Remedial Detailed Site Investigation

Wedge and Grey Shack Settlements

Prepared for:
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Distribution

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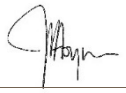
Project Director		
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Contents

Figures

Executive Summary

Senversa Pty Ltd was commissioned by the Department of Parks and Wildlife ('Parks and Wildlife') to undertake asbestos assessment and initial remediation in relation to asbestos in soils at the Wedge and Grey shack settlements. The assessment and remedial works were undertaken in accordance with an Auditor endorsed Sampling and Analysis Quality Plan (SAQP) (Senversa, 2016).

The Wedge and Grey shack settlements are located in Wedge Reserve and Grey Reserve ('Wedge' and 'Grey', collectively referred to as 'the Site').

Parks and Wildlife's long term goal for much of the Site is to have asbestos contamination removed and those areas deemed decontaminated, recognising that for some areas containment and management may represent a more practical and acceptable outcome. This is a long-term plan and in the short to medium-term, Parks and Wildlife needs to manage the risk asbestos poses to protect the health of shack owners and their visitors, reserve visitors and Parks and Wildlife staff.

The objective of this aspect of the project is to:

- build on the works already completed by Aurora and others to improve confidence in the characterisation of asbestos impacts to inform future remedial planning including obtaining additional information on contamination status of soils by Asbestos Fines (AF) in the vicinity of shacks; and
- reduce the amount of identifiable Asbestos Containing Materials (ACM) (to the extent practical), particularly within the most accessed areas, such that the risk represented is reduced.

To achieve the above objectives a Remedial Detailed Site Investigation (DSI) was undertaken consistent with relevant regulator guidance and in accordance with the procedures and methodology as detailed in the SAQP.

The Remedial DSI was fundamentally concerned with two distinct aspects at the Site, being:

- identification of ACM in soil (and its practical removal); and
- characterisation of AF in soil that may have resulted from degradation of ACM within built structures (e.g. run-off from asbestos rooves).

The scope of works undertaken for the ACM identification and removal was as follows:

- systematic walkover of the accessible areas within the Site to identify ACM;
- collection and disposal of identified ACM to the extent practical;
- identification and characterisation of identified ACM not removed; and
- updating of the asbestos register for the site.

The scope associated with the AF assessment involved collection of soil samples for AF analysis in the vicinity of three main types of shacks (12 separate shacks in total) selected as having varying potential for AF to be present based on their construction and condition.

ACM Impacts and Remediation

The works successfully built on the existing characterisation of ACM impacts to soil to vastly improve the overall understanding of the nature and extent of asbestos impacts at the two settlements. This was achieved through the completion of a comprehensive, detailed, methodical, consistent and thoroughly documented site survey that resulted in the identification of all identifiable asbestos within the surveyed area (within the bounds of the scope of work and methodological limitations).

With the exception of those circumstances where identified ACM was not removed (37 locations at Wedge and 16 locations at Grey) all identified asbestos within the surveyed area was removed.

The removal of 360 kg of ACM from the most frequented areas of the settlements has inherently reduced the risk of exposure to asbestos for relevant receptors (current shack residents, recreational visitors and Parks and Wildlife workers and contractors).

The identification and preliminary characterisation of those circumstances where asbestos was not removed provides a valuable basis for further remedial planning and works.

AF Impacts

Shacks containing ACM may be associated with AF in soils in their near vicinity as a result of degradation of the ACM building materials. The propensity for AF to be present near shacks appears in general terms to be influenced by the nature of building materials containing ACM and the condition of these materials.

It is reasonable to infer that shacks with ACM rooves and/or gutters in deteriorated condition are most likely to be associated with AF in soils in their vicinity. Conversely, shacks with no ACM in their construction materials appear less likely to be associated with AF in soil implying that AF in soil is directly related to shack materials and the near vicinity of shacks.

The limited survey undertaken associated with this aspect, together with the lack of clear distinction between two of the scenarios tested (high and medium potential) and the variability in some of the results achieved means the conclusions of this assessment should be considered as a preliminary indication of potential relationships between shack types and AF presence only.

Based on the above conclusions the recommendations summarised below are made.

- Consideration should be given to the appropriate management/remediation of those 53 ACM issues that remain outstanding from this work. The manner in which this work should be prioritised will involve a range of considerations by Parks and Wildlife but priority based on the relative risk represented should be one of these (noting that there did not appear to be a wide range of relative risk and no instances where immediate action appeared warranted).
- Since this project represents an intermediate and discrete stage in the overall progress toward satisfactory remediation and management of asbestos issues at the Site, it is likely additional assessment and/or remediation designed to confirm achievement of recognised remedial end points will be required prior to seeking reclassification under the Contaminated Sites Act 2003. For example, it is common under circumstances comparable to that at the two communities for works similar to that undertaken as part of this project to need to be repeated (in some form), sometimes more than once before confident conclusions can be drawn regarding the success of remediation.
- Consideration should be given to assessment and management of risk associated with AF in the vicinity of shacks containing ACM which could include the following:
    - an expansion of the AF assessment undertaken to improve confidence in the conclusions and inferences capable of being made particularly in relation to the medium potential shack types and the level of risk represented by AF in the vicinity of shacks;
    - development of a soil remediation and management plan in consultation with relevant stakeholders if required following further assessment as noted at i. above; and
    - undertake remedial works for AF (if necessary as noted at ii. above), taking into consideration future management proposed for the Site.

List of Acronyms

Acronym	Definition
ACM	Asbestos Containing Material
AF	Asbestos Fines
AHD	Australian Height Datum
AMP	Asbestos Management Plan
ASC NEPM	National Environment Protection (Assessment of Site Contamination) Measure
BSR	Basic Summary of Records
CSM	Conceptual Site Model
DEC	Department of Environment and Conservation
DER	Department of Environment Regulation
DMP	Department of Mines and Petroleum
DoH	Department of Health
DQI	Data Quality Indicators
DQO	Data Quality Objectives
DSI	Detailed Site Investigation
EC	Electrical Conductivity
FA	Fibrous Asbestos
GCCA	Grey Community and Conservation Association
LOR	Limit of Reporting
NATA	National Association of Testing Authorities
QA	Quality Assurance
QC	Quality Control
SAQP	Sampling and Analysis Quality Plan
WIPA	Wedge Island Protection Association

1.0 Introduction

Senversa Pty Ltd (Senversa) was commissioned by the Department of Parks and Wildlife ('Parks and Wildlife') to undertake an asbestos assessment and initial remediation works in relation to asbestos in soils at the Wedge and Grey shack settlements. The Wedge and Grey shack settlements are located in Wedge Reserve and Grey Reserve ('Wedge' and 'Grey', collectively referred to as 'the Site'). The location of Wedge and Grey are shown on **Figure 1**.

Prior to conducting fieldworks, Senversa prepared a Sampling and Analysis Quality Plan (SAQP) to detail the investigation objectives, methodology and scope to guide field works. The SAQP was endorsed by the appointed Department of Environment Regulation (DER) Accredited Contaminated Sites Auditor for the Site, Mr Tony Scott (Coffey Environments) ('the Auditor').

This report documents the assessment and initial remediation works undertaken at the Site.

1.1 Background

Wedge and Grey have been subject to construction of recreational shacks in an uncontrolled and unregulated manner from the 1950s to the 1990s. Wedge consists of approximately 370 structures and Grey consists of approximately 142 structures. The shacks were constructed from various building materials, predominantly those that were cheap and easily transportable (including asbestos containing materials (ACM)).

Since early 2012 an assessment and planning exercise has been undertaken to determine an appropriate level of shack retention and the location and form of possible public recreation and tourism infrastructure at Wedge and Grey. As part of the planning exercise it was identified that significant volumes of ACM are present across the reserves, both within buildings and weathered fragments (including fibres) in shallow surface soils, which may pose a risk to human health associated with the current and future use of the area.

An Asbestos Assessment and Preliminary Management Plan was prepared by Aurora Environmental (Aurora 2015) to gain a clearer picture of the nature and extent of ACM in and around buildings at Wedge and Grey as a first step to understand the risks and requirements for the safe management or removal of ACM. The assessment found that there are multiple locations of soils impacted by ACM fragments around shacks and frequently accessed areas (e.g. common areas and tracks) and within the dedicated waste disposal areas. Specifically, Aurora identified 206 shack locations with ACM within the building structure or ACM impacted soils in their immediate vicinity. Aurora concluded that the issue of asbestos in soils was widespread and the estimated ACM concentration in soil at numerous locations exceeded the Department of Health (DoH) criterion for the protection of human health and consequently warranted some form of management or remediation.

Parks and Wildlife has subsequently commissioned Senversa to undertake the next phase of works to assess and manage ACM at Wedge and Grey, comprising works described as a Remedial Detailed Site Investigation (Remedial DSI) as recommended by Aurora.

1.2 Project Appreciation

There are a range of factors to be considered associated with the staged approach being taken to the assessment and management of asbestos issues at the Site. For this reason, it is recognised that the works conducted as part of this Remedial DSI have particular constraints and limitations and therefore particular and limited objectives. It is appreciated that these works form an intermediate and discrete stage in the overall progress toward satisfactory remediation and management of asbestos issues at the Site. As such, the works represent an opportunity to assess the presence of ACM and fibres in soil (the latter referred to hereafter as Asbestos Fines (AF)) at the Site in greater detail and to opportunistically remove identified ACM where it is practical to do so.

The works have resulted in an improved understanding of the contamination status of the Site by asbestos and in the reduction of ACM in soil in the most frequented areas of the Site. It is important to appreciate that whilst the identification and removal of ACM as an outcome of these works have inevitably reduced the risk represented by ACM in soils at the Site in broad terms, it was not the intention of this stage of works to conclusively reduce this risk in a quantifiable manner or below a specified (or acceptable) threshold. This limitation is both a function of and compounded by:

- the dynamic nature of the Site's environment (shifting and disturbance of the sandy soils);
- ongoing use of the Site; and
- practical constraints such as access issues (including the presence of structures and vegetation) and what can be practically achieved within the project's staging, scope, timing and budget.

With this in mind, the outcomes of this stage of works must not be construed to include:

- identification of all ACM present in soil at the Site;
- removal of all ACM present at the Site or identified through this assessment;
- reduction of risk related to asbestos in a quantifiable manner or to recognised acceptable levels (and hence not result in detailed risk based conclusions); or
- reclassification of the Site under the Contaminated Sites Act 2003.

1.3 Objectives

Parks and Wildlife's long term goal for much of the Site is to have asbestos contamination removed and those areas deemed decontaminated, recognising that for some areas containment and management may represent a more practical and acceptable outcome. This is a long-term plan and in the short to medium-term, Parks and Wildlife needs to manage the risk asbestos poses to protect the health of shack owners and their visitors, reserve visitors and Parks and Wildlife staff.

The objective of this aspect of the project is to:

- build on the works already completed by Aurora and others to improve confidence in the characterisation of asbestos impacts to inform future remedial planning including obtaining additional information on contamination status of soils by AF in the vicinity of shacks; and
- reduce the amount of identifiable ACM (to the extent practical), particularly within the most accessed areas, such that the risk represented is reduced.

1.4 Previous Investigations

A number of previous investigations have been undertaken to characterise potential contamination at Wedge and Grey, including the following:

- GHD (2014) Contamination Investigations at the Wedge and Grey Squatter Shack Communities. Preliminary Site Investigation. January 2014.
- Aurora Environmental (2015) Asbestos Assessment and Preliminary Management Plan – Wedge and Grey Settlements, Shire of Dandaragan. 10 November 2015.
- Aurora Environmental (2016) Additional Soil Sampling and Wedge and Grey Reserves. 31 March 2016.

Senversa has undertaken a review of these investigations and considers that the data presented is suitably reliable for use in the assessment of asbestos associated with the shack communities.

1.5 Definitions

The DoH (2009) has defined three main forms of asbestos as described below.

- Asbestos Containing Materials (ACM): Products or materials that contain asbestos in an inert bound matrix such as cement or resin. Taken to be sound material, even as fragments, and not fitting through a 7 mm x 7 mm sieve.
- Asbestos Fines (AF): Includes asbestos free fibres, small fibre bundles and also ACM fragments that can pass through a 7mm x 7mm sieve.
- Fibrous Asbestos (FA): Friable asbestos materials, such as severely weathered ACM, and asbestos in the form of loose fibrous material such as insulation products. Asbestos material in a condition such that it can be broken or crumbled by hand pressure.

These terms are used throughout this Remedial DSI. It is noted that the Remedial DSI is fundamentally concerned with two distinct aspects, being:

- identification of ACM in soil (and its practical removal); and
- characterisation of AF in soil that may have resulted from degradation of ACM within built structures (e.g. run-off from asbestos rooves).

For simplicities sake and to improve readability, the term ACM has been used in this report to describe all material suspected or shown to contain asbestos. The exception to this is where representative sampling has confirmed the presence or absence of asbestos in the material and this will be reflected in the description where appropriate.

Where ACM has been identified in soil that was degraded to the extent that it may be described as FA this distinction has been made as part of the assessment where appropriate.

2.0 Site Identification

2.1 Legal Identification

The location of the Wedge and Grey Reserves are shown on **Figure 1**, noting that the boundaries of the investigation as defined in this project do not correspond to the boundaries of the entire reserves (refer to **Section 2.2** for description of investigation areas for this project).

Legal identification details for Wedge and Grey are provided in **Table 1**. Certificates of title for Wedge and Grey are presented in **Appendix A**.

Table 1: Legal Identification

Detail	Wedge Reserve	Grey Reserve
Legal Description	Part Reserve 43283	Part Reserve 43284
Certificate of Title	3064 / 200	3153 / 729
Site Area	213 ha	193 ha
Location	150 km north of Perth	170 km north of Perth
Number of Structures	Approximately 360	Approximately 135
Ownership	Unvested reserves placed under the management of Parks and Wildlife by order of the Governor with the approval of the Minister for Lands and the Minister for Environment.	
Land Use	Recreational settlement.	
Zoning	Parkland recreation and letting of cottages	
Local Government Authority	Shire of Dandaragan	

2.2 Site Description

Wedge and Grey comprise recreational shacks located in an uncontrolled / unregulated manner and numerous unsealed access tracks. There is little formality to the settlements in their arrangement, layout and alignment of tracks. The area surrounding the shacks and tracks comprises remnant native coastal vegetation.

Wedge is the larger of the two settlements, comprising approximately 290 shacks (up to 360 buildings/structures). Grey has approximately 119 shacks (up to 135 buildings / structures). The original architectural character of the shacks has a strong emphasis on materials that were easily transportable on the rough four-wheel drive tracks. Recycled building materials and basic building techniques were employed in the construction of the original shacks.

Apart from shacks, the settlements also include refuse sites that are located away from the main settlements. Wedge also has a former clay pigeon shooting range present in the eastern portion of the settlement, which is now used for sporting and social events. This area is also used for sporting and social events.

Parks and Wildlife has advised that the investigation areas for Wedge and Grey comprise the following work area boundaries (as defined in **Figure 2** and **Figure 3**):

- Wedge (Management Zones A, B, C, D2, E and F) and Grey (Management Zones V, W, X and Y).
- Wedge (Management Zone H) and Grey (Management Zone Z): Investigation and remediation in these areas is proposed to be limited to track areas only.
- Aboriginal Cultural Heritage Zone D1[1] and tip sites (T1 and T2)[2] are excluded from this project.

The assessment places an emphasis on frequented areas (i.e. the accessible areas in the immediate vicinity of shacks and former shacks), common areas (cleared areas that are likely frequented but removed from the immediate vicinity of shack such as areas between shacks) and access tracks. Whilst regard was had for vegetated areas (unlikely to be regularly frequented) to the extent practical and warranted based on judgement in the field, these areas are defined and have not been subject to the same level of assessment as the designated assessment areas (i.e. were either not accessed at all or were subject to cursory inspection only).

2.3 Surrounding Land Use

Wedge is surrounded by the following land uses:

- North: Bushland, sand dunes and tracks.
- South: Sand dunes and Indian Ocean.
- East: Bushland and isolated tracks.
- West: Sand dunes and Indian Ocean.

Grey is surrounded by the following land uses:

- North: Bushland and tracks.
- South: Bushland and tracks.
- East: Bushland and tracks. Indian Ocean Drive is approximately 500 m to the east.
- West: Sand dunes and Indian Ocean.

2.4 Topography

Wedge and Grey are located on the Swan Coastal Plain, which is a low lying area with gently undulating coastal dunes and shoreline deposits. The elevation of the ground surface ranged from approximately 1 m Australian Height Datum (AHD) to 7 m AHD.

2.5 Geology

The regional geology is described as comprising alluvial, shoreline and aeolian deposits underlain by limestone at depth.

During the site works various areas of reworked sand were identified however there was no evidence of significant volumes of imported fill material.

[1] Considered to be largely absent of ACM.
[2] The tip sites were subject to investigation by Aurora. The Wedge tip (T_1) is located more than 1 km to the east of the nearest shack and the Grey tip (T_2) is located approximately 100 m to the east of the nearest shack; however, the tip is separated from the shacks by a large coastal dune. Given the separation between the tips and the shacks any AF within the tips is not considered to represent an off-site source of AF.

2.6 Hydrogeology

Groundwater within the superficial aquifer ranges in elevation from approximately 0.34 m AHD to 0.66 m AHD at Wedge and 0.33 m AHD to 0.40 m AHD at Grey. Groundwater flows in a westerly direction, discharging to the Indian Ocean. A limited groundwater investigation was undertaken by GHD. This investigation identified the presence of heavy metals (aluminium, copper, lead, nickel, selenium and zinc) in groundwater at concentrations exceeding the adopted guidelines. Elevated electrical conductivity (EC) and ammonia was also recorded in groundwater at both Wedge and Grey.

2.7 Hydrology

There are no surface water features within Wedge and Grey, with the nearest surface water body being the Indian Ocean which is located immediately to the west.

Rainfall is expected to directly infiltrate through sandy soils, however some pooling of water does occur during periods of high rainfall.

3.0 Site History

3.1 Site History

Detailed site history information was presented in the PSI (GHD 2014). The key information from the review of site history is summarised below.

- Certificates of Title indicate that the Wedge and Grey are located on Crown Land, with Parks and Wildlife (formerly Department of Environment and Conservation, DEC) listed as the primary interest holder.
- Historic aerial photographs indicate that Wedge and Grey were predominantly covered by natural, native bushland, sand tracks and sparse shacks until the 1980's when significant development of the shacks occurred. The Site has remained relatively unchanged since the 1990's.
- Wedge and Grey were classified by DER as "Possibly contaminated – investigation required" on 13 January 2010. A review of the classification was undertaken by DER in 2016, however the classification was unchanged. A Basic Summary of Records (BSR) search was not undertaken, so no further details on the classification were provided.
- A search of the Department of Mines and Petroleum (DMP) database identified that there was no licenced storage of dangerous goods.
- A review of council records identified that no formal complaints have been lodged, however a number of requests have been lodged with regards to access roads, rubbish collection and lease renewal agreements.
- Detailed site inspections and interviews with settlement representatives from Wedge and Grey were undertaken on 20 August 2013.

3.2 Previous Investigations

A review of previous investigations undertaken by GHD and Aurora was completed to assess the current status of information in relation to the presence of asbestos in the shack communities. The data presented in these reports was considered to be suitably reliable for use in the assessment of asbestos associated with the shack communities.

Specifically, reference was made to the Aurora reports in selecting the locations for the AF assessment and regard was had for the relevant aspects of the asbestos register (i.e. asbestos debris in soil) to cross-check the results from the Remedial DSI.

A summary of the key information from these reports is presented below.

3.2.1 Preliminary Site Investigation

GHD was commissioned to prepare a PSI for the Site. The objectives of the PSI were to:

- determine the likely nature, extent and severity of potential soil and groundwater contamination issues that if present, may represent the most significant contamination risk to on-site (and off-site) receptors and/or be the most costly/time consuming to address;
- assess the significance of potential sources identified (i.e. key issues that may pose a significant risk/constraint to relevant receptors as opposed to other potential sources of contamination with likely limited potential for impact); and
- determine the requirement for further work that is needed to assess actual/potential contamination issues and develop strategies to manage them.

The scope of work for the PSI comprised a desktop assessment of available information, a site walkover, limited groundwater investigation and preparation of a report (including development of a Conceptual Site Model (CSM)).

The PSI identified the presence of several sources of asbestos (ACM) contamination, although the risks to relevant receptors were generally considered to be very low to low for the current site circumstances. GHD recommended further actions to manage the risks associated with the identified ACM, including formal management of existing buildings, infrastructure and waste disposal activities.

3.2.2 Asbestos Assessment and Preliminary Management Plan

Aurora was engaged to prepare an Asbestos Management Plan (AMP) for the Site. The scope of work included development of an asbestos register following a site assessment and laboratory analysis of a limited number of samples.

A total of 490 sites (including former and current shack sites) were inspected by Aurora, with six sites noted to be inaccessible. An internal inspection of 17 shacks was also undertaken. ACM was identified (or suspected) at 259 of the sites, with 859 possibly asbestos containing products identified. The total estimated volume of ACM was approximately 7000 m^2. A range of ACM was identified including friable materials, however the material was predominantly non-friable (bonded) ACM.

A preliminary assessment for asbestos in soils was also undertaken. A total of 206 shack locations were reported to have ACM debris in soil. A limited number of soil samples also confirmed the presence of AF in soil.

Personal air sampling during the investigation did not reported detectable asbestos fibres and as such was below the exposure standard for airborne fibres.

Aurora concluded that the presence of ACM may potentially pose an unacceptable risk to human health, particularly associated with areas of friable ACM or AF. Aurora provided a number of recommendations in the report, including a recommendation for the removal all known or potentially friable ACM and asbestos cement debris to reduce the potential risk to human health from these sources.

3.2.3 Additional Soil Sampling

Aurora completed soil sampling within designated waste disposal areas at Wedge and Grey in March 2016. The objective of the assessment was to assess the presence of asbestos in soils at the locations of ACM waste disposal. The scope of work comprised collection of four soil samples from each waste disposal area (total of eight samples).

The results of soil sampling identified the presence of AF or FA at all locations within the Grey waste disposal area and ACM and AF at two of the sampling locations within the Wedge waste disposal area. The concentrations of AF/FA, where detected, exceeded the adopted DoH guideline (0.001 %w/w).

Based on the results from soil sampling, Aurora concluded that the both disposal areas contain asbestos (primarily as AF) above the adopted guidelines and that further risk assessment and management should be undertaken to limit the potential exposure in these areas.

3.3 Preliminary Conceptual Site Model

A CSM describes the potential environmental and human health risks of identified areas of possible contamination. The CSM outlines the potential links between known or potential areas of contamination (or sources) and potential receptors via pathways for potential contamination migration.

The CSM follows a source-pathway-receptor framework:

1) sources are considered to be occurrences of potentially hazardous substances;
2) receptors are entities that may be exposed to sources; and
3) pathways between a source and receptor are considered to be ways that sources could interact with receptors (often considered in terms of both migration and exposure mechanisms).

The potential pollutant linkages relevant to and prior to undertaking the Remedial DSI (as provided in the SAQP) are presented in **Table 2**.

The preliminary CSM is limited to asbestos issues considered by the Remedial DSI only. There are a number of other potential sources of contamination identified in the PSI (GHD 2014) that may require consideration associated with Parks and Wildlife's broader objectives for the settlements.

Table 2: Conceptual Site Model

Source	Pathway	Receptor	Potential Linkage?
Surficial ACM fragments within the shack communities (surrounding shacks, common areas and on tracks)	Degradation of ACM to a point where asbestos fibres may become airborne. Inhalation of asbestos fibres.	Current shack residents, recreational visitors and Parks and Wildlife workers and contractors.	✓
Asbestos fibres associated with drip lines and runoff from gutters.	Inhalation of asbestos fibres.	Current shack residents, recreational visitors and Parks and Wildlife workers and contractors.	✓

The CSM has been updated in **Section 11**, based on the outcomes from the Remedial DSI although, as anticipated in the SAQP, the works undertaken have not provided a basis to materially refine the CSM.

4.0 Data Quality Objectives

The Data Quality Objectives (DQOs) for this Remedial DSI have been developed based on the seven-stepped process presented in *National Environment Protection (Assessment of Site Contamination) Measure (as amended and in force 16 May 2013)* (ASC NEPM).

The description of the DQOs below recognises that the project has two distinct aspects with different objectives and therefore DQOs, being:

- identification of ACM in soils (and related remediation); and
- assessment of AF in soil the vicinity of shacks.

The DQO process has been tailored to suit the specific nature of the project and has been designed to be both consistent with the principles of DQO development and be fit for purpose (i.e. represent a logical rationale to inform and logically organise the data collection and implementation aspects of the project). They should be considered in this context.

4.1 Step 1: State the Problem

4.1.1 ACM Identification and Removal

There are two key problems assessed as part of this aspect of the project:

- identify locations of suspect ACM on the ground surface or in near surface soils (top 10 cm) in specified frequented areas of the Wedge and Grey shack communities; and
- where asbestos is identified, and where practical, undertake removal in accordance with a standard set of procedures, as outlined in the SAQP.

4.1.2 AF Assessment

The key problem to be addressed for the AF assessment is to characterise the contamination status of soils by AF in the vicinity of shacks. This characterisation includes testing the hypothesis that shacks with an apparently high potential to give rise to AF in soils may be distinguished from other types of shacks by the nature of AF impacts in their vicinity.

4.2 Step 2: Identify the Decision

4.2.1 ACM Identification and Removal

The key decisions for the ACM identification and removal are listed below.

- Is ACM present in the areas investigated and if so what is its location, nature and extent?
- Has identified ACM been removed where (and to the extent) practical?
- Where ACM has been identified but not removed, has it been appropriately described (location, nature and extent) and the reasons for it remaining justified?

4.2.2 AF Assessment

The key decisions for the AF assessment are listed below.

- Has AF been identified in samples representing soils in the vicinity of the shacks investigated?
- Where identified, has its extent been meaningfully delineated (i.e. is it possible to infer the extent of impact associated with AF from shacks)?
- Is the contamination status of soils in the vicinity of 'high potential' shacks distinctive from other shacks?
- Can meaningful inferences be made from the shacks investigated to the balance of shacks (and shack types) at Wedge and Grey?

4.3 Step 3: Identify Inputs to the Decision

4.3.1 ACM Identification and Removal

The following inputs are required to make relevant decisions:

- understanding of the site conditions, layout and practical constraints;
- accounting for locations of identified ACM as identified previously by Aurora;
- methodically surveying frequented areas for the presence of ACM in accordance with approved methodologies and procedures (including recording relevant information as field records); and
- implementation of assessment and removal activities (where required and practical) in accordance with approved methodologies and procedures (including recording relevant information as field records).

4.3.2 AF Assessment

The following inputs are required to make relevant decisions:

- selection of shacks considered representative of the situations to be characterised (i.e. an appropriate number of examples of shacks hypothesised as high potential, medium potential and low potential3);
- the collection of soil samples from each of the three examples of shacks (i.e. high potential, medium potential and low potential) designed to be representative of locations with the highest potential for impact and locations designed to delineate this impact (if identified);
- laboratory analysis of soil samples to determine presence or absence of AF; and
- assessment of laboratory data with reference to DoH (2009) criterion, based on spatial variation (delineation) and between the types of shacks investigated (i.e. high potential, medium potential and low potential).

[3] Low potential (background/control) sites are structures where no ACM has been identified and consideration will be given to the historic use of the selected areas to provide confidence that these locations are representative of background conditions. The categorisation of shack types has been modified slightly from the SAQP to high, medium and low potential (rather than high, low and control)

4.4 Step 4: Define the Study Boundaries

4.4.1 ACM Identification and Removal

The ACM identification and removal was undertaken in accessible areas only (shacks and immediate surrounds, access tracks and common accessible areas) in the Wedge and Grey shack communities.

Parks and Wildlife has advised that the investigation areas for Wedge and Grey comprise the following work area boundaries (as defined in **Figure 2** and **Figure 3**):

- Wedge (Management Zones A, B, C, D_2, E and F) and Grey (Management Zones V, W, X and Y):
- Wedge (Management Zone H) and Grey (Management Zone Z): These areas have had little public use or access in the past; however have potential for recreation in the future. Investigation and remediation in these areas is proposed to be limited to track areas only.

Aboriginal Cultural Heritage Zone D_1 and tip sites (T_1 and T_2) are excluded from this project. As noted in **Section 2.2** the tip sites are not considered to represent an off-site source of AF contamination due to separation distances from the settlements.

The ACM identification and removal was generally limited to surface and near surface (i.e. approximately top 10cm) soils only. Areas where ACM extended to depths greater than 10 cm, which could not be practically removed during the works, were recorded on a site plan.

4.4.2 AF Assessment

The AF assessment was limited to the surface soils in the immediate vicinity of the structures that have been selected for the AF assessment (**Section 6.5**).

4.5 Step 5: Develop a Decision Rule

4.5.1 ACM Identification and Removal

The following decision rules were adopted for the ACM identification and removal program:

- ACM has not been identified, no further actions with respect to ACM will be required;
- ACM has been identified and has been characterised and removed to the extent practical, no further actions with respect to ACM will be required; and
- ACM has been identified and has not been removed, due to justified constraints, further action in the form of remediation or management will be required.

Detailed decision criteria, as presented in the Field Procedures (**Appendix B**), were adopted for the ACM identification and removal program.

4.5.2 AF Assessment

The following decision rules were adopted for the AF assessment:

- if AF is identified it will be considered to represent a potential risk to human health unless further, more detailed assessment concludes otherwise;
- the absence of AF at locations where it is expected (as per the hypothesis) will result in further consideration (and possibly assessment) being required;
- a holistic (whole of data set) consideration will be used to assess whether:
  - AF has been meaningfully delineated;
  - high potential sites are distinctive from other sites; and
  - useful inferences can be made from the investigated shacks to the balance of shack and shack types at Wedge and Grey.

4.6 Step 6: Specify Limits on Decision Errors

The Data Quality Indicators (DQIs) of precision, accuracy, representativeness, comparability and completeness have been assessed for the presence of decision errors.

The DQIs are discussed further in **Section 7.2**.

4.7 Step 7: Optimise the Design

The sampling and analysis program was initially presented in the SAQP (Senversa, 2016) and approved by the Auditor. The sampling and analysis program was designed to investigate and remediate the identified asbestos impacts in accordance with the objectives of the Remedial DSI (**Section 1.3**). A detailed overview of the works undertaken is presented in **Section 6.0**.

5.0 Guideline Framework for Contamination Assessment

5.1 Assessment Guidelines

The approach to investigation and remediation of the Site was consistent with relevant guidelines including:

- Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia (DoH 2009)
- Guidance Note on the Assessment, Remediation and Management of Asbestos Contamination in Regional Public Areas (DoH 2011)
- Contaminated Sites Act 2003 and Contaminated Sites Regulations 2006
- DER Contaminated sites guidelines
- National Environment Protection (Assessment of Site Contamination) Measure (as amended and in force 16 May 2013) (ASC NEPM) (NEPC 1999)

5.2 Assessment Criteria

DoH provides guidelines for the assessment, remediation and management of asbestos-contaminated soils in Western Australia. The DoH guidelines state the following with respect to contamination criteria:

> *"The DoH takes a risk-based and, where necessary, conservative approach to the uncertainties associated with protecting the public from asbestos-contaminated sites."*

Based on the identified land use (recreational and shack community), the following assessment criteria (DoH 2009) applies to the assessment of asbestos investigation and remediation outcomes; however, refer to **Section 5.3** for the application of this criteria in the context of the project:

- 0.001% w/w for AF/FA
- 0.02% w/w for ACM
- No visible asbestos in the surface 10 cm

Where applicable, the concentration of ACM will be calculated using the following equation:

$$\% \text{ Soil Asbestos} = \frac{\% \text{ Asbestos Content x ACM (kg)}}{\text{Soil Volume (L) x Soil Density (kg/L)}}$$

where it is assumed that:

% Asbestos Content (within asbestos cement material) = 15%

Soil Density = 1.65 kg/L

5.3 Project Context

It is recognised that this project represents an intermediate stage of assessment and remediation (with limited scope and objectives) and as such DoH assessment criteria have been utilised as tools to guide works and aid assessment and remediation only.

With respect to ACM in soils identification and remediation, a broad approach has been adopted that sought to identify all ACM in surficial soils (nominally top 10 cm) within accessible areas and to remove this material where practical. With reference to the calculation presented in **Section 5.2**, given the specific objectives and limitations of the project and that all identified ACM was removed to the extent practical, risk assessment applying the equation was not utilised. Further detail in relation to decision rules that have been made regarding application of this are provided in **Section 4.5** and the relevant procedures in **Appendix B**. Reference has been made to relevant DoH criteria in this Remedial DSI as an explanatory tool, however definitive statements with respect to achieving relevant criteria are not considered to be appropriate.

The assessment of AF has similarly utilised the DoH criteria of 0.001% w/w to assist with reporting clarity and understanding risk at a screening level whilst recognising the limited nature of assessment has lent itself to discussion in terms of the presence / absence of AF (particularly between shack types) and related risk implications rather than a detailed risk assessment applying a quantitative threshold criterion. For this assessment, where asbestos has been detected initially by the laboratory, it has been assumed to exceed the DoH assessment criteria of 0.001%w/w (as identified in the DQOs) regardless of additional (non-NATA method) calculations made by the laboratory.

5.4 Scope of Work Summary

Below is a summary the works undertaken at the Site during the Remedial DSI to be considered in conjunction with the Procedures **(Appendix B**) and **Section 6**.

- A site specific Health Safety and Environment Plan was prepared which was independently reviewed by an occupational hygienist subcontracted by Senversa.
- ACM identification and removal works was undertaken by McElhinney Consulting totalling over a period of 24 work days. The works comprised a systematic walkover of the Site by four field personnel under the supervision of a Field Supervisor. Accessible areas in an approximate 10 m radius around the shacks (where practical), vehicle tracks and common areas between the tracks were assessed, recorded electronically and remediated where appropriate, as shown on Figures 4.1 to 4.18 and Figures 5.1 to 5.5. Some areas were not accessible due to vegetation or other restrictions and so could not be assessed as part of the project.
- Collected ACM was disposed daily to a 16 m3, plastic lined lockable skip bin located within the Wedge Tip hired for this purpose.
- Field auditing by Senversa staff was undertaken weekly (five days in total) which involved confirmation that procedures were being adhered to, assessment of those occurrences classified as ‘delay’ or ‘outstanding’, confirmation of remediated areas and areas classified as having no ACM and collection of representative ACM samples.
- AF samples were collected, including recording relevant documentation and submission of collected samples to the laboratory for analysis by Senversa staff.
- Because the initial scope of works was completed with time allowance to spare, additional remedial works within several areas classified as ‘outstanding’ at Grey was undertaken in consultation with DPaW.
- Data assessment and updating of the Asbestos Register was undertaken daily for the duration of the field program.
- ACM stored in the skip bin was disposed to Northam landfill at the completion of the field program.

- Weekly email project updates were provided to Parks and Wildlife for the duration of the program.
- This Remedial DSI report was prepared to document the works undertaken and the outcomes achieved.

6.0 Sampling and Analysis Procedures and Methodology

6.1 Overview

To ensure that field work was completed in a manner that was transparent, thorough, methodical and consistent, a set of field procedures were developed (**Appendix B**) for all key field activities.

The field methodology undertaken for this project is summarised as follows:

- systematic walkover of the accessible areas within the Site;
- identification of ACM, recording of relevant details;
- collection of surficial ACM and raking of the area where ACM was identified with at least two passes to expose ACM within the approximately top 10 cm of the soil profile; and
- visual validation that the identified ACM has been removed where practical and appropriate.

The Site was divided into smaller segments to allow for a manageable approach to the assessment. The segments created are defined as follows:

- **Zone:** A zone correlates to the aerial maps for the two Sites provided by Parks and Wildlife (as reflected in the **Figures 4.1 to 4.18** and **Figures 5.1 to 5.5**). Wedge Zone 1 comprises the land depicted in “Wedge shacks_Map 1”, similarly Grey Zone 1 correlates to the land depicted in “Grey shacks_Map 1”.
- **Area:** Each Zone was broken down into distinct Areas within that Zone.
    - Shacks – this area is defined as the accessible area surrounding a shack (licensed structure) or the footprint and surrounds of a former shack (with Parks and Wildlife number designation) to approximately 10 m radius from the structure. This incorporates surrounding structures directly associated with the shack (e.g. sheds, gazebos, BBQ areas etc.) to the extent practical.
    - Access Tracks – cleared vehicular access tracks throughout the Zone.
    - Common Area – common areas are defined as accessible and frequented cleared areas not otherwise defined as shacks or access tracks.

Whilst vegetated areas (unlikely to be regularly frequented) have been considered to the extent practical based on judgement in the field, these areas have been defined and have not be subject to the same level of assessment as the designated assessment areas (i.e. may not be accessed at all or may be subject to cursory inspection). Vegetated areas which have not been assessed are identified on **Figures 4.1 to 4.18** and **Figures 5.1 to 5.5**.

6.2 Preliminary Site Walkover/Pilot Trial

Given the scope of project, the large volume of information to be gathered and managed and the need for works to represent substantial progress toward effective risk management of asbestos at the Site, a preliminary site walkover and scope / methodology pilot trial was undertaken on 18 and 19 July 2016 prior to the commencement of the full field program.

The purpose of the pilot trial was to familiarise the field team with ground conditions, to ground truth and cross-check the information presented in previous reports prepared by Aurora and to pilot the methodology design (including application of field procedures and methodology and data recording). The preliminary site walkover also aimed to assist in identifying any additional issues that need to be managed during the field works.

Representatives from Parks and Wildlife (Steve Meyerkort and Brad Rushforth), Senversa (Jeremy Hogben, Ashton Betti and Sarah Horgan) and McElhinney Consulting attended the Pilot Trial. The Auditor and Department of Health representatives were invited but were unable to attend.

At the completion of the Pilot Trial, the field team were familiar with the site conditions and methodology to be utilised for the ACM identification and removal works and the field supervisor was competent in using the electronic tablet that recorded the information obtained during the assessment.

It was not considered necessary to make any alterations to the SAQP as a result of the outcomes of the Pilot Trial and this was communicated to Parks and Wildlife and the Auditor.

6.3 Record Keeping

A tablet was used to create and record the field observations using a pre-loaded electronic field form (**Appendix C**). A satellite aerial map of the two settlements with a layer showing each of the shacks and their assigned numbers was also pre-loaded onto the tablet. A GPS (with an accuracy of 1 m) was connected to the tablet via Bluetooth which allowed the field personnel to accurately pin point where they were standing within the Site and ensure the locations of the identified or suspected ACM were recorded as accurately as practical.

Where identified or suspected ACM was observed, a field form was completed which allowed for a detailed description of the observation and also a description of the action taken based on the criteria detailed in the Procedures (**Appendix B**). The field forms allowed photographs of identified ACM to be uploaded, as well as a photograph of the area after its removal.

A field form was also completed for each shack assessed, regardless of whether ACM was noted.

The information provided in the field forms was used to update the existing Asbestos Register, which is provided in **Appendix D**.

6.4 Reporting

Each day the electronic data was uploaded and assessed to ensure all records were completed in accordance with the specified criteria detailed in the Procedures (**Appendix B**). The data was able to be assessed in the office in real time using the web based Collector ArcGIS program. The program allowed for the export of an excel spreadsheet which detailed the inputs from the tablet for every recorded occurrence and field form completed. This information was also able to be visually assessed on the web.

This report presents a collation of the data recorded electronically in the form of the updated Asbestos Register and reproduction of figures showing the areas assessed and the recorded locations. **Section 8** provides further summary of the results.

As the raw data is in electronic format, it is not included in its entirety in this report, however the data obtained is reproduced in the Asbestos Register and **Figures 4.1 to 4.18** (Wedge) and **Figures 5.1 to 5.5** (Grey).

Discussions are being held with Parks and Wildlife regarding the most practical way to provide the electronic data, particularly that contained in the web based Collector ArcGIS program.

The raw data output (excel tables) can be made available on request.

6.5 ACM Identification and Removal

Aurora identified that there are 206 shack locations where ACM impacted soil has been identified or is considered likely to occur. There are also a number of locations where ACM has been identified along access tracks or in areas located between shacks.

An investigation of all possible locations of ACM was undertaken using a systematic approach across all accessible areas (i.e. shacks, tracks and common areas). All locations of identified ACM were recorded and investigated in accordance with the procedures presented in **Appendix B**.

These procedures included:

- identification and field ranking of ACM occurrences, including documenting condition of ACM;
- hand picking and raking where ACM was identified or sample collection (where severely degraded ACM was identified);
- re-assessment of location of ACM and final classification;
- where identified ACM resulted in a final classification of 'delay' or 'outstanding', a representative sample of the suspected ACM was collected (as appropriate) in order to inform future management options for the area and associated processes;
- data management; and
- disposal of collected ACM at Northam Landfill. Disposal dockets are provided in **Appendix E**.
- AF Assessment

Previous investigations by Aurora identified the presence of AF associated with areas of runoff from asbestos rooves and guttering. A review of the Asbestos Register identified 52 structures where asbestos rooves and/or gutters are present within structures. Aurora sampled five of these locations and detected AF within all sampled locations (G028, G073, G107, W073, W099). The concentrations of AF detected were not reported by Aurora; however, Aurora assumed that a detection indicated an exceedance of the adopted guideline, 0.001% w/w.

Based on the results of the Aurora assessment, an investigation as to the potential distribution of AF in the vicinity of shacks and the relationship, particularly with runoff from asbestos rooves and/or gutters (but also the more general potential for AF to occur around shacks as a result of general wear and tear) was undertaken. To meet relevant DQOs for this aspect, the investigation assessed a selected number of shacks with different constructions and conditions, as follows:

- Scenario 1 Hypothesised High Potential
  - Those shacks with moderately damaged / deteriorated ACM roof (four locations; G028[2], G092, W013 and W099[4]).
- Scenario 2 Hypothesised Medium Potential
  - Those shacks with low damaged / deteriorated ACM roof (three locations; G103, W055 and W162); and
  - Those shacks with ACM within the structure (i.e. walls, fence, etc.) but without an ACM roof (three locations; G009, W149 and W245).
- Scenario 3 Hypothesised Low Potential (Background/Control)
  - Those shacks without the presence of ACM within the structure (control sample, two locations; G067 and W170).

The total number of locations selected to form this aspect of the assessment was somewhat nominal and conceived as appropriate for the initial stage of this assessment, taking account of budget and scope limitations. Within these constraints, utilising two background locations and a minimum of three locations for the three other circumstances that were assessed (noting a bias toward the highest risk circumstances) was considered suitable to provide a reasonable opportunity for the collection of representative and useful data.

The assessment at each of the locations is summarised below:

- Sampling locations were selected on a case by case basis with the aim of sampling the area most likely to be impacted and areas removed from this area with a view to delineating impact. Sample locations were marked using a GPS and locations recorded on a plan. Sampling locations were "stepped out" from the identified area of runoff, with 15 samples per structure collected.

[4] Runoff at G028 and W099 was sampled by Aurora and confirmed to contained AF.

- A 500 mL wetted sample for AF/FA was collected by hand from the ground surface (0 m bgl to 0.1 m bgl) at locations within and surrounding the likely impacted area to facilitate delineation of the extent of impact. Nitrile gloves were worn during sample collection, and were replaced between each sample. Furthermore, the trowel used for collection of soil samples was decontaminated between each sampling location. The presence of any ACM at the sampling locations was recorded on field sheets, including the size and condition of fragments. Field staff were careful not to collect any ACM fragments within the soil samples.
- Samples were submitted to a National Association of Testing Authorities (NATA) accredited laboratory for analysis for presence/absence and quantification analysis of FA/FA.

A field form was completed for each location subject of assessment (12 forms in total). Any evidence, or potential evidence, of soil disturbance was documented on field sheets. Copies of the completed field forms are provided in **Appendix C**.

The shack locations, scenario type and sampling locations are illustrated in **Figures 6.1, 6.2** and **7**.

6.6 Waste Removal

All ACM collected during the investigation was placed in large black plastic bags during the investigation works and then placed in a lockable, plastic lined skip bin at the end of each day. At the completion of the investigation works the contents of the skip bin was disposed at a facility licensed to accept asbestos waste (Northam Landfill). Disposal dockets are provided in **Appendix E**.

6.7 Experience/Qualifications

All persons involved in the field program were appropriately qualified and experienced in accordance with DoH Guidelines. Specifically, the field program was supervised by the following:

- Sarah Horgan (Lead Scientist): Sarah completed a BSc at Murdoch University in 2003. Sarah has more than ten years' experience working in the contaminated land industrial in Western Australia. Sarah has completed and supervised numerous asbestos assessments and remediation across a range of sites in accordance with DoH Guidelines.
- Phil McElhinney (Field Supervisor): Phil has over 35 years in the construction, civil, demolition and mining industries and is a licensed (restricted) asbestos removalist. Phil has completed and supervised asbestos removal across a range of sites, with experience including emu bobs to DoH Guidelines, monitoring earthworks for compliance to the Site Management Plans and stakeholder management which included but not limited to; Resident & Council Liaison, Local Schools & Churches & other site consultants. Phil was supported by a work crew with experience in undertaken works of this nature. McElhinney Consulting hold a restricted asbestos removal license.

Curriculum Vitae's of the field personnel (including a copy of McElhinney Consulting asbestos license) are provided in **Appendix F**.

6.8 Variations from SAQP

Based on the success of the Pilot Trial, no significant variations to the methodology or procedures presented in the SAQP (Senversa 2016) occurred during the field program. Three minor amendments were made to the AF sampling program based on observations in the field prior to conducting the sampling as follows:

- AF sampling was initially proposed at W130, however on inspection of the shack, it was observed to be fully constructed from steel instead of containing ACM within its structure. W149 was considered a suitable replacement for W130, as it was constructed from ACM and was observed to have a steel roof.

- AF sampling at W245 was initially proposed, however on inspection of the shack it was observed to be constructed completely of steel instead of ACM. There was an ACM fence located approximately 5 m north of the shack and as such, samples were collected immediately adjacent to the fence and then stepped out to approximately 4 m from the fence.
- The classification system adopted for the AF sites in the SAQP was high potential, low potential and control/background. This was amended in the Remedial DSI to be high potential, medium potential and low potential (control/background) which directly correlated with the previous groupings of shacks.

7.0 Community Consultation

Given the complex and sensitive nature of the project, it was envisaged that there was likely to be a number of external stakeholders with keen interest in the project. In order to enable the successful delivery of the project, effective communication with stakeholders was required.

Community consultation requires consideration of a number of factors, which are outlined below.

7.1 Key Stakeholders

The following key stakeholders were identified, which may have required consultation as part of the Remedial DSI works undertaken:

- Parks and Wildlife (responsible for management of Wedge and Grey, client)
- Individual shack owners
- Shack owners' associations - Wedge Island Protection Association (WIPA) and Grey Conservation and Community Association (GCCA)
- Regulatory Authorities (DER, DoH and the Auditor)
- Local Government Authority (Shire of Dandaragan)

7.2 Extent of Consultation

Parks and Wildlife has undertaken extensive consultation with stakeholders to date, both specifically for the investigation and remediation works associated with asbestos and as part of the settlements generally. As such, Parks and Wildlife has a good understanding of the community concerns and has a solid working relationship with most of the key stakeholders.

Information in relation to the presence of asbestos in the shack communities and the site investigation works undertaken as part of the Remedial DSI is available on the Parks and Wildlife website (https://www.dpaw.wa.gov.au/ management/wedge-grey). This information is also provided on both the WIPA and GCCA websites.

Parks and Wildlife has provided individual shack owners and WIPA/GCCA with an information leaflet describing the works, prior to them being undertaken. A copy of this leaflet is provided in **Appendix G**.

It was anticipated that shack owners may approach field staff during the works, with an interest in the program. The following procedures were adhered to during the field works to ensure an appropriate level of information was available to interested parties.

- Field staff were polite to all persons that approached the team.
- Field staff were permitted to provide the following general information:
  - works are being undertaken to assess the level of asbestos contamination within the shack communities, which includes the removal of some ACM as part of the process;
  - works are being undertaken in accordance with relevant guidelines and regulations;
  - works form part of a staged approach to remediation of the Site; and
  - where applicable, residents were advised to stay away from the work areas.
- Field staff had a copy of the information leaflet that was prepared by Parks and Wildlife in order that it may be provided to interested parties (as required).

- Further enquiries were directed at that time to Parks and Wildlife's Wedge and Grey Project Manager, Mr Steve Meyerkort.

During the Remedial DSI works, shack owners occasionally approached the field staff asking about the program. No concerns from the shack owners were reported by the field staff. It is understood the Remedial DSI report will be made available to the shack owners once finalised.

