

Asbestos Register

Blue Mountains City Council maintains asbestos registers ("registers") and asbestos management plans ("plans") relating to each of the buildings owned or occupied by the Council. The registers and plans record information about the existence and location of any known or presumed asbestos containing materials ("ACM") within those buildings.

The Council's governing body has adopted the Council's corporate [/asbestos-registers]Asbestos Policy, which is available on our website.

The registers and plans are in two forms. First, the Council maintains a corporate asbestos register and a corporate asbestos management plan. Second, the Council has prepared individual registers and individual plans for each building that contains or may contain ACM. Hardcopies of those individual registers and plans are held in the building concerned.

Whenever work is carried out on a Council building the hardcopy register and the hardcopy plan are each amended by hand, as required. This action ensures that Council employees or contractors who work from time to time within that building have access to accurate information about the ACM that it contains or may contain.

The electronic versions of each of the corporate plans and registers, and of the plans and registers for individual buildings, are periodically updated. However, the key documents are the hardcopy registers and the hardcopy plans for each building which must be inspected before any work is carried out on that building.

NOTES:

- (1) The Council's electronic registers and plans are valid as dated, and ARE NOT to be relied upon as definitive records and ARE NOT to be used for reference purposes for any construction, demolition, maintenance or any other onsite works. IN ALL CASES, the onsite hardcopy building specific asbestos register and building specific asbestos management plan MUST BE CONSULTED prior to the commencement of physical works on the building concerned. While the electronic versions of the Council's registers and plans provide guidance concerning the presence or possible presence of ACM it is the onsite hardcopy registers and plans which will remain up to date.
- (2) The Council's electronic registers and plans relate to Council owned or managed buildings. The electronic registers and plans do not relate to structures (such as picnic shelters, bus shelters and other freestanding structures). Before any work is carried out on such structures the Council's Hazardous Materials Team ("HMT") MUST BE CONSULTED. The HMT may be contacted at **council@bmcc.nsw.gov.au**. The HMT will provide information concerning any ACM that may be present in the structure concerned.

Further information: Further information on safe asbestos management may be obtained by contacting Councils Hazardous Materials Management Team at **council@bmcc.nsw.gov.au**.



HAZARDOUS MATERIALS REGISTER & MANAGEMENT PLAN SITE: Katoomba Leura Preschool,

34, Lett Street, Katoomba,

NSW, 2780 Job #17329R01



Work Health and Safety Regulation 2017 R427 requires a copy of the asbestos register and management plan to be available and readily accessible to all workers intending to carry out works at the workplace. The intent of this legislation is to minimise accidental disturbance of asbestos based products. If asbestos based products are to be disturbed reference to the asbestos management plan must be consulted first for guidance.

Work Health and Safety Regulation 2017 R428 requires that the management plan must be controlled by a person who is in control of the workplace.						
The Nominated Controller of the As workplace is	bestos Management Plan for this					
Prepared for: Blue Mountains City Council, 2-6, Civic Place, Katoomba,	This hard copy is for the; Managing Agent Property Owner Property On-Site					

Work Health and Safety Regulation 2017 R425 and R429 requires workplaces to have an Asbestos Register and Management Plan, Reviews must be undertaken when changes occur in the Workplace or when asbestos is removed or more asbestos is identified, otherwise a review every 5 years is sufficient. Date of Register: 4th December 2017 Revision Due: 1st December 2022 Version 3.

NSW, 2780



CONTENTS

SECTION 1: HAZARDOUS MATERIALS REGISTER

- 1.1 SCOPE OF REPORT AND DISCUSSION
- 1.2 LIMITATIONS
- 1.3 ASBESTOS MATERIALS REGISTER
- 1.4 CONCLUSIONS

SECTION 2 – HAZARDOUS MATERIALS MANAGEMENT PLAN

- 2.1 MANAGEMENT RESPONSIBILITY
- 2.2 IDENTIFICATION AND SIGNAGE
- 2.3 CONTROLLING THE RISK
- 2.4 SAFE WORK METHODS
- 2.4.1. Drilling of asbestos containing material
- 2.4.2. Sealing, painting, coating and cleaning of asbestos-cement (bonded) products
- 2.4.3. Cleaning leaf litter from gutters of asbestos cement roofs
- 2.4.4. Replace cabling in asbestos cement (bonded) conduits or boxes
- 2.4.5. Working on asbestos containing electrical switchboards
- 2.4.6. Inspection of asbestos friction materials
- 2.4.7 Sampling of asbestos materials
- 2.5 PERMIT TO WORK
- 2.5.1 Asbestos Removal Works
- 2.5.2 Asbestos Disturbance/Maintenance Works
- 2.6 RECORDS OF CHANGES & ACTIVITIES

APPENDIX I: ASBESTOS SAMPLE ANALYSIS RESULTS

APPENDIX II: BACKGROUND AIRBORNE ASBESTOS AIR MONITORING RESULTS

APPENDIX III: LABORATORY SAMPLE ANALYSIS RESULTS LEAD IDENTIFICATION

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HAZARDOUS MATERIALS REGISTER &
MANAGEMENT PLAN
SITE: Katoomba Leura Preschool,
34, Lett Street,
Katoomba,
NSW, 2780
Job #17329R01

Pg.3

1.1 SCOPE OF REPORT

Regional EnviroScience Pty Ltd was requested by Mr. Rick Harris of Blue Mountain City Council to undertake a Hazardous Building Materials Register and to prepare a Hazardous Building Materials Management Plan of the property known as Katoomba Leura Preschool located at 34, Lett Street, Katoomba, NSW, 2780. The purpose of the inspection was to locate and identify hazardous building materials and products within the building in accordance with the *NSW Work Health and Safety Act and Regulation 2017* and other relevant Codes of Practice and Industry Guidance material as presented in the references section of this report.

Sampling of the various suspect materials and subsequent laboratory analysis was required to confirm the presence or absence of hazardous building materials. Details of the results for the samples collected are contained in Appendices I, 2 and 3. Samples taken were considered to be representative where visual inspection indicated materials to be similar in nature and of similar age.

The purpose of this assessment was to identify potentially hazardous building materials, including Asbestos, Synthetic Mineral Fibres (SMF), Lead in Paint, Polychlorinated Biphenyls (PCBs), and Phenols. The identification of SMFs, PCBs and Phenols is by visual assessment only.

Where materials could not be sampled and are of a particular age, typically asbestos, they have been marked as 'assumed asbestos containing material', of note "Bituminous Electrical Backing Boards or Bakelite Fittings".

The hazardous building materials register is presented in tabulated form with each hazardous building material represented in its own discrete table.

Regional
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HAZARDOUS MATERIALS REGISTER &
MANAGEMENT PLAN
SITE: Katoomba Leura Preschool,
34, Lett Street,
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NSW, 2780
Job #17329R01

Pg.4

1.2 LIMITATIONS

The inspection of the building was limited to areas that are outlined in this report, the inspector could not generally access entire ceiling spaces or foundation areas, also areas that could not be readily accessed areas including wall cavities and underground services were not able to be inspected in full. If these areas require major works a detailed inspection, which may include partial demolition for access would be required if major works are scheduled.

- To the extent permitted by law, Regional EnviroScience Pty Ltd will not be responsible in tort, contract or otherwise for any loss or damage, including for any personal injuries or death, or any consequential loss, loss of markets and pure economic loss, suffered by the Customer, whether or not the loss or damage occurs in the course of performance by Regional EnviroScience of this contract or in events which are in the contemplation of Regional EnviroScience and/or the Customer or in events which are foreseeable by Regional EnviroScience and/or the Customer.
- 2.2 To the extent that liability has not been effectively excluded by the proceeding clause, then Regional EnviroScience limits its liability to: -
 - (a) The supply of services again; or
 - (b) The payment of the cost of supplying the services again, at the election of Regional EnviroScience Pty Ltd.



1.3 ASBESTOS MATERIALS REGISTER

The following tabulated summary details the findings of Asbestos Building Materials and Products.

Nearmap Satellite Image of the Premises:





Job #17329R01

The following Risk Action Table is used in each table of this register to assign a risk score that translates into five different actions (A1-A5). The table should assist the person/s responsible for maintaining the Hazardous Building Materials Register with a tool to determine the course of action and develop an action schedule for the hazardous building material that will assist Council in budgeting for remediation / abatement works.

Risk Action Table

Descriptor	Item	REMEDIAL ACTION REQUIREMENTS
A1	Action 1	RESTRICT ACCESS & REMOVE
		As a guide, the material conforms to one, or more, of the following:
		 Friable or poorly bonded to substrate, located in accessible areas;
		 Severely water damaged, or unstable;
		 Further damage or deterioration likely;
		 Asbestos debris and stored asbestos in reasonably accessible areas; and
		 Significant peeling and flaking in lead paint in areas that pose immediate risk to children / resident. Removal considered lead risk work
A2	Action 2	ENCLOSE, ENCAPSULATE OR SEAL BY LICENCED CONTRACTORS - REINSPECT
		PERIODICALLY
		As a guide, the material conforms to one, or more, of the following:
		Damaged material;
		 In reasonably accessible area;
		 Friable material or poorly bonded to substrate, with bonding achievable;
		 Possibility of disturbance through contact;
		 Possibility of deterioration caused by weathering; and
-		Large areas of peeling and flaking
A3	Action 3	REMOVE DURING REFURBISHMENT OR MAINTENANCE. ENCLOSE, ENCAPSULATE OR SEAL BY GENERAL MAINTENANCE CONTRACTORS. REINSPECT PERIODICALLY
		As a guide, the material conforms to one, or more, of the following;
		 Asbestos debris or stored material in rarely accessed areas;
		 Further disturbance or damage unlikely other than during maintenance or service;
		 Asbestos friction materials, gaskets and brake linings; and
		 Small / moderate areas of peeling and flaking lead paint in an area that
		posed low risk. Remedial works suitable by a general maintenance
		contractor
A4	Action 4	NO REMEDIAL ACTION – REINSPECT PERIODICALLY
		As a guide, the material conforms to one, or more, of the following:
		 Firmly bonded to substrate and readily visible for inspection;
		 Inaccessible and fully contained; and
		Stable and damage unlikely
A5	Action 5	NO ACTION REQUIRED – NO HAZARDOUS BUILDING MATERIALS IDENTIFIED



1.4: Asbestos

On the 4th December 2017, an Asbestos Audit was conducted at the Katoomba Leura Preschool and asbestos containing materials were found to be present at the premises. Please refer Appendix I for results of products that were considered and consequently analysed but did not contain asbestos.

ASBES	ASBESTOS MATERIALS REGISTER ASSET: Katoomba Leura Preschool, 34, Lett Street, Katoomba, NSW, 2780			Street,	
DATE OF IDENTIFICATION	IMAGES	SPECIFIC LOCATION OF ASBESTOS/ APPROX M ²	TYPE OF ASBESTOS/ FRIABLE OR NON-FRIABLE	RISK ACTION RATING	CONDITION & ACCESSIBILITY OF ASBESTOS
4th December 2017		External – Brick Veneer Building – North/South/East/West Soffit Lining Bonded Board Approximately 22m² 383	Sample #B17329S01 Chrysotile Asbestos Detected Non-Friable	A4	Good Condition Accessible to Tradespeople Refer to Asbestos Management Plan
4th December 2017		External – All Windows Sealant Mastic Type Substance 425	Sample #B17329S02 No Asbestos Detected	A5	N/A
4th December 2017		External – Northern Veranda Bonded Board Approximately 30m² 384	Sample #B17329S03 Chrysotile Asbestos Detected Non-Friable	A4	Good Condition Accessible to Tradespeople Refer to Asbestos Management Plan



Job #17329R01

ASBES	ASSET: Katoomba Leura Preschool, 34, Lett Street, Katoomba, NSW, 2780				Street,
DATE OF IDENTIFICATION	IMAGES	SPECIFIC LOCATION OF ASBESTOS/ APPROX M ²	TYPE OF ASBESTOS/ FRIABLE OR NON-FRIABLE	RISK ACTION RATING	CONDITION & ACCESSIBILITY OF ASBESTOS
4th December 2017		External – Northern Skillion Extension Soffit Lining Bonded Board Approximately 6m ² 385	Sample #B17329S04 Chrysotile Asbestos Detected Non-Friable	A4	Good Condition Accessible to Tradespeople Refer to Asbestos Management Plan Removed 9/7/19 JMB 19/166816
4th December 2017		External – Southern Entrance Skillion Veranda & Storeroom Soffit Lining Bonded Board Approximately 11m² 426	Sample #B17329S05 Chrysotile Asbestos Detected Non-Friable	A4	Good Condition Accessible to Tradespeople Refer to Asbestos Management Plan Removed 9/7/19 JMB 19/166816
4th December 2017		External –Southern Aspect Infill Panel Covering Access to Sub-Floor Bonded Board 427	Sample #B17329S06 No Asbestos Detected	A5	N/A
4th December 2017		External – Eastern Aspect Electrical Meter & Fuse Board Bituminous Backing Board Infill Bonded Board 1m²	No Sample Taken Assume Asbestos Containing Material Non-Friable 428	A3	Good-Condition Accessible to Tradespeople Refer to Asbestos Management Plan Removed by ART team & Council Electrician 17/7/19



