FRIABLE ASBESTOS REMOVAL CONTROL PLAN

1. Timing of Removal Work:	**Planned Start Date**		**Intended Completion Date:**
Date of planned notification to WorkSafe: **(must give 5 days minimum notice of all Class A Removal)**			

2. Emergency Planning: (trained first aider(s) on site):		☑		☐		☐		☑			

Name:		**Contact #**		**Name:**		**Contact #**	
Name:		**Contact #**		**Name:**		**Contact #**	
Name:		**Contact #**					

Emergency Contact Services

Name	Contact #	Name	Contact #	Name	Contact
Emergency Services	**111**	**Taranaki Base Hospital**	**06 753 6139**	**WorkSafe NZ**	**0800 030 040**

All site workers are trained in emergency response		☑	**Yes**	☐	**No**
Emergency response equipment is indicated on the site plan		☑	**Yes**	☐	**No**

The following has been identified as potential emergency situations (attach further details if needed):

Emergency	Controls to Manage Emergency
Escape of asbestos fibres	Site Supervisor **will stop all work and immediately** implement **decontamination** procedures. Site Supervisor will: **1.** Seal enclosure to avoid further escape **2.** Evacuate the area following normal safe work practices. **3.** Secure area using demarcation and warning signs. **4.** Determine the extent of the contamination by carrying out leak monitoring and or swab sampling **5.** Advise WorkSafe NZ if fibre count is at or above 0.02fibres/mL
Fire	Sound audible alarm – Yell **Fire, Fire, Fire**, Exit facilities by the fastest means possible – Use Dedicated Emergency Stanley Knife **1.** **Contact Emergency Services – dial 111** – ask for FENZ – advise that site has asbestos. **2.** Account for all staff in pre-determined safe area – Site entrance. **3.** Do not remove contaminated clothing or breathing apparatus at this time **4.** Once outside of removal area, sound a vehicle horn, three long continuous blasts **5.** All personnel are to assemble at the site entrance **6.** Do not re-enter area until cleared by FENZ. **7.** Site Supervisor to implement decontamination procedures:

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Emergency	Controls to Manage Emergency
Fire cntd	Site Supervisor to implement the following decontamination procedures upon arrival and advice by Emergency Services: **1.** Wet down overalls by spray hose or other available source **2.** Leave mask on **3.** Treat any injured persons **4.** If possible, remove overalls inside out and place in area for packing up **5.** Isolate all equipment and/or clean when clear work area can be established or use the already prepared decontamination area set aside if possible **6.** Remove masks only when the likelihood of contamination has been completely minimised or removed **7.** Decontaminate site when possible
Civil Emergency - earthquake	**1.** Where possible, Drop-Cover-Hold **2.** Exit building if safe to do so. **3.** Do not decontaminate until safely outside. **4.** Watch for falling materials. **5.** Gather at safe assembly point. **6.** Check all staff are accounted for. **7.** Apply first aid if possible. **8.** Contact Emergency Services if available.
Unconscious Worker	If a worker collapses inside the enclosure: **1.** Remove patient from enclosure as quickly as possible. **2.** Do not decontaminate at this stage. **3.** Once outside conduct ABC's. **4.** Summon help including FENZ **5.** Whilst rendering first aid attempt to minimise dust release on all staff **6.** Notify Office immediately **7.** Decontaminate staff when time permits.
Fall from Height or height rescue	Ensure rescue device such as EWP or crane available. **1.** Do not stand on roofing materials **2.** Consider working from EWP or Crane Cage **3.** Ensure all staff are trained in working at heights. **4.** Consider Weight spreaders. **5.** Contact Office immediate if incident occurs. **6.** Render first aid if possible.

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Site Plan:	☑	See below	☐	Attached as separate plan	☑	As per Asbestos Report	☐	Photo of site attached

6. Control of Non-Asbestos Hazards: The following risks have been identified during the planning stages of the asbestos or ACM removal

