

# Asbestos in Grounds Management Plan

Hazelbrook Public School (3854),  
Hazelbrook, NSW

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## Definitions

Item	Description
ACM	Asbestos containing material
Air Monitoring	<p>Air monitoring involved sampling airborne asbestos fibres to assist in assessing exposure to asbestos and the effectiveness of implemented control measures. It must be conducted in accordance with the Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Dust, 2nd Edition [NOHSC: 3003 (2005)].</p> <p>It is a DoE requirement that air monitoring is undertaken when any form of asbestos disturbance works is undertaken.</p>
AMD	Asset Management Directorate (DoE state office)
AMP	Asbestos Management Plan
AMU	Asset Management Unit (DoE regional office)
Asbestos	Defined as the fibrous form of mineral silicates; belonging to the serpentine and amphibole groups of rock-forming minerals, including actinolite, amosite, crocidolite, chrysotile, anthophyllite, tremolite, or any mixture containing one or more of these.
Asbestos Assessor	A person who is SafeWork NSW licensed in accordance with the WHS Regulation for air monitoring, clearance inspections or the issuing of clearance certificates for Class A asbestos removal work.
Class A Licensed Asbestos Removalist	As per Part 8.10 of the WHS Regulation, a contractor, SafeWork NSW licensed to remove all types and quantities of asbestos.
Contaminated Land Management Act	Contaminated Land Management Act 1997
Contaminated Land Management Act	Contaminated Land Management Regulation 2013
Class B Licensed Asbestos Removalist	As per Part 8.10 of the WHS Regulation, a contractor, SafeWork NSW licensed to remove any amount of non-friable asbestos or ACM.
Competent person	<p>For a clearance inspection under clause 473 of the WHS Regulation – A person who has acquired through training or experience, the knowledge and skills and is able to carry out a clearance inspection:</p> <ol style="list-style-type: none"> <li>a certification in relation to the specified VET course for asbestos assessor work, or</li> <li>a tertiary qualification in work health and safety, occupational hygiene, science, building, construction or environmental health.</li> </ol>
DoE	Department of Education
Facility manager	Person with responsibility for the DoE Facility or a suitably appointed delegate
Fibro/Fibrous cement	Cement based building material containing reinforcement of either asbestos or non-asbestos fibres. Trade names include but are not limited to Super Six, Hardiflex, Hardiplank and Villaboard.
Friable asbestos	Any material that contains asbestos and is in a powder form or can be crumbled, pulverised or reduced to powder by hand pressure when dry.
Hygienist	Note: for the purpose of this plan, the hygienist will also be a competent person / asbestos assessor / SafeWork NSW accredited licensed asbestos assessor as defined by the WHS regulation and selected from DoE hygienist panel.
Hygienist panel (contract)	A Public Works contract that provides a panel of three contractors for the supply of occupational hygienist services to DoE for the management of assets to ensure compliance with the relevant legislation, including the NSW Work Health and Safety (WHS) Regulation 2017, particularly as this related to asbestos.

Item	Description
Licensed asbestos removalist	Means a person conducting a business or undertaking who is SafeWork NSW licensed under the WHS Regulation to carry out class A or class B asbestos removal work.
Non-friable asbestos	Means material containing asbestos that is not friable asbestos, including material containing asbestos fibres reinforced with a bonding compound.
NSW EPA	New South Wales Environment Protection Authority.
Permit to work	A Permit to work authority will need to be issued to and signed by the contractor, acknowledging presence of asbestos containing materials in the work area/s identified in the register prior to commencing work. The contractor is to indicate the control measures to be used. Permit to work authorities will only be issued by the DoE Facility Manager.
PCBU	Person conducting a business or undertaking.
POEO	Protection of the Environment Operations (POEO) Act.
SSAMP	Site specific Asbestos Management Plan; also known as Asbestos in Grounds Management Plan.
WHS Act	NSW Work Health and Safety Act 2011
WHS Regulation	NSW Work Health and Safety Regulation 2017

## 1.0 Introduction

### 1.1 Background

Since 2003, the NSW Department of Education (DoE) has had a separate Fibro in Grounds program to address school sites that have grounds asbestos related issues, which typically include types such as non-friable asbestos containing fibrous cement fragments.

Information detailed in this Site-Specific Asbestos Management Plan (SSAMP) has been directly sourced from the following previous SSAMP, provided by the DoE:

- Asbestos in Grounds, Asbestos Management Plan, Hazelbrook Public School, Hazelbrook, NSW (2171479A PR\_6945), Parsons Brinckerhoff Australia Pty Limited (PB), March 2013 (SSAMP, 2013).