7.3 Regulator Consultation

An Auditor, Mr Tony Scott (Coffey Environments), has been engaged to independently review the works being undertaken at Wedge and Grey. The Auditor reviewed, commented on and endorsed the SAQP prior to conducting the site works. The Auditor was aware of the works program and conducted a site inspection during the Remedial DSI works. It was understood that the Auditor had no specific issues with the manner in which works were being undertaken but no formal feedback was provided. It is understood that the draft Remedial DSI Report will be reviewed and commented on by the Auditor prior to final endorsement and production of a Voluntary Audit Report.

The DoH (2011) *Guidance Note on the Assessment, Remediation and Management of Asbestos Contamination in Regional Public Areas* recommends that DoH is contacted for advice regarding the presence of asbestos in shack communities. DoH has been actively involved in the investigations at Wedge and Grey, including being part of an asbestos reference group for the Wedge and Grey Settlements. Parks and Wildlife are responsible for the provision of information from the investigations to DoH throughout the program. DoH attended a project kick-off meeting and was provided a copy of the draft SAQP for comment as appropriate. DoH was invited to attend the Pilot Trial at the Site and were unable to attend.

8.0 Investigation Results

8.1 ACM Identification and Removal

8.1.1 Wedge Settlement

The ACM identification and removal works at Wedge Settlement were conducted between the 19 July and 3 August 2016 by McElhinney Consulting. **Appendix D** presents the updated Asbestos Registers collated from the data recorded during the Remedial DSI at Wedge.

Each Zone and Area within each of the Zones (shack, track and common area) were systematically assessed in accordance with the procedures presented in **Appendix B** commencing in the southern portion of the settlement and progressively moving north. At the commencement of the program, surface water was pooled across a number of the tracks due to recent rainfall. However, these areas were able to be assessed towards the end of the works at Wedge, when the water had dried.

There were 370 structures assessed at Wedge and of these, a total of 285 were recorded as having no ACM identified within an approximate 10 m radius of the shack structure. A total of 85 shacks recorded ACM at one or more locations within an approximate 10 m radius of the shack structure (total of 154 individual records). ACM was also identified at 31 track locations and nine common areas within Wedge.

Identified ACM comprised scattered fragments ranging between 1 cm to 30 cm in size or larger sized quantities of fibre cement sheeting panels. The fibre cement sheeting panels generally included corrugated fence panels, flat or square corrugated wall panels and corner capping panels. There was one localised occurrence where friable ACM was recorded to be buried in a dune to the north of W012 (extent of impact not confirmed), noting that this area has been identified as “outstanding” and thus requiring future management (**Appendix H**).

ACM was identified and recorded at 194 locations throughout Wedge. Of the 194 locations, 157 of the records where ACM was identified, fell into the criteria for remediation during the Remedial DSI and were resolved.

Thirty-seven (37) records of identified ACM were classified as being “outstanding” based on the criteria presented in the procedures in **Appendix B** as follows:

- Mounds – Eight occurrences of mounds of material with ACM fragments observed buried throughout the mound. Mounds were generally no more than 1.5 m in height but varied between 1 m to 5 m in length and 1 m to 2 m in width.
- Buried ACM sheeting or smaller suspect ACM fragments at depths greater than 10 cm – Four occurrences.
- ACM sheeting larger than 1 m^2 in area – 13 occurrences
- ACM fragments scattered over an area larger than approximately 10 m^2 – 12 occurrences.

Appendix H presents a detailed summary of the above areas classified as “outstanding”. Photographs taken during the works are provided in **Appendix I**.

8.1.2 Grey Settlement

The ACM identification and removal works at Grey Settlement were conducted between the 4 and 19 August 2016 by McElhinney Consulting. **Appendix D** presents the updated Asbestos Registers collated from the data recorded during the Remedial DSI at Grey.

Each Zone and Area within each of the Zones (shack, track and common area) were systematically assessed in accordance with the procedures presented in **Appendix B** commencing in the northern portion of the settlement and progressively moving south.

There were 142 structures assessed at Grey and of these, a total of 85 were recorded as having no ACM identified within an approximate 10 m radius of the shack structure. A total of 57 shacks recorded ACM at one or more locations within an approximate 10 m radius of the shack structure (total of 108 individual records). ACM was also identified at 16 track locations and three common areas within Grey.

Identified ACM comprised scattered fragments ranging between 1 cm to 30 cm in size or larger sized quantities of discarded fibre cement sheeting. The fibre cement sheeting panels generally included corrugated fence panels, flat or square corrugated wall panels and corner capping panels. No friable asbestos was recorded at Grey. One occurrence of vinyl tiling was observed across a driveway at Grey and was sampled for asbestos confirmation.

ACM was identified and recorded at 127 locations throughout Grey. Of the 127 locations, 111 of the records where ACM was identified, fell into the criteria for remediation as part of the Remedial DSI and were resolved.

Sixteen (16) records of identified ACM were classified as being “outstanding” based on the criteria presented in the procedures in **Appendix B** as follows:

- Mounds – Three occurrences of mounds of material with ACM fragments observed buried throughout the mound. Mounds were generally sand dunes at Grey, with two of the shacks constructed on the mounds.
- Buried ACM sheeting or smaller ACM fragments at depths greater than 10 cm – Four occurrences.
- ACM sheeting larger than 1 m^2 in area – Eight occurrences.
- ACM fragments scattered over an area larger than approximately 10 m^2 – One occurrence.

Appendix H presents a detailed summary of the above areas classified as “outstanding”. Photographs taken during the works are provided in **Appendix I**.

8.1.3 ACM Removed

A total of 360 kg of ACM was removed from the Site during the Remedial DSI. The ACM was disposed at the Northam Landfill operated by Avon Waste and disposal dockets are provided in **Appendix E**.

The data recorded electronically has indicated that approximately 59 kg was removed from Wedge and 94 kg was removed from Grey. It should be noted that the final weight removed from the entire Site (as recorded at disposal) varies from the figures recorded upon collection for the two Sites, as some quantities of ACM collected (such as large sheets) were not able to be electronically weighed on site due to their larger size and are only included in the final disposal weight.

Figures 4.1 to 4.18 (Wedge) and **Figures 5.1 to 5.5** (Grey) illustrate areas surveyed and results of the ACM identification and removal works. It is noted that the shading included on these figures are approximate representations of the areas surveyed included for illustrative purposes only and are not designed to be perfectly accurate representations of the specific areas surveyed (or excluded). The degree of accuracy provided reflects limitations and practicalities with data recording and representation and is considered fit for purpose.

8.2 Representative ACM Sampling

As it was difficult to visually confirm the presence of asbestos in the suspect ACM, where it was considered informative representative ACM samples were collected and submitted to the laboratory for confirmatory asbestos analysis. Circumstances where asbestos identification was considered informative included situations where material was to be classified as “delayed” or “outstanding”, where relatively large quantities of material was involved or where there was particular uncertainty regarding the status of the material.

Samples were collected directly from the ACM using pliers with the field personnel wearing gloves and a P2 mask.

A total of 53 suspect ACM samples were submitted for laboratory analysis (26 from Wedge, 27 from Grey). Of the 26 samples of ACM material collected and analysed at Wedge, 10 were confirmed not to contain asbestos. Of the 27 samples of ACM material collected and analysed at Grey, nine were confirmed to not contain asbestos. **Table 1** in **Appendix J** presents the results of the ACM sampling. Laboratory certificates are provided in **Appendix K.**

Samples that did not detected asbestos and a description of the material and final classifications are detailed below in **Table 4**.

Table 4: Samples where asbestos was not detected

Sample[5]	Comment
Suspect ACM Sheeting – No Asbestos Detected (Resolved)	
W3_W99_007	Sample incorrectly labelled and should be W3_W95_007. Former shack footprint.
W10_W128_010	Suspect green ACM panel leaning against northern side of shack.
W5_W345_016	Suspect sheeting leaning against shack.
W15_W235_24	Suspect sheeting.
G2_S3_001	Suspect vinyl material on driveway of G53.
G5_G122_15	Suspect ACM concrete debris containing polystyrene balls.
G2_G40_21	Suspect ACM sheeting on dune, western side of shack.
G2_G40_22	Stockpiled sheeting southern side of shack.
G4_G109_002	Seven suspect ACM sheeting, possibly hardiflex.
Scattered or Buried Suspect ACM – No Asbestos Detected (Outstanding)	
W9_Track_012	Area still considered ‘outstanding’ due to large amount of suspect ACM scattered throughout track.
W5_W23_009	W23 remains ‘outstanding’ due to two occurrences of sheeting, with one not being able to be access for sample collection.
W10_W304_22	W304 still considered ‘outstanding’ due to large amount of suspect ACM scattered around the shack.
W10_W305_21	W305 still considered ‘outstanding’ due to large amount of suspect ACM scattered around the shack and access restrictions preventing sampling or removal.
W10_W304_25	W304 still considered ‘outstanding’ due to large amount of suspect ACM scattered around the shack.
W16_W207_26	W207 still considered ‘outstanding’ due to large area of scattered fragments north east of W207.
G5_G129_10	G129 still considered ‘outstanding’ due to large amount of suspect ACM scattered around the shack and within the dune the shack has been built on.
G5_G130_11	G130 still considered ‘outstanding’ due to large amount of suspect ACM scattered around the shack and within the dune the shack has been built on.
Scattered or Buried Suspect ACM – No Asbestos Detected (Resolved)	
G4_Track_14	These areas were remediated by McElhinney Consulting prior to receipt of laboratory results.
G4_G133_006	

[5] Sample nomenclature comprised the zone (i.e. map number), followed by area reference (i.e. shack identification or track), followed by a sequential sample. For example, W3_W99_007 references Wedge Map 1, Shack 99, sample number 7.

Due to the absence of detected asbestos in some suspect sheeting material, these locations have been classified as “resolved”. Where asbestos was not detected in samples from areas of scattered material, these have remained classified as “outstanding” due to the varied nature of the material identified unless they were otherwise remediated (“resolved”).

8.3 AF Assessment

The AF assessment was undertaken at 12 shacks located throughout the Site which were chosen based on their characteristics being suited to the scenarios being assessed as detailed in **Section 6.5**. Samples from each shack were collected where AF was considered most likely (e.g. where roof water runoff would be expected to fall, immediately adjacent to each shack or in close proximity to the particular building material of interest) and then “stepped out” at approximately 0.5 m intervals from the targeted area to at least 3 m from the structure as a means of delineating impact (if present).

Samples scheduled for analysis initially were those closest to the structure and those between 0.5 m and 1 m from the structure where fibres were suspected to most likely be present in the soil. The remainder of the samples collected were either scheduled for analysis based on the initial results or not scheduled and held at the laboratory.

The results of the sampling are shown on **Figure 6** and **Figure 7** and **Table 2** and **Table 3** (**Appendix J**) and are summarised below. Laboratory certificates are provided in **Appendix K**.

8.3.1 Scenario 1 - High Potential

Two locations from Wedge (W013 and W099) and two locations from Grey (G028 and G092) were sampled to assess for the presence of AF in soils in the vicinity of shacks classified as having a ‘High Potential’ for AF in soils, being shacks with moderately damaged or deteriorated ACM rooves.

Samples were collected on a targeted (or judgemental) basis with a view to sampling areas where AF in soils were considered most likely (if present) based considerations such as the structure of the shack (i.e. location and pitch of roof, presence of guttering etc.), topography (e.g. slopes, drainage areas etc.) and within the specific logistical restraints that may have been relevant (e.g. accessibility).

Samples were collected from the north-eastern side of W013 as this was the only side of the shack that could be accessed which contained bare soils where possible runoff from the ACM roof was evident. Evidence of runoff from the roof (drip lines) were identified on this side of the shack. Sampling locations for W013 are shown on Plate 4 (**Appendix I**).

Samples were collected from the eastern side of W099 as this was the only side of the house which contained an ACM roof. The roof on the north, west and southern sides was constructed of steel. Evidence of runoff from the roof (drip lines) were identified on this side of the shack.

Samples were collected from the southern side of G028, where runoff from the ACM roof was identified (drip lines and runoff lines) and thus the highest probability of identifying AF from the damaged ACM roof. Samples extended out from the shack and continued down two visible runoff lines. A number of ACM fragments were identified in the vicinity of the sampling locations at G028 however field staff took care not to collect any ACM fragments within the soil samples.

Samples were collected from the southern side of G092. This was due to access restrictions on the other three sides of this shack.

AF was detected in four samples collected from the vicinity of W013 and six samples from W099. AF was identified immediately adjacent to the shack structure, within the inferred dripline, and extended approximately 3 m away from the structure at both locations. Samples collected from further than 3m from W013 and W099 did not contain AF. The descriptions provided by the laboratory indicate that samples from W13 and W099 included asbestos containing fibre bundles and asbestos containing fibrous material.

AF was detected in one sample collected from within the dripline adjacent to G028, with no AF reported in any of the other samples analysed immediately adjacent to the shack or from around G028. The description provided by the laboratory indicates that the sample contained bonded and friable asbestos cement sheeting / fragments.

One sample at G092 collected from approximately 1 m from the shack structure detected AF, with no AF identified in any of the other samples analysed immediately adjacent to the shack or from around G092. The description provided by the laboratory indicates that the sample contained "*one fragment of bonded asbestos cement sheeting*".

8.3.2 Scenario 2 - Medium Potential

Four locations from Wedge (W055, W149, W162 and W245) and two locations from Grey (G103 and G009) were sampled to assess for the presence of AF in soils in the vicinity of shacks classified as having a 'Medium Potential' for AF in soils. These shacks included two types: those that had ACM rooves in reasonable condition; and or those that had ACM within the structure but without an ACM roof.

ACM rooves

Samples were collected from the south-west side of W055, the eastern side of W162 and the north-western side of G103, where runoff from the ACM roof appeared most predominant.

No AF was identified in any of the samples collected and analysed from the vicinity of W055 or G103.

One sample located immediately adjacent to W162 within the inferred dripline detected AF, with no AF identified in any of the other samples analysed immediately adjacent to the shack or from around W162. The description provided by the laboratory indicates that the sample contained "*an asbestos containing fibro fragment approximately 10 x 5 x 1 mm*".

ACM within structure but not within roof

Samples were collected from the eastern side of W149 as this was the only side of the shack that could be accessed which contained bare soils.

Two out of three samples collected from immediately adjacent the shack structure within the inferred dripline at W149 contained AF. The description provided by the laboratory indicates that the samples contained "*one fragment of bonded asbestos cement sheeting approximately 5 x 3 x 3 mm*" and "*three pieces of bonded asbestos cement sheeting with friable edges ranging from approximately 5 x 5 x 4 mm to 25 x 12 x 3 mm"*. The extent of the AF was limited to the soils immediately adjacent to the structure, as samples collected 1m from the structure did not contain AF.

At W245 the ACM present was limited to an ACM fence located approximately 5 m north of the shack and as such, samples were collected immediately adjacent to the fence and then stepped out to approximately 4 m from the fence. Sampling locations for W245 are shown on Plate 5 (**Appendix I**).

One sample immediately adjacent the ACM fence at W245 contained AF, however no AF was identified in any of the other samples analysed immediately adjacent the fence or extending out from the fence. The description provided by the laboratory indicates that the sample contained "*five fragments of friable asbestos cement sheeting approximately 4 x 3 x 2 mm*".

Samples were collected from the western side of G009 due to access restrictions on all other sides of the shack. Sampling locations for G009 are shown on Plate 23 (**Appendix I**).

AF was not identified in the four samples collected immediately adjacent to G009. AF was however detected in nine other samples collected from the vicinity of the shack. Of these nine samples, three were located 0.5 m from the shack structure, three at least 1 m away and three between 1.5 m and 2 m from the shack structure. A number of ACM fragments were present in this area which were subsequently removed as part of the remedial works (total of 98 g of ACM removed). It is speculated that the AF identified was associated with ACM other than that within the built structure. The descriptions provided by the laboratory supports this inference, with all nine samples containing bonded or friable asbestos cement sheeting or asbestos containing fibro fragments.

8.3.3 Scenario 3 – Low Potential (Background / Control)

One location from Wedge (W170) and one location from Grey (G067) were sampled to assess for the presence of AF in soils in the vicinity of shacks classified as having a 'Low Potential' for AF in soils. These shacks did not have ACM present within the structure or the roof of the shacks.

Samples were collected from the northern and eastern sides of W170 and the north-western side of G067. Samples were targeted towards locations of driplines and runoff from these shacks (Plate 3 and Plate 24, **Appendix I**).

AF was not identified in any of the samples analysed from the vicinity of W170 or G067.

8.3.4 Summary of AF Sampling

A summary of where AF was detected in the samples is provided in **Table 5**. This table has been designed as a summary of results with respect to the objectives of this aspect of the assessment (i.e. whether or not the presence and predominance of AF could be differentiated by shack type).

Table 5: Summary of AF Sampling

Scenario	Number of Samples that Contained AF (Shack ID)				Total
High	6 (W099)	4 (W013)	1 (G092)	1 (G028)	12
Medium (roof)	1 (W162)	0 (W55)	0 (G103)		1
Medium (structure)	1 (W245)	2 (W149)	9 (G009)		12
Low	0 (W170)	0 (G67)			0

As noted above, the number of samples containing asbestos at G009 may be associated with an issue unrelated to shack construction (i.e. broken ACM from another source) and this possibility is supported by the nature of the asbestos detected by the laboratory. On this basis, it is considered reasonable to cautiously exclude this location from considerations associated with the broader assessment (i.e. as a potentially confounding variable).

It is also noted that AF identified more generally, varied in nature and this is assumed to reflect the different building material types and nature of degradation but it is also worth noting that no free fibres were detected in any samples (recognising that the limit of reporting for free fibres was five fibres).

9.0 Quality Assurance/Quality Control

The objective of conducting Quality Assurance/Quality Control (QA/QC) is to provide an assessment of the accuracy, precision, reliability, and completeness of the data presented for interpretation for the project.

QA involves all of the actions, procedures, checks and decisions, undertaken to ensure the representativeness and integrity of samples and accuracy and reliability of analytical results. QC involves protocols to monitor and measure the effectiveness of QA procedures.

9.1 Quality Assurance / Quality Control Elements

The QA/QC elements presented in **Table 6** were adopted during the investigation.

Table 6: QA/QC Program

Element	Description
Field Personnel	Field work was undertaken by suitably trained personnel with experience in asbestos investigations / remediation, field sampling techniques and health and safety issues.
Laboratories	Laboratory analysis was completed by ALS, a NATA accredited laboratory, in accordance with the procedures documented in DoH (2009) *Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia*.
Limits of Reporting	Appropriate limits of reporting (LORs) were provided by the laboratory to ensure that the guidelines can be met.
Record Keeping	Full records of field activities, including daily activity logs and chains of custody were maintained.
Sample Collection	Soil samples were collected directly into zip-lock bags. Sample preservation will be in accordance with standard laboratory protocols.
Sample Labelling	A unique sample number was used for each sample location to clearly differentiate each sample and assist in the assessment.
Chain of Custody	Sample details were entered on to a chain of custody form that accompanied the samples to the laboratory. All samples were transported and handled following chain of custody procedures A chain of custody form was used for every batch of samples submitted to the laboratory. Chain of custody sheets recorded details of: project name/number, sample numbers, date of collection, sampler, analysis required and required limits of reporting.
QC Sampling	The investigation was limited to asbestos, as such no QC samples were collected.
Verification	The lead scientist undertook an independent review of a select number of locations on a weekly basis to verify the works and field records. Each record classified as a “Delay” or “Outstanding” was also checked by the lead scientist. The sample locations for checking were randomly selected across different areas (i.e. shacks, tracks, common areas, no ACM reported, areas that have been remediated, etc.). Verification comprised review of daily field records followed by inspection of the Site to confirm the status reconciled with daily field records The results from verification was recorded on daily field sheets.

9.2 Data Quality Indicators

A summary of the DQIs for the investigation are presented in **Table 7**.

Table 7: Data Quality Indicators

Data Quality Indicator	Required	Undertaken
Precision	Sampling methodologies were appropriate.	Sampling undertaken in accordance with Procedures and SAQP as evidenced in **Appendix C**.
Accuracy	Sampling methodologies were appropriate.	Sampling undertaken in accordance with Procedures and SAQP as evidenced in **Appendix C**.
Representativeness	Appropriate media sampled.	Sampling was undertaken as per the SAQP and additional ACM sampling was conducted where it was considered informative.
Comparability	Same sampling methodologies used on each day of sampling. Experienced sampler. Same types of samples collected.	Sampling undertaken in accordance with Procedures and as evidenced in **Appendix C**. Consistent field personnel used for sampling.
Completeness	All critical locations sampled. Experienced sampler. Documentation correct and complete. Sampling methodologies are appropriate and complied with.	Experienced sampler used as evidenced in Appendix F. Sampling undertaken in accordance with Procedures and SAQP as evidenced in **Appendix C**.

9.3 Summary

A review of field and laboratory procedures indicates compliance with the general project requirements and DQOs as detailed in the SAQP. As such it is considered that the data is considered usable for the purposes of this investigation.

10.0 Risk Assessment

10.1 ACM Identification and Removal

The Remedial DSI has inherently reduced the risk from ACM across the Site, with a total of 360 kg of ACM removed from the most frequently used areas of the settlements. The majority of the instances of ACM removed were occurrences of scattered small fragments of ACM surrounding the shacks.

At Wedge, 157 out of 197 occurrences of ACM were removed and classified as “resolved” and at Grey 111 out of 127 occurrences of ACM were removed and classified as “resolved”. It is noted that ‘resolved’ means addressed to the extent provided for within the limitations of this project (i.e. including to the extent that the area was visually clear of bulk ACM at the completion of works) and should not be construed to mean remediated to a recognised acceptable level for the reasons detailed in **Section 1.2**.

Results of the representative suspect ACM sampling indicated that it was not possible to visually distinguish between materials that did or did not contain ACM in every circumstance, with 19 out of 53 suspect ACM samples revealed to not contain asbestos. It should be noted that this statistic is not perfectly illustrative of this issue since in some cases material was sampled to confirm the suspected absence of ACM but nonetheless, the general conclusion stands and should be recognised associated with future management decisions.

There are a number of occurrences (53) that remain classified as “outstanding” at both Wedge and Grey (i.e. 37 at Wedge and 16 at Grey). Twenty-one of these are stacks of ACM sheeting, which were generally observed as being in good to fair condition and as such, are considered to pose a low risk to the current shack residents and recreational users at the Site in their current state.

Other “outstanding” issues include areas of scattered ACM pieces >10 m^2 and ACM buried within mounds/stockpiles.

There was only a single localised occurrence of friable asbestos identified at the Site (north of W012), that remains “outstanding”.

The “outstanding” issues will need to be resolved to meet the long-term management goals for the Site. Similarly, due to the dynamic nature of both the environment and activities within the communities it is possible that ACM will continue to manifest in those areas where it was either not identified or was removed during this project.

10.2 AF Assessment

The AF assessment allows for it to be tentatively concluded that shacks with ACM rooves and/or gutters in deteriorated condition (some 46 shacks) are likely to be associated with AF in soils in the near vicinity of the shack.

It may also be tentatively concluded that shacks without ACM in their construction are unlikely to be associated with AF in soils in their vicinity.

That is, AF is likely closely associated with degraded asbestos building materials rather than being more widely distributed around the settlements. It is also noted that AF identified was as small fragments of ACM or fibre bundles rather than free fibres that tend to be more prone to becoming airborne and respirable and therefore represent a greater risk.

It is more difficult to draw useful conclusions from the assessment of the medium potential shacks although it is clear that in some cases AF in soil in the vicinity of these types of shacks does occur. With the exception of the single example where AF presence was the most extensive identified (G009), there is some indication that the prevalence of AF associated with the medium potential sites is less than the high potential sites. This is supported by the possibility that AF identified at G009 may be associated with a source other than the existing built structure (i.e. a confounding variable).

In all cases where AF was identified its extent appears limited to the near vicinity of the shacks and was not identified to extend beyond 3 m from the structure.

The presence of AF in soils in the vicinity of shacks associated with ACM within their external structure should be considered as part of a further health risk assessment.

11.0 Conceptual Site Model

A CSM describes the potential environmental and human health risks of identified areas of possible contamination. The CSM outlines the potential links between known or potential areas of contamination (or sources) and potential receptors via pathways for potential contamination migration.

The CSM follows a source-pathway-receptor framework:

1) sources are considered to be occurrences of potentially hazardous substances;
2) receptors are entities that may be exposed to sources; and
3) pathways between a source and receptor are considered to be ways that sources could interact with receptors (often considered in terms of both migration and exposure mechanisms).

The potential pollutant linkages are presented in **Table 5**.

The CSM presented in this Remedial DSI is limited to asbestos only. There are a number of other potential sources of contamination identified in the PSI (GHD 2014) that may require consideration associated with Parks and Wildlife's broader objectives for the settlements.

As anticipated, the Remedial DSI has not resulted in a significant refinement to the CSM in terms of identifying or eliminating potential pollutant linkages due to the limited nature of the works undertaken.

Nonetheless, provided below in **Table 5** is a refined CSM based on the works undertaken.

Table 5: Refined Conceptual Site Model

Source	Pathway	Receptor	Potential Linkage?	Remedial DSI Refinement
Surficial ACM fragments within the shack communities (surrounding shacks, common areas and on tracks).	Degradation of ACM to a point where asbestos fibres may become airborne. Inhalation of asbestos fibres.	Current shack residents, recreational visitors and Parks and Wildlife workers and contractors.	✓	Targeted reduction in source material (removal of surficial ACM as part of this project) has broadly reduced exposure potential. Identified areas of remaining asbestos have been located and described to aid future management.
Asbestos fibres associated with drip lines and runoff from gutters.	Inhalation of asbestos fibres.	Current shack residents, recreational visitors and Parks and Wildlife workers and contractors.	✓	Potential for exposure confirmed and characterised in more detail as part of AF assessment. AF has been tentatively shown to be more predominant in the near vicinity of shacks containing degraded ACM materials (inferred to include some 52 shacks). AF appears to not be widespread and rather limited to within 3m of structures containing ACM. AF as free fibres were not detected.

12.0 Conclusions and Recommendations

12.1 Conclusions

The Remedial DSI was undertaken in accordance with the scope of work, procedures and methodology presented in the SAQP (Senversa, 2016), detailed in this report (including within **Appendix B**).

ACM Impacts and Remediation

The works successfully built on the existing characterisation of ACM impacts to soil to vastly improve the overall understanding of the nature and extent of asbestos impacts at the two settlements. This was achieved through the completion of a comprehensive, detailed, methodical, consistent and thoroughly documented site survey that resulted in the identification of all identifiable asbestos within the surveyed area (within the bounds of the scope of work and methodological limitations).

With the exception of those circumstances where identified ACM was not removed (37 locations at Wedge and 16 locations at Grey) all identified asbestos within the surveyed area was removed.

The removal of 360 kg of ACM from the most frequented areas of the settlements has inherently reduced the risk of exposure to asbestos for relevant receptors (current shack residents, recreational visitors and Parks and Wildlife workers and contractors).

The identification and preliminary characterisation of those circumstances where asbestos was not removed provides a valuable basis for further remedial planning and works.

AF Impacts

Shacks containing ACM may be associated with AF in soils in their near vicinity as a result of degradation of the ACM building materials. The propensity for AF to be present near shacks appears in general terms to be influenced by the nature of building materials containing ACM and the condition of these materials.

It is reasonable to infer that shacks with ACM rooves and/or gutters in deteriorated condition are most likely to be associated with AF in soils in their vicinity. Conversely, shacks with no ACM in their construction materials appear less likely to be associated with AF in soil implying that AF in soil is directly related to shack materials and the near vicinity of shacks.

The limited survey undertaken associated with this aspect, together with the lack of clear distinction between two of the scenarios tested (high and medium potential) and the variability in some of the results achieved means the conclusions of this assessment should be considered as a preliminary indication of potential relationships between shack types and AF presence only.

Whilst conclusions are inherently tentative it appears that the limited assessment undertaken may provide a sound basis for future management planning in that it is apparent:

- AF in the vicinity of some shacks is clearly an issue that requires further management consideration;
- AF is not widespread within the communities but rather directly associated with the immediate vicinity of locations of aging, weathered and deteriorated ACM; and
- confident inferences as to which areas of AF impact require prioritised management may be made based on existing information relating to shack type meaning the need for comprehensive and widespread AF assessment may be reduced.

12.2 Recommendations

Based on the above conclusions the recommendations summarised below are made.

- Consideration should be given to the appropriate management/remediation of those 53 ACM issues that remain outstanding from this work. The manner in which this work should be prioritised will involve a range of considerations by Parks and Wildlife but priority based on the relative risk represented should be one of these (noting that there did not appear to be a wide range of relative risk and no instances where immediate action appeared warranted).
- Since this project represents an intermediate and discrete stage in the overall progress toward satisfactory remediation and management of asbestos issues at the Site, it is likely additional assessment and/or remediation designed to confirm achievement of recognised remedial end points will be required prior to seeking reclassification under the Contaminated Sites Act 2003. For example, it is common under circumstances comparable to that at the two communities for works similar to that undertaken as part of this project to need to be repeated (in some form), sometimes more than once before confident conclusions can be drawn regarding the success of remediation.
- Consideration should be given to assessment and management of risk associated with AF in the vicinity of shacks containing ACM which could include the following:
    - an expansion of the AF assessment undertaken to improve confidence in the conclusions and inferences capable of being made particularly in relation to the medium potential shack types and the level of risk represented by AF in the vicinity of shacks;
    - development of a soil remediation and management plan in consultation with relevant stakeholders if required following further assessment as noted at i. above; and
    - undertake remedial works for AF (if necessary as noted at ii. above), taking into consideration future management proposed for the Site.

13.0 Principles and Limitations of Investigation

The following principles are an integral part of site contamination assessment practices and are intended to be referred to in resolving any ambiguity or exercising such discretion as is accorded the user or site assessor.

Area	Field Observations and Analytical Results
Elimination of Uncertainty	Some uncertainty is inherent in all site investigations. Furthermore, any sample, either surface or subsurface, taken for chemical testing may or may not be representative of a larger population or area. Professional judgment and interpretation are inherent in the process, and even when exercised in accordance with objective scientific principles, uncertainty is inevitable. Additional assessment beyond that which was reasonably undertaken may reduce the uncertainty.
Failure to Detect	Even when site investigation work is executed competently and in accordance with the appropriate Australian guidance, such as the National Environmental Protection (Assessment of Site Contamination) Amendment Measure ('the ASC NEPM'), it must be recognised that certain conditions present especially difficult target analyte detection problems. Such conditions may include, but are not limited to, complex geological settings, unusual or generally poorly understood behaviour and fate characteristics of certain substances, complex, discontinuous, random, or heterogeneous distributions of existing target analytes, physical impediments to investigation imposed by the location of services, structures and other man-made objects, and the inherent limitations of assessment technologies.
Limitations of Information	The effectiveness of any site investigation may be compromised by limitations or defects in the information used to define the objectives and scope of the investigation, including inability to obtain information concerning historic site uses or prior site assessment activities despite the efforts of the user and assessor to obtain such information.
Level of Assessment	The investigation herein should not be considered to be an exhaustive assessment of environmental conditions on a property. There is a point at which the effort of information obtained and the time required to obtain it outweigh the benefit of the information gained and, in the context of private transactions and contractual responsibilities, may become a material detriment to the orderly conduct of business. If the presence of target analytes is confirmed on a property, the extent of further assessment is a function of the degree of confidence required and the degree of uncertainty acceptable in relation to the objectives of the assessment.
Comparison with Subsequent Inquiry	The justification and adequacy of the investigation findings in light of the findings of a subsequent inquiry should be evaluated based on the reasonableness of judgments made at the time and under the circumstances in which they were made.
Data Useability	Investigation data generally only represent the site conditions at the time the data were generated. Therefore, the usability of data collected as part of this investigation may have a finite lifetime depending on the application and use being made of the data. In all respects, a future reader of this report should evaluate whether previously generated data are appropriate for any subsequent use beyond the original purpose for which they were collected, or are otherwise subject to lifetime limits imposed by other laws, regulations or regulatory policies.
Nature of Advice	The investigation works herein are intended to develop and present sound, scientifically valid data concerning actual site conditions. Senversa does not seek or purport to provide legal or business advice.

14.0 References

Aurora Environmental (2015) Asbestos Assessment and Preliminary Management Plan – Wedge and Grey Settlements, Shire of Dandaragan. 10 November 2015.

Aurora Environmental (2016) Additional Soil Sampling and Wedge and Grey Reserves. 31 March 2016.

Department of Environment Regulation (2014) Assessment and management of contaminated sites.

Department of Health (2009) Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia.

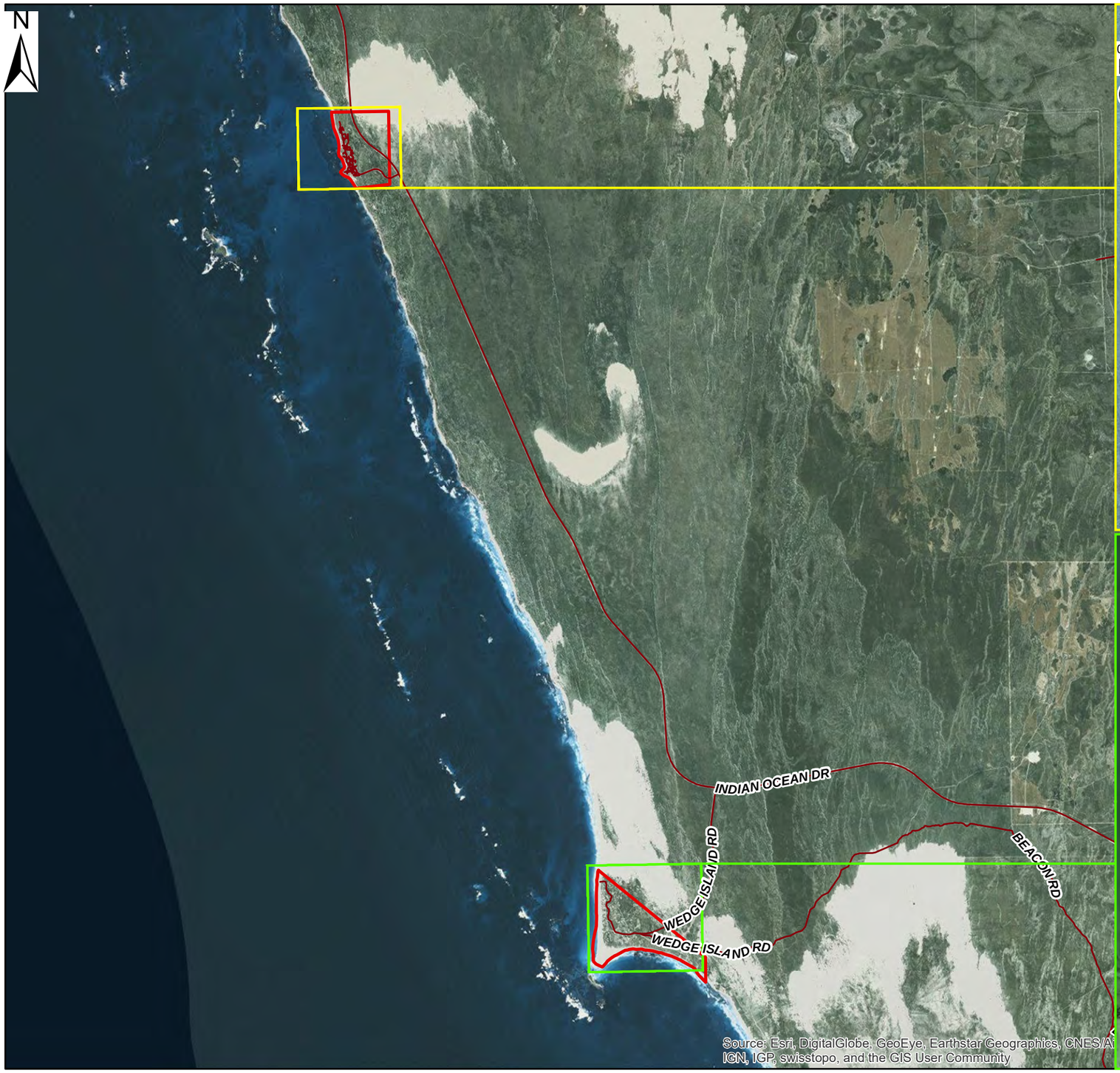
Department of Health (2011) Guidance Note on the Assessment, Remediation and Management of Asbestos Contamination in Regional Public Areas.

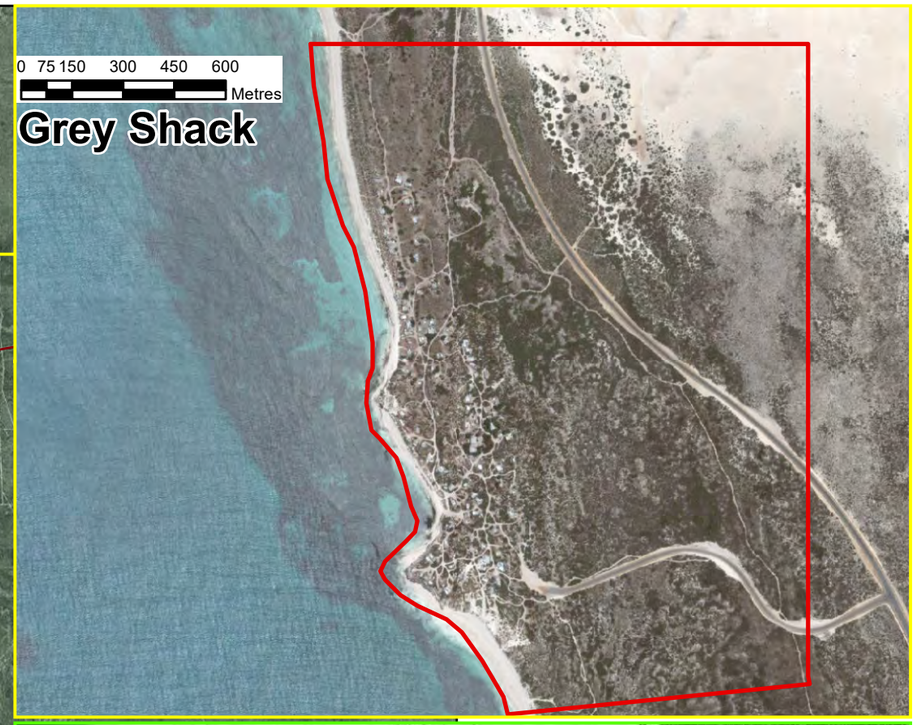
GHD (2014) Contamination Investigations at the Wedge and Grey Squatter Shack Communities. Preliminary Site Investigation. January 2014.

National Environment Protection Council (1999) National Environment Protection (Assessment of Site Contamination) Measure (as amended and in force 16 May 2013).

Senversa (2016) Sampling and Analysis Quality Plan Wedge and Grey Shack Settlements. July 2016.

Figures





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senversa
Address: Level 25, 108 St Georges Terrace, Perth WA 6000
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Fax: (03) 9606 0074
Website: www.senversa.com.au

Legend

Reserve Boundary

Notes:
Aerial imagery sourced from ESRI and DPaW

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0 1,000 2,000 4,000 6,000 8,000 Metres

Datum GDA 1994, Projection MGA Zone 50

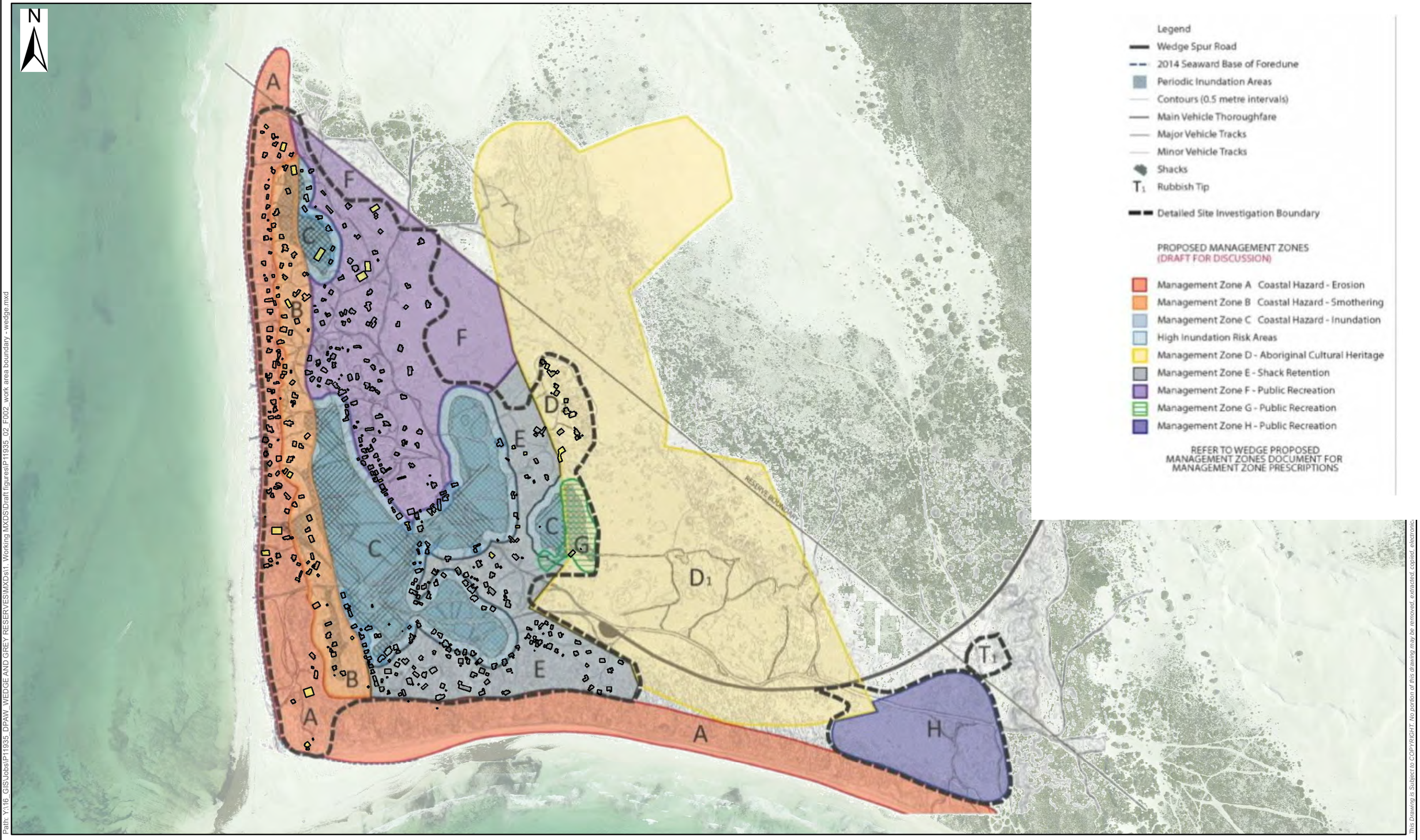
Figure No: 1

Title: Site Location Plan

Project: Remedial Detailed Site Investigation

Location: Wedge and Grey Shack Settlements

Client: Department of Parks and Wildlife



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Legend
Current Shack Location
Former Shack Location

Figure obtained from Figure 2 - Work Area Boundary - Wedge, Detailed Site Investigation, Department of Parks and Wildlife

Notes:
Aerial imagery sourced from Nearmap Pty Ltd

Designed:	S. Horgan	Date:	31/08/2016
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Datum GDA 1994, Projection MGA Zone 50

Figure No: 2
Title: Work Area Boundary - Wedge
Project: Remedial Detailed Site Investigation
Location: Wedge and Grey Shack Settlements
Client: Department of Parks and Wildlife

N

Z

W

X

Y

V

T_2

Legend

- Indian Ocean Drive
- Grey Spur Road
- Main Vehicle Thoroughfare
- Major Vehicle Tracks
- Minor Vehicle Tracks
- Shacks and Tanks
- Contours (1 metre Intervals)
- T_2 Rubbish Tip
- Detailed Site Investigation Boundary

PROPOSED MANAGEMENT ZONES (DRAFT FOR DISCUSSION)

- Management Zone V Coastal Hazard - Erosion and Inundation
- Management Zone W Coastal Hazard - Erosion
- Management Zone X Shack Retention Zone
- Management Zone Y Public Recreation
- Management Zone Z Public Recreation

REFER TO GREY PROPOSED MANAGEMENT ZONES DOCUMENT FOR MANAGEMENT ZONE PRESCRIPTIONS

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Legend

- Current Shack Location
- Former Shack Location

Figure obtained from Figure 3 - Work Area Boundary - Grey, Detailed Site Investigation, Department of Parks and Wildlife

Aerial imagery sourced from DPaW

Designed:	S. Horgan	Date:	31/08/2016
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0 25 50 100 150 200 Metres

Datum GDA 1994, Projection MGA Zone 50

Figure No:	**3**
Title:	**Work Area Boundary - Grey**
Project:	Remedial Detailed Site Investigation
Location:	Wedge and Grey Shack Settlements
Client:	Department of Parks and Wildlife

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Legend

- No ACM identified
- ACM identified but classified as resolved
- ACM identified but classified as outstanding
- Maps 4.1-4.18 Extent
- Current Shack Location
- Former Shack Location

Aerial imagery sourced from DPaW

Designed:	S. Horgan	Date:	29/03/2017
Drawn:	S. Koroblitsas	Revision:	0
Checked:		Scale:	1:5,000 (A3)
File:	P11935_02_F004_ACM Assessment wedge		

0 25 50 100 150 200 Metres

Datum GDA 1994, Projection MGA Zone 50

Figure No: 4

Title: Wedge ACM Assessment

Project: Remedial Detailed Site Investigation

Location: Wedge and Grey Shack Settlements

Client: Department of Parks and Wildlife

senversa
Address: Level 25, 108 St Georges Terrace, Perth WA 6000
Phone: (08) 6557 8881
Fax: (03) 9606 0074
Website: www.senversa.com.au

Legend

- No ACM identified
- ACM identified but classified as resolved
- ACM identified but classified as outstanding
- Current Shack
- Assessed Area Wedge
- Former Shack

Notes:
Aerial imagery sourced from DPaW

Designed:	S. Horgan	Date:	15/09/2016
Drawn:	S. Koroblitsas	Revision:	0
Checked:	.	Scale:	1:1,100 (A3)
File:	P11935_02_F004-18_ACM Assess and IR maps -wedge		

0 5 10 20 30 40 Metres

Datum GDA 1994, Projection MGA Zone 50

Figure No: 4.01

Title: Wedge ACM Assessment & Identification Records Maps

Project: Remedial Detailed Site Investigation

Location: Wedge and Grey Shack Settlements

Client: Department of Parks and Wildlife

Path: Y:\16_GIS\Jobs\P11935_DPAW_WEDGE AND GREY RESERVES\MXDs\1. Working MXDS\Draft figures\P11935_02_F004-18_ACM Assess and IR maps -wedge.mxd

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Legend

- No ACM identified
- ACM identified but classified as resolved
- ACM identified but classified as outstanding
- Current Shack
- Assessed Area Wedge
- Former Shack

Notes:
Aerial imagery sourced from DPaW

Designed:	S. Horgan	Date:	15/09/2016
Drawn:	S. Koroblitsas	Revision:	0
Checked:	.	Scale:	1:1,100 (A3)
File:	P11935_02_F004-18_ACM Assess and IR maps -wedge		

0 5 10 20 30 40 Metres
Datum GDA 1994, Projection MGA Zone 50

Figure No: 4.02

Title: Wedge ACM Assessment & Identification Records Maps

Project: Remedial Detailed Site Investigation

Location: Wedge and Grey Shack Settlements

Client: Department of Parks and Wildlife

Path: Y:\16_GIS\Jobs\P11935_DPAW_WEDGE AND GREY RESERVES\MXDs\1. Working MXDS\Draft figures\P11935_02_F004-18_ACM Assess and IR maps -wedge.mxd

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Legend

- No ACM identified
- ACM identified but classified as resolved
- ACM identified but classified as outstanding
- Current Shack
- Assessed Area Wedge
- Former Shack

Notes:
Aerial imagery sourced from DPaW

Designed:	S. Horgan	Date:	15/09/2016
Drawn:	S. Koroblitsas	Revision:	0
Checked:	.	Scale:	1:1,100 (A3)
File:	P11935_02_F004-18_ACM Assess and IR maps -wedge		

0 5 10 20 30 40 Metres
Datum GDA 1994, Projection MGA Zone 50

Figure No: 4.03

Title: Wedge ACM Assessment & Identification Records Maps

Project: Remedial Detailed Site Investigation

Location: Wedge and Grey Shack Settlements

Client: Department of Parks and Wildlife

Path: Y:\16_GIS\Jobs\P11935_DPAW_WEDGE AND GREY RESERVES\MXDs\1. Working MXDS\Draft figures\P11935_02_F004-18_ACM Assess and IR maps -wedge.mxd

