



# ASBESTOS REMOVAL CONTROL PLAN

Westmead Integrated Mental Health Complex (IMHC)

**Revision: 05**

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## 1. PURPOSE

The purpose of this Asbestos Removal Control Plan is to provide instructions on how to complete asbestos removal work safely and ensure the community is protected during the work.

Consultation on the works being undertaken will be conducted daily during the pre-start tool box talks.

## 2. INDUCTION/ TRAINING

Training and sharing of information is one of the most important elements of the ARCP. All categories of personnel employed on the Site and visitors to the Site and who may be involved in the asbestos work should be given appropriate Asbestos Awareness Training to ensure adequate awareness of the health risks of asbestos, methods of prevention and control, proper work practices, emergencies and use of personal protective equipment.

The Asbestos Awareness Training program will include, but not be limited to, the provision of information on the following:

- Health effects of exposure to asbestos
- Type and presence of asbestos in the workplace
- Roles and responsibilities under the AMP
- Location and use of the Asbestos Register
- Nature of operations which could result in asbestos exposure
- Safe work procedures to prevent exposure to asbestos fibres.
- What to do if asbestos is disturbed
- Exposure standards and control levels relating to asbestos
- Preventative and control measures
- Labelling and signage
- Asbestos monitoring program
- Purpose of exposure monitoring or health monitoring.

Training records will be maintained for each employee and visitor at the Site for the duration of the work and for five years after cessation of the work. The records should be available for inspection by the regulator upon request.

## 3. NOTIFICATION

***Note: The Office Manager will then lodge notification with SafeWork NSW. Notifications are to be made in line with the WHS Regulation Requirements and require five day's notice prior to works commencing. A copy of the approval notice must be on site for the duration of works being undertaken.***

**SafeWork NSW notification certificate reference number:** 943R-00386768-01

**The person supervising asbestos removal is**

**Direct contact number**

**Planned start date**

**28/08/2023**

**Intended completion date**

**01/12/2024**

#### 4. ASBESTOS IDENTIFICATION

<b>Type of Asbestos</b> (e.g.: Flat asbestos cement sheet, Formed asbestos cement products)		
Friable and bonded ACM in soils		
<b>Quantity of Asbestos Contaminated Material to be removed</b>		
Approx 17,000m3 of soil (containing ACM fibres)		
<b>Condition of ACM to be removed</b>		
<input type="checkbox"/> Good condition	<input checked="" type="checkbox"/> Significant weathering	<input type="checkbox"/> Unsealed
<input type="checkbox"/> Slightly weathered	<input type="checkbox"/> Fire damaged	<input type="checkbox"/> Painted
<input type="checkbox"/> Minor breakages	<input type="checkbox"/> Extensive breakages	
Additional Details: Asbestos fragments and fibres in soil matrix		
<b>Type of Removal Work</b>		
<input checked="" type="checkbox"/> Damaged non-friable asbestos <input type="checkbox"/> Vinyl floor covering <input type="checkbox"/> Asbestos cement products (e.g: flat or corrugated sheeting) <input checked="" type="checkbox"/> Other Removal of asbestos contaminated material in a soil matrix.		
<b>Provide details of the method used to isolate/enclose the removal area</b>		
<b>Type &amp; Extent of Isolation/Encapsulation:</b>	Known works have been capped and survey provided, however expected to find area's of uncapped with asbestos due to site history.	
<b>Location</b> (Tick the appropriate boxes)		
<input checked="" type="checkbox"/> Below ground in trenches	<input type="checkbox"/> Enclosed in ducts	<input checked="" type="checkbox"/> Outdoors and exposed to weather
<input checked="" type="checkbox"/> Outdoors but protected	<input type="checkbox"/> Indoors	
Additional Details: Asbestos in soil buried in area approximately in the 60's, asbestos in soils under capping within a defined containment cell		
<b>Asbestos Location &amp; Amount</b>		
<b>Specific Location of Asbestos:</b> Assumed as buried within all excavation areas/bounded by site boundaries.		
<b>Amount to be Removed:</b> <b>Milestone 1</b> – 700m3 of soil (containing ACM fibres) <b>Milestone 2-4</b> – 16,300m3 of soil (containing ACM fibres)		
<b>Personal Protective Equipment</b>		
<b>Items</b>	List personal protective equipment; e.g.: disposable overalls, type of masks etc. (tick box / List personal protective equipment; e.g.: disposable overalls, type of masks etc. (tick box / as applicable):	