Background information for the site, directly quoted from SSAMP, 2013, is summarised in **Appendix C, Table C1**.

### 1.2 Scope

AECOM Australia Pty Ltd (AECOM) was engaged by NSW Department of Education (DoE) to update this (SSAMP) for the Site, Hazelbrook Public School (3854), Hazelbrook, NSW.

The SSAMP has been updated to address DoE's obligations under the NSW Work Health and Safety Act 2011 and NSW Work Health and Safety Regulation 2017 as it relates to the presence of asbestos in grounds, by managing and minimising asbestos related health risks to personnel working on or visiting the site.

This SSAMP is to be read in conjunction with any existing asbestos register for the site, associated asbestos reports for the Site (including previous reports) and the overarching Asbestos Management Plan (AMP) for NSW Government Schools.

### 1.3 Objectives

The SSAMP details the approach to be taken by the DoE in managing asbestos in grounds by documenting procedures designed to minimise the risk of exposure to asbestos of all personnel on the site, including all DoE personnel, teaching staff, maintenance staff, students, maintenance contractors and other visitors.

The SSAMP contains the following information:

- Scope and limitations of the SSAMP.
- Asbestos related regulatory requirements.
- Organisational responsibilities.
- Details of in-ground asbestos containing materials (ACM) when previous ACM ground works have been undertaken - An asbestos in grounds register for already known asbestos issued detected on the site.
- Overview of the risk assessment process.
- Management of in-situ asbestos containing materials in grounds.
- Emergency response procedures.
- Safe working practices.
- Training.
- Requirements for asbestos removal.

The SSAMP should be updated where there is a reoccurrence of asbestos in grounds, when an asbestos Clearance Certificate is produced, or remediation works completed.

## 2.0 Regulatory Framework

This SSAMP has been developed in accordance with the following applicable legislation and codes of practice:

- Contaminated Land Management Act 2008.
- Contaminated Land Management Regulation 2013.
- NSW Work Health and Safety Act 2011.
- NSW Work Health and Safety Regulation 2017.
- How to Manage and Control Asbestos in the Workplace: Code of Practice, 2019.
- How to Safely Remove Asbestos: Code of Practice, 2019.
- NSW EPA Waste Classification Guidelines – Part 1: Classification of waste 2014.
- Protection of the Environment Operations Act 1997.

## 3.0 Responsibilities

The DoE, as a person with management or control of a workplace (PCBU) has an obligation under Part 8.3 of the NSW WHS Regulation 2017 to assess the risk of harm to the health and safety of any person arising from asbestos hazards.

Those responsible for the management of DoE facilities and Contractors are duty holders who have a duty of care. Each duty holder is required to comply with all relevant NSW legislation.

This SSAMP is designed for all duty holders where asbestos and asbestos containing materials may be present in grounds. Duty holders include those responsible for the management of DoE facilities, such as:

- School principal.
- AMU managers.
- Asset management directorate.
- Workers including voluntary staff.
- Contractors.

## 4.0 Asbestos in Grounds

### 4.1 Asbestos in Grounds Occurrences

A summary of asbestos in grounds occurrences and remediation works completed at the school (recorded in SSAMP, 2013) is provided in **Appendix D, Table D1** Where possible only 'Areas' identified in SSAMP, 2013 Site Plan have been recorded in **Appendix A**.

### 4.2 Asbestos in Grounds Register

The location, type, condition and accompanying risk assessment of asbestos identified in grounds at the Site has been taken from the SSAMP, 2013 and is recorded in the asbestos in grounds register detailed in **Appendix D, Table D2** . Where possible only 'Areas' identified in SSAMP, 2013 Site Plan have been recorded in **Appendix A**.

## 5.0 Site Management Requirements

### 5.1 Re-Inspections

In order to monitor the effectiveness of onsite management it is essential that the affected areas are regularly inspected. Visual inspections of the asbestos remedial measures should be carried out to ensure that they are maintained adequately. Re-inspections will be the responsibility of the Principal or site manager. Such inspections should occur on the following occasions:

- At three monthly intervals (e.g. a walkover of remediated areas to ensure that applications of mulch, turf, etc. have been maintained).
- As part of routine building inspections.
- After a period of prolonged heavy rain (e.g. a walkover of remediated areas to ensure that applications of mulch, turf, etc. have not been disturbed by heavy rain).
- Whenever damage or disturbance has been reported (e.g. a walkover of remediated areas to ensure that applications of mulch, turf, etc. have not been disturbed by events such as vehicle trafficking).