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Legend

- No ACM identified
- ACM identified but classified as resolved
- ACM identified but classified as outstanding
- Current Shack
- Assessed Area Wedge
- Former Shack

Notes:
Aerial imagery sourced from DPaW

Designed:	S. Horgan	Date:	15/09/2016
Drawn:	S. Koroblitsas	Revision:	0
Checked:	.	Scale:	1:1,100 (A3)
File:	P11935_02_F004-18_ACM Assess and IR maps -wedge		

0 5 10 20 30 40 Metres
Datum GDA 1994, Projection MGA Zone 50

Figure No: 4.04

Title: Wedge ACM Assessment & Identification Records Maps

Project: Remedial Detailed Site Investigation

Location: Wedge and Grey Shack Settlements

Client: Department of Parks and Wildlife

Path: Y:\16_GIS\Jobs\P11935_DPAW_WEDGE AND GREY RESERVES\MXDs\1. Working MXDS\Draft figures\P11935_02_F004-18_ACM Assess and IR maps -wedge.mxd

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Legend

- No ACM identified
- ACM identified but classified as resolved
- ACM identified but classified as outstanding
- Current Shack
- Assessed Area Wedge
- Former Shack

Notes:
Aerial imagery sourced from DPaW

Designed:	S. Horgan	Date:	15/09/2016
Drawn:	S. Koroblitsas	Revision:	0
Checked:	.	Scale:	1:1,100 (A3)
File:	P11935_02_F004-18_ACM Assess and IR maps -wedge		

0 5 10 20 30 40 Metres
Datum GDA 1994, Projection MGA Zone 50

Figure No: 4.05

Title: Wedge ACM Assessment & Identification Records Maps

Project: Remedial Detailed Site Investigation

Location: Wedge and Grey Shack Settlements

Client: Department of Parks and Wildlife

Path: Y:\16_GIS\Jobs\P11935_DPAW_WEDGE AND GREY RESERVES\MXDs\1. Working MXDS\Draft figures\P11935_02_F004-18_ACM Assess and IR maps -wedge.mxd

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Legend

- No ACM identified
- ACM identified but classified as resolved
- ACM identified but classified as outstanding
- Current Shack
- Assessed Area Wedge
- Former Shack

Notes:
Aerial imagery sourced from DPaW

Designed:	S. Horgan	Date:	15/09/2016
Drawn:	S. Koroblitsas	Revision:	0
Checked:	.	Scale:	1:1,100 (A3)
File:	P11935_02_F004-18_ACM Assess and IR maps -wedge		

0 5 10 20 30 40 Metres
Datum GDA 1994, Projection MGA Zone 50

Figure No: 4.06

Title: Wedge ACM Assessment & Identification Records Maps

Project: Remedial Detailed Site Investigation

Location: Wedge and Grey Shack Settlements

Client: Department of Parks and Wildlife

Path: Y:\16_GIS\Jobs\P11935_DPAW_WEDGE AND GREY RESERVES\MXDs\1 Working MXDS\Draft figures\P11935_02_F004-18_ACM Assess and IR maps -wedge.mxd

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Legend

- No ACM identified
- ACM identified but classified as resolved
- ACM identified but classified as outstanding
- Current Shack
- Assessed Area Wedge
- Former Shack

Notes:
Aerial imagery sourced from DPaW

Designed:	S. Horgan	Date:	15/09/2016
Drawn:	S. Koroblitsas	Revision:	0
Checked:	.	Scale:	1:1,100 (A3)
File:	P11935_02_F004-18_ACM Assess and IR maps -wedge		

0 5 10 20 30 40 Metres
Datum GDA 1994, Projection MGA Zone 50

Figure No: 4.07

Title: Wedge ACM Assessment & Identification Records Maps

Project: Remedial Detailed Site Investigation

Location: Wedge and Grey Shack Settlements

Client: Department of Parks and Wildlife

Path: Y:\16_GIS\Jobs\P11935_DPAW_WEDGE AND GREY RESERVES\MXDs\1. Working MXDs\Draft figures\P11935_02_F004-18_ACM Assess and IR maps -wedge.mxd

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Website: www.senversa.com.au

Legend

- No ACM identified
- ACM identified but classified as resolved
- ACM identified but classified as outstanding
- Current Shack
- Assessed Area Wedge
- Former Shack

Notes:
Aerial imagery sourced from DPaW

Designed:	S. Horgan	Date:	15/09/2016
Drawn:	S. Koroblitsas	Revision:	0
Checked:	.	Scale:	1:1,100 (A3)
File:	P11935_02_F004-18_ACM Assess and IR maps -wedge		

0 5 10 20 30 40 Metres
Datum GDA 1994, Projection MGA Zone 50

Figure No: 4.08

Title: Wedge ACM Assessment & Identification Records Maps

Project: Remedial Detailed Site Investigation

Location: Wedge and Grey Shack Settlements

Client: Department of Parks and Wildlife

Path: Y:\16_GIS\Jobs\P11935_DPAW_WEDGE AND GREY RESERVES\MXDs\1. Working MXDS\Draft figures\P11935_02_F004-18_ACM Assess and IR maps -wedge.mxd

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Phone: (08) 6557 8881
Fax: (03) 9606 0074
Website: www.senversa.com.au

Legend

- No ACM identified
- ACM identified but classified as resolved
- ACM identified but classified as outstanding
- Current Shack
- Assessed Area Wedge
- Former Shack

Notes:
Aerial imagery sourced from DPaW

Designed:	S. Horgan	Date:	15/09/2016
Drawn:	S. Koroblitsas	Revision:	0
Checked:	.	Scale:	1:1,100 (A3)
File:	P11935_02_F004-18_ACM Assess and IR maps -wedge		

0 5 10 20 30 40 Metres
Datum GDA 1994, Projection MGA Zone 50

Figure No: 4.09

Title: Wedge ACM Assessment & Identification Records Maps

Project: Remedial Detailed Site Investigation

Location: Wedge and Grey Shack Settlements

Client: Department of Parks and Wildlife

Path: Y:\16_GIS\Jobs\P11935_DPAW_WEDGE AND GREY RESERVES\MXDs\1. Working MXDS\Draft figures\P11935_02_F004-18_ACM Assess and IR maps -wedge.mxd

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Website: www.senversa.com.au

Legend

- No ACM identified
- ACM identified but classified as resolved
- ACM identified but classified as outstanding
- Current Shack
- Assessed Area Wedge
- Former Shack

Notes:
Aerial imagery sourced from DPaW

Designed:	S. Horgan	Date:	15/09/2016
Drawn:	S. Koroblitsas	Revision:	0
Checked:	.	Scale:	1:1,100 (A3)
File:	P11935_02_F004-18_ACM Assess and IR maps -wedge		

0 5 10 20 30 40 Metres
Datum GDA 1994, Projection MGA Zone 50

Figure No: 4.10

Title: Wedge ACM Assessment & Identification Records Maps

Project: Remedial Detailed Site Investigation

Location: Wedge and Grey Shack Settlements

Client: Department of Parks and Wildlife

Path: Y:\16_GIS\Jobs\P11935_DPAW_WEDGE AND GREY RESERVES\MXDs\1. Working MXDS\Draft figures\P11935_02_F004-18_ACM Assess and IR maps -wedge.mxd

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Legend

- No ACM identified
- ACM identified but classified as resolved
- ACM identified but classified as outstanding
- Current Shack
- Assessed Area Wedge
- Former Shack

Notes:
Aerial imagery sourced from DPaW

Designed:	S. Horgan	Date:	15/09/2016
Drawn:	S. Koroblitsas	Revision:	0
Checked:	.	Scale:	1:1,100 (A3)
File:	P11935_02_F004-18_ACM Assess and IR maps -wedge		

0 5 10 20 30 40 Metres
Datum GDA 1994, Projection MGA Zone 50

Figure No: 4.11

Title: Wedge ACM Assessment & Identification Records Maps

Project: Remedial Detailed Site Investigation

Location: Wedge and Grey Shack Settlements

Client: Department of Parks and Wildlife

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Legend

- No ACM identified
- ACM identified but classified as resolved
- ACM identified but classified as outstanding
- Current Shack
- Assessed Area Wedge
- Former Shack

Notes:
Aerial imagery sourced from DPaW

Designed:	S. Horgan	Date:	15/09/2016
Drawn:	S. Koroblitsas	Revision:	0
Checked:	.	Scale:	1:1,100 (A3)
File:	P11935_02_F004-18_ACM Assess and IR maps -wedge		

0 5 10 20 30 40 Metres
Datum GDA 1994, Projection MGA Zone 50

Figure No: 4.12

Title: Wedge ACM Assessment & Identification Records Maps

Project: Remedial Detailed Site Investigation

Location: Wedge and Grey Shack Settlements

Client: Department of Parks and Wildlife

Path: Y:\16_GIS\Jobs\P11935_DPAW_WEDGE AND GREY RESERVES\MXDs\1_Working MXDS\Draft figures\P11935_02_F004-18_ACM Assess and IR maps -wedge.mxd

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Website: www.senversa.com.au

Legend

- No ACM identified
- ACM identified but classified as resolved
- ACM identified but classified as outstanding
- Current Shack
- Assessed Area Wedge
- Former Shack

Notes:
Aerial imagery sourced from DPaW

Designed:	S. Horgan	Date:	15/09/2016
Drawn:	S. Koroblitsas	Revision:	0
Checked:	.	Scale:	1:1,100 (A3)
File:	P11935_02_F004-18_ACM Assess and IR maps -wedge		

0 5 10 20 30 40 Metres
Datum GDA 1994, Projection MGA Zone 50

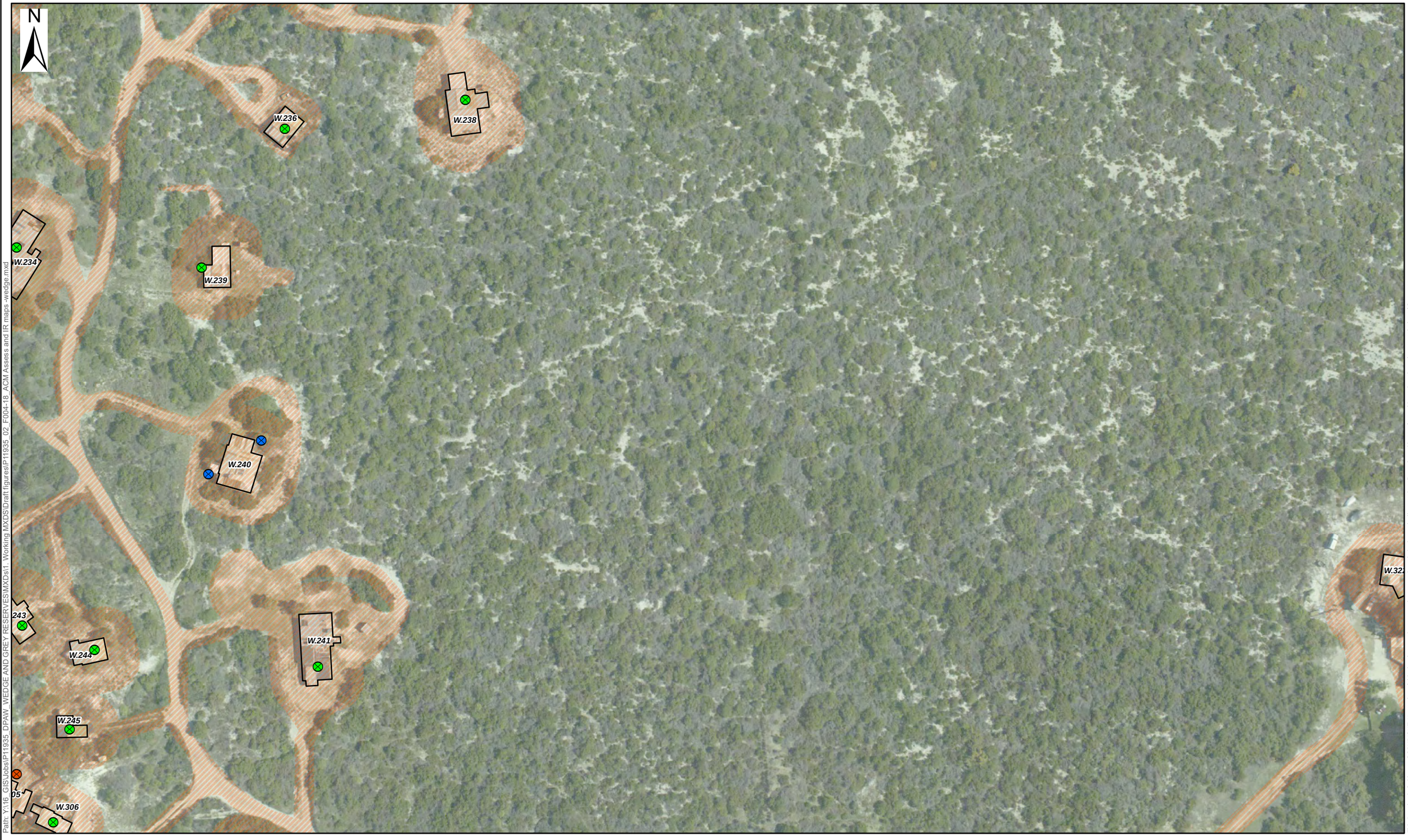
Figure No: 4.13

Title: Wedge ACM Assessment & Identification Records Maps

Project: Remedial Detailed Site Investigation

Location: Wedge and Grey Shack Settlements

Client: Department of Parks and Wildlife



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Fax: (03) 9606 0074
Website: www.senversa.com.au

Legend

- No ACM identified
- ACM identified but classified as resolved
- ACM identified but classified as outstanding
- Current Shack
- Assessed Area Wedge
- Former Shack

Notes:
Aerial imagery sourced from DPaW

Designed:	S. Horgan	Date:	15/09/2016
Drawn:	S. Koroblitsas	Revision:	0
Checked:	.	Scale:	1:1,100 (A3)
File:	P11935_02_F004-18_ACM Assess and IR maps -wedge		

0 5 10 20 30 40 Metres
Datum GDA 1994, Projection MGA Zone 50

Figure No: 4.14

Title: Wedge ACM Assessment & Identification Records Maps

Project: Remedial Detailed Site Investigation

Location: Wedge and Grey Shack Settlements

Client: Department of Parks and Wildlife

Path: Y:\16_GIS\Jobs\P11935_DPAW_WEDGE AND GREY RESERVES\MXDs\1. Working MXDS\Draft figures\P11935_02_F004-18_ACM Assess and IR maps -wedge.mxd

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Fax: (03) 9606 0074
Website: www.senversa.com.au

Legend

- No ACM identified
- ACM identified but classified as resolved
- ACM identified but classified as outstanding
- Current Shack
- Assessed Area Wedge
- Former Shack

Notes:
Aerial imagery sourced from DPaW

Designed:	S. Horgan	Date:	15/09/2016
Drawn:	S. Koroblitsas	Revision:	0
Checked:	.	Scale:	1:1,100 (A3)
File:	P11935_02_F004-18_ACM Assess and IR maps -wedge		

0 5 10 20 30 40 Metres
Datum GDA 1994, Projection MGA Zone 50

Figure No: 4.15

Title: Wedge ACM Assessment & Identification Records Maps

Project: Remedial Detailed Site Investigation

Location: Wedge and Grey Shack Settlements

Client: Department of Parks and Wildlife

Path: Y:\16_GIS\Jobs\P11935_DPAW_WEDGE AND GREY RESERVES\MXDs\1_Working MXDS\Draft figures\P11935_02_F004-18_ACM Assess and IR maps -wedge.mxd

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Fax: (03) 9606 0074
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Legend

- No ACM identified
- ACM identified but classified as resolved
- ACM identified but classified as outstanding
- Current Shack
- Assessed Area Wedge
- Former Shack

Notes:
Aerial imagery sourced from DPaW

Designed:	S. Horgan	Date:	15/09/2016
Drawn:	S. Koroblitsas	Revision:	0
Checked:	.	Scale:	1:1,100 (A3)
File:	P11935_02_F004-18_ACM Assess and IR maps -wedge		

0 5 10 20 30 40 Metres
Datum GDA 1994, Projection MGA Zone 50

Figure No: 4.16

Title: Wedge ACM Assessment & Identification Records Maps

Project: Remedial Detailed Site Investigation

Location: Wedge and Grey Shack Settlements

Client: Department of Parks and Wildlife

Path: Y:\16_GIS\Jobs\P11935_DPAW_WEDGE AND GREY RESERVES\MXDs\1. Working MXDS\Draft figures\P11935_02_F004-18_ACM Assess and IR maps -wedge.mxd

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Website: www.senversa.com.au

Legend

- No ACM identified
- ACM identified but classified as resolved
- ACM identified but classified as outstanding
- Current Shack
- Assessed Area Wedge
- Former Shack

Notes:
Aerial imagery sourced from DPaW

Designed:	S. Horgan	Date:	15/09/2016
Drawn:	S. Koroblitsas	Revision:	0
Checked:	.	Scale:	1:1,100 (A3)
File:	P11935_02_F004-18_ACM Assess and IR maps -wedge		

0 5 10 20 30 40 Metres
Datum GDA 1994, Projection MGA Zone 50

Figure No: 4.17

Title: Wedge ACM Assessment & Identification Records Maps

Project: Remedial Detailed Site Investigation

Location: Wedge and Grey Shack Settlements

Client: Department of Parks and Wildlife

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Legend

- No ACM identified
- ACM identified but classified as resolved
- ACM identified but classified as outstanding
- Current Shack
- Assessed Area Wedge
- Former Shack

Notes:
Aerial imagery sourced from DPaW

Designed:	S. Horgan	Date:	15/09/2016
Drawn:	S. Koroblitsas	Revision:	0
Checked:	.	Scale:	1:1,100 (A3)
File:	P11935_02_F004-18_ACM Assess and IR maps -wedge		

0 5 10 20 30 40 Metres
Datum GDA 1994, Projection MGA Zone 50

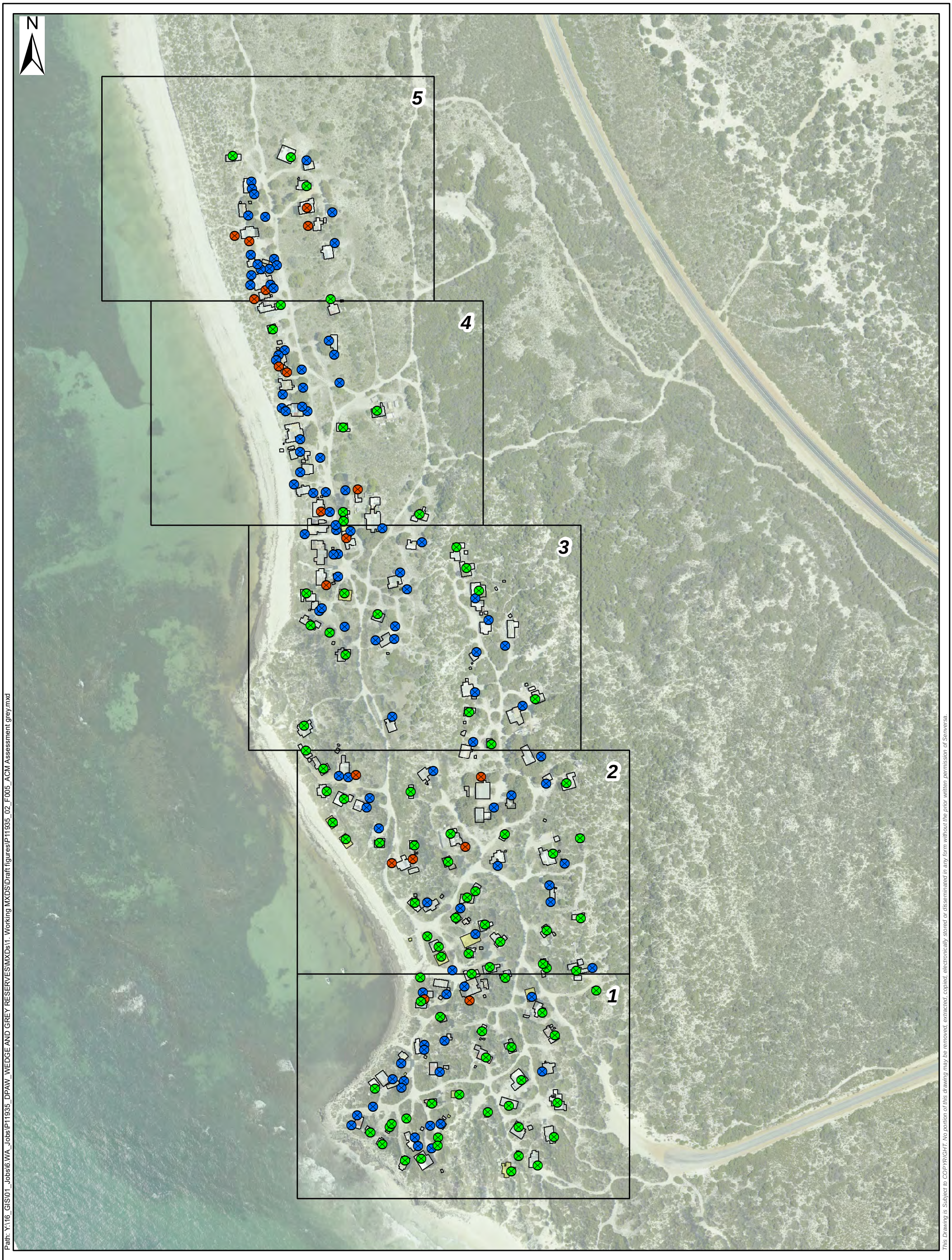
Figure No: 4.18

Title: Wedge ACM Assessment & Identification Records Maps

Project: Remedial Detailed Site Investigation

Location: Wedge and Grey Shack Settlements

Client: Department of Parks and Wildlife



Path: Y:\16_GIS\01_Jobs\6.WA_Jobs\P11935_DPAW_WEDGE AND GREY RESERVES\MXDs\1. Working MXDS\Draft figures\P11935_02_F005_ACM Assessment grey.mxd

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Legend

- No ACM identified
- ACM identified but classified as resolved
- ACM identified but classified as outstanding
- Maps 5.1-5.5 Extent
- Current Shack Location
- Former Shack Location

Aerial imagery sourced from DPaW

Designed:	S. Horgan	Date:	29/03/2017
Drawn:	S. Koroblitsas	Revision:	0
Checked:		Scale:	1:3,500 (A3)
File:	P11935_02_F005_ACM Assessment grey		

0 15 30 60 90 120 Metres

Datum GDA 1994, Projection MGA Zone 50

Figure No: 5

Title: Grey ACM Assessment

Project: Remedial Detailed Site Investigation

Location: Wedge and Grey Shack Settlements

Client: Department of Parks and Wildlife

Path: Y:\16_GIS\Jobs\P11935_DPAW_WEDGE AND GREY RESERVES\MXDs\1. Working MXDs\Draft figures\P11935_02_F005-5_ACM Assess and IR maps-grey.mxd

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Website: www.senversa.com.au

Legend

- No ACM identified
- ACM identified but classified as resolved
- ACM identified but classified as outstanding
- Current Shack Location
- Former Shack Location
- Area Assessed

Notes:
Aerial imagery sourced from Nearmap Pty Ltd

Designed:	S. Horgan	Date:	14/09/2016
Drawn:	S. Koroblitsas	Revision:	0
Checked:	.	Scale:	1:1,100 (A3)
File:	P11935_02_F005-5_ACM Assess and IR maps-grey		

0 10 20 40 60 80 Metres

Datum GDA 1994, Projection MGA Zone 50

Figure No: 5.1

Title: Grey ACM Assessment & Identification Records Maps

Project: Remedial Detailed Site Investigation

Location: Wedge and Grey Shack Settlements

Client: Department of Parks and Wildlife

Path: Y:\16_GIS\Jobs\P11935_DPAW_WEDGE AND GREY RESERVES\MXDs\1. Working MXDS\Draft figures\P11935_02_F005-5_ACM Assess and IR maps-grey.mxd

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Legend

- No ACM identified
- ACM identified but classified as resolved
- ACM identified but classified as outstanding
- Current Shack Location
- Former Shack Location
- Area Assessed

Notes:
Aerial imagery sourced from Nearmap Pty Ltd

Designed:	S. Horgan	Date:	14/09/2016
Drawn:	S. Koroblitsas	Revision:	0
Checked:	.	Scale:	1:1,100 (A3)
File:	P11935_02_F005-5_ACM Assess and IR maps-grey		

0 10 20 40 60 80 Metres

Datum GDA 1994, Projection MGA Zone 50

Figure No: 5.2

Title: Grey ACM Assessment & Identification Records Maps

Project: Remedial Detailed Site Investigation

Location: Wedge and Grey Shack Settlements

Client: Department of Parks and Wildlife

Path: Y:\16_GIS\Jobs\P11935_DPAW_WEDGE AND GREY RESERVES\MXDs\1. Working MXDS\Draft figures\P11935_02_F005-5_ACM Assess and IR maps-grey.mxd

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Legend

- No ACM identified
- ACM identified but classified as resolved
- ACM identified but classified as outstanding
- Current Shack Location
- Former Shack Location
- Area Assessed

Notes:
Aerial imagery sourced from Nearmap Pty Ltd

Designed:	S. Horgan	Date:	14/09/2016
Drawn:	S. Koroblitsas	Revision:	0
Checked:	.	Scale:	1:1,100 (A3)
File:	P11935_02_F005-5_ACM Assess and IR maps-grey		

0 10 20 40 60 80 Metres

Datum GDA 1994, Projection MGA Zone 50

Figure No: 5.3

Title: Grey ACM Assessment & Identification Records Maps

Project: Remedial Detailed Site Investigation

Location: Wedge and Grey Shack Settlements

Client: Department of Parks and Wildlife

Path: Y:\16_GIS\Jobs\P11935_DPAW_WEDGE AND GREY RESERVES\MXDs\1. Working MXDS\Draft figures\P11935_02_F005-5_ACM Assess and IR maps-grey.mxd

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Legend

- No ACM identified
- ACM identified but classified as resolved
- ACM identified but classified as outstanding
- Current Shack Location
- Former Shack Location
- Area Assessed

Notes:
Aerial imagery sourced from Nearmap Pty Ltd

Designed:	S. Horgan	Date:	14/09/2016
Drawn:	S. Koroblitsas	Revision:	0
Checked:	.	Scale:	1:1,100 (A3)
File:	P11935_02_F005-5_ACM Assess and IR maps-grey		

0 10 20 40 60 80 Metres

Datum GDA 1994, Projection MGA Zone 50

Figure No: 5.4

Title: Grey ACM Assessment & Identification Records Maps

Project: Remedial Detailed Site Investigation

Location: Wedge and Grey Shack Settlements

Client: Department of Parks and Wildlife

Path: Y:\16_GIS\Jobs\P11935_DPAW_WEDGE AND GREY RESERVES\MXDs\1. Working MXDS\Draft figures\P11935_02_F005-5_ACM Assess and IR maps-grey.mxd

senversa
Address: Level 25, 108 St Georges Terrace, Perth WA 6000
Phone: (08) 6557 8881
Fax: (03) 9606 0074
Website: www.senversa.com.au

Legend

- No ACM identified
- ACM identified but classified as resolved
- ACM identified but classified as outstanding
- Current Shack Location
- Former Shack Location
- Area Assessed

Notes:
Aerial imagery sourced from Nearmap Pty Ltd

Designed:	S. Horgan	Date:	14/09/2016
Drawn:	S. Koroblitsas	Revision:	0
Checked:	.	Scale:	1:1,100 (A3)
File:	P11935_02_F005-5_ACM Assess and IR maps-grey		

0 10 20 40 60 80 Metres

Datum GDA 1994, Projection MGA Zone 50

Figure No: 5.5

Title: Grey ACM Assessment & Identification Records Maps

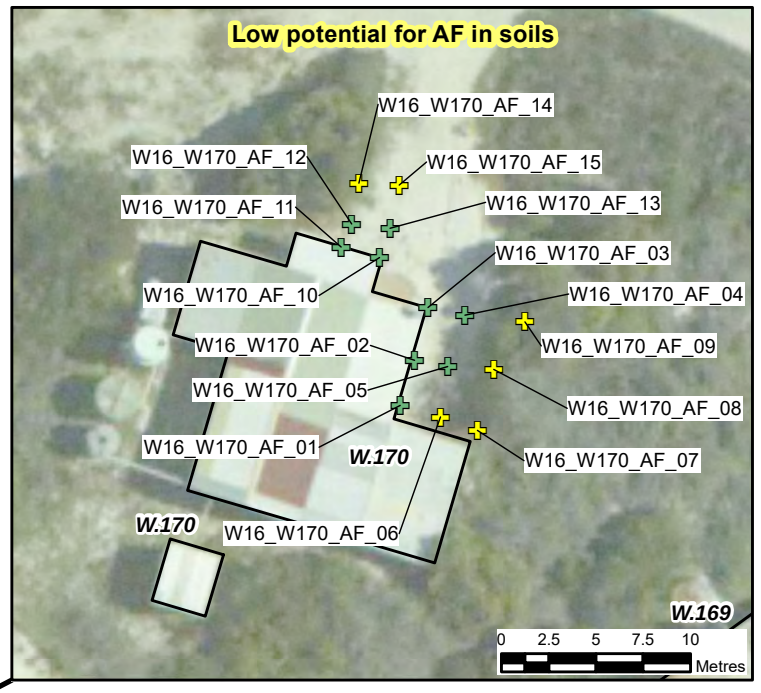
Project: Remedial Detailed Site Investigation

Location: Wedge and Grey Shack Settlements

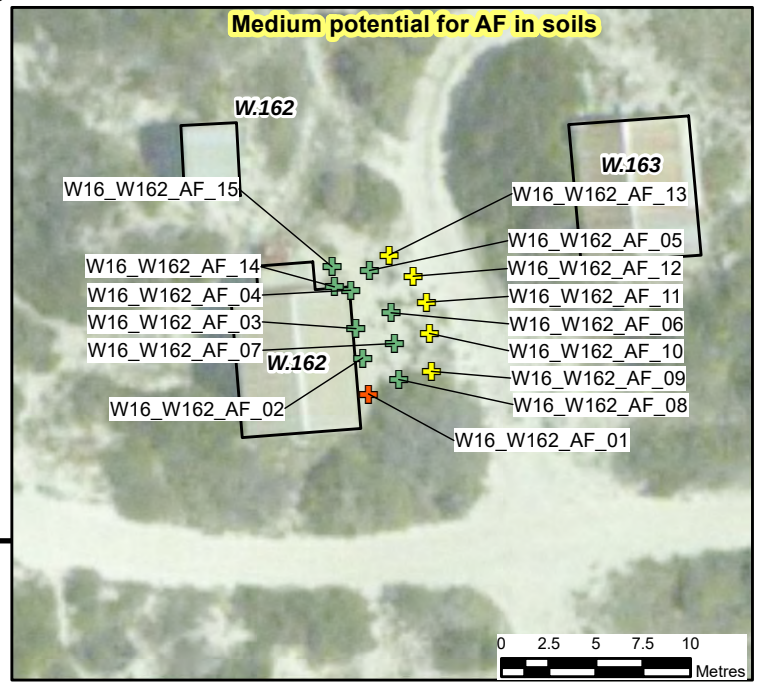
Client: Department of Parks and Wildlife

N

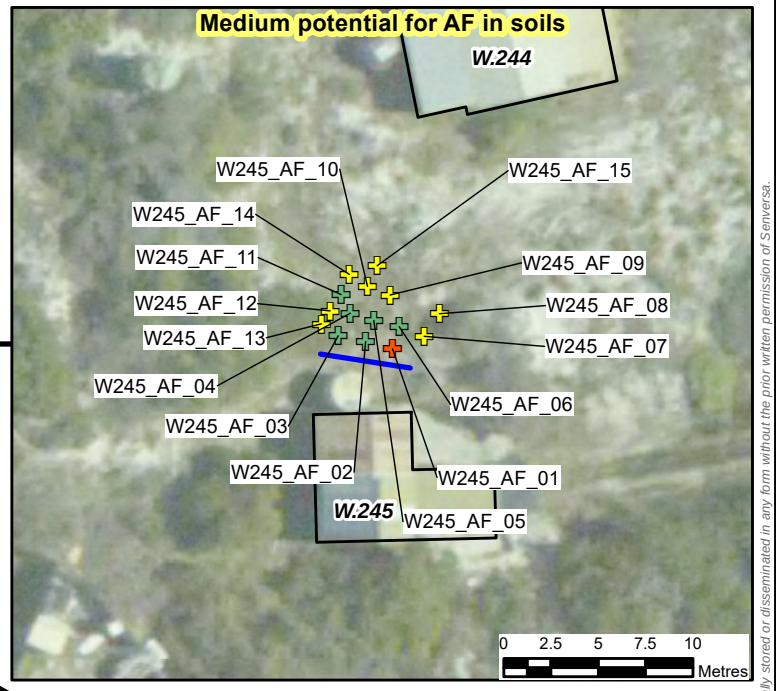
Low potential for AF in soils



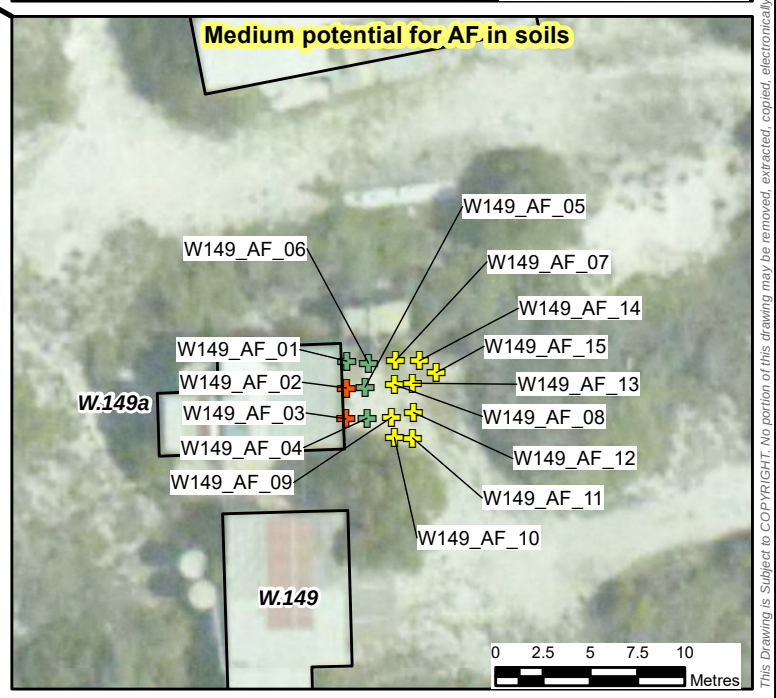
Medium potential for AF in soils



Medium potential for AF in soils



Medium potential for AF in soils



Path: Y:\16_GISJobs\P11935_DPAW_WEDGE AND GREY RESERVES\MXDs\1. Working MXDS\Draft figures\P11935_02_F006a_AF Sampling map.mxd

senversa
Address: Level 25, 108 St Georges Tce, Perth WA 6000
Phone: (08) 6557 8881
Fax: (03) 9606 0074
Website: www.senversa.com.au

Legend

- Current Shack Location
- Former Shacks
- Not analysed
- No Asbestos detected
- Asbestos detected
- Suspect ACM Fence

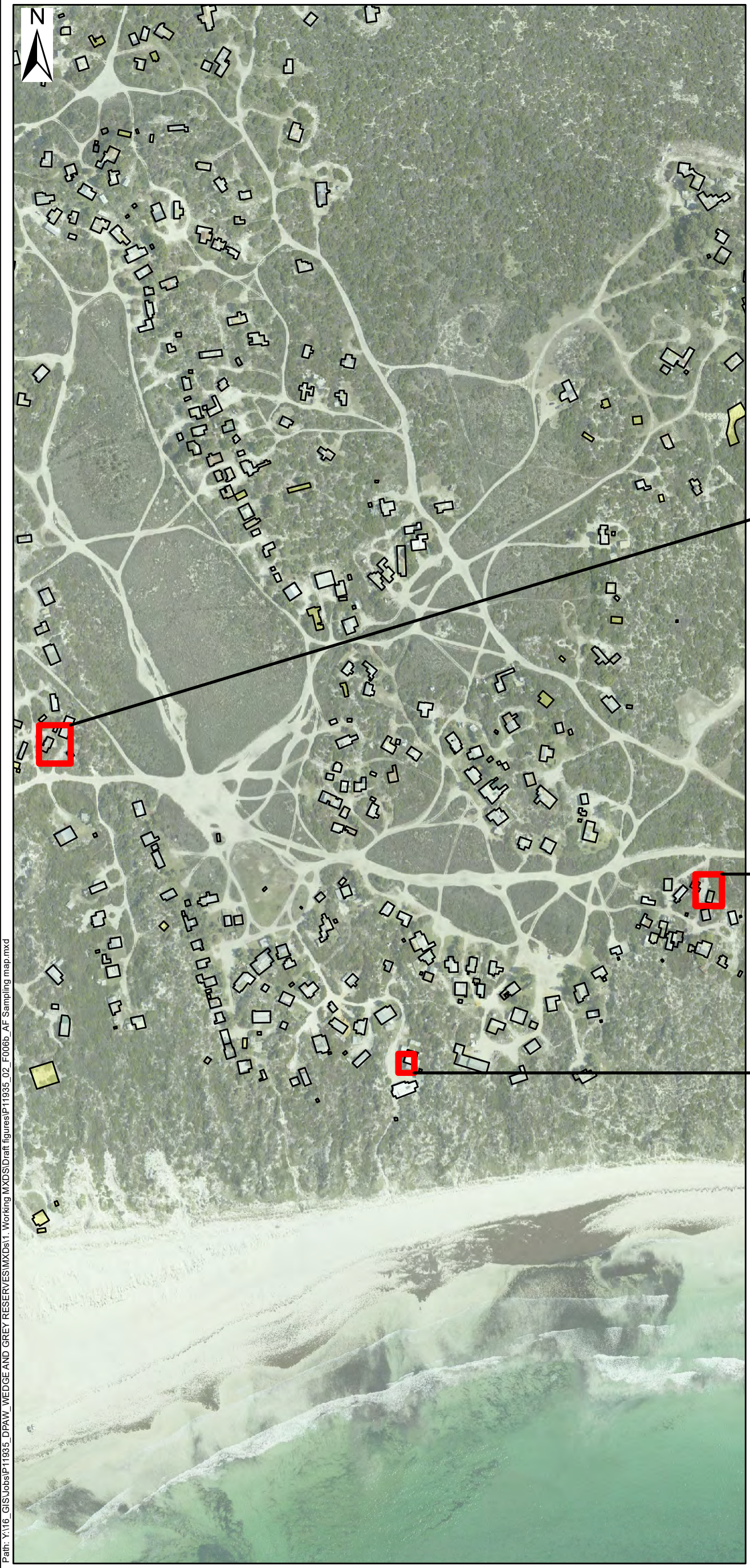
Aerial imagery sourced from Nearmap Pty Ltd

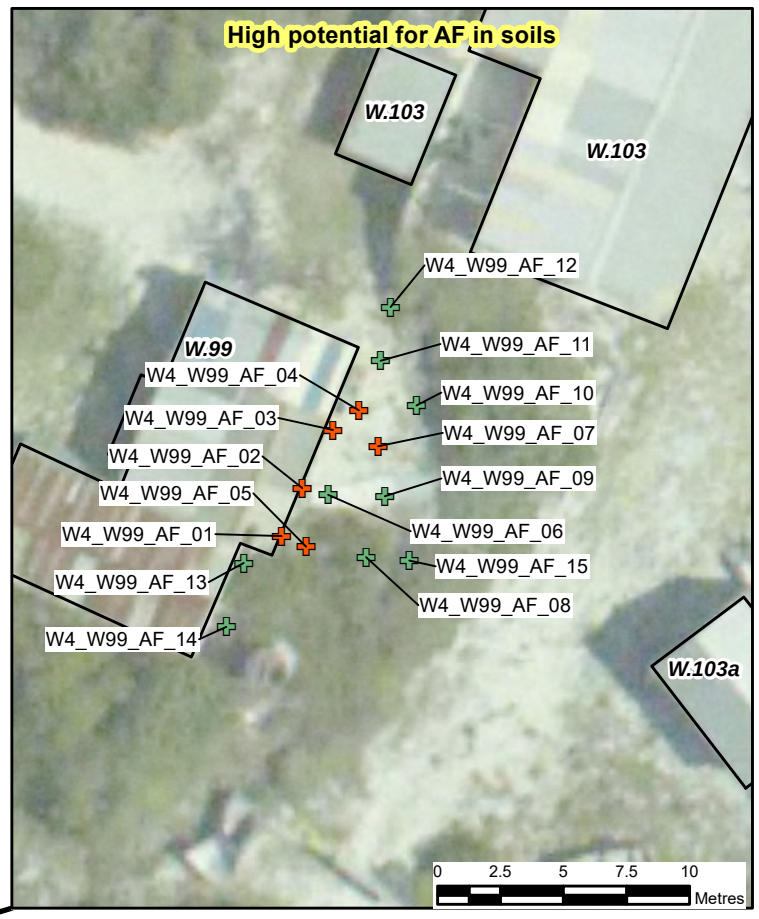
Designed:	S. Horgan	Date:	15/09/2016
Drawn:	S. Koroblitsas	Revision:	0
Checked:		Scale:	1:4,000 (A3)
File:	P11935_02_F006a_AF Sampling map		

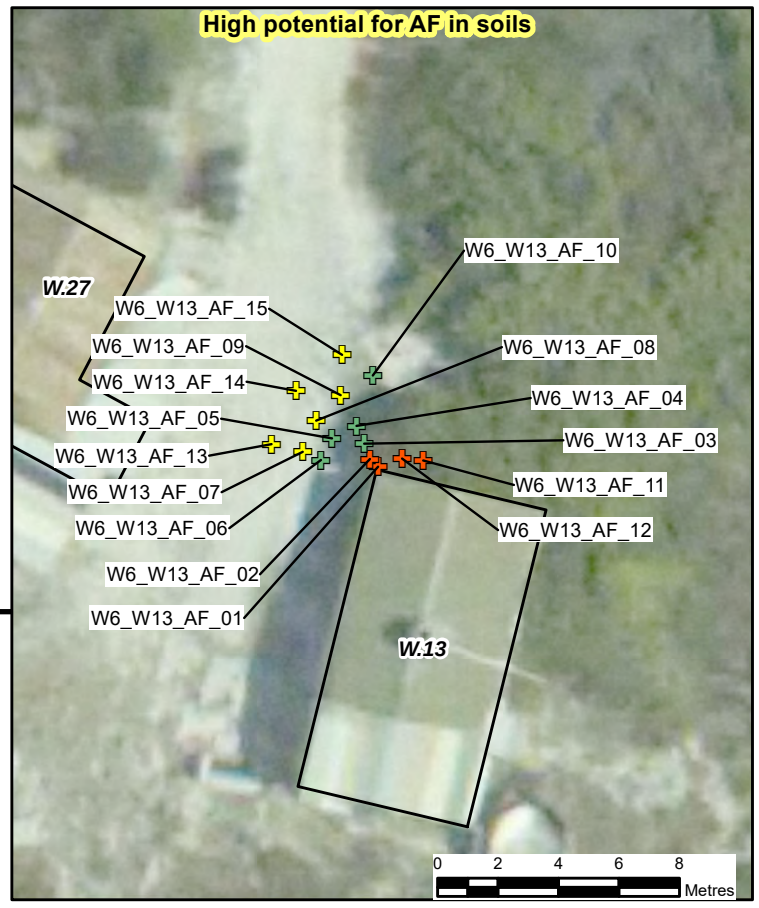
0 25 50 100 150 200 Metres

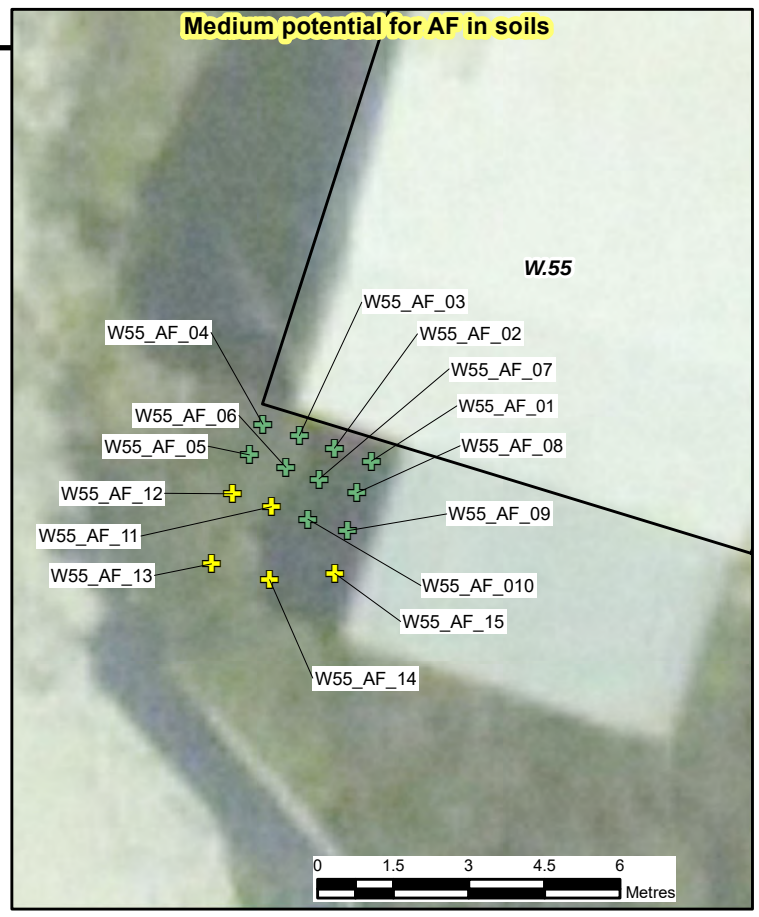
Datum GDA 1994, Projection MGA Zone 50

Figure No:	**6.1**
Title:	**Wedge AF Sampling**
Project:	Remedial Detailed Site Investigation
Location:	Wedge and Grey Shack Settlements
Client:	Department of Parks and Wildlife









Path: Y:\16_GIS\Jobs\P11935_DPAW_WEDGE AND GREY RESERVES\MXDs\1. Working MXDS\Draft figures\P11935_02_F006b_AF Sampling map.mxd

senversa
Address: Level 25, 108 St Georges Tce, Perth WA 6000
Phone: (08) 6557 8881
Fax: (03) 9606 0074
Website: www.senversa.com.au

Legend

- Current Shack Location
- Former Shacks

Asbestos Fragment Sample Location

- Not Analysed
- No Asbestos Detected
- Asbestos Detected

Aerial imagery sourced from Nearmap Pty Ltd

Designed:	S. Horgan	Date:	15/09/2016
Drawn:	S. Koroblitsas	Revision:	0
Checked:		Scale:	1:4,000 (A3)
File:	P11935_02_F006b_AF Sampling map		

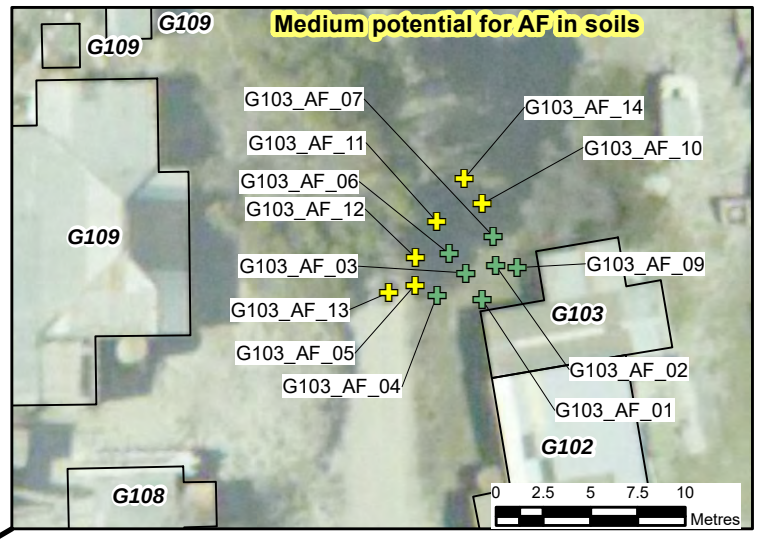
0 25 50 100 150 200 Metres

Datum GDA 1994, Projection MGA Zone 50

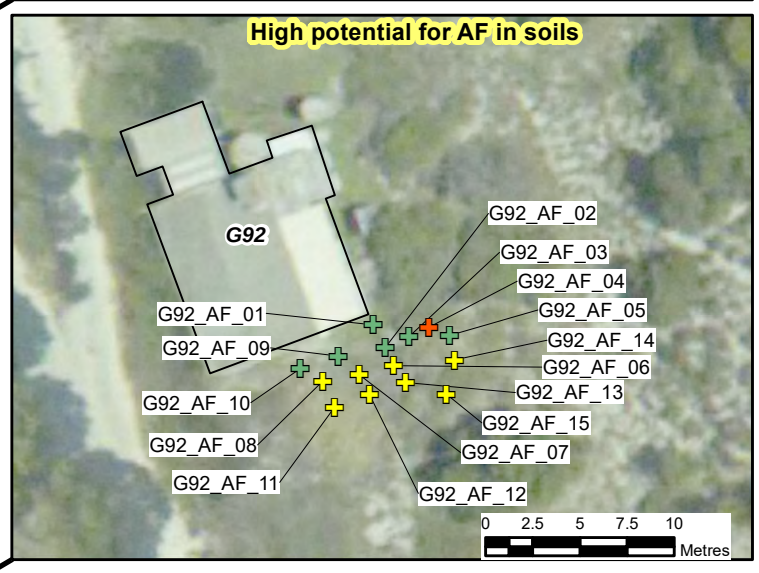
Figure No:	**6.2**
Title:	**Wedge AF Sampling**
Project:	Remedial Detailed Site Investigation
Location:	Wedge and Grey Shack Settlements
Client:	Department of Parks and Wildlife

N

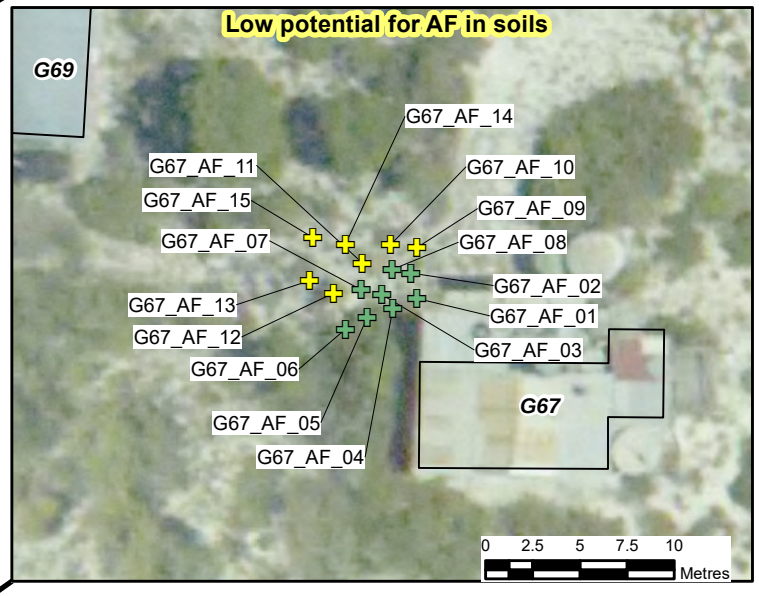
Medium potential for AF in soils



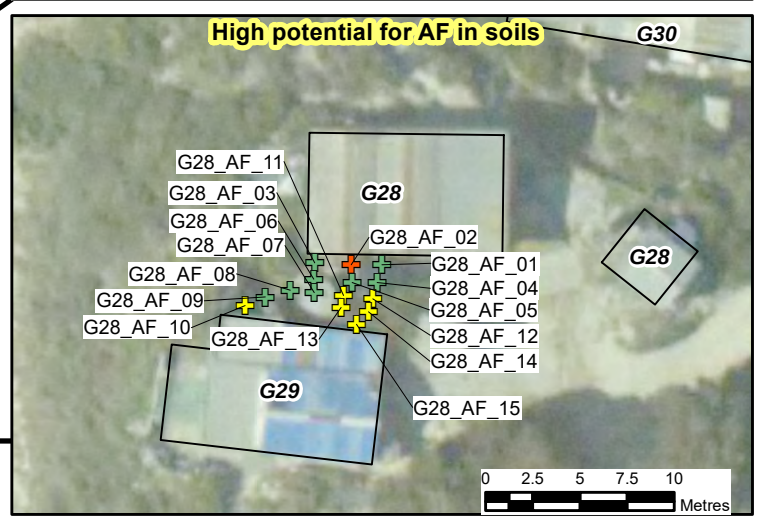
High potential for AF in soils



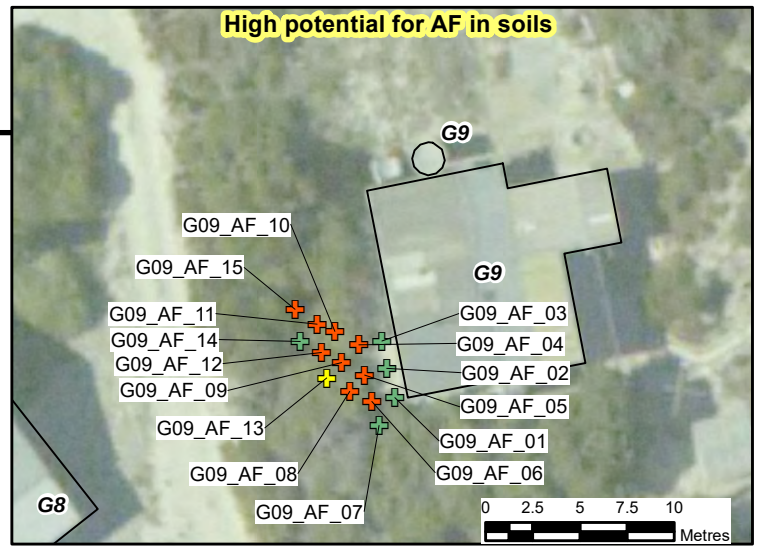
Low potential for AF in soils



High potential for AF in soils



High potential for AF in soils



Path: Y:\16_GISJobs\P11935_DPAW_WEDGE AND GREY RESERVES\MXDs\1. Working MXDs\Draft figures\P11935_02_F007_AF Sampling map.mxd

senversa
Address: Level 25, 108 St Georges Tce, Perth WA 6000
Phone: (08) 6557 8881
Fax: (03) 9606 0074
Website: www.senversa.com.au

Legend

- Current Shacks
- Former Shacks
- Not analysed
- No Asbestos detected
- Asbestos detected

Aerial imagery sourced from Nearmap Pty Ltd

Designed:	S. Horgan	Date:	15/09/2016
Drawn:	S. Koroblitsas	Revision:	0
Checked:		Scale:	1:3,500 (A3)
File:	P11935_02_F007_AF Sampling map		

0 20 40 80 120 160 Metres

Datum GDA 1994, Projection MGA Zone 50

Figure No: 7

Title: Grey AF Sampling

Project: Remedial Detailed Site Investigation

Location: Wedge and Grey Shack Settlements

Client: Department of Parks and Wildlife

Appendix A: Certificates of Title

WESTERN AUSTRALIA

REGISTER NUMBER	
4153/DP92263	
DUPLICATE EDITION	DATE DUPLICATE ISSUED
N/A	**N/A**

RECORD OF QUALIFIED CERTIFICATE OF CROWN LAND TITLE

VOLUME **LR3064** FOLIO **200**

UNDER THE TRANSFER OF LAND ACT 1893
AND THE LAND ADMINISTRATION ACT 1997

NO DUPLICATE CREATED

The undermentioned land is Crown land in the name of the STATE of WESTERN AUSTRALIA, subject to the interests and Status Orders shown in the first schedule which are in turn subject to the limitations, interests, encumbrances and notifications shown in the second schedule.