Risk	Potential Harm	Controls to manage the risks
Manual Handling	**Strains, sprains, bodily injury**	2 people unloading/lifting equipment of heavy items. Allow for controlled movement– push pull method, conduct warm up stretches. Use correct manual handling techniques
Uneven, wet or slippery surfaces	**Slip, trip or fall to lower level**	Practice good housekeeping; keep work area and walkways clear. Check tread on boots if surfaces are wet – ensure good grip
Electricity	**Burns, shock, fatality**	Power to be isolated by licenced electrician. All electrical outlets in removal area must be isolated – use a PSOA No worker is to touch or damage existing power. Low-speed, battery-powered tools that can be used with wet methods for dust control may be used when manual tools are unable to provide enough force to remove the asbestos. Fit battery-powered tools with local exhaust ventilation (LEV) dust control hoods wherever possible. If LEV cannot be attached and other dust control methods are unsuitable, the asbestos worker should use shadow vacuuming techniques.
Unauthorised entry	**Exposure to asbestos fibres**	Barriers and signs to be erected. If on site and unauthorised member of public or visitor enters site – all work **must stop** until person/s are removed to safe area.
Poor communication	**Exposure to asbestos or other hazards**	All parties on site to communicate hazards and controls at induction and again if any person late to site must be inducted and signed onto the toolbox meeting record. Hazard boards to be used. No home/property owners or unauthorised workers on site
Vehicles on site	**Inhalation of fumes, struck by or struck against vehicle**	Fully maintained and warranted vehicles with appropriately licensed and competent operators All persons on site must remain in line of the sight of the vehicle operator at all times Person guiding truck/vehicles onto site must remain in drivers vision at all times – all other persons to be in a safe zone 4 to 5 metres away from working area Driving to and from site observe all NZTA rules regarding transport – use 12 second rule when driving
Plumbing and Drainage and/or Gas Services	**Damage to services on site**	Inspections must be carried out by a Plumber, Contractor, Licensed Gas Fitter to ensure no services can be impacted by the removal of ACM's. All staff are to be aware that water supplies will be maintained during Operations.
Pandemic – Transmittable Disease or Virus	**Fatality – severe respiratory failure**	Follow all controls for Levels 2 & 3 & 4 shown on the Risk & Hazard Analysis – HSE1 – ID – 000 – Pandemic Infectious Diseases under Controls Section together with all instructions in the COVID-19 Controls Plan – copy held in your COVID-19 Information Pack. At all times follow Construction Protocols for Hygiene and Cleaning.

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Personal Protective Equipment (PPE and RPE) – must be worn at all times throughout the removal of asbestos

Safety boots, full face positive pressure mask, gloves, disposable overalls and booties (also refer to Asbestos Equipment List- attached)

Workers have received appropriate training for PPE and RPE use:	☑	**Yes**	☐	**No**
Workers have received information about the health risks of licensed asbestos removal work and health monitoring requirements	☑	**Yes**	☐	**No**

Staff are aware that they will be working with high concentrations of asbestos fibres in the materials being removed. Outside the respirator area, dust levels must be kept below the allowable fibre levels of 0.01 fibres per millilitres of air. Thorough encapsulation is required.

7. REMOVAL: The following planned removal steps are set out below (also refer to Asbestos Removal SOP attached)

1.	**Induct all staff on risks and hazards associated with Asbestos and safe work practices**
2.	**Advise all those working on site where fire extinguishers and First Aid Kits are located (in (insert Company Name) vehicles).**
3.	**Ensure all staff are aware of the safe assembly point in the event of an emergency – State where meeting point is.**
4.	**Set up enclosure area, removal area, signs barriers and hazard board – refer to Site Plan attached.**
5.	**Assessor to install air monitors at appropriate points –to ensure that any potential asbestos fibre escape is captured and does not exceed the limits (refer to Section 12 below).**
6.	**Set up NPU's capable of conducting 8 air exchanges every sixty minutes – creates and maintains a negative pressure within an** asbestos **removal enclosure and minimise dust disturbance - indicated on location plan and map.**
7.	**Set up three stage decontamination unit - show on location plan and map attached.**
8.	**Check all staff in removal area are wearing correct RPD and PPE before commencing removal**
9.	**Commence removal of asbestos – Refer to Tools and Equipment (#8) below detailing method, tools to be used, fixings and refer to Management and Disposal of Asbestos (#10) to detail how waste will be collected and disposed of.**
10.	**All waste is to be placed in the designated area marked on the map. Waste is to be secured against potential fibre release either by locking the container that will transport the waste or removing off site to a secure area pending disposal to the approved special waste facility. NB Waste will be removed and disposed of as soon as reasonably practicable. Waste will be contained inside the enclosed area until it has all been bagged, then it will be removed to a trailer for transportation to the disposal site.**
11.	**NPU's must be left on continuously until air monitoring has been commenced.**
12.	**Clean all equipment that has been used in removal of asbestos**
13.	**Assessor to conduct tests and carry out a final clearance monitoring**
14.	**Once clearance results have been received and clearance is issued, entry into enclosure can be authorised. Dismantle plastic enclosure and associated equipment. Treat as asbestos waste.**
15.	**Assessor to issue a Clearance Certificate.**
16.	**Remove remaining barriers and signage.**
17.	**Complete a final check of site to ensure nothing is left behind.**
18.	**Take remaining waste to Special Waste Facility for disposal as per regulations.**
19.	**Hold copy of waste docket disposal on file.**