ASBES	TOS MATERIALS REGISTER	ASSET: Katoomba Leur Katoomba, NSW, 2780		Lett S	Street,
DATE OF IDENTIFICATION	IMAGES	SPECIFIC LOCATION OF ASBESTOS/ APPROX M ²	TYPE OF ASBESTOS/ FRIABLE OR NON-FRIABLE	RISK ACTION RATING	CONDITION & ACCESSIBILITY OF ASBESTOS
		External – Northern Skillion Veranda Blue Infill Panels 429	Sample #B17329S07 No Asbestos Detected	A5	N/A
4th December 2017		Internal – Northern Extension Sub-Floor Soffit Lining Bonded Board Approximately 27m² 430	Sample #B17329S08 Chrysotile Asbestos Detected Non-Friable	A4	Good Condition Accessible to Tradespeople Refer to Asbestos Management Plan Removed 9/7/19 JMB 19/166816
4th December 2017		Internal – Southern Entry Foyer Wall Sheets to Bothe Sides of Large Cupboard Bonded Board Approximately 2m²	Sample #B17329S09 Chrysotile Asbestos Detected Non-Friable 431	A4	Good Condition Accessible to Tradespeople Refer to Asbestos Management Plan Removed 9/7/19 JMB 19/166816
4th December 2017		Internal – Washroom Infill Panel Above Tiles Adjacent to Broom Cupboard 432	Sample #B17329S10 No Asbestos Detected	A5	N/A



Job #17329R01

ASBES	TOS MATERIALS REGISTER	ASSET: Katoomba Leur Katoomba, NSW, 2780		Lett 9	Street,
DATE OF IDENTIFICATION	IMAGES	SPECIFIC LOCATION OF ASBESTOS/ APPROX M ²	TYPE OF ASBESTOS/ FRIABLE OR NON-FRIABLE	RISK ACTION RATING	CONDITION & ACCESSIBILITY OF ASBESTOS
4th December 2017		External – Northern Aspect Purple Wall Cladding Bonded Board Approximately 52m² 433	Sample #B17329S11 Chrysotile Asbestos Detected Non-Friable	A3	Good Condition Accessible to Tradespeople Refer to Asbestos Management Plan
4th December 2017	Eaves Lining	External – Northern Aspect Eaves Lining Bonded Board Approximately 10m² 434	Sample #B17329S12 Chrysotile & Crocidolite Asbestos Detected Non-Friable	A3	Good Condition Accessible to Tradespeople Refer to Asbestos Management Plan
4th December 2017	Fibre Cement Board to Top Portions Here	External – Southern Aspect Ramp Infill Panel 435	Sample #B17329S13 No Asbestos Detected	A5	N/A
4th December 2017	Underlay	Internal – Entry Foyer Underlay for Linoleum Floor Covering 436	Sample #B17329S14 No Asbestos Detected	A5	N/A



Job #17329R01

ASBESTOS MATERIALS REGISTER ASSET: Katoomba Leura Preschool, 34, Lett Street, Katoomba, NSW, 2780			Street,		
DATE OF IDENTIFICATION	IMAGES	SPECIFIC LOCATION OF ASBESTOS/ APPROX M ²	TYPE OF ASBESTOS/ FRIABLE OR NON-FRIABLE	RISK ACTION RATING	CONDITION & ACCESSIBILITY OF ASBESTOS
4th December 2017	Top of Linoleum	Internal – Entry Foyer Green Linoleum Floor Covering 437	Sample #B17329S15 No Asbestos Detected	A5	N/A
4th December 2017		Internal – Staff Toilets Fibre Cement Wall Covering 438	Sample #B17329S16 No Asbestos Detected	A5	N/A
4th December 2017		Internal – Children's Toilet Fibre Cement Wall Covering 439	Sample #B17329S17 No Asbestos Detected	A5	N/A
4th December 2017		Internal – Veranda Sub- Floor Fibre Cement Ceiling Approximately 27m ² 440	Sample #B17329S18 Chrysotile & Amosite Asbestos Detected Non-Friable	A3	Good Condition Accessible to Tradespeople Refer to Asbestos Management Plan



Job #17329R01

ASBES	TOS MATERIALS REGISTER	ASSET: Katoomba Leur Katoomba, NSW, 2780		Lett S	Street,
DATE OF IDENTIFICATION	IMAGES	SPECIFIC LOCATION OF ASBESTOS/ APPROX M ²	TYPE OF ASBESTOS/ FRIABLE OR NON-FRIABLE	RISK ACTION RATING	CONDITION & ACCESSIBILITY OF ASBESTOS
4th December 2017		Internal – Main Building Sub-Floor Packers to Brick Piers & Bearers Fibre Cement Variable Quantity Assume Present on All Brick Piers	Sample #B17329S19 Chrysotile Asbestos Detected Non-Friable 441	A3	Fair Condition Accessible to Tradespeople Refer to Asbestos Management Plan
4th December 2017		Internal – Main Building North East Section of Sub-Floor Bonded Board Debris Variable Quantity 442	Sample #B17329S20 Chrysotile Asbestos Detected Non-Friable	A3	Poor Condition Accessible to Tradespeople Refer to Asbestos Management Plan
4th December 2017		Internal – Main Building Sub-Floor Bonded Board Debris Variable Quantity 443	Sample #B17329S21 Chrysotile Asbestos Detected Non-Friable	A3	Good Condition Accessible to Tradespeople Refer to Asbestos Management Plan
4th December 2017		Internal – Small Building Sub-Floor Packers to Brick Piers & Bearers Fibre Cement Variable Quantity Assume Present on All Brick Piers	Sample #B17329S22 Chrysotile Asbestos Detected Non-Friable 444	A3	Good Condition Accessible to Tradespeople Refer to Asbestos Management Plan



ASBES	TOS MATERIALS REGISTER	ASSET: Katoomba Leur Katoomba, NSW, 2780		Lett S	Street,
DATE OF IDENTIFICATION	IMAGES	SPECIFIC LOCATION OF ASBESTOS/ APPROX M ²	TYPE OF ASBESTOS/ FRIABLE OR NON-FRIABLE	RISK ACTION RATING	CONDITION & ACCESSIBILITY OF ASBESTOS
4th December 2017		Internal – Small Building Sub-Floor Ceiling Fibre Cement 445	Sample #B17329S23 No Asbestos Detected	A5	N/A
4th December 2017		External – Northern Aspect Roof Tiled Roof 446	No Asbestos Detected	A5	N/A
4th December 2017		External – Western Aspect Purple Wall Cladding Bonded Board Approximately 25m²	Similar to Sample #B17329S11 Chrysotile Asbestos Detected Non-Friable	A4	Good Condition Accessible to Tradespeople Refer to Asbestos Management Plan
4th December 2017	Eaves Lining Page 1	External – Western Aspect Eaves Lining Bonded Board Approximately 5 m ² 450	Similar to Sample #B17329S12 Chrysotile & Crocidolite Asbestos Detected Non-Friable	A4	Good Condition Accessible to Tradespeople Refer to Asbestos Management Plan



NSW, 2780 Job #17329R01

ASBES	TOS MATERIALS REGISTER	ASSET: Katoomba Leur Katoomba, NSW, 2780	a Preschool, 34,	Lett S	Street,
DATE OF IDENTIFICATION	IMAGES	SPECIFIC LOCATION OF ASBESTOS/ APPROX M ²	TYPE OF ASBESTOS/ FRIABLE OR NON-FRIABLE	RISK ACTION RATING	CONDITION & ACCESSIBILITY OF ASBESTOS
4th December 2017	No Image Available	External – Southern Aspect Purple Wall Cladding Bonded Board Approximately 52 m ² 451	Similar to Sample #B17329S11 Chrysotile Asbestos Detected Non-Friable	A4	Good Condition Accessible to Tradespeople Refer to Asbestos Management Plan
4th December 2017	No Image Available	External – Southern Aspect Eaves Lining Bonded Board Approximately 6m ² 452	Sample #B17329S12 Chrysotile & Crocidolite Asbestos Detected Non-Friable	A4	Good Condition Accessible to Tradespeople Refer to Asbestos Management Plan
4th December 2017		External – Eastern Aspect Purple Wall Cladding Bonded Board Approximately 27m² 453	Similar to Sample #B17329S11 Chrysotile Asbestos Detected Non-Friable	A4	Good Condition Accessible to Tradespeople Refer to Asbestos Management Plan
4 th December 2017		External – Eastern Aspect Eaves Lining Bonded Board Approximately 4m ² 454	Similar to Sample #B17329S12 Chrysotile & Crocidolite Asbestos Detected Non-Friable	A4	Good Condition Accessible to Tradespeople Refer to Asbestos Management Plan



ASBES	TOS MATERIALS REGISTER	ASSET: Katoomba Leur Katoomba, NSW, 2780		Lett S	Street,
DATE OF IDENTIFICATION	IMAGES	SPECIFIC LOCATION OF ASBESTOS/ APPROX M ²	TYPE OF ASBESTOS/ FRIABLE OR NON-FRIABLE	RISK ACTION RATING	CONDITION & ACCESSIBILITY OF ASBESTOS
4 th December 2017		Internal – Entry Foyer Plasterboard Ceiling / Cornice / Walls, Timber Door & Window Frames / skirting, Linoleum Floor Covering 455	No Asbestos Detected	A5	N/A
4 th December 2017		Internal – Main Area Plasterboard Ceiling / Cornice / Walls, Decorative Cork Tile Wall, Timber Door & Window Frames / Aluminium Window Frames, Skirting, Linoleum Floor Covering	No Asbestos Detected 456	A5	N/A
4 th December 2017		Internal – Ceiling Cavity Timber Trusses, Silver Insulation Foil 457	No Asbestos Detected	A5	N/A
4 th December 2017		Internal – Kitchen Plasterboard Ceiling / Cornice / Walls, Timber Window Frames / Architrave, Linoleum Floor Covering 458	No Asbestos Detected	A5	N/A



Job #17329R01

ASBES	TOS MATERIALS REGISTER	ASSET: Katoomba Leur Katoomba, NSW, 2780		Lett S	Street,
DATE OF IDENTIFICATION	IMAGES	SPECIFIC LOCATION OF ASBESTOS/ APPROX M ²	TYPE OF ASBESTOS/ FRIABLE OR NON-FRIABLE	RISK ACTION RATING	CONDITION & ACCESSIBILITY OF ASBESTOS
4 th December 2017	000	Internal – Laundry Plasterboard Ceiling, Fibre Cement Walls, Ceramic Tile Floor 459	No Asbestos Detected	A5	N/A
4 th December 2017		Internal – Staff Toilet Plasterboard Ceiling, Fibre Cement Walls, Ceramic Tile Floor 460	No Asbestos Detected	A5	N/A
4 th December 2017		Internal – Children's Toilet Store Plasterboard Infill Above Store Room 461	No Asbestos Detected	A5	A5
4 th December 2017		Internal – Children's Toilet Plasterboard Ceiling, Fibre Cement Walls, Aluminium Window Frames, Timber Architrave, Ceramic Tile Wall / Floor / Cubicle Partitions	No Asbestos Detected 462	A5	N/A



ASBES	TOS MATERIALS REGISTER	ASSET: Katoomba Leur Katoomba, NSW, 2780		Lett S	Street,
DATE OF IDENTIFICATION	IMAGES	SPECIFIC LOCATION OF ASBESTOS/ APPROX M ²	TYPE OF ASBESTOS/ FRIABLE OR NON-FRIABLE	RISK ACTION RATING	CONDITION & ACCESSIBILITY OF ASBESTOS
13 th February 2018		North Wall adjacent to the Entry of the Bilby's Room. Plasterboard Wall. 2836	No Asbestos Detected	A5	N/A
4th December 2017		Internal – Ground Floor Store Room Plasterboard Ceiling, Brick & Render Walls, Concrete Floor 463	No Asbestos Detected	A5	N/A
4th December 2017		Internal – Ground Floor Store Room North East Corner Brick, Weatherboard, Concrete Floor 464	No Asbestos Detected	A5	N/A
4th December 2017		Internal – Ground Floor Store Room 2 Plasterboard Ceiling / Walls, Brick & Render Wall to North, Brick & Weatherboard Wall to West, Concrete Floor 465	No Asbestos Detected	A5	N/A



Job #17329R01

ASBES	TOS MATERIALS REGISTER	ASSET: Katoomba Leura Preschool, 34, Lett Street, Katoomba, NSW, 2780			
DATE OF IDENTIFICATION	IMAGES	SPECIFIC LOCATION OF ASBESTOS/ APPROX M ²	TYPE OF ASBESTOS/ FRIABLE OR NON-FRIABLE	RISK ACTION RATING	CONDITION & ACCESSIBILITY OF ASBESTOS
4th December 2017		External – Access Point to Area Below Stairs Locked Area Therefore No Access was Obtained 466	Unknown if Hazardous Building Materials Present. Treat as Present Until Inspected	A4	Unknown
4th December 2017		Internal – Sub-Floor Beneath Stairs Brick Walls, Fibre Cement Debris Note: Locked Area Image Taken Through Mesh	No Asbestos Detected	A5	N/A



SITE: Katoomba Leura Preschool, 34, Lett Street,

34, Lett Street, Katoomba, NSW, 2780 Job #17329R01



1.3.2: Lead-Based Paints

Four (4) paint samples were obtained in accordance with the AS 4361.2:2017 Guide to Hazardous Paint Management, Part 2: Lead paint in residential, public and commercial buildings and AS 4482.1-2005 Guide to the Investigation and Sampling of Sites with Potentially Lead Contaminated Soil. The table below depicts where the sample was obtained, together with the sample results. The guide above defines a lead based paint as a paint film or component coat of paint system containing lead or lead compounds, in which the lead content is more than 0.1% by weight of the dry film as determined by laboratory testing. Laboratory results are located in Appendix III.