REGISTRAR OF TITLES

LAND DESCRIPTION:

LOT 4153 ON DEPOSITED PLAN 92263

STATUS ORDER AND PRIMARY INTEREST HOLDER:
(FIRST SCHEDULE)

STATUS ORDER/INTEREST: RESERVE VESTED UNDER STATUTE

PRIMARY INTEREST HOLDER: CONSERVATION AND LAND MANAGEMENT EXECUTIVE BODY OF CARE OF DIRECTOR GENERAL, DEPARTMENT OF ENVIRONMENT AND CONSERVATION, LOCKED BAG 104, BENTLEY DELIVERY CENTRE

(XE K502316) REGISTERED 8 FEBRUARY 2008

LIMITATIONS, INTERESTS, ENCUMBRANCES AND NOTIFICATIONS:
(SECOND SCHEDULE)

1.	F816236	RESERVE 43283 FOR THE PURPOSE OF PARKLAND, RECREATION AND THE LETTING OF COTTAGES THEREON ON 14.01.95 REGISTERED 1.1.1995.
2.	K502316	VESTED, PURSUANT TO SECTION 33(2) OF THE CONSERVATION AND LAND MANAGEMENT ACT 1984 REGISTERED 8.2.2008.
3.	L199697	MEMORIAL, CONTAMINATED SITES ACT 2003 REGISTERED 13.1.2010.

Warning: (1) A current search of the sketch of the land should be obtained where detail of position, dimensions or area of the lot is required. Lot as described in the land description may be a lot or location.
(2) The land and interests etc. shown hereon may be affected by interests etc. that can be, but are not, shown on the register.
(3) The interests etc. shown hereon may have a different priority than shown.

----------END OF CERTIFICATE OF CROWN LAND TITLE----------

STATEMENTS:

The statements set out below are not intended to be nor should they be relied on as substitutes for inspection of the land and the relevant documents or for local government, legal, surveying or other professional advice.

SKETCH OF LAND: LR3064-200 (4153/DP92263).
PREVIOUS TITLE: LR3070-633.
PROPERTY STREET ADDRESS: NO STREET ADDRESS INFORMATION AVAILABLE.

END OF PAGE 1 - CONTINUED OVER

LOCAL GOVERNMENT AREA: SHIRE OF DANDARAGAN.
RESPONSIBLE AGENCY: DEPARTMENT OF ENVIRONMENT AND CONSERVATION.

NOTE 1:	A000001A	CORRESPONDENCE FILE 201/1961 V2.
NOTE 2:		SUBJECT TO SURVEY - NOT FOR ALIENATION PURPOSES
NOTE 3:		LAND PARCEL IDENTIFIER OF MELBOURNE LOCATION 4153 ON SUPERSEDED PAPER CERTIFICATE OF CROWN LAND TITLE CHANGED TO LOT 4153 ON DEPOSITED PLAN 92263 ON 23-AUG-02 TO ENABLE ISSUE OF A DIGITAL CERTIFICATE OF TITLE.
NOTE 4:		THE ABOVE NOTE MAY NOT BE SHOWN ON THE SUPERSEDED PAPER CERTIFICATE OF TITLE.

NOT TO BE REMOVED FROM OFFICE OF TITLES LT 158

NO DUPLICATE ISSUED

REGISTER VOL. 3064 BOOK FOL. 200

Sundry Document F816237

Corr. 201/1961 v2

Vol. 3070 Fol. 633

WESTERN AUSTRALIA

Crown Land Record

The undermentioned land shown on the sketch in the First Schedule hereto is land of the Crown subject to the interests, easements, encumbrances and notices shown in the Second Schedule hereto.

Dated 27th February, 1995

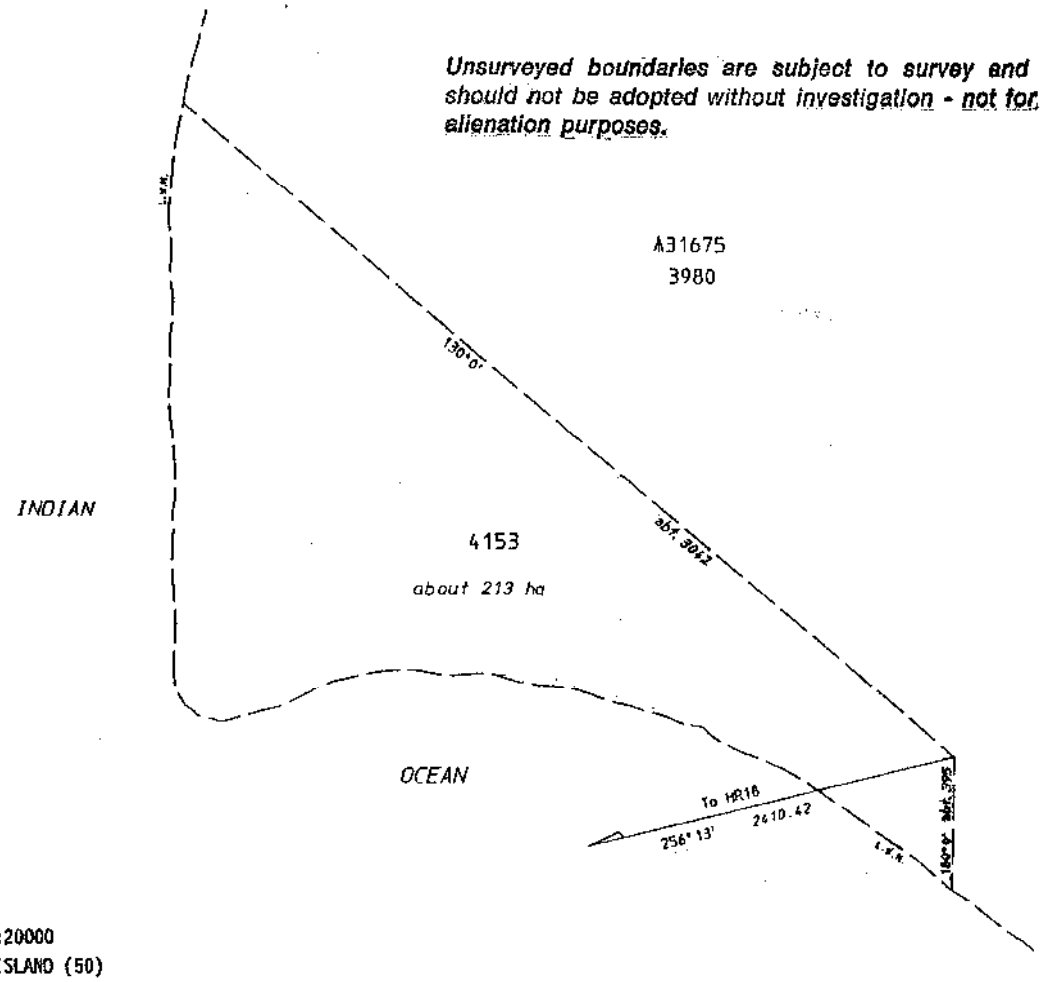
CHIEF EXECUTIVE OFFICER

LAND REFERRED TO

Melbourne Location 4153 on Land Administration Reserve Diagram 1283

FIRST SCHEDULE

Unsurveyed boundaries are subject to survey and should not be adopted without investigation - not for alienation purposes.



SCALE 1:20000
P.P. WEDGE ISLAND (50)
Shire of Dandaragan

FOR ENCUMBRANCES AND OTHER MATTERS AFFECTING THE LAND SEE SECOND SCHEDULE

SECOND SCHEDULE

NOTE: ENTRIES MAY BE AFFECTED BY SUBSEQUENT ENDORSEMENTS

PARTICULARS	INSTRUMENT NATURE	INSTRUMENT NUMBER	REGISTERED	TIME	SEAL	CERT. OFFICER
Set apart as Reserve No 43283 for the purpose of "Parkland, Recreation and the letting of Cottages thereon on 14.01.95 in G.G. 24.02.95	Sundry	F816236		15.30		

NOT TO BE REMOVED FROM OFFICE OF TITLES LT 158

NO DUPLICATE ISSUED

REGISTER VOL. 3070 BOOK FOL. 633

Sundry Document F816237

Corr. 1492/1972

WESTERN AUSTRALIA

CANCELLED

Crown Land Record

The undermentioned land shown on the sketch in the First Schedule hereto is land of the Crown subject to the interests, easements, encumbrances and notices shown in the Second Schedule hereto.

3070 VOL. 633 FOL.

Dated 27th February, 1995

CHIEF EXECUTIVE OFFICER

LAND REFERRED TO

Melbourne Location 3980 on Land Administration Reserve Plan 182

FIRST SCHEDULE

Cancelled

Page 1 of 2 page(s)

CANCELLED

PERSONS ARE CAUTIONED AGAINST ALTERING OR ADDING TO THIS RECORD OR ANY NOTIFICATION HEREON

05901/3/92- 4M-5/9499

FOR ENCUMBRANCES AND OTHER MATTERS AFFECTING THE LAND SEE SECOND SCHEDULE

Cancelled

SECOND SCHEDULE

NOTE: ENTRIES MAY BE AFFECTED BY SUBSEQUENT ENDORSEMENTS

PARTICULARS	INSTRUMENT NATURE	INSTRUMENT NUMBER	REGISTERED	TIME	SEAL	CERT. OFFICER
Reserve NO 31675 for the purpose of "Conservation of Flora and Fauna" and vested in Western Australian Wildlife Authority	Sundry	F816237				
Reserve amended to exclude that portion now comprised in Melbourne Location 4153 on Reserve Diagram 1283 in G.G. 24.02.95	Sundry	F816237		15.30		
Cancelled Melbourne Location 4153 to CLR Vol 3064 Fol 200 Balance to CLR Vol 3098 Fol 891	Sundry	F816237	27.02.95	14.54		

REGISTER NUMBER	
4152/DP92258	
DUPLICATE EDITION	DATE DUPLICATE ISSUED
N/A	**N/A**

WESTERN AUSTRALIA

RECORD OF QUALIFIED CERTIFICATE OF CROWN LAND TITLE

VOLUME **LR3102** FOLIO **988**

UNDER THE TRANSFER OF LAND ACT 1893
AND THE LAND ADMINISTRATION ACT 1997

NO DUPLICATE CREATED

The undermentioned land is Crown land in the name of the STATE of WESTERN AUSTRALIA, subject to the interests and Status Orders shown in the first schedule which are in turn subject to the limitations, interests, encumbrances and notifications shown in the second schedule.

REGISTRAR OF TITLES

Cancelled

LAND DESCRIPTION:

LOT 4152 ON DEPOSITED PLAN 92258

STATUS ORDER AND PRIMARY INTEREST HOLDER:
(FIRST SCHEDULE)

STATUS ORDER/INTEREST: RESERVE VESTED UNDER STATUTE

PRIMARY INTEREST HOLDER: CONSERVATION AND LAND MANAGEMENT EXECUTIVE BODY OF CARE OF DIRECTOR GENERAL, DEPARTMENT OF ENVIRONMENT AND CONSERVATION, LOCKED BAG 104, BENTLEY DELIVERY CENTRE

(XE K502317) REGISTERED 8 FEBRUARY 2008

LIMITATIONS, INTERESTS, ENCUMBRANCES AND NOTIFICATIONS:
(SECOND SCHEDULE)

1.	K550081	RESERVE 43284 FOR THE PURPOSE OF PARKLAND, RECREATION AND THE LETTING OF COTTAGES EXISTING THEREON ON 14.01.95 REGISTERED 31.3.2008.
	K550081	AMENDMENT OF RESERVE.RESERVE AMENDED. REGISTERED 31.3.2008.
2.	K502317	VESTED. PURSUANT TO SECTION 33(2) OF THE CONSERVATION AND LAND MANAGEMENT ACT 1984 REGISTERED 8.2.2008.
3.	K550079	PORTION COMPRISED IN LOT 4348 ON DP42790 TO VOL 3153 FOL 728. REGISTERED 31.3.2008.
4.	K550080	FOLIO CANCELLED. NEW FOLIOS HAVE BEEN CREATED FOR LOT(S) ON DP54546 TO VOL 3153 FOL 729. REGISTERED 31.3.2008.

Warning: (1) A current search of the sketch of the land should be obtained where detail of position, dimensions or area of the lot is required. Lot as described in the land description may be a lot or location.
(2) The land and interests etc. shown hereon may be affected by interests etc. that can be, but are not, shown on the register.
(3) The interests etc. shown hereon may have a different priority than shown.

----------END OF CERTIFICATE OF CROWN LAND TITLE----------

STATEMENTS:

The statements set out below are not intended to be nor should they be relied on as substitutes for inspection of the land and the relevant documents or for local government, legal, surveying or other professional advice.

END OF PAGE 1 - CONTINUED OVER

SKETCH OF LAND:	LR3102-988 (4152/DP92258).
PREVIOUS TITLE:	This Title.
PROPERTY STREET ADDRESS:	NO STREET ADDRESS INFORMATION AVAILABLE.
LOCAL GOVERNMENT AREA:	NO LOCAL GOVERNMENT AUTHORITY INFORMATION AVAILABLE.
RESPONSIBLE AGENCY:	DEPARTMENT OF ENVIRONMENT AND CONSERVATION.

NOTE 1:	A000001A	CORRESPONDENCE FILE 2044/1953 V3.
NOTE 2:		SUBJECT TO SURVEY - NOT FOR ALIENATION PURPOSES
NOTE 3:		LAND PARCEL IDENTIFIER OF MELBOURNE LOCATION 4152 ON SUPERSEDED PAPER CERTIFICATE OF CROWN LAND TITLE CHANGED TO LOT 4152 ON DEPOSITED PLAN 92258 ON 31-AUG-02 TO ENABLE ISSUE OF A DIGITAL CERTIFICATE OF TITLE.
NOTE 4:		THE ABOVE NOTE MAY NOT BE SHOWN ON THE SUPERSEDED PAPER CERTIFICATE OF TITLE.
NOTE 5:	J032439	DEPOSITED PLAN 42790 LODGED.

NOT TO BE REMOVED FROM OFFICE OF TITLES

LT 158

NO DUPLICATE ISSUED

REGISTER VOL.	BOOK FOL.
3102	988

Sundry Document F816232

Corr. 2044/1953 v3

WESTERN AUSTRALIA

Crown Land Record

The undermentioned land shown on the sketch in the First Schedule hereto is land of the Crown subject to the interests, easements, encumbrances and notices shown in the Second Schedule hereto.

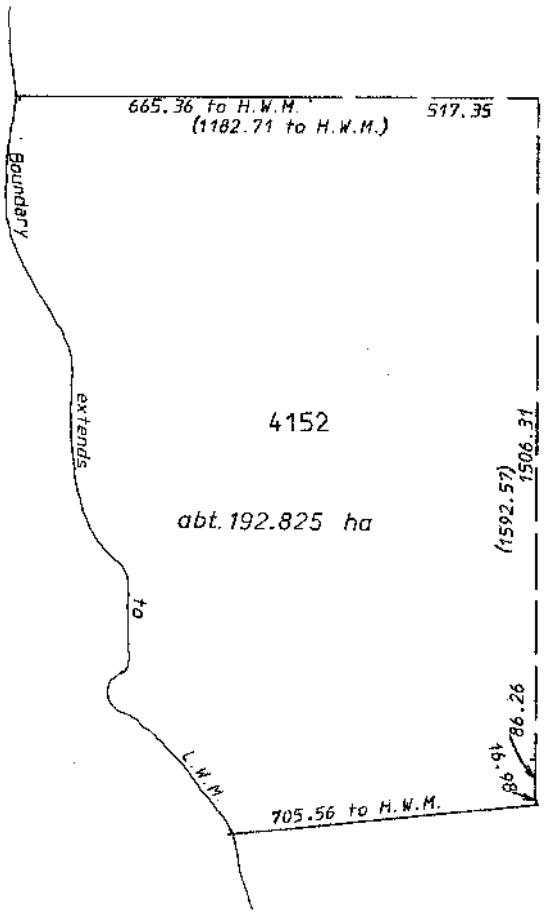
Dated 27th February, 1995

CHIEF EXECUTIVE OFFICER

LAND REFERRED TO

Melbourne Location 4152 on Land Administration Reserve Diagram 1277

FIRST SCHEDULE



SCALE 1:15000

P.P. CERVANTES (50)

Shire of Dandaragan

Unsurveyed boundaries are subject to survey and should not be adopted without investigation - not for alienation purposes.

FOR ENCUMBRANCES AND OTHER MATTERS AFFECTING THE LAND SEE SECOND SCHEDULE

PERSONS ARE CAUTIONED AGAINST ALTERING OR ADDING TO THIS RECORD OR ANY NOTIFICATION HEREON

Superseded - Copy for Sketch Only

Vol. 3102 Fol. 988 Page 1 of 2 pages)

05901/3/92-4M-S/9499

SECOND SCHEDULE

NOTE: ENTRIES MAY BE AFFECTED BY SUBSEQUENT ENDORSEMENTS

PARTICULARS	INSTRUMENT NATURE	INSTRUMENT NUMBER	REGISTERED	TIME	SEAL	CERT. OFFICER
Set apart as Reserve No. 43284 for the purpose of "Parkland, Recreation and the Letting of Cottages Existing Thereon on 14.01.95" in G.G. 24.02.95	Sundry	F816232		15.30	DEPARTMENT OF LAND ADMINISTRATION	LD

WESTERN AUSTRALIA

REGISTER NUMBER	
302/DP54546	
DUPLICATE EDITION	DATE DUPLICATE ISSUED
N/A	N/A

RECORD OF QUALIFIED CERTIFICATE OF CROWN LAND TITLE

VOLUME LR3153 FOLIO 729

UNDER THE TRANSFER OF LAND ACT 1893
AND THE LAND ADMINISTRATION ACT 1997

NO DUPLICATE CREATED

The undermentioned land is Crown land in the name of the STATE of WESTERN AUSTRALIA, subject to the interests and Status Orders shown in the first schedule which are in turn subject to the limitations, interests, encumbrances and notifications shown in the second schedule.

REGISTRAR OF TITLES

LAND DESCRIPTION:

LOT 302 ON DEPOSITED PLAN 54546

STATUS ORDER AND PRIMARY INTEREST HOLDER:
(FIRST SCHEDULE)

STATUS ORDER/INTEREST: RESERVE VESTED UNDER STATUTE

PRIMARY INTEREST HOLDER: CONSERVATION AND LAND MANAGEMENT EXECUTIVE BODY OF CARE OF DIRECTOR GENERAL, DEPARTMENT OF ENVIRONMENT AND CONSERVATION, LOCKED BAG 104, BENTLEY DELIVERY CENTRE

(XE K502317) REGISTERED 8 FEBRUARY 2008

LIMITATIONS, INTERESTS, ENCUMBRANCES AND NOTIFICATIONS:
(SECOND SCHEDULE)

1.	K550081	RESERVE 43284 FOR THE PURPOSE OF PARKLAND, RECREATION AND LETTING OF COTTAGES REGISTERED 31.3.2008.
2.	K502317	VESTED, PURSUANT TO SECTION 33(2) OF THE CONSERVATION AND LAND MANAGEMENT ACT 1984 REGISTERED 8.2.2008.
3.	L199695	MEMORIAL, CONTAMINATED SITES ACT 2003 REGISTERED 13.1.2010.

Warning: (1) A current search of the sketch of the land should be obtained where detail of position, dimensions or area of the lot is required. Lot as described in the land description may be a lot or location.
(2) The land and interests etc. shown hereon may be affected by interests etc. that can be, but are not, shown on the register.
(3) The interests etc. shown hereon may have a different priority than shown.

----------END OF CERTIFICATE OF CROWN LAND TITLE----------

STATEMENTS:

The statements set out below are not intended to be nor should they be relied on as substitutes for inspection of the land and the relevant documents or for local government, legal, surveying or other professional advice.

SKETCH OF LAND: DP54546.
PREVIOUS TITLE: LR3102-988.
PROPERTY STREET ADDRESS: NO STREET ADDRESS INFORMATION AVAILABLE.

END OF PAGE 1 - CONTINUED OVER

LOCAL GOVERNMENT AREA: SHIRE OF DANDARAGAN.
RESPONSIBLE AGENCY: DEPARTMENT OF ENVIRONMENT AND CONSERVATION.

NOTE 1: K550080 CORRESPONDENCE FILE 01147-2001-01RO
NOTE 2: SUBJECT TO SURVEY - NOT FOR ALIENATION PURPOSES

INSTRUCTIONS

1. If insufficient space in any section, Additional Sheet Form B1, should be used with appropriate headings. The boxed sections should only contain the words "see page....."
2. Additional Sheets shall be numbered consecutively and bound to this document by staples along the left margin prior to execution by the parties.
3. No alteration should be made by erasure. The words rejected should be scored through and those substituted typed or written above them, the alteration being initialed by the persons signing this document and their witnesses.

NOTES

1. **DESCRIPTION OF LAND**
   Lot and Diagram/Plan/Strata/Survey-Strata Plan number or Location name and number to be stated.
   Extent - Whole, part or balance of the land comprised in the Certificate of Title to be stated. If this document relates to only part of the land comprised in the Certificate of Title further narrative or graphic description may be necessary. The volume and folio number to be stated.
2. **REGISTERED PROPRIETOR**
   State full name and address of the Registered Proprietors as shown on the Certificate of Title and the address / addresses to which future notices can be sent.
3. **INFORMATION CONCERNING SITE CLASSIFICATION**
   Include information concerning site classification as either: contaminated – restricted use, contamination – remediation required, remediated for restricted use or possibly contaminated – investigation required.
4. **CHIEF EXECUTIVE OFFICER'S ATTESTATION**
   This document must be signed by or on behalf of the Chief Executive Officer, Department of Environment and Conservation under Section 91 of Contaminated Sites Act 2003. An Adult Person should witness this signature. The address and occupation of the witness must be stated.

EXAMINED

OFFICE USE ONLY

L199695 ML
13 Jan 2010 11:44:01 Perth

REG $ 110.00

MEMORIAL
CONTAMINATED SITES ACT 2003

LODGED BY
Department of Environment and Conservation

ADDRESS
Level 4, 168 St Georges Terrace
Perth, WA 6842

PHONE No. 1300 762 982

FAX No. (08) 9333 7575

REFERENCE No. 27226

ISSUING BOX No. 888V

PREPARED BY
Contaminated Sites Section
Department of Environment and Conservation

ADDRESS
Level 4, 168 St Georges Terrace
Perth, WA 6842

PHONE No. 1300 762 982 FAX No. (08) 9333 7575

INSTRUCT IF ANY DOCUMENTS ARE TO ISSUE TO OTHER THAN LODGING PARTY

2/6

TITLES, LEASES, DECLARATIONS ETC LODGED HEREWITH

1.
2.
3.
4.
5.
6.

Received Items

Nos.

Receiving Clerk

Lodged pursuant to the provisions of the TRANSFER OF LAND ACT 1893 as amended on the day and time shown above and particulars entered in the Register.

REGISTRAR OF TITLES
WESTERN AUSTRALIA

APPROVAL NUMBER	DEPARTMENT OF ENVIRONMENT AND CONSERVATION Client ID 4907

WESTERN AUSTRALIA
TRANSFER OF LAND ACT 1893 AS AMENDED

MEMORIAL

CONTAMINATED SITES ACT 2003

SECTION 58(1) (a) (i) (I) (II) (III) (IV)

DESCRIPTION OF LAND (Note 1)	EXTENT	VOLUME	FOLIO
LOT 302 ON DEPOSITED PLAN 54546	Whole	LR3153	729

REGISTERED PROPRIETOR (Note 2)

STATE OF WESTERN AUSTRALIA

INFORMATION CONCERNING SITE CLASSIFICATION (Note 3)

Under the Contaminated Sites Act 2003, this Site has been classified as "Possibly contaminated - investigation required". For further information on the contamination status of this Site, please contact the Contaminated Sites section of the Department of Environment & Conservation.

OCS

Dated this Seventh day of January Year 2010

CHIEF EXECUTIVE OFFICER'S ATTESTATION (Note 4)

Kerry Laszig, MANAGER

DELEGATE OF THE CHIEF EXECUTIVE OFFICER
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
UNDER SECTION 91 OF THE
CONTAMINATED SITES ACT 2003

SIGNATURE OF WITNESS

FULL NAME: Triin-Liis Harma
ADDRESS: 168 St Georges Tce PERTH WA 6000
OCCUPATION: Data Management Officer

INSTRUCTIONS

1. If insufficient space in any section, Additional Sheet Form B1, should be used with appropriate headings. The boxed sections should only contain the words "see page....."
2. Additional Sheets shall be numbered consecutively and bound to this document by staples along the left margin prior to execution by the parties.
3. No alteration should be made by erasure. The words rejected should be scored through and those substituted typed or written above them, the alteration being initialed by the persons signing this document and their witnesses.

NOTES

1. **DESCRIPTION OF LAND**
   Lot and Diagram/Plan/Strata/Survey-Strata Plan number or Location name and number to be stated.
   Extent - Whole, part or balance of the land comprised in the Certificate of Title to be stated. If this document relates to only part of the land comprised in the Certificate of Title further narrative or graphic description may be necessary. The volume and folio number to be stated.
2. **REGISTERED PROPRIETOR**
   State full name and address of the Registered Proprietors as shown on the Certificate of Title and the address / addresses to which future notices can be sent.
3. **INFORMATION CONCERNING SITE CLASSIFICATION**
   Include information concerning site classification as either: contaminated – restricted use, contamination – remediation required, remediated for restricted use or possibly contaminated – investigation required.
4. **CHIEF EXECUTIVE OFFICER'S ATTESTATION**
   This document must be signed by or on behalf of the Chief Executive Officer, Department of Environment and Conservation under Section 91 of Contaminated Sites Act 2003. An Adult Person should witness this signature. The address and occupation of the witness must be stated.

EXAMINED

OFFICE USE ONLY

L199697 ML
13 Jan 2010 11:44:01 Perth

REG $ 110.00

MEMORIAL
CONTAMINATED SITES ACT 2003

LODGED BY
Department of Environment and Conservation

ADDRESS
Level 4, 168 St Georges Terrace
Perth, WA 6842

PHONE No. 1300 762 982

FAX No. (08) 9333 7575

REFERENCE No. 27231

ISSUING BOX No. 888V

PREPARED BY
Contaminated Sites Section
Department of Environment and Conservation

ADDRESS
Level 4, 168 St Georges Terrace
Perth, WA 6842

PHONE No. 1300 762 982 FAX No. (08) 9333 7575

INSTRUCT IF ANY DOCUMENTS ARE TO ISSUE TO OTHER THAN LODGING PARTY

4/6

TITLES, LEASES, DECLARATIONS ETC LODGED HEREWITH

1.
2.
3.
4.
5.
6.

Received Items
Nos. 0

Receiving Clerk

Lodged pursuant to the provisions of the TRANSFER OF LAND ACT 1893 as amended on the day and time shown above and particulars entered in the Register.

APPROVAL NUMBER	DEPARTMENT OF ENVIRONMENT AND CONSERVATION Client ID 4910

WESTERN AUSTRALIA
TRANSFER OF LAND ACT 1893 AS AMENDED

MEMORIAL

CONTAMINATED SITES ACT 2003

SECTION 58(1) (a) (i) (I) (II) (III) (IV)

DESCRIPTION OF LAND (Note 1)	EXTENT	VOLUME	FOLIO
LOT 4153 ON DEPOSITED PLAN 92263	Whole	LR3064	200

REGISTERED PROPRIETOR (Note 2)

STATE OF WESTERN AUSTRALIA

INFORMATION CONCERNING SITE CLASSIFICATION (Note 3)

Under the Contaminated Sites Act 2003, this Site has been classified as "Possibly contaminated - investigation required". For further information on the contamination status of this Site, please contact the Contaminated Sites section of the Department of Environment & Conservation.

OCS

Dated this Seventh day of January Year 2010

CHIEF EXECUTIVE OFFICER'S ATTESTATION (Note 4)

K. Z...

Kerry Laszig, MANAGER

DELEGATE OF THE CHIEF EXECUTIVE OFFICER
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
UNDER SECTION 91 OF THE
CONTAMINATED SITES ACT 2003

SIGNATURE OF WITNESS

FULL NAME: Triin-Liis Harma
ADDRESS: 168 St Georges Tce PERTH WA 6000
OCCUPATION: Data Management Officer

Appendix B: Procedures

Procedure 1: Shacks ACM Investigation

Objective: To detail the methodology and process to be undertaken for the identification of ACM in the vicinity of the shacks and former shacks.

Defining the Area: Relevant areas will be defined as an approximate 10 m radius surrounding licenced shacks or former shack location (with Parks and Wildlife identification numbers) footprints and 10 m radius surrounds. The area will be modified from the default 10 m radius guide to incorporate areas around structures directly associated with the shack (e.g. gazebos, BBQ areas etc.) to the extent practical and to create a defined area that makes intuitive sense as a discrete and readily recognisable distinctive area. The identification of shack areas will note and account for constraints such as vegetation, structures, access and covering.

The procedure for the investigation around each shack is detailed below:

1) A field form (Asbestos Field Record) is required to be completed at each shack area.

2) A nominal 10 m radius footprint (from the shack structure) around each licenced shack or former shack locations will be visually assessed for the presence of ACM. This distance will be approximated (i.e. paced out) by field staff.

3) The area within the nominal 10 m diameter footprint will be systematically walked in a grid-based fashion, with field transects spaced no more than 3 m apart, so that all areas can be appropriately inspected. Ground conditions (such as visual obstructions) may require closer spacing, this will be assessed in the field.

4) Where ACM is identified, the locations will be flagged (e.g. with a survey peg or similar) for assessment by the field supervisor.

5) The field supervisor will complete a field form at each of the flagged occurrences and determine the required action type based on the preliminary ranking system presented in Procedure 4 (Table 2). This assessment will determine what further works are required (Procedure 5).

- If multiple (more than one) occurrences of asbestos occur within a proximity of less than 5 m^2, then this will be considered a single occurrence.
- Where there are multiple locations of asbestos surrounding the building, which are located more than 5 m distance apart, this will be considered a separate occurrence and a separate field sheet will be required for each occurrence.

6) Site conditions may dictate exceptions to the 10 m investigation radius around the shacks.

- Where the accessible area surrounding the shack is less than 10 m (due to dense vegetation or other access restrictions), the radius of inspection will be recorded on field sheets.
- Where the shack is surrounded by a locked fence, Senversa will contact Parks and Wildlife to arrange access.
- Where the ground surface is visually obstructed (i.e. by carpet or dense vegetation), an assessment will be made as to the potential for asbestos to be present in the areas and works will proceed as follows:
    - If asbestos has been identified within the structure or on the ground surface in the near vicinity (i.e. 2 m), the carpet or surface cover will be lifted, where practical and safe. If the surface covering cannot be moved, the area will be identified for future consideration.
    - If there was no asbestos recorded within the structure and no ACM has been identified on the ground surface, the risk of ACM below the obstructed ground surface is considered to be low and the carpet or surface cover will be lifted as a confirmatory check only (i.e. lifting the corner of an unfixed piece of carpet), only where considered safe and practical to do so.

Once further works have been completed the area will be reassessed and classified based on the final classification system presented in Procedure 4 (Table 3) and the field form will be completed to include details of the works undertaken (by the field supervisor). The field form will include a comments section, where it is expected information such as limitations or extensions of raking depth etc. will be noted.

Procedure 2: Track Investigation

Objective: To detail the methodology and process to be undertaken for the ACM investigation throughout the tracks.

Track identification: Cleared vehicular access tracks to the shacks or common areas.

1) All tracks will be systematically walked to assess for the presence of ACM. The location of all walked tracks will be recorded on a field map.
2) Transect walked will be spaced no more than 3 m apart, so that all areas can be appropriately inspected. Ground conditions (such as visual obstructions) may require closer spacing, this will be assessed in the field.
3) Where ACM is identified, the locations will be flagged for assessment by the field supervisor.
4) The field supervisor will complete a field form (Asbestos Field Record) at each of the flagged occurrences and determine the required action based on the preliminary ranking system presented in Procedure 4 (Table 2). This assessment will determine what further works are required (Procedure 5).
5) Once further works have been completed the area will be reassessed and classified based on the final classification system presented in Procedure 4 (Table 3) and the field form (Asbestos Field Record) will be completed to include details of the works undertaken (by the field supervisor). The field form will include a comments section, where it is expected information such as limitations or extensions of raking depth etc. will be noted.

Procedure 3: Other Accessible Areas (Common Areas) Investigation

Objective: To detail the methodology and process to be undertaken for the ACM investigation in the Common Areas.

Common Area Identification: Common Areas will be defined relative to boundaries formed by areas otherwise included in the shack or track assessments and access constraints.

1) Common Areas will be visually assessed for the presence of ACM.
2) All accessible areas will be systematically walked in a grid-based fashion to assess for the presence of ACM. The location of all accessible areas that have been assessed will be recorded on a field map.
3) Transects will be spaced no more than 3 m apart, so that areas can be appropriately inspected. Ground conditions (such as visual obstructions) may require closer spacing, this will be assessed in the field.
4) Where ACM is identified, the locations will be flagged for assessment by the field supervisor.
5) The field supervisor will complete a field form (Asbestos Field Record) at each of the flagged occurrences and determine the required action based on the preliminary ranking system presented in Procedure 4 (Table 2). This assessment will determine what further works are required.
6) Once further works have been completed the area will be reassessed and classified based on the final classification system presented in Procedure 4 (Table 3) and the field form (Asbestos Field Record) will be completed to include details of the works undertaken (by the field supervisor). The field form will include a comments section, where it is expected information such as limitations or extensions of raking depth etc. will be noted.

Procedure 4: Field Ranking

Objective: To detail the process for determining the condition of asbestos and level of assessment / methodology for clean-up of identified asbestos occurrences.

Table 1 presents the qualitative descriptions of asbestos to adopted to guide relevant discrimination aspects of the assessment

Table 1: Asbestos Condition

ACM Condition	Description
Good	Bonded ACM with limited signs of damage or deterioration (limited weathering), intact, well bonded pieces with little evidence of potential for fibre release.
Fair	Bonded ACM with signs of damage or deterioration (some weathering), unsealed or coating deteriorated, some evidence of potential for fibre release
Poor	Pulverised, friable or highly weathered (FA) or small fragments (< 7 mm; AF). High potential for fibre release. Any asbestos identified in 'poor' condition will be subject to further assessment as outlined in Table 2.

Table 2 presents the Preliminary Ranking System to be utilised where ACM is identified. Should a situation be classified as a delayed effort, the occurrence will be assessed by Senversa staff who will determine the level of assessment.

Table 2: Preliminary Ranking System

Ranking	Description	Works Required	Goal
Low	Isolated ACM fragments in good to fair condition across a small area (up to 5 m^2)	Raking using a rake with teeth <7mm spacing and >10cm long, with at least two passes with a 90˚ directional change. Raking to continue until no visible ACM is identified in a pass. Raking to extend at least 0.5m beyond the occurrence of any ACM. All visible ACM collected and double bagged for disposal. Location of identified ACM recorded using a GPS. The dimensions of the raked area and weight and condition of asbestos collected will be recoded on field sheets. A photograph of each location will be collected.	Verifiable removal of identified ACM in soils to a depth of no less than 10cm
High	Widespread (but manageable) presence of ACM fragments in good to fair condition in the upper 10 cm of soil (extending across an area greater than 5 m^2 but not greater than 10 m^2). It is expected that high effort areas will not result in more than approx. 1 m^2 of ACM sheeting to be collected.	Raking using a rake with teeth <7mm spacing and >10cm long, with at least two passes with a 90˚ directional change. Raking will be extended and hand picking completed until no visible ACM is identified in a pass. Raking to extend at least 0.5m beyond the occurrence of any ACM. All visible ACM collected and double bagged for disposal. Location of identified ACM recorded using a GPS. The dimensions of the raked area and weight and condition of asbestos collected will be recoded on field sheets. A photograph of each location will be collected.	Verifiable removal of identified ACM in soils to a depth of no less than 10cm

Ranking	Description	Works Required	Goal
Delay	Piles of dumped ACM exceeding approximately 1 m^2 (i.e. sheeting).	Location of identified ACM recorded using a GPS. Occurrence is communicated to Parks and Wildlife, who may coordinate the removal of the material or erection of temporary signage.	Determine in consultation with Parks and Wildlife whether clean-up is practical as part of this project.
	ACM spread across an area of greater than 10 m^2 or including an aggregate amount of ACM fragments greater than approximately 1 m^2.	Location of identified ACM recorded using a GPS. Occurrence is communicated to Parks and Wildlife, who may coordinate the removal of the material or erection of temporary signage.	Determine in consultation with Parks and Wildlife whether clean-up is practical
	ACM appears to be buried and amount cannot be delineated or quantified visually.	Location of identified ACM recorded using a GPS. Occurrence is communicated to Parks and Wildlife, who may coordinate the removal of the material or erection of temporary signage.	Determine in consultation with Parks and Wildlife whether clean-up is practical as part of this project.
Assess	ACM identified in poor condition (i.e. pulverised, friable or highly weathered; FA) or small fragments (< 7 mm; AF).	Location of identified asbestos recorded using a GPS. Senversa staff to assess the ACM to determine whether it meets the definition of AF/FA. If material is determined as AF/FA communicate assessment to Parks and Wildlife and undertake further management as required.	Determine in consultation with Parks and Wildlife whether clean-up is practical. If not recommend appropriate interim management measures.

Once the clean-up works have been undertaken, each occurrence will be classified as per **Table 3** below. If the goal has been achieved for low and high, no further works required. A final decision regarding future actions made for sites ranked as 'outstanding' will be made in consultation with relevant stakeholders including Parks and Wildlife and the Auditor.

Table 3: Final Classification System

Ranking	Description	Works Required
Resolved	Visible asbestos was removed from the surface soils and top 10 cm via raking.	No further work recommended to address this specific issue. Asbestos register to be updated.
Outstanding	Assessment identifies that the occurrence was indicative of large or complex (AF/FA) occurrence outside the scope of this project that will require remediation by methods other than opportunistic manual means.	Area will be identified for subsequent management. Recommendations for interim management will be made, which may include erection of signage or temporary cover. Asbestos register to be updated.

Procedure 5: ACM Raking and Removal

Objective: To detail the methodology and process to be undertaken for raking when ACM is identified during the systematic walkover.

Once ACM has been identified, flagged and assigned a ranking, the ACM removal process will comprise raking of the impacted area and collection of the ACM in accordance with methodology described in the DoH (2009) *Guidelines for the Assessment, remediation and Management of Asbestos-Contaminated Sites in Western Australia*.

Unless assigned a 'Delayed' classification whenever ACM is identified a minimum of 1 m^2 will be raked.

The procedure for raking is detailed below:

1) Raking using a rake with teeth <7mm spacing and >10cm long, with at least two passes with a 90˚ directional change. Raking to continue until no visible ACM is identified in a pass.
2) Raking to extend at least 0.5 m outside of the impacted area.
3) All visible ACM collected and double bagged for disposal.
4) Location of identified ACM recorded using a GPS.
5) The dimensions of the raked area and weight and condition of asbestos collected will be recorded on field sheets. A photograph of each location will be collected.
6) Bagged ACM to be left near the flag for collection and disposal to skip bin by field supervisor.
7) Field supervisor to complete field form at the completion of removal works and reassess and classify the impacted area based on the final classification system presented in Procedure 4 (Table 3).
8) Site conditions in some areas may prove difficult to rake, for example compacted sand/gravel, tree/shrub roots and intermixed building debris. In such cases the raking may be reduced in depth and area or replaced with a shallow excavation depending on the potential for finding subsurface ACM. If there are only a few fragments and these are localised then the raking (or if need be, excavation and screening) may only need to apply to that immediate area and not need to penetrate the full 10 cm.
9) It is recognised that due to the nature of mobile / shifting sands in some areas raking may need to extend beyond the nominal 10 cm depth to achieve a practical outcome. This will be undertaken where (and to the extend) practical to achieve the desired project outcomes (i.e. removal of near surface asbestos).
10) ACM may be identified in stockpiled soil, where raking may not be necessary, if difficult to do. Should the pile interior investigation indicate ACM, this may result in an assessment of whether the whole pile will be remediated.
11) Where raking is not practical due to constraints such as compaction, tree roots or soil type, manual means to expose ACM will be undertaken (e.g. hand tools such as a spade or mattock) where it is practical to do so. Where the nature and/or the extent of impact makes this alternative method impractical, the occurrence will be allocated 'Delayed Effort' (with relevant details including rationale documented).

Procedure 6: Data Management and Naming

Objective: To ensure field data is recorded consistently and accurately.

The areas investigated and what was found and removed will be documented on field sheets for inclusion in the Remedial DSI Report and Asbestos Register.

Field sheets will be submitted from the field to Senversa data management staff on a daily basis to ensure that records are regularly reconciled and that any issues are able to be promptly brought to project management attention such that they may be resolved during the field work (as necessary).

The data management staff will review field sheets on a daily basis to assess any discrepancies between the locations of ACM identified by field staff and the locations of ACM identified by Aurora. Where any discrepancies are identified this will be communicated to the field supervisor, who will assess the reasons for any discrepancies.

The following site identification naming is to be used on the field forms:

1) Zones will be depicted using the Site name and number correlating to the map sheets. For example, Zone 1 at Wedge will be W1, Zone 1 at Grey will be G1.

2) Areas:

- Shacks Areas will be depicted using the zone number and the unique shack identification number. For example, Wedge Zone 1, shack 2 Area will be W1_W02
- Common Areas will be depicted using CA001 and the zone number. For example, Common Area 1 in Zone 1 will be W1_CA001.
- Access Tracks will be depicted using T001 and the zone number. For example, Access Track 1 in Zone 1 will be W1_T001.