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7. TOOLS & 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 asbestos or ACM. (S. 18 (3) of the Regulations allow use of power tools in certain circumstances)

All tools and equipment that can be used when removing asbestos or ACM are detailed on the attached document – HSE1 – Build – 001 - Asbestos

VACUUM CLEANERS:	Make		Model		Last Test Date:	

HAND TOOLS:	☐	Pry bars	☐	Hammers	☐	Screw drivers	☐	Mobile Scaffold	☐	Jemmy bars	☐	Tack Rags	☐	Tungsten Scraper	☐	Knives	☐	Staple Remover

OTHER TOOLS (not listed above)		POWERED EQUIPMENT	5 KVW Inverter generator, Lighting, Cut off Saw (throttle control) NPU's

REMOVAL METHOD TO BE USED: (for managing waste refer to #11 below)	Wet	☑	Dry	☐	Injection	☐	FIXINGS / MATERIALS (holding asbestos containing material onto structure)	e.g. Screws, nails, insulation wrapping, paint (state below)

SATURATION EQUIPMENT	Airless sprayer, spray bottles, water, detergent	OTHER:	Potential - use a grinder with a shroud connected to a hepa filter vacuum

8. EQUIPMENT MAINTENANCE:

All tools and equipment used in removing asbestos or ACM are inspected before all removal work		☑	Yes	☐	No
All tools and equipment used in removing asbestos or ACM are inspected and cleaned following all removal work		☑	Yes	☐	No
All tools and equipment used in removing asbestos or ACM are inspected and cleaned at least once every 7 DAYS when in continued use		☑	Yes	☐	No
ENCLOSURE:	Complete enclosure of the work area will be required:	☑	Yes	☐	No
	Enclosed area is displayed on site map/the location is described	☑	Yes	☐	No

The enclosure will be constructed as follows: provide an overview of the size shape and construction method to be used for the enclosure: (Provide additional pages as necessary)

Refer to Location Plan and photo attached

The following NPU's will be used in conjunction with the enclosure:

Make		Model:		Standard:		Make:		Model:		Standard:	

Other Details:	

Smoke testing should be conducted prior to use and at the following intervals to confirm the integrity of the enclosure. Keep records of these tests.

Frequency of testing:	All day monitoring and checking of testing
Person(s) responsible for conducting and recording the tests:	

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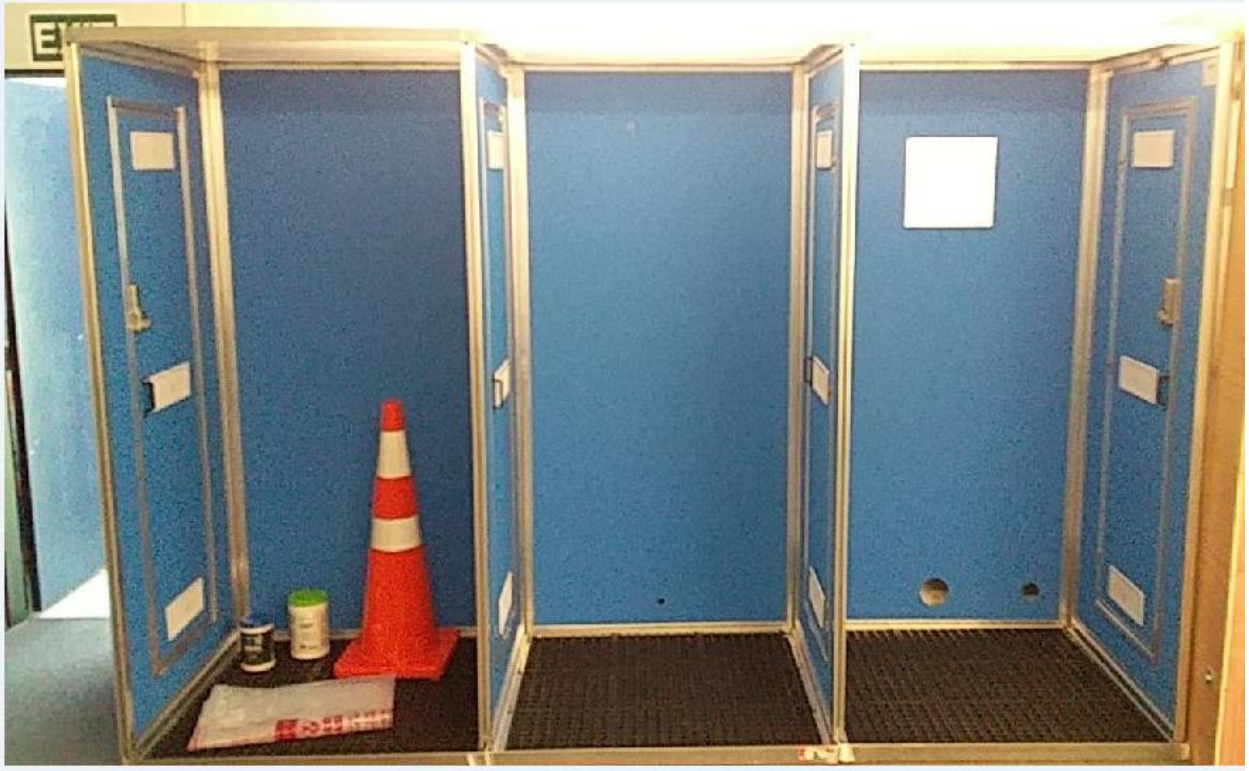
10. Decontamination Facilities: describe the decontamination facilities that will be interconnected or used with the enclosure (include decontamination of tools, plant or equipment, reusable PPE, people, removal area, contained waste) – see picture below