Should areas of exposed soil or geo-fabric be identified where previous containment has occurred or where encapsulating measures appear to be damaged or are no longer effective, then these areas should be re-covered immediately. Some remedial measures, such as added surface layers of mulch and topsoils, will require ongoing maintenance to ensure that a sufficient barrier layer is in place.

Some sites, for example those with no new occurrence of asbestos in the past 5 years, are inspected at 12-monthly intervals and/or as points indicated above.

Records of these inspections should be kept using the Site Management Requirements checklists provided in **Appendix B, Table B1** and **Table B2**.

### 5.2 Asbestos Incident Procedure

This asbestos incident procedure aims to set out the steps to be taken for asbestos management when suspected ACMs have been found in DoE Facility grounds. Scenarios where suspected ACMs may be found in DoE Facility grounds include:

- Illegal dumping of suspected asbestos waste - Dumped asbestos waste can be mixed with general builders' waste, which may include rubble and spoil.
- Single source at surface such as FCS – This is usually due to demolition of a structure containing asbestos such as a building or fence where waste has been left at the surface or buried instead of being properly disposed of.
- Extensive surface contamination – This can be as a result of imported waste materials (schools may also be situated on old landfill sites) used for landscaping or from demolition of domestic dwellings previously found on the site, with fibrous cement fragments becoming exposed over time due to surface erosion and soil dynamics, or due to demolition of structures containing ACM.
- Fill materials – Fill materials have been widely used in DoE Facilities, typically for landscaping / levelling purposes.
- Fill may also be present in building footprints. Fill generally comprises builders' rubble, typically bricks, although older fill often contains waste fibrous cement materials in addition to other building materials. Fill may also be generated on-site to build up depressions or level grounds.
- In-ground asbestos cement pipes – It is possible that asbestos cement drainage pipes may be present in-situ within the ground at DoE facilities. While such materials remain buried and in operation, they represent a low risk.



The following procedure is set out as a guide to follow where suspected ACMs have been found at the surface of DoE Facility grounds:

- Restrict access immediately.
- Do not attempt to dispose of / move material.
- Check asbestos in grounds asbestos register.
- Contact DoE AMU on 132 779 as soon as practicable and Incident Report and Support Hotline on 1800 811 523.
- DoE or their representatives will arrange inspections and testing if necessary, by consultant from DoE hygienist panel, DoE or their representatives to arrange removal of ACMs / remediation of site.
- Once asbestos removal or remediation works have been completed, an asbestos clearance certificate will be issued to return area to normal use.
- Site specific AMP is updated to enter area into asbestos in grounds register.

## 6.0 Safe Working Practices

### 6.1 General

Prior to commencing any works to grounds on any DoE facility, the asbestos in grounds register on-site must be consulted to determine if any known asbestos containing materials are present that are at risk of being disturbed (<https://education.nsw.gov.au/about-us/strategies-and-reports/our-reports-and-reviews/schools-asbestos-register>).

If documented asbestos containing materials are present in the area and may be impacted upon by the proposed works, the asbestos must be removed / encapsulated under controlled conditions prior to the commencement of any works.

If unknown materials or undocumented materials suspected of containing asbestos are encountered during works, such materials are to be treated as if they contain asbestos and any work that may impact on that material must immediately cease, pending sampling and analysis by a qualified person selected from the DoE hygienist panel. This will allow the DoE to determine what control methods are required.

### 6.2 Permit to Work

If it is determined, after consulting the asbestos in grounds register, that ACM is present in the vicinity of the planned works, a permit to work authority will need to be issued to, and signed by, the contractor. Permit to work authorities will only be issued by the DoE Facility Manager. All asbestos works must be managed by an agent of DoE, such as Department of Public Works, following approval from the directorate. All asbestos works are to be undertaken outside of school hours.

Before being issued with a permit to work, individuals will be required to read and understand this SSAMP as well as copies of asbestos removal control plans or risk assessments prepared by DoE hygienist panel members. Individuals must be aware of their legal obligations in relation to health and safety specified in the NSW Work Health and Safety Act 2011 and the NSW Work Health and Safety Regulation 2017.

Workers engaged in the removal of asbestos and asbestos containing materials will not be issued with a permit to work unless they are employed by a company holding an asbestos removal licence issued by SafeWork NSW appropriate for the type of asbestos containing materials concerned.

