked verge – Assumed asbestos containing fibre cement sheeting

Photo 57: Overview of Angliss cottage

Photo 58: External – Assumed asbestos containing fibre cement sheeting to the under cloaked verge and eaves with assumed SMF insulation core to the hot water unit

Photo 59: Overview of Soccer equipment storeroom

Photo 60: Overview of the internals Soccer equipment storeroom

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Appendix B: Photographs

Client: TSA Management Pty Ltd

Project: The Kings School

Job No: 61452 File Name: Rev 4 App B - Photo Log

Photo 61: Concrete slab, expansion joint – Non-asbestos containing bituminous mastic

Photo 62: External, eaves – Non-asbestos containing fibre cement sheeting

Photo 63: Internal, northern dividing wall – Non-asbestos containing fibre cement sheeting

Photo 64: Internal, floor – Non-asbestos containing settled dust, this dust has lead concentrations below the adopted site criteria

Photo 65: Overview of Shipping container #1

Photo 66: External, middle and east shipping container – Lead based red paint with blue undercoat and Lead based green paint with red paint undercoat

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4	Original Issue -	RS	29/04/2024

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Appendix B: Photographs

Client: TSA Management Pty Ltd

Project: The Kings School

Job No: 61452 File Name: Rev 4 App B - Photo Log

Photo 67: Overview of soccer bathrooms

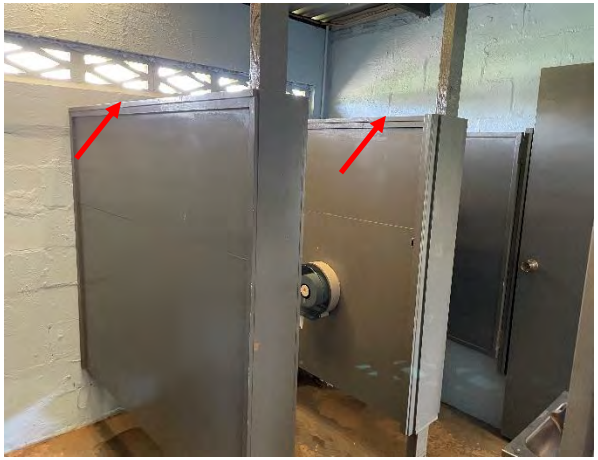

Photo 68: Internal atop bathroom divider – Former asbestos containing settled dust with elevated lead concentrations

Photo 69: Internal, surfaces and cavities throughout structure – Former assumed asbestos containing settled dust with elevated lead concentrations

Photo 70: External northern wall covered area, 135L hot water heater – Assumed SMF insulation core

Photo 71: Overview of Old Boys Clubhouse

Photo 72: Overview of Old Boys Clubhouse

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Client: TSA Management Pty Ltd

Project: The Kings School

Job No: 61452 File Name: Rev 4 App B - Photo Log

Photo 73: External, ground surface around structure – Asbestos containing fibre cement debris

Photo 74: External main portion of structure and southern veranda, joist and footing interface – Assumed asbestos containing fibre cement packers

Photo 75: External, ground surface around structure – Asbestos containing corrugated fibre cement debris

Photo 76: External southern wall, fuse box – Asbestos containing electrical backing board

Photo 77: Internal upper half of wall – Asbestos containing fibre cement sheeting

Photo 78: Internal, ceiling lining – Assumed asbestos containing fibre cement sheeting

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Client: TSA Management Pty Ltd

Project: The Kings School

Job No: 61452 File Name: Rev 4 App B - Photo Log

Photo 79: External northern veranda, joist and footing interface – Non-asbestos containing fibre cement packers

Photo 80: Internal, floor and surfaces throughout – Elevated lead concentrations within settled dust. This dust does not contain asbestos

Photo 81: External, timber surfaces – Lead based white paint

Photo 82: External, timber window frame and roof timbers – Lead based green paint

Photo 83: Internal, timber picture rail and window frame – Lead based red paint

Photo 84: Internal north western room, timber clad walls and ceiling – Lead based white paint

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Rev	Description	Drn.	Date

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Appendix B: Photographs

Client: TSA Management Pty Ltd

Project: The Kings School

Job No: 61452 File Name: Rev 4 App B - Photo Log

Photo 85: Internal main room under bench, 25L hot water unit – Assumed SMF insulation core

Photo 86: Overview of the demountables

Photo 87: Internal, floor – Non-asbestos containing beige vinyl sheet

Photo 88: Internal – Non-asbestos containing settled dust with lead concentrations below the adopted site criteria

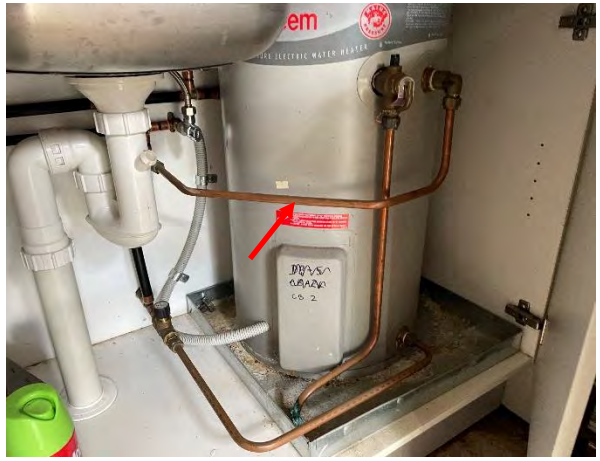

Photo 89: Internal under sink, Rheem 25L hot water unit – Assumed SMF insulation core

Photo 90: Overview of Tennis Courts

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Client: TSA Management Pty Ltd

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Job No: 61452 File Name: Rev 4 App B - Photo Log

Photo 91: Overview of Tennis Courts

Photo 92: External, west grandstand ground surface, with former asbestos containing fibre cement sheet debris

Photo 93: External, west grandstand ground surface, with former asbestos containing fibre cement sheet debris

Photo 94: External, stand alone BBQ backing board – Non-Asbestos containing compressed fibre cement sheeting

Photo 95: Internal, north covered seating area ceiling liner – Non-asbestos containing fibre cement sheeting. No access to ceiling voic.

Photo 96: Tennis court, umpire seats and tennis court net frame – Non-lead based black paint

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Appendix B: Photographs

Client: TSA Management Pty Ltd

Project: The Kings School

Job No: 61452 File Name: Rev 4 App B - Photo Log

Photo 97: Overview of Proposed STEAM Building

Photo 98: Fire hydrant – Non-lead based red paint

Photo 99: Overview of Proposed Day Boy House

Photo 100: Preformed wall of service pit – Non-asbestos containing compressed fibre cement

Photo 101: Overview of Proposed Access Road and Car Park

Photo 102: North garage
- Asbestos containing fibre cement sheeting to external walls
- Assumed asbestos containing corrugated fibre cement roof
- Lead based white paint to external windows

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Appendix B: Photographs

Client: TSA Management Pty Ltd

Project: The Kings School

Job No: 61452 File Name: Rev 4 App B - Photo Log

Appendix C Laboratory Analysis Reports and Chain of Custody Documentation

Certificate of Analysis

eurofins | Environment Testing

NATA Accredited
Accreditation Number 1261
Site Number 18217

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

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention:	Rob Sharp
Report	982382-AID
Project Name	PARRAMATTA
Project ID	64152
Received Date	Mar 19, 2023
Date Reported	Apr 28, 2023

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 PARRAMATTA
Project ID 64152
Date Sampled Apr 18, 2023 to Apr 19, 2023
Report 982382-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
K2 - A01	23-Ap0041341	Apr 18, 2023	Approximate Sample 7g / 40x20x5mm Sample consisted of: Grey fibre plaster cement material	No asbestos detected. Organic fibre detected. No trace asbestos detected.
K2 - A02	23-Ap0041342	Apr 18, 2023	Approximate Sample 3g / 50x25x2mm Sample consisted of: Black fibro bituminous material	No asbestos detected. Organic fibre detected. No trace asbestos detected.
K2 - A03	23-Ap0041343	Apr 18, 2023	Approximate Sample 2g / 15x20x7mm Sample consisted of: Brown sealant material	No asbestos detected. No trace asbestos detected.
K2 - A04	23-Ap0041344	Apr 18, 2023	Approximate Sample <1g / 12x10x2mm Sample consisted of: Grey fibre plaster cement material and white coating	No asbestos detected. Organic fibre detected. No trace asbestos detected.
K2 - A05	23-Ap0041345	Apr 18, 2023	Approximate Sample 8g / 35x35x5mm Sample consisted of: Grey fibre plaster cement material	No asbestos detected. Organic fibre detected. No trace asbestos detected.
K2 - A06	23-Ap0041346	Apr 18, 2023	Approximate Sample 2g / 25x10x2mm Sample consisted of: Magenta brittle vinyl sheet with woven fibrous backing	No asbestos detected. Organic fibre detected. No trace asbestos detected.
K2 - A07	23-Ap0041347	Apr 18, 2023	Approximate Sample 1g / 30x5x2mm Sample consisted of: Black rubber sheet and amber glue	No asbestos detected. No trace asbestos detected.
K2 - A08	23-Ap0041348	Apr 18, 2023	Approximate Sample 2g / 25x10x3mm Sample consisted of: Grey flexible linoleum sheet, amber glue and cement attachment	No asbestos detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
K2 - A09	23-Ap0041349	Apr 18, 2023	Approximate Sample 1g / 12x8x2mm Sample consisted of: Brown fibre plaster material and white coating	No asbestos detected. Organic fibre detected. No trace asbestos detected.
K2 - A10	23-Ap0041350	Apr 18, 2023	Approximate Sample 4g / 30x15x5mm Sample consisted of: Grey fibre plaster cement material	No asbestos detected. Organic fibre detected. No trace asbestos detected.
K2 - A11	23-Ap0041351	Apr 18, 2023	Approximate Sample 1g / 15x10x3mm Sample consisted of: Grey fibre plaster cement material	No asbestos detected. Organic fibre detected. No trace asbestos detected.
K2 - A12	23-Ap0041352	Apr 18, 2023	Approximate Sample 1g / 10x7x3mm Sample consisted of: Yellow brittle vinyl sheet and woven fibrous backing	No asbestos detected. Organic fibre detected. No trace asbestos detected.
K2 - A13	23-Ap0041353	Apr 18, 2023	Approximate Sample 1g / 20x7x3mm Sample consisted of: Orange flexible vinyl sheet, amber glue and cement	No asbestos detected. No trace asbestos detected.
K2 - AD01	23-Ap0041354	Apr 18, 2023	Approximate Sample 3g Sample consisted of: Dust particles, fragments of soft fibrous material, plaster, plant residue, paint flakes and pd	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
K2 - AD02	23-Ap0041355	Apr 18, 2023	Approximate Sample 3g Sample consisted of: Dust particles, fragments of soft fibrous material, plaster, cement, sand, paint flakes, fibre plaster material and organic debris	No asbestos detected at the reporting limit of 0.01% w/w. Synthetic mineral fibre detected. Organic fibre detected. No trace asbestos detected.
S1 - A01	23-Ap0041359	Apr 18, 2023	Approximate Sample 6g / 40x20x5mm Sample consisted of: Yellow mastic material	No asbestos detected. No trace asbestos detected.
S1 - AD01	23-Ap0041361	Apr 18, 2023	Approximate Sample 9g Sample consisted of: Dust particles, fragments of plaster, wood chips, sand, mastic material, cement, fibre plaster material and organic debris	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
S2 - AD01	23-Ap0041365	Apr 18, 2023	Approximate Sample 6g Sample consisted of: Dust particles, fragments of corroded metal, paint flakes, plaster in fragments and powder form, sand and organic debris	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
S3 - A01	23-Ap0041370	Apr 18, 2023	Approximate Sample 3g / 30x10x7mm Sample consisted of: Yellow mastic material	No asbestos detected. No trace asbestos detected.
S3 - AD01	23-Ap0041371	Apr 18, 2023	Approximate Sample 15g Sample consisted of: Dust particles, fragments of plaster, corroded metal, plant residue, soft fibrous material, fibre plaster material and organic debris	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
OH - AD01	23-Ap0041373	Apr 18, 2023	Approximate Sample 3g Sample consisted of: Dust particles, fragments of plaster, corroded metal, paint flakes, wood chips and organic debris	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
SB - A01	23-Ap0041375	Apr 18, 2023	Approximate Sample 1g / 15x10x3mm Sample consisted of: Grey fibre plaster cement material and grey coating	No asbestos detected. Organic fibre detected. No trace asbestos detected.
SB - AD01	23-Ap0041376	Apr 18, 2023	Approximate Sample 0.27g Sample consisted of: Dust particles, fragments of soft fibrous material, corroded metal, plaster, plant residue, sand and organic debris	Chrysotile asbestos detected in the form of loose fibre bundles. Approximate raw weight of asbestos containing material = 0.00020g* Total estimated asbestos content in the sample = 0.00020g* Total estimated asbestos concentration = 0.074% w/w* Organic fibre detected. No trace asbestos detected.
D - A01	23-Ap0041378	Apr 19, 2023	Approximate Sample 2g / 15x10x2mm Sample consisted of: Off-white flexible vinyl sheet and amber glue	No asbestos detected. No trace asbestos detected.
OB - A01	23-Ap0041379	Apr 19, 2023	Approximate Sample 27g / 60x40x5mm Sample consisted of: Grey fibre plaster cement material	No asbestos detected. Organic fibre detected. No trace asbestos detected.
OB - A02	23-Ap0041380	Apr 19, 2023	Approximate Sample 7g / 30x20x5mm Sample consisted of: Grey compressed fibre cement material	Chrysotile asbestos detected.
OB - A03	23-Ap0041381	Apr 19, 2023	Approximate Sample 6g / 25x15x5mm Sample consisted of: Grey fibre cement material	Chrysotile and amosite asbestos detected.
OB - A04	23-Ap0041382	Apr 19, 2023	Approximate Sample <1g / 12x10x2mm Sample consisted of: Black hard fibrous material	Chrysotile asbestos detected.
OB - A05	23-Ap0041383	Apr 19, 2023	Approximate Sample 2g / 20x10x2mm Sample consisted of: Grey fibre cement material	Chrysotile asbestos detected.
OB - AD01	23-Ap0041384	Apr 19, 2023	Approximate Sample 4g Sample consisted of: Dust particles, fragments of corroded metal, soft fibrous material, plaster, cement, paint flakes and organic debris	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
SE - A01	23-Ap0041390	Apr 19, 2023	Approximate Sample 2g / 20x10x5mm Sample consisted of: Black fibrp bituminous material	No asbestos detected. Organic fibre detected. No trace asbestos detected.
SE - A02	23-Ap0041391	Apr 19, 2023	Approximate Sample <1g / 10x7x2mm Sample consisted of: Grey fibre plaster material	No asbestos detected. Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
SE - A03	23-Ap0041392	Apr 19, 2023	Approximate Sample <1g / 10x8x2mm Sample consisted of: Grey fibre plaster cement material	No asbestos detected. Organic fibre detected. No trace asbestos detected.
SE - AD01	23-Ap0041393	Apr 19, 2023	Approximate Sample 3g Sample consisted of: Dust particles, fragments of cement, brick, soft fibrous material, plant residue, corroded metal, fibre plaster material and organic debris	No asbestos detected at the reporting limit of 0.01% w/w. Synthetic mineral fibre detected. Organic fibre detected. No trace asbestos detected.
D - AD01	23-Ap0041401	Apr 19, 2023	Approximate Sample 3g Sample consisted of: Dust particles, fragments of Brown, cement, soft fibrous material, bitumen, plastic, fibre plaster material, sand and organic debris	No asbestos detected at the reporting limit of 0.01% w/w. Synthetic mineral fibre 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	Apr 20, 2023	Indefinite
Asbestos - LTM-ASB-8020	Sydney	Apr 20, 2023	Indefinite

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NATA# 1261 Site# 25403

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

Canberra
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Mitchell
ACT 2911
Tel: +61 2 6113 8091
NATA# 1261 Site# 25466

Brisbane
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Murarrie
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Tel: +61 7 3902 4600
NATA# 1261 Site# 20794

Newcastle
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Mayfield West NSW 2304
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NATA# 1261
Site# 25079 & 25289

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: PARRAMATTA
Project ID: 64152

Order No.:
Report #: 982382
Phone: 02 8245 0300
Fax:

Received: Apr 20, 2023 2:32 PM
Due: Apr 28, 2023
Priority: 5 Day
Contact Name: Rob Sharp

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - AS4964	Asbestos Absence /Presence	CANCELLED	Lead	Lead (% w/w)
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X
External Laboratory										
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**					
1	K2 - A01	Apr 18, 2023		Building Materials	S23-Ap0041341		X			
2	K2 - A02	Apr 18, 2023		Building Materials	S23-Ap0041342		X			
3	K2 - A03	Apr 18, 2023		Building Materials	S23-Ap0041343		X			
4	K2 - A04	Apr 18, 2023		Building Materials	S23-Ap0041344		X			
5	K2 - A05	Apr 18, 2023		Building Materials	S23-Ap0041345		X			
6	K2 - A06	Apr 18, 2023		Building Materials	S23-Ap0041346		X			
7	K2 - A07	Apr 18, 2023		Building Materials	S23-Ap0041347		X			
8	K2 - A08	Apr 18, 2023		Building Materials	S23-Ap0041348		X			

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

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: PARRAMATTA
Project ID: 64152

Order No.:
Report #: 982382
Phone: 02 8245 0300
Fax:

Received: Apr 20, 2023 2:32 PM
Due: Apr 28, 2023
Priority: 5 Day
Contact Name: Rob Sharp

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - AS4964	Asbestos Absence /Presence	CANCELLED	Lead	Lead (% w/w)
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X
9	K2 - A09	Apr 18, 2023		Building Materials	S23-Ap0041349		X			
10	K2 - A10	Apr 18, 2023		Building Materials	S23-Ap0041350		X			
11	K2 - A11	Apr 18, 2023		Building Materials	S23-Ap0041351		X			
12	K2 - A12	Apr 18, 2023		Building Materials	S23-Ap0041352		X			
13	K2 - A13	Apr 18, 2023		Building Materials	S23-Ap0041353		X			
14	K2 - AD01	Apr 18, 2023		Dust	S23-Ap0041354	X				
15	K2 - AD02	Apr 18, 2023		Dust	S23-Ap0041355	X				
16	K2 - LD01	Apr 18, 2023		Dust	S23-Ap0041356				X	
17	K2 - LD02	Apr 18, 2023		Dust	S23-Ap0041357				X	
18	K2 - L01	Apr 18, 2023		Paint	S23-Ap0041358					X
19	S1 - A01	Apr 18, 2023		Building Materials	S23-Ap0041359		X			
20	S1 - L01	Apr 18, 2023		Paint	S23-Ap0041360					X

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Sample Detail						Asbestos - AS4964	Asbestos Absence /Presence	CANCELLED	Lead	Lead (% w/w)
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X
21	S1 - AD01	Apr 18, 2023		Dust	S23-Ap0041361	X				
22	S1 - LD01	Apr 18, 2023		Dust	S23-Ap0041362				X	
23	S2 - L01	Apr 18, 2023		Paint	S23-Ap0041363					X
24	S2 - L02	Apr 18, 2023		Paint	S23-Ap0041364					X
25	S2 - AD01	Apr 18, 2023		Dust	S23-Ap0041365	X				
26	S2 - LD01	Apr 18, 2023		Dust	S23-Ap0041366				X	
27	S3 - L01	Apr 18, 2023		Paint	S23-Ap0041367					X
28	S3 - L02	Apr 18, 2023		Paint	S23-Ap0041368					X
29	S3 - L03	Apr 18, 2023		Paint	S23-Ap0041369					X
30	S3 - A01	Apr 18, 2023		Building Materials	S23-Ap0041370		X			
31	S3 - AD01	Apr 18, 2023		Dust	S23-Ap0041371	X				
32	S3 - LD01	Apr 18, 2023		Dust	S23-Ap0041372				X	
33	OH - AD01	Apr 18, 2023		Dust	S23-Ap0041373	X				
34	OH - LD01	Apr 18, 2023		Dust	S23-Ap0041374				X	
35	SB - A01	Apr 18, 2023		Building	S23-Ap0041375		X			

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Received: Apr 20, 2023 2:32 PM
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Priority: 5 Day
Contact Name: Rob Sharp

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - AS4964	Asbestos Absence /Presence	CANCELLED	Lead	Lead (% w/w)
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X
				Materials						
36	SB - AD01	Apr 18, 2023		Dust	S23-Ap0041376	X				
37	SB - LD01	Apr 18, 2023		Dust	S23-Ap0041377				X	
38	D - A01	Apr 19, 2023		Building Materials	S23-Ap0041378		X			
39	OB - A01	Apr 19, 2023		Building Materials	S23-Ap0041379		X			
40	OB - A02	Apr 19, 2023		Building Materials	S23-Ap0041380		X			
41	OB - A03	Apr 19, 2023		Building Materials	S23-Ap0041381		X			
42	OB - A04	Apr 19, 2023		Building Materials	S23-Ap0041382		X			
43	OB - A05	Apr 19, 2023		Building Materials	S23-Ap0041383		X			
44	OB - AD01	Apr 19, 2023		Dust	S23-Ap0041384	X				
45	OB - LD01	Apr 19, 2023		Dust	S23-Ap0041385				X	
46	OB - L01	Apr 19, 2023		Paint	S23-Ap0041386					X

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Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - AS4964	Asbestos Absence /Presence	CANCELLED	Lead	Lead (% w/w)
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X
47	OB - L02	Apr 19, 2023		Paint	S23-Ap0041387					X
48	OB - L03	Apr 19, 2023		Paint	S23-Ap0041388					X
49	OB - L04	Apr 19, 2023		Paint	S23-Ap0041389					X
50	SE - A01	Apr 19, 2023		Building Materials	S23-Ap0041390		X			
51	SE - A02	Apr 19, 2023		Building Materials	S23-Ap0041391		X			
52	SE - A03	Apr 19, 2023		Building Materials	S23-Ap0041392		X			
53	SE - AD01	Apr 19, 2023		Dust	S23-Ap0041393	X				
54	SE - LD01	Apr 19, 2023		Dust	S23-Ap0041394				X	
55	SEC - L01	Apr 19, 2023		Paint	S23-Ap0041395					X
56	SEC - L02	Apr 19, 2023		Paint	S23-Ap0041396					X
57	SEC - L03	Apr 19, 2023		Paint	S23-Ap0041397					X
58	SB - A01	Apr 19, 2023		Building Materials	S23-Ap0041398			X		
59	SB - AD01	Apr 19, 2023		Dust	S23-Ap0041399			X		

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Received: Apr 20, 2023 2:32 PM
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Contact Name: Rob Sharp

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - AS4964	Asbestos Absence /Presence	CANCELLED	Lead	Lead (% w/w)
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X
60	SB - LD01	Apr 19, 2023		Dust	S23-Ap0041400			X		
61	D - AD01	Apr 19, 2023		Dust	S23-Ap0041401	X				
62	D - LD01	Apr 19, 2023		Dust	S23-Ap0041402				X	
Test Counts						10	25	3	10	14

Internal Quality Control Review and Glossary General

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

Holding Times

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

Units

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

Calculations

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

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

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

Terms

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

Comments

Sample Integrity

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

Asbestos Counter/Identifier:

Chamath JHM Annakkage	Senior Analyst-Asbestos

Authorised by:

Laxman Dias	Senior Analyst-Asbestos

Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

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

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JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
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NSW 2000

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: **Rob Sharp**

Report **982382-S**
Project name PARRAMATTA
Project ID 64152
Received Date Mar 19, 2023

Client Sample ID			**K2 - LD01**	**K2 - LD02**	**K2 - L01**	**S1 - L01**
Sample Matrix			**Dust**	**Dust**	**Paint**	**Paint**
Eurofins Sample No.			**S23-Ap0041356**	**S23-Ap0041357**	**S23-Ap0041358**	**S23-Ap0041360**
Date Sampled			**Apr 18, 2023**	**Apr 18, 2023**	**Apr 18, 2023**	**Apr 18, 2023**
Test/Reference	LOR	Unit				
Heavy Metals						
Lead	5	mg/kg	63	21	-	-
Lead (% w/w)	0.01	%	-	-	0.02	19

Client Sample ID			**S1 - LD01**	**S2 - L01**	**S2 - L02**	**S2 - LD01**
Sample Matrix			**Dust**	**Paint**	**Paint**	**Dust**
Eurofins Sample No.			**S23-Ap0041362**	**S23-Ap0041363**	**S23-Ap0041364**	**S23-Ap0041366**
Date Sampled			**Apr 18, 2023**	**Apr 18, 2023**	**Apr 18, 2023**	**Apr 18, 2023**
Test/Reference	LOR	Unit				
Heavy Metals						
Lead	5	mg/kg	3300	-	-	22000
Lead (% w/w)	0.01	%	-	23	35	-

Client Sample ID			**S3 - L01**	**S3 - L02**	**S3 - L03**	**S3 - LD01**
Sample Matrix			**Paint**	**Paint**	**Paint**	**Dust**
Eurofins Sample No.			**S23-Ap0041367**	**S23-Ap0041368**	**S23-Ap0041369**	**S23-Ap0041372**
Date Sampled			**Apr 18, 2023**	**Apr 18, 2023**	**Apr 18, 2023**	**Apr 18, 2023**
Test/Reference	LOR	Unit				
Heavy Metals						
Lead	5	mg/kg	-	-	-	1500
Lead (% w/w)	0.01	%	34	2.8	8.3	-

Client Sample ID			OH - LD01	SB - LD01	OB - LD01	OB - L01
Sample Matrix			Dust	Dust	Dust	Paint
Eurofins Sample No.			S23-Ap0041374	S23-Ap0041377	S23-Ap0041385	S23-Ap0041386
Date Sampled			Apr 18, 2023	Apr 18, 2023	Apr 19, 2023	Apr 19, 2023
Test/Reference	LOR	Unit				
Heavy Metals						
Lead	5	mg/kg	1200	610	880	-
Lead (% w/w)	0.01	%	-	-	-	4.6

Client Sample ID			OB - L02	OB - L03	OB - L04	SE - LD01
Sample Matrix			Paint	Paint	Paint	Dust
Eurofins Sample No.			S23-Ap0041387	S23-Ap0041388	S23-Ap0041389	S23-Ap0041394
Date Sampled			Apr 19, 2023	Apr 19, 2023	Apr 19, 2023	Apr 19, 2023
Test/Reference	LOR	Unit				
Heavy Metals						
Lead	5	mg/kg	-	-	-	43
Lead (% w/w)	0.01	%	7.0	3.1	10	-