The hygiene facility is a three-stage unit with one shower for 4 operational staff plus one supervisor. Water will be supplied from the existing system and fed through the containers waste water management system which is connected to the shower stall.

Tools will be cleaned inside the enclosure and placed into labelled secured containers. The containers will be cleaned and passed through the waste transit facility. Only those authorised to be on site may use the hygiene facility.

All other tools are to be secured in polythene bags which will be goose necked and cleaned prior to passing throughout the waste transit facility.

Waste receives must wear full PPE and minimum P2 respirators with P3 filter. Paper masks are not acceptable RPE

Refer to attached location plan / map as to where decontamination unit will be located on site.

Example Beacon 500 NPU - face of the unit which has the taped in pleat filter. This filter should be installed in the up and down pleat formation and must be taped against the virgin 200 micron polythene. No gaps should be present as this unit will pull the air towards itself.

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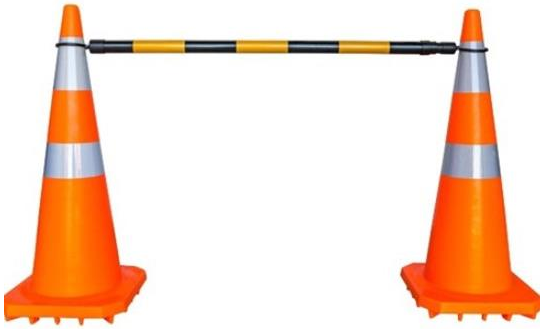
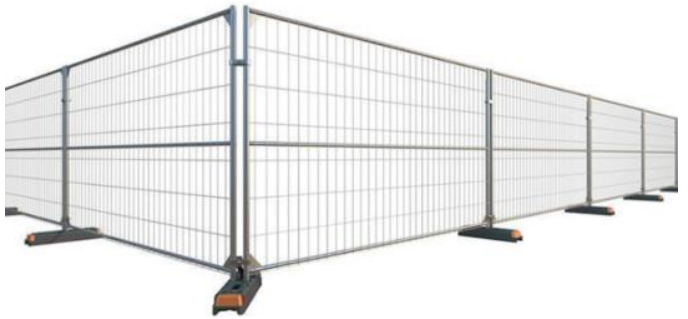
Other control measures – the following additional controls will be put in place to contain asbestos within the designated work area





Signage and barrier fencing will be used to restrict entry to asbestos removal area depending on removal site requirements.
Differential Air Monitor – refer to Site Plan attached
Personal Air-Monitor Pumps (if required)
Supplied by Assessor

11. Management and Disposal of Asbestos Waste:

Detail how asbestos waste will be collected: (e.g. at source or fall to ground onto secondary drop sheet).				
Removed (waste) asbestos or ACM will be held onsite for more than one working day – inside the enclosure.	☑	**Yes**	☐	**No**
Person responsible for safe asbestos waste storage on this site:	**Supervisor**			
If yes – detail how the ACM will be stored, including the type of storage containers to be used and the location for stored waste within the removal area:				
Waste is to be removed off site and if it has to be stored, must be stored in Insert company name secured container until such time as we have approval time and date from Special Waste Facility at Colson Rd NP. **NB –** Waste will **only be** stored in the event that Insert company name is unable to deliver to Special Waste or Transfer Station Facility –. Waste will be stored in hazi-bags inside the enclosure until such time as entire job is finished				
Asbestos will be stored in a labelled, sealed hazi-bags before removing from the site	☑	**Yes**	☐	**No**
All asbestos waste will be stored in the designated location for asbestos waste on site	☑	**Yes**	☐	**No**
Used, disposable PPE and RPE will be stored in a labelled, sealed hazi bags before removing it from site	☑	**Yes**	☐	**No**