The permit to work formally places a responsibility for compliance with this SSAMP and the NSW Work Health and Safety Regulation 2017 on the signatories.

The permit to work is designed to ensure appropriate work practices are employed in the vicinity of asbestos containing materials. The permit to work will document what asbestos is to be removed,

encapsulated or otherwise protected, prior to the contracted maintenance or building works proceeding. The permit to work will also indicate whether other requirements such as use of personal protective equipment (PPE), the installation of barricading and airborne fibre monitoring are necessary and may provide recommendation for further consultation, sampling or investigation by a member of the DoE hygienist panel prior to permit and contract finalisation.

When a project involves a team of more than one worker, the person in charge of the team will be issued with the permit to work. That person will be responsible to ensure their workers are aware of their responsibilities. That person will also be responsible to ensure that each worker's signature appears on the appropriate section of the permit.

When work is completed, or the permit to work expires (whichever occurs first), the permit shall be signed by the contractor and returned to the DoE Facility Manager to cancel it after ensuring that a safe situation exists. The DoE Facility Manager shall review any documentation provided by the DoE hygienist panel member, such as asbestos air monitoring and asbestos clearance inspection certificates and inspect the work area to ensure that it is fit for purpose prior to returning it to normal use. The AMU can provide assistance if required.

The DoE Asset Management Directorate shall be advised immediately by any site personnel of any incidents of non-compliance with the SSAMP that have occurred.

The DoE Facility Manager will maintain a register of all permits to work that have been issued and cancelled.

It will be a condition of engagement of contractors who are required to work on-site that a permit to work be issued and cancelled as required.

### **6.3 Contractor Health and Safety**

Prior to undertaking any work that involves the removal, repair or disturbance of asbestos containing materials, a Safe Work Method Statement (SWMS) will be prepared that defines safe procedures to protect the health and safety of personnel. This statement should include the following measures, as a minimum:

- Confirmation of their review of the relevant asbestos register, asbestos removal control plan and other relevant documentation, prior to preparation of the SWMS.
- Review of risks associated with their possible exposure to asbestos or ACMs.
- All workers shall wear appropriate Personal Protective Equipment (PPE) for the work undertaken. This may include protective coveralls, gloves and safety boots.
- All workers shall wear appropriate Respiratory Protective Equipment (RPE) for the work undertaken.
- Decontamination procedures and measures (if applicable).
- Asbestos removal areas and buffer zones.
- Asbestos air monitoring samples (number and frequency).

In addition:

- A reference to all appropriate licences and insurances held by the contractor should be included.
- A reference as an additional safety measure that all works are to be undertaken outside school hours, should be included. Appropriate measures are to be included regarding this requirement.
- The Safe Work Method Statement (SWMS) should be reviewed by the Agent of DoE that engages the contractor as per the requirements of the permit to work.

### **6.4 Awareness Training**

It is best practice that DoE Asset Management personnel and Facilities Maintenance Contractors who are not likely to be exposed to asbestos but work in areas where asbestos is, or may be present, in

grounds be provided with asbestos awareness training. It is recommended that such training shall include the following:

- Overview of asbestos related legislation (State), standards and codes of practice.
- Information on the presence of asbestos in DoE Facility grounds, including the types of asbestos and typical locations where asbestos may be encountered.
- Information should be provided on the differences between friable and non-friable products.
- Highlighting the need to avoid disturbing in-situ asbestos containing materials.
- Procedures to be followed in the event disturbed asbestos containing materials are identified, or unknown materials / products suspected of containing asbestos are encountered, including the relevant point of contact within the DoE.
- Information about general methods of asbestos management and removal.
- Information about airborne asbestos air monitoring.

Asbestos awareness training is to be provided by a consultant selected from the DoE hygienist panel.

## 7.0 Asbestos Removal

A detailed and site-specific work scope and technical specification will be developed by an agent of DoE or their representative prior to the removal of ACMs from any DoE facility grounds. The removal of ACMs shall be performed by a licensed asbestos removal contractor selected from the DoE hygienist panel (i.e. the appropriate licence for the removal of asbestos issued by SafeWork NSW).

Please note that any work that involves disturbing asbestos must be administered by DoE or their representative.

It is DoE policy to engage a Class A licensed contractor as best practice for all occurrences of asbestos contaminated soil. The contractor will be engaged by an agent of DoE from a panel approved by DoE and all engagements will be according to SafeWork NSW guidelines and follow the advice of the hygienist / competent (asbestos assessor) person engaged from the DoE hygienist panel.