**Type of Asbestos** (e.g.: Flat asbestos cement sheet, Formed asbestos cement products)

Friable and bonded ACM in soils

- Protective clothing       Full face air supplied       Protective gloves  
 ½ face respirator       P2 mask \*       Appropriate safety footwear  
 Other (please specify); disposable overalls, boot covers

**Excerpt from AMP rev01 Item 4.6 Personal Protective Equipment**

<b>Type/Duration of Work</b>	Any long term or repetitive works or any works in situations where ACM impacted material is being disturbed (excavation, drilling etc). Examples: asbestos removalist, labourer and piling assistants.	Short term (<15 minutes), isolated (not repetitive) works in situations where no ACM impacted material is being disturbed (no excavation, drilling etc). Examples: run an electricity cable above ground and engineer inspections.	Plant operators (<10 minutes), operators accessing vehicles or conducting greasing of the excavator arm.
<b>Respirator</b>	Half face respirator with P2/P3 filter as a minimum	Disposable P2 respirator as a minimum	Disposable P2 respirator as a minimum
<b>Coveralls?</b>	Type 5, category 3 disposable coveralls required – Light blue/Orange (or not-white) in colour.	Type 5, category 3 disposable coveralls required – Light blue/Orange (or not-white) in colour.	Type 5, category 3 disposable coveralls required – Light blue/Orange (or not-white) in colour, unless vehicles parked adjacent to the exclusion zone entry point.
<b>Footwear</b>	Disposable booties/boot covers OR Dedicated steel capped gumboots	Disposable booties/boot covers OR Dedicated steel capped gumboots	Disposable booties/boot covers
<b>Gloves</b>	Disposable latex/nitrile gloves OR	Disposable latex/nitrile gloves OR	Disposable latex/nitrile gloves OR

## 5. EMERGENCY PLANNING

Emergency			
The First Aid officer on site is	Roberts Co. supplied first aider (Tony)	Contact Number	0419 499 218