Client Sample ID			SEC - L01	SEC - L02	SEC - L03	D - LD01
Sample Matrix			Paint	Paint	Paint	Dust
Eurofins Sample No.			S23-Ap0041395	S23-Ap0041396	S23-Ap0041397	S23-Ap0041402
Date Sampled			Apr 19, 2023	Apr 19, 2023	Apr 19, 2023	Apr 19, 2023
Test/Reference	LOR	Unit				
Heavy Metals						
Lead	5	mg/kg	-	-	-	49
Lead (% w/w)	0.01	%	< 0.01	0.19	0.13	-

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
Heavy Metals	Sydney	Apr 21, 2023	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Lead (% w/w)	Sydney	Apr 20, 2023	6 Months
- Method: LTM-MET-3040 Metals in Waters Soils & Sediments by ICP-MS			

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Project Name: PARRAMATTA
Project ID: 64152

Order No.:
Report #: 982382
Phone: 02 8245 0300
Fax:

Received: Apr 20, 2023 2:32 PM
Due: Apr 28, 2023
Priority: 5 Day
Contact Name: Rob Sharp

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - AS4964	Asbestos Absence /Presence	CANCELLED	Lead	Lead (% w/w)
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X
External Laboratory										
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**					
1	K2 - A01	Apr 18, 2023		Building Materials	S23-Ap0041341		X			
2	K2 - A02	Apr 18, 2023		Building Materials	S23-Ap0041342		X			
3	K2 - A03	Apr 18, 2023		Building Materials	S23-Ap0041343		X			
4	K2 - A04	Apr 18, 2023		Building Materials	S23-Ap0041344		X			
5	K2 - A05	Apr 18, 2023		Building Materials	S23-Ap0041345		X			
6	K2 - A06	Apr 18, 2023		Building Materials	S23-Ap0041346		X			
7	K2 - A07	Apr 18, 2023		Building Materials	S23-Ap0041347		X			
8	K2 - A08	Apr 18, 2023		Building Materials	S23-Ap0041348		X			

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Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X
9	K2 - A09	Apr 18, 2023		Building Materials	S23-Ap0041349		X			
10	K2 - A10	Apr 18, 2023		Building Materials	S23-Ap0041350		X			
11	K2 - A11	Apr 18, 2023		Building Materials	S23-Ap0041351		X			
12	K2 - A12	Apr 18, 2023		Building Materials	S23-Ap0041352		X			
13	K2 - A13	Apr 18, 2023		Building Materials	S23-Ap0041353		X			
14	K2 - AD01	Apr 18, 2023		Dust	S23-Ap0041354	X				
15	K2 - AD02	Apr 18, 2023		Dust	S23-Ap0041355	X				
16	K2 - LD01	Apr 18, 2023		Dust	S23-Ap0041356				X	
17	K2 - LD02	Apr 18, 2023		Dust	S23-Ap0041357				X	
18	K2 - L01	Apr 18, 2023		Paint	S23-Ap0041358					X
19	S1 - A01	Apr 18, 2023		Building Materials	S23-Ap0041359		X			
20	S1 - L01	Apr 18, 2023		Paint	S23-Ap0041360					X

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Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X
21	S1 - AD01	Apr 18, 2023		Dust	S23-Ap0041361	X				
22	S1 - LD01	Apr 18, 2023		Dust	S23-Ap0041362				X	
23	S2 - L01	Apr 18, 2023		Paint	S23-Ap0041363					X
24	S2 - L02	Apr 18, 2023		Paint	S23-Ap0041364					X
25	S2 - AD01	Apr 18, 2023		Dust	S23-Ap0041365	X				
26	S2 - LD01	Apr 18, 2023		Dust	S23-Ap0041366				X	
27	S3 - L01	Apr 18, 2023		Paint	S23-Ap0041367					X
28	S3 - L02	Apr 18, 2023		Paint	S23-Ap0041368					X
29	S3 - L03	Apr 18, 2023		Paint	S23-Ap0041369					X
30	S3 - A01	Apr 18, 2023		Building Materials	S23-Ap0041370		X			
31	S3 - AD01	Apr 18, 2023		Dust	S23-Ap0041371	X				
32	S3 - LD01	Apr 18, 2023		Dust	S23-Ap0041372				X	
33	OH - AD01	Apr 18, 2023		Dust	S23-Ap0041373	X				
34	OH - LD01	Apr 18, 2023		Dust	S23-Ap0041374				X	
35	SB - A01	Apr 18, 2023		Building	S23-Ap0041375		X			

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Sample Detail						Asbestos - AS4964	Asbestos Absence /Presence	CANCELLED	Lead	Lead (% w/w)
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X
				Materials						
36	SB - AD01	Apr 18, 2023		Dust	S23-Ap0041376	X				
37	SB - LD01	Apr 18, 2023		Dust	S23-Ap0041377				X	
38	D - A01	Apr 19, 2023		Building Materials	S23-Ap0041378		X			
39	OB - A01	Apr 19, 2023		Building Materials	S23-Ap0041379		X			
40	OB - A02	Apr 19, 2023		Building Materials	S23-Ap0041380		X			
41	OB - A03	Apr 19, 2023		Building Materials	S23-Ap0041381		X			
42	OB - A04	Apr 19, 2023		Building Materials	S23-Ap0041382		X			
43	OB - A05	Apr 19, 2023		Building Materials	S23-Ap0041383		X			
44	OB - AD01	Apr 19, 2023		Dust	S23-Ap0041384	X				
45	OB - LD01	Apr 19, 2023		Dust	S23-Ap0041385				X	
46	OB - L01	Apr 19, 2023		Paint	S23-Ap0041386					X

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Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X
47	OB - L02	Apr 19, 2023		Paint	S23-Ap0041387					X
48	OB - L03	Apr 19, 2023		Paint	S23-Ap0041388					X
49	OB - L04	Apr 19, 2023		Paint	S23-Ap0041389					X
50	SE - A01	Apr 19, 2023		Building Materials	S23-Ap0041390		X			
51	SE - A02	Apr 19, 2023		Building Materials	S23-Ap0041391		X			
52	SE - A03	Apr 19, 2023		Building Materials	S23-Ap0041392		X			
53	SE - AD01	Apr 19, 2023		Dust	S23-Ap0041393	X				
54	SE - LD01	Apr 19, 2023		Dust	S23-Ap0041394				X	
55	SEC - L01	Apr 19, 2023		Paint	S23-Ap0041395					X
56	SEC - L02	Apr 19, 2023		Paint	S23-Ap0041396					X
57	SEC - L03	Apr 19, 2023		Paint	S23-Ap0041397					X
58	SB - A01	Apr 19, 2023		Building Materials	S23-Ap0041398			X		
59	SB - AD01	Apr 19, 2023		Dust	S23-Ap0041399			X		

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Sample Detail						Asbestos - AS4964	Asbestos Absence /Presence	CANCELLED	Lead	Lead (% w/w)
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X
60	SB - LD01	Apr 19, 2023		Dust	S23-Ap0041400			X		
61	D - AD01	Apr 19, 2023		Dust	S23-Ap0041401	X				
62	D - LD01	Apr 19, 2023		Dust	S23-Ap0041402				X	
Test Counts						10	25	3	10	14

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.

Units

mg/kg: milligrams per kilogram	**mg/L:** milligrams per litre	**µg/L:** micrograms per litre
ppm: parts per million	**ppb:** parts per billion	**%:** Percentage
org/100 mL: Organisms per 100 millilitres	**NTU:** Nephelometric Turbidity Units	**MPN/100 mL:** Most Probable Number of organisms per 100 millilitres
CFU: Colony forming unit		

Terms

APHA	American Public Health Association
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - 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.
NCP	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.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 5.4
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

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%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

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. 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.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Lab Sample ID	QA Source	Units	Result 1	Result 2	RPD	Acceptance Limits	Pass Limits	Qualifying Code
Method Blank									
Heavy Metals									
Lead			mg/kg	< 5			5	Pass	
Method Blank									
Lead (% w/w)			%	< 0.01			0.01	Pass	
LCS - % Recovery									
Heavy Metals									
Lead			%	101			80-120	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Spike - % Recovery									
Heavy Metals				Result 1					
Lead	S23-Ap0024998	NCP	%	76			75-125	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Lead	S23-Ap0046763	NCP	mg/kg	22	23	4.1	30%	Pass	

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:

Andrew Black	Analytical Services Manager
Mickael Ros	Senior Analyst-Metal
Laxman Dias	Senior Analyst-Asbestos

Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

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

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.

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Eurofins Environment Testing Australia Pty Ltd

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Tel: +61 3 8564 5000	Tel: +61 3 8564 5000	Tel: +61 2 9900 8400	Tel: +61 2 6113 8091	Tel: +61 7 3902 4600	NATA# 1261
NATA# 1261 Site# 1254	NATA# 1261 Site# 25403	NATA# 1261 Site# 18217	NATA# 1261 Site# 25466	NATA# 1261 Site# 20794	Site# 25079 & 25289

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IANZ# 1327	IANZ# 1290

Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Rob Sharp
Project name:	PARRAMATTA
Project ID:	64152
Turnaround time:	5 Day
Date/Time received	Apr 20, 2023 2:32 PM
Eurofins reference	982382

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
N/A	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
✗	Split sample sent to requested external lab.
✗	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Samples SB - A01, SB - AD01 and SB - LD01 were written twice on the COC. Only one of each sample was received. One set of these samples was put on hold. Samples D - AD01 and D - LD01 were received but not present in the COC. Samples put on hold. Please advise.

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Andrew Black on phone : (+61) 2 9900 8490 or by email: AndrewBlack@eurofins.com

Results will be delivered electronically via email to Rob Sharp - RSharp@jbsg.com.au.

1/4 23670

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 64152	LABORATORY BATCH NO.:
PROJECT NAME: Parramatta	SAMPLERS:
DATE NEEDED BY: STD TAT	QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) R.Sharp@jbsg.com.au; (3) J.Gomez@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos ID	Lead %w/w	Lead mg/kg	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
K2-A01	Mat	19/04		Bag		X					
A02						X					
A03						X					
A04						X					
A05						X					
A06						X					
A07						X					
A08						X					
A09						X					
A10						X					
A11						X					
A12						X					
A13						X					
AD01	Dust					X					
AD02						X					
LD01							X				
LD02							X				
LQ1	Paint					X					
S1-A01	Material					X					

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: [illegible] DATE: 19/04	CONSIGNMENT NOTE NO.	NAME: Arani DATE: 19/04	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	OF: 2:32pm	COOLER TEMP ..... deg C N/A
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

982382

CHAIN OF CUSTODY

2/4

23671

JBS&G

PROJECT NO.: 64125	LABORATORY BATCH NO.:
PROJECT NAME: Parramatta	SAMPLERS: Robert Sharp
DATE NEEDED BY: STD TAT	QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) ...RSharp.....@jbsg.com.au; (3) ...XGomez.....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos ID	Lead % w/w	Lead mg/kg	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
S1-L01	paint	18/09/23		Bag			X				
AD01	Dust					X					
LD01								X			
S2-L01	Paint						X				
L02							X				
AD01	Dust					X					
AD01								X			
S3-L01	Paint						X				
L02							X				
L03							X				
A01	mat					X					
AD01	Dust					X					
LD01								X			
QH-AD01						X					
LD01								X			
SB-A01	mat					X					
AD01	Dust					X					
LD01								X			
D-A01	mat	18/09/23				X					

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE: 19/09/23 OF: JBS&G	CONSIGNMENT NO. TRANSPORT CO.	NAME: DATE: 19/09/23 2:32pm OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C
NAME: DATE: OF:	CONSIGNMENT NO. TRANSPORT CO	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO Forms013 – Chain of Custody - Generic

982382

CHAIN OF CUSTODY 3/4

23672

JBS&G

PROJECT NO.: 64152	LABORATORY BATCH NO.:
PROJECT NAME: Parramatta	SAMPLERS: Robert Shears
DATE NEEDED BY: STD TAT	QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) R.Shears@jbsg.com.au; (3) Jcomez@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos (1)	lead & other	Lead synergy	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
OB - A01	Mat	14/04		Bag		X					
A02	↓	↓		↓		X					
A03						X					
A04						X					
A05						X					
AD01	Dust					X					
LD01	↓							X			
L01	Paint						X				
L02	↓						X				
L03							X				
L04							X				
SE - A01	Mat					X					
A02	↓					X					
A03						X					
SE - AD01	Dust					X					
LD01	↓							X			
SB - A01	Mat					X					
AD01	Dust					X					
LD01	↓							X			

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE: 14/04	CONSIGNMENT NOTE NO.	NAME: Aram DATE: 14/04	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	OF: 2.32pm	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

982382

CHAIN OF CUSTODY 4/4

23673

JBS&G

PROJECT NO.: ~~[illegible]~~ 64152
PROJECT NAME: Parramatta
DATE NEEDED BY: STD TAT
LABORATORY BATCH NO.:
SAMPLERS: Robert Sharp
QC LEVEL: NEPM (2013)
PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) RSharp@jbsg.com.au; (3) JGomez@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos ID	lead %w/w	lead mg/kg	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
SEC-L01	Paint	19/04				X					
↓ L02	↓	↓				X					
L03						X					

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: [signature] DATE: 19/04/23	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 19/04 2-32pm	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody – Generic

982382

Certificate of Analysis

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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.

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention:	Rob Sharpsmith
Report	1008121-AID
Project Name	NORTH PARRAMATTA
Project ID	64152
Received Date	Jul 14, 2023
Date Reported	Jul 24, 2023

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 NORTH PARRAMATTA
Project ID 64152
Date Sampled Jul 14, 2023
Report 1008121-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
BDH-A01	23-Jl0030969	Jul 14, 2023	Approximate Sample 7g / 35x25x4mm Sample consisted of: Grey cement material	No asbestos detected. Synthetic mineral fibre detected. No trace asbestos detected.
TC-A01	23-Jl0030970	Jul 14, 2023	Approximate Sample 2g / 20x10x2mm Sample consisted of: White cement material	No asbestos detected. Organic fibre detected. No trace asbestos detected.
TC-A02	23-Jl0030971	Jul 14, 2023	Approximate Sample <1g / 15x10x1mm Sample consisted of: Grey plaster cement material with paint flakes	No asbestos detected. Organic fibre detected. No trace asbestos detected.
TC-A03	23-Jl0030972	Jul 14, 2023	Approximate Sample 5g / 25x25x10mm Sample consisted of: White sealant material	No asbestos detected. No trace asbestos detected.
TC-A04	23-Jl0030973	Jul 14, 2023	Approximate Sample 1g / 20x15x3mm Sample consisted of: Grey cement material	No asbestos detected. No trace asbestos detected.
TC-A05	23-Jl0030974	Jul 14, 2023	Approximate Sample 6g / 70x30x7mm Sample consisted of: Grey weathered fibre cement material	Chrysotile asbestos detected.
S4-A01	23-Jl0030977	Jul 14, 2023	Approximate Sample 2g / 30x20x1mm Sample consisted of: Grey layered fibre cement material	No asbestos detected. Organic fibre detected. No trace asbestos detected.
S4-A02	23-Jl0030978	Jul 14, 2023	Approximate Sample 3g / 55x10x4mm Sample consisted of: Grey mastic material	No asbestos detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
S4-A03	23-Jl0030979	Jul 14, 2023	Approximate Sample 1g / 20x10x2mm Sample consisted of: Grey fibre cement material	Chrysotile and crocidolite asbestos detected.
S4-AD01	23-Jl0030980	Jul 14, 2023	Approximate Sample 5g Sample consisted of: Brown dust, organic debris and wood chips	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
R4-A01	23-Jl0030985	Jul 14, 2023	Approximate Sample 1g / 20x15x1mm Sample consisted of: Grey fibre cement material	Chrysotile asbestos detected. Organic fibre detected.
PA-A01	23-Jl0030987	Jul 14, 2023	Approximate Sample 10g / 35x20x10mm Sample consisted of: Grey cement Magenta	No asbestos detected. No trace asbestos detected.
PA-A02	23-Jl0030988	Jul 14, 2023	Approximate Sample 3g / 40x30x5mm Sample consisted of: Pink sealant material and brown fibro- boarding material	No asbestos detected. Organic fibre detected. No trace asbestos detected.
PA-A03	23-Jl0030989	Jul 14, 2023	Approximate Sample 1g / 20x10x1mm Sample consisted of: Grey plaster cement material with white paint flakes	No asbestos detected. Organic fibre detected. No trace asbestos detected.
PA-A04	23-Jl0030990	Jul 14, 2023	Approximate Sample 3g / 35x15x5mm Sample consisted of: White layered plaster cement material	No asbestos detected. No trace asbestos detected.
PA-A05	23-Jl0030991	Jul 14, 2023	Approximate Sample 3g / 45x20x5mm Sample consisted of: Black bituminous material	No asbestos detected. Organic fibre detected. No trace asbestos detected.
PA-A06	23-Jl0030992	Jul 14, 2023	Approximate Sample 2g / 20x20x2mm Sample consisted of: White vinyl sheet	No asbestos detected. Synthetic mineral fibre detected. No trace asbestos detected.
PA-AD01	23-Jl0030993	Jul 14, 2023	Approximate Sample 3g Sample consisted of: Brown dust, fibrous material and organic debris	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
PG-A01	23-Jl0030996	Jul 14, 2023	Approximate Sample <1g / 10x3x1mm Sample consisted of: Beige mastic material	No asbestos 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	Jul 18, 2023	Indefinite
Asbestos - LTM-ASB-8020	Sydney	Jul 18, 2023	Indefinite

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NATA# 1261 Site# 25403

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NSW 2145
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NATA# 1261 Site# 18217

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NATA# 1261 Site# 25466

Brisbane
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NATA# 1261 Site# 20794

Newcastle
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NATA# 1261
Site# 25079 & 25289

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Company Name: JBS & G Australia (NSW) P/L
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NSW 2000

Project Name: NORTH PARRAMATTA
Project ID: 64152

Order No.:
Report #: 1008121
Phone: 02 8245 0300
Fax:

Received: Jul 14, 2023 7:20 PM
Due: Jul 24, 2023
Priority: 5 Day
Contact Name: Rob Sharpsmith

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - AS4964	Asbestos Absence /Presence	Lead	Lead (% w/w)
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X
External Laboratory									
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**				
1	BDH-A01	Jul 14, 2023		Building Materials	S23-Jl0030969		X		
2	TC-A01	Jul 14, 2023		Building Materials	S23-Jl0030970		X		
3	TC-A02	Jul 14, 2023		Building Materials	S23-Jl0030971		X		
4	TC-A03	Jul 14, 2023		Building Materials	S23-Jl0030972		X		
5	TC-A04	Jul 14, 2023		Building Materials	S23-Jl0030973		X		
6	TC-A05	Jul 14, 2023		Building Materials	S23-Jl0030974		X		
7	TC-L01	Jul 14, 2023		Paint	S23-Jl0030975				X
8	SB-L01	Jul 14, 2023		Paint	S23-Jl0030976				X
9	S4-A01	Jul 14, 2023		Building	S23-Jl0030977		X		

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Site# 25079 & 25289

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IANZ# 1290

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: NORTH PARRAMATTA
Project ID: 64152

Order No.:
Report #: 1008121
Phone: 02 8245 0300
Fax:

Received: Jul 14, 2023 7:20 PM
Due: Jul 24, 2023
Priority: 5 Day
Contact Name: Rob Sharpsmith

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - AS4964	Asbestos Absence /Presence	Lead	Lead (% w/w)
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X
				Materials					
10	S4-A02	Jul 14, 2023		Building Materials	S23-Jl0030978		X		
11	S4-A03	Jul 14, 2023		Building Materials	S23-Jl0030979		X		
12	S4-AD01	Jul 14, 2023		Dust	S23-Jl0030980	X			
13	S4-LD01	Jul 14, 2023		Dust	S23-Jl0030981			X	
14	S4-L01	Jul 14, 2023		Paint	S23-Jl0030982				X
15	S4-L02	Jul 14, 2023		Paint	S23-Jl0030983				X
16	S5-L01	Jul 14, 2023		Paint	S23-Jl0030984				X
17	R4-A01	Jul 14, 2023		Building Materials	S23-Jl0030985		X		
18	R4-L01	Jul 14, 2023		Paint	S23-Jl0030986				X
19	PA-A01	Jul 14, 2023		Building Materials	S23-Jl0030987		X		
20	PA-A02	Jul 14, 2023		Building Materials	S23-Jl0030988		X		

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
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NSW 2000

Project Name: NORTH PARRAMATTA
Project ID: 64152

Order No.:
Report #: 1008121
Phone: 02 8245 0300
Fax:

Received: Jul 14, 2023 7:20 PM
Due: Jul 24, 2023
Priority: 5 Day
Contact Name: Rob Sharpsmith

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - AS4964	Asbestos Absence /Presence	Lead	Lead (% w/w)
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X
21	PA-A03	Jul 14, 2023		Building Materials	S23-Jl0030989		X		
22	PA-A04	Jul 14, 2023		Building Materials	S23-Jl0030990		X		
23	PA-A05	Jul 14, 2023		Building Materials	S23-Jl0030991		X		
24	PA-A06	Jul 14, 2023		Building Materials	S23-Jl0030992		X		
25	PA-AD01	Jul 14, 2023		Dust	S23-Jl0030993	X			
26	PA-LD01	Jul 14, 2023		Dust	S23-Jl0030994			X	
27	PA-L01	Jul 14, 2023		Paint	S23-Jl0030995				X
28	PG-A01	Jul 14, 2023		Building Materials	S23-Jl0030996		X		
Test Counts						2	17	2	7

Internal Quality Control Review and Glossary General

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

Holding Times

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

Units

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

Calculations

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

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

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

Terms

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

Comments

Sample Integrity

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

Asbestos Counter/Identifier:

Bennel Jiri	Senior Analyst-Asbestos

Authorised by:

Sayeed Abu	Senior Analyst-Asbestos

Glenn Jackson
Managing Director

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.

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
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NSW 2000

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: **Rob Sharpsmith**

Report **1008121-S**
Project name NORTH PARRAMATTA
Project ID 64152
Received Date Jul 14, 2023

Client Sample ID			**TC-L01**	**SB-L01**	**S4-LD01**	**S4-L01**
Sample Matrix			**Paint**	**Paint**	**Dust**	**Paint**
Eurofins Sample No.			**S23-JI0030975**	**S23-JI0030976**	**S23-JI0030981**	**S23-JI0030982**
Date Sampled			**Jul 14, 2023**	**Jul 14, 2023**	**Jul 14, 2023**	**Jul 14, 2023**
Test/Reference	LOR	Unit				
Lead (% w/w)	0.01	%	0.02	0.02	-	2.4
Heavy Metals						
Lead	5	mg/kg	-	-	60	-

Client Sample ID			**S4-L02**	**S5-L01**	**R4-L01**	**PA-LD01**
Sample Matrix			**Paint**	**Paint**	**Paint**	**Dust**
Eurofins Sample No.			**S23-JI0030983**	**S23-JI0030984**	**S23-JI0030986**	**S23-JI0030994**
Date Sampled			**Jul 14, 2023**	**Jul 14, 2023**	**Jul 14, 2023**	**Jul 14, 2023**
Test/Reference	LOR	Unit				
Lead (% w/w)	0.01	%	15	< 0.01	0.15	-
Heavy Metals						
Lead	5	mg/kg	-	-	-	97

Client Sample ID			**PA-L01**
Sample Matrix			**Paint**
Eurofins Sample No.			**S23-JI0030995**
Date Sampled			**Jul 14, 2023**
Test/Reference	LOR	Unit	
Lead (% w/w)	0.01	%	< 0.01

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
Lead (% w/w)	Sydney	Jul 14, 2023	6 Months
- Method: LTM-MET-3040 Metals in Waters Soils & Sediments by ICP-MS			
Heavy Metals	Sydney	Jul 18, 2023	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			

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Project Name: NORTH PARRAMATTA
Project ID: 64152

Order No.:
Report #: 1008121
Phone: 02 8245 0300
Fax:

Received: Jul 14, 2023 7:20 PM
Due: Jul 24, 2023
Priority: 5 Day
Contact Name: Rob Sharpsmith

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - AS4964	Asbestos Absence /Presence	Lead	Lead (% w/w)
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X
External Laboratory									
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**				
1	BDH-A01	Jul 14, 2023		Building Materials	S23-Jl0030969		X		
2	TC-A01	Jul 14, 2023		Building Materials	S23-Jl0030970		X		
3	TC-A02	Jul 14, 2023		Building Materials	S23-Jl0030971		X		
4	TC-A03	Jul 14, 2023		Building Materials	S23-Jl0030972		X		
5	TC-A04	Jul 14, 2023		Building Materials	S23-Jl0030973		X		
6	TC-A05	Jul 14, 2023		Building Materials	S23-Jl0030974		X		
7	TC-L01	Jul 14, 2023		Paint	S23-Jl0030975				X
8	SB-L01	Jul 14, 2023		Paint	S23-Jl0030976				X
9	S4-A01	Jul 14, 2023		Building	S23-Jl0030977		X		

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Project ID: 64152

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Phone: 02 8245 0300
Fax:

Received: Jul 14, 2023 7:20 PM
Due: Jul 24, 2023
Priority: 5 Day
Contact Name: Rob Sharpsmith

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - AS4964	Asbestos Absence /Presence	Lead	Lead (% w/w)
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X
				Materials					
10	S4-A02	Jul 14, 2023		Building Materials	S23-Jl0030978		X		
11	S4-A03	Jul 14, 2023		Building Materials	S23-Jl0030979		X		
12	S4-AD01	Jul 14, 2023		Dust	S23-Jl0030980	X			
13	S4-LD01	Jul 14, 2023		Dust	S23-Jl0030981			X	
14	S4-L01	Jul 14, 2023		Paint	S23-Jl0030982				X
15	S4-L02	Jul 14, 2023		Paint	S23-Jl0030983				X
16	S5-L01	Jul 14, 2023		Paint	S23-Jl0030984				X
17	R4-A01	Jul 14, 2023		Building Materials	S23-Jl0030985		X		
18	R4-L01	Jul 14, 2023		Paint	S23-Jl0030986				X
19	PA-A01	Jul 14, 2023		Building Materials	S23-Jl0030987		X		
20	PA-A02	Jul 14, 2023		Building Materials	S23-Jl0030988		X		

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Contact Name: Rob Sharpsmith

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - AS4964	Asbestos Absence /Presence	Lead	Lead (% w/w)
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X
21	PA-A03	Jul 14, 2023		Building Materials	S23-Jl0030989		X		
22	PA-A04	Jul 14, 2023		Building Materials	S23-Jl0030990		X		
23	PA-A05	Jul 14, 2023		Building Materials	S23-Jl0030991		X		
24	PA-A06	Jul 14, 2023		Building Materials	S23-Jl0030992		X		
25	PA-AD01	Jul 14, 2023		Dust	S23-Jl0030993	X			
26	PA-LD01	Jul 14, 2023		Dust	S23-Jl0030994			X	
27	PA-L01	Jul 14, 2023		Paint	S23-Jl0030995				X
28	PG-A01	Jul 14, 2023		Building Materials	S23-Jl0030996		X		
Test Counts						2	17	2	7

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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.