LEAD BASED PA	AINTS REGISTER	ASSET: Katoomba Katoomba, NSW,		escho	ol, 34, Lett Street,
DATE & SAMPLE REFERENCE	IMAGE	LOCATION	LABORA TORY RESULT (% w/w Lead in Paint)	RISK ACTION RATING	CONCLUSION
4th December 2017 Envirolab Reference# 181765-1 (17329-S1)		Purple Paint External Surfaces	<0.05% w/w	A5	Paint not classified as lead based as less than or equal to 0.1% w/w
4th December 2017 Envirolab Reference# 181765-2 (17329-S2)		Green Paint to External Surfaces	<0.05% w/w	A5	Paint not classified as lead based as less than or equal to 0.1% w/w



Katoomba, NSW, 2780 Job #17329R01

LEAD BASED PAINTS REGISTER ASSET: Katoomba Leura Preschool, 34, Lett Katoomba, NSW, 2780			ol, 34, Lett Street,		
4th December 2017 Sample No 04 (17329-S3)		Cream Paint to Internal Surfaces	1.5% w/w	3	Paint is classified as lead based as greater than 0.1% w/w
4th December 2017 Sample No 04 (17329-4)		Blue Paint to Sub- Floor Store	<0.05% w/w	N/A	Paint not classified as lead based as less than or equal to 0.1% w/w

One (1) sample of cream coloured paint obtained from the interior timber second fixings of the door and window frames, architraves and skirting boards of the property has recorded a result of 1.5% w/w for lead in paint which is classified as Lead Paint therefore remedial action is required. However good practice would dictate that existing paint, even though is below the recognised standard, should not be sanded and that dust minimisation techniques should be adopted, when undertaking renovation / repair works particularly in heritage period buildings. It would be good practice to wear a P1 dust mask during any paint removal even though it does not contain lead but small particles of paint can still be inhaled or ingested.

Job #17329R01

1.3.2: Synthetic Mineral Fibres (SMFs)

SMF materials are identified visually, no SMF building materials were observed to be present in the buildings.

SYNTH	HETIC MINERAL FIBRE REGISTER ASSET: Katoomba Leura Preschool, 34, Lett Street, Katoomba, NSW, 2780				
DATE OF INSPECTION	IMAGES	SPECIFIC LOCATION OF SMF	SAMPLE RESULTS	RISK ACTION RATING	CONDITION & ACCESSIBILITY OF PRODUCT
4th December 2017	No Image Required	No Synthetic Mineral Fibre Products Were Identified	Visual Inspection	N/A	N/A

1.3.4: Polychlorinated Biphenyls (PCBs)

Polychlorinated biphenyls (PCB) are identified by visual observation in fluorescent light fittings with guidance from the Australian and New Zealand Environment and Conservation Council (ANZECC) Checklists. No PCB containing capacitors or resistors were identified in any of the fluorescent light fitting inspected for the buildings. Newer type of LED, fluorescent and pendant lights were representative across all buildings inspected.

POLYCHLORINATED BIPHENYLS REGISTER		ASSET: Katoomba Leura Preschool, 34, Lett Street, Katoomba, NSW,2780			
DATE OF INSPECTIOON	IMAGES	SPECIFIC LOCATION OF PCB	SAMPLE RESULTS	RISK RANKING TABLE	CONDITION & ACCESSIBILITY OF PRODUCT
4th December 2017	AMA INTERNAL MATERIAL STATE OF THE STATE SHARE S	Internal – Kitchen Fluorescent Light Fitting AWA C40-220PW Ballast Resistor	No PCB's Present Visual Observation	A5	N/A

SITE: Katoomba Leura Preschool,

eura Preschool, 34, Lett Street, Katoomba, NSW, 2780 Job #17329R01

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	OLYCHLORINATED BIPHENYLS ASSET: Katoomba Leura Preschool, 34, Lett Street, Katoomba, NSW,2780			tt Street,	
DATE OF INSPECTIOON	IMAGES	SPECIFIC LOCATION OF PCB	SAMPLE RESULTS	RISK RANKING TABLE	CONDITION & ACCESSIBILITY OF PRODUCT
4th December 2017		Internal - Kitchen Typical Fluorescent Light Fitting Found in Most Rooms	No PCB's Present Visual Observation	A5	N/A
4th December 2017		Internal – Children's Toilet Typical Fluorescent & Pendant Lights	No PCB's Present Visual Observation	A5	N/A
4th December 2017		Small Building Store Room Typical Fluorescent Light Fitting	No PCB's Present Visual Observation	A5	N/A



HAZARDOUS MATERIALS REGISTER & MANAGEMENT PLAN

SITE: Katoomba Leura Preschool,

34, Lett Street, Katoomba, NSW, 2780 Job #17329R01

1.3.5: Phenols

Phenols are an early form of plastic formed between Phenol and Formaldehyde and quite often bound together with the use of a fibrous material, they may sometimes even contain asbestos. The main source of Phenols within buildings are Bakelite products such as electrical switches or light fittings. No Phenol building materials were identified in the buildings inspected.

PHENOLS REGISTER ASSET: Katoomba Leura Preschool, 34, Lett Street Katoomba, NSW, 2780		t Street,			
DATE OF INSPECTIOON	IMAGES	SPECIFIC LOCATION OF LEAD-BASED PAINTS	SAMPLE RESULTS	Risk Action Rating	CONDITION & ACCESSIBILITY OF PRODUCT
4th December 2017	No Images Available	No Products Were Identified	Visual Inspection	A 5	N/A

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HAZARDOUS MATERIALS REGISTER & MANAGEMENT PLAN

SITE: Katoomba Leura Preschool, 34, Lett Street,

Katoomba, NSW, 2780 Job #17329R01

Pg.24

1.4 CONCLUSIONS

Asbestos Building Materials were found to be present in the Katoomba Leura Preschool buildings and Lead in Paint was present to the cream timber finishes to interior areas of the main building. No other hazardous building materials were found to be present during the inspection conducted on 4th December 2017.

The following recommendations will assist the asset owner and building occupants to meet the requirements of the *NSW Work Health and Safety Act and Regulation 2017* in the case of unexpected find of hazardous building material/s.

If an unexpected asbestos find eventuates, depending on the type and quantity of the material, it should be scheduled to be removed under controlled conditions utilising a licensed asbestos removal contractor (Class B – Bonded removalist) or (Class A – Friable removalist). It is recommended that a Scope of Works be drawn up prior to engaging an asbestos removalist to ensure that the appropriate legislative requirements are adhered to, these legislative and guidance requirements are detailed below.

Legislation also recommends that it is good occupational hygiene practice to undertake airborne asbestos air monitoring, using a competent laboratory during the asbestos removal and that an independent Occupational Hygienist undertake a visual clearance inspection, coupled with air monitoring and site contamination assessment at the end of the removal process. For guidance on exposure standards and recommended procedures please refer to codes of practice and standards referenced in this report for guidance;

It is recommended that the licensed contractor prepare a safe method of work statement including wet removal methods for the asbestos removal works, utilising Type P1 or P2 half face particulate respirators, appropriate personnel decontamination procedures and appropriate disposal methods, refer to the following legislative codes of practice and standards for guidance;

If the material is to remain in situ, and unlikely to be disturbed it should be noted on the premises' asbestos register. If the asbestos material is removed the register should be updated to reflect this change in the management plan. All the asbestos materials should be managed according to the asbestos management plan.

HAZARDOUS MATERIALS REGISTER & MANAGEMENT PLAN

SITE: Katoomba Leura Preschool,

34, Lett Street, Katoomba, NSW, 2780

Job #17329R01



If additional asbestos based products are identified on-site the asbestos register should be updated to include these products. If products are disturbed airborne asbestos air monitoring coupled with an independent assessment should be undertaken to assess the risk.

Background airborne asbestos monitoring was conducted at the premises with samples taken indicating normal background levels of airborne asbestos fibres (<0.01 fibres/millilitre of air). These results confirm the safe working environment within the area.

The fibres were counted in accordance with the National Occupational Health and Safety Commission's "Asbestos: Code of Practice and Guidance Notes - Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Dust" [NOHSC:3003 (2005)] The air monitoring results can be seen in Appendix II of this report.

Air monitoring results taken only indicate the background levels, if asbestos based products are disturbed or removed additional air monitoring should be undertaken to ensure that these normal background levels are maintained.

The materials identified in this report were in good condition and can be managed effectively according to the Asbestos Management Plan. Provided they remain in this condition and are not disturbed they pose minimal risk if left in situ. If renovation or demolition works are to occur the asbestos based materials which are likely to be disturbed should be removed prior to works commencing.

If asbestos based products are disturbed, the area should be isolated and an independent assessment by an Occupational Hygienist should be undertaken coupled with airborne asbestos air monitoring.

Reported By

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162

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HAZARDOUS MATERIALS REGISTER & MANAGEMENT PLAN SITE: Katoomba Leura Preschool,

34, Lett Street, Katoomba, NSW, 2780 Job #17329R01

Pg.26

SECTION 2 - ASBESTOS MANAGEMENT PLAN

The materials identified in this report were in good or fair condition and can be managed effectively according to the Asbestos Management Plan.

- Provided the ACM remains in good condition and is not disturbed they pose minimal risk if left in situ.
- If the ACM is in fair condition it should be removed under controlled conditions and replaced, during routine maintenance works.
- If the ACM is in poor condition it should be removed under controlled conditions as soon as practicable.
- If renovation or demolition works are to occur the asbestos based materials which are likely to be disturbed should be removed prior to works commencing.

If asbestos based products are disturbed, the area should be isolated and an independent assessment by an Occupational Hygienist should be undertaken coupled with airborne asbestos air monitoring.

2.1 MANAGEMENT RESPONSIBILITY

Work Health and Safety Regulation 2017 R428 R429 requires that the management plan must be controlled by a person who is in control of the workplace. The person is responsible to ensure that the management plan is kept up to date, including documenting asbestos removal works, subsequent damage and if new asbestos products are identified on-site.

If the nominated person is no longer responsible for the Asbestos Register and Management Plan the person must as far as reasonably practicable transfer the ownership and the actual documents to the new nominated person.



2.2 IDENTIFICATION AND SIGNAGE

Work Health and Safety Regulation 2017 R422, R424, R427 and R429 requires that the person with the management control of the workplace to identify asbestos containing materials and the asbestos material that has been identified to date should be labelled and ensured that it complies with the *Australian Standard 1319: Safety Signs for the Occupational Environment*; signage should be similar to the label detailed below.



Signage should also be placed at the entry points to the building/plant similar to the one detailed below



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NSW, 2780 Job #17329R01

Pg.28

2.3 CONTROLLING THE RISK

As all asbestos types are known carcinogens, and it is when the asbestos fibres are released and become airborne that they pose a potentially deadly occupational health hazard. The main route of entry into the body is through inhalation, and they deposit directly into various sections of the respiratory tract depending on their fibre size. The three main diseases associated with asbestos exposure are Asbestosis, Lung Cancer and Mesothelioma.

Therefore, when we are managing asbestos in the workplace we want to minimise potential exposures to asbestos fibres, particularly when they become airborne. Many asbestos containing materials that are in the workplace are in good condition, and if left undisturbed is it unlikely that asbestos fibres will become airborne and the risk is extremely low. However, if the material is in a poor condition, or is likely to be disturbed (i.e. maintenance activities, renovation or demolition works) the asbestos containing materials should be removed.