### 7.1 Asbestos in Grounds General Removal Procedures

All works carried out that involves disturbance of ACMs (including removal) must be administered by DoE or their representative.

All removals are to be undertaken according to:

- Contaminated Land Management Act 2008.
- Contaminated Land Management Regulation 2013.
- NSW Work Health and Safety Act 2011.
- NSW Work Health and Safety Regulation 2017.
- How to Manage and Control Asbestos in the Workplace: Code of Practice.
- How to Safely Remove Asbestos: Code of Practice.
- NSW EPA Waste Classification Guidelines – Part 1: Classification of waste 2014.
- Other relevant documentation issued from time-to-time by SafeWork NSW or NSW EPA.

Follow the advice of the hygienist / competent (asbestos assessor) person engaged from the DoE hygienist panel to conduct a risk assessment and determine the most appropriate control measures and remediation strategies prior to asbestos removal works getting underway.

Several examples of common circumstances involving soil and ACM have been determined. For each of those circumstances, the following procedures should be followed.

### 7.1.1 Sparrow-Picking of ACM Fragments

- Following determination of the area affected by fragments of ACMs by a competent person / asbestos assessor (hygienist) selected from the DoE hygienist panel and approval to commence works from DoE, a permit will be issued to engage a friable licensed asbestos contractor.
- It is likely that fragments of ACM are in the form of asbestos cement sheeting (ACS), bituminous membrane or vinyl tile.
- The asbestos removal contractor approved by DoE is engaged to sequentially and systematically travel across each area and remove all instances of fragments of potential ACM from exposed ground surfaces.
- All works are to require asbestos air monitoring provided by a hygienist selected from the DoE hygienist panel.
- All works to require an asbestos clearance inspection undertaken by a hygienist selected from the DoE hygienist panel following the completion of the asbestos removal works.
- All documents, including licenses, airborne asbestos monitoring, asbestos clearance inspections and tipping dockets, is to be provided to DoE.
- All records are to be updated.

### 7.1.2 Encapsulation of Soil Containing ACM On-Site

- Ensure that the area is isolated in the interim and any potential dust is managed.
- Ensure that a document such as a remedial action plan (RAP), including a site specific asbestos management plan (SSAMP) is prepared or updated by a competent person / asbestos assessor (hygienist) selected from the DoE hygienist panel, detailing the encapsulation method (including comments on suitability for intended land use, e.g. car park) and environmental management requirements during implementation (e.g. dust and noise management). If the selected hygienist requires additional soil expertise, then engage a suitably experienced contaminated land management consultant, preferably from within their own company and known to DoE, with experience gained from DoE sites.
- Ensure that a permit is received from DoE to commence works.
- The AMP will determine if the asbestos is friable / non-friable and the extent of impact (lateral and vertical) through selected sampling and analysis.
- That document is to be submitted to SafeWork NSW, along with a permit application to SafeWork NSW by the selected asbestos removal contractor.
- DoE to obtain written approval from EPA before work permit is granted by DoE.
- DoE to verify compliance under WH&S Act and POEO Act.
- Notification by DoE is to be made to the respective council to allow inclusion on the site s149 certificate (under the NSW EPA Act 1997).
- In addition, the area to be encapsulated is to be documented / surveyed in such a manner to accurately determine location and depth at a later date.
- Upon receipt of both above mentioned permits from DoE and SafeWork NSW, works are to commence, along with asbestos air monitoring by a hygienist selected from the DoE hygienist panel during the encapsulation process.
- Upon completion an inspection is undertaken by the hygienist consultant to confirm activities as detailed within the RAP/AMP have been implemented and providing comment that the land has been remediated / encapsulated to allow for intended use and a site management plan is prepared to manage any future subsurface activities that may be required for the site (e.g. excavation of a trench to install new electricity cables or stormwater).