Units

mg/kg: milligrams per kilogram	**mg/L:** milligrams per litre	**µg/L:** micrograms per litre
ppm: parts per million	**ppb:** parts per billion	**%:** Percentage
org/100 mL: Organisms per 100 millilitres	**NTU:** Nephelometric Turbidity Units	**MPN/100 mL:** Most Probable Number of organisms per 100 millilitres
CFU: Colony forming unit		

Terms

APHA	American Public Health Association
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - 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.
NCP	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.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 5.4
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

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%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

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. 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.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Lead (% w/w)	%	< 0.01			0.01	Pass	
Method Blank							
Heavy Metals							
Lead	mg/kg	< 50			50	Pass	
LCS - % Recovery							
Heavy Metals							
Lead	%	85			80-120	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Heavy Metals				Result 1					
Lead	S23-Jl0037676	NCP	%	97			75-125	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Lead	S23-Jl0037675	NCP	mg/kg	8.4	9.0	7.5	30%	Pass	

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:

Andrew Black	Analytical Services Manager
Fang Yee Tan	Senior Analyst-Metal
Mickael Ros	Senior Analyst-Metal
Sayeed Abu	Senior Analyst-Asbestos

Glenn Jackson
Managing Director

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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Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Rob Sharpsmith
Project name:	NORTH PARRAMATTA
Project ID:	64152
Turnaround time:	5 Day
Date/Time received	Jul 14, 2023 7:20 PM
Eurofins reference	1008121

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
N/A	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
✗	Split sample sent to requested external lab.
✗	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Samples received by the laboratory after 5.30pm are deemed to have been received the following working day.

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Andrew Black on phone : (+61) 2 9900 8490 or by email: AndrewBlack@eurofins.com

Results will be delivered electronically via email to Rob Sharpsmith - RSharpsmith@jbsg.com.au.

Global Leader - Results you can trust

Chain of Custody 1/2

JBS&G

PROJECT NO.: 64152	LABORATORY BATCH NO.:
PROJECT NAME: North Parramatta	SAMPLERS: Robert Sharpsmith
DATE NEEDED BY: STD TAT	QC LEVEL: NEPM (2013)

PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) Rsharpsmith@jbsg.com.au; (3) Slumsden@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos ID	Lead Paint	Lead dust	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
BDH-A01	Mat	14/07/23		Bag		X					
TC-A01	Mat	14/07/23		Bag		X					
TC-A02	Mat	14/07/23		Bag		X					
TC-A03	Mat	14/07/23		Bag		X					
TC-A04	Mat	14/07/23		Bag		X					
TC-A05	Mat	14/07/23		Bag		X					
TC-L01	Paint	14/07/23		Bag			X				
SB-L01	Paint	14/07/23		Bag			X				
S4-A01	Mat	14/07/23		Bag		X					
S4-A02	Mat	14/07/23		Bag		X					
S4-A03	Mat	14/07/23		Bag		X					
S4-AD01	Dust	14/07/23		Bag		X					
S4-LD01	Dust	14/07/23		Bag				X			
S4-L01	Paint	14/07/23		Bag			X				
S4-L02	Paint	14/07/23		Bag			X				
S5-L01	Paint	14/07/23		Bag			X				
R4-A01	Mat	14/07/23		Bag		X					
R4-L01	Paint	14/07/23		Bag			X				
PA-A01	Mat	14/07/23		Bag		X					
PA-A02	Mat	14/07/23		Bag		X					

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Robert Sharpsmith DATE: 14/7/23	CONSIGNMENT NOTE NO.	NAME: Pitham DATE: 14/7 7:20pm	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	OF:	COOLER TEMP ..... deg C N/A

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

1008121

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Chain of Custody

2/2

JBS&G

PROJECT NO.: 64152

PROJECT NAME: North Parramatta

DATE NEEDED BY: STD TAT

LABORATORY BATCH NO.:

SAMPLERS: Robert Sharpsmith

QC LEVEL: NEPM (2013)

PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) Rsharpsmith@jbsg.com.au; (3) Slumsden@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos ID	Lead Paint	Lead dust	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
PA-A03	Mat	14/07/23		Bag		X					
PA-A04	Mat	14/07/23		Bag		X					
PA-A05	Mat	14/07/23		Bag		X					
PA-A06	Mat	14/07/23		Bag		X					
PA-AD01	Dust	14/07/23		Bag		X					
PA-LD01	Dust	14/07/23		Bag				X			
PA-L01	Paint	14/07/23		Bag			X				
PG-A01	Mat	14/07/23		Bag		X					

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Robert Sharpsmith DATE: 14/7/23	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

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Appendix D Demolition Masterplan

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HUNTS CREEK

HUNTS CREEK RESERVE

CAMELOT COURT

BETTINGTON ROAD

SENIOR SCHOOL

HUNTS CREEK

PREP SCHOOL

1A

1B

1C

WADE ROAD

PENNANT HILLS ROAD

RUSSELL ROAD

MASONS DRIVE

LAKE PARAMATTA

DEMOLITION
1A. SHEDS AND AGRICULTURE
1B. SOUTH OF K-2, TWO CLASSROOMS IN TOTAL
1C. WEST OF K-2, FOUR CLASSROOMS IN TOTAL

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04	15/05/2023	DRAFT SSDA ISSUE	
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MASTERPLAN PHASE 1 - DEMOLITION

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MASTERPLAN PHASE 2 - DEMOLITION

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0 60000 150000
SCALE

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STATUS

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DRAWING

MASTERPLAN PHASE 2 - PROPOSED

MAR-AR-DA-A10-XX-04 ISSUE 09

DAM
DEMOLISH FENCE
SHED
SHED
3 CLASSROOMS
REMOVE TREE
DEMOLISH FENCED FACILITIES
DEMOLISH FENCE
DEMOLISH FOOTPATH
STEM
FENCE
DEMOLISH FENCE
DEMOLISH METAL SHED
HORROCKS HALL
DEMOLISH AND RELOCATE EXISTING SEWER PIT
DEMOLISH FENCE
REMOVE TREE
DEMOLISH FOOTPATH
EXISTING PA
DEMOLISH GREEN HOUSE
DEMOLISH FENCE
DEMOLISH HARDSTAND CONCRETE AND AWNING
DEMOLISH FENCE
DEMOLISH NETTED GARDEN
DEMOLISH FENCE
REMOVE TREE
DEMOLISH FENCE
DEMOLISH FENCE
DEMOLISH WIRE FENCE CHICKEN COOP
DEMOLISH SHED
DEMOLISH TIMBER SHED
K-2
K-2
SHED
SHED
SHED
DEMOLISH FENCE
DEMOLISH FENCE
FENCE
DEMOLISH SHED
COW BARN
SHED
SHED
FENCE
WATER TANK
CEDARS

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THE KING'S SCHOOL
CLIENT NUMBER

GENERAL LEARNING UNIT
PROJECT

TKS - GENERAL LEARNING UNIT
THE KING'S SCHOOL, NORTH PARRAMATTA
SYDNEY NSW
AUSTRALIA

BVN PROJECT NUMBER
2204003

DRAWING KEY

TRUE NORTH PROJECT NORTH

GRAPHIC SCALE
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SCALE
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STATUS
SSDA

DRAWING
DEMOLITION PLAN

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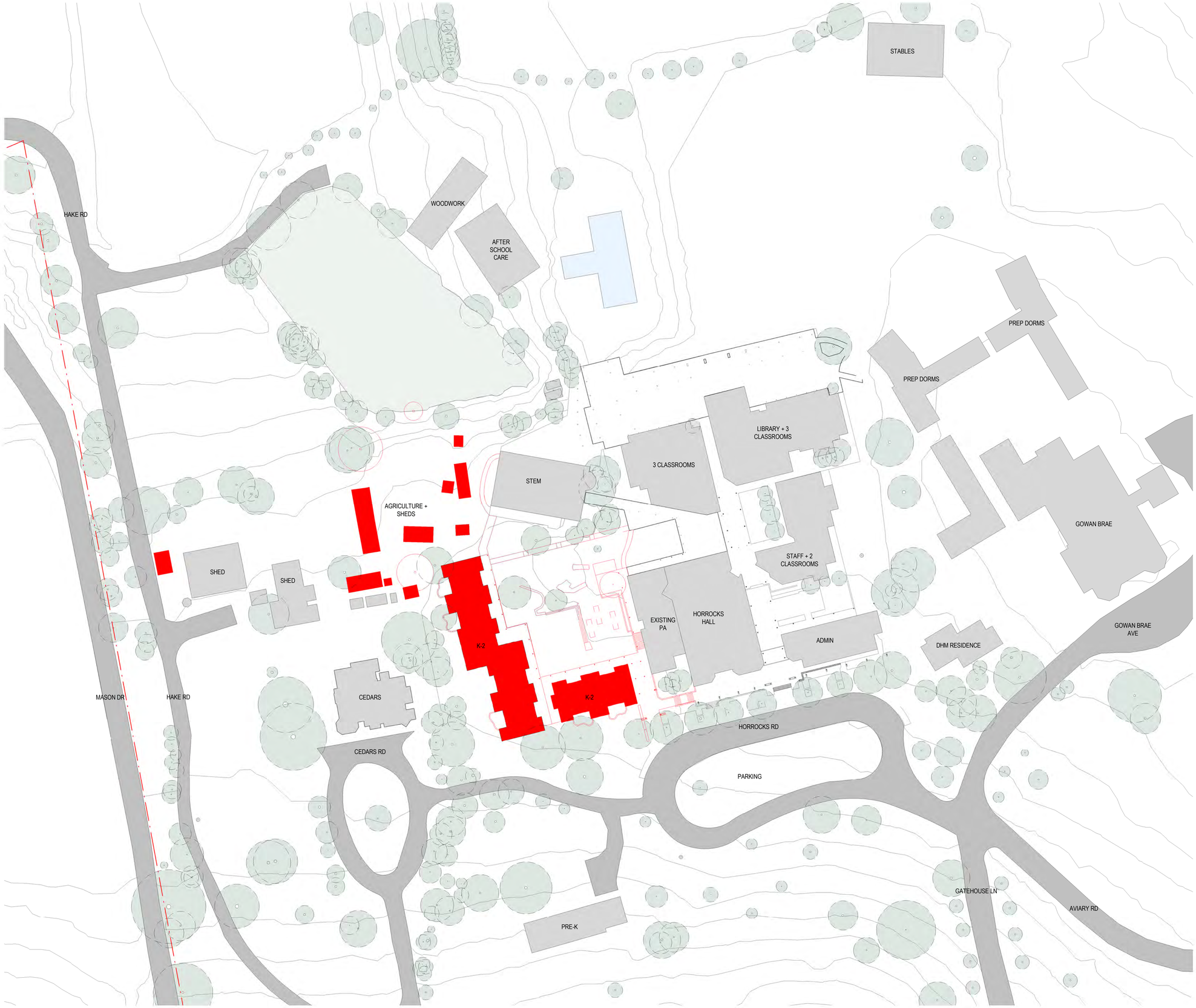

LEGEND

TO BE DEMOLISHED

TREES REMOVED

NOTE:

FOR TREE REMOVAL REFER TO ARBORIST REPORT

BVN

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THE KING'S SCHOOL
CLIENT NUMBER

2204003
PROJECT

THE KING'S PREPARATORY SCHOOL STAGE 1&2
PARRAMATTA
SYDNEY NSW
AUSTRALIA
BVN PROJECT NUMBER

2204003
DRAWING KEY

TRUE NORTH PROJECT NORTH

GRAPHIC SCALE
0 10000 25000
SCALE

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STATUS

SSDA
DRAWING

DEMOLITION PLAN - PREP SCHOOL

ISSUE

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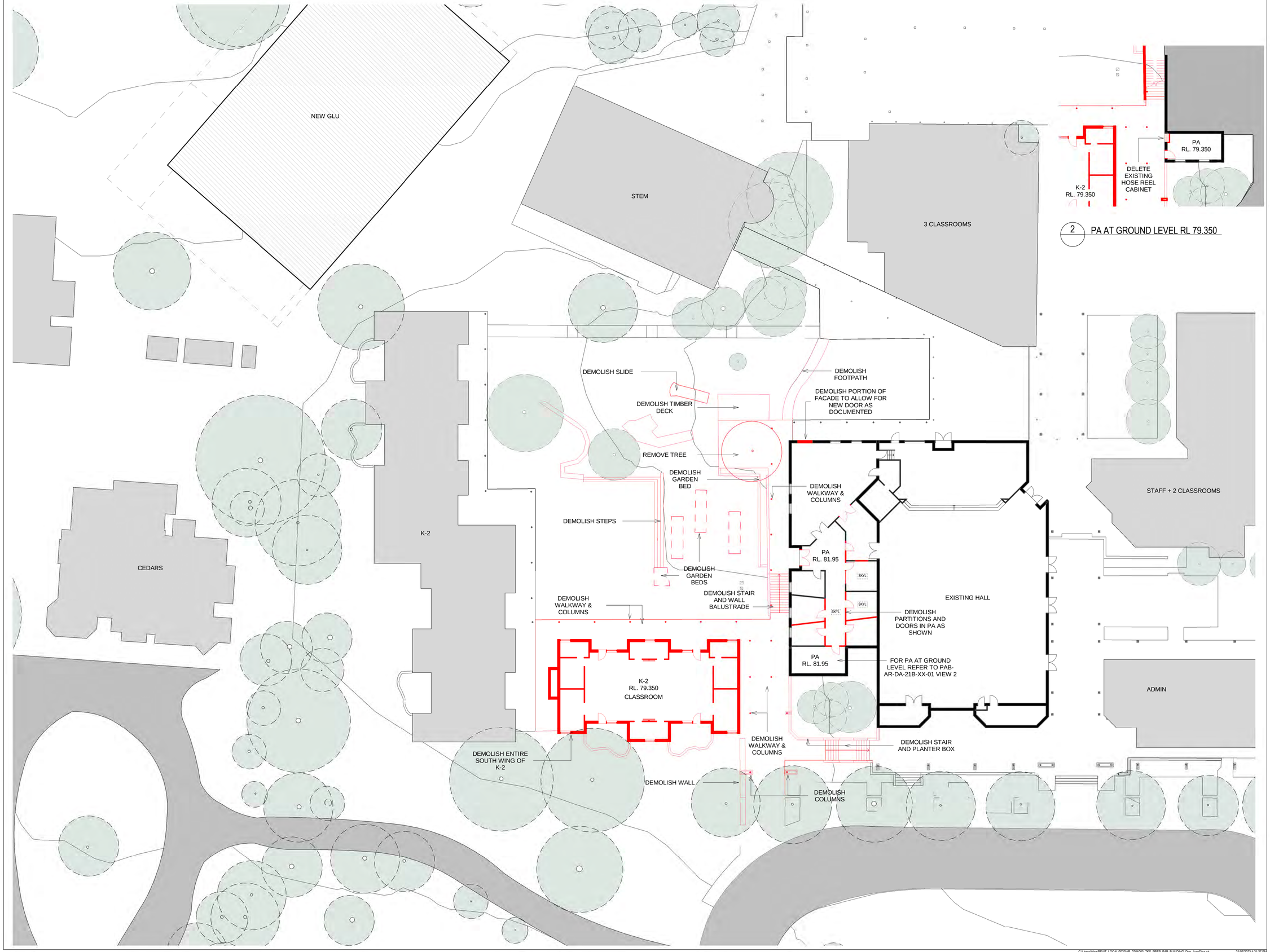

2 PA AT GROUND LEVEL RL 79.350

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CLIENT NUMBER

PERFORMING ARTS CENTRE
PROJECT

THE KING'S PREP SCHOOL STAGE 1&2 NORTH PARRAMATTA
BVN PROJECT NUMBER

2204003
DRAWING KEY

TRUE NORTH PROJECT NORTH

GRAPHIC SCALE
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SCALE

1 : 200@A1
STATUS

SSDA
DRAWING

DEMOLITION PLAN - SHEET 1

PAB-AR-DA-21B-XX-01 | ISSUE 02

NEW GLU

STEM

3 CLASSROOMS

LIBRARY + 3 CLASSROOMS

K-2
RL. 79.350

CEDARS

NEW PAB

EXISTING PA

EXISTING HALL

STAFF + 2 CLASSROOMS

ADMIN

DEMOLISH
WALKWAY &
COLUMNS

K-2
RL. 79.350

DEMOLISH ENTIRE
WEST WING OF K-2

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CLIENT NUMBER

PERFORMING ARTS CENTRE
PROJECT

THE KING'S PREP SCHOOL STAGE 1&2
NORTH PARRAMATTA
BVN PROJECT NUMBER

2204003
DRAWING KEY

TRUE NORTH PROJECT NORTH

GRAPHIC SCALE
0 4000 10000
SCALE

1 : 200@A1
STATUS

SSDA
DRAWING

DEMOLITION PLAN - SHEET 3

PAB-AR-DA-21B-XX-03 | ISSUE 02

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PROJECT

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NORTH PARRAMATTA
BVN PROJECT NUMBER

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DRAWING KEY

TRUE NORTH PROJECT NORTH

GRAPHIC SCALE
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SCALE

1 : 200@A1
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DEMOLITION PLAN - SHEET 4

ISSUE

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BVN PROJECT NUMBER

2204003
DRAWING KEY

TRUE NORTH PROJECT NORTH

GRAPHIC SCALE
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STATUS

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DEMOLITION PLAN - SHEET 2

ISSUE
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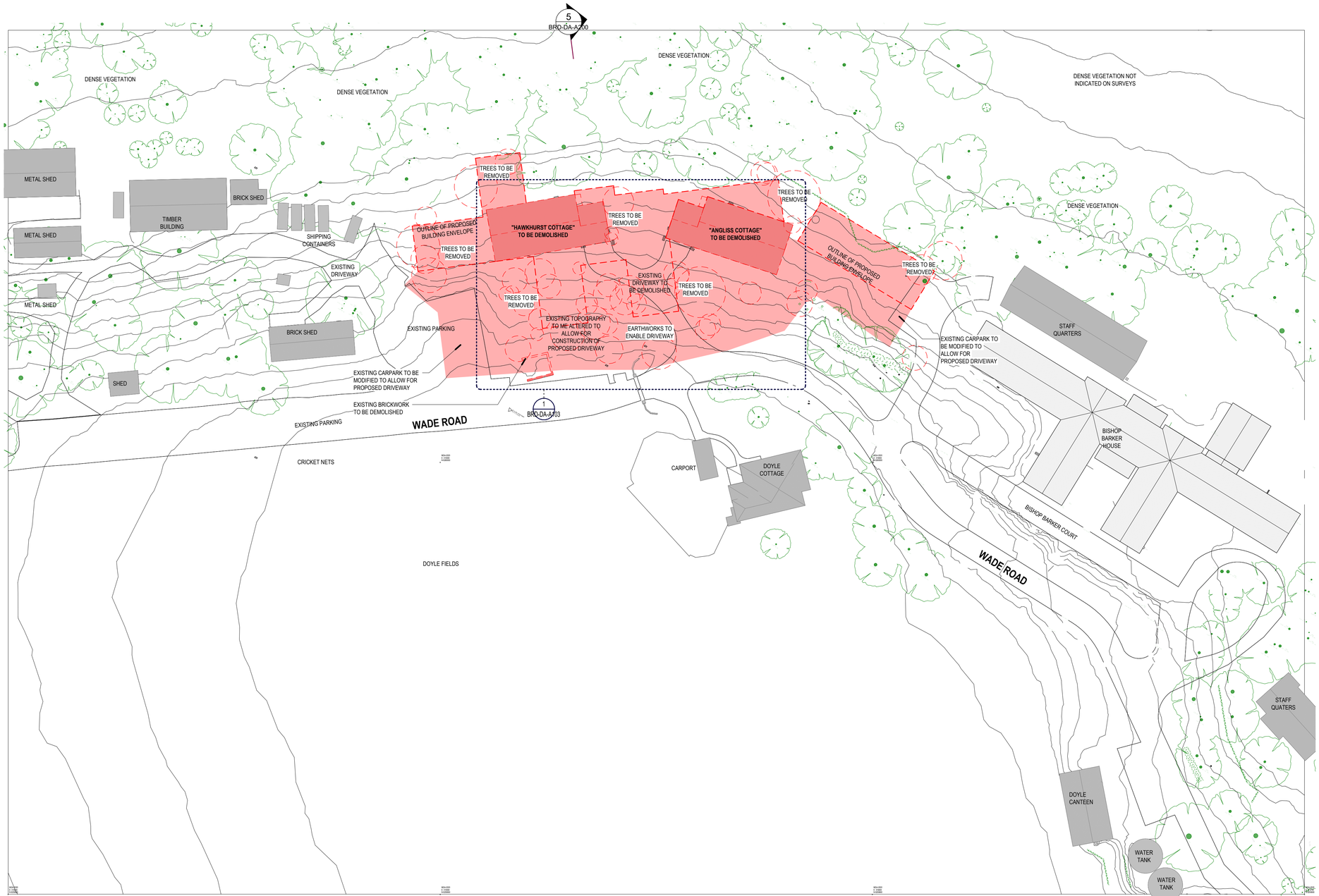

SSDA DEMOLITION SITE PLAN

1 : 500

ANGLISS COTTAGE - TO BE DEMOLISHED

HAWKHURST COTTAGE -- TO BE DEMOLISHED

REMOVE TREES
B-001
B-003
B-004
B-005
B-007
B-008
B-009
B-010
B-011
B-012
B-013
B-014
B-046
AP-01518
AP-01519
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4	21.07.23	ISSUE FOR SSDA (DRAFT)	JS	CM

LEGEND
- DEMOLISHED BUILDING
- EXTERNAL AND EARTHWORKS

5
BRD-DA-A200
NORTH

PRELIMINARY - SSDA CONCEPT PROPOSAL
PROJECT PHASE

Boarding House (BRD)
PROJECT TITLE

87-129 Pennant Hills Rd, North Parramatta NSW 2151
SITE ADDRESS

The Kings School
CLIENT

DEMOLITION SITE PLAN

DRAWING TITLE

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22066
PROJECT NUMBER

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DETAIL DEMOLITION PLAN

1 : 100

"HAWKHURST COTTAGE" SINGLE STOREY BRICK BUILDING

"HAWKHURST COTTAGE" TO BE DEMOLISHED
*SINGLE LEVEL 215m2
*TIMBER FRAMED BRICK VENEER BUILDING
*TILED ROOF
*4BEDROOM, 1.5BATHROOM
*DUCTED AIR CONDITIONING

"ANGLISS COTTAGE" TO BE DEMOLISHED
*SINGLE LEVEL 215m2
*TIMBER FRAMED BRICK VENEER BUILDING
*TILED ROOF
*3BEDROOM, 1.5BATHROOM
*DUCTED AIR CONDITIONING

"ANGLISS COTTAGE" SINGLE STOREY BRICK BUILDING

EXISTING FENCE TO BE DEMOLISHED
PROPOSED EXTENT OF
EXISTING STOWMWATER PIT TO BE DEMOLISHED
EXISTING PORCH TO BE DEMOLISHED
EXISTING STAIR AND CONCRETE PATHWAY TO BE DEMOLISHED
EXISTING TREE TO BE REMOVED
EXISTING SERVICES TO BE DISCONNECTED, CAPPED AND REMOVED
EXISTING PATHWAY TO BE DEMOLISHED
EXISTING GARDEN TO BE DEMOLISHED
EXISTING PATH TO BE DEMOLISHED
EXISTING SANDPIT TO BE DEMOLISHED
EXISTING STOWMWATER PIT TO BE DEMOLISHED
EXISTING BRICK PAVING TO BE DEMOLISHED
EXISTING TREES TO BE REMOVED
TREES TO BE REMOVED
EXISTING DRIVEWAY TO BE DEMOLISHED
EXISTING BRICKWORK TO BE DEMOLISHED
EXISTING TOPOGRAPHY TO ME ALTERED TO ALLOW FOR CONSTRUCTION OF PROPOSED DRIVEWAY
EXISTING GATE TO BE RETAINED
EXISTING ROAD TO BE RETAINED
EXISTING BRICK PATH TO BE DEMOLISHED

GARDEN
CONCRETE
BRICK PAVING
BITUMEN
DRIVEWAY
BRICK
PAVED
PATH
PORCH
SAND PIT
SPEED HUMP
LATTICE
FENCE
EDGE
GUTTER
ROOF RIDGE