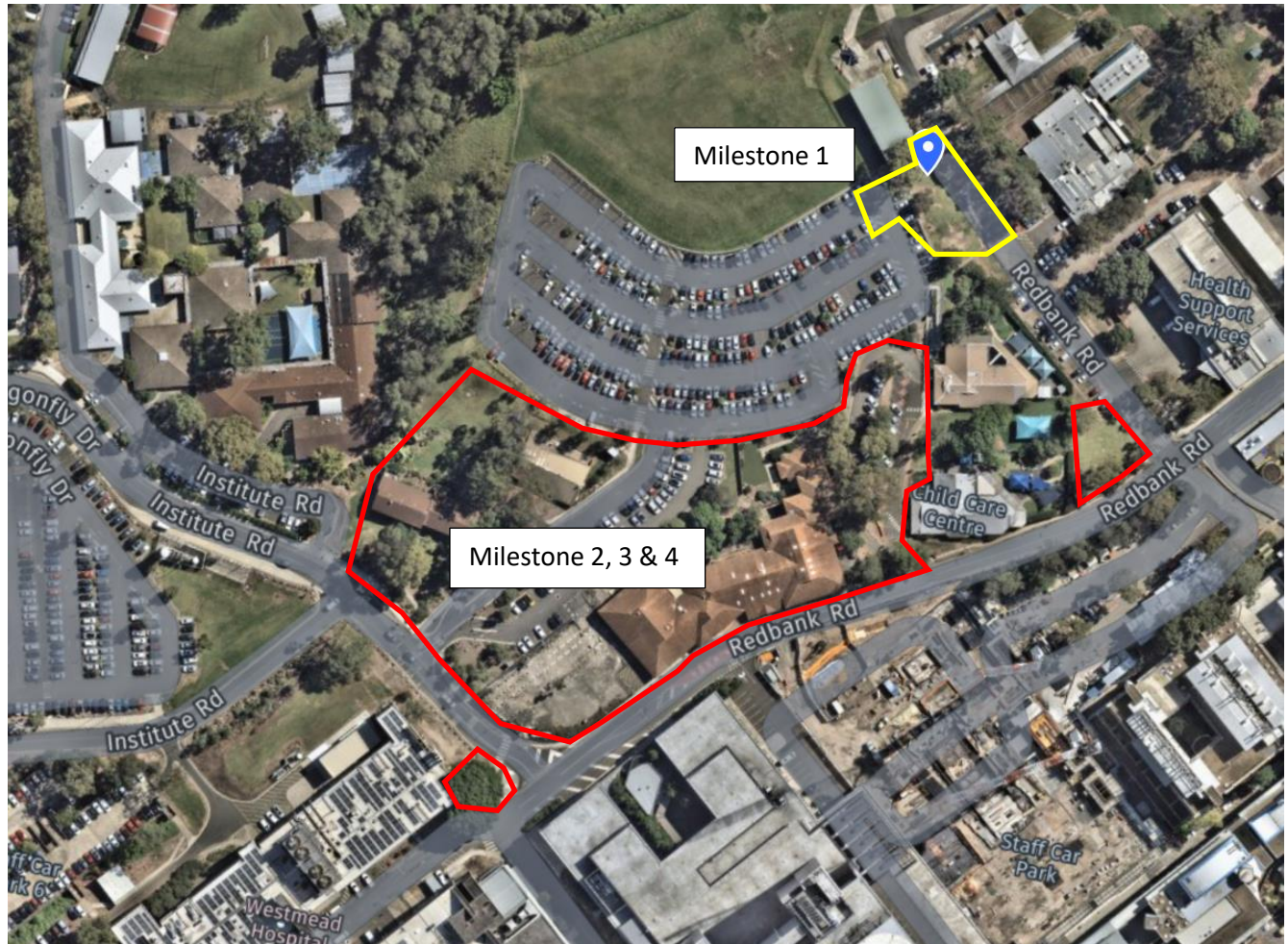
Emergency contact details displayed on site	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
All site workers are trained in emergency response	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
<p>The following emergency response equipment is held on site (Provide details)</p> <ul style="list-style-type: none"> <li>• First Aid Kit</li> <li>• Portable AED</li> <li>• Running water onsite</li> </ul>		
<p>The following have been identified as potential emergency situations (provide details)</p> <p><u>External emergencies in close proximity of works (Careflight, LHD fire etc.)</u></p> <p>Response:</p> <p>Where practicable exit through decontamination, in the event of emergency requiring immediate exit from work area all staff to walk to emergency muster location ensuring adequate separation from public/other workers. Members in PPE to muster a minimum of 20 meters away from other personnel.</p> <p><u>Critical injury to worker within works zone:</u></p> <p>Response:</p> <p>RCo designated first aider to be contacted immediately and first aid/AED/oxygen kit to be deployed. First Aider to don minimum PPE such as mask, gloves and booties and enter ACM works zone. Where practicable, staff working in ACM work area to maintain clear separation from injured party and designated first aider unless directed to assist in emergency response.</p> <p><u>Uncontrolled release of hazardous materials</u></p> <ul style="list-style-type: none"> <li>• ACM contaminating outside of delineated area</li> <li>• Air Monitor readings exceeding normal limit</li> </ul> <p>Response: Stop of works, notification of relevant stakeholders, extension of fencing and delineation to contain new contamination area. Workshop of remediation methods with hygienist for remediation methodology. Review of controls with hygienist prior to commencement of additional works.</p>		