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12. Air Monitoring and Clearance: - monitoring points are identified on the location map/plan attached					
Air monitoring programme: The following air monitoring will be conducted: - examples in red					
During removal: (control monitoring) number and frequency of testing:	**AirBox – V8 Low Flow - set to run all day at 4000mL/min – 2 monitoring points**				
After Removal: number and frequency of testing	**AirBox – V8 Low Flow - set to 7000mL/min**				
Voluntary personal monitoring will be used to reinforce appropriate controls used during the removal process.	☐	**Yes**	☑	**No**	

Sample Results for Air Monitoring – if carried out must be:

Action Level		**Control**	**Action**
1.	**< 0.01 fibres/ml (trace level)**	**No new control measures necessary**	**Continue with existing control measures**
2.	➢ **0.01 fibres/ml but < 0.02 fibres ml**	**Investigate** **Implement** **Prevent**	**Investigate the cause** **Put controls in place to prevent exposure** **Prevent further fibre release**
3.	➢ **>0.02 fibres/ml**	**Stop** **Notify** **Investigate** **Put controls in place to prevent exposure and further asbestos fibre release** **Conduct further air monitoring** **Retain records for five years**	**STOP Class A Removal** **NOTIFY WorkSafe asap of notifiable incident – include air monitoring results** **INVESTIGATE – conduct a thorough visual check of enclosure (if used) and associated equipment in consultation with all asbestos workers. Review controls** **CONTROLS – extend the isolated/barricaded area around the work area/enclosure as far as reasonably practicable (until fibre levels are at or below 0.01 fibres/ml** **Wet-wipe and vacuum the surrounding area, seal any identified leaks (e.g. with expandable foam or tape** **Smoke test the enclosure until it is satisfactorily sealed** **CONDUCT further air monitoring – DO NOT re-start until fibre levels are at or below 0.01 fibres/ml – retain records for 5 years**

Details of the Asbestos Assessor or competent person engaged to plan and conduct air monitoring and clearance:							
Name		**Licence No.**		**Expires**			
Contact Details:		**Contact Details**	**Ph: | M:**				
After Removal	**Monitoring points identified on site map**		☑	**Yes**	☐	**No**	

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Declaration and Sign Off:					
I declare the information in Part A of this plan is accurate and to the best of my knowledge:					
Signed By:		**Date**			
	Insert Company Name Nominated Supervisor				
On completion of this section, a copy of the plan and related documents have been supplied to:					
PCBU who commissioned the removal		☑	**Yes**	☐	**No**
Assessor		☑	**Yes**	☐	**No**
Nominated Supervisor		☑	**Yes**	☐	**No**

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Part B – TO BE COMPLETED AFTER REMOVAL AND CLEARANCE:					
1. Timing of Removal Work:					
Start Date:		**Intended Completion Date:**		**Notified to WorkSafe:**	
Copy of notification attached :	☑	**Yes**			

Informing Parties and People – in addition to the information recorded in Part A the following people or parties were also informed about the asbestos removal and start date:

Entity	Name and Position	Organisation	Address	Phone/Email

2. Respirators (RPE)				
All workers wearing positive pressure respirator (RPE) were clean-shaven:	☑	**Yes**	☐	**No**
(Where applicable): the following RPE was provided to workers who could not wear positive pressure RPE:				

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3. Disposal of Asbestos Waste:								
PCBU engaged to transport waste:	☑		☐	**Other:**				
Disposal Site was:								
Total Quantity and dimensions of asbestos waste removed:								
Copies of Waste disposal dockets, permits or other paperwork received					☐	**Yes**	☐	**No**
4. Clearance								
Did the asbestos removal area pass the clearance inspection?					☐	**Yes**	☐	**N/A**
Copy of Clearance Certificate Received?					☐	**Yes**	☐	**N/A**
5. Declaration and Sign Off:								
I declare the information in Part A of this plan is accurate and to the best of my knowledge:								
Signed By:				**Date**				
	Insert Company Name Nominated Supervisor							
On completion of this section, a copy of the plan and related documents to:								
PCBU who commissioned the removal					☑	**Yes**	☐	**No**
Other (state):					☑	**Yes**	☐	**No**
The plan should be made available to the PCBU with management or control of the workplace, workers and their representatives, and home occupants (as applicable)								