20855
6185
1925
8210
2065
1985
8210
2745

ISSUE	DATE	REVISION	CHECKED	DRAWN
1	23.06.23	ISSUE FOR SSDA	JS	CM

LEGEND
- DEMOLISHED BUILDING
- EXTERNAL AND EARTHWORKS

NORTH

PRELIMINARY - SSDA CONCEPT PROPOSAL
PROJECT PHASE

Boarding House (BRD)
PROJECT TITLE

87-129 Pennant Hills Rd, North Parramatta NSW 2151
SITE ADDRESS

The Kings School
CLIENT

DETAIL DEMOLITION PLAN
DRAWING TITLE

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22066
PROJECT NUMBER

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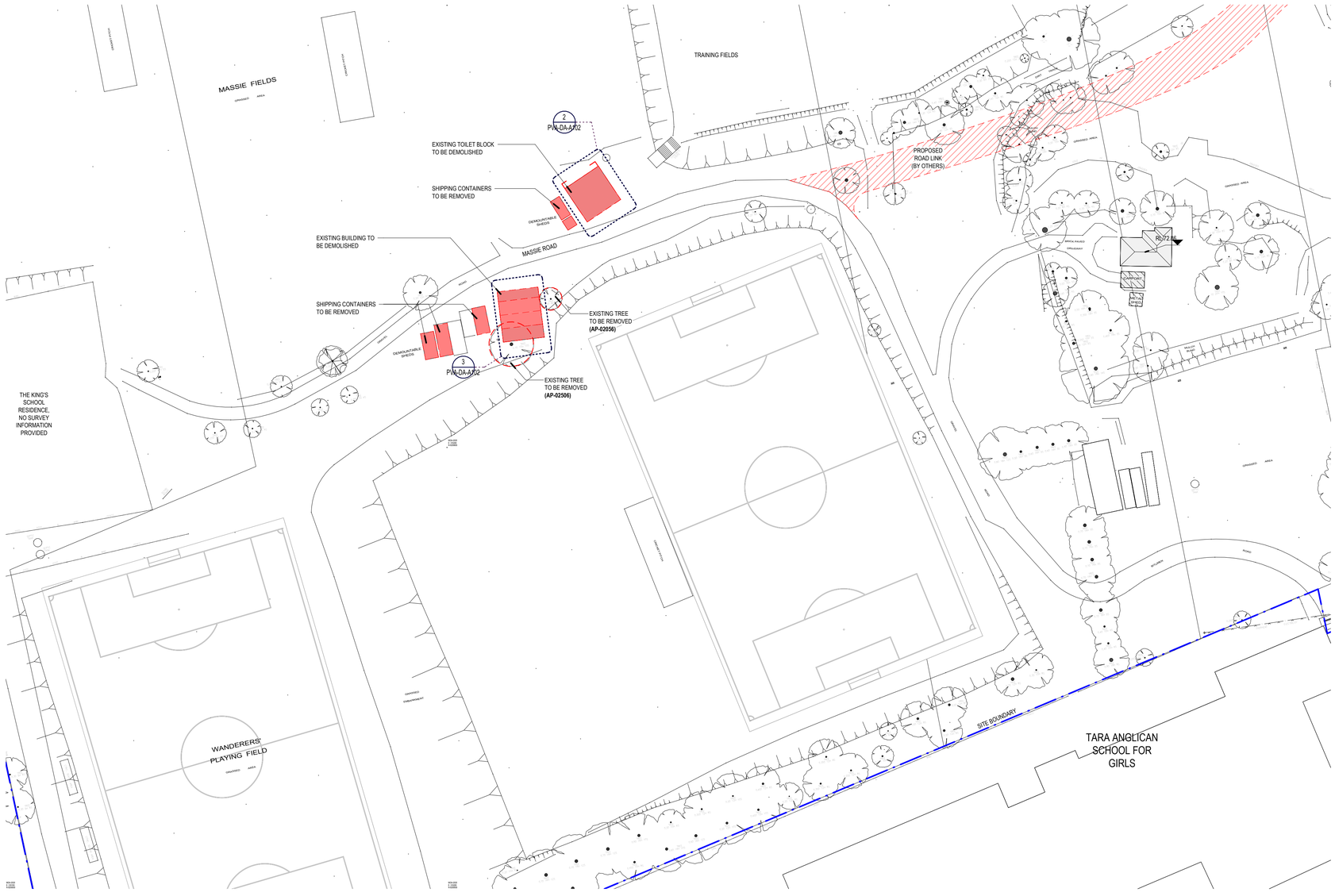
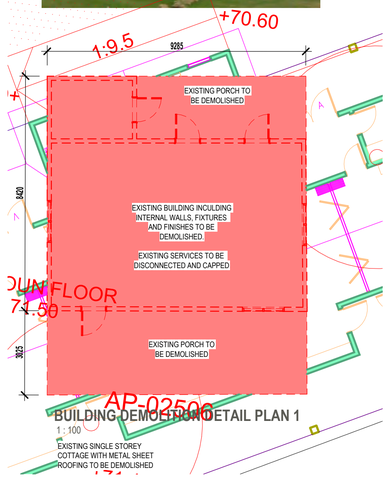
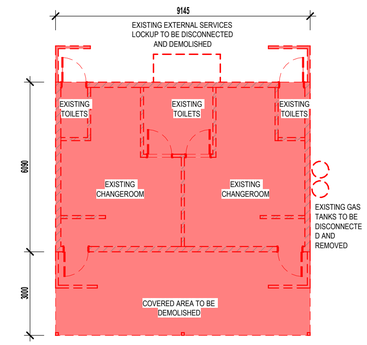


DEMOLITION PLAN
1 : 500



BUILDING DEMOLITION DETAIL PLAN 1
1 : 100

EXISTING SINGLE STOREY COTTAGE WITH METAL SHEET ROOFING TO BE DEMOLISHED



BUILDING DEMOLITION DETAIL PLAN 2
1 : 100

EXISTING TOILET/CHANGE BUILDING TO BE DEMOLISHED
*CONCRETE BLOCK CONSTRUCTION WITH FLAT METAL SHEET ROOFING

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4	21.07.23	ISSUE FOR SSDA (DRAFT)	JS	CM

LEGEND
- DEMOLISHED BUILDING
- EXTERNAL AND EARTHWORKS

NORTH

PRELIMINARY - SSDA CONCEPT PROPOSAL
PROJECT PHASE

Sports Pavilion (PAV)
PROJECT TITLE

87-129 Pennant Hills Rd, North Parramatta NSW 2151
SITE ADDRESS

The Kings School
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DEMOLITION SITE PLAN

DRAWING TITLE

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PVA-DA-A102
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4
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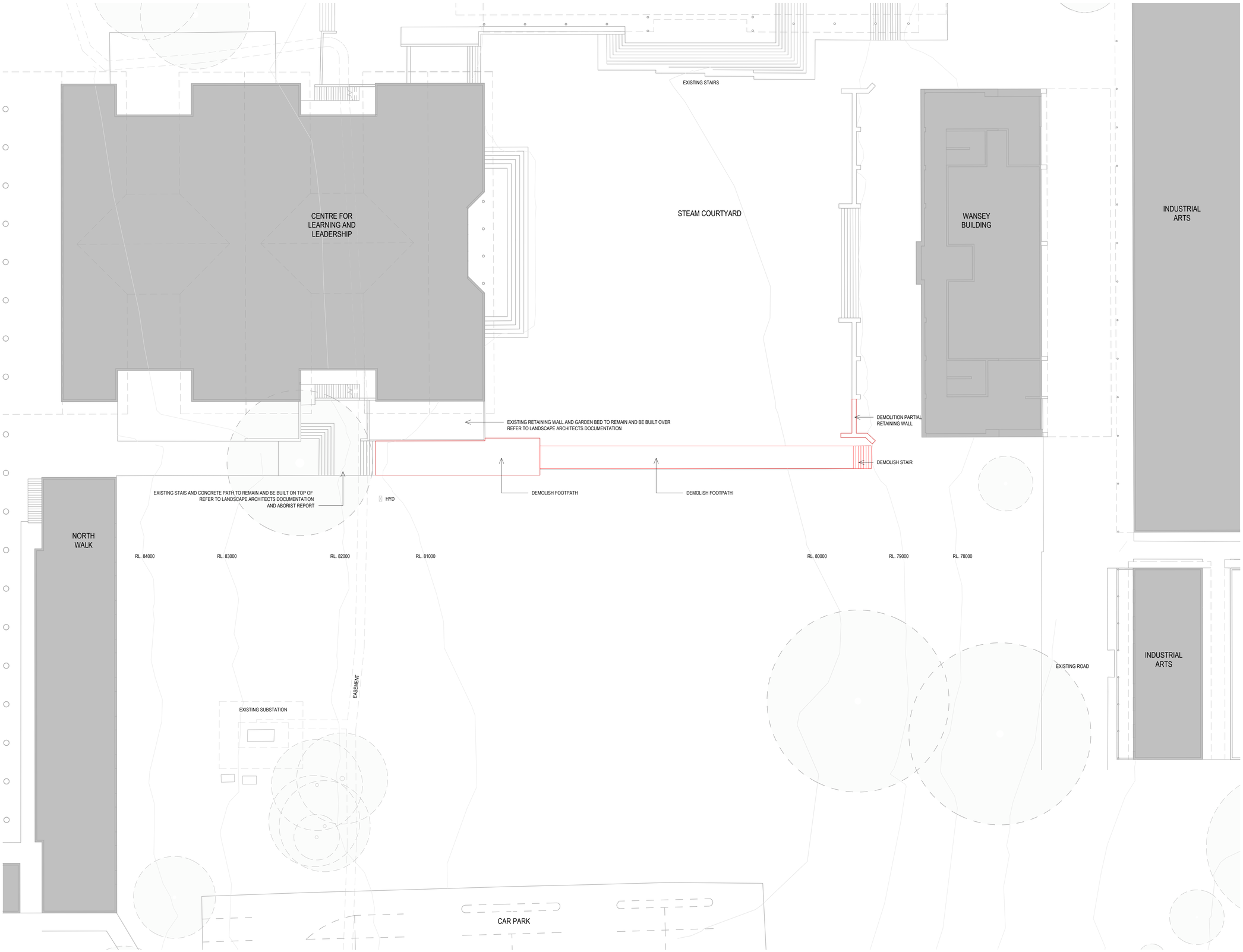
SCALES AT A1

22066
PROJECT NUMBER



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01	29.06.2023	SSDA	
02	21.07.2023	SSDA	

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TAYLOR BRAMMER
02 9387 8855
PROJECT MANAGER
TSA
02 9276 1400
CLIENT

KING'S SCHOOL
CLIENT NUMBER

STEAM BUILDING
PROJECT

THE KING'S SCHOOL STEAM BUILDING
87-129 Pennant Hills Rd.
North Parramatta, NSW
BVN PROJECT NUMBER

2108012
DRAWING KEY

TRUE NORTH PROJECT NORTH

GRAPHIC SCALE
0 2000 5000
SCALE

1 : 200@A1
STATUS

DRAWING

DEMOLITION PLAN

ISSUE

STM-AR-DA-21B-XX-01 02

LEGEND

- site boundary
- S existing sewer line
- structure to be demolished
- to be demolished

TREE LEGEND

- T00 arborist report tree number
- existing tree to be retained
- SRZ structural root zone
- TPZ tree protection zone
- existing tree to be removed

north

0 10m

1:200 @ A1 / 1:400 @ A3

2236 - 01 SD PLANS MASTER.vwx

project architect:

KENNEDY ASSOCIATES ARCHITECTS

level 3 / 1 booth street annandale 2038
nominated architect - anthony nolan - 6773
p + 61 2 9557 6466

Staff Residences Project, Wade Road
The King's School, North Parramatta

title:

DEMOLITION PLAN

job no - sheet no - revision:

2236 - DA04 - P3

date:

2/7/2023 Draft SSDA

LEGEND

- site boundary
- existing sewer line
- structure to be demolished
- to be demolished

TREE LEGEND

- T00 arborist report tree number
- existing tree to be retained
- SRZ structural root zone
- TPZ tree protection zone
- existing tree to be removed

north

0 10m

1:200 @ A1 / 1:400 @ A3

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nominated architect - anthony nolan - 6773
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Staff Residences Project, Wade Road
The King's School, North Parramatta

title:

DEMOLITION PLAN

job no - sheet no - revision:

2236 - DA04 - p1

date:

9/3/23 issue for coordination

Appendix E Soccer Bathrooms Hasardous Materials Removal Documentation

JBS&G (66596– 157,894)
L01 (Asbestos Clearance - Soccer Bathrooms - TKS) Rev 0

29 February 2024

The King's School
C/- Malcolm Taylor
TSA Managament Pty Ltd
Via email: malcolm.taylor@tsamgt.com

L01: Asbestos Clearance Certificate – Soccer Bathrooms, The Kings School, Parramatta NSW

Dear Malcolm,

1. Introduction and Background

JBS&G Australia Pty Ltd (JBS&G) was engaged by The King's School (TKS, the Client) Parramatta, care of TSA Management Pty Ltd (TSA), to provide asbestos supervision and clearance services associated with friable asbestos removal works within the Soccer Bathrooms located at The Kings School, North Parramatta NSW (the site).

A hazardous building material survey (HBMS) completed by JBS&G[1] for the proposed construction of a new STEAM Building (Science, Technology, Engineering, Arts and Mathematics), identified friable asbestos dust within a sample collected from the top of a toilet cubicle partition wall within the Soccer Bathrooms. As a result, cleanup of friable asbestos impacted dusts and debris and subsequent clearance by appropriately licenced, qualified and experienced contractors / consultants was required for all internal areas of the Soccer Bathrooms.

The information described herein documents the results of the clearance inspection following the removal of asbestos impacted dusts and debris throughout the internal Soccer Bathrooms.

The site location and site layout are shown in **Figure 1** and **Figure 2** (**Attachment 2**), respectively**.** The specific asbestos clearance area is shown in **Figure 3** (**Attachment 2**).

Report Limitations are included as **Attachment 1**. Photographs are included as **Attachment 4.**

2. Site Details

Site Details	
Client	The King's School, care of TSA Management Pty Ltd
Contact Person & Phone Site Contact & Phone	Malcolm Taylor (TSA) –0400 951 961 Peter West (TKS) – 0418 445 416
Location	The Soccer Bathroom Building, The King School, Russel Road, North Parramatta, NSW 2151
Defined Clearance Area	Interior surfaces throughout the Soccer Bathrooms including changerooms, showers and toilets of both Home and Visitors sides and rear ladies' toilets. Refer to description below and **Figures 3 (Attachment 2)**.

[1] *The Council of the Kings School, Hazardous Building Materials Survey, The Kings School, 87-129 Pennant Hills Road, Parramatta NSW*. Progressive Risk Management Pty Ltd, issued 16 August 2023, 61452/154,048 (JBS&G 2023)

Site Details	
Description of Asbestos Clearance Area	This asbestos clearance certificate covers surfaces of building fabric, equipment and other contents within the confines of the clearance area, including but not limited to: • Concrete slab floors and painted Besser block walls. • Timber partitions, doors, bench seats, coat rails and roof joists. • Underside to metal Klip-Lok roof sheeting. Photographs are included as **Attachment 4**.

3. Asbestos Removal Details

Asbestos Remediation Works	
Date/s of asbestos removal works	Monday 26 and Tuesday 27 February 2024
Licensed Asbestos Removal Contractor	RMA Group Contracting
Licence No.	Class A: AD211455
Licensed Asbestos Removal Supervisor	Leon Johnstone – 0411 674 119
Asbestos Removal Control Plan	ARCP (RMA 2024a[2])
Safe Work Method Statement	SWMS (JBS&G 2024[3]) SWMS (RMA 2024b[4])
SafeWork NSW Friable Asbestos Removal Notification	Issue No. 943R-00401878-01
Removal Methods	The following methods were applied during the removal and cleanup: • Setup of an asbestos removal enclosure via the use of 200 µm polythene to seal-up openings to the building. Open concrete block windows were cleaned vacuumed and inspected prior to sealing up. • Use of H-Type vacuum with HEPA filter to vacuum accessible surfaces from roof to the floor. Following vacuum, wet wiping of surfaces, e.g. walls, floor, roof underside, doors, bench seats, toilet and shower facilities, etc. • Waste dusts, debris and cleaning materials for lawful offsite disposal were sealed in 200 µm polythene asbestos bags and wet wiped prior to removal from the asbestos work area. • Application of clear sealant (PVA emulsion) to tops of elevated and porous horizontal surfaces, i.e. tops of Besser block walls, coat rails, timber partition walls, timber roof joists, etc. Asbestos removal works were overseen by JBS&G and were observed to be undertaken in general accordance with industry best practice and compliant with SafeWork NSW Codes of Practice, *How to Safely Remove Asbestos* (2022), and *How to Manage and Control Asbestos in the Workplace* (2022) and JBS&G 2023. Controls measures implemented included exclusion zones, containment, use of asbestos removal personal protective and respiratory equipment, appropriate cleanup methods, personal, equipment and waste decontamination systems and procedures.

[2] *Asbestos Removal Control Plan, JBS&G The Kings School North Parramatta,* Dated 21 February 2024, Project No. P24061.1 (RMA 2024a).

[3] *Safe Work Method Statement, Soccer Bathrooms - The Kings School Parramatta*. Dated 22 February 2024 (JBS&G 2024)

[4] *Safe Work Method Statement, Asbestos Removal from Bathroom Block & Tennis Courts - The Kings School Parramatta*. Dated 21 February 2024, SWMS #: P24061.1 (RMA 2024b).

Asbestos Remediation Works	
Containment & Inspections	Inspection of the asbestos work area enclosure was conducted prior to the commencement of works. The purpose of this inspection was to confirm that adequate controls were in place for the works to be conducted. Progress inspections were conducted periodically by JBS&G throughout the duration of dust and debris cleanup works. A final clearance inspection was conducted at the completion of works to ensure that internal building surfaces and retained contents had been adequately cleaned and that no gross accumulations of dust, debris or other residues remained. A post works inspection was conducted following the removal of decontamination and containment plastics to confirm the absence of visible asbestos, dust or debris.
Date of Final Clearance Inspection	Tuesday 27 February 2024
JBS&G Licenced Asbestos Assessor (LAA) Competent Persons	Aaron Smith (LAA 001 001) Jordan Gomez (Competent Person)
Exclusions	The clearance does not apply to any inaccessible areas or surfaces that could not be readily inspected, the sub-surface within the defined clearance area or any areas outside the defined clearance area boundaries. Refer **Limitations**, **Attachment 1**.

4. Asbestos Removal Controls

Details/Action	Yes/No	Comments
Was the asbestos removal work area adequately isolated and contained during the works?	Yes	Builders' plastic (200 µm polythene) and adhesive tape were used to seal up gaps around the work area. Barricading and warning signage was placed at perimeters and entry points.
Was an adequate decontamination area established for the works?	Yes	Personal decontamination systems were incorporated to the work area.
Was adequate personal protective equipment (PPE) available?	Yes	Half face P2 silicon respirators, Type 5 disposable coveralls, gloves and boot covers were used by removal personnel when within the asbestos removal work area.
Was water supply and equipment for dust suppression adequate?	Yes	A combination of vacuuming and wet wiping / washing was implemented for the cleanup. Adequate water and dust suppression were maintained for the duration of works.
Was asbestos fibre air monitoring undertaken?	Yes	Asbestos fibre air monitoring was undertaken by JBS&G for the duration of the asbestos removal works. Monitors were positioned around the structure / removal boundaries. Asbestos clearance air monitoring was conducted at several locations within the internal work area (1) at the completion of asbestos in dust removal works (26/02/24), and (2) following the removal of all enclosure plastics and materials (27/02/24). Air monitoring was completed in accordance with the *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres* [NOHSC: 3003(2005)], with NATA certification applying to all collection, handling and analytical procedures.
Were the results of air monitoring deemed to be acceptable?	Yes	All daily air monitoring results during asbestos removal works were reported satisfactory and conform with the minimum action level of <0.01 fibres /mL for control monitoring as outlined in: • Work, Health and Safety (2017) Regulation; and • Safe Work Australia (2022) Code of Practice – *How to Safely Remove Asbestos.* Refer Air Monitoring Report AMR001 **(Attachment 6**)

Details/Action	Yes/No	Comments
		The results of clearance air monitoring conducted both pre and post deconstruction of the enclosure were also reported as satisfactory with all results reported as <0.01 fibres /mL. Refer Air monitoring reports AMR002 and AMR003 (**Attachment 6**).
Were asbestos removal works completed in accordance with prepared documentation, relevant regulations and codes of practice?	Yes	Asbestos removal works were overseen by JBS&G and were observed to be completed to a high industry standard.

5. Asbestos Clearance Inspection

Visual Clearance Outcome/Action	Yes/No	Comments
Were any areas not able to be cleaned or inspected?	No	All areas were adequately accessible for cleaning and inspection.
Following final inspection of the clearance area was any visible asbestos or unacceptable quantities of dust, debris or residues observed?	No	No visible asbestos or unacceptable bulk accumulations of dust or debris were observed to internal building surfaces or contents during the final inspections. As an additional measure following confirmed adequacy of removal works, clear sealant (PVA emulsion) was applied to tops of elevated and porous horizontal surfaces, i.e. tops of Besser block walls, coat rails, timber partition walls, timber roof joists, etc. Refer to **Photographs** in **Attachment 4**.

6. Asbestos Validation Sampling

Asbestos Validation Samples	Yes/No	Comments
Were validation samples collected?	Yes	A total of five (5) validation samples (V01-V05), representative of minor quantities of dust and other residues remaining within the clearance area, were collected following asbestos removal works. Refer to **Table 1: Validation Summary** as **Attachment 3** for sample details and results.
Was asbestos detected in any of the validation samples?	No	No asbestos was detected in any of the validation samples.
Were the results of validation samples deemed to be satisfactory?	Yes	Results for all validation samples were reported as: ***'No asbestos detected. No trace asbestos detected***. Refer to NATA accredited Laboratory Reports as **Attachment 5**.

7. Final Clearance & Validation Outcome

Asbestos Validation Samples	Yes/No	Comments
Can the cleared area be re-occupied	Yes	The asbestos clearance area as defined in **Section 2** and shown in **Figures 2** is deemed to be suitable for normal re-occupation.
Is additional asbestos management required?	No	

8. Conclusions

Based on the information presented herein, and the **Limitations** in **Attachment 1**, the following conclusions are made:

- No visible asbestos or bulk accumulations of dust or debris was observed within the subject clearance area during the final clearance inspections;
- On completion of the cleanup works, validation samples were collected of residual dusts at five (5) locations within the designated removal area and analysed for asbestos. The results of all validation samples were reported as *'No asbestos or trace asbestos detected'*.
- The results of control asbestos air monitoring conducted for the duration of the asbestos removal works were satisfactory.
- The results of the clearance air monitoring conducted at the completion of asbestos removal works and following removal of enclosure plastics were satisfactory.

On this basis, it is considered that the works have been satisfactorily completed for the clearance area described in **Section 2.** The Soccer Bathroom Building is considered suitable to be reoccupied under non-asbestos controlled conditions.

Should you require clarification, please contact the undersigned on 0402 058 230 or by email ajsmith@jbsg.com.au.

Yours sincerely:

Aaron Smith
Associate – Occupational Hygiene
Licensed Asbestos Assessor (LAA 001 001)
JBS&G Australia Pty Ltd

Reviewed/Approved by:

Michael Samuel
Operations Manager – Hazardous Materials
Licensed Asbestos Assessor (LAA 000 157)
JBS&G Australia Pty Ltd

Attachments:

(1) Limitations
(2) Figures
(3) Validation Sample Summary
(4) Photographic Log
(5) Validation Sample Analysis Results
(6) Air Monitoring Reports

Attachment 1 – Limitations

This report has been prepared for use by the client who has commissioned the works in accordance with the project brief only, and has been based in part on information obtained from the client and other parties. The report has been prepared specifically for the client for the purposes of the commission, and no warranties, express or implied, are offered to any third parties and no liability will be accepted for use or interpretation of this report by any third party.

The advice herein relates only to this project and all results conclusions and recommendations made should be reviewed by a competent person with experience in environmental investigations, before being used for any other purpose. This report should not be amended in any way without prior approval by JBS&G, or reproduced other than in full including all attachments as originally provided to the client by JBS&G.

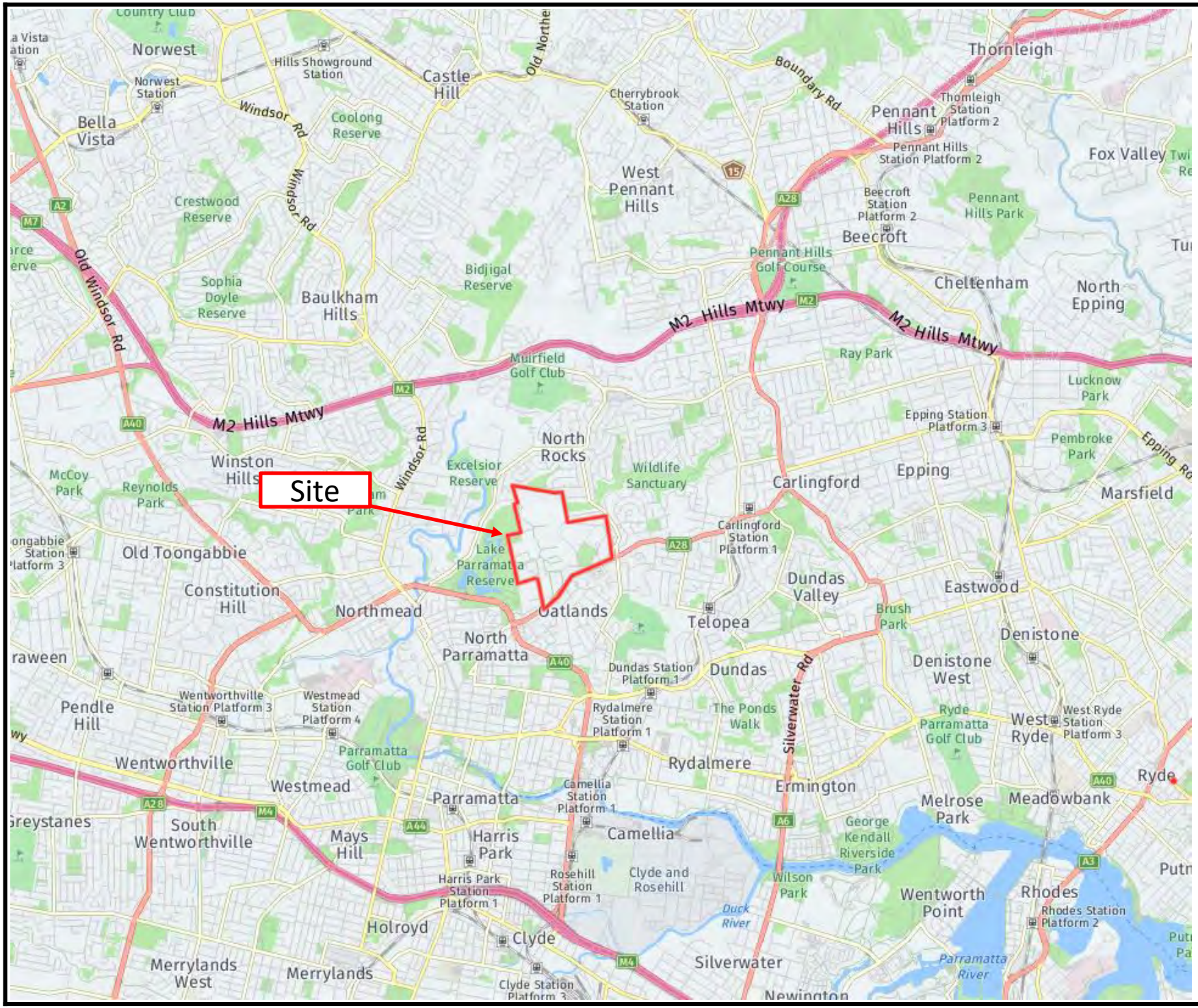
Sampling and chemical analysis of environmental media is based on appropriate guidance documents made and approved by the relevant regulatory authorities. Conclusions arising from the review and assessment of environmental data are based on the sampling and analysis considered appropriate based on the regulatory requirements or agreed scope of work.