To reduce to likelihood of asbestos materials being disturbed in the workplace, the asbestos material should be identified (i.e. the Asbestos Register), and managed to minimise the risk of disturbance through signage and administration controls, such as permit to work systems. The management plan should be followed with vigour to ensure exposures do not occur.

2.4 SAFE WORK METHODS

The methods need to be adopted for all asbestos works undertaken on-site, when works are undertaken the management records contained within this report need to appropriately, documented, as evidence. The following methods have been extracted from the *Code of Practice;* How to Manage and Control Asbestos in the Workplace [Safe Work Australia: 2011] under the Creative Commons copyright licence.

Asbestos removal works need to be undertaken by a registered asbestos removalist, who will notify Workcover of works and provide a satisfactory and safe asbestos removal method, prior to works commencing on-site.



2.4.1. Drilling of asbestos containing material

SAFE WORK PRACTICE 1 – DRILLING OF ACM

The drilling of asbestos cement sheeting can release asbestos fibres into the atmosphere, so precautions must be taken to protect the drill operator and other persons from exposure to these fibres. A hand drill is preferred to a battery-powered drill, because the quantity of fibres is drastically reduced if a hand drill is used.

Equipment that may be required prior to starting work (in addition to what is needed for the task)	 A non-powered hand drill or a low-speed battery-powered drill or drilling equipment. Battery-powered drills should be fitted with a local exhaust ventilation (LEV) dust control hood wherever possible. If an LEV dust control hood cannot be attached and other dust control methods such as pastes and gels are unsuitable then shadow vacuuming techniques should be used Disposable cleaning rags A bucket of water, or more as appropriate, and/or a misting spray bottle Duct tape Sealant Spare PPE A thickened substance such as wallpaper paste, shaving cream or hair gel 200 µm plastic sheeting A suitable asbestos waste container (e.g. 200 µm plastic bags or a drum, bin or skip lined with 200 µm plastic sheeting) Warning signs and/or barrier tape An asbestos vacuum cleaner A sturdy paper, foam or thin metal cup, or similar (for work on
PPE	 overhead surfaces only). Protective clothing and RPE (see AS1715, AS 1716). It is likely that a class P1 or P2 half face respirator will be adequate for this task, provided the recommended safe work procedure is followed.
Preparing the asbestos work area	 If the work is to be carried out at a height, appropriate precautions must be taken to prevent falls. Ensure appropriately marked asbestos waste disposal bags are available. Carry out the work with as few people present as possible. Segregate the asbestos work area to ensure unauthorised personnel are restricted from entry (e.g. close door and/ or use warning signs and/or barrier tape at all entry points). The distance for segregation should be determined by a risk assessment. If drilling a roof from outside, segregate the area below. If access is available to the rear of the asbestos cement,



SAFE WORK PRACTICE 1 – DRII	LLING OF ACM
	segregate this area as well as above.
	 If possible, use plastic sheeting, secured with duct tape, to cover any surface within the asbestos work area that could become contaminated. Ensure there is adequate lighting. Avoid working in windy environments where asbestos fibres can be redistributed. If using a bucket of water, do not resoak used rags in the bucket, as this will contaminate the water. Instead, either fold the rag so
	a clean surface is exposed or use another rag.
Drilling vertical surfaces	Tape both the point to be drilled and the exit point, if accessible, with a strong adhesive tape such as duct tape to prevent the edges crumbling.
	• Cover the drill entry and exit points (if accessible) on the asbestos with a generous amount of thickened substance. Drill through the paste.
	 Use damp rags to clean off the paste and debris from the wall and drill bit.
	• Dispose of the rags as asbestos waste as they will contain asbestos dust and fibres.
	Seal the cut edges with sealant.
	If a cable is to be passed through, insert a sleeve to protect the
	inner edge of the hole.
Drilling overhead horizontal surfaces	 Mark the point to be drilled. Drill a hole through the bottom of the cup. Fill or line the inside of the cup with shaving cream, gel or a similar thickened substance.
	Put the drill bit through the hole in the cup so that the cup encloses the drill bit, and make sure the drill bit extends beyond the lip of the cup.
	 Align the drill bit with the marked point. Ensure the cup is firmly held against the surface to be drilled. Drill through the surface.
	Remove the drill bit from the cup, ensuring that the cup remains firmly against the surface.
	 Remove the cup from the surface. Use damp rags to clean off the paste and debris from the drill bit.
	Dispose of the rags as asbestos waste, as they will contain asbestos dust and fibres.
	 Seal the cut edges with sealant. If a cable is to be passed through, insert a sleeve to protect the inner edge of the hole.



SAFE WORK PRACTICE 1 – DRII	LING OF ACM
	Use damp rags to clean the equipment.
Decontaminating the	Carefully roll or fold any plastic sheeting used to cover any
asbestos work area and	surface within the asbestos work area, so as not to spill any dust
equipment	or debris that has been collected.
	 If necessary, use damp rags and/or an asbestos vacuum cleaner to clean any remaining visibly contaminated sections of the asbestos work area. Place debris, used rags, plastic sheeting and other waste in the asbestos waste bags/container.
	 Wet wipe the external surfaces of the asbestos waste bags/ container to remove any adhering dust before they are removed
	from the asbestos work area.
Personal decontamination should be carried out in a designated area	 If disposable coveralls are worn, clean the coveralls while still wearing RPE using a HEPA vacuum, damp rag or fine-water spray. RPE can be cleaned with a wet rag or cloth. While still wearing RPE, remove coveralls, turning them insideout to entrap any remaining contamination and then place them into a labelled asbestos waste bag. Remove RPE. If non-disposable, inspect it to ensure it is free from contamination, clean it with a wet rag and store in a clean container. If disposable, cleaning is not required but RPE should be placed in a labelled asbestos waste bag or waste container. Refer to the Code of Practice: How to Safely Remove Asbestos for more information.
Clearance procedure	Visually inspect the asbestos work area to make sure it has been properly cleaned.
	Clearance air monitoring is not normally required for this task. Discuss of all parts are the start and a start are the start as a start are the start
	Dispose of all waste as asbestos waste.
	Refer to the <i>Code of Practice: How to Safely Remove Asbestos</i> for more information.



2.4.2. Sealing, painting, coating and cleaning of asbestos-cement (bonded) products

SAFE WORK PRACTICE 2 – SEALING, PAINTING, COATING AND CLEANING OF ASBESTOS-CEMENT PRODUCTS

These tasks should only to be carried out on asbestos that are in good condition. For this reason, the ACM should be thoroughly inspected before starting the work. There is a risk to health if the surface of asbestos cement sheeting is disturbed (e.g. from hail storms and cyclones) or if it has deteriorated as a result of aggressive environmental factors such as pollution. If it is so weathered that its surface is cracked or broken, the asbestos cement matrix may be eroded, increasing the likelihood that asbestos fibres will be released. If treatment is considered essential, a method that does not disturb the matrix should be used. Under no circumstances should asbestos cement products be water blasted or dry sanded in preparation for painting, coating or sealing.

Equipment that may be required prior to starting work (in addition to what is needed for the task)	 Disposable cleaning rags A bucket of water, or more as appropriate, and/or a misting spray bottle Sealant Spare PPE A suitable asbestos waste container Warning signs and/or barrier tape.
PPE	 Protective clothing and RPE (see AS1715, AS 1716). It is likely that a class P1 or P2 half face respirator will be adequate for this task, provided the recommended safe work procedure is followed. Where paint is to be applied, appropriate respiratory protection to control the paint vapours/mist must also be considered.



SAFE WORK PRACTICE 2 – SEALING, PAINTING, COATING AND CLEANING OF ASBESTOS-CEMENT PRODUCTS

CEMENT PRODUCTS	
Preparing the asbestos work area	 If work is being carried out at heights, precautions must be taken to prevent falls. Before starting, assess the asbestos cement for damage. Ensure appropriately marked asbestos waste disposal bags are available. Carry out the work with as few people present as possible. Segregate the asbestos work area to ensure unauthorised personnel are restricted from entry (e.g. close door and/ or use warning signs and/or barrier tape at all entry points). The distance for segregation should be determined by a risk assessment. If working at a height, segregate the area below. If possible, use plastic sheeting secured with duct tape to cover any floor surface within the asbestos work area which could become contaminated. This will help to contain any runoff from wet sanding methods. Ensure there is adequate lighting. If using a bucket of water, do not resoak used rags in the bucket, as this will contaminate the water. Instead, either fold the rag so a clean surface is exposed or use another rag. Never use high-pressure water cleaning methods. Never prepare surfaces using dry sanding methods. Where sanding is required, you should consider removing the asbestos and replacing it with a non-asbestos product. Wet sanding methods may be used to prepare the asbestos, provided precautions are taken to ensure all the runoff is captured and filtered, where possible.
Painting and sealing	 Wipe dusty surfaces with a damp cloth. When using a spray brush, never use a high-pressure spray to apply the paint. When using a roller, use it lightly to avoid abrasion or other damage.
Decontaminating the asbestos work area and equipment	 Use damp rags to clean the equipment. If required, use damp rags and/or an asbestos vacuum cleaner to clean the asbestos work area. Place debris, used rags, plastic sheeting and other waste in the asbestos waste bags/container. Wet wipe the external surfaces of the asbestos waste bags/container to remove any adhering dust before they are removed from the asbestos work area.



SAFE WORK PRACTICE 2 - SEALING, PAINTING, COATING AND CLEANING OF ASBESTOS-		
CEMENT PRODUCTS		
Personal decontamination should be carried out in a designated area	 If disposable coveralls are worn, clean the coveralls while still wearing RPE using a HEPA vacuum, damp rag or fine-water spray. RPE can be cleaned with a wet rag or cloth. While still wearing RPE, remove coveralls, turning them insideout to entrap any remaining contamination and then place them into a labelled asbestos waste bag. Remove RPE. If non-disposable, inspect it to ensure it is free from contamination, clean it with a wet rag and store in a clean container. If disposable, cleaning is not required but RPE should be placed in a labelled asbestos waste bag or waste container. Refer to the Code of Practice: How to Safely Remove Asbestos for more information. 	
Clearance procedure	 Visually inspect the asbestos work area to make sure it has been properly cleaned. Clearance air monitoring is not normally required for this task. Dispose of all waste as asbestos waste. 	
	Refer to the <i>Code of Practice: How to Safely Remove Asbestos</i> for more information.	



2.4.3. Cleaning leaf litter from gutters of asbestos cement roofs

SAFE WORK PRACTICE 3 – CLEANING LEAF LITTER FROM GUTTERS OF ASBESTOS CEMENT		
ROOFS		
	A bucket of water, or more as appropriate, and detergent	
Equipment that may be	A watering can or garden spray	
required prior to	A hand trowel or scoop	
starting work (in	Disposable cleaning rags	
addition to what is	A suitable asbestos waste container	
needed for the task)	Warning signs and/or barrier tape	
	An asbestos vacuum cleaner.	
	• Protective clothing and RPE (see AS1715, AS 1716). It is likely that a	
PPE	class P1 or P2 half face respirator will be adequate for this task,	
	provided the recommended safe work procedure is followed.	
	Since the work is to be carried out at a height, appropriate	
Preparing the asbestos	precautions must be taken to prevent the risk of falls.	
work area	Ensure appropriately marked asbestos waste disposal containers are	
	available.	
	Segregate the asbestos work area to ensure unauthorised personnel	
	are restricted from entry (e.g. use warning signs and/ or barrier tape	
	at all entry points). The distance for segregation should be	
	determined by a risk assessment.	
	Segregate the area below.	
	 Avoid working in windy environments where asbestos fibres can be redistributed. 	
	If using a bucket of water, do not resoak used rags in the bucket as	
	this will contaminate the water. Instead, either fold the rag so a clean	
	surface is exposed or use another rag.	
	Disconnect or re-route the downpipes to prevent any entry of	
Gutter cleaning	contaminated water into the waste water system and ensure there is	
	a suitable container to collect contaminated runoff. Contaminated	
	water must be disposed of as asbestos waste.	
	Mix the water and detergent.	
	Using the watering can or garden spray, pour the water and	
	detergent mixture into the gutter but avoid over-wetting as this will	
	create a slurry.	
	Remove the debris using a scoop or trowel. Do not allow debris or	
	slurry to enter the water system.	
	Wet the debris again if dry material is uncovered.	
	Place the removed debris straight into the asbestos waste container.	