### 7.1.3 Excavation of Soil Containing ACM from Site

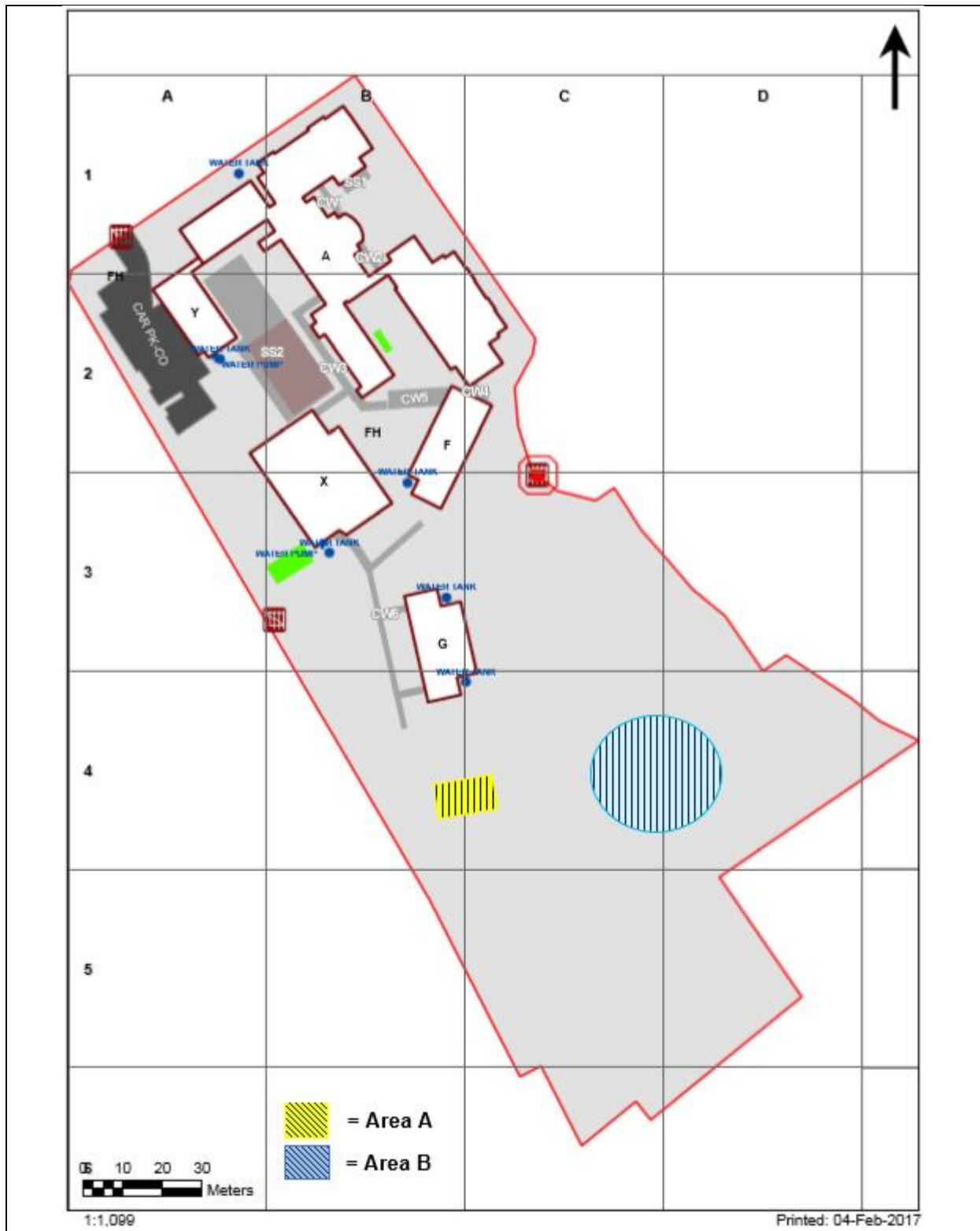
The preferred method is encapsulation of soils on-site, however if excavation and removal of soils from site becomes necessary, then the following is to be implemented as a general guide:

- Ensure that the area is isolated in the interim and any potential dust is managed.
- Ensure that a document such as a remedial action plan (RAP) including an asbestos removal control plan (ARCP) is prepared by a competent person / asbestos assessor (hygienist) selected from the DoE hygienist panel providing recommendations for the excavation of soil so as to provide for environmental management requirements during implementation (e.g. dust and noise management). If the selected hygienist requires additional soil expertise, then they are to involve a suitably experienced contaminated land management consultant, preferably from within their own company and known to DoE, with experience gained from DoE sites.
- Ensure that a permit is received from DoE to commence works.
- The ARCP will determine if the asbestos is friable / non-friable.
- That document is to be submitted to SafeWork NSW, along with notification to SafeWork NSW by the selected asbestos removal contractor.
- Upon receipt of both above mentioned permits from DoE and SafeWork NSW, works are to commence, along with asbestos air monitoring by a hygienist selected from the DoE hygienist panel during the removal process.
- Upon completion of soil removal (that portion contaminated with ACM), an inspection is undertaken by the hygienist consultant to confirm activities as detailed within the RAP/ARCP have been implemented and providing comment that those works have been completed in respect to asbestos contamination to a satisfactory level to allow for the next stage of works to commence. The site management plan (inclusive of a possible unexpected finds protocol) continues to be followed to manage any future occurrence of subsurface ACM that may be exposed during the excavation of soils on-site.