Limited sampling and laboratory analyses were undertaken as part of the investigations undertaken, as described herein. Conditions between sampling locations and media may vary, and this should be considered when extrapolating between sampling points. Chemical analytes are based on the information detailed in the site history. Further chemicals or categories of chemicals may exist at the site, which were not identified in the site history and which may not be expected at the site.

Changes to the conditions may occur subsequent to the investigations described herein, through natural processes or through the intentional or accidental addition of contaminants. The conclusions and recommendations reached in this report are based on the information obtained at the time of the investigations.

This report does not provide a complete assessment of the environmental status of the site, and it is limited to the scope defined herein. Should information become available regarding conditions at the site including previously unknown sources of contamination, JBS&G reserves the right to review the report in the context of the additional information.

Attachment 2 – Figures



Legend:

- Approximate Site Boundary

JBS&G

Job No: 66596	
Client: TSA Management	
Version: L01 - Rev 0	Date: 1/03/2024
Drawn By: AS	Checked By: MS

The Kings School

87-129 Pennant Hills Road
North Parramatta, NSW

SITE LOCATION

FIGURE 1

Legend:

- Approximate Site Boundary
- Soccer Bathroom Building

JBS&G

Job No: 66596

Client: TSA Management

Version: L01 - Rev 0	Date: 1/03/2024
Drawn By: AS	Checked By: MS

The Kings School

87-129 Pennant Hills Road
North Parramatta, NSW

SITE LAYOUT

FIGURE 2

Legend:

- Approximate Site Boundary
- Asbestos Clearance Area – Soccer Bathroom Building

JBS&G

Job No: 66596

Client: TSA Management

Version: L01 – Rev 0	Date: 1/03/2024
Drawn By: AS	Checked By: MS

The Kings School

87-129 Pennant Hills Road
North Parramatta, NSW

ASBESTOS CLEARANCE AREA

FIGURE 3

Attachment 3 – Table 1: Validation Summary

Table 1: Validation Sample Description and Results Summary

Sample ID	Sample Type	Location / Description	Results Summary
Asbestos Validation Sampling			
V01	Dust/debris	Soccer Bathrooms – Visitors side, bench seat framework	No asbestos detected. No trace asbestos detected.
V02	Dust/debris	Soccer Bathrooms – Visitors side, top of coat rail	No asbestos detected. No trace asbestos detected.
V03	Dust/debris	Soccer Bathrooms – Visitors side, floor of central toilet area	No asbestos detected. No trace asbestos detected.
V04	Dust/debris	Soccer Bathrooms – Home side, frame of shower partition wall	No asbestos detected. No trace asbestos detected.
V05	Dust/debris	Soccer Bathrooms – Home side, bench seat framework	No asbestos detected. No trace asbestos detected.

Attachment 4 – Photographs

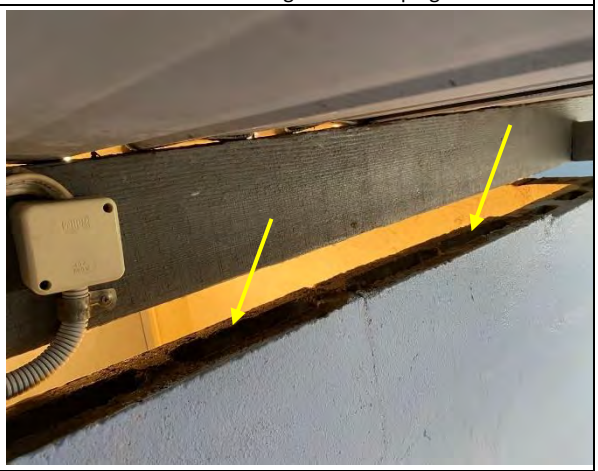
Photograph 1: The Soccer Bathrooms, showing front main entry to Home and Visitors sides.

Photograph 2: The Soccer Bathrooms, showing rear ladies toilets x 2.

Photograph 3: Setup of an asbestos removal enclosure via the use of 200 µm polythene to seal-up openings to the building.

Photograph 4: Cleaning of dusts from internal surfaces by HEPA vacuuming and wet wiping.

Photograph 5: Application of PVA emulsion following completion of primary removal works.



Photograph 6: Application of PVA emulsion following completion of primary removal works.

Photograph 7: Clearance area at completion of asbestos cleanup works (rear Ladies toilets x 2).

Photograph 8: Clearance area at completion of asbestos cleanup works (Visitor change room).

Photograph 9: Clearance area at completion of asbestos cleanup works (Visitor showers).

Photograph 10: Clearance area at completion of asbestos cleanup works (central toilets).

Photograph 11: Clearance area at completion of asbestos cleanup works (Home change room).

Photograph 12: Clearance area at completion of asbestos cleanup works (Home change room).

Attachment 5 – Laboratory Validation Sample Results

CHAIN OF CUSTODY

21757

JBS&G

PROJECT NO.: 66069
PROJECT NAME: Parramatta
DATE NEEDED BY: Same Day
PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) mSamuel@jbsg.com.au; (3) AARON@jbsg.com.au
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: AS.
QC LEVEL: NEPM (2013)

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
VO1 ~~Fig Beach~~	dust	27/2/24		2.plastic		X		
VO2 ~~Fig Rail~~						X		
VO3 ~~Toilet~~						X		
VO4 ~~Home Shower~~								
VO5 ~~Home Beach~~								

RELINQUISHED BY:
NAME: DATE: 27/2/24
OF: JBS&G

NAME: DATE:
OF:

METHOD OF SHIPMENT:
CONSIGNMENT NOTE NO.
TRANSPORT CO.

CONSIGNMENT NOTE NO.
TRANSPORT CO

RECEIVED BY:
NAME:
DATE: 27/2/24 1:22pm
OF:

NAME: DATE:
OF:

FOR RECEIVING LAB USE ONLY:
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP NA deg C

COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

1072635

Certificate of Analysis

eurofins | Environment Testing

NATA Accredited
Accreditation Number 1261
Site Number 18217

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

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention:	- Michael Samuel
Report	1072635-AID-V2
Project Name	PARRAMATTA
Project ID	66596
Received Date	Feb 27, 2024
Date Reported	Feb 29, 2024

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 PARRAMATTA
Project ID 66596
Date Sampled Feb 27, 2024
Report 1072635-AID-V2

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
V01	24-Fe0066562	Feb 27, 2024	Approximate Sample <1g Sample consisted of: Dust particles, soft fibrous material, plant matter, paint flakes and organic debris	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
V02	24-Fe0066563	Feb 27, 2024	Approximate Sample 1g Sample consisted of: Dust particles, soft fibrous material fragments, paint flakes, wood chips and organic debris	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
V03	24-Fe0066564	Feb 27, 2024	Approximate Sample <1g Sample consisted of: Dust particles, plant matter, sand and organic debris	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
V04	24-Fe0066565	Feb 27, 2024	Approximate Sample <1g Sample consisted of: Dust particles, plant matter, sand and organic debris	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
V05	24-Fe0066566	Feb 27, 2024	Approximate Sample 1g Sample consisted of: Dust particles, wood strips, sand, plant matter, adhesive type material and organic debris	No asbestos detected at the reporting limit of 0.01% w/w. 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	Feb 27, 2024	Indefinite

eurofins

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

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

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

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

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland	Auckland (Asb)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise,	43 Detroit Drive	1277 Cameron Road,
Penrose,	Mount Wellington,	Rolleston,	Gate Pa,
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: PARRAMATTA
Project ID: 66596

Order No.:
Report #: 1072635
Phone: 02 8245 0300
Fax:

Received: Feb 27, 2024 1:22 PM
Due: Feb 27, 2024
Priority: Same day
Contact Name: - Michael Samuel

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - AS4964
Sydney Laboratory - NATA # 1261 Site # 18217						X
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	V01	Feb 27, 2024		Building Materials	S24-Fe0066562	X
2	V02	Feb 27, 2024		Building Materials	S24-Fe0066563	X
3	V03	Feb 27, 2024		Building Materials	S24-Fe0066564	X
4	V04	Feb 27, 2024		Building Materials	S24-Fe0066565	X
5	V05	Feb 27, 2024		Building Materials	S24-Fe0066566	X
Test Counts						5

Internal Quality Control Review and Glossary General

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

Holding Times

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

Units

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

Calculations

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

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

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

Terms

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

Comments

V2- new version to amend project number from 66069 to 66596 as per client request on 29/2/24 via email.

Sample Integrity

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

Asbestos Counter/Identifier:

Chamath JHM Annakkage	Senior Analyst-Asbestos

Authorised by:

Sayeed Abu	Senior Analyst-Asbestos

Glenn Jackson
Managing Director

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.

Attachment 6 – Asbestos Air Monitoring Reports

Certificate of Analysis

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

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:	Aaron J Smith
Report	1072223-AFC-V2
Project Name	PARRAMATTA
Project ID	66596
Received Date	Feb 26, 2024
Date Reported	Feb 28, 2024

METHODOLOGY:

Asbestos Sampling	Sampling as per the National Occupational Health & Safety Commission – Guidance Note on The Membrane Filter Method For Estimating Airborne Asbestos Fibres 2nd Edition [NOHSC:3003(2005)] and the NATA Specific Accreditation Criteria, ISO/IEC 17025 Application Document Life Sciences – Annex, Asbestos sampling and testing, Issued: March 2022.
Pump Calibration	Air sampling pump performance has been assessed in accordance with Australian Institute of Occupational Hygiene (AIOH) Technical Paper Air Sampling Pumps: Equipment Calibration Requirements. Pump flow rate measurement equipment (e.g. Field Rotameter) has been calibrated in accordance with AIOH Technical Paper Flow Measurement Equipment: Calibration Requirements.
Asbestos Counting	Fibre counting is conducted in accordance with the National Occupational Health & Safety Commission Guidance Note on the Membrane Filter Method For Estimating Airborne Asbestos Fibres 2nd Edition , [NOHSC:3003(2005)] (MFM) and supplementary work instruction in-house LTM-ASB-8010. Unless specifically noted, analysis is undertaken by approved analysts at the base facility. Fibre counts (Fibres/fields) are covered by the facility's NATA scope of accreditation. The requirements of the NATA Specific Accreditation Criteria, ISO/IEC 17025 Application Document Life Sciences – Annex, Asbestos sampling and testing, Issued: March 2022 are realised.

Project Name PARRAMATTA
Project ID 66596
Date Sampled Feb 26, 2024
Report 1072223-AFC-V2

Eurofins Sample No.	Client Sample ID	Pump ID	Location	Start (time)	End (time)	Start Flow Rate (L/min)	End Flow Rate (L/min)	Result (Fibres/Fields)	Result (Fibres/mL)
24-Fe0063405	DE787263	AC041	SOCCER BATHROOMS (EXTERNAL)- ADJACENT HOME ENTRY	8:11	13:27	2.0	2.0	0/100	< 0.01
24-Fe0063406	DE787286	AC112	SOCCER BATHROOMS (EXTERNAL)- ADJACENT VISITORS ENTRY	8:14	13:29	2.0	2.0	0/100	< 0.01
24-Fe0063407	DE787303	AC111	SOCCER BATHROOMS (EXTERNAL)- ADJACENT ENTRY TO REAR LADIES TOILET (EAST)	8:16	13:33	2.0	2.0	0/100	< 0.01
24-Fe0063408	DE787261	AC018	SOCCER BATHROOMS (EXTERNAL)- ADJACENT ENTRY TO REAR LADIES TOILET (WEST)	8:19	13:36	2.0	2.0	0/100	< 0.01
24-Fe0063409	DE787293	BLANK	BLANK	--	--	--	--	0/100	--

Sample History

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

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

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8010	Sydney	Feb 26, 2024	Indefinite

eurofins

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

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

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

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

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland	Auckland (Asb)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise,	43 Detroit Drive	1277 Cameron Road,
Penrose,	Mount Wellington,	Rolleston,	Gate Pa,
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: PARRAMATTA
Project ID: 66596

Order No.:
Report #: 1072223
Phone: 02 8245 0300
Fax:

Received: Feb 26, 2024 2:46 PM
Due: Feb 26, 2024
Priority: Same day
Contact Name: Aaron J Smith

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos Fibre Count & Concentration
Sydney Laboratory - NATA # 1261 Site # 18217						X
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	DE787263	Feb 26, 2024	8:11AM	Air	S24-Fe0063405	X
2	DE787286	Feb 26, 2024	8:14AM	Air	S24-Fe0063406	X
3	DE787303	Feb 26, 2024	8:16AM	Air	S24-Fe0063407	X
4	DE787261	Feb 26, 2024	8:19AM	Air	S24-Fe0063408	X
5	DE787293	Feb 26, 2024		Air	S24-Fe0063409	X
Test Counts						5

Internal Quality Control Review and Glossary General

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

Holding Times

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

Units

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

Calculations

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

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

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

Terms

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

Comments

Volume Measurement : AARON SMITH, JBS & G Australia (NSW) P/L, has been trained by Eurofins and they conducted the sampling in accordance with the National Occupational Health & Safety Commission - Guidance Note on The Membrane Filter Method For Estimating Airborne Asbestos Fibres 2nd Edition [NOHSC:3003(2005)]methodology. Sampling pumps used by JBS & G Australia (NSW) P/L were calibrated by Eurofins Environment Testing and therefore volume measurements contained in this report are traceable back to Eurofins Environment Testing. Eurofins Environment Testing are responsible for all data contained in this report.

V2- new version to amend project number as per client request.

Sample Integrity

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

Asbestos Counter/Identifier:

Geronimo Jr Abrot	Senior Analyst-Asbestos

Authorised by:

Sayeed Abu	Senior Analyst-Asbestos

Glenn Jackson
Managing Director

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.

Certificate of Analysis

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

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:	Aaron J Smith
Report	1072221-AFC-V2
Project Name	PARRAMATTA
Project ID	66596
Received Date	Feb 26, 2024
Date Reported	Feb 28, 2024

METHODOLOGY:

Asbestos Sampling	Sampling as per the National Occupational Health & Safety Commission – Guidance Note on The Membrane Filter Method For Estimating Airborne Asbestos Fibres 2nd Edition [NOHSC:3003(2005)] and the NATA Specific Accreditation Criteria, ISO/IEC 17025 Application Document Life Sciences – Annex, Asbestos sampling and testing, Issued: March 2022.
Pump Calibration	Air sampling pump performance has been assessed in accordance with Australian Institute of Occupational Hygiene (AIOH) Technical Paper Air Sampling Pumps: Equipment Calibration Requirements. Pump flow rate measurement equipment (e.g. Field Rotameter) has been calibrated in accordance with AIOH Technical Paper Flow Measurement Equipment: Calibration Requirements.
Asbestos Counting	Fibre counting is conducted in accordance with the National Occupational Health & Safety Commission Guidance Note on the Membrane Filter Method For Estimating Airborne Asbestos Fibres 2nd Edition , [NOHSC:3003(2005)] (MFM) and supplementary work instruction in-house LTM-ASB-8010. Unless specifically noted, analysis is undertaken by approved analysts at the base facility. Fibre counts (Fibres/fields) are covered by the facility's NATA scope of accreditation. The requirements of the NATA Specific Accreditation Criteria, ISO/IEC 17025 Application Document Life Sciences – Annex, Asbestos sampling and testing, Issued: March 2022 are realised.

Project Name PARRAMATTA
Project ID 66596
Date Sampled Feb 26, 2024
Report 1072221-AFC-V2

Eurofins Sample No.	Client Sample ID	Pump ID	Location	Start (time)	End (time)	Start Flow Rate (L/min)	End Flow Rate (L/min)	Result (Fibres/Fields)	Result (Fibres/mL)
24-Fe0063278	DE787267	AC116	SOCCER BATHROOMS (INTERNAL)- HOME SIDE	12:19	14:17	4.0	4.0	0/100	< 0.01
24-Fe0063279	DE787301	AC089	SOCCER BATHROOMS (INTERNAL)- VISITORS SIDE	12:22	14:14	4.0	4.0	0/100	< 0.01
24-Fe0063280	DE787316	BLANK	BLANK	--	--	--	--	0/100	--

Sample History

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

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

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8010	Sydney	Feb 26, 2024	Indefinite

eurofins

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

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

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

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

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland	Auckland (Asb)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise,	43 Detroit Drive	1277 Cameron Road,
Penrose,	Mount Wellington,	Rolleston,	Gate Pa,
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: PARRAMATTA
Project ID: 66596

Order No.:
Report #: 1072221
Phone: 02 8245 0300
Fax:

Received: Feb 26, 2024 2:46 PM
Due: Feb 26, 2024
Priority: Same day
Contact Name: Aaron J Smith

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos Fibre Count & Concentration
Sydney Laboratory - NATA # 1261 Site # 18217						X
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	DE787267	Feb 26, 2024	12:19PM	Air	S24-Fe0063278	X
2	DE787301	Feb 26, 2024	12:22PM	Air	S24-Fe0063279	X
3	DE787316	Feb 26, 2024		Air	S24-Fe0063280	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 the colour **blue** indicates data provided by customer that may have an impact on the results.
5. This report replaces any interim results previously issued.

Holding Times

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

Units

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

Calculations

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

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

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

Terms

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

Comments

Volume Measurement : AARON SMITH, JBS & G Australia (NSW) P/L, has been trained by Eurofins and they conducted the sampling in accordance with the National Occupational Health & Safety Commission - Guidance Note on The Membrane Filter Method For Estimating Airborne Asbestos Fibres 2nd Edition [NOHSC:3003(2005)]methodology. Sampling pumps used by JBS & G Australia (NSW) P/L were calibrated by Eurofins Environment Testing and therefore volume measurements contained in this report are traceable back to Eurofins Environment Testing. Eurofins Environment Testing are responsible for all data contained in this report.

V2- new version to amend project number as per client request.

Sample Integrity

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

Asbestos Counter/Identifier:

Geronimo Jr Abrot	Senior Analyst-Asbestos

Authorised by:

Sayeed Abu	Senior Analyst-Asbestos

Glenn Jackson
Managing Director

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.

Certificate of Analysis

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

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:	- Michael Samuel
Report	1072630-AFC-V2
Project Name	PARRAMATTA
Project ID	66596
Received Date	Feb 27, 2024
Date Reported	Feb 28, 2024

METHODOLOGY:

Asbestos Sampling	Sampling as per the National Occupational Health & Safety Commission – Guidance Note on The Membrane Filter Method For Estimating Airborne Asbestos Fibres 2nd Edition [NOHSC:3003(2005)] and the NATA Specific Accreditation Criteria, ISO/IEC 17025 Application Document Life Sciences – Annex, Asbestos sampling and testing, Issued: March 2022.
Pump Calibration	Air sampling pump performance has been assessed in accordance with Australian Institute of Occupational Hygiene (AIOH) Technical Paper Air Sampling Pumps: Equipment Calibration Requirements. Pump flow rate measurement equipment (e.g. Field Rotameter) has been calibrated in accordance with AIOH Technical Paper Flow Measurement Equipment: Calibration Requirements.
Asbestos Counting	Fibre counting is conducted in accordance with the National Occupational Health & Safety Commission Guidance Note on the Membrane Filter Method For Estimating Airborne Asbestos Fibres 2nd Edition , [NOHSC:3003(2005)] (MFM) and supplementary work instruction in-house LTM-ASB-8010. Unless specifically noted, analysis is undertaken by approved analysts at the base facility. Fibre counts (Fibres/fields) are covered by the facility's NATA scope of accreditation. The requirements of the NATA Specific Accreditation Criteria, ISO/IEC 17025 Application Document Life Sciences – Annex, Asbestos sampling and testing, Issued: March 2022 are realised.

Project Name PARRAMATTA
Project ID 66596
Date Sampled Feb 27, 2024
Report 1072630-AFC-V2

Eurofins Sample No.	Client Sample ID	Pump ID	Location	Start (time)	End (time)	Start Flow Rate (L/min)	End Flow Rate (L/min)	Result (Fibres/Fields)	Result (Fibres/mL)
24-Fe0066521	DE787326	AC116	SOCCER CHANGE ROOM- HOME SIDE (INTERNAL)	8:19	10:45	4.0	4.0	0/100	< 0.01
24-Fe0066522	DE787300	AC089	SOCCER BATHROOMS- VISITORS SIDE (INTERNAL)	8:21	10:51	4.0	4.0	0/100	< 0.01
24-Fe0066523	DE787313	AC112	TOILET CUTICLES- CENTRAL (INTERNAL)	8:23	10:53	4.0	4.0	0/100	< 0.01
24-Fe0066524	DE787309	--	BLANK	--	--	--	--	0/100	--

Sample History

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

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

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8010	Sydney	Feb 27, 2024	Indefinite

eurofins

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

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

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

Eurofins ARL Pty Ltd
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NATA# 2377
Site# 2370

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland	Auckland (Asb)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise,	43 Detroit Drive	1277 Cameron Road,
Penrose,	Mount Wellington,	Rolleston,	Gate Pa,
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: PARRAMATTA
Project ID: 66596

Order No.:
Report #: 1072630
Phone: 02 8245 0300
Fax:

Received: Feb 27, 2024 1:27 PM
Due: Feb 27, 2024
Priority: Same day
Contact Name: - Michael Samuel

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos Fibre Count & Concentration
Sydney Laboratory - NATA # 1261 Site # 18217						X
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	DE787326	Feb 12, 2024		Air	S24-Fe0066521	X
2	DE787300	Feb 12, 2024		Air	S24-Fe0066522	X
3	DE787313	Feb 12, 2024		Air	S24-Fe0066523	X
4	DE787309	Feb 12, 2024		Air	S24-Fe0066524	X
Test Counts						4

Internal Quality Control Review and Glossary General

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

Holding Times

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

Units

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

Calculations

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

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

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

Terms

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

Comments

Volume Measurement : , JBS & G Australia (NSW) P/L, has been trained by Eurofins and they conducted the sampling in accordance with the National Occupational Health & Safety Commission - Guidance Note on The Membrane Filter Method For Estimating Airborne Asbestos Fibres 2nd Edition [NOHSC:3003(2005)]methodology. Sampling pumps used by JBS & G Australia (NSW) P/L were calibrated by Eurofins Environment Testing and therefore volume measurements contained in this report are traceable back to Eurofins Environment Testing. Eurofins Environment Testing are responsible for all data contained in this report.

V2- new version to amend project number as per client request.

Sample Integrity

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

Asbestos Counter/Identifier:

Bennel Jiri	Senior Analyst-Asbestos

Authorised by:

Sayeed Abu	Senior Analyst-Asbestos

Glenn Jackson
Managing Director

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.

Appendix F Tennis Court West Grandstand Hasardous Materials Removal Documentation

JBS&G 66596/ 158,177
L02 (Summary of Works – Tennis Court - TKS) Rev 0

20 March 2024

The King's School
C/- Malcolm Taylor
TSA Managament Pty Ltd
Via email: malcolm.taylor@tsamgt.com

L02: Summary of Works – Tennis Court Area Additional Subsurface Investigations
The Kings School, 87-129 Pennant Hills Road, North Parramatta NSW

Dear Malcom,

1. Introduction & Background

JBS&G Australia Pty Ltd (JBS&G) was engaged by The King's School (TKS, the Client), care of TSA Management Pty Ltd (TSA), to provide environmental consulting services at The Kings School located at 87-129 Pennant Hills Road, North Parramatta NSW (the site).

A hazardous building material survey (HBMS) completed by JBS&G[1] for the proposed construction of a new STEAM Building (Science, Technology, Engineering, Arts and Mathematics), identified non-friable asbestos materials identified within the surface soil of the west grandstand at the tennis courts. During the proposed removal of these identified asbestos hazards, further hazards were suspected to be present in the form of potential friable asbestos. JBS&G was subsequently requested to undertake further investigations to determine the presence/absence of these potential friable asbestos hazards.

This summary of works letter has been prepared to document the additional investigation works and the observations made by JBS&G since those made during the initial HBMS (JBS&G 2023).

2. Summary of Works

2.1 Site Works – 27 February 2024

The site was attended on 27 February 2024 by Aaron Smith, one of JBS&Gs experienced Licensed Asbestos Assessors (LAA 000157). A summary of the observations made and works completed during the JBS&G inspection are summarised as follows:

- JBS&G was engaged by the client for the supervision and removal of previously identified loose non-friable asbestos containing debris to the unsealed ground surfaces to the western extent of the tennis court west grandstand.
- All visible ground surface asbestos containing fibre cement debris was collected from the area.

[1] *The Council of the Kings School, Hazardous Building Materials Survey, The Kings School, 87-129 Pennant Hills Road, Parramatta NSW*. Progressive Risk Management Pty Ltd, issued 16 August 2023, 61452/154,048 (JBS&G 2023)

- It was observed during the asbestos removal works that several of the identified asbestos containing debris were severely weathered and were considered to be in a friable condition based on the LAA's observations.
- JBS&G recommended to the client that an assessment of ground surface soils should be undertaken to determine the potential presence of friable asbestos (free asbestos fibres) in soil, to which the client agreed.
- JBS&G subsequently collected three representative surface soil samples (S01 – S03) from across the broader area that the ground surface asbestos debris was previously identified and subsequently removed. The locations of these surface soil samples are shown in **Attachment 2 – Figure 3**.
- Two of three surface soil samples reported the presence of friable asbestos within soil in the form of weathered fragments of fibre cement (S03) and loose asbestos fibre bundles and as asbestos fines (i.e. asbestos materials less than a 7mm fraction) as fibre cement materials (S01). A fragment of non-friable asbestos fibre cement material was identified in the third sample (S02). Laboratory results are provided as **Attachment 3**.
- As a result of the identified friable asbestos hazards, JBS&G recommended the following immediate actions to the client:
    - Restrict access to the identified area via installation of temporary physical barriers (e.g. fencing, barricades); and
    - Cover the area with a geofabric lining or similar to prevent potential migration of the surface soils in the immediate future.
- As a result of the findings, JBS&G recommended the following additional tasks to further inform the extent of the friable asbestos impacted soils and potential removal/management options that may be available to the client:
    - Undertake intrusive investigations to assess the depth of fill materials associated with the friable asbestos impacted soils adjacent the tennis court;
    - Undertake intrusive investigations to determine the lateral extent of the fill materials associated with the friable asbestos impacted soils associated with the tennis courts; and
    - Undertake waste classification sampling of soils in anticipation of their proposed removal and off-site disposal.

2.2 Site Works – 5 March 2024

The site was subsequently attended on 5 March 2024 by Robert Sharp, one of JBS&Gs experienced Licensed Asbestos Assessors (LAA 001343) to complete the additional works recommended and summarised in **Section 2.1**.