3) ACM identification: Each occurrence will have an individual field form and labelled detailing the Zone, the Area and the occurrence number. For example, occurrence 1 within Zone 1 and at Shack 33 at Wedge will be recorded as W1_W33_ 001.

Procedure 7: Asbestos Disposal and Decontamination

Objective: To ensure that identified ACM is disposed and handled in accordance with Western Australian asbestos management legislation as well as to manage and reduce the potential for spreading asbestos contamination.

Identified ACM is to be collected as follows:

1) All collected ACM fragments will be double bagged and collected at the completion of remediation of each occurrence.
2) Bagged ACM will be temporarily stored onsite (at Wedge and Grey Transfer Facilities) within a locked skip bin.
3) The skip bin will be emptied/removed to an appropriately licenced facility on an approximately weekly basis.

No re-usable equipment is proposed to be used during the investigation, however should any re-usable equipment be required it will be decontaminated as follows:

1) Remove any loose soil material.
2) Wash and scrub in tap water.
3) Wash and scrub in Decon-N (surface active cleaning agent concentrate).
4) Rinse in distilled or deionised water.

Any gloves, Tyvek suits or other disposal equipment used during the removal works are to be disposed in the skip bins with the bagged ACM.

Between remediation locations, boots and other equipment will be visually inspected for the presence of ACM (e.g. small fragments stuck in boot tread) and any identified ACM will be collected and disposed of.

Appendix C: Example Field Form

Asbestos Fibre Sampling

Date:		**Map Number:**	
Time:		**Record Number:**	
Field Personnel:			
Location Identification			
Shack ID:		**Marked on Plan**	Y / N
Sample Locations			
Sample ID		**GPS**	
Sample ID		**GPS**	
Sample ID		**GPS**	
Sample ID		**GPS**	
Sample ID		**GPS**	
Sample ID		**GPS**	
Sample ID		**GPS**	
Sample ID		**GPS**	
Sample ID		**GPS**	
Sample ID		**GPS**	
Sample ID		**GPS**	
Sample ID		**GPS**	
Sample ID		**GPS**	
Sample ID		**GPS**	
Sample ID		**GPS**	
Photo IDs			
Comments / Mud Map			

Field Recorder Initial: _____

Data Management Initial: _____

Asbestos Field Record

Date:		**Map Number:**	
Time:		**Record Number:**	
Field Personnel:		**Location Type:**	Shack / Track / Common Area
Location Identification			
Shack ID:		**Marked on Plan**	Y / N
GPS			
Description			
Photo ID			
Preliminary Assessment			
ACM Identified	Y / N	**Preliminary Rank**	Low / High / Assess / Delay
ACM Description	Good / Fair / Poor		
Raking Required	Y / N		
Secondary Assessment			
Raking Complete	Y / N		
Area of Impact		**Weight ACM**	
Classification	Resolved / Outstanding		
Reason	Spatial Extent / Depth / Friable		
Notes			

Field Recorder Initial: _____

Data Management Initial: _____

senversa

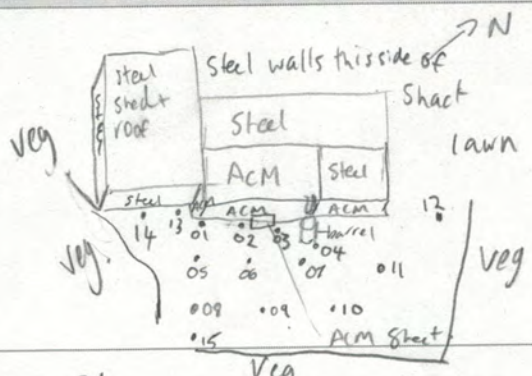
Asbestos Fibre Sampling

Date:	25/7/16	**Map Number:**	WM4
Time:	10.59 ~~completed 12.06~~	**Record Number:**	AF002
Field Personnel:	SJH		

Location Identification			
Shack ID:	99	**Marked on Plan**	(Y) / N

Sample Locations			
Sample ID	W4-W99-AF-01	**GPS**	electronic records.
Sample ID		**GPS**	
Sample ID		**GPS**	
Sample ID		**GPS**	
Sample ID		**GPS**	
Sample ID		**GPS**	
Sample ID		**GPS**	
Sample ID		**GPS**	
Sample ID		**GPS**	
Sample ID		**GPS**	
Sample ID		**GPS**	
Sample ID		**GPS**	
Sample ID		**GPS**	
Sample ID		**GPS**	
Sample ID	15	**GPS**	
Photo IDs	On phone + records		

Comments / Mud Map Shack 99.



Field Recorder Initial: SA

Data Management Initial: _____

senversa

Asbestos Fibre Sampling

Date:	25/7/16	**Map Number:**	WM6
Time:	9.05am — Completed 10.17am	**Record Number:**	AF001
Field Personnel:	SJH		

Location Identification			
Shack ID:	W13	**Marked on Plan**	(Y) / N

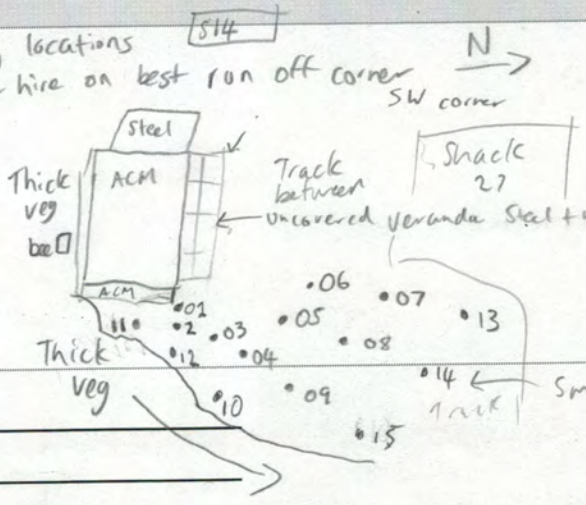
Sample Locations			
Sample ID	W6_W13_AF_01	**GPS**	
Sample ID	W6_W13_AF_02	**GPS**	
Sample ID	03	**GPS**	
Sample ID	04	**GPS**	
Sample ID	05	**GPS**	
Sample ID	06	**GPS**	
Sample ID	07	**GPS**	
Sample ID	08	**GPS**	
Sample ID	09	**GPS**	
Sample ID	10	**GPS**	
Sample ID	11	**GPS**	
Sample ID	12	**GPS**	
Sample ID	13	**GPS**	
Sample ID	14	**GPS**	
Sample ID	15	**GPS**	
Photo IDs	Photos on record (electronic + phone)		

Comments / Mud Map

SJH

Shack not ideal sampling locations due to thick veg + bee hive on best run off corner

Samples collected from NE corner from Shack to approx 5m in all directions as far as practical



0.3m between 01 + 02

Field Recorder Initial: SJH

Data Management Initial: _____

senversa

Asbestos Fibre Sampling

Date:	25/7/16	**Map Number:**	W16
Time:	13:05	**Record Number:**	AF003
Field Personnel:	SH	complete 156	

Location Identification

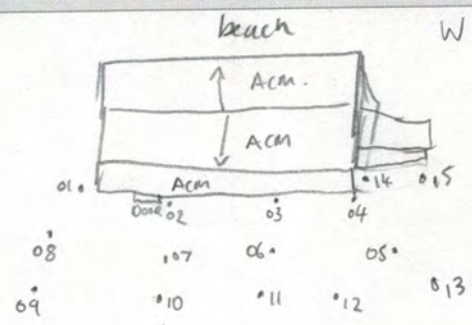
Shack ID:	W162 - turquoise near beach	**Marked on Plan**	(Y) N

Sample Locations

Sample ID	W16_W162_AF_001	**GPS**	
Sample ID		**GPS**	
Sample ID		**GPS**	
Sample ID		**GPS**	
Sample ID		**GPS**	
Sample ID		**GPS**	
Sample ID		**GPS**	
Sample ID		**GPS**	
Sample ID		**GPS**	
Sample ID		**GPS**	
Sample ID		**GPS**	
Sample ID		**GPS**	
Sample ID		**GPS**	
Sample ID	V 15	**GPS**	
Sample ID	completed sampling 1-26	**GPS**	
Photo IDs	Commenced records 1.27. completed records 1.56.		

Drove to Shack 170.

Comments / Mud Map



New pipe gutter system surrounding roof of shack
Acm Roof and walls
Newly painted.

Field Recorder Initial: SH

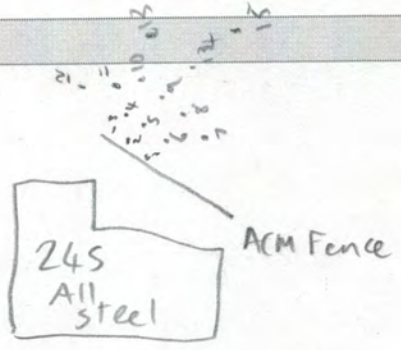
Data Management Initial: _____

senversa

Asbestos Fibre Sampling

Date:	12/8	Map Number:	WM15
Time:	1.10	Record Number:	
Field Personnel:	SH AB	13.37	
Location Identification	W245		
Shack ID:		Marked on Plan	(Y)/N
Sample Locations			
Sample ID	W245_AF_01	GPS	
Sample ID		GPS	
Sample ID		GPS	
Sample ID		GPS	
Sample ID		GPS	
Sample ID		GPS	
Sample ID		GPS	
Sample ID		GPS	
Sample ID		GPS	
Sample ID		GPS	
Sample ID		GPS	
Sample ID		GPS	
Sample ID		GPS	
Sample ID		GPS	
Sample ID	V15	GPS	
Photo IDs			

Comments / Mud Map



Records on ARC collector

* 1, 2, 3 analyse
4 5 6
11

Field Recorder Initial: SH

Data Management Initial: _____

senversa

Asbestos Fibre Sampling

Date:	2/8	Map Number:	W15
Time:	14:44	Record Number:	
Field Personnel:	SH. AB		

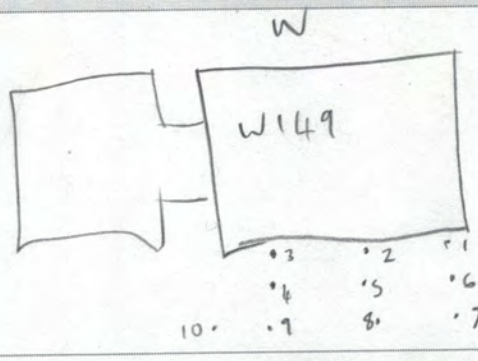
Location Identification

Shack ID:	W149	Marked on Plan	(Y) N

Sample Locations

Sample ID	W149_AF_01	GPS	
Sample ID		GPS	
Sample ID		GPS	
Sample ID		GPS	
Sample ID		GPS	
Sample ID		GPS	
Sample ID		GPS	
Sample ID		GPS	
Sample ID		GPS	
Sample ID		GPS	
Sample ID		GPS	
Sample ID		GPS	
Sample ID		GPS	
Sample ID		GPS	
Sample ID	V 15	GPS	
Sample ID		GPS	
Photo IDs			

Comments / Mud Map



N → replaced for 130 Steel roof, ACM walls.

1, 2, 3, 4, 5, 6 analysed

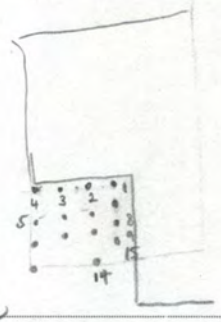
Field Recorder Initial: SH.

Data Management Initial: _____

senversa

Asbestos Fibre Sampling

Date:	2/8/16	Map Number:	W2
Time:	11:30	Record Number:	
Field Personnel:	AB SH		
Location Identification			
Shack ID:	WM55	Marked on Plan	Y / N
Sample Locations			
Sample ID	WSS_AF_01	GPS	
Sample ID	02	GPS	
Sample ID	03	GPS	
Sample ID	04	GPS	
Sample ID	05	GPS	
Sample ID	06	GPS	
Sample ID	07	GPS	
Sample ID	08	GPS	
Sample ID	09	GPS	
Sample ID	10	GPS	
Sample ID	11	GPS	
Sample ID	12	GPS	
Sample ID	13	GPS	
Sample ID	14	GPS	
Sample ID	15	GPS	
Photo IDs			
Comments / Mud Map			



W

Field Recorder Initial: SH

Data Management Initial: _____

senversa

Asbestos Fibre Sampling

Date:	25/7	**Map Number:**	W16
Time:	14.03	**Record Number:**	AF004
Field Personnel:	SJH		

Shack walkover to find suitable locations - 14.05 Start writing bags + Sampling 14.10 Complete sampling and drawing map

Location Identification			
Shack ID:	~~W120~~ W170	**Marked on Plan**	(Y) N 14.33
Sample Locations			complete records on phone
Sample ID	W16_W170_AF_01	**GPS**	14.57
Sample ID		**GPS**	
Sample ID		**GPS**	
Sample ID		**GPS**	
Sample ID		**GPS**	
Sample ID		**GPS**	
Sample ID		**GPS**	
Sample ID		**GPS**	
Sample ID		**GPS**	
Sample ID		**GPS**	
Sample ID		**GPS**	
Sample ID		**GPS**	
Sample ID		**GPS**	
Sample ID		**GPS**	
Sample ID	AF_015	**GPS**	
Sample ID		**GPS**	
Photo IDs	Photos of shack and all samples.		

Comments / Mud Map

All Steel Drip lines apparent in two areas

Steel walls and roof for entire structure

no ACM observed while sampling.

Field Recorder Initial: SH

Data Management Initial: _____

Appendix D: Asbestos Register

Appendix D: Asbestos Register - Table 1

Item No.	Shack/Site	Location	Material Location	Material Description	Extent of Material (m² / m-lin)	Sample Number	Asbestos Type(s)	Friability	Surface Properties	Product Type	Condition	Fibre Release Risk	Disturbance Potential	Recommended Action	Aurora Comments *Senversa Comments*
1	G001	External	North east of shack - Fence	Corrugated fibre cement panels	8m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
3	G001	External	West of shack - South of shed - Fence	Corrugated fibre cement panels	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
4	G001	External	South of shed - Under cover - Loose	Fibre cement panels (insulated)	24m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
5	G001	External	South of shed - Under cover - Loose	Fibre cement panels	8m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
17	G009	External	South of shack - south, east and north walls	Fibre cement panels	28m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Low	Likely - Routinely accessed	Remove or Manage as per AMP	-
20	G009	External	North side of shack - Water tank base - Packers	Fibre cement debris	2m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	Under tank
22	G009	External	East of shack - Seating area (top of hill) - Bench	Fibre cement panels	1.5m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
23	G009	External	South of shack - South, east and north walls	Fibre cement jointing strips	30m-lin	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
30	G014	External	North, east and west of shack - Walls	Corrugated fibre cement panels	10m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
31	G014	External	North side of shack - below window - Infill panel	Shadow-line fibre cement panels	2m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
32	G014	External	North side of shack - above window - Infill panel	Fibre cement panels	2m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
33	G014	External	West and east sides of shack - gable ends	Fibre cement panels	8m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
35	G014	External	North of shack - Sink unit	Bitumen sound dampener membrane	1m²	-	Suspect Asbestos	Non-friable	Composite Material	Composite, bitumen, vinyl	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
36	G014	External	East of shack - Shed entrance door - Infill panel	Fibre cement panels	1.5m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
37	G014	External	East of shack - Shed - East and south walls	Fibre cement panels	6m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
40	G014	External	North of shack - Fence	Corrugated fibre cement panels	9m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
41	G015	External	South of shack - Sink unit	Bitumen sound dampener membrane	1m²	-	Suspect Asbestos	Non-friable	Composite Material	Composite, bitumen, vinyl	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
43	G016	External	South of shack - Sink unit	Bitumen sound dampener membrane	1m²	-	Suspect Asbestos	Non-friable	Composite Material	Composite, bitumen, vinyl	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
45	G017	External	North, west and east sides of shack - Walls	Corrugated fibre cement panels	46m²	A11619	Crocidolite Chrysotile	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
46	G017	External	Roof	Corrugated fibre cement panels	28m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
47	G017	External	North, east and west of shack - Corners	Fibre cement corner capping	10m-lin	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
52	G017	External	East of shack - Gutter run off	Soil sample	-	G017	Not analysed	-	-	-	-	-	-	None	DSI planned
53	G017	External	North of shack - Shed - Walls	Shadow-line fibre cement panels	55m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
54	G017	External	North of shack - Shed - Corners of shed	Fibre cement corner capping	8m-lin	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
55	G018	External	North of shack - Shed - East of shed (G18a) - Sink unit	Bitumen sound dampener membrane	1m²	-	Suspect Asbestos	Non-friable	Composite Material	Composite, bitumen, vinyl	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
57	G019	External	East of shack - Sink unit	Bitumen sound dampener membrane	1m²	-	Suspect Asbestos	Non-friable	Composite Material	Composite, bitumen, vinyl	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
59	G020	External	East of shack - Sink unit	Bitumen sound dampener membrane	1m²	-	Suspect Asbestos	Non-friable	Composite Material	Composite, bitumen, vinyl	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
61	G022	External	North side of shack - Wall	Fibre cement panels	20m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	Undercover area and walkway, north of shack
62	G022	External	North side of shack - Wall	Fibre cement jointing strips	8m-lin	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	Undercover area and walkway, north of shack
63	G022	External	North side of shack - Wall	Shadow-line fibre cement panels	2m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	Undercover area and walkway, north of shack

Appendix D: Asbestos Register - Table 1

Item No.	Shack/Site	Location	Material Location	Material Description	Extent of Material (m^2 / m-lin)	Sample Number	Asbestos Type(s)	Friability	Surface Properties	Product Type	Condition	Fibre Release Risk	Disturbance Potential	Recommended Action	Aurora Comments *Senversa Comments*
64	G022	External	North side of shack - North infill panel	Fibre cement panels	4m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	Undercover area and walkway, north of shack
65	G022	External	Corners of shack	Fibre cement corner capping	8m-lin	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
67	G022	External	North east of shack - Ground	Fibre cement pipe	1.5m-lin	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
68	G022	External	East of shack - Water tank shuttering / fence	Corrugated fibre cement panels	36m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
69	G022	External	East of shack - Fence	Shadow-line fibre cement panels	2m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
71	G022	External	Roof	Corrugated fibre cement panels	32m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Low damage / deterioration	Very Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	Roof run-off to tank and ground. Suspect asbestos impacts to both
74	G022	External	South of shack - Inside Shed - Loose	Fibre cement panels	4m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
76	G022	External	West of shack - Wall	Corrugated fibre cement panels	22m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	Also to part of south wall
77	G022	External	South gable end of roof	Shadow-line fibre cement panels	3m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
78	G023	External	West of shack - Sink unit	Bitumen sound dampener membrane	1m²	-	Suspect Asbestos	Non-friable	Composite Material	Composite, bitumen, vinyl	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
81	G024	External	South of shack - south and (part of) west wall	Corrugated fibre cement panels	8m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
82	G025	External	South side of shack - Entrance door - Infill panel	Fibre cement panels	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
83	G025	External	Perimeter of shack - Fence	Corrugated fibre cement panels	28m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
86	G025	External	South of shack - Garden bed - Shuttering	Fibre cement panels	2.5m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
87	G025	External	East of shack - Fence (next to metal shed)	Corrugated fibre cement panels	2m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
90	G025	External	East of shack - Sink unit	Bitumen sound dampener membrane	1m²	A11618	Chrysotile	Non-friable	Composite Material	Composite, bitumen, vinyl	Good condition, no damage	Very Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	(sprayed)
92	G025	External	East of shack - Shuttering	Corrugated fibre cement panels	4m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
98	G028	External	North and south of shack - Eaves lining	Fibre cement panels	8m-lin	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
99	G028	External	West, north and south of shack - Walls	Corrugated fibre cement panels	55m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
100	G028	External	Roof	Corrugated fibre cement panels	64m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	Roof run-off to tank and ground. Suspect asbestos impacts to both
103	G028	External	South west of shack - Ground (adjacent plastic water tank)	Fibre cement debris	30m²	G2_G28_26	Chrysotile & Amosite	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	*ACM fragments scattered on surface and possibly buried around the western and southern walls of shack.*
104	G028	External	South west of shack - Ground	Soil sample	-	G028	Not analysed	-	-	-	-	-	-	None	DSI planned
106	G028	External	East of shack - Gutter	Gutter deposit sample	-	A11621	Amosite Chrysotile	FA	Asbestos cement fragments	Fibre cement roof deposits	High Damage, delamination, debris	High	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
107	G029	External	East of shack - Sink unit	Bitumen sound dampener membrane	20cm²	-	Suspect Asbestos	Non-friable	Composite Material	Composite, bitumen, vinyl	Low damage / deterioration	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
108	G029	External	South and east of shack - Walls	Fibre cement panels	18m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
111	G030	External	South of shack - Window ledge	Fibre cement debris	30cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	30cm² on window ledge
113	G032	External	West of north shack - Wall	Corrugated fibre cement panels	8m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
114	G032	External	South, east and north of south shack - Walls	Corrugated fibre cement panels	36m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
115	G032	External	South shack - Roof	Corrugated fibre cement panels	28m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
116	G032	External	East of south shack - Gutter run off	Soil sample	-	G032	Not analysed	-	-	-	-	-	-	None	DSI planned

Appendix D: Asbestos Register - Table 1

Item No.	Shack/Site	Location	Material Location	Material Description	Extent of Material (m² / m-lin)	Sample Number	Asbestos Type(s)	Friability	Surface Properties	Product Type	Condition	Fibre Release Risk	Disturbance Potential	Recommended Action	Aurora Comments *Senversa Comments*
117	G032	External	South shack - East gable end	Fibre cement panels	1.2m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
119	G032	External	South shack - Gable end above roof	Fibre cement panels	4m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
120	G032	External	South of south shack - Ground	Corrugated fibre cement panels	20m²	G1_G32_016	Chrysotile, Amosite & Crocidolite	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	*Large ACM fragments scattered on surface and some partially buried. One large piece of sheeting.*
127	G038	External	South and east of shack - Walls	Shadow-line fibre cement panels	18m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
129	G038	External	South east of shack - Fence	Corrugated fibre cement panels	8m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
130	G038	External	East of shack - Shed - Roof	Corrugated fibre cement panels	12m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
131	G038	External	East of shack - Fence to garden area	Corrugated fibre cement panels	8m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
132	G038	External	North east of shack - Shed - Fencing	Shadow-line fibre cement panels	1m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
133	G038	External	North east of shack - Shed - Fencing	Corrugated fibre cement panels	1m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
135	G040	External	Walls of shack	Fibre cement panels	50m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
139	G040	External	East of shack - Sink unit	Bitumen sound dampener membrane	1m²	-	Suspect Asbestos	Non-friable	Composite Material	Composite, bitumen, vinyl	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	(sprayed)
143	G043	External	South east of shack - Sink unit	Bitumen sound dampener membrane	1m²	-	Suspect Asbestos	Non-friable	Composite Material	Composite, bitumen, vinyl	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
146	G044	External	Walls of shack	Fibre cement panels	48m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
147	G044	External	Walls of shack	Fibre cement jointing strips	14m-lin	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
148	G044	External	North side of shack - Gable end	Shadow-line fibre cement panels	2m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
149	G044	External	North and south side of shack - Roof	Fibre cement end capping	8m-lin	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
150	G044	External	Corners of shack	Fibre cement corner capping	8m-lin	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
151	G044	External	Roof	Corrugated fibre cement panels	24m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	Roof run-off to tanks. Suspect asbestos impacts
153	G044	External	East of shack - Shed - Roof	Corrugated fibre cement panels	10m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
154	G044	External	Perimeter of shack - Eaves lining	Fibre cement panels	10m-lin	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
155	G044	External	East of shack - Old outhouse - West, north and east walls	Corrugated fibre cement panels	18m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
156	G044	External	East of shack - Old outhouse - Roof	Corrugated fibre cement panels	16m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
157	G044	External	North of shack - Ground (gutter run off)	Soil sample	-	G044	Not analysed	-	-	-	-	-	-	None	DSI planned
158	G045 - Under Parks & Wildlife control	External	East of shack - Wall	Shadow-line fibre cement panels	16m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
159	G045 - Under Parks & Wildlife control	Internal	Kitchen - sink unit	Bitumen sound dampener membrane	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
160	G045 - Under Parks & Wildlife control	Internal	Kitchen - hob cooker splash back	Fibre cement panels	0.5m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
161	G046	External	Windows	Window putty	6m-lin	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
162	G046	External	North of shack - South east of shed - Sink unit	Bitumen sound dampener membrane	1m²	-	Suspect Asbestos	Non-friable	Composite Material	Composite, bitumen, vinyl	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	(sprayed)
164	G047	External	South east of shack - Shed - Walls	Corrugated fibre cement panels	30m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
165	G047	External	South east of shack - Shed - Roof	Corrugated fibre cement panels	12m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-

Appendix D: Asbestos Register - Table 1

Item No.	Shack/Site	Location	Material Location	Material Description	Extent of Material (m^2 / m-lin)	Sample Number	Asbestos Type(s)	Friability	Surface Properties	Product Type	Condition	Fibre Release Risk	Disturbance Potential	Recommended Action	Aurora Comments *Senversa Comments*
169	G048	External	South of shack - shuttering amongst stone	Corrugated fibre cement panels	1m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
171	G048	External	South of shack - Internal panel (above metal sheet section)	Fibre cement panels	1m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
172	G048	External	South east side of shack - Ceiling	Fibre cement panels	1.5m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
174	G048	External	North west of shack - Fence	Corrugated fibre cement panels	10m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
175	G048	External	North of shack - Under cover area - Ground	Fibre cement debris	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	8m² impacted - surface
176	G048	External	North of shack - Entrance door - Infill panel	Fibre cement panels	2m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
179	G050	External	South east of shack - Ground	Corrugated fibre cement panels	2m²	G2_G50_20	Chrysotile & Amosite	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	*Stockpile of ACM sheets.*
180	G050	External	East of shack - Driveway / ground	Bitumen sound dampener membrane	0.5m²	-	Suspect Asbestos	Non-friable	Composite Material	Composite, bitumen, vinyl	Low damage / deterioration	Very Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	3m² impacted - surface debris
181	G050	External	North east of shack - On trailer and ground below	Fibre cement debris	0.8m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	2m² impacted - sub surface
184	G052	External	South of shack - Under cover area - Wall	Fibre cement panels	60cm²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
185	G052	External	East of shack - Ground - Sink unit	Bitumen sound dampener membrane	1m²	-	Suspect Asbestos	Non-friable	Composite Material	Composite, bitumen, vinyl	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
190	G055	External	North of shack - Fence	Corrugated fibre cement panels	12m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
191	G055	External	East of shack - Fence	Corrugated fibre cement panels	6m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
192	G055	External	North of shack - loaded on trailer	Corrugated fibre cement panels	12m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Likely - Routinely accessed	Remove or Manage as per AMP	Including debris
193	G055	External	South and east of shack - Walls	Fibre cement panels	4m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
194	G055	External	South and east of shack - Walls	Corrugated fibre cement panels	10m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
195	G055	External	South east of shack - Fence	Corrugated fibre cement panels	10m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
198	G055	External	East of shack - South of metal shed - Fence	Corrugated fibre cement panels	2m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
199	G055	External	South east of shack - South of plastic water tanks - Loose	Corrugated fibre cement panels	2m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
201	G055	External	South west of shack - Fence	Corrugated fibre cement panels	8m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
202	G056	External	North west of shack - Loose	Fibre cement panels	2m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
203	G056	External	North east shed - Floor	Fibre cement panels	12m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
206	G056	External	South east shed - West of shed - Loose	Corrugated fibre cement panels	2m²	G2_G56_23	Chrysotile & Crocidolite	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	*Stack of suspect ACM sheeting.*
209	G057	External	Shack walls	Fibre cement panels	30m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
210	G057	External	Windows	Window putty	6m-lin	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
211	G058	External	West of shack - Sink unit	Bitumen sound dampener membrane	10cm²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
212	G058	External	Windows	Window putty	5m-lin	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
213	G059	External	South of shack - Garden bed shuttering	Corrugated fibre cement panels	8m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
214	G059	External	South of shack - Garden bed shuttering	Corrugated fibre cement debris	0.5m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	2m² impacted - sub surface
215	G059	External	West of shack - disused sink unit	Bitumen sound dampener membrane	0.5m²	-	Suspect Asbestos	Non-friable	Composite Material	Composite, bitumen, vinyl	Good condition, no damage	Very Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-

Appendix D: Asbestos Register - Table 1

Item No.	Shack/Site	Location	Material Location	Material Description	Extent of Material (m² / m-lin)	Sample Number	Asbestos Type(s)	Friability	Surface Properties	Product Type	Condition	Fibre Release Risk	Disturbance Potential	Recommended Action	Aurora Comments *Senversa Comments*
216	G060	External	West side of shack - (low level) Infill panels	Fibre cement panels	8m-lin	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
217	G061	External	West of shack - Garden fence	Corrugated fibre cement panels	6m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
218	G061	External	North of shack - Garden fence	Corrugated fibre cement panels	4m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
219	G061	External	East of shack - Garden fence	Corrugated fibre cement panels	4m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
220	G061	External	Windows	Window putty	6m-lin	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
223	G064	External	North and west of shack - Walls	Corrugated fibre cement panels	34m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
225	G064	External	East of shack - Sink unit	Bitumen sound dampener membrane	1m²	-	Suspect Asbestos	Non-friable	Composite Material	Composite, bitumen, vinyl	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
226	G064	External	East of shack - West wall of outhouse	Corrugated fibre cement panels	1m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
229	G066	External	West of shack - Gutter packer	Fibre cement panel	40cm²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
230	G066	External	North of shack - Small fence to tank area	Fibre cement panels	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
233	G069	External	Windows	Window putty	4m-lin	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
234	G069	External	West of shack - Garden bed shuttering	Fibre cement panels	1.5m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
238	G070	External	Windows	Window putty	3m-lin	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
239	G071	External	South gable end of roof	Fibre cement panels	4m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
240	G072	External	West of shack - North and south sides - upper level wall panels	Fibre cement panels	12m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
241	G072	External	North of shack - Entrance walkway - Garden bed shuttering	Corrugated fibre cement panels	5m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
244	G072	External	North of shack - Adjacent water tank - Sink unit	Bitumen sound dampener membrane	1m²	-	Suspect Asbestos	Non-friable	Composite Material	Composite, bitumen, vinyl	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
249	G072	External	West of shack - High level infill panel	Fibre cement panels	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
250	G072	External	West of shack - Under shack - Water pipe penetration	Fibre cement debris	20cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	2m² impacted - surface
251	G073	External	North, south and west of shack - Walls	Shadow-line fibre cement panels	24m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
252	G073	External	West of shack - Walls	Fibre cement panels	12m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	Including part of south wall
253	G073	External	North of shack - Under cover area - Door infill panel	Fibre cement panels	0.5m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
254	G073	External	Corners of shack	Fibre cement corner capping	10m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
255	G073	External	Roof	Corrugated fibre cement panels	40m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	Roof run-off to tank and ground. Suspect asbestos impacts to both
258	G073	External	West of shack - Roof run off	Soil sample	-	G73	Chrysotile	AF	Asbestos cement fragments	Asbestos cement in soil	High Damage, delamination, debris	Moderate	Likely - Routinely accessed	Remove or Manage as per AMP	At DOH reporting limit
259	G073	External	North of shack - Gutter	Gutter deposit sample	-	A11624	Amosite Chrysotile	FA	Asbestos cement fragments	Fibre cement roof deposits	High Damage, delamination, debris	High	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
260	G074	External	South of shack - Sink unit	Bitumen sound dampener membrane	0.5m²	-	Suspect Asbestos	Non-friable	Composite Material	Composite, bitumen, vinyl	Low damage / deterioration	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	(sprayed)
261	G075	External	South west of shack - Fence	Corrugated fibre cement panels	16m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
264	G075	External	East of shack - Entrance door - Infill panel	Fibre cement panels	3m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	3 panels
265	G075	External	East of shack - Fence	Corrugated fibre cement panels	2m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-

Appendix D: Asbestos Register - Table 1

Item No.	Shack/Site	Location	Material Location	Material Description	Extent of Material (m² / m-lin)	Sample Number	Asbestos Type(s)	Friability	Surface Properties	Product Type	Condition	Fibre Release Risk	Disturbance Potential	Recommended Action	Aurora Comments *Senversa Comments*
266	G075	External	Windows	Window putty	6m-lin	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
268	G076	External	East of shack - Fence	Shadow-line fibre cement panels	8m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
271	G076	External	South of shack - Shed - south gable end	Fibre cement panels	2.5m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
272	G076	External	South of shack - South east of shed - 'Grey Fire Brigade' sign	Fibre cement panels	2m-lin	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
273	G077	External	North of shack - West of north shed - Sink unit on ground	Bitumen sound dampener membrane	1m²	-	Suspect Asbestos	Non-friable	Composite Material	Composite, bitumen, vinyl	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	(sprayed)
276	G078	External	North of shack - West of far north shed - Sink unit	Bitumen sound dampener membrane	1m²	-	Suspect Asbestos	Non-friable	Composite Material	Composite, bitumen, vinyl	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	(sprayed)
277	G079	External	North and north west of shack - Fence	Corrugated fibre cement panels	44m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
282	G080	External	South west of shack - Outhouse - Walls	Fibre cement panels	10m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
284	G080	External	West of shack - Sink unit	Bitumen sound dampener membrane	1m²	-	Suspect Asbestos	Non-friable	Composite Material	Composite, bitumen, vinyl	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
288	G083	External	South east of shack - South of shed - Sink unit	Bitumen sound dampener membrane	1m²	-	Suspect Asbestos	Non-friable	Composite Material	Composite, bitumen, vinyl	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
289	G083	External	South east of shack - Inside shed - Loose	Fibre cement panels	3m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
290	G083	External	North east of shack - Fence	Corrugated fibre cement panels	6m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
293	G085	External	North of shack - Ground	Fibre cement debris	100m²	G2_G85_019	Chrysotile & Amosite	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	*ACM fragments scattered on surface and possibly buried.*
	G085	External	East of shack - Ground	Corrugated fibre cement panels	4m²	G2_G85_018	Chrysotile & Amosite	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	*ACM sheeting against shed.*
294	G086	External	North of shack - Sink unit	Bitumen sound dampener membrane	1m²	-	Suspect Asbestos	Non-friable	Composite Material	Composite, bitumen, vinyl	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
296	G086	External	South of shack - Low level panels	Fibre cement panels	2m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
297	G086	External	South and south east of shack - (above window) Infill panel	Fibre cement panels	4m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
298	G086	External	South east of shack - Fence	Corrugated fibre cement panels	10m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
299	G086	External	South east of shack - Fence	Corrugated fibre cement panels	10m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
300	G086	External	South east of shack - Fence	Shadow-line fibre cement panels	5.5m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
303	G088	External	South of shack - Decking shuttering	Corrugated fibre cement panels	1.5m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
304	G088	External	South of shack - Internal gable, roof level	Fibre cement infill panels	4m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
305	G088	External	South of shack - Between metal sheds - Fence	Corrugated fibre cement panels	4m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
307	G088	External	South west of shack - Sink unit	Bitumen sound dampener membrane	1m²	-	Suspect Asbestos	Non-friable	Composite Material	Composite, bitumen, vinyl	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
309	G090	External	North of shack - Fence	Corrugated fibre cement panels	10m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
311	G091	External	East and south of shack - Walls	Shadow-line fibre cement panels	22m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
312	G091	External	South west of shack - West of fence	Corrugated fibre cement panels	4m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
313	G091	External	North and west of shack - Fence	Corrugated fibre cement panels	14m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
315	G091	External	East of shack - Loose (next to metal shed)	Corrugated fibre cement panels	4m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
316	G091	External	North of shack - Far north shed - Walls	Corrugated fibre cement panels	6m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-

Appendix D: Asbestos Register - Table 1

Item No.	Shack/Site	Location	Material Location	Material Description	Extent of Material (m² / m-lin)	Sample Number	Asbestos Type(s)	Friability	Surface Properties	Product Type	Condition	Fibre Release Risk	Disturbance Potential	Recommended Action	Aurora Comments *Senversa Comments*
317	G091	External	North of shack - Far north shed - Roof	Corrugated fibre cement panels	4m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Low damage / deterioration	Very Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
318	G092	External	North, south and west walls of shack	Shadow-line fibre cement panels	40m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
319	G092	External	North of shack - Garden bed shuttering	Corrugated fibre cement panels	6m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	Including debris
320	G092	External	North of shack - Loose	Corrugated fibre cement panels	2m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
321	G092	External	North of shack - Low level panels to water tank and shed	Corrugated fibre cement panels	6m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
324	G092	External	Roof	Corrugated fibre cement panels	32m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	Roof run-off to tank and ground. Suspect asbestos impacts to both
325	G092	External	East of shack - Small fence	Corrugated fibre cement panels	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
326	G092	External	Corners of shack	Fibre cement corner capping	6m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	3 corners
327	G092	External	West of shack - Eaves lining	Fibre cement panels	8m-lin	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
329	G094	External	Shack walls	Shadow-line fibre cement panels	100m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
330	G094	External	Roof	Corrugated fibre cement panels	75m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
331	G094	External	Infill panel below roof	Fibre cement panels	20m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
332	G094	External	Corners of shack	Fibre cement corner capping	8m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
335	G094	External	South of shack - Water pipe to ground	Fibre cement pipe	4m-lin	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
336	G094	External	South west of shack - Water pipe to ground	Fibre cement pipe	1m-lin	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
337	G094	External	Roof drip line	Soil sample	-	G094	Not analysed	-	-	-	-	-	-	None	DSI planned
341	G097	External	East and north of shack - Infill panel (top of wall)	Fibre cement panels	3m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
342	G097	External	Corners of shack	Fibre cement corner capping	4m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
343	G097	External	West eaves - Eaves lining	Fibre cement panels	4m-lin	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
346	G097	External	East and north of shack - Walls	Shadow-line fibre cement panels	22m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
348	G098	External	West of shack - Fence (under cover area)	Fibre cement panels	8m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
349	G098	External	West of shack - Entrance door - Infill panel	Fibre cement panels	50cm²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
350	G098	External	South of shack - Sink units	Bitumen sound dampener membranes	2m²	-	Suspect Asbestos	Non-friable	Composite Material	Composite, bitumen, vinyl	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	2 sink units
351	G098	External	South of shack - Loose	Fibre cement panels	1.5m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
352	G099	External	South and west walls of shack	Shadow-line fibre cement panels	12m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
354	G099	External	North of shack - North of shed - Loose	Shadow-line fibre cement panels	6m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
355	G099	External	North of shack - North of shed - Loose	Corrugated fibre cement panels	10m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	*Multiple suspect flat and round ACM sheets. Unable to be sampled due to bee hive.*
356	G100	External	South of shack - Sink unit	Bitumen sound dampener membrane	1m²	-	Suspect Asbestos	Non-friable	Composite Material	Composite, bitumen, vinyl	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
357	G100	External	South east walls of shack	Fibre cement columns / supports	60m²	A11628	Amosite Chrysotile	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
359	G100	External	South east of shack - Packers for water tank	Fibre cement debris	2m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	Packers to base of water tank

Appendix D: Asbestos Register - Table 1

Item No.	Shack/Site	Location	Material Location	Material Description	Extent of Material (m² / m-lin)	Sample Number	Asbestos Type(s)	Friability	Surface Properties	Product Type	Condition	Fibre Release Risk	Disturbance Potential	Recommended Action	Aurora Comments *Senversa Comments*
362	G100	External	North east of shack - Loose	Fibre cement panels	4m²	G3_G100_003	Chrysotile & Amosite	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	*ACM sheeting against fence.*
363	G100	External	North of shack - Wall	Fibre cement panels	2m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
364	G100	External	North of shack - Fence (north east)	Corrugated fibre cement panels	2m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
365	G100	External	North of shack - Small gap between shack walls	Corrugated fibre cement debris	1m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	0.5m² impacted - surface
368	G101	External	South, north and east walls of shack	Corrugated fibre cement panels	40m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
369	G101	External	Roof	Corrugated fibre cement panels	44m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	Roof run-off to tank and ground. Suspect asbestos impacts to both
371	G101	External	South east and east corners of shack	Fibre cement corner capping	4m-lin	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
372	G102	External	South east corner of shack	Fibre cement corner capping	2m-lin	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
373	G102	External	West and south walls of shack	Corrugated fibre cement panels	50m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
374	G102	External	Roof	Corrugated fibre cement panels	46m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	Roof run-off to tank and ground. Suspect asbestos impacts to both
378	G103	External	Roof	Corrugated fibre cement panels	46m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Low damage / deterioration	Very Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	Water to ground
379	G103	External	West and north walls of shack	Corrugated fibre cement panels	20m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
384	G106	External	Roof	Corrugated fibre cement panels	80m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
385	G106	External	North, east and south walls	Corrugated fibre cement panels	66m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
386	G106	External	East of shack - Ground	Soil sample	-	G106	Not analysed	-	-	-	-	-	-	None	DSI planned
387	G106	External	East of shack - Ground	Corrugated fibre cement panels	20m²	G3_G106_004	Chrysotile & Amosite	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	*Broken suspect ACM sheeting.*
388	G106	External	Corners of shack	Fibre cement corner capping	6m-lin	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
389	G106	External	West of shack - Ground	Corrugated fibre cement panels	40cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	3m² impacted - sub surface
390	G106	External	West and (part of) north of shack - Walls	Corrugated fibre cement panels	24m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
391	G106	External	Roof	Fibre cement end capping	8m-lin	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
393	G107	External	East, west and south walls of shack	Corrugated fibre cement panels	90m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
394	G107	External	Roof	Corrugated fibre cement panels	60m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	Roof run-off to tank and ground. Suspect asbestos impacts to both
396	G107	External	North and south gable ends of shack	Fibre cement panels	8m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
397	G107	External	Corners of shack	Fibre cement corner capping	12m-lin	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
398	G107	External	Eaves lining	Fibre cement panels	4m-lin	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
401	G107	External	West of shack - Shed - Corner capping	Fibre cement corner capping	6m-lin	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
402	G107	External	West of shack - North shed - Roof	Corrugated fibre cement panels	6m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
403	G107	External	West of shack - North shed - Walls	Corrugated fibre cement panels	22m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
404	G107	External	West of shack - North shed - Corners	Fibre cement corner capping	8m-lin	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
405	G107	External	West of shack - North shed - Roof edges	Fibre cement end capping	6m-lin	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-

Appendix D: Asbestos Register - Table 1

Item No.	Shack/Site	Location	Material Location	Material Description	Extent of Material (m² / m-lin)	Sample Number	Asbestos Type(s)	Friability	Surface Properties	Product Type	Condition	Fibre Release Risk	Disturbance Potential	Recommended Action	Aurora Comments *Senversa Comments*
408	G107	External	West of shack - Gutter run off	Soil sample	-	G107	Crocidolite Chrysotile	AF	Asbestos cement fragments	Asbestos cement in soil	High Damage, delamination, debris	High	Likely - Routinely accessed	Remove or Manage as per AMP	At DOH reporting limit
410	G108	External	Windows	Window putty	7m-lin	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
411	G108	External	North of shack - Fence	Corrugated fibre cement panels	9m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
412	G108	External	North of shack - North of fence - Loose	Fibre cement panels	0.5m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
415	G109	External	South, west and north walls of shack	Fibre cement panels	22m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
416	G109	External	West of shack - Fence / garden shuttering	Corrugated fibre cement panels	22m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
417	G109	External	North of shack	Fibre cement pipe	3.5m-lin	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
418	G109	Internal	Kitchen - south east wall	Fibre cement panels	30m²	A11521	Crocidolite Chrysotile	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
419	G109	Internal	Throughout - all walls	Fibre cement panels	120m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	Excluding south wall and store room north wall
420	G109	Internal	Throughout - all walls	Fibre cement beading/corner capping	50m-lin	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	Excluding south wall and store room north wall
422	G110	Internal	Kitchen - sink unit	Bitumen sound dampener membrane	1m²	-	Suspect Asbestos	Non-friable	Composite Material	Composite, bitumen, vinyl	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
423	G111	External	South and north of north shack - Walls	Corrugated fibre cement panels	24m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
424	G111	External	South and north of north shack - Loose	Fibre cement panels	4m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
425	G111	External	Centre shack - Walls	Corrugated fibre cement panels	30m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
426	G111	External	Centre shack - Roof	Corrugated fibre cement panels	10m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	Water to ground (synthetic grass)
427	G111	External	Corners of shack	Fibre cement corner capping	8m-lin	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
428	G111	External	South shack - Walls	Fibre cement panels	100m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
432	G112	External	North of shack - Sink unit	Bitumen sound dampener membrane	1m²	-	Suspect Asbestos	Non-friable	Composite Material	Composite, bitumen, vinyl	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
433	G112	External	North and east walls of shack	Fibre cement panels	16m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
434	G112	External	North and east walls of shack	Fibre cement jointing strips	16m-lin	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
435	G112	External	Corners of shack	Fibre cement corner capping	4m-lin	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	North east and south east
436	G112	External	South wall of shack	Fibre cement panels	6m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
437	G112	External	South wall of shack (upper section)	Fibre cement panels	3m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
438	G113	External	Roof	Corrugated fibre cement panels	56m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	Water to ground (east side) x2 roof (south and older shack). Suspect asbestos impacts
439	G113	External	Walls of shack	Corrugated fibre cement panels	66m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
440	G113	External	North and south gable end of east side of shack	Fibre cement panels	4m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
441	G113	External	South eaves of west side shack	Fibre cement panels	3m-lin	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
442	G113	External	East corners of shack	Fibre cement corner capping	4m-lin	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
445	G113	Internal	Kitchen - north and south walls	Corrugated fibre cement panels	6m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Likely - Routinely accessed	Remove or Manage as per AMP	-
446	G113	Internal	Lounge - splashback/stove top	Corrugated fibre cement panels	1m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Likely - Routinely accessed	Remove or Manage as per AMP	-

Appendix D: Asbestos Register - Table 1

Item No.	Shack/Site	Location	Material Location	Material Description	Extent of Material (m² / m-lin)	Sample Number	Asbestos Type(s)	Friability	Surface Properties	Product Type	Condition	Fibre Release Risk	Disturbance Potential	Recommended Action	Aurora Comments *Senversa Comments*
447	G113	Internal	Lounge ceiling/roof	Corrugated fibre cement panels	20m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Likely - Routinely accessed	Remove or Manage as per AMP	Also used as wall panels in entrance/sink area 4m² in total
448	G113	Internal	Entrance, sink area - south wall	Electrical mounting board	0.75m²	-	Suspect Asbestos	Non-friable	Composite Material	Composite, bitumen, vinyl	Low damage / deterioration	Very Low	Likely - Routinely accessed	Remove or Manage as per AMP	-
449	G113	Internal	Entrance/sink area - south, west and east walls	Fibre cement panels	2m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Likely - Routinely accessed	Remove or Manage as per AMP	-
450	G113	Alfresco area	South wall	Corrugated fibre cement panels	9m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Low	Likely - Routinely accessed	Remove or Manage as per AMP	-
451	G114	External	Roof	Corrugated fibre cement panels	42m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	Roof run-off to tank and ground. Suspect asbestos impacts to both
452	G114	External	Windows	Window putty	7m-lin	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
453	G115	External	East side of shack - North and east walls	Shadow-line fibre cement panels	18m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
454	G115	External	Corners of east side shack	Fibre cement corner capping	4m-lin	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
460	G115	External	North of shack - Loose	Shadow-line fibre cement panels	10m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
461	G116	External	South east of main shack - Shed - Walls	Shadow-line fibre cement panels	18m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
462	G116	External	South of main shack - Shed - Roof	Corrugated fibre cement panels	5m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
463	G116	External	South of main shack - Shed - Wall	Corrugated fibre cement panels	2m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
	G116	External	South of main shack - South of shed - Ground	Fibre cement panels	2m²	G4_G116_24	Chrysotile & Amosite	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	*Suspect ACM fence sheeting in dune.*
464	G116	External	Main shack - Walls	Corrugated fibre cement panels	20m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
465	G116	External	Corners of shack	Fibre cement corner capping	4m-lin	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
466	G116	External	Main shack - Walls	Corrugated fibre cement panels	30m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
467	G116	External	West of shack - Fence	Corrugated fibre cement panels	6m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
	G116	External	South-west of shack - Ground	Corrugated fibre cement panels	4m²	G4_116_005 G4_G116_25	Chrysotile & Amosite	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	*Five suspect ACM sheets. Also some corner capping noted.*
469	G116	External	North of shack - gable end	Fibre cement end capping	5.5m-lin	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
470	G116	External	Corners of main shack	Fibre cement corner capping	6m-lin	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
474	G116	External	North of shack - Small metal shed - Roof	Corrugated fibre cement panels	4m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
475	G116	External	North of shack - Small metal shed - walls	Corrugated fibre cement panels	10m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
476	G116	External	North of shack - Small metal shed - Internal	Electrical mounting board	0.5m²	-	Suspect Asbestos	Non-friable	Composite Material	Composite, bitumen, vinyl	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
477	G117	External	East of shack - disused sink unit	Bitumen sound dampener membrane	1m²	-	Suspect Asbestos	Non-friable	Composite Material	Composite, bitumen, vinyl	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
479	G119	External	Entrance door - Infill panel	Fibre cement panels	3m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
480	G119	External	Entrance walkway - Shuttering	Corrugated fibre cement panels	9m-lin	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
481	G119	External	Windows	Window putty	11m-lin	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
482	G119	External	West of shack - Shuttering	Corrugated fibre cement panels	8m-lin	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
484	G120	External	South east and south west of shack - Walls	Fibre cement panels	44m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
486	G120	External	North of shack - Wall	Shadow-line fibre cement panels	8m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-