Pg.36

	3 – CLEANING LEAF LITTER FROM GUTTERS OF ASBESTOS CEMENT
Personal decontamination should be carried out in a designated area	 Use damp rags to wipe down all equipment used. Use damp rags to wipe down the guttering. Where practicable, and if necessary, use an asbestos vacuum cleaner to vacuum the area below. Place debris, used rags and other waste in the asbestos waste container. Wet wipe the external surfaces of the asbestos waste container to remove any adhering dust before it is removed from the asbestos work area. If disposable coveralls are worn, clean the coveralls while still wearing RPE using a HEPA vacuum, damp rag or fine-water spray. RPE can be cleaned with a wet rag or cloth. While still wearing RPE, remove coveralls, turning them inside-out to entrap any remaining contamination and then place them into a labelled asbestos waste bag. Remove RPE. If non-disposable, inspect it to ensure it is free from contamination, clean it with a wet rag and store in a clean container.
Clearance precedure	If disposable, cleaning is not required but RPE should be placed in a labelled asbestos waste bag or waste container. Refer to the <i>Code of Practice: How to Safely Remove Asbestos</i> for more information. • Visually inspect the asbestos work area to make sure it has been properly cleaned.
Clearance procedure	 Properly cleaned. Clearance air monitoring is not normally required for this task. Dispose of all waste as asbestos waste. Refer to the Code of Practice: How to Safely Remove Asbestos for more information.



MANAGEMENT PLAN SITE: Katoomba Leura Preschool, 34, Lett Street, Katoomba, NSW, 2780 Job #17329R01

HAZARDOUS MATERIALS REGISTER &

2.4.4. Replace cabling in asbestos cement (bonded) conduits or boxes

SAFE WORK PRACTICE	4 – REPLACE CABLING IN ASBESTOS CEMENT CONDUITS OR BOXES
	Disposable cleaning rags
Equipment that may be	 A bucket of water, or more as appropriate, and/or a misting spray
required prior to	bottle
starting work (in	 200 μm thick plastic sheeting
addition to what is	Cable slipping compound
needed for the task)	 Appropriately marked asbestos waste disposal bags
	Spare PPE
	Duct tape
	 Warning signs and/or barrier tape
	An asbestos vacuum cleaner.
PPE	 Protective clothing and RPE (see AS1715, AS 1716). It is likely that a class P1 or P2 half face respirator will be adequate for this task, provided the recommended safe work procedure is followed.
	• If the work will be carried out in a confined space, appropriate
Preparing the asbestos	precautions must be taken to prevent the risk of asphyxiation.
work area	 Ensure appropriately marked asbestos waste disposal bags are available.
	 Carry out the work with as few people present as possible.
	 Segregate the asbestos work area to ensure unauthorised personnel are restricted from entry (e.g. use warning signs and/ or barrier tape at all entry points). The distance for segregation should be determined by a risk assessment.
	• Use plastic sheeting secured with duct tape to cover any surface
	within the asbestos work area which could become contaminated.
	 Place plastic sheeting below any conduits before pulling any cables through.
	Ensure there is adequate lighting.
	 Avoid working in windy environments where asbestos fibres can be redistributed.
	 If using a bucket of water, do not resoak used rags in the bucket as this will contaminate the water. Instead, either fold the rag so a clean surface is exposed or use another rag.



SAFE WORK PRACTICE 4 – REPLACE CABLING IN ASBESTOS CEMENT CONDUITS OR BOXES

4 – REPLACE CABLING IN ASBESTOS CEMENT CONDUITS OR BOXES
 Wet down the equipment and apply adequate cable slipping compound to the conduits/ducts throughout the process. Clean all ropes, rods or snakes used to pull cables after use. Cleaning should be undertaken close to the point(s) where the cables exit from the conduits/ducts. Ropes used for cable pulling should have a smooth surface that can easily be cleaned. Do not use metal stockings when pulling cables through asbestos cement conduits. Do not use compressed air darts to pull cables through asbestos cement conduits/ducts.
 Use damp rags to clean the equipment. Wet wipe around the end of the conduit, sections of exposed cable and the pulling eye at the completion of the cable pulling operation. If the rope or cable passes through any rollers, these must also be wet wiped after use. Wet wipe the external surface of excess cable pulled through the conduit/duct, as close as possible to the exit point from the conduit, before it is removed from the work site. Carefully roll or fold any plastic sheeting used to cover any surface within the asbestos work area, so as not to spill any dust or debris that has been collected. If required, use damp rags or an asbestos vacuum cleaner to clean any remaining visibly contaminated sections of the asbestos work area. Place all debris, used rags, plastic sheeting and other waste in the asbestos waste bags/container. Wet wipe the external surfaces of the asbestos waste bags/ container
 to remove any adhering dust before they are removed from the asbestos work area. If disposable coveralls are worn, clean the coveralls while still wearing RPE using a HEPA vacuum, damp rag or fine-water spray. RPE can be cleaned with a wet rag or cloth. While still wearing RPE, remove coveralls, turning them inside-out to entrap any remaining contamination and then place them into a labelled asbestos waste bag. Remove RPE. If non-disposable, inspect it to ensure it is free from contamination, clean it with a wet rag and store in a clean container. If disposable, cleaning is not required but RPE should be placed in a labelled asbestos waste bag or waste container.

Work Health and Safety Regulation 2017 R425 and R429 requires workplaces to have an Asbestos Register and Management Plan, Reviews must be undertaken when changes occur in the Workplace or when asbestos is removed or more asbestos is identified, otherwise a review every 5 years is sufficient. Date of Register: 4th December 2017 Revision Due: 1st December 2022 Version 3.

information.

Refer to the Code of Practice: How to Safely Remove Asbestos for more



MANAGEMENT PLAN SITE: Katoomba Leura Preschool, 34, Lett Street, Katoomba, NSW, 2780

Job #17329R01

Pg.39

HAZARDOUS MATERIALS REGISTER &

SAFE WORK PRACTICE 4 – REPLACE CABLING IN ASBESTOS CEMENT CONDUITS OR BOXES

Clearance procedure

- Visually inspect the asbestos work area to make sure it has been properly cleaned.
- Clearance air monitoring is not normally required for this task.
- Dispose of all waste as asbestos waste.

Refer to the *Code of Practice: How to Safely Remove Asbestos* for more information.



Pg.40

2.4.5. Working on asbestos containing electrical switchboards

SAFE WORK PRACTICE 5 – WORKING ON ELECTRICAL MOUNTING BOARDS CONTAINING ASBESTOS

If the asbestos-containing electrical mounting panel has to be removed for work behind the board, the procedures outlined in the *Code of Practice: How to Safely Remove Asbestos* must be followed. If drilling is required, the control process should be consistent with the measures in Safe Work Practice 1.

Equipment that may be required prior to starting work (in addition to what is needed for the task)	 A non-powered hand drill or a low-speed battery-powered drill or drilling equipment. Battery-powered drills should be fitted with a LEV dust control hood wherever possible. If a LEV dust control hood cannot be attached and other dust control methods, such as pastes and gels, are unsuitable then shadow vacuuming techniques should be used Duct tape Warning signs and/or barrier tape Disposable cleaning rags A plastic bucket of water and/or a misting spray bottle Spare PPE A suitable asbestos waste container 200 µm plastic sheeting An asbestos vacuum cleaner.
PPE	 Protective clothing and RPE (see AS1715, AS 1716). It is likely that a class P1 or P2 half face respirator will be adequate for this task, provided the recommended safe work procedure is followed.



SAFE WORK PRACTICE 5 - WORKING ON ELECTRICAL MOUNTING BOARDS CONTAINING **ASBESTOS** As the work area will involve electrical hazards, precautions Preparing the asbestos work must be taken to prevent electrocution. area Ensure appropriately marked asbestos waste disposal bags are available. Carry out the work with as few people present as possible. Segregate the asbestos work area to ensure unauthorised personnel are restricted from entry (e.g. use warning signs and/ or barrier tape at all entry points). The distance for segregation should be determined by a risk assessment. Use plastic sheeting secured with duct tape to cover any surface within the asbestos work area which could become contaminated. Ensure there is adequate lighting. Avoid working in windy environments where asbestos fibres can be redistributed. If using a bucket of water, do not resoak used rags in the bucket as this will contaminate the water. Instead, either fold the rag so a clean surface is exposed or use another rag. Providing the panel is not friable, maintenance and service work Work on electrical mounting may include: panels replacing asbestos containing equipment on the electrical panel with non-asbestos equipment operate main switches and individual circuit devices pull/insert service and circuit fuses bridge supplies at meter bases use testing equipment access the neutral link Install new components/equipment. Use damp rags to clean the equipment. **Decontaminating the** Carefully roll or fold any plastic sheeting used to cover any asbestos work area and surface within the asbestos work area so as not to spill any dust equipment or debris that has been collected. If there is an electrical hazard, use an asbestos vacuum cleaner to remove any dust from the mounting panel and other visibly contaminated sections of the asbestos work area. If there is no electrical hazard, wet wipe with a damp rag to remove minor amounts of dust.

Work Health and Safety Regulation 2017 R425 and R429 requires workplaces to have an Asbestos Register and Management Plan, Reviews must be undertaken when changes occur in the Workplace or when asbestos is removed or more asbestos is identified, otherwise a review every 5 years is sufficient. Date of Register: 4th December 2017 Revision Due: 1st December 2022 Version 3.

asbestos waste bags/container.

removed from the asbestos work area.

Place debris, used rags, plastic sheeting and other waste in the

Wet wipe the external surfaces of the asbestos waste bags/ container to remove any adhering dust before they are



SAFE WORK PRACTICE 5 – WORKING ON ELECTRICAL MOUNTING BOARDS CONTAINING ASBESTOS			
Personal decontamination should be carried out in a designated area	 If disposable coveralls are worn, clean the coveralls while still wearing RPE using a HEPA vacuum, damp rag or fine-water spray. RPE can be cleaned with a wet rag or cloth. While still wearing RPE, remove coveralls, turning them insideout to entrap any remaining contamination and then place them into a labelled asbestos waste bag. Remove RPE. If non-disposable, inspect it to ensure it is free from contamination, clean it with a wet rag and store in a clean container. If disposable, cleaning is not required but RPE should be placed in a labelled asbestos waste bag or waste container. 		
	Refer to the <i>Code of Practice: How to Safely Remove Asbestos</i> for more information.		
Clearance procedure	 Visually inspect the asbestos work area to make sure it has been properly cleaned. Clearance air monitoring is not normally required for this task. Dispose of all waste as asbestos waste. 		
	Refer to the <i>Code of Practice: How to Safely Remove Asbestos</i> for more information.		



2.4.6. Inspection of asbestos friction materials

SAFE WORK PRACTICE 6 – INSPECTION OF ASBESTOS FRICTION MATERIALS

This guide may be used when friction ACM (e.g. brake assemblies or clutch housings) need to be inspected or housings need to be cleaned. Compressed air must not be used to clean dust from a brake assembly.

	A misting spray bottle
Equipment that may be	Duct tape
required prior to starting	 Warning signs and/or barrier tape
work (in addition to	Disposable cleaning rags
what is needed for the	A bucket of water and detergent
task)	Spare PPE
	A suitable asbestos waste container
	A catch tray or similar container
	An asbestos vacuum cleaner.
	• Protective clothing and RPE (see AS1715, AS 1716). It is likely that a
PPE	class P1 or P2 half face respirator will be adequate for this task,
	provided the recommended safe work procedure is followed.
	• Ensure appropriately marked asbestos waste disposal bags are
Preparing the asbestos	available.
work area	Carry out the work with as few people present as possible.
	 Determine whether to segregate the asbestos work area
	• Ensure unauthorised personnel are restricted from entry by using
	barrier tape and/or warning signs.
	Use a suitable collection device below where the work will be
	carried out to collect any debris/ runoff.
	Ensure there is adequate lighting.
	Avoid working in windy environments where asbestos fibres can be Avoid working in windy environments where asbestos fibres can be
	redistributed.
	If using a bucket of water, do not resoak used rags in the bucket as this will appropriate the water leaded with a fold the way as
	this will contaminate the water. Instead, either fold the rag so a
	clean surface is exposed or use another rag.



SAFE WORK PRACTICE 6 – INSPECTION OF ASBESTOS FRICTION MATERIALS

Inspection of asbestos friction materials

- A misting spray bottle should be used to wet down any dust. If spray
 equipment disturbs asbestos, use alternative wetting agents e.g. a
 water-miscible degreaser or a water/detergent mixture.
- Use the wet method, but if this is not possible the dry method may then be used.

Wet method:

- Use the misting spray bottle to wet down any visible dust.
- Use a damp rag to wipe down the wheel or automobile part before removal. Ensure the dust is kept wet to prevent atmospheric contamination.
- Use hand tools rather than power tools to reduce the generation of airborne fibres.
- Partially open the housing and softly spray the inside with water using the misting spray bottle. Any spillage of dust, debris or water must be controlled (e.g. capturing any runoff in a container) and either filtered or disposed of as asbestos waste.
- Open the housing and clean all asbestos parts using a damp rag, ensuring all runoff water is caught in an asbestos waste container.