A summary of the observations made and works completed during the JBS&G inspection are summarised as follows:

- The site was observed to have been barricaded from general access with geofabric placed over all exposed soils at the time of the inspection.
- Seventeen (17) test pits were installed by hand across the area to identify the lateral extent and vertical depth of the friable asbestos impacted fill material.
- The impacted fill material was identified as a light brown clay with inclusions of brick, plastic and tile with sporadic occurrences of asbestos cement fragments. The underlaying material identified as a brown silty clay with no inclusions.

- It was observed that the fill material extends approximately 0.2m below the ground surface (bgs) and laterally covered an area of approximately 480m^2 extending along the length of the western extent of the Tennis Courts and west to the existing roadway, including the existing flower bed/landscaped areas (refer to **Figure 4 – Attachment 2**).
- Six (6) samples of the asbestos impacted soils were collected for laboratory analysis for waste classification purposes in accordance with NSW EPA *Waste Classification Guidelines – Part 1: Classifying Waste* (NSW EPA 2014). All samples were collected using a clean pair of nitrile gloves at each sample location. Samples were placed into individual laboratory supplied glass jars, labelled with the job number, sample ID, sample date and the sampler's initials. Each jar was placed into a chilled esky and transported under chain of custody conditions to a NATA Accredited Laboratory to be analysed for:
    - Total recoverable hydrocarbons (TRH);
    - Benzene, toluene, ethylbenzene and xylenes (BTEX);
    - Polycyclic aromatic hydrocarbons (PAH);
    - Polychlorinated Biphenyls (PCB);
    - Organochlorine pesticides (OCP);
    - Heavy metals (As, Cd, Cr, Cu, Ni, Pb, Zn, Hg); and
    - Toxicity characteristic leaching procedure (TCLP) analysis for Nickel.

The resultant waste classification of the asbestos impacted soils was reported as 'Special Waste – General Solid Waste (non putrescible) with Asbestos' in a separate waste classification report prepared by JBS&G (JBS&G 2024[2]).

3. Conclusions

Based on the completed works at the site, the observations made and with reference to the limitations provided as **Attachment 1**, the following conclusions are made:

- The asbestos impacted fill materials were identified to extend across an area of approximately 480m^2 and to an approximate depth of 0.2m bgs.
- An anticipated volume of approximately 100m^3 of asbestos impacted soils will require appropriate removal and off site disposal to a suitably licensed waste facility.
- The materials proposed for excavation and off site disposal are classified as **'Special Waste – General Solid Waste (non-putrescible) with Asbestos**' in accordance with NSW EPA (2014).

4. Recommendations

Based on the information presented herein, and the **Limitations** in **Attachment 1**, the following recommendations are made:

- Removal of the identified friable asbestos impacted fill materials shall be completed as soon as practicable with the following to be conducted:
    - A Class A (friable and non-friable) asbestos removal contractor shall be engaged to remove the approximately 0.2m layer of impacted fill materials in the designated area of

[2] *L03 Waste Classification Report – Tennis Court Asbestos Impacted Area, The King's School, 87-129 Pennant Hills Road, Parramatta, NSW*. JBS&G Australia Pty Ltd, 20 March 2024, ref: 66596/158468 (JBS&G 2024)

Work Health and Safety Act (2011), *Work Health and Safety Regulation* (2017) and SafeWork NSW's *Code of Practice – How to Safely Remove Asbestos* (SWNSW 2022).

- SafeWork NSW is to be notified of the proposed friable asbestos removal work with appropriate permits to remove friable asbestos obtained prior to works commencing.
- An asbestos removal control plan is to be developed by the engaged licensed asbestos removalist prior to the removal works outlining the specific control measures necessary to minimise any risk from exposure to asbestos.
- Air monitoring is required to be conducted by a Licenced Asbestos Assessor (LAA) during the removal of the friable asbestos impacted soils.
- The materials must be disposed of to an appropriately licensed landfill in accordance with the NSW EPA (2014).
- Following completion of asbestos removal works, a clearance inspection shall be undertaken by a LAA to ensure that all visible asbestos hazards have been satisfactorily removed.
- Verification soil samples are to be collected from the base and walls of the excavation to ensure that all impacted materials have been removed. Samples shall be collected at a rate of one sample per 100m^2 area from the excavation base and one sample per 10 linear metres from excavation walls. A result of 'No asbestos detected' is required to achieve verification.
- In the event that the visible asbestos hazards remain to any resultant excavation surfaces or asbestos is identified within any verification soil samples collected, additional excavation and asbestos removal activities shall be required to be completed and the clearance inspection recompleted with additional verification soil samples collected until a result of 'No asbestos detected' is achieved.

- An asbestos clearance report shall be issued by the LAA to document the works completed and the results of the inspection and verification soil sampling completed.
- Excavated materials shall be reinstated with imported virgin excavated natural materials (VENM), excavated natural materials (ENM) as per the requirements of the NSW EPA *Excavated Ntaural Materials Exemption 2014*, or other suitable materials that meet the requirements of specific NSW EPA resource recovery orders and exemptions. Appropriate certification of proposed imported materials should be reviewed by JBS&G prior to importing any materials to the site to ensure they are suitable.

Should you require clarification, please contact the undersigned on 02 8245 0300 or by email rsharpsmith@jbsg.com.au.

Yours sincerely:

Robert Sharpsmith
Environmental Consultant
JBS&G Australia Pty Ltd

Michael Samuel
Principal Consultant
JBS&G Australia Pty Ltd

Attachments:

(1) Limitations
(2) Figure
(3) Laboratory Results
(4) Photolog

Attachment 1 – Limitations

This report has been prepared for use by the client who has commissioned the works in accordance with the project brief only, and has been based in part on information obtained from the client and other parties. The report has been prepared specifically for the client for the purposes of the commission, and no warranties, express or implied, are offered to any third parties and no liability will be accepted for use or interpretation of this report by any third party.

The advice herein relates only to this project and all results conclusions and recommendations made should be reviewed by a competent person with experience in environmental investigations, before being used for any other purpose. This report should not be amended in any way without prior approval by JBS&G, or reproduced other than in full including all attachments as originally provided to the client by JBS&G.

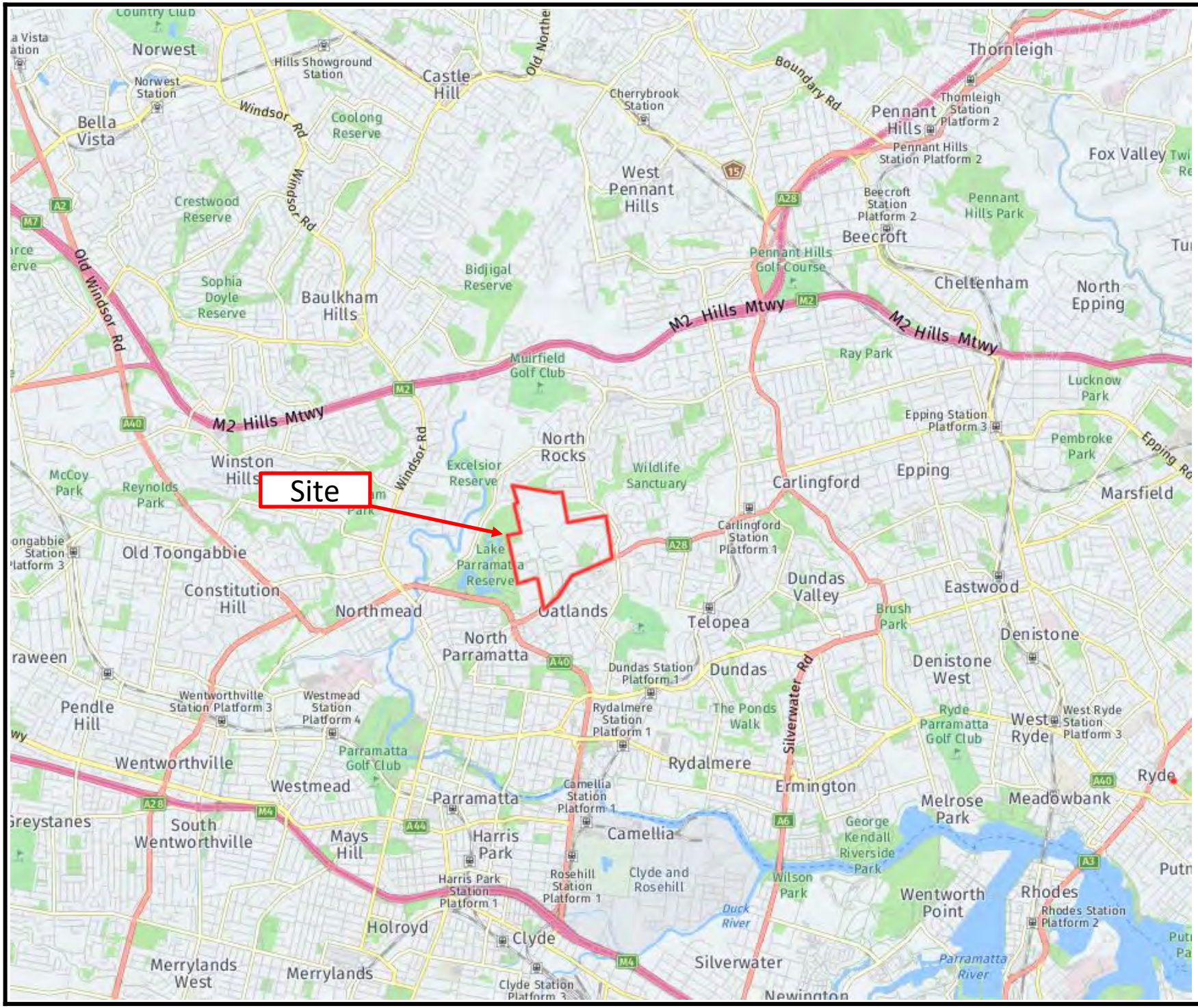
Sampling and chemical analysis of environmental media is based on appropriate guidance documents made and approved by the relevant regulatory authorities. Conclusions arising from the review and assessment of environmental data are based on the sampling and analysis considered appropriate based on the regulatory requirements or agreed scope of work.

Limited sampling and laboratory analyses were undertaken as part of the investigations undertaken, as described herein. Conditions between sampling locations and media may vary, and this should be considered when extrapolating between sampling points. Chemical analytes are based on the information detailed in the site history. Further chemicals or categories of chemicals may exist at the site, which were not identified in the site history and which may not be expected at the site.

Changes to the conditions may occur subsequent to the investigations described herein, through natural processes or through the intentional or accidental addition of contaminants. The conclusions and recommendations reached in this report are based on the information obtained at the time of the investigations.

This report does not provide a complete assessment of the environmental status of the site, and it is limited to the scope defined herein. Should information become available regarding conditions at the site including previously unknown sources of contamination, JBS&G reserves the right to review the report in the context of the additional information.

Attachment 2 – Figures



Legend:

- Approximate Site Boundary

JBS&G

Job No: 66596	
Client: TSA Management	
Version: L02 - Rev 0	Date: 20/03/2024
Drawn By: RS	Checked By: MS

The Kings School

87-129 Pennant Hills Road
North Parramatta, NSW

SITE LOCATION

FIGURE 1

Legend:

- Approximate Site Boundary
- Approximate Structure Outline
- Zoomed in area

JBS&G

Job No: 66596	
Client: TSA Management	
Version: L02 - Rev 0	Date: 20/03/2024
Drawn By: RS	Checked By: MS

The Kings School

87-129 Pennant Hills Road
North Parramatta, NSW

SITE LAYOUT

FIGURE 2

Legend:

- Approximate Site Boundary
- Approximate Extent of Ground Surface ACM Material
- Surface Soil Sample Location

JBS&G

Job No: 66596

Client: TSA Management

Version: L02 - Rev 0	Date: 20/03/2024
Drawn By: RS	Checked By: MS

The Kings School

87-129 Pennant Hills Road
North Parramatta, NSW

GROUND SURFACE ASBESTOS IMPACTED AREA & SURFACE SOIL SAMPLE LOCOATIONS

FIGURE 3

Legend:

- Approximate Site Boundary
- Approximate Extent of Friable Asbestos Impacted Fill Materials
- Waste Classification Sample Locations
- Hand Excavation Locations

JBS&G

Job No: 66596

Client: TSA Management

Version: L02 - Rev 0	Date: 20/03/2024
Drawn By: RS	Checked By: MS

The Kings School

87-129 Pennant Hills Road
North Parramatta, NSW

INTRUSIVE INVESTIGATIONS AND WASTE CLASSIFICATION AREA

FIGURE 4

Attachment 3 – Laboratory Results

21764

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 66069	LABORATORY BATCH NO.:
PROJECT NAME: Parramatta	SAMPLERS: Aaron S
DATE NEEDED BY: 24hr TAT	QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) msamuel@jbsg.com.au; (3) AARON@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
S01	Soil	27/2/24		2 x plastic			+	
S02	1	1		1			+	
S03							+	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE: 27/2/24	CONSIGNMENT NOTE NO.	NAME: Brenan	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 27/2/24 1.22pm	COOLER TEMP 22.0 deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

1072622

eurofins | Environment Testing

www.eurofins.com.au EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

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+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	- Michael Samuel
Project name:	PARRAMATTA
Project ID:	66596
Turnaround time:	1 Day
Date/Time received	Feb 27, 2024 1:22 PM
Eurofins reference	1072622

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	Sample Temperature of chilled sample on the batch as recorded by Eurofins Sample Receipt : 23 degrees Celsius.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
X	Split sample sent to requested external lab.
X	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Andrew Black on phone : (+61) 2 9900 8490 or by email: AndrewBlack@eurofins.com

Results will be delivered electronically via email to - Michael Samuel - msamuel@jbsg.com.au.

Certificate of Analysis

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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.

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention:	- Michael Samuel
Report	1072622-AID-V2
Project Name	PARRAMATTA
Project ID	66596
Received Date	Feb 27, 2024
Date Reported	Feb 29, 2024

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	PARRAMATTA
Project ID	66596
Date Sampled	Feb 27, 2024
Report	1072622-AID-V2

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
S01	24-Fe0066479	Feb 27, 2024	Approximate Sample 610g Sample consisted of: Brown fine-grained clayey soil, brick, plant residue, cement and rocks	AF: Chrysotile asbestos detected in fibre cement material and in the form of loose fibre bundles. Approximate raw weight of AF = 0.10g* Estimated asbestos content in AF = 0.031g* Total estimated asbestos concentration in AF = 0.0042% w/w* Organic fibre detected. No trace asbestos detected.
S02	24-Fe0066480	Feb 27, 2024	Approximate Sample 610g Sample consisted of: Brown fine-grained clayey soil, cement, wood chips, organic debris and rocks	ACM: Chrysotile asbestos detected in fibre cement material. Approximate raw weight of ACM = 0.31g Total estimated asbestos content in ACM = 0.031g* Total estimated asbestos concentration in ACM = 0.0051% w/w* No asbestos detected at the reporting limit of 0.01% w/w.* Organic fibre detected. No trace asbestos detected.
S03	24-Fe0066481	Feb 27, 2024	Approximate Sample 1023g Sample consisted of: Brown coarse-grained soil, cement, plant residue, organic debris and rocks	FA: Chrysotile asbestos detected in weathered fibre plaster cement material. Approximate raw weight of FA = 1.8g Estimated asbestos content in FA = 0.37g* Total estimated asbestos concentration in FA = 0.036% w/w* 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	Feb 27, 2024	Indefinite

eurofins

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

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

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Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: PARRAMATTA
Project ID: 66596

Order No.:
Report #: 1072622
Phone: 02 8245 0300
Fax:

Received: Feb 27, 2024 1:22 PM
Due: Feb 28, 2024
Priority: 1 Day
Contact Name: - Michael Samuel

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	S01	Feb 27, 2024		Soil	S24-Fe0066479	X
2	S02	Feb 27, 2024		Soil	S24-Fe0066480	X
3	S03	Feb 27, 2024		Soil	S24-Fe0066481	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 the colour **blue** indicates data provided by customer that may have an impact on the results.
5. This report replaces any interim results previously issued.

Holding Times

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

Units

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

Calculations

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

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

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

Terms

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

Comments

V2- new version to amend project number from 66069 to 66596 as per client request on 29/2/24 via email.

Sample Integrity

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

Asbestos Counter/Identifier:

Chamath JHM Annakkage	Senior Analyst-Asbestos

Authorised by:

Sayeed Abu	Senior Analyst-Asbestos

Glenn Jackson
Managing Director

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.

Attachment 4 – Photographs

Photo 1 – Extent of impacted material facing north

Photo 2 – Approximately 0.2m of asbestos impacted fill layer.

Photo 3 – Assumed asbestos containing debris in a weathered condition identified during hand excavation.

Photo 4 – Exclusion zone and geofabric layer observed to the southern portion of the west grandstand.

JBS&G (66596– 159,296)
L04 (Asbestos Clearance - Tennis Court - TKS) Rev 0

23 April 2024

The King's School
C/- Malcolm Taylor
TSA Managament Pty Ltd
Via email: malcolm.taylor@tsamgt.com

L04: Asbestos Clearance Certificate – Tennis Court Area, The Kings School 87-129 Pennant Pennant Hills Road, North Parramatta NSW

Dear Malcolm,

1. Introduction and Background

JBS&G Australia Pty Ltd (JBS&G) was engaged by The King's School (TKS, the Client), care of TSA Management Pty Ltd (TSA), to provide asbestos supervision and clearance services associated with friable asbestos removal works within the Tennis Court West Grandstand located at The Kings School, 87-129 Pennant Hills Road, North Parramatta NSW (the site).

A hazardous building material survey (HBMS) completed by JBS&G[1] for the proposed construction of a new STEAM Building (Science, Technology, Engineering, Arts and Mathematics), identified non-friable asbestos materials identified within the surface soil of the Tennis Court West Grandstand. A Summary of works letter completed by JBS&G[2] documented further investigations into the identified hazards and determined that the surface and near surface soils were impacted with friable asbestos. Recommendations were made for the removal and appropriate off site disposal of the identified friable asbestos impacted soils which was completed by Auswide Operations Pty Ltd, a Class A asbestos removal contractor and subsidiary of Mann Group Pty Ltd, under the supervision of JBS&G.

The information described herein documents the completed asbestos removal works and the results of the clearance inspection following the removal of friable asbestos impacted soils associated with the Tennis Court West Grandstand at the site .

The site location and site layout are shown in **Figure 1** and **Figure 2** (**Attachment 2**), respectively**.** The specific asbestos clearance area and verification sample locations are shown in **Figure 3** (**Attachment 2**).

Report Limitations are included as **Attachment 1**. Photographs are included as **Attachment 3.**

[1] *The Council of the Kings School, Hazardous Building Materials Survey, The Kings School, 87-129 Pennant Hills Road, Parramatta NSW*. JBS&G Australia Pty Ltd, issued 16 August 2023, 61452/154,048 (JBS&G 2023)

[2] *L02: Summary of Works – Tennis Court Area Additional Subsurface Investigations, The Kings School, 87-129 Pennant Hills Road, North Parramatta NSW*. JBS&G Australia Pty Ltd, issued 20 March 2024, 66596/158,177 (JBS&G 2024)

2. Site Details

Site Details	
Client	The King's School, care of TSA Management Pty Ltd
Contact Person & Phone Site Contact & Phone	Malcolm Taylor (TSA) – 0400 951 961 Peter West (TKS) – 0418 445 416
Location	The Tennis Court West Grandstand The King's School, 87-129 Pennant Hills Road, North Parramatta, NSW 2151
Defined Clearance Area	Friable asbestos impacted surface soils identified at the Tennis Court West Grandstand and adjacent garden bed. Refer to description below and **Figures 3 (Attachment 2)**.
Description of Asbestos Clearance Area	Resultant excavation surfaces associated with the removal of friable asbestos impacted soils identified at the west grandstand of the tennis court, comprising an area of approximately 400m^2 to an approximate depth of 0.2m below ground surface. (refer to **Attachment 2 – Figure 3**).

3. Asbestos Removal Details

Asbestos Remediation Works	
Date/s of asbestos removal works	Wednesday 17, Thursday 18 and Monday 22 April 2024
Licensed Asbestos Removal Contractor	Auswide Operations Pty Ltd
Licence No.	Class A: 212715
Licensed Asbestos Removal Supervisor	Chun Veng Chuor – 0423 940 024
Asbestos Removal Control Plan	ARCP (MANN 2024a[3])
Safe Work Method Statement	SWMS (JBS&G 2024[4]) SWMS (MANN 2024b[5])
SafeWork NSW Friable Asbestos Removal Notification	Issue No. 943R-00406208-01
Removal Methods	The following methods were applied during the friable asbestos impacted soil removal: • Setup of an asbestos removal exclusion area was established with "caution asbestos dust hazard" tape. With the adjacent tennis court being closed for all access. • Access to the asbestos removal area was via a three-stage decontamination unit. • Asbestos impacted soils were with a 14tonne excavator which sat outside the asbestos removal work area on the adjacent bitumen road. • Excavated asbestos impacted soils were loaded directly into 10 wheeler trucks, 200um black plastic lined skip bins or an 8 tonne truck that was also 200um black plastic lined. Asbestos removal works were overseen by JBS&G and were observed to be undertaken in general accordance with industry best practice and compliant with SafeWork NSW Codes of Practice, *How to Safely Remove*

[3] *Asbestos Removal Control Plan, The Kings School North Parramatta,* Dated 12 April 2024, (MANN 2024a).
[4] *Safe Work Method Statement, Remediation Supervision, Air Monitoring and Verification Sampling - The Kings School Parramatta*. Dated 16 April 2024 (JBS&G 2024)
[5] *Kings Asbestos Removal SWMS*. Dated 12 April 2024, SWMS #: 005 Rev.0 (MANN 2024b).

Asbestos Remediation Works	
	Asbestos (2022) and *How to Manage and Control Asbestos in the Workplace* (2022). Controls measures implemented included exclusion zones, containment, use of asbestos removal personal protective and respiratory equipment, appropriate cleanup methods, personal, equipment and waste decontamination systems and procedures.
Date of Clearance Inspection	Initial clearance inspection – 13 April 2024 Subsequent clearance inspection – 22 April 2024
JBS&G Licenced Asbestos Assessor (LAA)	Robert Sharpsmith (LAA 001343)
Exclusions	The clearance does not apply to any inaccessible areas or surfaces that could not be readily inspected, the sub-surface within the defined clearance area or any areas outside the defined clearance area boundaries. Refer **Limitations**, **Attachment 1**.

4. Asbestos Removal Controls

Details/Action	Yes/No	Comments
Was the asbestos removal work area adequately isolated and contained during the works?	Yes	Barricading and warning signage was placed at perimeters and entry points.
Was an adequate decontamination area established for the works?	Yes	A three stage personal decontamination unit was incorporated to the work area.
Was adequate personal protective equipment (PPE) available?	Yes	Half face P2 silicon respirators, Type 5 disposable coveralls, gloves and gum boots were used by removal personnel when within the asbestos removal work area.
Was water supply and equipment for dust suppression adequate?	Yes	Garden hoses were utilised for dust suppression.
Was asbestos fibre air monitoring undertaken?	Yes	Asbestos fibre air monitoring was undertaken by JBS&G for the duration of the asbestos removal works. Monitors were positioned around the removal boundaries. Air monitoring was completed in accordance with the *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres* [NOHSC: 3003(2005)], with NATA certification applying to all collection, handling and analytical procedures.
Were the results of air monitoring deemed to be acceptable?	Yes	All daily air monitoring results during asbestos removal works were reported satisfactory and conform with the minimum action level of less than 0.01 fibres /mL for control monitoring as outlined in: • Work, Health and Safety (2017) Regulation; and • Safe Work Australia (2022) Code of Practice – *How to Safely Remove Asbestos.* Refer Air Monitoring Report AMR005, AMR006 and AMR008 **(Attachment 5**)
Were asbestos removal works completed in accordance with prepared documentation, relevant regulations and codes of practice?	Yes	Asbestos removal works were overseen by JBS&G and were observed to be completed to a high industry standard.

5. Asbestos Clearance Inspection

Visual Clearance Outcome/Action	Yes/No	Comments
Were any areas not able to be cleared or inspected?	No	All areas were adequately accessible for inspection.
Was Asbestos Clearance Air Monitoring completed?	Yes	Asbestos clearance air monitoring was conducted at several locations within the work area (1) at the completion of asbestos removal works (13/04/24), and (2) following the subsequent removal of asbestos impacted soils (22/04/24). The results of clearance air monitoring conducted were also reported as satisfactory with all results reported as <0.01 fibres/mL. Refer Air monitoring reports AMR007 & AMR009 (**Attachment 5**).
Were soil verification samples collected?	Yes	A total of ten (10) soil verification samples were collected from the resultant excavation surfaces. Six samples were collected from the base of the excavation (TC-VB01 to 06) and four samples were collected from the walls of the excavation (TC-VW01 to V04) following the completion of asbestos removal works. Refer to **Attachment 2 – Figure 3** sample locations.
Was asbestos detected in any of the verification samples?	No	Asbestos was detected within the initial soil verification sample TC-VB03, resulting in additional excavation across the area represented by this sample (refer **Figure 3**). Following the completion of the additional asbestos removal works, additional soil verification samples (TC-VB03-A & TC-VB03-B) were collected from this area which were confirmed to be free of asbestos. All other initial soil verification samples collected during the initial clearance inspection were reported to be free of asbestos. Refer to NATA accredited Laboratory Reports as **Attachment 4**.
Following the clearance inspection was any visible asbestos debris or residues observed?	No	Initial Clearance Inspection (13 April 2024) – No visible asbestos debris or residues observed. Subsequent Clearance Inspection (22 April 2024) – No visible asbestos debris or residues observed. Refer to **Photographs** in **Attachment** 3.
Can the cleared area be re-occupied	Yes	The asbestos clearance area as defined in **Section 2** and shown in **Figure 3** is deemed to be suitable for normal re-occupation.
Is additional asbestos management required?	No	

6. Conclusions

Based on the information presented herein, and the **Limitations** in **Attachment 1**, the following conclusions are made:

- On completion of the asbestos removal works, verification soil samples were collected of resultant excavation walls and base surfaces within the designated removal area to be analysed for asbestos. The results of all verification samples (with the exception of TC-VB03) were reported as *'No asbestos or trace asbestos detected'*. The subsequent additional asbestos removal works associated with the failed soil verification sample TC-VB03 was completed and the two further verification samples (TC-VB03-A and TC-VB03-B) were collected which were reported as *'No asbestos or trace asbestos detected'*.