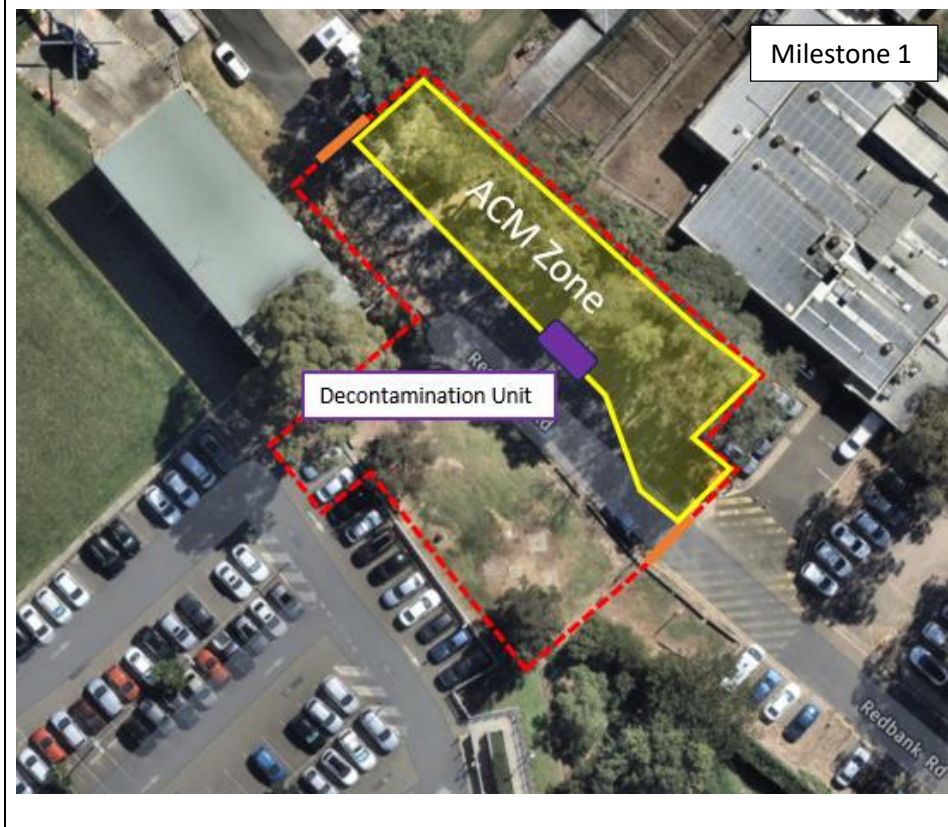
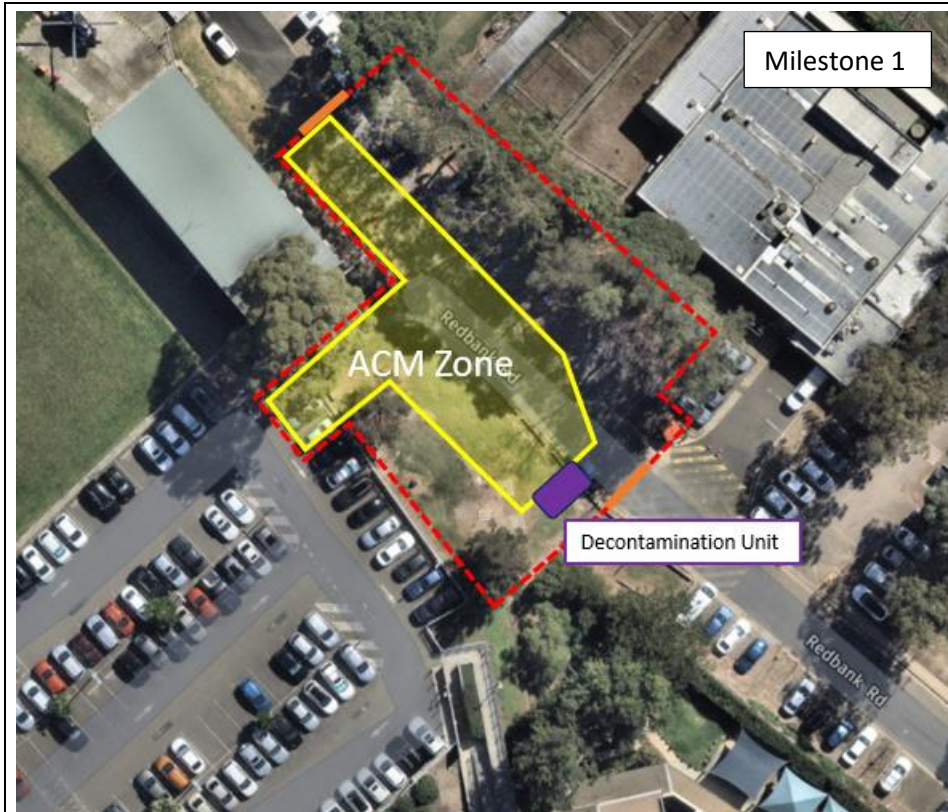
## 6. BOUNDARIES AND BARRICADES

### Delineation

Asbestos work area









Milestone 4



It will be defined by the following signage (type and locations) and barricade (type & location)



Location of signage every 30m around perimeter of work zone



**CAUTION ASBESTOS**

Tape or clean delineated signage at minimum of 10m (reasonably practicable) from perimeter of work zone.

Decontamination areas marked by purple rectangle, these will be near the exit gate and will be set up as an area to decontaminate personnel dispose of coveralls and other disposable PPE.

Exclusion zone will be established with fencing. Along the fence line black plastic will be placed along the inside to separate ACM work zone from rest of clean site.

Asbestos will be stockpiled and managed with suppression controls (wet down, geofabric or polymer binder applied) until load out is conducted.