Dry method:

- Place a tray under the components to catch dust or debris spilling from the housing or components during the inspection and dispose of any material as asbestos waste.
- Use an asbestos vacuum cleaner to remove asbestos from the brakes and rims or other materials before carrying out the inspection.

Decontaminating the asbestos work area and equipment

- Use damp rags to clean the equipment, including the dust collection tray.
- If necessary, use damp rags or an asbestos vacuum cleaner to clean any remaining visibly contaminated sections of the asbestos work area.
- Place debris, used rags and other waste in the asbestos waste bags/container.
- Wet wipe the external surfaces of the asbestos waste bags/ container to remove any adhering dust before removing them from the asbestos work area.



MANAGEMENT PLAN SITE: Katoomba Leura Preschool, 34, Lett Street, Katoomba, NSW, 2780 Job #17329R01

Pg.45

HAZARDOUS MATERIALS REGISTER &

Personal decontamination should be carried out in a designated area If disposable coveralls are worn, clean the coveralls while still wearing RPE using a HEPA vacuum, damp rag or fine-water spray. RPE can be cleaned with a wet rag or cloth. While still wearing RPE, remove coveralls, turning them inside-out to entrap any remaining contamination and then place them into a labelled asbestos waste bag. Remove RPE. If non-disposable, inspect it to ensure it is free from contamination, clean it with a wet rag and store in a clean container. If disposable, cleaning is not required but RPE should be placed in a labelled asbestos waste bag or waste container.

SAFE WORK PRACTICE 6 – INSPECTION OF ASBESTOS FRICTION MATERIALS

Refer to the *Code of Practice: How to Safely Remove Asbestos* for more information.

Clearance procedure

- Visually inspect the asbestos work area to make sure it has been properly cleaned.
- Clearance air monitoring is not normally required for this task.
- Dispose of all waste as asbestos waste.

Refer to the *Code of Practice: How to Safely Remove Asbestos* for more information.



Pg.46

2.4.7 Sampling of asbestos materials

If additional suspected asbestos based products are identified on-site, especially in difficult to access areas or during the course of demolition and/or refurbishment activities a representative sample should be obtained and sent for laboratory analysis. Until results are obtained the product should be assumed to contain asbestos and treated accordingly, until laboratory analysis indicates otherwise.

2.4.7.1. Laboratory Sampling guidelines are as follows:

- The sample should be representative of the larger bulk material.
- The sample should include a full cross-section. For example, a sample of insulation material should include material from the outer cool face of armouring cement, if present, through to the inner hot face of the main insulating layer.
- Material from any repaired and repatched areas should be treated as separate sub-samples.
- The quantity of the sample collected should preferably be 5-100 grams, except floor tiles that are required to be a minimum of approximately 100 square centimetres.
- The sample should be transported in a labelled sealed container and preferably protected from undue vibration and disturbance
- As complete a sample history as possible should be recorded. This includes the exact location of the sample, chemical and physical conditions affecting the sample, and a factual description of the sample and sub-samples.

2.4.7.1. To Obtain a Sample the Process is as follows:

Send sealed sample (preferably double bagged, plastic clip lock bags are sufficient) to;
 Regional EnviroScience, PO Box 1645, Dubbo, NSW, 2830



MANAGEMENT PLAN SITE: Katoomba Leura Preschool, 34, Lett Street, Katoomba, NSW, 2780 Job #17329R01

HAZARDOUS MATERIALS REGISTER &

A competent person should take the following steps to carry out sampling:

2.4.7.1 (A) - PREPARATION

- Make sure no one else is in the vicinity when sampling is done.
- Shut down any heating or cooling systems to minimize the spread of any released fibres.
- Turn off any fans if you're inside. If outside, then sample on a non-windy day.
- Do not disturb the material any more than is needed to take a small sample.
- Collect the equipment you will need for sampling, including: pliers, resealable plastic bags,
 disposable coveralls, waterproof sealant, plastic drop sheet, water spray bottle
- P2 respirator, rubber gloves.

2.4.7.1 (B) - TAKING THE SAMPLE

- Wear disposable gloves.
- Put on respiratory protective equipment (RPE).
- Wear a pair of disposable coveralls.
- Lay down a plastic drop sheet to catch any loose material that may fall off while sampling.
- Wet the material using a fine mist of water containing a few drops of detergent before taking the sample. The water/detergent mist will reduce the release of asbestos fibres.
- Carefully cut a thumb nail piece from the entire depth of the material using the pliers.
- For fibre cement sheeting, take the sample from a corner edge or along an existing hole or crack.
- Place the small piece into the resealable plastic bag.
- Double bag the sample, include the date and location and an asbestos caution warning.
- Tightly seal the container after the sample is in it.
- Carefully dispose of the plastic sheet.
- Use a damp paper towel or rag to clean up any material on the outside of the container or around the area sampled.
- Dispose of asbestos materials according to state or territory and local procedures.
- Patch the sampled area with the smallest possible piece of duct tape to prevent fibre release.
- Send the sample to a NATA-accredited laboratory or one that is either approved or operated by the relevant regulator.



MANAGEMENT PLAN SITE: Katoomba Leura Preschool, 34, Lett Street, Katoomba, NSW, 2780 Job #17329R01

Pg.48

HAZARDOUS MATERIALS REGISTER &

2.4.7.1 (c) - CLEANING UP

- Seal the edges with waterproof sealant where the sample was taken.
- Carefully wrap up the plastic drop sheet with tape and then put this into another plastic rubbish bag.
- Wipe down the tools and equipment with a dampened rag.
- Place disposable gloves and coveralls into a rubbish bag, along with the damp rag and drop sheet.
- Seal plastic bag.
- Wash hands.
- Keep RPE on until clean-up is completed.
- Follow a decontamination procedure (personal washing) upon completion of the task.

2.5 PERMIT TO WORK

2.5.1 Asbestos Removal Works

Before works commence ensure that the following minimal considerations have been addressed. Please photocopy and complete the permit to work documentation to ensure that a record of the asbestos removal works is evidenced. A record of these works should be kept with the Management Plan and the Asbestos Register should be updated.



HAZARDOUS MATERIALS REGISTER &
MANAGEMENT PLAN

SITE: Katoomba Leura Preschool, 34, Lett Street, Katoomba, NSW, 2780

Job #17329R01

PERMIT TO WORK - ASBESTOS REMOVAL SITE CHECKLIST				
Site address:				
Item	Checked by	Date checked		
1. Barriers and signs erected				
2. Remediation Area inspection:				
Emergency exits established and identified				
Fire extinguishers appropriately placed				
Site water runoff contained				
 Bag disposal area/enclosure inspected 				
Asbestos disposal bags in remediation area				
 Bag ties in remediation area 				
 Electric equipment or cabling protected against 				
water				
 Air handling systems isolated and sealed off in 				
adjacent buildings, including windows closed				
3. Decontamination unit inspection:				
Hot and cold water connected and operating				
Change room/decontamination lighting				
operating				
 Decontamination drainage system checked 				
Contaminated clothes container provided				
4. Change Room				
 Protective clothing and spares in change room 				
Safety gumboots available				
 Towels/soap/shampoo/nail cleaners in the 				
change room				
 Respirator storage and cleaning facilities 				
provided				
5. All personnel trained in use and maintenance of PPE				
and emergency procedures				
6. Air monitoring in place				
7. Asbestos waste facilities available				
Appropriate waste transportation vehicles				
o. Appropriate waste transportation vehicles				

Work Health and Safety Regulation 2017 R425 and R429 requires workplaces to have an Asbestos Register and Management Plan, Reviews must be undertaken when changes occur in the Workplace or when asbestos is removed or more asbestos is identified, otherwise a review every 5 years is sufficient. Date of Register: 4th December 2017 Revision Due: 1st December 2022 Version 3.



MANAGEMENT PLAN SITE: Katoomba Leura Preschool, 34, Lett Street, Katoomba, NSW, 2780 Job #17329R01

HAZARDOUS MATERIALS REGISTER &

PERMIT TO WORK - ASBESTOS REMOVAL SITE CHECKLIST	
 Wash bay area Drivers trained, including cabins set on recirculating air, windows up. Automatic tarps to cover wet soil loads Plastic lined if possible friable asbestos. Decontamination procedures 	
9. Documentation required to be onsite:	
Training recordsAsbestos removal control planAsbestos removal licence	
Name of Nominated Asbestos Controller and Signature: Name of Asbestos Removalist and Signature:	
Name of Occupational Hygienist and Signature:	
DATE WORKS UNDERTAKEN:	



Job #17329R01

Pg.51

2.5.2 Asbestos Disturbance/Maintenance Works

Please photocopy and complete the permit to work documentation to ensure that asbestos works are undertaken correctly. A record of these works should be kept with the Asbestos Register and Management Plan.

PERMIT TO WORK - ASBESTOS DISTURBANCE/MAINTENANCE CHECKLIST				
Site address:				
Item	Checked by	Date checked		
1. Has a Safe Work Method been utilised? If so is the				
operator familiar and understands what is required?				
2. Work Area Established including barriers and signs				
erected and area isolated:				
 Emergency exits established and identified 				
 Bag disposal area/enclosure inspected 				
Electric equipment or cabling protected against				
water				
 Air handling systems isolated and sealed off in 				
adjacent buildings, including windows closed				
3. Personal Protection				
All personnel trained in use and maintenance of				
PPE, including respirators and personal				
decontamination procedures.				
All personnel trained in the health hazards of				
asbestos				
4. Air monitoring in place and locations				
5. Asbestos waste facilities available				
Asbestos disposal bags in remediation area				
Bag ties in remediation area				
Name and Signature of Nominated Asbestos Controller:				
Name and Signature of Contractor or Employee undertaking	ing the works:			
DATE WORKS UNDERTAKEN:				

Work Health and Safety Regulation 2017 R425 and R429 requires workplaces to have an Asbestos Register and Management Plan, Reviews must be undertaken when changes occur in the Workplace or when asbestos is removed or more asbestos is identified, otherwise a review every 5 years is sufficient. Date of Register: 4th December 2017 Revision Due: 1st December 2022 Version 3.



2.6 RECORDS OF CHANGES & ACTIVITIES

Date	Location	Asbestos Product	Activity	Signature*
Example	Female Toilet, Eastern Wall	Bonded Asbestos Cement Sheet	Drilled to affix paper dispenser	

^{*} The person identified with the responsibility of the management and control of the Asbestos Register and Management Plan must sign and insure that the permit to work system had been implemented, and works have been undertaken in the prescribed manner.

HAZARDOUS MATERIALS REGISTER &
MANAGEMENT PLAN
SITE: Katoomba Leura Preschool,
34, Lett Street,
Katoomba,
NSW, 2780
Job #17329R01

Pg.53

3.0 Lead Based Paints

Lead based paints were found to be present on the exterior of the building at Katoomba Leura Preschool Building during a hazardous building materials inspection.

As per AS4361.2:2017 Guide to Hazardous Paint Management, Part 2: Lead paint in residential, public and commercial buildings; defines a lead based paint as a paint film or component coat of paint system containing lead or lead compounds, in which the lead content is in excess of 0.1% by weight of the dry film as determined by laboratory testing.

It is also recommended that during removal of painted surfaces appropriate safety precautions to reduce the risk of dust generation and ingestion, be adopted by the demolition contractor and disposal of lead based painted objects should be deposited at a licensed landfill. It is also recommended that during any refurbishment works undertaken remediation of any lead contaminated dust be carried out prior to the commencement of works.

Health Hazards from Lead Exposure

- Lead interferes with many body processes and is poisonous to most organs and tissues, including the bones, intestines, kidneys, nervous system, and reproductive organs.
- Acute lead poisoning (high exposure over a short period of time) can cause fatigue, anaemia, constipation, and damage to the nervous system.
- Chronic lead poisoning (exposure over a longer period of time) can cause fatigue, joint pain, and weakness.
- Lead poisoning can damage the foetus in pregnant female workers, and impair fertility in male workers.
- Workers are exposed to lead when they inhale lead-containing dust or ingest lead residue from their hands (for example, when eating, chewing gum, or smoking).
- Lead is a suspected human carcinogen and has been shown to cause cancer in laboratory animals.



Lead Dust Controls

The Regulation requires employers to select lead dust controls based on the following hierarchy:

- 1. Engineering controls (for example, barriers, enclosures, general ventilation, local exhaust ventilation).
- 2. Administrative controls (for example, wash stations, separate eating and changing areas, and limiting the time workers are exposed to lead).
- 3. Personal protective equipment (such as respirators and disposable coveralls)
 - Respirators will be used in conjunction with other controls to reduce worker exposure to lead, unless air monitoring information suggests otherwise.
 - A HEPA vacuum will be used for clean-up and decontamination.