- No visible asbestos was observed within the subject clearance area during the initial clearance inspection or the subsequent clearance inspection following the additional asbestos removal works associated with the failed initial soil verification sample TC-VB03.
- The results of control asbestos air monitoring conducted for the duration of the asbestos removal works were satisfactory.
- The results of the clearance air monitoring conducted at the completion of the initial asbestos removal works and subsequent asbestos removal works were satisfactory.

On this basis, it is considered that the works have been satisfactorily completed for the clearance area described in **Section 2.** The asbestos removal area associated with the Tennis Court West Grandstand is considered suitable to be reoccupied under non-asbestos controlled conditions.

Should you require clarification, please contact the undersigned on 02 8245 0300 or by email rsharpsmith@jbsg.com.au.

Yours sincerely:

Robert Sharpsmith
Environmental Consultant
Licensed Asbestos Assessor (LAA 001343)
JBS&G Australia Pty Ltd

Reviewed/Approved by:

Michael Samuel
Operations Manager – Hazardous Materials
Licensed Asbestos Assessor (LAA 000157)
JBS&G Australia Pty Ltd

Attachments:

(1) Limitations
(2) Figures
(3) Photographic Log
(4) Laboratory Documentation
(5) Air Monitoring Reports

Attachment 1 – Limitations

This report has been prepared for use by the client who has commissioned the works in accordance with the project brief only, and has been based in part on information obtained from the client and other parties. The report has been prepared specifically for the client for the purposes of the commission, and no warranties, express or implied, are offered to any third parties and no liability will be accepted for use or interpretation of this report by any third party.

The advice herein relates only to this project and all results conclusions and recommendations made should be reviewed by a competent person with experience in environmental investigations, before being used for any other purpose. This report should not be amended in any way without prior approval by JBS&G, or reproduced other than in full including all attachments as originally provided to the client by JBS&G.

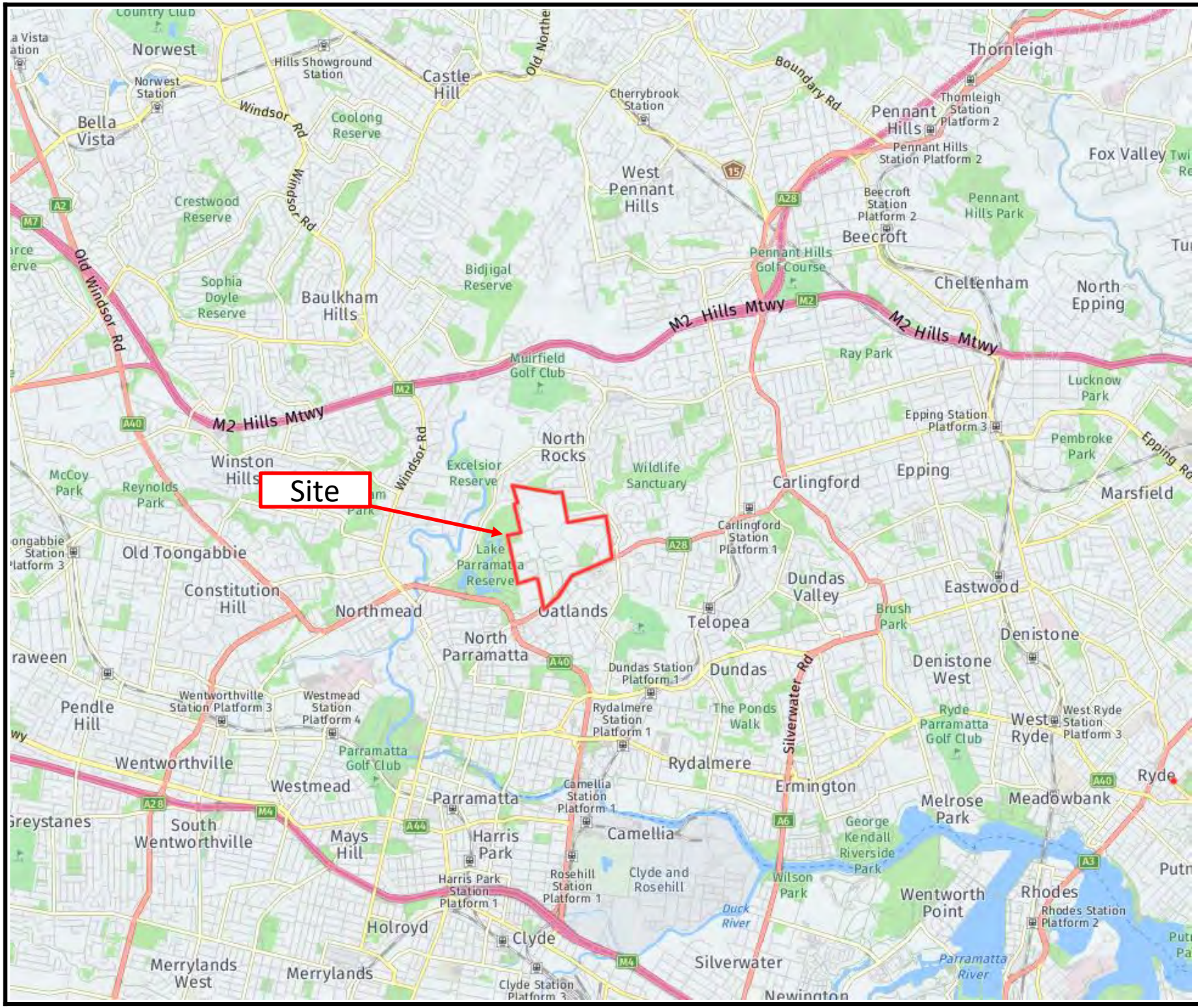
Sampling and chemical analysis of environmental media is based on appropriate guidance documents made and approved by the relevant regulatory authorities. Conclusions arising from the review and assessment of environmental data are based on the sampling and analysis considered appropriate based on the regulatory requirements or agreed scope of work.

Limited sampling and laboratory analyses were undertaken as part of the investigations undertaken, as described herein. Conditions between sampling locations and media may vary, and this should be considered when extrapolating between sampling points. Chemical analytes are based on the information detailed in the site history. Further chemicals or categories of chemicals may exist at the site, which were not identified in the site history and which may not be expected at the site.

Changes to the conditions may occur subsequent to the investigations described herein, through natural processes or through the intentional or accidental addition of contaminants. The conclusions and recommendations reached in this report are based on the information obtained at the time of the investigations.

This report does not provide a complete assessment of the environmental status of the site, and it is limited to the scope defined herein. Should information become available regarding conditions at the site including previously unknown sources of contamination, JBS&G reserves the right to review the report in the context of the additional information.

Attachment 2 – Figures



Legend:

- Approximate Site Boundary

JBS&G

Job No: 66596	
Client: TSA Management	
Version: L04 - Rev 0	Date: 24/04/2024
Drawn By: RS	Checked By: MS

The Kings School

87-129 Pennant Hills Road
North Parramatta, NSW

SITE LOCATION

FIGURE 1

Legend:

- Approximate Site Boundary
- Approximate Tennis Court Area

JBS&G

Job No: 66596

Client: TSA Management

Version: L04 - Rev 0	Date: 24/04/2024
Drawn By: RS	Checked By: MS

The Kings School

87-129 Pennant Hills Road
North Parramatta, NSW

SITE LAYOUT

FIGURE 2

Legend:

- Approximate Site Boundary
- West Grandstand Asbestos Removal Area
- Verification Base Sample (TC-VB##)
- Verification Wall Sample (TC-VW##)
- Subsequent Asbestos Removal Area
- Subsequent Verification Samples (TC-VB03-#)

JBS&G

Job No: 66596

Client: TSA Management

Version: L04 - Rev 0	Date: 24/04/2024
Drawn By: RS	Checked By: MS

The Kings School

87-129 Pennant Hills Road North Parramatta, NSW

ASBESTOS REMOVAL AREA & SOIL VERIFICATION SAMPLE LOCATIONS

FIGURE 3

Attachment 3 – Photographs

Photo 1: Overview of the Tennis Court West Grandstand asbestos removal area facing south

Photo 2: Overview of the Tennis Court West Grandstand asbestos removal area facing north

Photo 3: Excavation of the friable asbestos impacted material with dust suppression

Photo 4: Set up of load out of contaminated material, geofabric placed on road to stop cross contamination

Photo 5: Loading of ten-wheeler truck over geofabric

Photo 6: Hand excavation of impacted materials from areas the excavator could not access

© JBS&G

Source:

Rev	Description	Drn.	Date
0	Original Issue	RS	24/05/2024

Appendix B: Photographs

Client: TSA Management

Project: Tennis Court West Grandstand - The Kings School

Job No: 66596 File Name: Rev 0 App B - Photo Log

Photo 7: Skip bin lined with 200um black plastic

Photo 8: Decontamination of excavator bucket over the lined skip bin

Photo 9: Overview of tennis court west grandstand friable asbestos removal at completion facing south

Photo 10: Overview of tennis court west grandstand friable asbestos removal at completion facing north

Photo 11: Identification of failed verification sample location

Photo 12: Mechanical and hand excavation of the failed verification sample location

© JBS&G

Source:

Rev	Description	Drn.	Date
0	Original Issue	RS	24/05/2024

JBS&G

Appendix B: Photographs

Client: TSA Management

Project: Tennis Court West Grandstand - The Kings School

Job No: 66596 File Name: Rev 0 App B - Photo Log

Photo 13: Failed verification removal via excavator into a 200um black plastic lined 8 tonne truck

Photo 14: Decontamination of excavator bucket over the lined truck

Photo 15: Overview of excavation of failed sample location facing north

Photo 16: Overview of excavation of failed sample location facing south east

Photo 17: Overview of final asbestos removal area setup

Photo 18: Overview of final excavation area

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Source:

Rev	Description	Drn.	Date
0	Original Issue	RS	24/05/2024

JBS&G

Appendix B: Photographs

Client: TSA Management

Project: Tennis Court West Grandstand - The Kings School

Job No: 66596 File Name: Rev 0 App B - Photo Log

Attachment 4 – Laboratory Verification Sample Results

Certificate of Analysis

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.

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention:	Robert Sharpsmith
Report	1089088-AID
Project Name	NORTH PARRAMATTA
Project ID	662596
Received Date	Apr 18, 2024
Date Reported	Apr 19, 2024

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 NORTH PARRAMATTA
Project ID 662596
Date Sampled Apr 18, 2024
Report 1089088-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
TC-VB01	24-Ap0048839	Apr 18, 2024	Approximate Sample 533g Sample consisted of: Brown fine-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TC-VB02	24-Ap0048840	Apr 18, 2024	Approximate Sample 566g Sample consisted of: Brown fine-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TC-VB03	24-Ap0048841	Apr 18, 2024	Approximate Sample 582g Sample consisted of: Brown fine-grained clayey sandy soil and rocks	FA: Chrysotile asbestos detected in weathered fibre cement material. Approximate raw weight of FA = 0.030g Estimated asbestos content in FA = 0.024g* Total estimated asbestos concentration in FA = 0.0041% w/w* Organic fibre detected. No trace asbestos detected.
TC-VB04	24-Ap0048842	Apr 18, 2024	Approximate Sample 505g Sample consisted of: Brown fine-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TC-VB05	24-Ap0048843	Apr 18, 2024	Approximate Sample 621g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TC-VB06	24-Ap0048844	Apr 18, 2024	Approximate Sample 807g Sample consisted of: Brown fine-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TC_VW01	24-Ap0048845	Apr 18, 2024	Approximate Sample 701g Sample consisted of: Brown fine-grained clayey sandy soil, plant matter and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
TC_VW02	24-Ap0048846	Apr 18, 2024	Approximate Sample 741g Sample consisted of: Brown fine-grained clayey sandy soil, cement, brick and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TC_VW03	24-Ap0048847	Apr 18, 2024	Approximate Sample 852g Sample consisted of: Brown fine-grained sandy soil, bitumen like material and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TC_VW04	24-Ap0048848	Apr 18, 2024	Approximate Sample 789g Sample consisted of: Brown fine-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* 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	Apr 18, 2024	Indefinite

eurofins

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email: EnviroSales@eurofins.com

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

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

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Penrose,	Mount Wellington,	Rolleston,	Gate Pa,
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+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: NORTH PARRAMATTA
Project ID: 662596

Order No.:
Report #: 1089088
Phone: 02 8245 0300
Fax:

Received: Apr 18, 2024 6:20 AM
Due: Apr 19, 2024
Priority: Overnight
Contact Name: Robert Sharpsmith

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	TC-VB01	Apr 18, 2024		Soil	S24-Ap0048839	X
2	TC-VB02	Apr 18, 2024		Soil	S24-Ap0048840	X
3	TC-VB03	Apr 18, 2024		Soil	S24-Ap0048841	X
4	TC-VB04	Apr 18, 2024		Soil	S24-Ap0048842	X
5	TC-VB05	Apr 18, 2024		Soil	S24-Ap0048843	X
6	TC-VB06	Apr 18, 2024		Soil	S24-Ap0048844	X
7	TC_VW01	Apr 18, 2024		Soil	S24-Ap0048845	X
8	TC_VW02	Apr 18, 2024		Soil	S24-Ap0048846	X
9	TC_VW03	Apr 18, 2024		Soil	S24-Ap0048847	X
10	TC_VW04	Apr 18, 2024		Soil	S24-Ap0048848	X
Test Counts						10

Internal Quality Control Review and Glossary General

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

Holding Times

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

Units

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

Calculations

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

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

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

Terms

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

Comments

Sample Integrity

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

Asbestos Counter/Identifier:

Sayeed Abu	Senior Analyst-Asbestos

Authorised by:

Laxman Dias	Senior Analyst-Asbestos

Glenn Jackson
Managing Director

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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Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

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+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Robert Sharpsmith
Project name:	NORTH PARRAMATTA
Project ID:	662596
Turnaround time:	Overnight
Date/Time received	Apr 18, 2024 6:20 AM
Eurofins reference	1089088

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	Sample Temperature of chilled sample on the batch as recorded by Eurofins Sample Receipt : 21.1 degrees Celsius.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
N/A	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
N/A	Sample containers for volatile analysis received with zero headspace.
X	Split sample sent to requested external lab.
X	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Andrew Black on phone : (+61) 2 9900 8490 or by email: AndrewBlack@eurofins.com

Results will be delivered electronically via email to Robert Sharpsmith - RSharpsmith@jbsg.com.au.

Chain of Custody

1089088

JBS&G

PROJECT NO.: 66596
PROJECT NAME: North Parramatta
DATE NEEDED BY: Overnight
PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) R.Sharpsmith@jbsg.com.au; (3) asamuel@jbsg.com.au
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: Robert Sharpsmith.
QC LEVEL: NEPM (2013)

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
TC-VB01	soil	18/04/24					X	
VB02							X	
VB03							X	
VB04							X	
VB05							X	
VB06							X	
VW01							X	
VW02							X	
VW03							X	
VW04							X	

RELINQUISHED BY:
NAME: Robert Sharpsmith DATE: 18/04/24
OF: JBS&G
NAME: DATE:
OF:

METHOD OF SHIPMENT:
CONSIGNMENT NOTE NO.
TRANSPORT CO.
CONSIGNMENT NOTE NO.
TRANSPORT CO

RECEIVED BY:
NAME: Amin Qurashi
DATE: 18/4 6:20
OF:
NAME: DATE:
OF:

FOR RECEIVING LAB USE ONLY:
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP 21.1 deg C
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

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Certificate of Analysis

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.

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention:	Robert Sharpsmith
Report	1089980-AID
Project Name	NORTH PARRAMATTA
Project ID	66596
Received Date	Apr 22, 2024
Date Reported	Apr 23, 2024

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 NORTH PARRAMATTA
Project ID 66596
Date Sampled Apr 22, 2024
Report 1089980-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
TC-VB03-A	24-Ap0056411	Apr 22, 2024	Approximate Sample 646g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TC-VB03-B	24-Ap0056412	Apr 22, 2024	Approximate Sample 476g Sample consisted of: Red-brown coarse-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* 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	Apr 22, 2024	Indefinite

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: NORTH PARRAMATTA
Project ID: 66596

Order No.:
Report #: 1089980
Phone: 02 8245 0300
Fax:

Received: Apr 22, 2024 7:40 PM
Due: Apr 23, 2024
Priority: Overnight
Contact Name: Robert Sharpsmith

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	TC-VB03-A	Apr 22, 2024		Soil	S24-Ap0056411	X
2	TC-VB03-B	Apr 22, 2024		Soil	S24-Ap0056412	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 the colour **blue** indicates data provided by customer that may have an impact on the results.
5. This report replaces any interim results previously issued.

Holding Times

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

Units

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

Calculations

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

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

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

Terms

%asbestos	Estimated percentage of asbestos in a given matrix may be derived from knowledge or experience of the material, informed by HSG264 *Appendix 2*, else assumed to be 15% in accordance with WA DOH *Appendix 2* (**P_A**). This estimate is not NATA-accredited.
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FA	Fibrous Asbestos. Asbestos containing material that is wholly or in part friable, including materials with higher asbestos content with a propensity to become friable with handling, and any material that was previously non-friable and in a severely degraded condition. For the purposes of the NEPM and WA DOH, FA generally corresponds to material larger than 7 mm x 7 mm, although FA may be more difficult to visibly distinguish and may be assessed as AF.
Fibre Count	Total of all fibres (whether asbestos or not) meeting the counting criteria set out in the NOHSC:3003
Fibre ID	Fibre Identification. Unequivocal identification of asbestos fibres according to AS 4964-2004. Includes Chrysotile, Amosite (Grunerite) or Crocidolite asbestos.
Friable	Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory’s remit to assess degree of friability.
HSG248	UK HSE HSG248, *Asbestos: The Analysts Guide*, 2nd Edition (2021).
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PCM	Phase Contrast Microscopy. As used for Fibre Counting according to the MFM.
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SRA	Sample Receipt Advice.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres (particularly asbestos) in a given sample matrix.
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WA DOH	Reference document for the NEPM. Government of Western Australia, *Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia* (updated 2021), including Appendix Four: *Laboratory analysis*
Weighted Average	Combined average %w/w asbestos content of all asbestos-containing finds in the given aliquot or total soil sample (**$\%_{WA}$**).

Comments

24-Ap0056412: Sample received was less than the nominal 500mL as recommended in Section 4.10 of the NEPM Schedule B1 - Guideline on Investigation Levels for Soil and Groundwater.

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	N/A
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Asbestos Counter/Identifier:

Sayeed Abu	Senior Analyst-Asbestos

Authorised by:

Laxman Dias	Senior Analyst-Asbestos

Glenn Jackson
Managing Director

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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Contact name:	Robert Sharpsmith
Project name:	NORTH PARRAMATTA
Project ID:	66596
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Eurofins reference	1089980

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
N/A	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
N/A	Sample containers for volatile analysis received with zero headspace.
X	Split sample sent to requested external lab.
X	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Samples received by the laboratory after 5.30pm are deemed to have been received the following working day.

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Andrew Black on phone : (+61) 2 9900 8490 or by email: AndrewBlack@eurofins.com

Results will be delivered electronically via email to Robert Sharpsmith - RSharpsmith@jbsg.com.au.

Global Leader - Results you can trust

Chain of Custody

1088980

JBS&G

PROJECT NO.: 66546
PROJECT NAME: North Parramatta
DATE NEEDED BY: Overnight

LABORATORY BATCH NO.:
SAMPLERS: Robert Shepherd-Smith

QC LEVEL: NEPM (2013)

PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) RShepherd-Smith@jbsg.com.au; (3) SLumsden@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
TC-VB03-A	soil	22/04/24		Bag			X	
TC-VB03-B	↓	↓		↓			X	

RELINQUISHED BY:
NAME: Robert Shepherd-Smith DATE: 22/04/24
OF: JBS&G

METHOD OF SHIPMENT:
CONSIGNMENT NOTE NO.
TRANSPORT CO.

RECEIVED BY:
NAME:
DATE: 22/04/24 7:00 pm
OF:

FOR RECEIVING LAB USE ONLY:
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP 23.7 deg C

NAME: DATE:
OF:

CONSIGNMENT NOTE NO.
TRANSPORT CO

NAME: DATE:
OF:

COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

Controlled Copy (June 2015)
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Attachment 5 – Asbestos Air Monitoring Reports

JBS&G 66596 | 159,148

AMR005 Airborne Asbestos Fibre Monitoring Report 2024.04.17 (Rev 0)

17 April 2024

The Kings School
c/- Malcom Taylor
TSA Management Pty Ltd
Via email: Malcom.taylor@tsamgt.com

AMR005: Airborne Asbestos Fibre Monitoring Report
The Kings School, 87 - 192 Pennant Hills Road, North Parramatta, NSW

Dear Malcom,

Please find as **Attachment 1**, the airborne asbestos fibre monitoring results for works associated with the friable asbestos impacted soil removal works located adjacent the tennis courts at The Kings School, located at 87-129 Pennant Hills Road, North Parramatta NSW (the site) on **Wednesday 17 April 2024**.

All air monitoring was completed in accordance with the Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003(2005)], with NATA certification applying to all sample collection, handling and analytical procedures.

All reported results were satisfactory and conform with the minimum action level of <0.01 fibres /mL for control monitoring as outlined in:

- Work, Health and Safety (2017) Regulation; and
- SafeWork NSW (2022) Code of Practice – How to Safely Remove Asbestos

---

Should you require clarification, please contact the undersigned on 02 8245 0300 or by email rsharpsmith@jbsg.com.au

Yours sincerely:

Robert Sharpsmith
Environmental Consultant
SafeWork NSW Licenced Asbestos Assessor (LAA1353)
JBS&G Australia Pty Ltd

©JBS&G Australia Pty Ltd | ABN 62 100 220 479

Attachment 1 – Asbestos Air Monitoring Results

©JBS&G Australia Pty Ltd

Certificate of Analysis

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

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:	Robert Sharpsmith
Report	1088478-AFC
Project Name	NORTH PARRAMATTA
Project ID	66596
Received Date	Apr 17, 2024
Date Reported	Apr 17, 2024

METHODOLOGY:

Asbestos Sampling	Sampling as per the National Occupational Health & Safety Commission – Guidance Note on The Membrane Filter Method For Estimating Airborne Asbestos Fibres 2nd Edition [NOHSC:3003(2005)] and the NATA Specific Accreditation Criteria, ISO/IEC 17025 Application Document Life Sciences – Annex, Asbestos sampling and testing, Issued: March 2022.
Pump Calibration	Air sampling pump performance has been assessed in accordance with Australian Institute of Occupational Hygiene (AIOH) Technical Paper Air Sampling Pumps: Equipment Calibration Requirements. Pump flow rate measurement equipment (e.g. Field Rotameter) has been calibrated in accordance with AIOH Technical Paper Flow Measurement Equipment: Calibration Requirements.
Asbestos Counting	Fibre counting is conducted in accordance with the National Occupational Health & Safety Commission Guidance Note on the Membrane Filter Method For Estimating Airborne Asbestos Fibres 2nd Edition , [NOHSC:3003(2005)] (MFM) and supplementary work instruction in-house LTM-ASB-8010. Unless specifically noted, analysis is undertaken by approved analysts at the base facility. Fibre counts (Fibres/fields) are covered by the facility's NATA scope of accreditation. The requirements of the NATA Specific Accreditation Criteria, ISO/IEC 17025 Application Document Life Sciences – Annex, Asbestos sampling and testing, Issued: March 2022 are realised.

Project Name NORTH PARRAMATTA
Project ID 66596
Date Sampled Apr 17, 2024
Report 1088478-AFC

Eurofins Sample No.	Client Sample ID	Pump ID	Location	Start (time)	End (time)	Start Flow Rate (L/min)	End Flow Rate (L/min)	Result (Fibres/Fields)	Result (Fibres/mL)
24-Ap0043801	di471889	AC242	NORTH OF REMOVAL DECON CLEAN EXIT	7:55	14:52	1.5	1.5	0/100	< 0.01
24-Ap0043802	di471721	AC230	NE OF REMOVAL	7:56	14:53	1.5	1.5	0/100	< 0.01
24-Ap0043803	di471795	AC231	SE OF REMOVAL	7:58	14:58	1.5	1.5	0/100	< 0.01
24-Ap0043804	di471772	AC220	SW OF REMOVAL	7:59	15:00	1.5	1.5	0/100	< 0.01
24-Ap0043805	di471729	AC238	NW OF REMOVAL	8:01	15:02	1.5	1.5	0/100	< 0.01
24-Ap0043806	di471824	--	BLANK	--	--	--	--	0/100	--

Sample History

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

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

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8010	Sydney	Apr 17, 2024	Indefinite

eurofins

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

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

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

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

Eurofins ProMicro Pty Ltd
ABN: 47 009 120 549

Perth ProMicro
46-48 Banksia Road
Welshpool
WA 6106
+61 8 6253 4444
NATA# 2561
Site# 2554

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland	Auckland (Focus)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise,	43 Detroit Drive	1277 Cameron Road,
Penrose,	Mount Wellington,	Rolleston,	Gate Pa,
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: NORTH PARRAMATTA
Project ID: 66596

Order No.:
Report #: 1088478
Phone: 02 8245 0300
Fax:

Received: Apr 17, 2024 3:26 PM
Due: Apr 17, 2024
Priority: Same day
Contact Name: Robert Sharpsmith

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos Fibre Count & Concentration
Sydney Laboratory - NATA # 1261 Site # 18217						X
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	di471889	Apr 17, 2024	7:55AM	Air	S24-Ap0043801	X
2	di471721	Apr 17, 2024	7:56AM	Air	S24-Ap0043802	X
3	di471795	Apr 17, 2024	7:58AM	Air	S24-Ap0043803	X
4	di471772	Apr 17, 2024	7:59AM	Air	S24-Ap0043804	X
5	di471729	Apr 17, 2024	8:01AM	Air	S24-Ap0043805	X
6	di471824	Apr 17, 2024		Air	S24-Ap0043806	X
Test Counts						6

Internal Quality Control Review and Glossary General

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

Holding Times

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

Units

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

Calculations

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

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

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

Terms

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

Comments

Volume Measurement : ROBERT SHARPSMITH, JBS & G Australia (NSW) P/L, has been trained by Eurofins and they conducted the sampling in accordance with the National Occupational Health & Safety Commission - Guidance Note on The Membrane Filter Method For Estimating Airborne Asbestos Fibres 2nd Edition [NOHSC:3003(2005)]methodology. Sampling pumps used by JBS & G Australia (NSW) P/L were calibrated by Eurofins Environment Testing and therefore volume measurements contained in this report are traceable back to Eurofins Environment Testing. Eurofins Environment Testing are responsible for all data contained in this report.