Appendix D: Asbestos Register - Table 1

Item No.	Shack/Site	Location	Material Location	Material Description	Extent of Material (m² / m-lin)	Sample Number	Asbestos Type(s)	Friability	Surface Properties	Product Type	Condition	Fibre Release Risk	Disturbance Potential	Recommended Action	Aurora Comments *Senversa Comments*
487	G120	External	North west of shack - Sink unit	Bitumen sound dampener membrane	1m²	-	Suspect Asbestos	Non-friable	Composite Material	Composite, bitumen, vinyl	Good condition, no damage	Very Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	(sprayed)
488	G120	External	West of shack - Wall - Window infill panel	Fibre cement panels	2m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
	G120	External	South of shack - Fence	Corrugated fibre cement panels	1m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	*Suspect ACM fence buried in ground.*
489	G120	North shack - External	Windows	Window putty	7m-lin	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
490	G120	Internal - north shack	South east bedroom - west wall	Fibre cement panels	12m²	A11516	Chrysotile	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
491	G120	Internal - north shack	Lounge/dining areas - walls	Fibre cement panels	37m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
492	G120	Internal - north shack	Dining area - north and south gable ends	Fibre cement panels	4m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
493	G120	Internal - south shack	Throughout - all walls	Fibre cement panels	160m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
494	G120	Internal - south shack	Dining room - oven	Rope seals	<1m²	A11517	Chrysotile	Friable	Unsealed thermal insulation	LDB, paper, textiles	Low damage / deterioration	Moderate	Almost Certain - Internal residency	Remove or Manage as per AMP	-
495	G120	Internal - south shack	Kitchen - sink unit	Bitumen sound dampener membrane	<1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
496	G121	External	Walls of shack	Fibre cement panels	66m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
497	G121	External	Windows	Window putty	6m-lin	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
498	G121	External	North west of shack - Sink unit	Bitumen sound dampener membrane	0.5m²	-	Suspect Asbestos	Non-friable	Composite Material	Composite, bitumen, vinyl	Low damage / deterioration	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
499	G122	External	North of shack - Garden bed (loose)	Fibre cement panels	0.2m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
500	G122	External	North of shack - infill panels above canopy	Fibre cement panels	2m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
501	G122	External	North of shack - Walkway canopy, end panel	Fibre cement panels	0.5m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
502	G122	External	North of shack - Water tank shuttering	Corrugated fibre cement panels	1.5m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
503	G122	External	North west of shack - Patio shuttering	Fibre cement panels	1.5m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
504	G122	External	West of shack - Ground	Fibre cement debris	40m²	G5_G122_12	Chrysotile & Amosite	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	*Suspect ACM buried in dune along western side of shack. Surface fragments removed as far as practical.*
505	G122	External	South west of shack - Wall	Fibre cement panels	5m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
508	G122	External	South of shack - Loose	Fibre cement panels	3m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
509	G122	External	South of shack - North of shed - Loose	Fibre cement panels	7m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
510	G122	External	South east of shack - Loose	(Thick) Fibre cement panels	1.2m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
512	G124	External	South east and east of shack - Base of water tank and garden bed - Shuttering	Corrugated fibre cement panels	7.5m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
513	G124	External	West and east of shack - Walls	Corrugated fibre cement panels	26m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
515	G124	External	North and south of shack - Walls	Fibre cement panels	27m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
517	G126	External	South of shack - Eaves lining	Fibre cement panels	4.5m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
518	G127	External	North of shack - disused (in bush) - Sink unit	Bitumen sound dampener membrane	0.2m²	-	Suspect Asbestos	Non-friable	Composite Material	Composite, bitumen, vinyl	Low damage / deterioration	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
519	G128	External	East of shack - Under cover area - Sink unit	Bitumen sound dampener membrane	1m²	-	Suspect Asbestos	Non-friable	Composite Material	Composite, bitumen, vinyl	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
520	G128	External	Windows	Window putty	7m-lin	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-

Appendix D: Asbestos Register - Table 1

Item No.	Shack/Site	Location	Material Location	Material Description	Extent of Material (m² / m-lin)	Sample Number	Asbestos Type(s)	Friability	Surface Properties	Product Type	Condition	Fibre Release Risk	Disturbance Potential	Recommended Action	Aurora Comments *Senversa Comments*
521	G129	External	East side of shack - Entrance walkway loose	Fibre cement panels	10m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
524	G129	External	North of shack - North east wall	Fibre cement panels	6m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
525	G129	External	North of shack - Sink unit loose	Bitumen sound dampener membrane	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
526	G129	External	West of shack - Ground	Fibre cement debris	50m²	G5_G129_10	No Asbestos Detected	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	*Suspect ACM scattered over surface. Noted to be buried in mound beneath shack. Remains outstanding due to varied nature of fragments observed.*
528	G130	External	Walls of shack	Fibre cement panels	140m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
530	G130	External	Window shutters/covers	Fibre cement panels	8m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
531	G130	External	North east of shack - Fence	Corrugated fibre cement panels	4m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
532	G130	External	North east of shack - Fence	Corrugated fibre cement panels	4m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	Mixed aged panels
529	G130	External	Surrounding shack - Ground	Fibre cement debris	>600m²	G5_G130_11	No Asbestos Detected	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	*Scattered suspect ACM fragments throughout entire shack footprint. Remains outstanding due to varied nature of fragments observed.*
533	G130	External	East of shack - Loose / ground	Corrugated fibre cement panels	8m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
534	G130	External	North east of shack - Ground	Fibre cement debris	80cm²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	Impacted area - 24m² - sub- surface
535	G130	External	South of shack - Ground	Fibre cement debris	4m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	Impacted area - 40m² - sub- surface (to base of water tank)
536	G131	External	South west of shack - Fence	Corrugated fibre cement panels	4m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
537	G131	External	Windows	Window putty	7m-lin	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
538	G131	External	East side of shack - Shed fencing	Corrugated fibre cement panels	5m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
540	G131	External	North west side of shack - Fence	Corrugated fibre cement panels	5m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
541	G131	External	North west side of shack - Sink unit	Bitumen sound dampener membrane	1m²	-	Suspect Asbestos	Non-friable	Composite Material	Composite, bitumen, vinyl	Good condition, no damage	Very Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
543	G133	External	East of shack - Loose	Fibre cement panels	4m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
545	G133	External	North west of shack - Sink unit	Bitumen sound dampener membrane	1m²	-	Suspect Asbestos	Non-friable	Composite Material	Composite, bitumen, vinyl	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
547	G135	External	East side of shack - South of metal fence - Loose	Fibre cement panels	1.5m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
548	G135	External	East side of shack - South of metal fence	Fibre cement panels (insulated)	8m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
549	G135	External	East of shack - East of metal fence	Fibre cement panels (insulated)	11m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
550	G135	External	East side of shack - West of metal fence - Sink unit	Bitumen sound dampener membrane	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
551	Grey tip site	External	S 30 39 477 E 115 08 146	Asbestos cement (Tilux) debris	-	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
552	Grey tip site	External	S 30 39 477 E 115 08 146	Fibre cement debris	-	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
553	Grey tip site	External	S 30 39 477 E 115 08 146	Corrugated fibre cement debris	-	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
554	Grey tip site	External	S 30 39 477 E 115 08 146	Shadow-line fibre cement debris	-	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
555	Grey tip site	External	S 30 39 465 E 115 08 147	Corrugated fibre cement debris	-	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
557	W002	External	South side of shack - sink unit	Bitumen sound dampener membrane	0.5m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	5m² impacted - surface
560	W003	Internal	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-

Appendix D: Asbestos Register - Table 1

Item No.	Shack/Site	Location	Material Location	Material Description	Extent of Material (m² / m-lin)	Sample Number	Asbestos Type(s)	Friability	Surface Properties	Product Type	Condition	Fibre Release Risk	Disturbance Potential	Recommended Action	Aurora Comments *Senversa Comments*
562	W004	External	South side of shack - Below window in alfresco area	Fibre cement panels	6m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
566	W004	External	South wall - Wall panel	Corrugated fibre cement panel	2m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
567	W004	External	South east of shack - Small shack roof	Corrugated fibre cement panels	2m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Low damage / deterioration	Very Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
570	W006	External	West side of shack - Between W006/W007	Fibre cement panels	7m-lin	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Low	Likely - Routinely accessed	Remove or Manage as per AMP	Hilton building
572	W007	External	West side of shack - between W006/W007 - Sink unit	Bitumen sound dampener membrane	0.5m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
577	W012	External	South west side of shack - Loose	Corrugated fibre cement panels	2m²	W6_W12_001	Chrysotile & Crocidolite	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	*ACM sheeting within vegetation.*
	W012	External	Northern side of shack - Ground (buried)	Fibre cement debris	10m²	-	Suspect Asbestos	Friable	Asbestos cement - poor condition	Fibre Cement Products	High Damage, delamination, debris	High	Unlikely - Occasionally accessed	Remove or Manage as per AMP	*Surface fragments at two locations less than 1 m away between, removed to uncover buried and friable asbestos material. Extent of buried unknown.*
578	W013	External	North west, west, south west and east walls	Fibre cement panels	30m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
579	W013	External	North east, south east and west walls	Corrugated fibre cement panels	20m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	Part corrugated panels
580	W013	External	Roof	Corrugated fibre cement panels	50m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Moderate damage / deterioration	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
	W013	External	Eastern side of shack - Ground (buried)	Fibre cement debris and sheeting	50m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Moderate damage / deterioration	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	*Mound containing ACM sheet and buried fragments southern side of shack in vegetation.*
582	W014	External	Walls of shack	Low density board	70m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
	W014	External	North-west side of shack - Ground (buried)	Fibre cement debris	20m²	W6_W13_013	Chrysotile & Amosite	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Moderate damage / deterioration	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	*Large mound on western side of shack between W14 and W13 partially covered in carpet. Suspected buried ACM throughout. Some exposed surface fragments.*
585	W015	External	South side of shack - against wall - loose	Fibre cement panels	10m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
	W015	External	Eastern side of shack - Ground (buried)	Fibre cement debris	2m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Moderate damage / deterioration	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	*ACM sheeting on surface and buried in mound near southern side of shack.*
589	W017	External	North fencing	Corrugated fibre cement panels	10m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
592	W017	External	South side of shack - wall	Fibre cement panels	13m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
594	W018	External	West and south walls of shack	Fibre cement panels	20m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
595	W018	External	Roof of shack	Corrugated fibre cement panels	45m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
597	W018	External	Roof	Fibre cement end capping	10m-lin	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
598	W018	External	North, south west and east walls of shack	Shadow-line fibre cement panels	20m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
	W018	External	South of shack - Ground (buried)	Fibre cement debris	25m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Moderate damage / deterioration	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	*Buried ACM and exposed sheeting throughout vegetated mound western side of shack*
599	W019	External	All walls of shack	Corrugated fibre cement panels	60m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
600	W019	External	South-east side of shack - Ground	Corrugated fibre cement debris	30m²	W6_W19_002	Chrysotile, Amosite & Crocidolite	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	*ACM sheeting buried and on surface western side of shack.*
601	W019	External	Roof	Corrugated fibre cement panels	80m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
602	W019	External	Ground	Soil sample	-	W019	Not analysed	-	-	-	-	-	-	None	DSI planned
603	W020 - Under Parks & Wildlife control	Internal	Throughout - all walls	Fibre cement panels	112m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
604	W020 - Under Parks & Wildlife control	Internal	North east room - wall	Corrugated fibre cement panels	6m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
605	W020 - Under Parks & Wildlife control	Internal	Bathroom - east wall	Corrugated fibre cement panels	6m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-

Appendix D: Asbestos Register - Table 1

Item No.	Shack/Site	Location	Material Location	Material Description	Extent of Material (m² / m-lin)	Sample Number	Asbestos Type(s)	Friability	Surface Properties	Product Type	Condition	Fibre Release Risk	Disturbance Potential	Recommended Action	Aurora Comments *Senversa Comments*
606	W020 - Under Parks & Wildlife control	Internal	Kitchen - sink unit	Bitumen sound dampener membrane	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
607	W020 - Under Parks & Wildlife control	External	South wall and north east walls of shack	Corrugated fibre cement panels	22m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
608	W020 - Under Parks & Wildlife control	External	Roof	Corrugated fibre cement panels	44m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
	W020 - Under Parks & Wildlife control	External	South side of shack - Ground (buried)	Fibre cement debris	50m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Moderate damage / deterioration	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	*Large mound with visible buried ACM on western side of shack. Newly laid lawn adjacent to mound, possibly buried under lawn as well.*
615	W022	External	North side - wall	Shadow-line fibre cement panels	12m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
616	W023	External	Alfresco area - partially buried	Fibre cement panels	<1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	>20cm² per 1m²
617	W023	External	Alfresco area	Soil sample	-	W023	Not analysed	-	-	-	-	-	-	None	DSI planned
618	W023	External	South and east walls of shack	Fibre cement panels	12m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
626	W025	External	West side of shack - ground	Fibre cement debris	2m²	W5_W25_008	Chrysotile & Amosite	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	*ACM against shack and buried in ground.*
630	W028	External	East and south of shack - Fence	Corrugated fibre cement panels	22m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	Mixture of panels
631	W028	External	East and south of shack - Fence	Corrugated fibre cement panels	16m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	Mixture of panels
632	W028	External	East of shack - East of fence - Loose	Corrugated fibre cement panels	2m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
635	W028	External	South of shack - gable end	Fibre cement panels	4m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
636	W028	External	South of shack - Window	Fibre cement panels	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
637	W028	External	West of shack - North, south and west walls	Fibre cement panels	32m²	A11612	Amosite Chrysotile	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
638	W028	External	West of shack - North, south and west walls	Fibre cement jointing strips	24m-lin	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
639	W028	External	West of shack - Corners of shack	Fibre cement corner capping	8m-lin	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
642	W030a	External	West of shack - Fence	Corrugated fibre cement panels	30m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
646	W032	External	East side of shack - Fence	Corrugated fibre cement panels	5m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
648	W032	External	West side of shack - Garage, loose / stored	Fibre cement panels	7m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
	W032	External	South of shack - Ground	Fibre cement panels	20m²	W2_W32_003	Chrysotile & Crocidolite	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	*ACM sheet and fragments buried and visible in soil western side of shack.*
651	W033	Internal	Generator room - north west wall	Electrical mounting board	1m²	-	Suspect Asbestos	Non-friable	Composite Material	Composite, bitumen, vinyl	Low damage / deterioration	Very Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
652	W033	Internal	Generator room - north west wall	Electrical mounting board	0.5m²	-	Suspect Asbestos	Non-friable	Composite Material	Composite, bitumen, vinyl	Low damage / deterioration	Very Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	Left side board
654	W033	Internal	Ice room - east wall, power socket for ice machine	Electrical mounting board	0.25m²	-	Suspect Asbestos	Non-friable	Composite Material	Composite, bitumen, vinyl	Low damage / deterioration	Very Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
655	W034	External	Windows	Window putty	6m-lin	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
656	W034	External	South side of shack - spare windows	Window putty	4m-lin	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
658	W034	External	Garage - Roof	Corrugated fibre cement panels	24m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
659	W034	External	Garage - Roof apex	Fibre cement ridge capping	6m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
660	W034	External	Garage - West side of garage (garden) - Window	Fibre cement panels	0.5m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
662	W035	External	South west of shack - Wall	Corrugated fibre cement panels	12m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-

Appendix D: Asbestos Register - Table 1

Item No.	Shack/Site	Location	Material Location	Material Description	Extent of Material (m² / m-lin)	Sample Number	Asbestos Type(s)	Friability	Surface Properties	Product Type	Condition	Fibre Release Risk	Disturbance Potential	Recommended Action	Aurora Comments *Senversa Comments*
663	W035	External	South west of shack - Wall	Fibre cement end capping	4m-lin	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
665	W035	External	South east of shack - Wall	Shadow-line fibre cement panels	12m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
666	W035	External	South east of shack - Wall	Fibre cement panels	6m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
667	W035	External	East side of shack - Garage / shed	Corrugated fibre cement panels	12m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
668	W035	External	East side of shack - Garage / shed	Fibre cement end capping	6m-lin	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
669	W036	External	South east of shack - Large garage - Sink unit	Bitumen sound dampener membrane	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
670	W036	External	West side of shack - Dog door	Fibre cement panels	0.75m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
672	W038	External	Entrance canopy area - Table top	Vinyl floor tiles (grey)	0.25m²	A11567	Chrysotile	Non-friable	Composite Material	Composite, bitumen, vinyl	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	Also blue and yellow tiles
675	W038a	External	South east of shack - Garage (south east) - Loose	Fibre cement end capping	2.5m-lin	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
679	W041	External	South side of shack - Wall	Fibre cement panels	2m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
680	W041	External	South side of shack - Alfresco area (south and west walls)	Fibre cement panels	16m²	-	Suspect Asbestos	Friable	Deteriorating asbestos cement	Fibre cement - matrix degraded	High Damage, delamination, debris	High	Unlikely - Occasionally accessed	Remove or Manage as per AMP	Heavily degraded cement matrix
682	W041	External	Windows	Window putty	3m-lin	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
683	W041	External	West side of shack - Ground	Fibre cement soak well	5m²	A11552	Crocidolite Amosite Chrysotile	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
686	W043	Garage	Internal - South wall	Electrical mounting board	0.5m²	-	Suspect Asbestos	Non-friable	Composite Material	Composite, bitumen, vinyl	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
688	W044	External	Entrance area - East side of shack	Disused electrical mounting board	0.5m²	A11554	Chrysotile	Non-friable	Composite Material	Composite, bitumen, vinyl	Low damage / deterioration	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
690	W044	External	West side of shack - Alfresco area - (internal panel) adjacent door	Fibre cement panels	8m²	A11556	Chrysotile	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
693	W044	External	West side of shack - Above window (alfresco area)	Fibre cement panels	0.5m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
694	W045	External	West side of shack - Windows	Window putty	5m-lin	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
697	W046	External	South side of shack - Walls (protruding to west side)	Shadow-line fibre cement panels	12m²	A11561	Amosite Chrysotile	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
698	W046	External	South west corner of shack	Fibre cement corner capping	2m-lin	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
699	W046	External	North west corner of shack	Corrugated fibre cement panels	8m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
707	W050	External	South west of shack - Wall (entrance walkway)	Fibre cement panels	5m²	A11576	Chrysotile	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	Thick panels
708	W050	External	North west of shack - Wall	Fibre cement panels	10m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	Thick panels
709	W050	External	South west of shack - Eaves lining	Fibre cement panels	4m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
710	W050	External	North east of shack - Garage - Wall	Fibre cement panels	5m²	A11578	Crocidolite Chrysotile	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
711	W050	External	North east of shack - Garage - Loose	Fibre cement panels	0.5m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
712	W050	External	Windows	Window putty	3m-lin	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
714	W050	External	South side of shack - Wall	Fibre cement panels	8m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
716	W050	External	South east of shack - Wall	Fibre cement panels	3m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
719	W052	External	East of shack - Fence	Corrugated fibre cement panels	6m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-

Appendix D: Asbestos Register - Table 1

Item No.	Shack/Site	Location	Material Location	Material Description	Extent of Material (m² / m-lin)	Sample Number	Asbestos Type(s)	Friability	Surface Properties	Product Type	Condition	Fibre Release Risk	Disturbance Potential	Recommended Action	Aurora Comments *Senversa Comments*
	W052	External	North-west of shack	Fibre cement debris	80m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Moderate damage / deterioration	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	*ACM buried in dune. Appear to be remains of a structure pushed into dune.*
721	W054	External	Windows	Window putty	3m-lin	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
722	W054	External	North east of shack - Loose	Fibre cement panels	2m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
723	W054	External	South east of shack - Sink unit	Bitumen sound dampener membrane	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
724	W054	External	Alfresco - Entry door - Infill panel	Fibre cement panels	0.5m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
725	W055	External	North side of shack - Entrance door - Infill panel	Fibre cement panels	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
726	W055	External	North, west and south sides of shack - Walls	Shadow-line fibre cement panels	40m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	4m² impacted - sub surface
728	W055	External	Roof	Corrugated fibre cement panels	72m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
729	W055	External	Windows	Window putty	7m-lin	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
731	W055	External	South west of shack - Ground	Soil sample	-	W055	Not analysed	-	-	-	-	-	-	None	DSI planned
732	W056	External	North east of shack - Fence	Corrugated fibre cement panels	17m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	To perimeter of shed
733	W056	External	North east of shack - Fence	Corrugated fibre cement panels	17m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	To perimeter of shed
	W056	External	North east of shack - Ground (buried)	Fibre cement debris	8m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	*ACM sheet and fragments buried and visible in side of dune south of shack.*
734	W056	External	South of shack - Fence	Corrugated fibre cement panels	14m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	To perimeter of shed
735	W056	External	South west of shack - Shed Roof	Corrugated fibre cement panels	16m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
736	W056	External	South west of shack - Shed Lean-to roof	Corrugated fibre cement panels	2m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
737	W056	External	South west of shack - Shed Lean to wall	Corrugated fibre cement panels	2m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
738	W056	External	South west of shack - Shed Walls	Corrugated fibre cement panels	26m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
739	W056	External	South west of shack - South of shed - Loose	Corrugated fibre cement panels	1m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
740	W056	External	South west shack - Shed - Corners	Fibre cement corner capping	6m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	South, south west and north east corners (x3)
741	W057	External	South side of shack - Shuttering	Corrugated fibre cement panels	0.5m²	A11579	Chrysotile	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
742	W057	External	North east of shack - Fence	Corrugated fibre cement panels	7m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
744	W058	External	North west side of shack - Wall	Fibre cement panels	2m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
746	W059	External	North west of shack - Sink unit	Bitumen sound dampener membrane	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
749	W062	External	North east of shack - fence	Corrugated fibre cement panels	30m²	A11583	Amosite Chrysotile	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
750	W062	External	South east of shack - fence	Corrugated fibre cement panels	20m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
751	W062	External	South of shack - loose	Corrugated fibre cement panels	4m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
752	W063	External	South east of shack - top of shed - sink unit	Bitumen sound dampener membrane	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
755	W066	External	South east of shack - sink unit	Bitumen sound dampener membrane	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
756	W066	External	South west of shack - sink unit	Bitumen sound dampener membrane	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-

Appendix D: Asbestos Register - Table 1

Item No.	Shack/Site	Location	Material Location	Material Description	Extent of Material (m^2 / m-lin)	Sample Number	Asbestos Type(s)	Friability	Surface Properties	Product Type	Condition	Fibre Release Risk	Disturbance Potential	Recommended Action	Aurora Comments *Senversa Comments*
758	W067	External	East side of shack - sink unit - spare	Bitumen sound dampener membrane	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
759	W068	External	North of shack - Fence	Corrugated fibre cement panels	10m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
760	W068	External	North of shack - North of fence - Shuttering	Fibre cement shuttering	30cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	2m² impacted - sub surface
761	W068	External	North west of shack - Wall	Fibre cement panels	8m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
762	W068	External	North west of shack - Wall	Fibre cement jointing strips	18m-lin	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
763	W068	External	North west of shack - Wall	Fibre cement end capping	4m-lin	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
764	W068	External	South of shack - Fence	Corrugated fibre cement panels	13m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
766	W069	External	Roof	Corrugated fibre cement panels	60m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
767	W069	External	North east of shack - Wall	Shadow-line fibre cement panels	2m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
768	W069	External	South east of shack - Alfresco area - Fence	Corrugated fibre cement panels	5m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
769	W069	External	North east of shack - Wall	Fibre cement end capping	2m-lin	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
770	W069	External	North east of shack - Shed - Walls	Fibre cement panels	6m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
772	W069	External	North east of shack - Shed - Walls	Shadow-line fibre cement panels	2m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
773	W069	External	North west of shack - Fencing to outhouse	Corrugated fibre cement panels	0.5m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
774	W070	External	East side of shack - Infill panel	Fibre cement panels	1.5m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
777	W070	External	North west of shack - Wall	Shadow-line fibre cement panels	2m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
778	W070	External	North, west and south sides of shack - Infill panel	Fibre cement panels	1.5m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
779	W071	External	Windows	Window putty	12m-lin	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
781	W071	External	South side of shack - Wall	Fibre cement panels	13m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
783	W071	External	North and west of shack - Walls	Fibre cement panels	36m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
788	W072	Internal	Kitchen - sink unit	Bitumen sound dampener membrane	<1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
790	W072	Internal	Kitchen - north west wall	Fibre cement panels	2m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
791	W072	Internal	Battery/ice room - south wall	Fibre cement panels	5m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
793	W072	Internal	Room adjacent shower/ice room - west wall	Electrical mounting board	0.5m²	-	Suspect Asbestos	Non-friable	Composite Material	Composite, bitumen, vinyl	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
794	W072	Internal	South bedroom - north, west and south walls	Fibre cement panels	10m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
796	W072	Internal	Lounge - wood burner	Rope seal	<0.5m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
797	W072	External shed	West wall	Corrugated fibre cement panels	8m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Composite, bitumen, vinyl	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
798	W073	External	North, east and south of shack - Walls	Fibre cement panels	30m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
799	W073	External	North, east and south of shack - Walls	Fibre cement jointing strips	24m-lin	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
800	W073	External	North and south gable ends of shack	Fibre cement end capping	6m-lin	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-

Appendix D: Asbestos Register - Table 1

Item No.	Shack/Site	Location	Material Location	Material Description	Extent of Material (m² / m-lin)	Sample Number	Asbestos Type(s)	Friability	Surface Properties	Product Type	Condition	Fibre Release Risk	Disturbance Potential	Recommended Action	Aurora Comments *Senversa Comments*
801	W073	External	North and south gable ends of shack	Shadow-line fibre cement panels	2m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
802	W073	External	North east of shack - North east corner	Fibre cement end capping	2m-lin	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
803	W073	External	Windows	Window putty	6m-lin	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
804	W073	External	North of shack - Wall to shed	Shadow-line fibre cement panels	3m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
805	W073	External	North of shack - shed - east wall	Fibre cement panels	2.5m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
806	W073	External	Roof	Corrugated fibre cement panels	36m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
807	W073	External	South of shack - South and west walls	Shadow-line fibre cement panels	22m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
808	W073	External	South of shack - North shed wall	Shadow-line fibre cement panels	2m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
809	W073	External	South of shack - North shed wall	Fibre cement panels	2m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
810	W073	External	South of shack - North shed wall	Fibre cement jointing strips	5m-lin	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
811	W073	External	South of shack - West of shed - Braemar unit	Fibre cement pipe	1m-lin	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
812	W073	External	West of shack - Gutter to water tank	Gutter deposit sample	-	A11586	Crocidolite	FA	Asbestos cement fragments	Fibre cement roof deposits	High Damage, delamination, debris	High	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
816	W073	External	West of shack - Outhouse (top of hill) - North wall	Fibre cement panels	2m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
817	W073	External	West of shack - Outhouse (top of hill) - North wall	Fibre cement jointing strips	3m-lin	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
818	W073	External	North east of shack - Ground	Soil sample	-	W073	Not analysed	-	-	-	-	-	-	None	DSI planned
819	W074	External	South side of shack - South wall	Fibre cement panels	0.25²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
820	W074	External	South side of shack - South wall - Loose (next to shed)	Fibre cement panels	6m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
822	W075	External	East side of shack - sink unit	Bitumen sound dampener membrane	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
824	W076	External	North and east of shack - Fence	Corrugated fibre cement panels	26m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
825	W076	External	Windows	Window putty	7m-lin	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
826	W076	External	South west of shack - Walls	Fibre cement panels	18m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
827	W076	Internal	Shower room - west wall	Fibre cement panels	5m²	A11513	Chrysotile	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
828	W076	Internal	Kitchen - sink unit	Bitumen sound dampener membrane	<1m²	A11514	Chrysotile	Non-friable	Composite Material	Composite, bitumen, vinyl	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
830	W076	Internal	Lounge - wood burner	Rope seal	<0.5m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
831	W076	Internal	Master bedroom - ceiling and infill panels	Fibre cement panels	25m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
833	W078	External	North west of shack - Fence	Corrugated fibre cement panels	18m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
834	W078	External	North west of shack - Ground	Corrugated fibre cement debris	2m²	W4_W78_006	Chrysotile & Amosite	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	*ACM sheeting.*
838	W079	External	South side of shack - Entry wall	Fibre cement panels	4m²	A11587	Chrysotile	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
840	W081	External	East of shack - Fence	Fibre cement panels	4m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
842	W081	External	Windows	Window putty	10m-lin	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-

Appendix D: Asbestos Register - Table 1

Item No.	Shack/Site	Location	Material Location	Material Description	Extent of Material (m² / m-lin)	Sample Number	Asbestos Type(s)	Friability	Surface Properties	Product Type	Condition	Fibre Release Risk	Disturbance Potential	Recommended Action	Aurora Comments *Senversa Comments*
843	W081	External	East of shack - Sink unit	Bitumen sound dampener membrane	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
844	W082	External	South of shed (W82a) - Sink unit	Bitumen sound dampener membrane	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
846	W084	External	South of shack - Sink unit	Bitumen sound dampener membrane	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
850	W084	External	West of shack - Fence	Corrugated fibre cement panels	10m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
854	W085	External	North of shack - Sink unit	Bitumen sound dampener membrane	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
858	W088	External	All walls of shack	Corrugated fibre cement panels	60m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
859	W088	External	South side of shack - Ground	Soil sample	-	W088	Not analysed	-	-	-	-	-	-	None	DSI planned
860	W088	External	Roof	Corrugated fibre cement panels	40m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	Drainage to ground
864	W092 - former shack site	External	South - 30 49 181 East - 115 11 588	Corrugated fibre cement fence panels	6m²	W4_W92_018	Chrysotile & Amosite	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	*Three ACM sheeting panels upright near tank.*
870	W096	External	North side of shack - Joint shed - Loose	Fibre cement pipe	1m-lin	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
877	W099	External	North side of shack - Entry canopy area - West wall	Fibre cement panels	5m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	Matrix deteriorated
878	W099	External	North side of shack - Entry canopy area - Door infill panel	Fibre cement panels	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
879	W099	External	North side of shack - Entry canopy area - South wall	Shadow-line fibre cement panels	4m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
880	W099	External	Windows	Window putty	6m-lin	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
882	W099	External	East side of shack - Wall	Shadow-line fibre cement panels	14m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
883	W099	External	East side of shack - Ground	Corrugated fibre cement panels	2m²	W4_W99_011	Chrysotile & Amosite	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	*ACM sheeting south western corner of shack.*
884	W099	External	East side of shack - South east corner	Fibre cement corner capping	2m-lin	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
885	W099	External	Roof	Corrugated fibre cement panels	32m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	Roof run-off to tank and ground. Suspect asbestos impacts to both
886	W099	External	East side of shack - Gutter	Gutter deposit sample	-	A11594	Chrysotile	FA	Asbestos cement fragments	Fibre cement roof deposits	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	Roof run-off to tank and ground. Suspect asbestos impacts to both
887	W099	External	North of shack - Fence	Corrugated fibre cement panels	10m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
888	W099	External	West of shack - Ground	Soil sample	-	W099	Not analysed	-	-	-	-	-	-	None	DSI planned
890	W100	External	All walls of shack	Shadow-line fibre cement panels	70m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
891	W100	External	East side of shack - Deck shuttering	Shadow-line fibre cement panels	7m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
892	W100	External	South east of shack - Deck area	Corrugated fibre cement panels	2.5m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
893	W100	External	Windows	Window putty	7m-lin	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
896	W100	External	South of shack - Shed walls	Corrugated fibre cement panels	20cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
898	W100	External	South east of shack - South east shed - Walls	Shadow-line fibre cement panels	30m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
899	W100	External	South east of shack - South east shed - Roof	Corrugated fibre cement panels	32m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
901	W100	External	South east of shack - South east shed - North of shed - Fence	Corrugated fibre cement panels	3m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
902	W101	External	East side of shack - Under cover area - Below shack	Corrugated fibre cement panels	2m-lin	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-

Appendix D: Asbestos Register - Table 1

Item No.	Shack/Site	Location	Material Location	Material Description	Extent of Material (m² / m-lin)	Sample Number	Asbestos Type(s)	Friability	Surface Properties	Product Type	Condition	Fibre Release Risk	Disturbance Potential	Recommended Action	Aurora Comments *Senversa Comments*
908	W101	External	West of shack - Roof	Fibre cement end capping	6m-lin	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
909	W102	External	North west of shack - Fence	Corrugated fibre cement panels	6m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
910	W102	External	South side of shack - Sink unit	Bitumen sound dampener membrane	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
911	W102	External	South side of shack - Fence	Corrugated fibre cement panels	26m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
914	W103	External	South side of shack - Loose	Fibre cement panels	1.5m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
916	W103	External	North west of shack - Fence	Corrugated fibre cement panels	20m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
917	W103	External	Windows	Window putty	7m-lin	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
920	W103	External	North of shack - Fence	Corrugated fibre cement panels	8m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
921	W103	External	North side of shack - Under cover area - Infill panel	Fibre cement panels	2m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
922	W103	External	East of shack - Under cover area - Infill panel	Fibre cement panels	3.5m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
923	W103	External	East of shack - under cover area - Loose	Corrugated fibre cement panels	8m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
927	W103	External	Entrance gate - Fence	Corrugated fibre cement panels	4m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
928	W103	External	Entrance gate - North east of gate - Loose	Corrugated fibre cement panels	3m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
929	W104	External	North side of shack - Entrance door - Infill panel	Fibre cement panels	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
930	W104	External	South east side of shack - Loose	Fibre cement panels	1.5m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
933	W105	External	South west of shack - South of shed - Loose	Fibre cement panels	2m-lin	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
934	W106	External	Windows	Window putty	15m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
935	W106	External	South of shack - Seating area - Wood burner	Rope Seal	1.2m-lin	A11603	Chrysotile	Friable	Unsealed thermal insulation	LDB, paper, textiles	Good condition, no damage	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
937	W107	External	West of shack - Side gate (barn door)	Fibre cement panels	2m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
938	W107	External	South of shack - Sink unit	Bitumen sound dampener membrane	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
939	W107	External	South east of shack - Shed - Walls	Fibre cement panels	20m²	A11605	Amosite Chrysotile	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
940	W107	External	South east of shack - Shed - Roof	Corrugated fibre cement panels	28m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
941	W107	External	South east of shack - Shed - East & west gable end	Corrugated fibre cement panels	4m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
942	W107	External	South east of shack - Shed - Corner of shed	Fibre cement corner capping	8m-lin	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	Water going to ground & gutter
943	W107	External	South east of shack - Shed - Roof	Fibre cement end capping	8m-lin	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
944	W107	External	South east of shack - Shed - Windows	Window putty	2m-lin	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
946	W107	External	South east of shack - Shed - (low level) Infill panel	Fibre cement panels	2m²	-	Suspect Asbestos	Friable	Deteriorating asbestos cement	Fibre cement - matrix degraded	High Damage, delamination, debris	High	Unlikely - Occasionally accessed	Remove or Manage as per AMP	Heavily degraded matrix
949	W110	External	All sides of shack - Walls	Fibre cement panels	60m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
950	W110	External	All sides of shack - Walls	Fibre cement jointing strips	30m-lin	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
951	W110	External	Roof	Corrugated fibre cement panels	100m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	Roof sheets appear to have been installed degraded side down

Appendix D: Asbestos Register - Table 1

Item No.	Shack/Site	Location	Material Location	Material Description	Extent of Material (m² / m-lin)	Sample Number	Asbestos Type(s)	Friability	Surface Properties	Product Type	Condition	Fibre Release Risk	Disturbance Potential	Recommended Action	Aurora Comments *Senversa Comments*
952	W110	External	Roof	Fibre cement end capping	24m-lin	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
953	W110	External	West side of shack - Fence	Corrugated fibre cement panels	20m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
955	W110	External	South and south west of shack - Fence	Corrugated fibre cement panels	28m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
956	W110	External	South and south west of shack - Loose	Fibre cement panels	0.5m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
959	W110	External	South of shack - Ground	Fibre cement pipe	2m-lin	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
960	W110	External	East side of shack - Shed - Loose	Corrugated fibre cement panels	10m²	W9_W110_005	Chrysotile, Amosite & Crocidolite	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	*ACM sheeting.*
961	W110	External	East side of shack - North side of shed - Infill panels	Fibre cement panels	1.5m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
962	W110	External	East of shack - East of shed - Fence	Corrugated fibre cement panels	4m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
963	W110	External	West side of shack - Ground	Soil sample	-	W110	No Asbestos Detected	-	-	-	-	-	-	None	At DOH reporting limit
964	W110	External	Roof - Gutters	Fibre cement gutters	12m-lin	A11601	Crocidolite Chrysotile	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
966	W111	External	Perimeter fencing - South east	Corrugated fibre cement panels	4m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
967	W111	External	Perimeter fencing - Remainder of fence	Corrugated fibre cement panels	30m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
969	W111	External	All walls of shack	Fibre cement panels	110m²	A11598	Chrysotile	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
970	W111	External	All walls of shack (low level)	Corrugated fibre cement panels	40m-lin	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
971	W111	External	All walls of shack	Fibre cement jointing strips	120m-lin	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
972	W111	External	Corner joints of shack	Fibre cement corner capping	30m-lin	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
973	W111	External	Eaves lining	Fibre cement panels	25m-lin	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
974	W111	External	South west of shack - Loose / ground	Fibre cement panels	1m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
976	W112	External	South west of shack - Entrance - Infill panels	Fibre cement panels	4m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
977	W112	External	Windows	Window putty	3m-lin	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
978	W112	External	South side of shack - Shuttering to seating area	Corrugated fibre cement panels	2m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
983	W113	External	North of shack - Outhouse	Fibre cement panels	4m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
984	W113	External	North of shack - Outhouse	Shadow-line fibre cement panels	4m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
986	W114	External	West side of shack - Sink unit	Bitumen sound dampener membrane	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
990	W115	External	East of shack - Entry door to garage - Infill panel	Fibre cement panels	3m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
991	W116	External	North side of shack - Fence	Corrugated fibre cement panels	6m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
992	W116	External	North side of shack - North side of fence - Loose	Corrugated fibre cement panels	4m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
993	W116	External	South side of shack - Sink unit	Bitumen sound dampener membrane	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
994	W116	External	South side of shack - Generators - Exhaust pipe	Fibre cement pipe	1m-lin	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	2 generators
999	W119	External	South of shack - Water tank base	Fibre cement panels	6m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-

Appendix D: Asbestos Register - Table 1

Item No.	Shack/Site	Location	Material Location	Material Description	Extent of Material (m² / m-lin)	Sample Number	Asbestos Type(s)	Friability	Surface Properties	Product Type	Condition	Fibre Release Risk	Disturbance Potential	Recommended Action	Aurora Comments *Senversa Comments*
1003	W122	External	Windows	Window putty	4m-lin	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1005	W123	External	East of shack - (High level) Infill panel	Fibre cement panels	3m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1009	W124 - Under Parks & Wildlife control	External	Windows	Window putty	5m-lin	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1010	W124 - Under Parks & Wildlife control	Internal	Floor	Patterned vinyl - paper backed	18m²	A11631	Chrysotile	Friable	Unsealed LDB, paper, gaskets	Thermal insulation materials (not textiles)	High Damage, delamination, debris	Moderate	Almost Certain - Internal residency	Remove or Manage as per AMP	Chrysotile is in the paper backing
1011	W124 - Under Parks & Wildlife control	Internal	Kitchen area	Bitumen sound dampener membrane	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1012	W125-6	External	Windows	Window putty	40m-lin	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1015	W128	External	South side of shack - Loose	Fibre cement panels	5m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1016	W128	External	West side of shack - Fence	Corrugated fibre cement panels	10m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
1017	W128	External	West side of shack - Outhouse roof	Corrugated fibre cement panels	2m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
1018	W128	External	West side of alfresco area - Fence	Corrugated fibre cement panels	3m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
1019	W128	External	Sea container - Fork lift holes, bottom	Fibre cement infill panels	0.5m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1021	W129	External	West side of shack - Fence	Corrugated fibre cement panels	18m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
1022	W130	External	South side of shack - Sink unit	Bitumen sound dampener membrane	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1023	W130	External	West and north side of shack - Fence	Corrugated fibre cement panels	100m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	Scattered (where fence is broken)
1025	W131	External	South of shack - sink unit	Bitumen sound dampener membrane	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1026	W132	External	East side of shack - Sink unit	Bitumen sound dampener membrane	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1028	W133	External	Windows	Window putty	4m-lin	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1029	W133	External	North side of shack - Ground	Asbestos cement (Tilux) debris	1.5m²	A11608	Chrysotile	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	16m² impacted - sub surface
1030	W133	External	North side of shack - Water tank base - Packers	Asbestos cement (Tilux) debris / panels	1m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	4m² impacted - surface
1031	W134	External	West wall - Entrance	Fibre cement panels	14m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1033	W136	External	West side of shack - Wall	Corrugated fibre cement panels	12m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1034	W136	External	West side of shack - Loose	Corrugated fibre cement panels	2m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1035	W136	External	East side of shack - Wall	Corrugated fibre cement panels	24m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1036	W136	External	East side of shack - Roof	Corrugated fibre cement panels	40m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1037	W136	External	South east of shack - Corner of shack	Fibre cement corner capping	2m-lin	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1038	W136	External	South side of shack - Wall	Corrugated fibre cement panels	24m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1040	W137	External	North of shack - Fence	Corrugated fibre cement panels	20m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1042	W138a	External	East side of shack - Fence	Corrugated fibre cement panels	18m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1043	W138a	External	South side of outside seating area - Fence	Corrugated fibre cement debris	1m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	6m² impacted - sub surface
1047	W140	External	East of shack - Loose	Corrugated fibre cement panels	14m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-

Appendix D: Asbestos Register - Table 1

Item No.	Shack/Site	Location	Material Location	Material Description	Extent of Material (m² / m-lin)	Sample Number	Asbestos Type(s)	Friability	Surface Properties	Product Type	Condition	Fibre Release Risk	Disturbance Potential	Recommended Action	Aurora Comments *Senversa Comments*
1048	W140	External	East of shack - Fence	Corrugated fibre cement panels	12m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
1050	W140	External	East of shack - Deck panelling	Corrugated fibre cement panels	3m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Likely - Routinely accessed	Remove or Manage as per AMP	-
1052	W141	External	North of shack - Small fence	Corrugated fibre cement panels	1m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1053	W141	External	South side of west shack - South side of look out - Wall	Fibre cement panels	1m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1054	W142	External	West of shack - Entrance wall	Shadow-line fibre cement panels	2m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	Also to east side - 10m²
1055	W142	External	South side of shack - Roof	Corrugated fibre cement panels	20m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1056	W142	External	South (connected shack) - Roof	Corrugated fibre cement panels	32m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1057	W142	External	South and east of south shack - Wall	Shadow-line fibre cement panels	40m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1058	W142	External	South of shack - Wall	Shadow-line fibre cement panels	2m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
1060	W142	External	West of shed - Ground	Corrugated fibre cement panels	3m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	*ACM sheet partially buried in dune west of shack.*
1062	W142	External	North side of shack - Fence	Corrugated fibre cement panels	5.5m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
	W142	External	North-west of shack	Fibre cement debris	5m²	W15_W142_23	Chrysotile	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	*Scattered ACM fragments, some partially buried to the north west of shack.*
1063	W143	External	South side of shack - Windows	Window putty	3m-lin	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1065	W145-6	External	Windows	Window putty	8m-lin	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1067	W145-6	External	All external walls	Low density board	70m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1069	W147	External	West side of shack - Eaves lining	Fibre cement panels	2.5m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1071	W149a	External	South side of shack - Ground - Loose	Fibre cement panels	2m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	2m² impacted - surface
1072	W149a	External	Shack walls	Fibre cement panels	32m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1073	W149a	External	West side of shack - Low level - Infill panel	Fibre cement panels	2m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
1075	W150	External	East of shack - Sink unit	Bitumen sound dampener membrane	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1076	W150	External	North side of shack - High level - Infill panel	Fibre cement panels	2m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1077	W150	Internal - assessed externally	North side of shack - Wall panel (inside)	Fibre cement panels	*4m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	Unable to access internal, observed through hole in external cladding
1079	W152	External	All external walls	Corrugated fibre cement panels	170m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
1080	W152	External	Roof	Corrugated fibre cement panels	80m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	Beneath pressed metal sheets
1082	W152	External	Corners of shack	Fibre cement end capping	20m-lin	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1083	W152	External	Gutters	Fibre cement gutters	16m-lin	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1084	W152	External	South west side of shack - Infill panel	Fibre cement panels	2m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1085	W152	External	South east side of shack - Below water tank stand	Soil sample	-	W152	Not analysed	-	-	-	-	-	-	None	DSI planned
1087	W154	External	Windows	Window putty	3m-lin	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1091	W156	External	South side of shack - Sink unit	Bitumen sound dampener membrane	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-

Appendix D: Asbestos Register - Table 1

Item No.	Shack/Site	Location	Material Location	Material Description	Extent of Material (m² / m-lin)	Sample Number	Asbestos Type(s)	Friability	Surface Properties	Product Type	Condition	Fibre Release Risk	Disturbance Potential	Recommended Action	Aurora Comments *Senversa Comments*
1092	W157	External	West gable end of shed	Fibre cement panels	1m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1094	W157	External	North side of shed - Wall	Fibre cement panels	12m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1096	W157	External	South side of shack - Fence	Corrugated fibre cement panels	6m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
1099	W160	External	North west of shack - Fence	Corrugated fibre cement panels	2m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	1m² impacted - sub surface
1100	W160	External	East side of shack - Small shed - Walls and roof	Corrugated fibre cement panels	6m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
	W161	External	South of shack - Ground	Corrugated fibre cement panels	16m²	W16_W161_004	Chrysotile & Amosite	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	*Stacked ACM sheets.*
1103	W162	External	All walls of shack	Corrugated fibre cement panels	50m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
1104	W162	External	Roof	Corrugated fibre cement panels	40m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1105	W162	External	Shed to north side of shack - Walls	Corrugated fibre cement panels	30m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1106	W162	External	West side of shack - Small fence	Corrugated fibre cement panels	3m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1107	W162	External	North east side of shack - Ground	Soil sample	-	W162	Not analysed	-	-	-	-	-	-	None	DSI planned
1108	W162	External	North side of shack - Generator	Fibre cement pipe	0.5m-lin	A11547	Amosite Chrysotile	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	Fibre cement pipe (exhaust)
1121	W176	External	West side of shack - BBQ	Fibre cement panels	0.5m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1122	W176	External	West side of shack - below BBQ	Corrugated fibre cement panels	2m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
1123	W176	External	West side of shack - BBQ	Fibre cement panels	1.5m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1124	W176	External	North side of shack - sink unit	Bitumen sound dampener membrane	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1125	W177	External	North side of shack - sink unit	Bitumen sound dampener membrane	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1126	W177	External	Windows	Window putty	3m-lin	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1127	W177	External	South east of shack - behind metal shed	Fibre cement shuttering	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1128	W177	External	East of shack - behind metal shed	Fibre cement shuttering	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1130	W179	External	North of seating area - Fire pit - Flue packer	Fibre cement panels	30cm²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1131	W179	External	Far west shack - Roof	Corrugated fibre cement panels	50m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	Roof run-off to tanks. Suspect asbestos impacts
1132	W179	External	Far west shack - North, east and west walls	Corrugated fibre cement panels	11m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1135	W179	External	Middle shack (bedrooms) - gable ends	Fibre cement panels	3m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1136	W179	External	East shack - Toilet - adjacent soil	Soil sample	-	W179	Not analysed	-	-	-	-	-	-	None	DSI planned
1144	W187	External	North side of shack - Door - Infill panel	Fibre cement panels	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1146	W187	External	South of shack - Ground / loose	Fibre cement panels	2m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1148	W189	External	South east of shack - Outhouse - Loose	Fibre cement panels	2m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1150	W190	External	East of shack - Sink unit	Bitumen sound dampener membrane	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1155	W195	External	South east of shack - behind metal shed - fence	Corrugated fibre cement panels	3m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	Associated debris