Following the investigation, the material should be classified in accordance with NSW EPA Waste Classification Guidelines – Part 1: Classification of waste 2014, and taken to an approved landfill site that is licensed to receive waste relevant to its classification.

# Appendix A

## Site Plan



## Appendix A. Site Plan



Where possible only 'Areas' identified in SSAMP, 2013 Site Plan have been recorded in **Appendix A.**

Information in this Site Plan was sourced from documents provided to AECOM from the Department of Education. AECOM does not guarantee that this SSAMP has confirmed, warranted or certified the location, identification and/or the classification of all ACM by others in any report previously provided and/or which is or may be present on the site. This document and the information are solely for the use of the authorised recipient and this document may not be used, copied or reproduced in whole or part for any purpose other than that for which it was supplied by AECOM. AECOM makes no representation, undertakes no duty and accepts no responsibility to any third party who may use or rely upon this document or the information.

# Appendix B

## Site Management Requirements - Checklist



## Appendix B Site Management Requirements - Checklist

**Table B1 Interval Checklist**

Area	Location	Inspection Details	Initial Inspection	Subsequent Three-Monthly Inspections				
			Date	Date	Date	Date	Date	
A	Upper playground area	Surface cover adequate? (Y/N)						
		Suspected asbestos materials visible? (Y/N)						
B	Sloped area situated between the upper and lower playground area	Surface cover adequate? (Y/N)						
		Suspected asbestos materials visible? (Y/N)						

**Table B2 Incident Inspection Checklist (e.g. following heavy rain or disturbance)**

Area	Location	Inspection Details	Initial Inspection	Subsequent Incident Inspections				
			Date	Date	Date	Date	Date	
A	Upper playground area	Surface cover adequate? (Y/N)						
		Suspected asbestos materials visible? (Y/N)						
B	Sloped area situated between the upper and lower playground area	Surface cover adequate? (Y/N)						
		Suspected asbestos materials visible? (Y/N)						

# Appendix C

## Background Site-Specific Information

## Appendix C Background Site-Specific Information

Table C1 Background Site-Specific Information

Doc. Name	Background Site-Specific Information
SSAMP, 2013	<p>In August 2007, fibrous cement fragments were identified on the ground surfaces of the upper playground area and the sloped area situated between the upper and lower playgrounds, at Hazelbrook Public School, Great Western Highway, Hazelbrook NSW 2779.</p> <p>In order to manage the risk of exposure to asbestos, any fibrous cement fragments are to be removed from the ground surfaces. The areas where fibrous cement fragments have been identified within the fill material (and further in-situ asbestos fragments may be present) have been designated as “asbestos zones”.</p> <p>In the previous ground inspection report, reference 2115108B/LT_6347/TR/ra, it was proposed that the asbestos zone (i.e. areas of imported fill) located in the upper playground area was to be encapsulated with appropriate surface treatment measures such as re-turfing, raised mulched garden beds, artificial turf and/or paving as appropriate and that the sloped area located between the upper and lower playground is monitored on a regular basis by a Department of Commerce (DOC) representative. If fragments continue to be identified on the sloped area, the area will be reassessed and appropriate surface treatment measures such as re-turfing, paving and/or mulching implemented.</p> <p>The asbestos removal/ clean up works completed in August 2007 comprised:</p> <ul style="list-style-type: none"> <li>• The removal, clean-up and disposal of the visible fragments of fibrous cement on the ground surface. Removal was limited to the accessible surface areas only.</li> </ul>

# Appendix D

## Asbestos In Grounds - Occurrences and Register

## Appendix D Asbestos In Grounds – Occurrences and Register

### Asbestos In Grounds – Occurrences

A summary of asbestos in grounds occurrences and remediation works completed at the school (recorded in SSAMP, 2013) is provided in Table D1. Where possible only 'Areas' identified in SSAMP, 2013 Site Plan have been recorded in the Site Plan in Appendix A.