Sample Integrity

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

Asbestos Counter/Identifier:

Md Mozibur Rahman	Senior Analyst-Asbestos

Authorised by:

Sayeed Abu	Senior Analyst-Asbestos

Glenn Jackson
Managing Director

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.

JBS&G 66596 | 159,186

AMR006 Airborne Asbestos Fibre Monitoring Report 2024.04.18 (Rev 0)

19 April 2024

The Kings School
c/- Malcom Taylor
TSA Management Pty Ltd
Via email: Malcom.taylor@tsamgt.com

AMR006: Airborne Asbestos Fibre Monitoring Report
The Kings School, 87 - 192 Pennant Hills Road, North Parramatta, NSW

Dear Malcom,

Please find as **Attachment 1**, the airborne asbestos fibre monitoring results for works associated with the friable asbestos impacted soil removal works adjacent the tennis courts at The Kings School, located at 87-129 Pennant Hills Road, North Parramatta NSW (the site) on **Thursday 18 April 2024**.

All air monitoring was completed in accordance with the Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003(2005)], with NATA certification applying to all sample collection, handling and analytical procedures.

All reported results were satisfactory and conform with the minimum action level of <0.01 fibres /mL for control monitoring as outlined in:

- Work, Health and Safety (2017) Regulation; and
- SafeWork NSW (2022) Code of Practice – How to Safely Remove Asbestos

---

Should you require clarification, please contact the undersigned on 02 8245 0300 or by email rsharpsmith@jbsg.com.au

Yours sincerely:

Robert Sharpsmith
Environmental Consultant
SafeWork NSW Licenced Asbestos Assessor (LAA001343)
JBS&G Australia Pty Ltd

©JBS&G Australia Pty Ltd | ABN 62 100 220 479

Attachment 1 – Asbestos Air Monitoring Results

©JBS&G Australia Pty Ltd

Certificate of Analysis

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.

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention:	Robert Sharpsmith
Report	1089087-AFC
Project Name	NORTH PARRAMATTA
Project ID	66596
Received Date	Apr 18, 2024
Date Reported	Apr 18, 2024

METHODOLOGY:

Asbestos Sampling	Sampling as per the National Occupational Health & Safety Commission – Guidance Note on The Membrane Filter Method For Estimating Airborne Asbestos Fibres 2nd Edition [NOHSC:3003(2005)] and the NATA Specific Accreditation Criteria, ISO/IEC 17025 Application Document Life Sciences – Annex, Asbestos sampling and testing, Issued: March 2022.
Pump Calibration	Air sampling pump performance has been assessed in accordance with Australian Institute of Occupational Hygiene (AIOH) Technical Paper Air Sampling Pumps: Equipment Calibration Requirements. Pump flow rate measurement equipment (e.g. Field Rotameter) has been calibrated in accordance with AIOH Technical Paper Flow Measurement Equipment: Calibration Requirements.
Asbestos Counting	Fibre counting is conducted in accordance with the National Occupational Health & Safety Commission Guidance Note on the Membrane Filter Method For Estimating Airborne Asbestos Fibres 2nd Edition , [NOHSC:3003(2005)] (MFM) and supplementary work instruction in-house LTM-ASB-8010. Unless specifically noted, analysis is undertaken by approved analysts at the base facility. Fibre counts (Fibres/fields) are covered by the facility's NATA scope of accreditation. The requirements of the NATA Specific Accreditation Criteria, ISO/IEC 17025 Application Document Life Sciences – Annex, Asbestos sampling and testing, Issued: March 2022 are realised.

Project Name NORTH PARRAMATTA
Project ID 66596
Date Sampled Apr 18, 2024
Report 1089087-AFC

Eurofins Sample No.	Client Sample ID	Pump ID	Location	Start (time)	End (time)	Start Flow Rate (L/min)	End Flow Rate (L/min)	Result (Fibres/Fields)	Result (Fibres/mL)
24-Ap0048831	DI471906	AC242	NORTH OF REMOVAL, CLEAN EXIT DECON	6:55	15:05	1.5	1.5	0/100	< 0.01
24-Ap0048832	DI471763	AC230	NE OF REMOVAL	6:56	15:06	1.5	1.5	0/100	< 0.01
24-Ap0048833	DI471863	AC231	SE OF REMOVAL	6:57	15:07	1.5	1.5	0/100	< 0.01
24-Ap0048834	DI471856	AC220	SW OF REMOVAL	6:58	15:08	1.5	1.5	0/100	< 0.01
24-Ap0048835	DI471840	AC238	NW OF REMOVAL	6:59	15:09	1.5	1.5	0/100	< 0.01
24-Ap0048836	DI471822	--	BLANK	--	--	--	--	0/100	--

Sample History

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

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

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8010	Sydney	Apr 18, 2024	Indefinite

eurofins

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

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

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

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

Eurofins ProMicro Pty Ltd
ABN: 47 009 120 549

Perth ProMicro
46-48 Banksia Road
Welshpool
WA 6106
+61 8 6253 4444
NATA# 2561
Site# 2554

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland	Auckland (Focus)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise,	43 Detroit Drive	1277 Cameron Road,
Penrose,	Mount Wellington,	Rolleston,	Gate Pa,
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: NORTH PARRAMATTA
Project ID: 66596

Order No.:
Report #: 1089087
Phone: 02 8245 0300
Fax:

Received: Apr 18, 2024 6:20 PM
Due: Apr 18, 2024
Priority: Same day
Contact Name: Robert Sharpsmith

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos Fibre Count & Concentration
Sydney Laboratory - NATA # 1261 Site # 18217						X
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	DI471906	Apr 18, 2024	3:05PM	Air	S24-Ap0048831	X
2	DI471763	Apr 18, 2024	3:06PM	Air	S24-Ap0048832	X
3	DI471863	Apr 18, 2024	3:07PM	Air	S24-Ap0048833	X
4	DI471856	Apr 18, 2024	3:08PM	Air	S24-Ap0048834	X
5	DI471840	Apr 18, 2024	3:09PM	Air	S24-Ap0048835	X
6	DI471822	Apr 18, 2024		Air	S24-Ap0048836	X
Test Counts						6

Internal Quality Control Review and Glossary General

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

Holding Times

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

Units

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

Calculations

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

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

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

Terms

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

Comments

Volume Measurement : Robert Sharpsmith, JBS & G Australia (NSW) P/L, has been trained by Eurofins and they conducted the sampling in accordance with the National Occupational Health & Safety Commission - Guidance Note on The Membrane Filter Method For Estimating Airborne Asbestos Fibres 2nd Edition [NOHSC:3003(2005)]methodology. Sampling pumps used by JBS & G Australia (NSW) P/L were calibrated by Eurofins Environment Testing and therefore volume measurements contained in this report are traceable back to Eurofins Environment Testing. Eurofins Environment Testing are responsible for all data contained in this report.

Sample Integrity

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

Asbestos Counter/Identifier:

Bennel Jiri	Senior Analyst-Asbestos

Authorised by:

Sayeed Abu	Senior Analyst-Asbestos

Glenn Jackson
Managing Director

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.

JBS&G 66596 | 159,259

AMR007 Airborne Asbestos Fibre Monitoring Report 2024.04.18_Clearance (Rev 0)

23 April 2024

The Kings School
c/- Malcom Taylor
TSA Management Pty Ltd
Via email: Malcom.taylor@tsamgt.com

AMR007: Airborne Asbestos Fibre Monitoring Report
The Kings School, 87 - 192 Pennant Hills Road, North Parramatta, NSW

Dear Malcom,

Please find as **Attachment 1**, the airborne asbestos fibre monitoring results following the satisfactory completion of friable asbestos impacted soil removal works adjacent the tennis courts at The Kings School, located at 87-129 Pennant Hills Road, North Parramatta NSW (the site) on **Thursday 18 April 2024**.

All air monitoring was completed in accordance with the *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres* [NOHSC: 3003(2005)], with NATA certification applying to all sample collection, handling and analytical procedures.

All reported results were satisfactory with an airborne fibre concentration of <0.01 fibres /mL which conforms with the requirements for clearance monitoring as outlined in:

- Work, Health and Safety (2017) Regulation; and
- SafeWork NSW (2022) Code of Practice – How to Safely Remove Asbestos

---

Should you require clarification, please contact the undersigned on 02 8245 0300 or by email rsharpsmith@jbsg.com.au

Yours sincerely:

Robert Sharpsmith
Environmental Consultant
SafeWork NSW Licenced Asbestos Assessor (LAA001343)
JBS&G Australia Pty Ltd

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Attachment 1 – Asbestos Air Monitoring Results

©JBS&G Australia Pty Ltd

Certificate of Analysis

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

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:	Robert Sharpsmith
Report	1089080-AFC
Project Name	NORTH PARRAMATTA
Project ID	66596
Received Date	Apr 18, 2024
Date Reported	Apr 18, 2024

METHODOLOGY:

Asbestos Sampling	Sampling as per the National Occupational Health & Safety Commission – Guidance Note on The Membrane Filter Method For Estimating Airborne Asbestos Fibres 2nd Edition [NOHSC:3003(2005)] and the NATA Specific Accreditation Criteria, ISO/IEC 17025 Application Document Life Sciences – Annex, Asbestos sampling and testing, Issued: March 2022.
Pump Calibration	Air sampling pump performance has been assessed in accordance with Australian Institute of Occupational Hygiene (AIOH) Technical Paper Air Sampling Pumps: Equipment Calibration Requirements. Pump flow rate measurement equipment (e.g. Field Rotameter) has been calibrated in accordance with AIOH Technical Paper Flow Measurement Equipment: Calibration Requirements.
Asbestos Counting	Fibre counting is conducted in accordance with the National Occupational Health & Safety Commission Guidance Note on the Membrane Filter Method For Estimating Airborne Asbestos Fibres 2nd Edition , [NOHSC:3003(2005)] (MFM) and supplementary work instruction in-house LTM-ASB-8010. Unless specifically noted, analysis is undertaken by approved analysts at the base facility. Fibre counts (Fibres/fields) are covered by the facility's NATA scope of accreditation. The requirements of the NATA Specific Accreditation Criteria, ISO/IEC 17025 Application Document Life Sciences – Annex, Asbestos sampling and testing, Issued: March 2022 are realised.

Project Name NORTH PARRAMATTA
Project ID 66596
Date Sampled Apr 18, 2024
Report 1089080-AFC

Eurofins Sample No.	Client Sample ID	Pump ID	Location	Start (time)	End (time)	Start Flow Rate (L/min)	End Flow Rate (L/min)	Result (Fibres/Fields)	Result (Fibres/mL)
24-Ap0048802	DI471813	AC242	WEST OF REMOVAL	15:32	17:50	4.0	4.0	0/100	< 0.01
24-Ap0048803	DI471766	AC230	NE OF REMOVAL	15:33	17:51	4.0	4.0	0/100	< 0.01
24-Ap0048804	DI471921	AC231	SE OF REMOVAL	15:34	17:52	4.0	4.0	0/100	< 0.01
24-Ap0048805	DI471776	--	BLANK	--	--	--	--	0/100	--

Sample History

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

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

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8010	Sydney	Apr 18, 2024	Indefinite

eurofins

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

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

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

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

Eurofins ProMicro Pty Ltd
ABN: 47 009 120 549

Perth ProMicro
46-48 Banksia Road
Welshpool
WA 6106
+61 8 6253 4444
NATA# 2561
Site# 2554

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland	Auckland (Focus)	Christchurch	Tauranga
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Penrose,	Mount Wellington,	Rolleston,	Gate Pa,
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: NORTH PARRAMATTA
Project ID: 66596

Order No.:
Report #: 1089080
Phone: 02 8245 0300
Fax:

Received: Apr 18, 2024 6:20 PM
Due: Apr 18, 2024
Priority: Same day
Contact Name: Robert Sharpsmith

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos Fibre Count & Concentration
Sydney Laboratory - NATA # 1261 Site # 18217						X
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	DI471813	Apr 18, 2024	3:32PM	Air	S24-Ap0048802	X
2	DI471766	Apr 18, 2024	3:33PM	Air	S24-Ap0048803	X
3	DI471921	Apr 18, 2024	3:34PM	Air	S24-Ap0048804	X
4	DI471776	Apr 18, 2024		Air	S24-Ap0048805	X
Test Counts						4

Internal Quality Control Review and Glossary General

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

Holding Times

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

Units

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

Calculations

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

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

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

Terms

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

Comments

Volume Measurement : ROBERT SHARPSMITH, JBS & G Australia (NSW) P/L, has been trained by Eurofins and they conducted the sampling in accordance with the National Occupational Health & Safety Commission - Guidance Note on The Membrane Filter Method For Estimating Airborne Asbestos Fibres 2nd Edition [NOHSC:3003(2005)]methodology. Sampling pumps used by JBS & G Australia (NSW) P/L were calibrated by Eurofins Environment Testing and therefore volume measurements contained in this report are traceable back to Eurofins Environment Testing. Eurofins Environment Testing are responsible for all data contained in this report.

Sample Integrity

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

Asbestos Counter/Identifier:

Bennel Jiri	Senior Analyst-Asbestos

Authorised by:

Sayeed Abu	Senior Analyst-Asbestos

Glenn Jackson
Managing Director

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.

JBS&G 66596 | 159,255

AMR008 Airborne Asbestos Fibre Monitoring Report 2024.04.22 (Rev 0)

23 April 2024

The Kings School
c/- Malcom Taylor
TSA Management Pty Ltd
Via email: Malcom.taylor@tsamgt.com

AMR008: Airborne Asbestos Fibre Monitoring Report
The Kings School, 87 - 192 Pennant Hills Road, North Parramatta, NSW

Dear Malcom,

Please find as **Attachment 1**, the airborne asbestos fibre monitoring results for works associated with the friable asbestos impacted soil removal works adjacent the tennis courts at The Kings School, located at 87-129 Pennant Hills Road, North Parramatta NSW (the site) on **Monday 22 April 2024**.

All air monitoring was completed in accordance with the Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003(2005)], with NATA certification applying to all sample collection, handling and analytical procedures.

All reported results were satisfactory and conform with the minimum action level of <0.01 fibres /mL for control monitoring as outlined in:

- Work, Health and Safety (2017) Regulation; and
- SafeWork NSW (2022) Code of Practice – How to Safely Remove Asbestos

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Should you require clarification, please contact the undersigned on 02 8245 0300 or by email rsharpsmith@jbsg.com.au

Yours sincerely:

Robert Sharpsmith
Environmental Consultant
SafeWork NSW Licenced Asbestos Assessor (LAA001343)
JBS&G Australia Pty Ltd

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Attachment 1 – Asbestos Air Monitoring Results

©JBS&G Australia Pty Ltd

Certificate of Analysis

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.

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention:	Robert Sharpsmith
Report	1089978-AFC
Project Name	NORTH PARRAMATTA
Project ID	66596
Received Date	Apr 22, 2024
Date Reported	Apr 22, 2024

METHODOLOGY:

Asbestos Sampling	Sampling as per the National Occupational Health & Safety Commission – Guidance Note on The Membrane Filter Method For Estimating Airborne Asbestos Fibres 2nd Edition [NOHSC:3003(2005)] and the NATA Specific Accreditation Criteria, ISO/IEC 17025 Application Document Life Sciences – Annex, Asbestos sampling and testing, Issued: March 2022.
Pump Calibration	Air sampling pump performance has been assessed in accordance with Australian Institute of Occupational Hygiene (AIOH) Technical Paper Air Sampling Pumps: Equipment Calibration Requirements. Pump flow rate measurement equipment (e.g. Field Rotameter) has been calibrated in accordance with AIOH Technical Paper Flow Measurement Equipment: Calibration Requirements.
Asbestos Counting	Fibre counting is conducted in accordance with the National Occupational Health & Safety Commission Guidance Note on the Membrane Filter Method For Estimating Airborne Asbestos Fibres 2nd Edition , [NOHSC:3003(2005)] (MFM) and supplementary work instruction in-house LTM-ASB-8010. Unless specifically noted, analysis is undertaken by approved analysts at the base facility. Fibre counts (Fibres/fields) are covered by the facility's NATA scope of accreditation. The requirements of the NATA Specific Accreditation Criteria, ISO/IEC 17025 Application Document Life Sciences – Annex, Asbestos sampling and testing, Issued: March 2022 are realised.

Project Name NORTH PARRAMATTA
Project ID 66596
Date Sampled Apr 22, 2024
Report 1089978-AFC

Eurofins Sample No.	Client Sample ID	Pump ID	Location	Start (time)	End (time)	Start Flow Rate (L/min)	End Flow Rate (L/min)	Result (Fibres/Fields)	Result (Fibres/mL)
24-Ap0056390	DI471835	AC242	NORTH OF EXCAVATION DECON EXIT	7:02	11:35	3.0	3.0	0/100	< 0.01
24-Ap0056391	DI471880	AC230	NE OF EXCAVATION	7:03	11:36	3.0	3.0	0/100	< 0.01
24-Ap0056392	DI471777	AC231	SE OF EXCAVATION	7:04	11:37	3.0	3.0	0/100	< 0.01
24-Ap0056393	DI471788	AC220	SW OF EXCAVATION	7:05	11:38	3.0	3.0	0/100	< 0.01
24-Ap0056394	DI471819	AC238	NW OF EXCAVATION	7:06	11:39	3.0	3.0	0/100	< 0.01
24-Ap0056395	DI471870	BLANK	BLANK	--	--	--	--	0/100	--

Sample History

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

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

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8010	Sydney	Apr 22, 2024	Indefinite

eurofins

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

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

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

Eurofins ARL Pty Ltd
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Welshpool
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+61 8 6253 4444
NATA# 2377
Site# 2370

Eurofins ProMicro Pty Ltd
ABN: 47 009 120 549

Perth ProMicro
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+61 8 6253 4444
NATA# 2561
Site# 2554

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland	Auckland (Focus)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise,	43 Detroit Drive	1277 Cameron Road,
Penrose,	Mount Wellington,	Rolleston,	Gate Pa,
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: NORTH PARRAMATTA
Project ID: 66596

Order No.:
Report #: 1089978
Phone: 02 8245 0300
Fax:

Received: Apr 22, 2024 2:50 PM
Due: Apr 22, 2024
Priority: Same day
Contact Name: Robert Sharpsmith

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos Fibre Count & Concentration
Sydney Laboratory - NATA # 1261 Site # 18217						X
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	DI471835	Apr 22, 2024	7:02AM	Air	S24-Ap0056390	X
2	DI471880	Apr 22, 2024	7:03AM	Air	S24-Ap0056391	X
3	DI471777	Apr 22, 2024	7:04AM	Air	S24-Ap0056392	X
4	DI471788	Apr 22, 2024	7:05AM	Air	S24-Ap0056393	X
5	DI471819	Apr 22, 2024	7:06AM	Air	S24-Ap0056394	X
6	DI471870	Apr 22, 2024		Air	S24-Ap0056395	X
Test Counts						6

Internal Quality Control Review and Glossary General

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

Holding Times

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

Units

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

Calculations

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

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

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

Terms

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

Comments

Volume Measurement : ROBERT SHARPSMITH, JBS & G Australia (NSW) P/L, has been trained by Eurofins and they conducted the sampling in accordance with the National Occupational Health & Safety Commission - Guidance Note on The Membrane Filter Method For Estimating Airborne Asbestos Fibres 2nd Edition [NOHSC:3003(2005)]methodology. Sampling pumps used by JBS & G Australia (NSW) P/L were calibrated by Eurofins Environment Testing and therefore volume measurements contained in this report are traceable back to Eurofins Environment Testing. Eurofins Environment Testing are responsible for all data contained in this report.

Sample Integrity

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

Asbestos Counter/Identifier:

Md Mozibur Rahman	Senior Analyst-Asbestos

Authorised by:

Sayeed Abu	Senior Analyst-Asbestos

Glenn Jackson
Managing Director

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.

JBS&G 66596 | 159,260

AMR009 Airborne Asbestos Fibre Monitoring Report 2024.04.22_Clearance (Rev 0)

23 April 2024

The Kings School
c/- Malcom Taylor
TSA Management Pty Ltd
Via email: Malcom.taylor@tsamgt.com

AMR009: Airborne Asbestos Fibre Monitoring Report
The Kings School, 87 - 192 Pennant Hills Road, North Parramatta, NSW

Dear Malcom,

Please find as **Attachment 1**, the airborne asbestos fibre monitoring results following the satisfactory completion of friable asbestos impacted soil removal works adjacent the tennis courts at The Kings School, located at 87-129 Pennant Hills Road, North Parramatta NSW (the site) on **Monday 22 April 2024**.

All air monitoring was completed in accordance with the *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres* [NOHSC: 3003(2005)], with NATA certification applying to all sample collection, handling and analytical procedures.

All reported results were satisfactory with an airborne fibre concentration of <0.01 fibres /mL which conforms with the requirements for clearance monitoring as outlined in:

- Work, Health and Safety (2017) Regulation; and
- SafeWork NSW (2022) Code of Practice – How to Safely Remove Asbestos

---

Should you require clarification, please contact the undersigned on 02 8245 0300 or by email rsharpsmith@jbsg.com.au

Yours sincerely:

Robert Sharpsmith
Environmental Consultant
SafeWork NSW Licenced Asbestos Assessor (LAA001343)
JBS&G Australia Pty Ltd

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Attachment 1 – Asbestos Air Monitoring Results

©JBS&G Australia Pty Ltd

Certificate of Analysis

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.

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention:	Robert Sharpsmith
Report	1089974-AFC
Project Name	NORTH PARRAMATTA
Project ID	66596
Received Date	Apr 22, 2024
Date Reported	Apr 22, 2024

METHODOLOGY:

Asbestos Sampling	Sampling as per the National Occupational Health & Safety Commission – Guidance Note on The Membrane Filter Method For Estimating Airborne Asbestos Fibres 2nd Edition [NOHSC:3003(2005)] and the NATA Specific Accreditation Criteria, ISO/IEC 17025 Application Document Life Sciences – Annex, Asbestos sampling and testing, Issued: March 2022.
Pump Calibration	Air sampling pump performance has been assessed in accordance with Australian Institute of Occupational Hygiene (AIOH) Technical Paper Air Sampling Pumps: Equipment Calibration Requirements. Pump flow rate measurement equipment (e.g. Field Rotameter) has been calibrated in accordance with AIOH Technical Paper Flow Measurement Equipment: Calibration Requirements.
Asbestos Counting	Fibre counting is conducted in accordance with the National Occupational Health & Safety Commission Guidance Note on the Membrane Filter Method For Estimating Airborne Asbestos Fibres 2nd Edition , [NOHSC:3003(2005)] (MFM) and supplementary work instruction in-house LTM-ASB-8010. Unless specifically noted, analysis is undertaken by approved analysts at the base facility. Fibre counts (Fibres/fields) are covered by the facility's NATA scope of accreditation. The requirements of the NATA Specific Accreditation Criteria, ISO/IEC 17025 Application Document Life Sciences – Annex, Asbestos sampling and testing, Issued: March 2022 are realised.

Project Name NORTH PARRAMATTA
Project ID 66596
Date Sampled Apr 22, 2024
Report 1089974-AFC

Eurofins Sample No.	Client Sample ID	Pump ID	Location	Start (time)	End (time)	Start Flow Rate (L/min)	End Flow Rate (L/min)	Result (Fibres/Fields)	Result (Fibres/mL)
24-Ap0056350	DI471785	AC230	NE OF REMOVAL	12:05	14:36	4.0	4.0	0/100	< 0.01
24-Ap0056351	DI471817	AC231	SE OF REMOVAL	12:06	14:37	4.0	4.0	0/100	< 0.01
24-Ap0056352	DI471760	AC220	WEST OF REMOVAL	12:07	14:38	4.0	4.0	0/100	< 0.01
24-Ap0056353	DI471867	BLANK	BLANK	--	--	--	--	0/100	--

Sample History

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

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

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8010	Sydney	Apr 22, 2024	Indefinite

eurofins

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

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

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
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NATA# 2377
Site# 2370

Eurofins ProMicro Pty Ltd
ABN: 47 009 120 549

Perth ProMicro
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+61 8 6253 4444
NATA# 2561
Site# 2554

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland	Auckland (Focus)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise,	43 Detroit Drive	1277 Cameron Road,
Penrose,	Mount Wellington,	Rolleston,	Gate Pa,
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: NORTH PARRAMATTA
Project ID: 66596

Order No.:
Report #: 1089974
Phone: 02 8245 0300
Fax:

Received: Apr 22, 2024 2:45 PM
Due: Apr 22, 2024
Priority: Same day
Contact Name: Robert Sharpsmith

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos Fibre Count & Concentration
Sydney Laboratory - NATA # 1261 Site # 18217						X
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	DI471785	Apr 22, 2024	12:05PM	Air	S24-Ap0056350	X
2	DI471817	Apr 22, 2024	12:06PM	Air	S24-Ap0056351	X
3	DI471760	Apr 22, 2024	12:07PM	Air	S24-Ap0056352	X
4	DI471867	Apr 22, 2024		Air	S24-Ap0056353	X
Test Counts						4

Internal Quality Control Review and Glossary General

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

Holding Times

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

Units

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

Calculations

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

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

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

Terms

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

Comments

Volume Measurement : ROBERT SHARPSMITH, JBS & G Australia (NSW) P/L, has been trained by Eurofins and they conducted the sampling in accordance with the National Occupational Health & Safety Commission - Guidance Note on The Membrane Filter Method For Estimating Airborne Asbestos Fibres 2nd Edition [NOHSC:3003(2005)]methodology. Sampling pumps used by JBS & G Australia (NSW) P/L were calibrated by Eurofins Environment Testing and therefore volume measurements contained in this report are traceable back to Eurofins Environment Testing. Eurofins Environment Testing are responsible for all data contained in this report.

Sample Integrity

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

Asbestos Counter/Identifier:

Md Mozibur Rahman	Senior Analyst-Asbestos

Authorised by:

Sayeed Abu	Senior Analyst-Asbestos

Glenn Jackson
Managing Director

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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Document Status

Rev No.	Author	Reviewer	Approved for Issue		
		Name	Name	Signature	Date
A	Robert Sharp	Michael Samuel	Michael Samuel		12/05/2023
0	Robert Sharp	Michael Samuel	Michael Samuel		26/05/2023
1	Robert Sharp	Michael Samuel	Michael Samuel		4/08/2023
2	Robert Sharp	Michael Samuel	Michael Samuel		16/08/2023
3	Robert Sharp	Michael Samuel	Michael Samuel		9/10/2023
4	Robert Sharp	Michael Samuel	Michael Samuel		16/05/2024

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