Acceptable control methods for removing lead-containing paint

- The work methods in the following table are acceptable, provided that the respirator selection, dust suppression, and other controls are adhered to.
- The following control options will be used to eliminate or reduce the risk to workers from the hazards of lead dust exposure, unless air monitoring information suggests otherwise.

Work activity	Dust suppression	Other controls	Respirator type
Manual (hand) sanding or scraping	 Peeling paint will be misted with water before scraping. Debris will be misted before sweeping or vacuuming. A HEPA vacuum will be used to remove debris. 	 Disposable drop sheets will be placed below the work area. Barriers (for example, a tape barrier) will be installed to restrict access to the work area. Signs will be posted at every entrance to the work area. Workers will use disposable coveralls. 	 NIOSH-approved single-use N95, N99, or P100 respirator Half-face respirator with HEPA P100 series filters
Manual scraping using heat guns	 The heat gun temperature must be kept as low as practicable. Debris will be misted before sweeping or 	 Disposable drop sheets will be placed below the work area. Barriers (for example, a tape barrier) will be installed to restrict access to the work area. Partial or full enclosures will be 	Half-face respirator with HEPA P100 series filters

Work Health and Safety Regulation 2017 R425 and R429 requires workplaces to have an Asbestos Register and Management Plan, Reviews must be undertaken when changes occur in the Workplace or when asbestos is removed or more asbestos is identified, otherwise a review every 5 years is sufficient. Date of Register: 4th December 2017 Revision Due: 1st December 2022 Version 3.



Work activity	Dust suppression	Other controls	Respirator type
	vacuuming. • A HEPA vacuum will be used to remove debris.	constructed around work areas where significant removal will take place. Where full enclosures are required, they will be equipped with HEPA-filtered mechanical ventilation. Signs will be posted at every entrance to the work area. Workers will use disposable coveralls.	
Manual scraping using a chemical stripper	 Debris will be misted before sweeping or vacuuming. A HEPA vacuum will be used to remove debris. 	 Disposable drop sheets will be placed below the work area. Barriers (for example, a tape barrier) will be installed to restrict access to the work area. Signs will be posted at every entrance to the work area. The work area will be ventilated with a continuous supply of fresh air for the workers. Partial or full enclosures will be constructed around work areas where significant removal will take place. Where full enclosures are required, they will be equipped with HEPA-filtered mechanical ventilation. Workers will use disposable coveralls. Methylene chloride products will not be used. Additional PPE (for example, gloves and goggles) may be required as recommended by the MSDS for the chemical stripper. 	 Half-face respirator with HEPA P100 series/organic vapour cartridges Additional respiratory protection may be required as recommended by the MSDS for the chemical stripper
Removing paint using powered hand tools	 Tools equipped with a HEPA-filtered dust collection system will be used. Debris will be misted before sweeping or vacuuming. 	 Disposable drop sheets will be placed below the work area. Barriers (for example, a tape barrier) will be installed to restrict access to the work area. Signs will be posted at every entrance to the work area. 	 NIOSH-approved singleuse N95, N99, or P100 respirator Half-face respirator with HEPA P100 series filters

Work Health and Safety Regulation 2017 R425 and R429 requires workplaces to have an Asbestos Register and Management Plan, Reviews must be undertaken when changes occur in the Workplace or when asbestos is removed or more asbestos is identified, otherwise a review every 5 years is sufficient. Date of Register: 4th December 2017 Revision Due: 1st December 2022 Version 3.



Work activity	Dust suppression	Other controls	Respirator type	
	A HEPA vacuum will be used to remove debris.	Workers will use disposable coveralls.		
	 Tools without a dust suppression system will be used. Debris will be misted before sweeping or vacuuming. A HEPA vacuum will be used to remove debris. 	 Disposable drop sheets will be placed below the work area. Partial or full enclosures should be constructed around work areas where removal will take place. Where full enclosures are required, they should be equipped with HEPA-filtered mechanical ventilation. Workers will use disposable coveralls. 	 Full-face elastomeric respirator equipped with P100 HEPA cartridges, or Powered air-purifying respirator (PAPR) equipped with P100 HEPA cartridges 	



Lead Air Monitoring during Removal Works, Visual Clearances and Clearance Air Monitoring

The Hygienist will throughout works undertake "real time" air monitoring to ensure that on-site processes and procedures adopted are satisfactory. During the lead management works Lead air monitoring, clearance air monitoring and monitoring during enclosure dismantling will be undertaken. At the completion of works a visual clearance inspection will also be undertaken.

The static air sampling will indicate if the removal work methods employed on-site by the certified contractor are proving to be effective work techniques.

Surface dust sampling will be taken at the completion of each section of works, and sent away for analysis as evidence of satisfactory lead management procedures.

The following table indicates the required control levels and required actions.

Table 1 – Lead Control levels and required actions

Control Level	Control / Action			
Surface Dust Samples interior floors if >1 mg/m ²	Vacuum, wet wipe and decontaminate area			
Surface Dust Samples of Exterior Surfaces > 8mg/m ²	again			
Real Time Static Air Monitoring* ≥0.02 mg/m ³	Review control measures			
Real Time Static Air Monitoring* ≥0.05 mg/m ³	Stop Lead Management Works and find			
Real fillie Static All Worldoning 20.03 mg/m	cause			
Real Time Static Air Monitoring* ≥0.1 mg/m ³	Stop Lead Management Works and			
Real Time Static All Monitoring 20.1 mg/m	Decontaminate Area			
*Current Occupational Exposure Limit (OEL) 0.15mg/m ^{3,} AIOH recommended OEL 0.1 mg/m ³				
Clearance Air Monitoring must be below 0.075mg/m³ as per SLR specification				

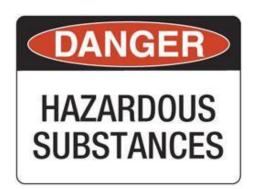
HAZARDOUS MATERIALS REGISTER &
MANAGEMENT PLAN
SITE: Katoomba Leura Preschool,
34, Lett Street,
Katoomba,
NSW, 2780
Job #17329R01

LEAD (Pb) MANAGEMENT SPECIFICATIONS

The bulk of the lead management will be preparing lead based paint surfaces ready for the application of new paint.

> Interim Site Security and Safety

It is recommended that signage be placed around the perimeter of the site, together with barriers constructed of barrier tape and or trestles. Signage should be similar to the ones detailed below.





Lead (Pb) Removal and Site Remediation:

As per legislation, the Lead (Pb) paint preparation works need to be undertaken by an experienced lead abatement contractor. It is also a requirement of legislation that the Contractor provide a Safe Work Method Statement as well as documentary evidence of personnel involved and their Lead (Pb) Biological Blood Level Monitoring program as per Part 7.6 of the NSW OH&S Regulation 2001, if regular lead works are to be undertaken.

As discussed, the experienced contractor will need to prepare a Safe Method of Work Statement including;

A minimum 200µm thick plastic sheeting to create an "enclosure" prior to preparation works
including on the floor to collect paint debris and to prevent other surfaces, this "enclosure"
then needs to undergo a visual inspection by the Hygienist prior to Lead (Pb) works
commencing.

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HAZARDOUS MATERIALS REGISTER &
MANAGEMENT PLAN
SITE: Katoomba Leura Preschool,
34, Lett Street,
Katoomba,
NSW, 2780
Job #17329R01

- A "decontamination" facility for personnel and equipment needs to be adopted, with
 consideration for the reclaiming of contaminated water, coveralls, personal protective
 equipment and cloths used for cleaning etc. Work zones need to be considered and agreed
 to prior to works commencing this will ensure that clean areas are not contaminated and
 that contractor personnel adopt correct personal hygiene procedures. The work zones need
 to be separated by suitable airlocks or buffer zones.
- Adoption of wet removal methods during Lead(Pb) works to suppress and contain dust are to be utilised. To remove flaked and peeling paint and to prepare surfaces prior to painting wet scraping or wet sanding as detailed in the AS 4361 are to be adopted.
- Decontamination requirements for personnel, tools and equipment, the Lead(Pb) work area and any other areas that could become contaminated need to be considered and addressed in the plan. At the end of works all plant and equipment within the Lead(Pb) work area including any remaining non-movable items, should be vacuumed and/or wet wiped to remove any residual dust if evidenced. After a satisfactory clearance, visual inspection coupled with "real time" clearance air monitoring both undertaken by the Hygienist the "enclosure" maybe sprayed with an adhesive (PVA) to contain any dust and then dismantled prior to demobilization.
- Appropriate personal protection procedures including coveralls, and gloves, eye protection and Type P2 particulate respirators with particulate filter cartridges are to be used as a minimum requirement during painting works.

All possible Lead (Pb) contaminated materials, including paint debris, personnel protective equipment, plastic drop sheets etc must be documented in the Safe Work Method Statement describing the arrangements for storage, transport and disposal. Compliance with current environmental protection laws must be evidenced, as well as contingency plans for accidental spills.

HAZARDOUS MATERIALS REGISTER & MANAGEMENT PLAN

SITE: Katoomba Leura Preschool,

34, Lett Street, Katoomba, NSW, 2780 Job #17329R01

Pg.60

4.0 Synthetic Mineral Fibre Products (SMFs)

No Synthetic Mineral Fibre building materials were found to be present at the Katoomba Leura Preschool during the hazardous building materials inspection.

The information provided below is provided in the case of an unexpected find of SMF occurs.

If works do need to be undertaken which will disturb this material, safety goggles, disposable coveralls, gloves and a class P2 respirator should be adopted. This will avoid any skin irritation and inhalation of airborne fibres.

Air monitoring should also be undertaken to ensure that levels are less than the current workplace exposure standard of 0.5 fibres/ml. Measurement of airborne levels of respirable SMF fibres is undertaken in accordance with the SMF Membrane Filter Method (NOHSC, 1989b) and if necessary the gravimetric inhalable dust method (AS 3640-2004). Using the MFM, respirable fibres are defined as being at least 5µm long, and no more than 3µm wide with a length to width ratio of at least 3 to1. The results are compared against the current NES for respirable SMF fibre (0.5 f/mL) or the complimentary gravimetric inhalable dust standard (2 mg/m3).

5.0 Polychlorinated Biphenyls (PCBs)

No Polychlorinated Biphenyl containing capacitors were found to be present in the fluorescent light fitting inspected at the Katoomba Leura Preschool during the hazardous building materials inspection.

The information provided below is provided in the case of an unexpected find of PCB's occurs.

PCB material within fluorescent light fittings present a negligible risk unless damaged or leaking.

PCB material may be inhaled, ingested or absorbed through the skin. The National Occupational

Health and Safety Commission (NOHSC) has determined a maximum exposure standard for PCB's:

PCBs containing 42 % chloride

Time weighted average (TWA): 1 mg/m3

Short term exposure limit (STEL): 2 mg/m3

PCBs containing 54 % chloride

Time weighted average (TWA): 0.5 mg/m3

Short term exposure limit (STEL): 1mg/m3

HAZARDOUS MATERIALS REGISTER & MANAGEMENT PLAN SITE: Katoomba Leura Preschool,

34, Lett Street, Katoomba,

> NSW, 2780 Job #17329R01

> > Pg.61

All PCBs should be labelled;

"CAUTION

CONTAINS POLYCHLORINATED BIPHENYL (PCB)

A TOXIC HAZARD AND TOXIC ENVIRONMENTAL CONTAMINANT"

The preferred control option is to remove and replace all PCB capacitors. Temporary storage of PCB-containing equipment should be placed in a polythene bag and sealed inside a metal container that is clearly marked with the details of the contents. If some of the material is leaking then the container should be partially filled with an absorbent packing material.

All scheduled PCB waste must be treated by a licensed/approved operator. Solid and liquid scheduled waste must not go to landfill.

6.0 Phenols

No Phenols were found to be present at Katoomba Leura Preschool premises during the hazardous building materials inspection.

The main source of Phenol products is Bakelite products, such electrical switches. The Phenol material identified on-site was in a bonded format, and in this structure and condition does not present a significant risk in its current condition and state.

If Bakelite materials are disturbed they should be handled similar to bonded (Non-friable) Asbestos. If works do need to be undertaken which will disturb this material, disposable coveralls, gloves and a class P2 respirator should be adopted. This will avoid any skin absorption or chemical inhalation.