## 7. AIR MONITORING PROGRAM

Air Monitoring	
Air monitoring will be conducted by:	JBS&G LAA
Competent person engaged to plan and conduct air monitoring	JBS&G
Contact details of the competent person	Milad Noujaim; 0401 230 032
The following air monitoring will be conducted	<p>Air monitors to be established at all four (4) boundaries of the site.</p> <p>The number, quantity and location of the air monitors is subject to Licensed Asbestos Assessor (LAA), key risk items highlighted will be that of Careflight operations base egress as well as Redbank Rd Child Care.</p> <p>Perimeter asbestos air monitoring to be undertaken noting the potential for friable asbestos to be disturbed during the works and with consideration to SafeWork NSW regulations.</p>
Number and frequency of testing	<p>4x Monitors, Per site, for duration of works</p> <p>Number of monitors will be adjusted according to hygienist advice.</p>

## 8. ON SITE MANAGEMENT OF REMOVED ACM

Complete the following information	
Removed ACM will be held on site for more than one working day	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
<p><b>Note:</b> ACM material will be excavated and stockpiled, the material will have continual suppression until such time that stockpile is deemed sufficient for load out. Stockpiles that are to remain in same place and undisturbed by works for more than 2 days will have Polymer dust suppressant or geofabric pinned to them.</p>	
Type of storage containers	N/A
Dedicated location within the removal area	TBA

## 9. REMOVAL METHOD

Detail the planned methodology for removing the ACM:

**Note: Refer to Integrated Mental Health Complex Redevelopment Asbestos Management Plan (JBS&G) and detailed methodology attached**

- Establish exclusion zones and signage.
- Have a decontamination area where overalls and masks are to be removed and disposed
- Establish air monitoring.
- Asbestos supervisor available during removal works
- The ACM will be wet down prior to removal and during removal
- The ACM will be load into trucks by excavator
  - Excavator to be positioned to minimise ACM on tracks
  - Excavator and truck to keep all windows and door closed throughout ACM removal process
  - Excavator to have reverse cycle air conditioning on whilst working in ACM zone
  - Trucks to be loaded on geofabric loading zone
- Truck covers load before ACM exclusion zone
- Following removal, a licensed asbestos assessor will give clearance that the area is free of ACM
- Air monitoring is undertaken during the asbestos removal work and results posted day after to personnel onsite and stakeholders.
- Site must remain isolated, barricaded and signposted against unauthorised entry until a clearance has been granted by the hygienist.



## 10. TOOLS AND EQUIPMENT

**Warning:** High speed abrasive power or pneumatic tools such as angle grinders, sanders, saws and high-speed drills **must not** be used when removing ACM.

The following tools and equipment will be used during the removal of ACM:

Equipment	
<input checked="" type="checkbox"/> Hand tools	<input checked="" type="checkbox"/> Spray equipment
<input checked="" type="checkbox"/> Powered equipment (excavator)	<input type="checkbox"/> Vacuuming equipment
<b>Maintenance Statement</b> All tools and equipment used in the removal of ACM are inspected before all removal work and inspected and cleaned following all removal work and at least once every 7 days when in continuous use.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>

## 11. Encapsulating for ACM Removal

Encapsulating	
Complete encapsulation of the work area is required?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
If Yes, then describe how the enclosure will be constructed:	
<del>If Yes, then describe the negative pressure exhaust equipment to be used in conjunction with the enclosure:</del> Make:..... Model:..... Rating:.....	

## 12. DECONTAMINATION

### Decontamination of ACM Removal Area

#### Decontamination – Removal Area

The following decontamination methods will be applied to the removal area:

- Stockpiles to be added to until stockpile sufficient to load out. If material is to be left for extended period of time geofabric or polymer dust bloc to be sprayed to manage stockpile.
- After removal of material to stockpile, work area's are to be gradually signed off by hygienist as clear of ACM and final sign off will be upon removal of stockpile from site.

Staff decontamination

1. Asbestos removal area: Remove debris from outer layer coverall. Remove gum boots (if worn) and leave boots (upside down) inside the asbestos removal area. Go to first decontamination chamber (i.e. dirty decontamination area)
2. Dirty decontamination area: With the respirator on, remove protective clothing including boot covers (if worn) and place in asbestos waste bags. Wipe down face and head with wet wipes (disposing in ACM bag), only once clean remove the respirator. Thoroughly clean hands, fingernails, face, head and respirator. Store respirator in a suitable container in the clean decontamination area. Move to the clean change area
3. Clean change area: Change into clean clothing and exit decontamination area.

### Decontamination of Equipment, Tools and Plant

#### Decontamination – Tools, Etc

The following decontamination methods will be applied to the tools, equipment and plant:

1. Asbestos removal area: Tool and plant (Excavator bucket) washed with water onto geofabric. Asbestos supervisor to inspect and confirm clean down of machine has been completed.
2. Excavator operator to remain within cab with windows/doors closed throughout clean down process.
3. Geofabric utilised to be disposed of in plastic goose-necked bags and disposed at licensed facility.

Only once tools and plant have been confirmed as decontaminated are ground staff to commence personnel decontamination procedure.