**Table D1 Asbestos in Grounds Occurrences at the Site**

Date	Area	Location	Incident	Remedial Measure / Treatment	Comment
August 2007	A	Upper playground area	Fibrous cement fragments identified on the ground surfaces	<ul style="list-style-type: none"> <li>The removal, clean-up and disposal of the visible fragments of fibrous cement on the ground surface. Removal was limited to the accessible surface areas only.</li> </ul>	Referenced from SSAMP, 2013
August 2007	B	Sloped area situated between the upper and lower playground area	Fibrous cement fragments identified on the ground surfaces	<ul style="list-style-type: none"> <li>The removal, clean-up and disposal of the visible fragments of fibrous cement on the ground surface. Removal was limited to the accessible surface areas only.</li> </ul>	Referenced from SSAMP, 2013

## Asbestos In Grounds – Register

The location, type, condition and accompanying risk assessment of asbestos identified in grounds at the Site has been taken from the SSAMP, 2013 and is recorded in the asbestos in grounds register detailed in Table D2. Where possible only 'Areas' identified in SSAMP, 2013 Site Plan have been recorded in the Site Plan in Appendix A.

**Table D2 Asbestos in Grounds Register for the Site**

Area	Location	Material Description	Extent	Material Condition	Risk Status <sup>^</sup>	Control Priority	Maintenance Requirements
A	Upper playground area	Possible buried asbestos cement fragments	Throughout – below ground surface	Unknown	Low	Medium	Provide repair to surface coverage using re-turfing, paving and/or artificial grass coverings as appropriate. Do not disturb soil surface. Inspect every three months for signs of surface wear and possible fragments at surface. The initial inspections should be carried out by a Department of Commerce representative.
B	Sloped area situated between the upper and lower playground area	Possible buried asbestos cement fragments	Throughout – below ground surface	Unknown	Low	Medium	Inspect monthly for signs of surface wear and possible fragments at surface. If no fragments are being found during the monthly inspections the frequency of inspections can be decreased to once every three months. The initial inspections should be carried out by a Department of Commerce representative.
<b>Risk Assessment Factors</b>							<sup>^</sup> Risk assessment conducted in previous SSAMP.
<b>Low Risk:</b> Asbestos containing materials that pose a low health risk to personnel, employees and the general public providing they remain undisturbed.							
<b>Medium Risk:</b> Asbestos containing materials that pose a moderate risk to people in the area – there is a medium potential for the material to release asbestos fibres if disturbed.							
<b>High Risk:</b> Asbestos containing materials that pose a high health risk to personnel of the public in area of the material. There is a high potential for the material to release asbestos fibres if disturbed, or a potential for the materials to release fibres even if undisturbed.							

# Appendix E

## Limitations

## Appendix E Limitations

AECOM Australia Pty Ltd (AECOM) has prepared this report for the DoE in accordance with the usual care and thoroughness of the consulting profession in response to specific instructions from the DoE AMU and in accordance with AECOM's proposal *60535203\_AECOM\_Prp\_AMPs\_20200513\_1.pdf* dated 13 May 2020. This report is based on generally accepted practices and standards at the time it was prepared. No other warranty, expressed or implied, is made as to the professional advice included in this report.

AECOM did not attend site or undertake an inspection at the site. AECOM did not undertake a historical document review as part of the SSAMP process.

This report has been prepared by AECOM, an independent consultant engaged by the DoE, based on the scope of works described in **Section 1.2**, as well as information and sources described in the report. The findings and interpretations set out in the report are based on data provided to AECOM by the DoE from the former SSAMP reports.

The methodology adopted and sources of information used by AECOM are outlined in the report. Where this report indicates that information has been provided to AECOM by third parties, AECOM has not verified or checked the accuracy of the information. AECOM assumes no liability for any inaccuracies in or omissions to that information. AECOM disclaims responsibility for any asbestos at the site.

AECOM does not guarantee that this SSAMP has confirmed, warranted or certified the location, identification and/or the classification of all ACM by others in any report previously provided and/or which is or may be present on the site. Further investigation is recommended if ACM are encountered during works or other activities.

In addition, this report does not, and does not purport to, give legal advice as to your actual or potential asbestos liabilities, or draw conclusions as to whether any particular circumstances constitute a breach of relevant legislation. You will appreciate that this advice can only be given by qualified legal practitioners.

AECOM does not represent that this report is suitable for use by any third party. It is the responsibility of third parties to independently make inquiries or seek advice in relation to their particular requirements.