Pg.62

References

- 1. NSW Work Health and Safety Act 2011 [2011-674]
- 2. NSW Work Health and Safety Regulation 2017
- 3. Code of Practice; How to Manage and Control Asbestos in the Workplace [Safe Work Australia: 2016]
- 4. Code of Practice; How to Safely Remove Asbestos [safe Work Australia: 2016].
- 5. Code of Practice for the Safe Removal of Asbestos 2nd Edition [NOHSC:2002(2005)]
- 6. Guidelines for Health Surveillance [NOHSC: 7039 (1995)]
- 7. National Exposure Standards for Atmospheric Contaminants in the Occupational Environment 3rd Edition [NOHSC: 1003(1995)]
- 8. Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres 2nd Edition [NOHSC:3003(2005)].
- 9. Guidance Note on the Interpretation of Exposure Standards for Atmospheric Contaminants in the Occupational Environment 3rd Edition [NOHSC: 3008 (1995)]
- 10. Australia/New Zealand Standard 1716-2012 Respiratory Protective Device
- 11. Australian/New Zealand Standard 1715-2009 Selection, Use and Maintenance of Respiratory Protective Devices
- 12. AS/NZS 60335.2.69:2003, Household and Similar Electrical Appliances Safety - Vacuum Cleaners, Class H requirements
- 13. National Code of Practice for the Control of Workplace Hazardous Substances [NOHSC:2007(1994)].
- 14. Code of Practice for the Safe Removal of Asbestos 2nd Edition [NOHSC:2002(2005)]
- 15. Code of Practice for the Management and Control of Asbestos in Workplaces [NOHSC: 2018 (2005)].
- 16. Australia/New Zealand Standard 1716-2003 Respiratory Protective Device
- 17. Australian/New Zealand Standard 1715-1994 Selection, Use and Maintenance of Respiratory Protective Devices
- 18. Australian/New Zealand Standard 3544 *Industrial vacuum cleaners for particulates*hazardous to health



APPENDIX I: SAMPLE ANALYSIS RESULTS

APPENDIX II: BACKGROUND AIRBORNE ASBESTOS AIR MONITORING RESULTS

APPENDIX III: LEAD (Pb) SAMPLE ANALYSIS RESULTS

Work Health and Safety Regulation 2017 R425 and R429 requires workplaces to have an Asbestos Register and Management Plan, Reviews must be undertaken when changes occur in the Workplace or when asbestos is removed or more asbestos is identified, otherwise a review every 5 years is sufficient. Date of Register: 4th December 2017 Revision Due: 1st December 2022 Version 3.



LABORATORY ANALYSIS REPORT Asbestos Identification Report

Report No: B17329-R1 **Report Date:** Thursday, 7 December 2017

Client: Blue Mountains City Council Analysed Date: Thursday, 7 December 2017

Client Address: 2-6 Civic Place, Laboratory Receival Date: Wednesday, 6 December 2017

Sampled Date: Saturday, 2 December 2017

Attention: Rick Harris Approved Identifier and Signatory: Jeffrey Sargent

Sampled From: Katoomba Leura Preschool, 34 Lett

Katoomba, NSW, 2780

Street, Katoomba NSW 2780

Test Method: Polarised Light Microscopy (PLM) including Dispersion Staining (DS), Regional EnviroScience Pty Ltd in-

house laboratory method, in accordance with Australian Standard AS4964-2004 'Method for the qualitative identification of asbestos in bulk samples'. Accredited for compliance with ISO/IEC:17025-

Testing.

Sample Number	Sample Location	Sample Description	Sample Size	Asbestos Detected	Fibres Detected
B17329-S1	Eave Lining	Fibre cement	0.4 gm	Yes	Chrysotile
B17329-S2	All Windows	Mastic	0.9 gm	No	None
B17329-S3	Verandah	Fibre cement	0.1 gm	Yes	Chrysotile, Organic
B17329-S4	Skillion	Fibre cement	0.1 gm	Yes	Chrysotile, Organic
B17329-S5	Front Skillion	Fibre cement	0.1 gm	Yes	Chrysotile, Organic
B17329-S6	Subfloor Infill	Fibre cement	0.6 gm	No	Organic
B17329-S7	Infill North	Fibre cement	0.6 gm	No	Organic
B17329-S8	Subfloor	Fibre cement	0.2 gm	Yes	Chrysotile, Organic
B17329-S9	Wall Panel	Fibre cement	0.1 gm	Yes	Chrysotile, Organic
B17329-S10	Washroom Panel	Fibre cement	0.1 gm	No	Organic





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LABORATORY ANALYSIS REPORT Asbestos Identification Report

Report No: B17329-R2 Report Date: Thursday, 7 December 2017

Client: Blue Mountains City Council Analysed Date: Thursday, 7 December 2017

Client Address: 2-6 Civic Place, Laboratory Receival Date: Thursday, 7 December 2017

Katoomba, NSW, 2780 Sampled Date: Monday, 4 December 2017

Attention: Rick Harris Approved Identifier and Signatory: Jeffrey Sargent

Sampled From: Katoomba Leura Preschool, 34 Lett

Street, Katoomba NSW 2780

Test Method: Polarised Light Microscopy (PLM) including Dispersion Staining (DS), Regional EnviroScience Pty Ltd in-

house laboratory method, in accordance with Australian Standard AS4964-2004 'Method for the qualitative identification of asbestos in bulk samples'. Accredited for compliance with ISO/IEC:17025-

esting.

Sample Number	Sample Location	Sample Description	Sample Size	Asbestos Detected	Fibres Detected
B17329-S18	Verandah Ceiling Subfloor Area	Fibre cement	0.4 gm	Yes	Chrysotile, Amosite, Organic
B17329-S19	ACM Packers - Main Building	Fibre cement	3.4 gm	Yes	Chrysotile, Organic
B17329-S20	Subfloor - Main Building	Fibre cement	110.4 gm	Yes	Chrysotile, Organic
B17329-S21	Subfloor - Main Building	Fibre cement	199.5 gm	Yes	Chrysotile, Amosite, Organic
B17329-S22	ACM Packers - Small Building	Fibre cement	0.7 gm	Yes	Chrysotile, Organic
B17329-S23	Subfloor Ceiling - Small Building	Fibre cement	2.4 gm	No	Organic





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LABORATORY ANALYSIS REPORT Asbestos Identification Report

Report No: B17329-R3 **Report Date:** Friday, 8 December 2017

Client: Blue Mountains City Council Analysed Date: Friday, 8 December 2017

Client Address: 2-6 Civic Place, Laboratory Receival Date: Thursday, 7 December 2017

Katoomba, NSW, 2780 Sampled Date: Monday, 4 December 2017

Attention: Rick Harris Approved Identifier and Signatory: Kenneth Archer

Sampled From: Katoomba Leura Preschool, 34 Lett

Street, Katoomba NSW 2780

Test Method: Polarised Light Microscopy (PLM) including Dispersion Staining (DS), Regional EnviroScience Pty Ltd in-

house laboratory method, in accordance with Australian Standard AS4964-2004 'Method for the qualitative identification of asbestos in bulk samples'. Accredited for compliance with ISO/IEC:17025-

esting.

Sample Number	Sample Location	Sample Description	Sample Size	Asbestos Detected	Fibres Detected
B17329-S11	North Aspect Entire Exterior	Fibre cement	2.6 gm	Yes	Chrysotile, Organic
B17329-S12	Eaves North	Fibre cement	0.2 gm	Yes	Chrysotile, Crocidolite
B17329-S13	South Aspect Ramp	Fibre cement	6.2 gm	No	Organic
B17329-S14	Bottom Layer Floor Covering	Linoleum	4.7 gm	No	None
B17329-S15	Top Layer Floor Covering	Linoleum	1.1 gm	No	Synthetic Mineral
B17329-S16	Staff Toilet Walls	Fibre cement	1.0 gm	No	Organic
B17329-S17	Childrens Toilet Walls	Fibre cement	0.4 gm	No	Organic





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LABORATORY ANALYSIS REPORT Estimation of Airborne Asbestos Fibres

Report No: A17329-R1 Report Date: Wednesday, 6 December 2017

Client: Blue Mountains City Council Analysed Date: Wednesday, 6 December 2017

Client Address: 2-6 Civic Place, Laboratory Receival Date: Wednesday, 6 December 2017

Katoomba, NSW, 2780 Sampled Date: Saturday, 2 December 2017

Sampled By: Phill Abbott

Attention: Rick Harris Approved Counter and Signatory: Kenneth Archer

Sampled From: Katoomba Leura Preschool, 34 Lett Type of Monitoring: Background Monitoring

Street, Katoomba NSW 2780

Test Method: In accordance with the (NOHSC:3003 (2005) Guidance Note on the Membrane Filter Method for Estimating Airborne Fibres (as outlined in the Laboratory Method Manual). Accredited for compliance with

ISO/IEC:17025-Testing.

Sample Number	Sample Location	Time On Off	Flow Rate L/ Min	Results Fibres / Field	Results Fibres / ml
A17329-S1	Mid Classroom	0805 / 0945 100 min	4.0	1/100	< 0.01
A17329-S2	North Playground	0805 / 0945 100 min	4.0	0 /100	< 0.01
A17329-S3	Quality Control Laboratory Blank	0805 / 0945 100 min	N.A.	0 /100	Acceptable limit





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LABORATORY ANALYSIS REPORT Estimation of Airborne Asbestos Fibres

Report No: A17329-R2 Report Date: Thursday, 7 December 2017

Client: Blue Mountains City Council Analysed Date: Thursday, 7 December 2017

Client Address: 2-6 Civic Place, Laboratory Receival Date: Thursday, 7 December 2017

Katoomba, NSW, 2780 Sampled Date: Monday, 4 December 2017

Sampled By: Michael Williamson

Attention: Rick Harris Approved Counter and Signatory: Kenneth Archer

Sampled From: Katoomba Leura Preschool, 34 Lett Type of Monitoring: Background Monitoring

Street, Katoomba NSW 2780

Test Method: In accordance with the (NOHSC:3003 (2005) Guidance Note on the Membrane Filter Method for Estimating Airborne Fibres (as outlined in the Laboratory Method Manual). Accredited for compliance with

ISO/IEC:17025-Testing.

Sample Number	Sample Location	Time On Off	Flow Rate L/ Min	Results Fibres / Field	Results Fibres / ml
A17329-S4	Central	1340 / 1530 110 min	4.0	0 /100	< 0.01
A17329-S5	Laundry	1340 / 1530 110 min	4.0	0 /100	< 0.01





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18/45 Aerodrome Road
Maroochydore QLD 4558



Envirolab Services Pty Ltd

ABN 37 112 535 645 12 Ashley St Chatswood NSW 2067 ph 02 9910 6200 fax 02 9910 6201 customerservice@envirolab.com.au www.envirolab.com.au

CERTIFICATE OF ANALYSIS 181765

Client Details	
Client	Regional Enviroscience
Attention	Juliet Duffy
Address	PO Box 1645, Dubbo, NSW, 2830

Sample Details	
Your Reference	<u>17329</u>
Number of Samples	4 Paint
Date samples received	11/12/2017
Date completed instructions received	11/12/2017

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Report Details			
Date results requested by	18/12/2017		
Date of Issue	14/12/2017		
NATA Accreditation Number 2901. This document shall not be reproduced except in full.			
Accredited for compliance with ISO/II	EC 17025 - Testing. Tests not covered by NATA are denoted with *		

Results Approved By

Long Pham, Team Leader, Metals

Authorised By

David Springer, General Manager

Envirolab Reference: 181765 Revision No: R00



Lead in Paint					
Our Reference		181765-1	181765-2	181765-3	181765-4
Your Reference	UNITS	S01	S02	S03	S04
Date Sampled		04/12/2017	04/12/2017	04/12/2017	04/12/2017
Type of sample		Paint	Paint	Paint	Paint
Date prepared	-	13/12/2017	13/12/2017	13/12/2017	13/12/2017
Date analysed	-	13/12/2017	13/12/2017	13/12/2017	13/12/2017
Lead in paint	%w/w	<0.05	<0.05	1.5	<0.05

Envirolab Reference: 181765 Revision No: R00

Method ID	Methodology Summary
Metals-004	Digestion of Paint chips/scrapings/liquids for Metals determination by ICP-AES/MS and or CV/AAS.

Envirolab Reference: 181765 Page | 3 of 6

Revision No: R00

QUALITY CONTROL: Lead in Paint					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			13/12/2017	3	13/12/2017	13/12/2017		13/12/2017	[NT]
Date analysed	-			13/12/2017	3	13/12/2017	13/12/2017		13/12/2017	[NT]
Lead in paint	%w/w	0.05	Metals-004	<0.05	3	1.5	1.4	7	99	[NT]

Envirolab Reference: 181765

Revision No: R00

Result Definitions				
NT	Not tested			
NA	Test not required			
INS	Insufficient sample for this test			
PQL	Practical Quantitation Limit			
<	Less than			
>	Greater than			
RPD	Relative Percent Difference			
LCS	Laboratory Control Sample			
NS	Not specified			
NEPM	National Environmental Protection Measure			
NR	Not Reported			

Quality Control Definitions				
Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.			
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.			
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.			
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.			
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.			

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

Envirolab Reference: 181765 Revision No: R00

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request.

Envirolab Reference: 181765 Page | 6 of 6

Revision No: R00