Appendix D: Asbestos Register - Table 1

Item No.	Shack/Site	Location	Material Location	Material Description	Extent of Material (m² / m-lin)	Sample Number	Asbestos Type(s)	Friability	Surface Properties	Product Type	Condition	Fibre Release Risk	Disturbance Potential	Recommended Action	Aurora Comments *Senversa Comments*
1158	W196	External	South of shack - Fence	Corrugated fibre cement panels	2m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
1160	W196	External	East of shack - Ground (garden bed shuttering)	Corrugated fibre cement debris	3m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	6m² impacted - sub surface
1162	W197	External	North west of shack - sink unit	Bitumen sound dampener membrane	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1163	W197	External	North east, north west and west - flower bed shuttering/fencing	Corrugated fibre cement panels	16m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1164	W197	External	Metal shed west of shack - Shuttering	Corrugated fibre cement panels	10m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	Shuttering around shed
1165	W197	External	Far west of shack - metal shed - Loose / stored	Fibre cement panels	3m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1166	W198	External	North east side of shack - fence of alfresco area	Corrugated fibre cement panels	12m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1170	W199	External	West side of shack - West, North and South walls	Corrugated fibre cement panels	55m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
1173	W202	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-
	W207	External	North of shack - Ground	Fibre cement debris	40m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	*ACM scattered near the north eastern corner of shack.*
1181	W208	External	North side of shack - stove/burner, loose	Fibre cement panels	0.5m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1182	W208	External	West side of shack - Loose	Fibre cement panels	7m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1185	W211	External	West side of shack - Sink unit	Bitumen sound dampener membrane	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1190	W216 - former shack site	External	South - 30 48 656 East - 115 11 547	Corrugated fibre cement panels	20m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	40m² impacted - sub surface
1191	W216 - former shack site	External	South - 30 48 656 East - 115 11 547	Fibre cement gutters	30m-lin	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	40m² impacted - sub surface
1192	W216 - former shack site	External	South - 30 48 656 East - 115 11 547	Fibre cement panels	15m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	40m² impacted - sub surface
1193	W216 - former shack site	External	South - 30 48 656 East - 115 11 547	Fibre cement debris	7m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	40m² impacted - sub surface
1194	W217	External	Windows	Window putty	4m-lin	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1195	W217	External - east side of shack	Ground	Corrugated fibre cement panels	0.5m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
1198	W220	External	North west of shack - on floor	Loose/stored corrugated fibre cement panels	4.5m²	-	Suspect Asbestos	Friable	Deteriorating asbestos cement	Fibre cement - matrix degraded	High Damage, delamination, debris	High	Unlikely - Occasionally accessed	Remove or Manage as per AMP	Heavily degraded matrix
1199	W220	External	West of shack - Fence	Corrugated fibre cement panels	11m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
1201	W224	External	East side of shack - Sink unit	Bitumen sound dampener membrane	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1210	W233	External	North side of shack - Sink unit	Bitumen sound dampener membrane	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1211	W233	External	East side of shack - North and east walls of garage	Shadow-line fibre cement panels	30m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1212	W233	External	East side of shack - Garage roof	Corrugated fibre cement panels	32m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1214	W234	External	North side of shack - Sink unit	Bitumen sound dampener membrane	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1215	W235	External	North west side of shack - Water tank structure	Fibre cement panels	3m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1219	W237	External	North east side of shack - Sink unit	Bitumen sound dampener membrane	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1223	W240	External	South side of shack - Sink unit	Bitumen sound dampener membrane	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1225	W241	External	North east side of shack - Sink unit	Bitumen sound dampener membrane	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-

Appendix D: Asbestos Register - Table 1

Item No.	Shack/Site	Location	Material Location	Material Description	Extent of Material (m² / m-lin)	Sample Number	Asbestos Type(s)	Friability	Surface Properties	Product Type	Condition	Fibre Release Risk	Disturbance Potential	Recommended Action	Aurora Comments *Senversa Comments*
1229	W245	External	North east side of shack	Corrugated fibre cement panels	13m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
1230	W245	External	North gable end of shack	Fibre cement panels	6m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1232	W245	External	West side of shack - high level above window	Fibre cement panels	4m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1236	W249	External	South side of shack - Fence	Corrugated fibre cement panels	4m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
1238	W251	External	South east of shack - Loose	Fibre cement panels	2m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
1239	W251	External	North east of shack - Fence	Corrugated fibre cement panels	7m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1241	W253	External	East side of shack - Walls	Fibre cement panels	23m²	A6891	Amosite Chrysotile	Friable	Deteriorating asbestos cement	Fibre cement - matrix degraded	High Damage, delamination, debris	High	Likely - Routinely accessed	Remove or Manage as per AMP	Heavily degraded matrix
1242	W253	External	East side of shack - Walls	Fibre cement panels	3m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	Matrix deteriorated
1243	W253	External	North side of shack - Loose	Fibre cement panels	8m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1244	W253	External	North side of shack - Loose	Fibre cement panels	2.5m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1245	W253	External	West side of shack - Fence	Corrugated fibre cement panels	13m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1246	W253	External	West side of shack - Walls	Corrugated fibre cement panels	20m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1247	W253	External	Windows	Window putty	4m-lin	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1248	W253	External	East side of shack - shed	Corrugated fibre cement panels	7m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1249	W253	External	West side of shack - inside shed	Corrugated fibre cement panels	4m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1250	W253	External	North side of shack - Ground	Soil sample	-	W253	Amosite Chrysotile	AF	Asbestos cement fragments	Asbestos cement in soil	High Damage, delamination, debris	Moderate	Likely - Routinely accessed	Remove or Manage as per AMP	At DOH reporting limit
1253	W254	External	West side of shack - Under decking	Corrugated fibre cement panels	10m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1255	W255	External	North east side of shack - Infill panel above window	Fibre cement panels	2m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1257	W256	External	Windows	Window putty	3m-lin	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1260	W259	External	North of shack - Sink unit	Bitumen sound dampener membrane	10cm²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1262	W260	External	North east of shack - North east wall	Fibre cement panels	28m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1263	W260	External	South east of shack - Tank plinth	Fibre cement panels	3.5m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1264	W260	External	North east of shack - Fence	Corrugated fibre cement panels	6m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
1268	W262	External	Windows	Window putty	0.2m-lin	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1270	W263	External	Rear of shack - Ground - Sink unit	Bitumen sound dampener membrane	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1273	W264	External	North side of shack - Sink unit	Bitumen sound dampener membrane	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1274	W264	External	North east side of shack - Shed - Ironing board	Thermal Insulation pad	60cm²	A11609	Chrysotile	Friable	Unsealed thermal insulation	Thermal insulation materials (not textiles)	High Damage, delamination, debris	High	Likely - Routinely accessed	Remove or Manage as per AMP	-
1275	W265	External	Roof	Corrugated fibre cement panels	32m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	Roof run-off to tank and ground. Suspect asbestos impacts to both
1276	W265	External	West, south and east of shack - Walls	Fibre cement panels	34m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1277	W265	External	South of shack - gable end	Fibre cement panels	4m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-

Appendix D: Asbestos Register - Table 1

Item No.	Shack/Site	Location	Material Location	Material Description	Extent of Material (m² / m-lin)	Sample Number	Asbestos Type(s)	Friability	Surface Properties	Product Type	Condition	Fibre Release Risk	Disturbance Potential	Recommended Action	Aurora Comments *Senversa Comments*
1278	W265	External	South of shack - Roof	Fibre cement end capping	4m-lin	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1279	W265	External	East of shack - Sink unit	Bitumen sound dampener membrane	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1280	W265	External	East of shack - (High level) Infill panel	Fibre cement panels	5m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1281	W265	External	South east corner of shack	Fibre cement corner capping	2.5m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1282	W265	External	North side of shack - Ground (gutter run off)	Soil sample	-	W265	Not analysed	-	-	-	-	-	-	None	DSI planned
1283	W266	External	South side of shack - sink unit	Bitumen sound dampener membrane	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1284	W266	External	South side of shack - fence	Corrugated fibre cement panels	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1285	W266	External	South side of shack - fence	Corrugated fibre cement panels	10m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
1291	W272	External	East outhouse - east of shack	Corrugated fibre cement panels	10m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1292	W272	External	Adjacent patio area	Corrugated fibre cement panels	10m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1293	W272	External	South side of shack	Corrugated fibre cement panels	1m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1295	W274	External	North east of shack - between W274A/W274B	Corrugated fibre cement panels	4.5m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1300	W279	External	North west of shack - Fence	Corrugated fibre cement panels	5m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
1303	W281	External	North side of shack - Braemar boiler unit	Millboard gasket	0.25m²	A11548	Chrysotile	Friable	Unsealed LDB, paper, gaskets	LDB, paper, textiles	Moderate damage / deterioration	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1304	W282	External	East side of shack - Windows	Window putty	2m-lin	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1306	W284	External	South east side of shack - Alfresco fence	Shadow-line fibre cement panels	17m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
1308	W284	External	South east of shack - Infill panels to alfresco area	Fibre cement panels	10m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1310	W284	External	West of shack - Fence	Shadow-line fibre cement panels	2m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1312	W284	External	South east of shack - Infill panels to alfresco area - Below windows	Fibre cement panels	10m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1314	W285	External	South east of shack - Decking packer	Fibre cement panels	50cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1316	W286	External	East side of shack - Sink unit	Bitumen sound dampener membrane	2m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1317	W286	External	Windows	Window putty	3m-lin	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1318	W287	External	West side of shack - Fence	Corrugated fibre cement panels	46m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1319	W287	External	South west side of shack - Fence	Corrugated fibre cement panels	6m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1320	W287	External	West side of shack - Loose	Corrugated fibre cement panels	2m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1321	W288	External	South-west side of shack.	Corrugated fibre cement panels	2m²	W8_W288_014	Chrysotile & Amosite	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	*ACM sheet partially buried.*
1322	W289	External	North side of shack - Sink unit	Bitumen sound dampener membrane	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1323	W289	External	North side of shack - Fence (north east entrance)	Corrugated fibre cement panels	7m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1328	W294	External	Windows	Window putty	7m-lin	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1329	W295	External	South of shack - Shed - Walls & roof	Fibre cement panels (insulated)	32m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-

Appendix D: Asbestos Register - Table 1

Item No.	Shack/Site	Location	Material Location	Material Description	Extent of Material (m² / m-lin)	Sample Number	Asbestos Type(s)	Friability	Surface Properties	Product Type	Condition	Fibre Release Risk	Disturbance Potential	Recommended Action	Aurora Comments *Senversa Comments*
1335	W298 - Under Parks & Wildlife control	Internal	Shower room - cubicle walls and shower splashback	Fibre cement panels	8.5²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1336	W298 - Under Parks & Wildlife control	Internal	Shower room - top of boiler unit - Loose	Fibre cement panels	1m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1337	W298 - Under Parks & Wildlife control	Internal	Kitchen - cooker side panel	Fibre cement panels	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1342	W301	External	East side of shack - Patio area - Infill panels	Fibre cement panels	2m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1343	W301	External	East side of shack - Patio area - loose panels	Fibre cement panels	0.5m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1345	W303	External	North east of shack - Patio area - Sink unit	Bitumen sound dampener membrane	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1346	W304 - Under Parks & Wildlife control	External	North side of shack - Fence	Corrugated fibre cement panels	15m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
1348	W304 - Under Parks & Wildlife control	External	East of shack - East of patio - Fence	Corrugated fibre cement panels	1m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1349	W304 - Under Parks & Wildlife control	External	East of shack - East of fence - Garden bed shuttering	Corrugated fibre cement panels	1m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1350	W304 - Under Parks & Wildlife control	External	North east of shack - Hill - Ground	Corrugated fibre cement panels	11m²	W10_W304_22	No Asbestos Detected	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	*Remains outstanding due to varied nature of fragments observed across surface and large scale area of scattered fragments.*
1351	W304 - Under Parks & Wildlife control	Internal	Shower room - Cubicle walls	Fibre cement panels	3m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1353	W305	External	South east of shack - Loose / to timbers of garage	Fibre cement panels	1.5m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1355	W305	External	North side of shack - North of fence - Ground	Fibre cement debris	20m²	W10_W305_21	No Asbestos Detected	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Sample/analyse or Manage as per AMP	*Remains outstanding due to varied nature of fragments observed across surface and large scale area of scattered fragments.*
1356	W306	External	North east side of shack - disused sink unit	Bitumen sound dampener membrane	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1357	W307	External	East side of shack - Below windows	Corrugated fibre cement panels	5m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1358	W308	External	East, south and west side of shack - fence	Corrugated fibre cement panels	40m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
1360	W309	External	North west of shack - Sink unit	Bitumen sound dampener membrane	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1361	W310	External	North side of shack - Ground - Loose	Corrugated fibre cement panels	2m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1366	W313	External	East side - surrounding heater	Corrugated fibre cement panels	13m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1367	W313	External	East side - loose on table	Fibre cement panels	4.5m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1369	W313	External	South east of shack - ground	Fibre cement pipe	3m-lin	A11537	Amosite Chrysotile	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1370	W313	External	West of shack - ground	Fibre cement pipe	3m-lin	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1371	W313	External	West side - lean-to shack	Corrugated fibre cement panels	6m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1372	W313	External	West side - lean-to shack	Fibre cement debris	1.5m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	Impacted area approx - 6m²
1374	W313	External	Wall panels	Bitumen adhesive layer under panels	70m²	A11538	Chrysotile	Non-friable	Composite Material	Composite, bitumen, vinyl	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	Under blue panels
1377	W316	External	East side of shack - bottom of caravan/donga structure	Fibre cement panels	2m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1379	W318	External	South east of shack - north wall	Fibre cement panels	16m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1382	W320	External	East side of shack - Wall	Fibre cement panels	2m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1383	W321	External	West of main shack - small shack - Sink unit	Bitumen sound dampener membrane	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	Debris below sink - 4m² impacted - surface
1384	W322	External	East side of shack - Old wood burner	Rope seal	1m-lin	A11539	Chrysotile	Friable	Unsealed thermal insulation	LDB, paper, textiles	Low damage / deterioration	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	-

Appendix D: Asbestos Register - Table 1

Item No.	Shack/Site	Location	Material Location	Material Description	Extent of Material (m^2 / m-lin)	Sample Number	Asbestos Type(s)	Friability	Surface Properties	Product Type	Condition	Fibre Release Risk	Disturbance Potential	Recommended Action	Aurora Comments *Senversa Comments*
1385	W322	External	East side of shack - Generator shed - West/south sides	Corrugated fibre cement panels	5m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1386	W322	External - under cover	North west area of shack - adjacent car port	Bitumen sound dampener membrane	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1387	W323	External	East side of shack - Fence	Corrugated fibre cement panels	13m-lin	-	Suspect Asbestos	Friable	Deteriorating asbestos cement	Fibre cement - matrix degraded	High Damage, delamination, debris	High	Likely - Routinely accessed	Remove or Manage as per AMP	Heavily degraded cement matrix
1388	W323	External	East side of shack - Loose	Fibre cement panels	0.3m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
1389	W323	External	East side of shack - East side of fence	Soil sample	-	W323	Not analysed	-	-	-	-	-	-	None	DSI planned
1393	W323	External	South side of shack - Canopy area	Corrugated fibre cement panels	5m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	Possible impact - Unable to access due to bee hive
1398	W323	External	South side of shack - canopy area	Corrugated fibre cement panels	5m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	Possible impact area to soil - unable to sample due to bee hives
1402	W326	External	Shack - rear shed - Throughout	Fibre cement debris	12m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	30m² impacted - sub surface
1406	W328	External	North west side of shack - shower door	Fibre cement panels	3m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
1407	W328	External	North west side of shack - sink unit	Bitumen sound dampener membrane	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1410	W330	External	South east of shack - Fence	Corrugated fibre cement panels	6m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1413	W332	External	East side of generator room (west of shack) - Ground	Fibre cement debris	1m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	*Larger ACM fragments on surface and also buried when started to rake near the shed doorway. Surface has been cleared.*
1414	W332	External	South west of shack - Drive way	Fibre cement debris	1.5m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Likely - Routinely accessed	Remove or Manage as per AMP	*Small ACM fragments scattered across track near shack.*
1416	W333	External	South of shack - Fence	Corrugated fibre cement panels	6m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1417	W333	External	North of shack - Ground - Sink unit	Bitumen sound dampener membrane	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1419	W335	External	North east of shack - Fence	Corrugated fibre cement panels	4m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1421	W335	External	South west of shack - Fence	Corrugated fibre cement panels	1m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1422	W335	External	South west of shack - Old heater unit	Fibre cement pipe	1m-lin	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	x2
1424	W335	External	South west of shack - adjacent to heater	Millboard gasket residue	20cm²	-	Suspect Asbestos	Friable	Unsealed LDB, paper, gaskets	LDB, paper, textiles	Moderate damage / deterioration	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
	W335	External	South of shack - Ground	Corrugated fibre cement panels	2m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	*ACM sheet partially buried.*
1425	W337	External	Windows	Window putty	3m-lin	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1426	W338	External	North side of shack - Infill panel above door	Fibre cement panels	0.5m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1428	W340	External	North of shack - Outhouse - Floor	Fibre cement panels	3m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	Modern linoleum over panel
1431	W340	External	South east of shed - adjacent trailer - Sink unit	Bitumen sound dampener membrane	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1432	W341	External	North of shack - Fence	Corrugated fibre cement panels	12m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1435	W342	External	Windows	Window putty	10m-lin	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1436	W342	External	North east wall of entrance (extending around shack)	Fibre cement panels	18m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1437	W342	External	North east of shack - Fence	Corrugated fibre cement panels	38m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1438	W342	External	South east of shack - Fence	Corrugated fibre cement panels	2m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1440	W342	External	North of shack - Ground - Sink unit	Fibre cement debris	30cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	3m² impacted - sub surface

Appendix D: Asbestos Register - Table 1

Item No.	Shack/Site	Location	Material Location	Material Description	Extent of Material (m² / m-lin)	Sample Number	Asbestos Type(s)	Friability	Surface Properties	Product Type	Condition	Fibre Release Risk	Disturbance Potential	Recommended Action	Aurora Comments *Senversa Comments*
1441	W343	External	East side of shack - Infill panel	Fibre cement panels	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1443	W343	External	South side of east metal shed - Loose	Fibre cement panels	0.75m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1445	W343	External	South west of large metal shed/shack - Gutter packer	Fibre cement panels	60cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1449	W345 - Under Parks & Wildlife control	Internal	North west side of shack - Garage - Loose	Fibre cement panels	1m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	x2 panels
1450	W346	External	East of shack - Fence	Corrugated fibre cement panels	3m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
1455	W349	External	North west of shack - Sink unit	Bitumen sound dampener membrane	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1458	W352	External	South side of shack - Sink unit	Bitumen sound dampener membrane	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1466	W354	External	North side of shack - Loose	Fibrous membrane	0.5m²	A11550	Chrysotile	Friable	Unsealed LDB, paper, gaskets	LDB, paper, textiles	Moderate damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	Bitumen based
1467	W355	External	North, south west, west and south of shack - Walls	Fibre cement panels	50m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1468	W355	External	North, east and west side of shack - Fence	Corrugated fibre cement panels	13m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1469	W355	External	Eaves lining	Fibre cement panels	14m-lin	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1470	W355	External	South west of shack - Ground	Fibre cement debris	2m²	W5_W355_017	Chrysotile & Amosite	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	*Large ACM sheet half buried in vegetation.*
1472	W355	External	South of shack - Small fence	Corrugated fibre cement panels	22m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1473	W355	External	Windows	Window putty	3m-lin	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1474	W355	External	North, south west, west and south of shack - Walls	Fibre cement jointing strips	25m-lin	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1476	W355	External	South of shack - Toilet - Wall	Fibre cement panels	2m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	6m² impacted - sub surface
1477	W355	External	North east of shack - Outhouse wall	Fibre cement panels	24m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
1478	W355	External	North east of shack - Windows	Fibre cement panels	1m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1480	W355	External	East side of shack - Fence	Soil sample	-	W355	Not analysed	-	-	-	-	-	-	None	DSI planned
1482	W357	External	West side of shack - Loose	Disused electrical mounting board	2m²	A11549	Chrysotile	Non-friable	Composite Material	Composite, bitumen, vinyl	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1483	W357	External	North side of alfresco area - Fence	Electrical mounting board	4m²	-	Suspect Asbestos	Non-friable	Composite Material	Composite, bitumen, vinyl	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1484	W358	External	Windows	Window putty	3m-lin	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1487	W361	External	Roof	Corrugated fibre cement panels	20m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1488	W361	External	North side of shack - Wall	Corrugated fibre cement panels	6m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1489	W361	External	West side of shack - Wall	Corrugated fibre cement panels	20m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1490	W361	External	West side of shack - Ground	Soil sample	-	W361	Not analysed	-	-	-	-	-	-	None	-
1491	W362	External	East side of shack - Entrance door	Fibre cement panels	0.25m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-
1494	W365	External	North west side of shack - Fence - behind W274b	Corrugated fibre cement panels	2m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1495	W366	External	North west side of shack - wall	Shadow-line fibre cement panels	11m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
1496	W366	External	North side of shack - wall	Shadow-line fibre cement panels	8m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-

Appendix D: Asbestos Register - Table 1

Item No.	Shack/Site	Location	Material Location	Material Description	Extent of Material (m^2 / m-lin)	Sample Number	Asbestos Type(s)	Friability	Surface Properties	Product Type	Condition	Fibre Release Risk	Disturbance Potential	Recommended Action	Aurora Comments *Senversa Comments*
1497	W366	External	South side of shack - roof	Corrugated fibre cement panels	16m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
1498	W366	External	North side of shack - roof	Corrugated fibre cement panels	8m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	-
	Common Area (WM6-41)	External	East of W017	Fibre cement debris	100m^2	W6_Common Area_014	Chrysotile & Amosite	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Moderate damage / deterioration	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	*Common Area east of W017 extending north to W022, including the track. Scattered small fragments throughout area.*
	Common Area (WM5-1051)	External	East of W027	Fibre cement debris	40m^2	W9_Track_012	No Asbestos Detected	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Moderate damage / deterioration	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	*Common area between W013 and W025, scattered ACM surface fragments throughout area. Mound in background of this photo the mound described above at W014. Remains outstanding due to varied nature of fragments observed across surface and large scale area of scattered fragments.*
	Common Area (WM8-1251)	External	East of W364	Fibre cement debris	30m^2	W8_Common Area_20	Chrysotile & Amosite	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Moderate damage / deterioration	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	*ACM sheeting partially buried in mound.*
	Track (WM15-1330)	External	South of W150	Fibre cement debris	60m^2	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Moderate damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	*ACM fragments scattered on surface.*
	Track (WM15-1334)	External	Between W152 and W151	Fibre cement debris	10m^2	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Moderate damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	*ACM fragments scattered on surface and partially buried.*
	Track (WM15-1339)	External	West of W158	Fibre cement debris	30m^2	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Moderate damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	*ACM fragments scattered on surface and partially buried.*
	Track (WM15-1344)	External	West of W362	Fibre cement debris	15m^2	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Moderate damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	*ACM fragments scattered on surface and partially buried.*
	Common Area (WM15-2379)	External	North-west of W252	Fibre cement debris	40m^2	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Moderate damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	*Large area of ACM buried in soil & debris.*
1499	Wedge - current tip	External	South east side of tip - on ground adjacent gas bottles and batteries	Corrugated fibre cement debris	10m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Likely - Routinely accessed	Remove or Manage as per AMP	>20cm² per 1m²
1500	Wedge - current tip	External	South east side of tip - on ground adjacent gas bottles and batteries	Bitumen/paper debris	<5m²	A11523	No Asbestos Detected	-	-	-	-	-	-	None	>20cm² per 1m²
1501	Wedge - current tip	External	South east side of tip - on ground adjacent gas bottles and batteries	Low density board debris	20m²	A11524	No Asbestos Detected	-	-	-	-	-	-	None	>20cm² per 1m²
1502	Wedge - current tip	External	South east side of tip - on ground adjacent gas bottles and batteries	Asbestos cement (Tilux) debris	20m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Likely - Routinely accessed	Remove or Manage as per AMP	>20cm² per 1m²
1503	Wedge - current tip	External	North east side of tip - household area	Superlux panels	8m²	A11526	No Asbestos Detected	-	-	-	-	-	-	None	>20cm² per 1m²
1504	Wedge - current tip	External	North east side of tip - household area	Shadow-line fibre cement debris	1m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Likely - Routinely accessed	Remove or Manage as per AMP	>20cm² per 1m²
1505	Heritage Site	Site A - External	Ground	Dumped corrugated fibre cement panels	15m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	Light grey - worn
1506	Heritage Site	Site A - External	Ground	Dumped corrugated fibre cement panels	15m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	Dark grey
1507	Heritage Site	Site B - External	Ground	Dumped corrugated fibre cement panels	2.5m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-
1508	Heritage Site	Site C - External	Ground	Dumped fibre cement panel debris	2m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	5m² impacted + sub surface
1509	Wedge - Previous tip site	External	South 30 49 195 East 115 12 332	Fibre cement debris	30cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	sub surface impact

Appendix D: Asbestos Register - Table 2

Item No.	Shack/Site	Location	Material Location	Material Description	Extent of Material (m² / m-lin)	Sample Number	Asbestos Type(s)	Friability	Surface Properties	Product Type	Condition	Fibre Release Risk	Disturbance Potential	Recommended Action	Comments	Senversa Comments	Area of Impact	Weight of ACM Removed (g)
2	G001	External	North east of shack - Rear of BBQ - Ground	Corrugated fibre cement debris	40cm²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	1m² impacted - surface	No ACM identified.	-	-
6	G002	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
9	G003	External	East side of shack - Ground	Fibre cement debris	2m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	11m² impacted - sub surface	No ACM identified.	-	-
8	G003	External	North side of shack - Ground	Fibre cement debris	2m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	6m² impacted - sub surface	No ACM identified.	-	-
7	G003	External	North side of shack - Loose	Fibre cement panels	3m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-	No ACM identified.	-	-
11	G004	External	East of shack - Driveway / ground	Fibre cement debris	20cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Likely - Routinely accessed	Remove or Manage as per AMP	1m² impacted - surface	No ACM identified.	-	-
10	G004	External	East of shack - North of shed - Ground	Fibre cement debris	3m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	6m² impacted - surface	No ACM identified.	-	-
12	G005 - former shack site	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
13	G006	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
14	G007 - former shack site	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
15	G008	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
18	G009	External	West of shack - Ground	Fibre cement debris	3m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	14m² impacted - sub surface	15 ACM fragments	1m2	98
19	G009	External	North side of shack - Ground	Fibre cement debris	50cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	5m² impacted - surface	No ACM identified.	-	-
21	G009	External	North side of shack - Loose (against north wall)	Fibre cement panels	1.5m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-	No ACM identified.	-	-
16	G009	External	South of shack - Loose on ground	Fibre cement panels	3m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-	No ACM identified.	-	-
24	G010	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
25	G011	External	South east of shack - Ground (below water tank)	Fibre cement debris	2m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	2m² impacted - surface	No ACM identified.	-	-
26	G012	External	North east of shack - Ground (under timber canopy)	Disused fibre cement panels	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-	No ACM identified.	-	-
27	G012	External	North east of shack - Ground (under timber canopy)	Fibre cement debris	1.2m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	2m² impacted - surface	No ACM identified.	-	-
28	G012	External	South east of shack - Ground	Fibre cement debris	10cm²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	1m² impacted - surface	No ACM identified.	-	-
29	G013	External	West side of shack - Ground	Fibre cement panel debris	40cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	set in concrete	No ACM identified.	-	-
34	G014	External	West of shack - West of water tank - Ground (loose)	Fibre cement panels	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-	ACM fragments	0.2m2	2400
38	G014	External	East of shack - East of shed - Loose	Corrugated fibre cement panels	6m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-	No ACM identified.	-	-
39	G014	External	West of shack - Ground (driveway)	Fibre cement debris	60cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Likely - Routinely accessed	Remove or Manage as per AMP	3m² impacted - sub surface	No ACM identified.	-	-
42	G016	External	South of shack - Ground	Fibre cement debris	50cm²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	1m² impacted - surface	No ACM identified.	-	-
44	G016	External	West of shack - Wall cladding	Fibre cement weatherboard panels	10m²	A11620	No Asbestos Detected	-	-	-	-	-	-	None	(pressed fibre cement panel/indented)		-	-
48	G017	External	East of shack - Ground	Fibre cement debris	20cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	1m² impacted - surface	Surface ACM fragments	1m2	87
51	G017	External	East of shack - South of garage door	Fibre cement debris	30cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	1m² impacted - surface	15 ACM fragments	1m2	149
50	G017	External	East of shack - South of garage door	Fibre cement panels	4.5m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-	No ACM identified.	-	-
49	G017	External	East of shack - Water tank (below and to side)	Fibre cement debris	2.5m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	30m² impacted - sub surface	No ACM identified.	-	-
56	G018	External	North of shack - Shed - East of shed (G18a) - ground/loose	Fibre cement panel	1m-lin	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-	No ACM identified.	-	-
58	G020	External	North of shack - Ground (under cover area)	Fibre cement debris	50cm²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	2m² impacted - surface	2 ACM fragments	0.2m2	48
	G020	External	West of shack - Ground	Fibre cement debris			Suspect Asbestos					-	-			5 ACM fragments	2m2	145
60	G021	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
70	G022	External	East of shack - East of fence - Ground	Fibre cement debris	1m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	6m² impacted - surface	3 ACM fragments	0.1m2	85
66	G022	External	North east of shack - Ground	Fibre cement panels	0.7m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-	3 ACM fragments	0.3m2	267
75	G022	External	South of shack - south of shed - Ground	Fibre cement debris	2.2m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	20m² impacted - surface	Broken ACM sheet	2m2	2800
72	G022	External	East of shack - Loose	Fibre cement panels	1.5m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-	No ACM identified.	-	-
73	G022	External	South of shack - East of shed - Ground	Fibre cement debris	40cm²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	3m² impacted - surface	No ACM identified.	-	-

Appendix D: Asbestos Register - Table 2

Item No.	Shack/Site	Location	Material Location	Material Description	Extent of Material (m² / m-lin)	Sample Number	Asbestos Type(s)	Friability	Surface Properties	Product Type	Condition	Fibre Release Risk	Disturbance Potential	Recommended Action	Comments	Senversa Comments	Area of Impact	Weight of ACM Removed (g)
79	G023	External	South of shack - South of fence - Ground	Fibre cement debris	50cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	1m² impacted - sub surface	9 surface ACM fragments	0.2m2	128
80	G024	External	East of shack - Ground (driveway)	Fibre cement debris	1.5m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Likely - Routinely accessed	Remove or Manage as per AMP	30m² impacted - surface	4 ACM fragments	0.2m2	24
	G024	External	East of shack - Ground	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	Surface ACM fragments	0.7m2	68
93	G025	External	East of shack - Ground	Fibre cement debris	2m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	30m² impacted - sub surface	Surface ACM fragments	0.1m2	185
95	G025	External	East of shack - East of shed - Loose	Corrugated fibre cement panels	2m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-	No ACM identified.	-	-
88	G025	External	East of shack - Ground	Fibre cement debris	1.5m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	6m² impacted - sub surface	No ACM identified.	-	-
89	G025	External	East of shack - Loose	Corrugated fibre cement panels	4m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-	No ACM identified.	-	-
94	G025	External	East of shack - North of metal shed - Loose	Fibre cement panels	5m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-	No ACM identified.	-	-
91	G025	External	South east of shack - Loose	Corrugated fibre cement panels	1.5m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-	No ACM identified.	-	-
85	G025	External	South of shack - Garden bed - Ground	Fibre cement debris	1m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	3m² impacted - sub surface	No ACM identified.	-	-
84	G025	External	South of shack - Ground	Corrugated fibre cement debris	75cm²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	2m² impacted - sub surface	No ACM identified.	-	-
96	G026	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
97	G027	External	South of shack - Ground	Fibre cement debris	20cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	1m² impacted - surface	12 surface ACM fragments	0.2m2	85
105	G028	External	East of shack - Old shed foot print	Fibre cement debris	2m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	25m² impacted - sub surface	Surface ACM fragments	2m2	150
102	G028	External	North and north west of shack - Ground	Corrugated fibre cement debris	2m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	24m² impacted - sub surface	Surface ACM fragments	0.2m2	230
101	G028	External	North of shack - Ground	Fibre cement debris	40cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	8m² impacted - sub surface	No ACM identified.	-	-
109	G029	External	East of shack - Ground (adjacent sink unit)	Fibre cement debris	20cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	1m² impacted - surface	No ACM identified.	-	-
110	G030	External	East of shack - Ground	Corrugated fibre cement debris	40cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	1m² impacted - surface	No ACM identified.	-	-
112	G031	External	South of shack - Ground	Fibre cement debris	60cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	2m² impacted - surface	No ACM identified.	-	-
121	G032	External	North of south shack - Entrance to garage - Ground	Fibre cement debris	30cm²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	2m² impacted - surface	7ACM fragments	0.2m2	87
118	G032	External	East of south shack - Ground	Fibre cement debris	40cm²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	2m² impacted - surface	No ACM identified.	-	-
122	G033	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
123	G034	External	Driveway to shack - Ground	Fibre cement debris	20cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Likely - Routinely accessed	Remove or Manage as per AMP	1m² impacted - surface	No ACM identified.	-	-
124	G035 - former shack site	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
125	G036	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
126	G037 - former shack site	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	10 surface ACM fragments	1m2	750
128	G038	External	North of shack - Ground	Fibre cement debris	60cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	1m² impacted - surface	No ACM identified.	-	-
134	G039	External	North east of shack - Lean- to metal shed - Loose	Corrugated fibre cement panels	8m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-	4 ACM fragments	0.1m2	21
137	G040	External	East of shack - Loose	Corrugated fibre cement debris	12m²	G2_G40_22	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
138	G040	External	East of shack - Loose	Fibre cement debris	10m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	24m² impacted - sub surface	No ACM identified.	-	-
140	G040	External	South east of shack - Ground (adjacent outhouse)	Fibre cement debris	30cm²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	1m² impacted - sub surface	No ACM identified.	-	-
136	G040	External	West of shack - on hill	Fibre cement debris	20m²	G2_G40_21	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
141	G041 - former shack site	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
142	G042 - former shack site	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
144	G043	External	South east of shack - Adjacent outhouse - Ground	Fibre cement panels	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-	No ACM identified.	-	-
145	G043	External	South east of shack - Adjacent outhouse - Ground	Fibre cement debris	30cm²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	2m² impacted - surface	No ACM identified.	-	-
152	G044	External	East of shack - Ground	Corrugated fibre cement debris	1.2m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	8m² impacted - sub surface	No ACM identified.	-	-
163	G047	External	East of shack - Ground	Fibre cement debris	80cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	6m² impacted - sub surface	No ACM identified.	-	-
168	G047	External	South east of shack - East of shed - Ground	Corrugated fibre cement panels	7m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-	No ACM identified.	-	-

Appendix D: Asbestos Register - Table 2

Item No.	Shack/Site	Location	Material Location	Material Description	Extent of Material (m² / m-lin)	Sample Number	Asbestos Type(s)	Friability	Surface Properties	Product Type	Condition	Fibre Release Risk	Disturbance Potential	Recommended Action	Comments	Senversa Comments	Area of Impact	Weight of ACM Removed (g)
167	G047	External	South east of shack - South east of shed - Ground	Corrugated fibre cement panels	9m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-	No ACM identified.	-	-
166	G047	External	South of shack - Ground	Corrugated fibre cement debris	80cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	2m² impacted - sub surface	No ACM identified.	-	-
173	G048	External	North east side of shack - Garden bed	Fibre cement debris	1.2m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	4m² impacted - sub surface	No ACM identified.	-	-
170	G048	External	South of shack - amongst stone, ground	Corrugated fibre cement debris	70cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	6m² impacted - sub surface	No ACM identified.	-	-
177	G049	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
178	G050	External	South of shack - Ground	Fibre cement debris	2m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	24m² impacted - sub surface	No ACM identified.	-	-
182	G051	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
183	G052	External	East of shack - Ground	Fibre cement debris	50cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	1m² impacted - surface	No ACM identified.	-	-
186	G053	External	South east of shack - Ground	Fibre cement debris	40cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	1m² impacted - surface	Several ACM fragments	0.2m2	78
188	G053	External	South east of shack - Driveway	Patterned vinyl	3m²	A11623	No Asbestos Detected	-	-	-	-	-	-	None	38m² impacted - surface	No ACM identified.	-	-
187	G053	External	South east of shack - Driveway	Fibre cement debris	20cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Likely - Routinely accessed	Remove or Manage as per AMP	1m² impacted - surface	No ACM identified.	-	-
189	G054	External	North east of shack - Driveway	Fibre cement debris	50cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Likely - Routinely accessed	Remove or Manage as per AMP	2m² impacted - sub surface	No ACM identified.	-	-
197	G055	External	East of shack - North of metal shed - Ground	Corrugated fibre cement debris	70cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	1m² impacted - surface	5 ACM fragments	1m2	52
196	G055	External	East of shack - Ground	Fibre cement debris	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	1m² impacted - surface	No ACM identified.	-	-
200	G055	External	South east of shack - South of fibre glass water tank - Ground	Fibre cement debris	30cm²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	1m² impacted - surface	No ACM identified.	-	-
208	G056	External	South of shack - Ground	Fibre cement debris	30cm²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	2m² impacted - surface	Approx. 20 ACM fragments	2m2	68
207	G056	External	South east shed - West of shed - Ground	Corrugated fibre cement debris	30cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	1m² impacted - surface	12 ACM fragments	1m2	122
205	G056	External	East of shack - South of water tank - Ground	Fibre cement debris	50cm²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	2m² impacted - sub surface	No ACM identified.	-	-
204	G056	External	North east of shed - North east of fence	Fibre cement debris	1.5m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	5m² impacted - sub surface	No ACM identified.	-	-
221	G062	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
222	G063 - former shack site	External	South - 30 39 939 East - 115 08 171	Fibre cement debris	10m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	60m² impacted - sub surface	Surface ACM fragments	200m2	9420
224	G064	External	North east of shack - Ground	Fibre cement debris	30cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	1m² impacted - surface	No ACM identified.	-	-
227	G065	External	South east of shack - South east of shed - Ground	Fibre cement debris	0.5m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	6m² impacted - sub surface	7 ACM fragments	0.2m2	52
228	G066	External	South of shack - Ground	Fibre cement debris	50cm²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	4m² impacted - sub surface	No ACM identified.	-	-
231	G067	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
232	G068	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
235	G069	External	North west of shack - Ground	Fibre cement debris	30cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	1m² impacted - surface	7 ACM fragments	0.5m2	47
236	G069	External	South west corner of shack - Ground	Fibre cement debris	20cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	1m² impacted - surface	Surface ACM fragments	1.5m2	150
237	G070	External	South of shack - Ground	Grey/patterned vinyl	6m²	A11625	No Asbestos Detected	-	-	-	-	-	-	None	Including debris - Possible paper backing	No ACM identified.	-	-
	G071	External	South-east of shack - Ground	Pipe	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	ACM pipe	0.1m2	2556
246	G072	External	North of shack - South of metal shed - Ground	Fibre cement debris	20cm²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	2m² impacted - surface	Surface ACM fragments	2m2	148
243	G072	External	East of shack - Loose	Fibre cement panels	5m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-	No ACM identified.	-	-
245	G072	External	North of shack - Adjacent water tank - Ground	Fibre cement debris	50cm²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	1m² impacted - surface	No ACM identified.	-	-
247	G072	External	North of shack - North of metal shed - Adjacent water tank - Ground	Fibre cement debris	40cm²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	3m² impacted - sub surface	No ACM identified.	-	-
242	G072	External	North of shack - Walkway	Fibre cement debris	20cm²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	1m² impacted - surface	No ACM identified.	-	-
248	G072	External	West of shack - Ground	Fibre cement debris	2m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	30m² impacted - sub surface	No ACM identified.	-	-
256	G073	External	South of shack - Ground	Fibre cement debris	1m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	9m² impacted - sub surface	Surface ACM fragments	0.5m2	115
257	G073	External	East of shack - South of (far) metal outhouse - Ground	Fibre cement debris	30cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	1m² impacted - sub surface	No ACM identified.	-	-
267	G075	External	North of shack - Ground	Fibre cement debris	60cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	2m² impacted - sub surface	14 ACM fragments	2m2	125

Appendix D: Asbestos Register - Table 2

Item No.	Shack/Site	Location	Material Location	Material Description	Extent of Material (m² / m-lin)	Sample Number	Asbestos Type(s)	Friability	Surface Properties	Product Type	Condition	Fibre Release Risk	Disturbance Potential	Recommended Action	Comments	Senversa Comments	Area of Impact	Weight of ACM Removed (g)
262	G075	External	South east of shack - Ground	Fibre cement panels	2m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-	No ACM identified.	-	-
263	G075	External	South east of shack - Ground	Fibre cement debris	30cm²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	1m² impacted - surface	No ACM identified.	-	-
269	G076	External	South of shack - North of shed - Ground	Corrugated fibre cement debris	40cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	1m² impacted - surface	ACM fragments on ground surface	1m2	57
270	G076	External	South of shack - North east of shed - Adjacent water tank - Ground	Fibre cement debris	30cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	2m² impacted - sub surface	No ACM identified.	-	-
274	G077	External	North of shack - Entrance walkway - Ground	Corrugated fibre cement debris	20cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	1m² impacted - surface	ACM fragment on ground surface	5m2	123
275	G078	External	North of shack - West of far north shed - Ground	Fibre cement debris	50cm²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	2m² impacted - sub surface	No ACM identified.	-	-
278	G079	External	North of shack - Ground	Fibre cement debris	5m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	50m² impacted - sub surface	Surface ACM fragments	300m2	5300
280	G079	External	South of shack - driveway, ground	Fibre cement debris	9m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Likely - Routinely accessed	Remove or Manage as per AMP	100m² impacted - sub surface	No ACM identified.	-	-
279	G079	External	West of shack - Ground	Fibre cement debris	70cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	2m² impacted - surface	No ACM identified.	-	-
281	G080	External	South of shack - Ground	Fibre cement debris	50cm²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	3m² impacted - sub surface	Surface ACM fragments	60m2	150
285	G080	External	East of shack - Ground	Fibre cement debris	40cm²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	3m² impacted - sub surface	No ACM identified.	-	-
283	G080	External	South west of shack - Ground	Fibre cement debris	2m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	14m² impacted - sub surface	No ACM identified.	-	-
286	G081	External	South east of shack - East of garage entrance - Ground	Fibre cement panels	80cm²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	12m² impacted - sub surface	ACM fragments on ground surface	3m2	86
287	G082	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
291	G083	External	North of shack - Ground	Tilux debris	70cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	1m² impacted - surface	ACM fragment on ground surface	1m2	46
292	G084	External	South of shack - Ground	Fibre cement debris	80cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	9m² impacted - sub surface	No ACM identified.	-	-
301	G086	External	East of shack - East of fence - Ground	Shadow-line fibre cement debris	80cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	9m² impacted - sub surface	Surface ACM fragments	2m2	128
295	G086	External	North and north west of shack - Ground	Fibre cement debris	50cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	4m² impacted - sub surface	No ACM identified.	-	-
302	G087	External	North of shack - Ground	Fibre cement debris	60cm²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	3m² impacted - sub surface	ACM fragment on ground surface	1m2	57
	G088	External	North of shack - Ground	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	ACM fragment on ground surface	1m2	76
306	G088	External	South west of shack - Adjacent water tank - Ground	Fibre cement debris	20cm²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	2m² impacted - sub surface	No ACM identified.	-	-
308	G089	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
310	G090	External	North of shack - Garden bed	Fibre cement debris	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	8m² impacted - sub surface	No ACM identified.	-	-
314	G091	External	West of shack - Ground / garden bed	Corrugated fibre cement debris	2m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	8m² impacted - sub surface	No ACM identified.	-	-
322	G092	External	North of shack - Ground	Corrugated fibre cement debris	2m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	25m² impacted - sub surface	Surface ACM fragments	300m2	3100
323	G092	External	East and north east of shack - Ground	Corrugated fibre cement debris	2m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	30m² impacted - sub surface	No ACM identified.	-	-
328	G093	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
334	G094	External	South of shack - Ground	Shadow-line fibre cement debris	60cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	3m² impacted - sub surface	ACM fragment on ground surface	1m2	245
338	G094	External	North east of shack - Driveway / ground	Fibre cement debris	70cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Likely - Routinely accessed	Remove or Manage as per AMP	15m² impacted - sub surface	Multiple ACM fragments	2m2	300
333	G094	External	East of shack - Ground	Shadow-line fibre cement debris	80cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	8m² impacted - sub surface	ACM fragment on ground surface	1m2	408
339	G095	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
340	G096	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	Broken ACM sheet	1m2	1000
345	G097	External	East of shack - Ground	Fibre cement debris	20cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	1m² impacted - surface	Broken ACM sheet	1m2	3000
344	G097	External	North of shack - Ground	Fibre cement debris	30cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	2m² impacted - surface	No ACM identified.	-	-
347	G098	External	South west of shack - Ground	Fibre cement debris	25cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	1m² impacted - surface	No ACM identified.	-	-
353	G099	External	East of shack - Ground	Fibre cement shuttering	50cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-	Broken ACM sheet	1m2	1000
361	G100	External	East of shack - Ground	Fibre cement debris	60cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	2m² impacted - surface	No ACM identified.	-	-
360	G100	External	East of shack - Loose	Fibre cement column debris	70cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	2m² impacted - sub surface	No ACM identified.	-	-
358	G100	External	South east of shack - Below metal water tank	Corrugated fibre cement debris	30cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	3m² impacted - surface	No ACM identified.	-	-

Appendix D: Asbestos Register - Table 2

Item No.	Shack/Site	Location	Material Location	Material Description	Extent of Material (m² / m-lin)	Sample Number	Asbestos Type(s)	Friability	Surface Properties	Product Type	Condition	Fibre Release Risk	Disturbance Potential	Recommended Action	Comments	Senversa Comments	Area of Impact	Weight of ACM Removed (g)
367	G101	External	South of shack - Ground	Corrugated fibre cement debris	70cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	2m² impacted - surface	Surface ACM fragments	100m2	2200
370	G101	External	East of shack - Ground	Fibre cement debris	60cm²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	2m² impacted - surface	No ACM identified.	-	-
366	G101	External	South of shack - Loose	Corrugated fibre cement panels	2m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-	No ACM identified.	-	-
375	G102	External	South west of shack - Ground	Fibre cement debris	60cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	2m² impacted - sub surface	No ACM identified.	-	-
377	G103	External	North of shack - Ground	Vinyl sheet	3m²	A11629	No Asbestos Detected	-	-	-	-	-	-	None	Possible paper backing	No ACM identified.	-	-
376	G103	External	North of shack - Loose	Corrugated fibre cement panels	4.5m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-	No ACM identified.	-	-
380	G104 - former shack site	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
382	G105	External	East of shack - Ground	Fibre cement debris	20cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	1m² impacted - surface	ACM fragment on ground surface	1m2	54
383	G105	External	East of shack - Ground (driveway)	Fibre cement debris	40cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Likely - Routinely accessed	Remove or Manage as per AMP	2m² impacted - sub surface	ACM fragment on ground surface	1m2	222
381	G105	External	South of shack - Ground	Fibre cement debris	60cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	4m² impacted - sub surface	No ACM identified.	-	-
392	G106	External	East of east shed - Ground	Fibre cement debris	20cm²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	1m² impacted - surface	ACM fragment on ground surface	1m2	125
400	G107	External	West of shack - West of shed - Ground	Corrugated fibre cement debris	70cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	6m² impacted - surface	ACM fragment on ground surface	1m2	40
399	G107	External	West and east of shack - Ground	Fibre cement debris	3m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	40m² impacted - sub surface	ACM fragment on ground surface	1m2	67
395	G107	External	East of shack - Ground	Corrugated fibre cement debris	50cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	2m² impacted - sub surface	No ACM identified.	-	-
407	G107	External	West of shack - Loose	Corrugated fibre cement panels	6m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-	No ACM identified.	-	-
406	G107	External	West of shack - Loose	Fibre cement panels	4m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-	No ACM identified.	-	-
409	G108	External	West of shack - South of water tank	Corrugated fibre cement debris	20cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	1m² impacted - surface	Surface ACM fragments	1m2	67
414	G109	External	South of shack - Ground	Fibre cement debris	20cm²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	1m² impacted - surface	Surface ACM fragments	1m2	23
	G109	External	North-east of shack - Ground	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	Surface ACM fragments	1m2	122
	G109	External	North-west of shack - Ground	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	Surface ACM fragments	1m2	300
413	G109	External	South of shack - Loose	Fibre cement panels	9m²	G4_G109_002	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
421	G110	External	North of shack - Walkway / ground	Fibre cement debris	20cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	1m² impacted - surface	Surface ACM fragments	1m2	67
430	G111	External	West of shack - Ground	Fibre cement debris	40cm²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	1m² impacted - surface	Surface ACM fragments	1m2	45
429	G111	External	South of shack - Loose / ground	Fibre cement debris	90cm²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	5m² impacted - surface	No ACM identified.	-	-
431	G111	External	West side of centre shack	Fibre cement debris	20cm²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	1m² impacted - surface	No ACM identified.	-	-
	G112	External	-	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	Surface ACM fragments	1m2	35
443	G113	External	South east of shack - Ground	Corrugated fibre cement debris	20cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	1m² impacted - surface	Surface ACM fragments	1m2	58
444	G113	Internal	Kitchen - sink unit	Bitumen sound dampener membrane	1m²	A11519	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
	G114	External	North-west of shack - Ground	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	Surface ACM fragments	1m2	22
	G114	External	South-east of shack - Ground	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	Surface ACM fragments	1m2	22
	G114	External	North-east of shack - Ground	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	Surface ACM fragments	1m2	54
	G114	External	South-west of shack - Ground	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	Surface ACM fragments	1m2	223
457	G115	External	South west of shack - Ground	Shadow-line fibre cement debris	40cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	1m² impacted - surface	Surface ACM fragments	1m2	50
459	G115	External	South east of shack - Driveway / ground	Fibre cement debris	20m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	100m² impacted - sub surface	Surface ACM fragments	20m2	3560
455	G115	External	North east of shack - Ground	Shadow-line fibre cement debris	20cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	1m² impacted - surface	No ACM identified.	-	-
458	G115	External	North of shack - Walkway / ground	Shadow-line fibre cement debris	30cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	1m² impacted - surface	No ACM identified.	-	-
456	G115	External	South of shack - Ground	Shadow-line fibre cement debris	30cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	1m² impacted - sub surface	No ACM identified.	-	-
468	G116	External	West of shack - Fence	Fibre cement debris	2m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	4m² impacted - surface	Surface ACM fragments	1m2	50
	G116	External	North-west of shack - Ground	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	Surface ACM fragments	1m2	123

Appendix D: Asbestos Register - Table 2

Item No.	Shack/Site	Location	Material Location	Material Description	Extent of Material (m² / m-lin)	Sample Number	Asbestos Type(s)	Friability	Surface Properties	Product Type	Condition	Fibre Release Risk	Disturbance Potential	Recommended Action	Comments	Senversa Comments	Area of Impact	Weight of ACM Removed (g)
	G116	External	North-east of shack - Ground	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	Surface ACM fragments	1m2	200
471	G116	External	East and south east of main shack - Ground	Fibre cement debris	50cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	2m² impacted - sub surface	No ACM identified.	-	-
473	G116	External	South east of main shack - Ground	Fibre cement corner capping	6m-lin	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-	No ACM identified.	-	-
472	G116	External	South east of main shack - Ground	Shadow-line fibre cement debris	5m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	3m² impacted - surface	No ACM identified.	-	-
478	G118	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
	G119	External	West of shack - Ground	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	Surface ACM fragments	1m2	123
	G120	External	South-east of shack - Ground	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	Surface ACM fragments	1m2	20
485	G120	External	East of shack - Ground	Fibre cement debris	70cm²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	Attached to concrete	Surface ACM fragments	1m2	30
	G120	External	South-east of shack - Ground	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	Surface ACM fragments	1m2	35
483	G120	External	South east of shack - Ground	Fibre cement debris	40cm²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	1m² impacted - sub surface	Surface ACM fragments	1m2	123
	G121	External	South of shack - Ground	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	Surface ACM fragments	1m2	17
	G121	External	East of shack - Ground	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	Surface ACM fragments	1m2	20
	G121	External	East of shack - Ground	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	Surface ACM fragments	1m2	25
	G121	External	North of shack - Ground	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	Surface ACM fragments	1m2	25
	G122	External	West of shack - Ground	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	Surface ACM fragments	1m2	980
507	G122	External	South of shack - Ground	Corrugated fibre cement panels	50m²	G5_G122_15	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
506	G122	External	South west of shack - Ground	Fibre cement debris	2m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	7m² impacted - surface and under water tank (attached to concrete)	No ACM identified.	-	-
511	G123	External	South of shack - Ground	Fibre cement debris	50cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	Impacted area - approx 2m² - sub surface	5 ACM fragments	0.1m2	45
	G124	External	East of shack - Ground	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	Surface ACM fragments	0.1m2	60
	G124	External	East of shack - Ground	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	Surface ACM fragments	0.2m2	68
514	G124	External	West and east of shack - Ground	Corrugated fibre cement debris	1m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	10m² impacted - sub surface	12 ACM fragments	0.2m2	87
516	G125	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
	G127	External	North of shack - Ground	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	Surface ACM fragments	1m2	120
523	G129	External	East side of shack - North entrance walkway	Fibre cement panels	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-	Surface ACM fragments	1m2	30
522	G129	External	East side of shack - South of shed	Fibre cement panels	4m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-	No ACM identified.	-	-
527	G129	External	South of shack - Ground	Fibre cement debris	40cm²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	1m² impacted - surface	No ACM identified.	-	-
	G131	External	East of shack - Ground	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	Surface ACM fragments	1m2	219
539	G131	External	North west side of shack - Ground	Corrugated fibre cement debris	1.3m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	Impacted area - approx 5m² - sub surface	No ACM identified.	-	-
542	G132	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
544	G133	External	South of shack - Ground	Fibre cement debris	0.7m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	2m² impacted - sub surface	3 surface ACM fragments	0.1m2	9
	G133	External	West of shack - Ground	Fibre cement panels	10m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Moderate condition, no damage	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP		Surface ACM fragments	10m2	1350
546	G134	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
	GM1-189	Track	-	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-			Surface ACM fragments	300m2	3400
	GM1-200	Track	-	Fibre cement debris	-	-	Suspect Asbestos					-	-			Surface ACM fragments	0.5m2	65
	GM1-201	Track	-	Fibre cement debris	-	-	Suspect Asbestos					-	-			Surface ACM fragments	0.2m2	82
	GM2-122	Track	-	Fibre cement debris	-	-	Suspect Asbestos					-	-			Surface ACM fragments	1m2	98
	GM2-125	Track	-	Fibre cement debris	-	-	Suspect Asbestos					-	-			Surface ACM fragments	0.5m2	52
	GM2-154	Common Area	-	Fibre cement debris	-	-	Suspect Asbestos					-	-			Surface ACM fragments	100m2	2210
	GM2-173	Common Area	-	Fibre cement debris	-	-	Suspect Asbestos					-	-			Surface ACM fragments	0.1m2	82

Appendix D: Asbestos Register - Table 2

Item No.	Shack/Site	Location	Material Location	Material Description	Extent of Material (m^2 / m-lin)	Sample Number	Asbestos Type(s)	Friability	Surface Properties	Product Type	Condition	Fibre Release Risk	Disturbance Potential	Recommended Action	Comments	Senversa Comments	Area of Impact	Weight of ACM Removed (g)
	GM-27	Track	-	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-			Surface ACM fragments	less then 1m2	30
	GM3-80	Track	-	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-			Surface ACM fragments	larger than 20m2	280
	GM3-82	Track	-	Fibre cement debris	-	-	Suspect Asbestos					-	-			Surface ACM fragments	1m2	56
	GM4-57	Track	-	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-			Surface ACM fragments	larger than 30m2	180
	GM-46	Track	-	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-			Surface ACM fragments	400m2	30
	GM4-63	Track	-	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-			Surface ACM fragments	larger than 20m2	<100
	GM4-65	Track	-	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-			Surface ACM fragments	less than 1m2	34
	GM4-68	Track	-	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-			Surface ACM fragments	less than 1m2	50
	GM4-69	Track	-	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-			Surface ACM fragments	2m2	40000
	GM5-17	Common Area	-	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-			Surface ACM fragments	0.1m2	22
	GM5-26	Track	-	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-			Surface ACM fragments	less than 1m2	50
	Track (WM5-1051)	External	South of W114	Fibre cement debris	200m^2	W9_Track_012	No Asbestos Detected	-	-	-	-	-	-	-	-	No ACM Detected	-	-
556	W000 - former shack site	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-		-	-
561	W003	External	South side of shack - sand bed	Fibre cement debris	40cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Likely - Routinely accessed	Remove or Manage as per AMP	Impacted area - approx 5m²	Approx. 5-10 ACM fragments.	<1m2	300
558	W003	External	North side of shack - ground	Fibre cement panels	0.5m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	-	No ACM identified.	-	-
559	W003	External	West walkway - in sand	Fibre cement debris	40cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Likely - Routinely accessed	Remove or Manage as per AMP	Impacted area - approx 7m²	No ACM identified.	-	-
	W003	External	South side of shack - Ground		-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	One isolated ACM fragment.	<1m2	scales not working
	W004	External	Northern side of shack - Ground	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	8 small ACM fragments.	1m2	100
565	W004	External	South west corner of shack - Ground	Fibre cement debris	60cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	Impacted area - approx 5m²	8-12 small ACM fragments.	1m2	100
564	W004	External	South west corner of shack - Ground	Corrugated fibre cement shuttering	2m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-	See item no. 565	-	-
563	W004	External	West side of shack - Ground	Corrugated fibre cement panels	6m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-	No ACM identified.	-	-
	W005	External	Northern side of shack - Ground	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	One isolated ACM fragment.	1m2	40
568	W005	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
569	W006	External	West side of shack - Next to water tank	Fibre cement debris	0.5m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Likely - Routinely accessed	Remove or Manage as per AMP	At tank site only	Approx. 10 ACM fragments.	3m2	40
	W006	External	Northern side of shack - Ground	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	Approx. 10-20 ACM fragments.	3m2	80
	W007	External	Western side of shack - Ground	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	One isolated ACM fragment.	1m2	50
571	W007	External	East side of shack - Ground	Fibre cement debris	30cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	Impacted area - approx 3m²	No ACM identified.	-	-
573	W008	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
574	W009	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
575	W010 former shack site	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
576	W011	External	Windows	Window putty	9m-lin	A11535	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
	W012	External	-	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	Several ACM fragments	0.5m2	4600
	W012	External	Western side of shack - Ground	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	Three small isolated ACM fragments.	<0.5m2	<100
581	W013	External	South west side of shack - ground	Fibre cement debris	0.5m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	Impacted area approx - 2m² - surface	5 ACM fragments.	1m2	1023
583	W014	External	South side of shack - ground	Fibre cement debris	1m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	24m² impacted - sub surface	3-4 isolated small ACM fragments.	1m2	100
	W014	External	Western side of shack - Ground	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	One isolated ACM fragment.	1m2	100
	W014	External	North-east side of shack - Ground	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	ACM sheeting	1m2	1900
	W014	External	West of shack - ground	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	3 ACM fragments	5m2	<100
	W015	External	Eastern side of shack - Ground	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	Scattered ACM fragments.	10m2	100

Appendix D: Asbestos Register - Table 2

Item No.	Shack/Site	Location	Material Location	Material Description	Extent of Material (m² / m-lin)	Sample Number	Asbestos Type(s)	Friability	Surface Properties	Product Type	Condition	Fibre Release Risk	Disturbance Potential	Recommended Action	Comments	Senversa Comments	Area of Impact	Weight of ACM Removed (g)
584	W015	External	West side of shack - gas bottle plinth	Fibre cement panels	0.5m²	A11531	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
586	W015	External	South side of shack - ground	Fibre cement debris	60cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	Impacted area - approx 7m² - surface	One isolated ACM fragment.	0.5m2	<100
	W015	External	Western side of shack - Ground	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	Three small isolated ACM fragments.	0.5m2	<100
587	W016	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
	W016a		-	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	No ACM identified.	-	-
	W017	External	Eastern side of shack - Ground	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	Two ACM fragments.	0.5m2	100
591	W017	External	South and south east side of shack - ground	Fibre cement debris	1m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	2m² impacted - surface	Scattered ACM fragments.	3m2	100
590	W017	External	North side of shack - ground	Fibre cement debris	1m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	2m² impacted - surface	No ACM identified.	-	-
588	W017	External	North west of north side of shack	Fibre cement panels	10m²	A11533	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
593	W017	External	North, east and south walls of shack	Fibre cement weather board (wood grain effect)	30m²	A11532	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
	W017	External	Western side of shack - Ground	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	3-6 small isolated ACM fragments.	5m2	<100
596	W018	External	North, west, south and east of shack - ground	Fibre cement debris	10m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	6m² impacted - surface	Approx. 10 ACM fragments.	3m2	100
	W018	External	South of shack - ground	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	Approx. 8-20 ACM fragments.	9m2	800
	W019	External	Southern side of shack - Ground	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	5 medium ACM fragments.	1m2	400
	W019	External	Eastern side of shack - Ground	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	Two isolated ACM fragments.	1m2	<100
610	W020 - Under Parks & Wildlife control	External	Perimeter of shack	Fibre cement debris	3m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	20m² impacted - surface	Five surface ACM fragments - to north of building.	0.5m2	100
	W020 - Under Parks & Wildlife control	External	Western side of shack - Ground	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	Four surface ACM fragments.	0.5m2	200
609	W020 - Under Parks & Wildlife control	External	East side of shack - ground loose	Low density board	5m²	A11529	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
612	W021	External	West side - ground	Fibre cement debris	30cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	1m² impacted - sub surface	Approx. 15 ACM fragments	0.5m2	100
611	W021	External	East side - Ground	Fibre cement debris	10cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	1m² impacted - sub surface	No ACM identified.	-	-
613	W021	External	West side - ground - adjacent water tank	Fibre cement debris	1m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	2m² impacted - sub surface	No ACM identified.	-	-
614	W021	External	West side - ground - under sink	Fibre cement debris	1.5m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	2m² impacted - sub surface	No ACM identified.	-	-
620	W023	External	West side of shack - Ground - Loose	Fibre cement panels	3m²	-	Suspect Not Asbestos	-	-	-	-			Sample/analyse or Manage as per AMP	-	15-20 ACM fragments	0.5m2	2450
621	W023	External	Alfresco area - east and north walls	Fibre cement panels	7.5m²	A11530	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
619	W023	External	West side of shack - water tank packers	Fibre cement panels	1m²	W23_009	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
	W023	External	South-east of shack (in scrub) - Ground	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	Approx. 20 ACM fragments.	2m2	<100
622	W024	External	North east of shack in garden - ground	Fibre cement panels	15m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-	Approx. 12 ACM fragments.	1m2	300
623	W024	External	North east of shack in garden - ground	Fibre cement debris	50cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	Impacted area - approx 20m² - surface	Approx. 20 ACM fragments.	5m2	480
624	W025	External	South side of shack - ground	Fibre cement debris	10m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	Impacted area approx - 60m²	One isolated fragment	0.5m2	1
625	W025	External	East side of shack - ground	Fibre cement debris	0.25m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	Impacted area approx - 10m²	Scattered ACM fragments.	4m2	<100
627	W026	External	North side of shack - ground	Fibre cement debris	10cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	Impacted area - approx 6m² - surface	No ACM identified.	-	-
628	W026	External	South west side of shack - ground	Fibre cement debris	10cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	Impacted area - approx 7m² - surface	No ACM identified.	-	-
629	W027	External	South side of shack - ground	Fibre cement debris	1m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	Impacted area - approx 12m² - surface	No ACM identified.	-	-
	W028	External	West of shack - Ground	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	12 ACM fragments.	0.5m2	1800
634	W028	External	East of shack - East of fence	Corrugated fibre cement debris	80cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	4m² impacted - sub surface	No ACM identified.	-	-
633	W028	External	South east of shack - South of fence	Corrugated fibre cement panels	3m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-	No ACM identified.	-	-
640	W029	External	South of shack - Shed - Sink unit	Bitumen sound dampener membrane	1m²	A11569	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
641	W029	External	South west of shack - Drive way	Corrugated fibre cement debris	20cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	1m² impacted - surface	No ACM identified.	-	-
643	W030a	External	West of shack - West of fence	Corrugated fibre cement debris	40cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	3m² impacted - surface	No ACM identified.	-	-

Appendix D: Asbestos Register - Table 2

Item No.	Shack/Site	Location	Material Location	Material Description	Extent of Material (m² / m-lin)	Sample Number	Asbestos Type(s)	Friability	Surface Properties	Product Type	Condition	Fibre Release Risk	Disturbance Potential	Recommended Action	Comments	Senversa Comments	Area of Impact	Weight of ACM Removed (g)
644	W031	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
647	W032	External	North west side of shack - Ground (front of garage)	Fibre cement debris	2m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	8m² impacted - surface	7 ACM fragments	0.5m2	27
645	W032	External	Spa area - South wall - Infill panel	Fibre cement panels	1.5m²	A11570	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
649	W032	External	West side of shack - Garage - Ground	(Cork effect) Patterned vinyl	2m²	A11572	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
650	W033	Externals	North of shack - Ground	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	7 ACM fragments	0.5m2	68
653	W033	Internal	Rear store - south wall - Loose	Fibre cement panels	1m²	A11504	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
661	W034	External	Garage - West side of garage (garden) - Ground	Fibre cement debris	30cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	2m² impacted - sub surface	7 ACM fragments	1m2	113
657	W034	External	South east of shack garage Loose	Fibre cement panels	1m²	A11564	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
664	W035	External	South side of shack - Ground	Shadow-line fibre cement debris	2m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	12m² impacted - sub surface	Two isolated ACM fragments.	0.2m2	2.5
	W036	External	North east of shack - Ground	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	Three isolated ACM fragments.	0.3m2	6.1
671	W036	External	South west of shack - Alfresco area - Ground	Fibre cement debris	50cm²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	2m² impacted - surface	No ACM identified.	-	-
673	W038	External	South west of shack - South west of shed - Driveway	Fibre cement debris	10cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	1m² impacted - surface	One isolated ACM fragment.	0.2m2	8
674	W038a	External	South east of shack - Garage (south east) - Loose	Fibre cement panels	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-	Two isolated ACM fragments.	0.2m2	22
676	W039	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
677	W040	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
678	W040a	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
	W041	External	South-east side of shack - Ground	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	10 ACM fragments	0.4m2	85
	W041	External	South-east side of shack - Ground	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	15 ACM fragments	3m2	213
681	W041	External	South side of shack - Alfresco area - Ledge	Dust sample	6m²	A11551	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
	W042	External	South-west of shack - Ground	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	5 ACM fragments	0.2m2	85
684	W042	External	Windows	Window putty	4m-lin	A11553	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
687	W043	External	North side of shack - Ground	Fibre cement debris	30cm²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	3m² impacted - surface	No ACM identified.	-	-
685	W043	External	South east side of shack - Ground	Bitumen oven door seal	2m-lin	A11558	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
	W044	External	East of shack - Ground	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	6 ACM fragments	0.5m2	110
691	W044	External	West of shack - Ground	Corrugated fibre cement debris	30cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	3m² impacted - sub surface	No ACM identified.	-	-
692	W044	External	West of shack - West of fence - Ground	Fibre cement debris	70cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	8m² impacted - sub surface	No ACM identified.	-	-
689	W044	External	West side of shack - Wall (alfresco area)	Fibre cement panels	7m²	A11555	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
	W045	External	North of shack - Ground	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	One isolated fragment	0.1m2	8
695	W045	External	South side of shack - Infill panels	Fibre cement panels	1m²	A11559	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
696	W045	External	South side of shack - spare sink unit	Bitumen sound dampener membrane	1m²	A11560	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
703	W047	Alfresco area	Above window - Infill panels	Fibre cement panels	2.5m²	A11502	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
702	W047	Internal	Bedroom - wood burner	Rope seal	<0.5m²	A11501	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
701	W047	Internal	Kitchen - sink unit	Bitumen sound dampener membrane	<1m²	A11500	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
705	W047	Alfresco area	North west corner of shack - Wood burner	Rope seal	0.25m²	A11506	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
700	W047	External	South side of shack - Ground	Fibre cement debris	10cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	1m² impacted - surface	No ACM identified.	-	-
704	W047	Alfresco area	Windows	Window putty	1.5m-lin	A11505	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
	W048	External	East of shack - Ground	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	4 ACM fragments	0.1m2	105
706	W049	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
	W050	External	West of shack - Ground	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	9 ACM fragments.	0.2m2	48

Appendix D: Asbestos Register - Table 2

Item No.	Shack/Site	Location	Material Location	Material Description	Extent of Material (m² / m-lin)	Sample Number	Asbestos Type(s)	Friability	Surface Properties	Product Type	Condition	Fibre Release Risk	Disturbance Potential	Recommended Action	Comments	Senversa Comments	Area of Impact	Weight of ACM Removed (g)
713	W050	External	North side of shack - Ground	Fibre cement debris	50cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	3m² impacted - sub surface	4 ACM fragments	0.3m2	92
715	W050	External	East side of shack - Outside perimeter - Ground	Fibre cement debris	1m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	34m² impacted - sub surface	1 ACM fragment	0.1m2	108
717	W051	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
718	W052	External	North east of shed - Ground	Fibre cement debris	10cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	1m² impacted - sub surface	No ACM identified.	-	-
720	W053	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
730	W055	External	West of shack - Ground	Corrugated fibre cement panels	1m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	1m² impacted - sub surface	5 ACM fragments.	0.2m2	45
727	W055	External	East of shack - Ground	Fibre cement debris	1m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	4m² impacted - sub surface	No ACM identified.	-	-
	W057	External	West side of shack - ground	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	Surface ACM fragments	0.2m2	65
743	W057	External	North east of shack - Fence	Corrugated fibre cement debris	50cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	3m² impacted - surface	4 ACM fragments	0.5m2	114
	W058	External	North side of shack - ground	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	3 ACM fragments	0.3m2	45
	W058	External	North side of shack - ground	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	3 ACM fragments	0.1m2	57
745	W058	External	East side of shack - Loose	Disused fibre cement panels (insulated)	4m²	A11580	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
747	W060	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
748	W061	External	South side of shack - loose	Disused fibre cement panel	1m²	A11582	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
753	W064	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
754	W065	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
	W067	External	South side of shack - ground	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	6 ACM fragments	2m2	241
757	W067	External	South east of shack - small shed - loose	Fibre cement panels	1m²	A11581	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
765	W068	External	South east of shack - Ground	Fibre cement debris	40cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	2m² impacted - surface	No ACM identified.	-	-
771	W069	External	North east of shack - Ground	Fibre cement debris	4m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	40m² impacted - sub surface	No ACM identified.	-	-
775	W070	External	East side of shack - Ground	Fibre cement debris	20cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	9m² impacted - sub surface	No ACM identified.	-	-
776	W070	External	North side of shack - Ground	Fibre cement debris	1m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	10m² impacted - sub surface	No ACM identified.	-	-
780	W071	External	South side of shack - Ground	Fibre cement debris	20cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	1m² impacted - sub surface	No ACM identified.	-	-
782	W071	External	South west of shack - Ground	Fibre cement debris	30cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	4m² impacted - sub surface	No ACM identified.	-	-
784	W072	External	South east of shack - Entrance to garage	Fibre cement debris	50cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	3m² impacted - surface	5 ACM fragments.	0.5m2	85
792	W072	Internal	Battery/ice room - fridge/battery stand	Bitumen seal	<0.5m²	A11509	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
789	W072	Internal	Kitchen - west wall, adjacent sink	Fibre cement panels	2m²	A11508	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
785	W072	External	South west of shack - South west of garage - Ground	Fibre cement debris	3m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	4m² impacted - sub surface	No ACM identified.	-	-
795	W072	Internal	Walkway, Kitchen to south bedroom - floor	Patterned vinyl	<1m²	A11511	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
786	W072	External	West of shack - Ground	Fibre cement debris	40cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	5m² impacted - sub surface	No ACM identified.	-	-
787	W072	External	West of shack - West of fence - Ground	Fibre cement debris	60cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	3m² impacted - sub surface	No ACM identified.	-	-
	W073	External	East of shack - Ground	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	5 ACM fragments.	0.3m2	62
814	W073	External	West of shack - Ground	Fibre cement panels	1.5m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-	No ACM identified.	-	-
813	W073	External	West of shack - Ground	Shadow-line fibre cement debris	70cm	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	16m² impacted - sub surface	No ACM identified.	-	-
815	W073	External	West of shack - West of fence - Ground	Fibre cement pipe	1m-lin	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-	No ACM identified.	-	-
	W074	External	East of shack - Ground	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	6 ACM fragments.	0.2m2	24

Appendix D: Asbestos Register - Table 2

Item No.	Shack/Site	Location	Material Location	Material Description	Extent of Material (m² / m-lin)	Sample Number	Asbestos Type(s)	Friability	Surface Properties	Product Type	Condition	Fibre Release Risk	Disturbance Potential	Recommended Action	Comments	Senversa Comments	Area of Impact	Weight of ACM Removed (g)
821	W074	External	West side of shack - North east of outhouse - Ground	Fibre cement panels	2m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-	No ACM identified.	-	-
823	W075	Internal	Kitchen/dining area floor	Patterned vinyl	2.5m²	A11507	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
829	W076	Internal	Kitchen - floor	Patterned vinyl	9m²	A11515	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
832	W077	External	East side of shack - Ground	Corrugated fibre cement debris	20cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	1m² impacted - surface	No ACM identified.	-	-
835	W078	External	North west of shack - West of fence - Ground	Corrugated fibre cement debris	0.75m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	3m² impacted - sub surface	Scattered ACM fragments.	0.5m2	2000
836	W078	External	South of shack - Ground	Fibre cement debris	0.5m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	6m² impacted - sub surface	No ACM identified.	-	-
837	W078	External	South of shack - South of metal shed - Ground	Fibre cement debris	20cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	1m² impacted - sub surface	No ACM identified.	-	-
	W079	External	South of shack - Ground	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	3 ACM fragments.	0.1m2	43
839	W080	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
841	W081	External	East of shack - Fenced area - Loose	Fibre cement panels	5m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	6m² impacted - surface	No ACM identified.	-	-
845	W083	Internal - assessed externally	East of shack - Next to entrance door - Internal panel	Fibre cement panels	1m²	A11588	No Asbestos Detected	-	-	-	-	-	-	None	Sampled through hole in external metal cladding	No ACM identified.	-	-
849	W084	External	North west and west of shack - Ground	Corrugated fibre cement debris	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	14m² impacted - sub surface	4 ACM fragments	0.2m2	104
853	W084	External	North / north east of shack - Ground	Corrugated fibre cement debris	30cm²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	6m² impacted - surface	No ACM identified.	-	-
847	W084	External	South and south west of shack - Ground	Corrugated fibre cement panels	14m²	A11590	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
848	W084	External	South and south west of shack - Ground	Corrugated fibre cement debris	3m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	12m² impacted - surface	No ACM identified.	-	-
851	W084	External	West of shack - Ground	Fibre cement panels	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-	No ACM identified.	-	-
852	W084	External	West of shack - Rear of outhouse - Ground	Corrugated fibre cement panels	2m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	20m² impacted - sub surface. S 30 49 138 E 115 11 524	No ACM identified.	-	-
855	W085	External	North of shack - Rear of BBQ - Ground	Fibre cement debris	40cm²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	3m² impacted - surface	No ACM identified.	-	-
856	W086	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
857	W087	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
861	W089	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
862	W090	External	South of shack - South west corner - Ground	Fibre cement debris	1m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	13m² impacted - sub surface	3 ACM fragments	0.1m2	14
863	W091	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
865	W093	External	North west of shack - Ground	Fibre cement debris	20cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	1m² impacted - surface	No ACM identified.	-	-
	W094	External	West of shack - Ground	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	Scattered ACM fragments.	2m2	162
866	W094	External	East of shack - East of fence - Ground	Fibre cement debris	85cm²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	6m² impacted - sub surface	No ACM identified.	-	-
868	W095 - former shack site	External	South - 30 49 258 East - 115 11 520	Fibre cement fence capping	2m-lin	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-	Capping removed	2m2	3200
869	W095 - former shack site	External	South - 30 49 258 East - 115 11 520	Corrugated fibre cement panels	2m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-	No ACM identified.	-	-
867	W095 - former shack site	External	South - 30 49 258 East - 115 11 520	Corrugated fibre cement panels	5m²	W99_007	No Asbestos Detected	-	-	-	-	-	-	None	-	Sample ID incorrect (should be W95_007)	-	-
871	W097 - former shack site	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
873	W098	External	South of shack - Ground	Fibre cement panels	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-	4 ACM fragments	0.2m2	38
	W098	External	North of shack - Ground	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	ACM sheeting	0.2m2	2000
872	W098	External	South of shack - Wall	Fibre cement panels	10m²	A11591	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
874	W098	External	South west of shack - Ground	Fibre cement debris	50cm²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	4m² impacted - sub surface	No ACM identified.	-	-
889	W099	External	West of shack - Driveway - Ground	Corrugated fibre cement debris	40cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	1m² impacted - surface	One isolated ACM fragment.	0.1m2	10
881	W099	External	East side of shack - Ground	Fibre cement debris	60cm²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	2m² impacted - sub surface	8 ACM fragments	0.3m2	83
876	W099	External	North side of shack - Ground	Fibre cement debris	20cm²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	4m² impacted - sub surface	No ACM identified.	-	-
875	W099	External	North side of shack - Wall	Fibre cement panels	10m²	A11593	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
897	W100	External	South east of shack - Ground	Corrugated fibre cement debris	70cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	2m² impacted - surface	No ACM identified.	-	-

Appendix D: Asbestos Register - Table 2

Item No.	Shack/Site	Location	Material Location	Material Description	Extent of Material (m² / m-lin)	Sample Number	Asbestos Type(s)	Friability	Surface Properties	Product Type	Condition	Fibre Release Risk	Disturbance Potential	Recommended Action	Comments	Senversa Comments	Area of Impact	Weight of ACM Removed (g)
900	W100	External	South east of shack - South east shed - West of shed - Ground	Corrugated fibre cement panels	12m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-	No ACM identified.	-	-
895	W100	External	West of shack - Ground (next to water tank)	Shadow-line fibre cement debris	2m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	12m² impacted - sub surface	No ACM identified.	-	-
894	W100	External	West side of shack - Ground	Shadow-line fibre cement debris	70cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	3m² impacted - sub surface	No ACM identified.	-	-
905	W101	External	East side of shack - Ground	Corrugated fibre cement debris	60cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	6m² impacted - sub surface	Approx. 10 ACM fragments	1m2	1147
904	W101	External	North east side of shack - Ground	Asbestos cement (Tilux) debris	40cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	2m² impacted - surface	No ACM identified.	-	-
903	W101	External	North side of shack - Entrance to cover area - Ground	Corrugated fibre cement debris	20cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	1m² impacted - surface	No ACM identified.	-	-
906	W101	External	South side of shack - Ground	Corrugated fibre cement debris	70cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	3m² impacted - sub surface	No ACM identified.	-	-
907	W101	External	South west of shack - Ground	Corrugated fibre cement debris	2m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	8m² impacted - sub surface (also under shack)	No ACM identified.	-	-
912	W102	External	East side of shack - Ground	Fibre cement debris	4m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	13m² impacted - sub surface	No ACM identified.	-	-
913	W102	External	West side of shack - Ground	Shadow-line fibre cement debris	1.5m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	9m² impacted - sub surface	No ACM identified.	-	-
926	W103	External	West side of south east shed - Ground	Fibre cement debris	0.75m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	3m² impacted - sub surface	8 ACM fragments	0.1m2	82
924	W103	External	South side of south east shed - Loose	Corrugated fibre cement panels	5m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-	3 medium sized ACM fragments	0.5m2	560
919	W103	External	North of shack - Ground (loose)	Fibre cement panels	2m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-	No ACM identified.	-	-
918	W103	External	North west of shack - Ground	Fibre cement debris	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	3m² impacted - sub surface	No ACM identified.	-	-
925	W103	External	South side of south east shed - Loose	Fibre cement panels	36m-lin	A11596	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
915	W103	External	West side of shack - Ground	Fibre cement debris	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	4m² impacted - surface	No ACM identified.	-	-
931	W105	External	South west of shack - North of shed - Ground	Fibre cement debris	60cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	3m² impacted - sub surface	4 ACM fragments	0.2m2	45
932	W105	External	South west of shack - South of shed - Ground	Fibre cement debris	30cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	2m² impacted - sub surface	No ACM identified.	-	-
945	W107	External	South east of shack - East of shack - Ground	Fibre cement debris	30cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	2m² impacted - surface	No ACM identified.	-	-
936	W107	External	Windows	Window putty	18m-lin	A11604	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
947	W108 - former shack site	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
948	W109 - former shack site	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
965	W110	External	North of shack - Driveway - Ground	Fibre cement debris	1m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	16m² impacted - sub surface	No ACM identified.	-	-
957	W110	External	South of shack - (lower) Infill panels	Corrugated fibre cement panels	8m²	-	Suspect Asbestos	Non-friable	Asbestos cement - good condition	Fibre Cement Products	Good condition, no damage	Very Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-	No ACM identified.	-	-
958	W110	External	South of shack - Top of water tank	Corrugated fibre cement panels	4m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Rare - Usually Inaccessible	Remove or Manage as per AMP	-	No ACM identified.	-	-
954	W110	External	South west of shack - Ground	Fibre cement debris	30cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	3m² impacted - sub surface	No ACM identified.	-	-
968	W111	External	North west of shack - Fence - Ground	Corrugated fibre cement debris	1m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	6m² impacted - sub surface	No ACM identified.	-	-
975	W111	External	South east of shack - South east of fence - Ground	Fibre cement debris	70cm²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	6m² impacted - surface	No ACM identified.	-	-
985	W113	External	North of shack - North of outhouse - Loose / ground	Fibre cement panels	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-	No ACM identified.	-	-
979	W113	External	North of shack - North of small shed - Ground	Fibre cement panels	2m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-	No ACM identified.	-	-
982	W113	External	West of shack - East of shed - Ground	Fibre cement panels	50cm²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-	No ACM identified.	-	-
980	W113	External	West of shack - Ground	Fibre cement panels	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-	No ACM identified.	-	-
981	W113	External	West of shack - South of shed - Ground	Fibre cement debris	30cm²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	2m² impacted - surface	No ACM identified.	-	-
987	W114	External	West side of shack - Ground	Fibre cement debris	70cm²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	10m² impacted - sub surface	Approx. 30 ACM fragments	2m2	124
988	W114	External	North west side of shack - Ground	Fibre cement debris	20cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	2m² impacted - sub surface	No ACM identified.	-	-
989	W114	External	South side of shack - Ground	Fibre cement debris	40cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	5m² impacted - sub surface	No ACM identified.	-	-
995	W117	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
996	W118 - former shack site	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1000	W119	External	South of shack - East side of water tank - Ground	Fibre cement debris	50cm²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	1m² impacted - surface	No ACM identified.	-	-

Appendix D: Asbestos Register - Table 2

Item No.	Shack/Site	Location	Material Location	Material Description	Extent of Material (m² / m-lin)	Sample Number	Asbestos Type(s)	Friability	Surface Properties	Product Type	Condition	Fibre Release Risk	Disturbance Potential	Recommended Action	Comments	Senversa Comments	Area of Impact	Weight of ACM Removed (g)
998	W119	External	South of shack - Ground	Fibre cement debris	40cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	2m² impacted - surface	No ACM identified.	-	-
997	W119	External	South west of shack - Ground	Fibre cement debris	20cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	1m² impacted - surface	No ACM identified.	-	-
1001	W120	External	North west of shack - South of shed - Ground	Fibre cement debris	20cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	1m² impacted - surface	No ACM identified.	-	-
1002	W121 - former shack site	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1008	W123	External	North / north west of shack - Ground	Fibre cement debris	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	2m² impacted - surface	No ACM identified.	-	-
1004	W123	External	North side of shack - Ground (drive way)	Fibre cement debris	2m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	30m² impacted - sub surface	No ACM identified.	-	-
1006	W123	External	South side of shack - Loose / ground	Fibre cement panels	0.5m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-	No ACM identified.	-	-
1007	W123	External	South west of shack - Ground	Fibre cement debris	2m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	14m² impacted - sub surface (also under shack)	No ACM identified.	-	-
1013	W125-6	External	West of shack - Ground	Fibre cement debris	40cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	5m² impacted - surface	No ACM identified.	-	-
1014	W127	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1020	W128	External	Sea container - Loose panel to west side	Fibre cement panels	1m²	W128_010	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
	W129	External	South of shack - Ground	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	3 ACM fragments	0.2m2	98
1024	W130	External	West side of shack - Ground	Fibre cement debris	70cm²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	12m² impacted - sub-surface	Approx. 25 ACM fragments.	6m2	875
1027	W133	External	East of shack - Ground	Fibre cement panels	90cm²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	3m² impacted - surface	No ACM identified.	-	-
1032	W135	External	South side of shack - Ground	Fibre cement debris	30cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	1m² impacted - surface	No ACM identified.	-	-
1039	W137	External	South of shack - Ground	Fibre cement debris	40cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	1m² impacted - surface	No ACM identified.	-	-
1041	W137	External	South west of shack - Ground	Corrugated fibre cement debris	2m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	6m² impacted - sub surface	No ACM identified.	-	-
1044	W138a	External	South side of south metal shed - Ground	Fibre cement debris	50cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	3m² impacted - sub surface	No ACM identified.	-	-
1045	W138a	External	West side of shack - Ground	Corrugated fibre cement panels	3m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	13m² impacted - sub surface	No ACM identified.	-	-
1046	W139a	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1049	W140	External	East of shack - Driveway / ground	Corrugated fibre cement debris	30cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	1m² impacted - surface	No ACM identified.	-	-
1051	W140	External	East of shack - Fence - Ground	Corrugated fibre cement debris	70cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	6m² impacted - sub surface	No ACM identified.	-	-
1061	W142	External	West of shed - Ground	Fibre cement debris	0.3m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	12m² impacted - sub surface	10 ACM fragments.	1m2	768
1059	W142	External	South of south shack - Ground	Fibre cement panels	2m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-	No ACM identified.	-	-
1064	W144	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1068	W145-6	External	South side of shack - ground	Fibre cement debris	1m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	Impacted area - approx. 24m² - surface	No ACM identified.	-	-
1066	W145-6	External	West side of shack - entrance to outhouse	Viny floor tiles	2.5m²	A11544	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1070	W148	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1074	W150	External	South east of shack - Ground	Fibre cement debris	3m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	28m² impacted - sub surface	No ACM identified.	-	-
1078	W151	External	South east of shack - Between shack and shed	Fibre cement debris	2m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	30m² impacted - sub surface	No ACM identified.	-	-
1081	W152	External	All around shack - 10m radius	Fibre cement debris	20m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Likely - Routinely accessed	Remove or Manage as per AMP	70m² impacted - sub surface	One isolated ACM fragment.	3m2	450
1086	W153	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1088	W154	External	North west of shack - Ground	Fibre cement debris	20cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Likely - Routinely accessed	Remove or Manage as per AMP	2m² impacted - sub surface	No ACM identified.	-	-
1089	W155	External	North east of shack	Vinyl/adhesive membrane debris	1m²	A11546	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1090	W155	External	North side of shack - 20m north on track to beach	Fibre cement debris	4m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	Impacted area approx 20m² - sub surface	No ACM identified.	-	-
1093	W157	External	South side of shed - Ground	Fibre cement debris	0.75m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Likely - Routinely accessed	Remove or Manage as per AMP	Also to drive way - 14m² sub- surface	Approx. 12 ACM fragments.	1m2	76
1095	W157	External	North side of shed - Ground (sand bed)	Fibre cement debris	0.5m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	3m² impacted - sub-surface	No ACM identified.	-	-
1097	W158 - former shack site	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1098	W159 - former shack site	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-

Appendix D: Asbestos Register - Table 2

Item No.	Shack/Site	Location	Material Location	Material Description	Extent of Material (m² / m-lin)	Sample Number	Asbestos Type(s)	Friability	Surface Properties	Product Type	Condition	Fibre Release Risk	Disturbance Potential	Recommended Action	Comments	Senversa Comments	Area of Impact	Weight of ACM Removed (g)
1101	W160	External	South east of shack - Ground	Fibre cement debris	0.5m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	6m² impacted - sub surface	Scattered ACM fragments.	1m2	281
1109	W163	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1110	W164	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1111	W165	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1112	W166	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1113	W167	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1114	W168 - former shack site	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1115	W169	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1116	W170	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1117	W171	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
	W172		-	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	No ACM identified.	-	-
1118	W173	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1119	W174	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1120	W175	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1129	W178	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1134	W179	External	East shack - Toilet - Wall	Fibre cement panels	2m²	A11616	No Asbestos Detected	-	-	-	-	-	-	None	Fibres on floor	No ACM identified.	-	-
1133	W179	External	South of shack - Ground	Corrugated fibre cement debris	30cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	1m² impacted - sub surface	No ACM identified.	-	-
1137	W180	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1138	W181	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1139	W182	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1140	W183	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1141	W184 - former shack site	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1142	W185	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1143	W186	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1145	W187	External	East of shack - Ground	Fibre cement debris	1.2m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	9m² impacted - sub surface	No ACM identified.	-	-
1147	W188 - former shack site	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1149	W189	External	South east of shack - South east of outhouse - Ground	Fibre cement debris	60cm²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	2m² impacted - sub surface	No ACM identified.	-	-
1151	W191	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1152	W192 - former shack site	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1153	W193	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1154	W194	External	South of shack - Drive way - Ground	Fibre cement debris	2.5m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	18m² impacted - sub surface	No ACM identified.	-	-
1156	W196	External	North side of shack - Ground	Fibre cement debris	40cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	1m² impacted - sub surface	No ACM identified.	-	-
1161	W196	External	South east of shack - East of shed - Ground	Fibre cement debris	10cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	1m² impacted - surface	No ACM identified.	-	-
1159	W196	External	South of shack - Ground (adjacent fence)	Corrugated fibre cement debris	40cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	2m² impacted - surface	No ACM identified.	-	-
1157	W196	External	South west side of shack - Ground	Fibre cement debris	80cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	2m² impacted - sub surface	No ACM identified.	-	-
1169	W199	External	West side of shack - Ground	Corrugated fibre cement debris	0.25m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	2m² impacted - surface	One isolated ACM fragment.	0.1m2	65
1167	W199	External	North east of shack - Ground	Fibre cement debris	30cm²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	5m² impacted - sub surface	No ACM identified.	-	-
1168	W199	External	West side of shack - Ground	Fibre cement debris	0.75m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	12m² impacted - sub surface	No ACM identified.	-	-
1171	W200	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	5 ACM fragments.	0.2m2	98

Appendix D: Asbestos Register - Table 2

Item No.	Shack/Site	Location	Material Location	Material Description	Extent of Material (m² / m-lin)	Sample Number	Asbestos Type(s)	Friability	Surface Properties	Product Type	Condition	Fibre Release Risk	Disturbance Potential	Recommended Action	Comments	Senversa Comments	Area of Impact	Weight of ACM Removed (g)
1172	W201	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1174	W203 - Under Parks & Wildlife control	External	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1175	W203 - Under Parks & Wildlife control	Internal	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1176	W204	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1177	W205 - former shack site	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1178	W206	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1180	W207	External	South side of shack - Ground (west of water tank)	Fibre cement debris	1m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	18m² impacted - sub surface	2 ACM fragments	0.2m2	9
	W207	External	East of shack - Ground	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	4 ACM fragments	0.5m2	50
1179	W207	External	South side of shack - Ground (next to water tank)	Fibre cement debris	40cm²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	2m² impacted - surface	No ACM identified.	-	-
1183	W209 - former shack site	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1184	W210 - former shack site	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1186	W212	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1187	W213	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1188	W214	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1189	W215	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1196	W218	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1197	W219	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1200	W221 - former shack site	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
	W222	External	-	No asbestos identified	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	No ACM identified.	-	-
	W223	External	-	No asbestos identified	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	No ACM identified.	-	-
1202	W224	External	South east side of shack - Side of water tank	Fibre cement debris	30cm²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	2m² impacted - surface	No ACM identified.	-	-
1203	W225 - former shack site	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1204	W226	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
	W227	External	-	No asbestos identified	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	No ACM identified.	-	-
1205	W228	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1206	W229	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1207	W230	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1208	W231 - former shack site	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1209	W232	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1213	W233	External	North east side of shack - Ground	Corrugated fibre cement debris	40cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	4m² impacted - sub surface	No ACM identified.	-	-
1216	W235	External	North west side of shack - Ground	Fibre cement debris	70cm²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	12m² impacted - sub surface	Scattered ACM fragments.	1m2	980
1217	W235	External	North west side of shack - North side of water tank structure	Fibre cement debris	70cm²	W15_W235_24	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1218	W236	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1220	W237	External	West side of shack - Ground	Fibre cement debris	20cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	3m² impacted - sub surface	No ACM identified.	-	-
1221	W238	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1222	W239 - Under Parks & Wildlife control	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
	W240	External	South-west of shack - Ground	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	Approx. 10 ACM fragments.	0.1m2	60
	W240	External	-	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	ACM pipe joiner	0.1m2	3000
1224	W241	External	West side of shack - Ground	Fibre cement debris	30cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	6m² impacted - surface	No ACM identified.	-	-

Appendix D: Asbestos Register - Table 2

Item No.	Shack/Site	Location	Material Location	Material Description	Extent of Material (m² / m-lin)	Sample Number	Asbestos Type(s)	Friability	Surface Properties	Product Type	Condition	Fibre Release Risk	Disturbance Potential	Recommended Action	Comments	Senversa Comments	Area of Impact	Weight of ACM Removed (g)
1226	W242	External	Driveway to shack - Ground	Fibre cement debris	50cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Likely - Routinely accessed	Remove or Manage as per AMP	4m² impacted - sub surface	No ACM identified.	-	-
1227	W243	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1228	W244	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1231	W245	External	North east side of shack - behind corrugated fibre cement fence	Fibre cement debris	60cm²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	Impacted area 15m² - sub surface	No ACM identified.	-	-
1233	W246	External	North east side of shack - Ground	Fibre cement debris	20cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	6m² impacted - sub surface	No ACM identified.	-	-
1234	W247	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1235	W248 - former shack site	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
	W249	External	-	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	11 ACM fragments	2m2	120
1237	W250	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1240	W252	External	North west side of shack - table	Viny floor tiles	2m²	A11543	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1251	W254	External	South east side of shack	Fibre cement debris	20cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	2m² impacted - surface	10 ACM fragments.	1m2	25
1252	W254	External	North east side of shack - Ground	Fibre cement debris	0.75m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	6m² impacted - sub surface	6 ACM fragments.	1m2	95
1256	W255	External	North east side of shack - Ground	Fibre cement debris	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	6m² impacted - sub surface	No ACM identified.	-	-
1254	W255	External	North east side of shack - Ground	Corrugated fibre cement panels	40cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	4m² impacted - sub surface	No ACM identified.	-	-
	W257	External	North-west of shack - Ground	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	2 ACM fragments	0.2m2	56
1258	W257	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1259	W258	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1261	W259	External	North of shack - Metal shed - Ground	Fibre cement debris	1.5m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	25m² impacted - sub surface	No ACM identified.	-	-
1265	W260	External	North east of shack - behind fence - ground	Fibre cement debris	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	2m² impacted - sub surface	No ACM identified.	-	-
1266	W261	External	North of shack - North east corner - Ground	Fibre cement debris	20cm²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	Adhered to concrete	No ACM identified.	-	-
1269	W262	External	Shed - Entrance - Ground	Fibre cement panels	5cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-	No ACM identified.	-	-
1267	W262	External	South west of shack - Ground	Fibre cement debris	20cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	1m² impacted - sub surface	No ACM identified.	-	-
1271	W264	External	North side of shack - Ground	Fibre cement debris	40cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	1m² impacted - surface	3 ACM fragments	0.2m2	42
1272	W264	External	North west side of shack - Ground	Fibre cement debris	20cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	1m² impacted - surface	No ACM identified.	-	-
1286	W267	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1287	W268	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
	W269	External	South-west of shack - Ground	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	5 ACM fragments	0.2m2	84
1288	W269	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
	W270	External	Surrounding shack - Ground	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	10 ACM fragments	5m2	76
1289	W270	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1290	W271	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1294	W273 - former shack site	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	4 ACM fragments	0.3m2	48
1296	W275	External	East side of shack - Fenced area - Ground	Fibre cement debris	20cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	1m² impacted - surface	No ACM identified.	-	-
1297	W276	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1298	W277	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1299	W278	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1301	W280 - former shack site	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1302	W281	External	North side of shack - Ground	Fibre cement debris	1.5m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	16m² impacted - sub surface	No ACM identified.	-	-
	W282	External	South-west of shack - Ground	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	1 small ACM fragment	0.2m2	65

Appendix D: Asbestos Register - Table 2

Item No.	Shack/Site	Location	Material Location	Material Description	Extent of Material (m² / m-lin)	Sample Number	Asbestos Type(s)	Friability	Surface Properties	Product Type	Condition	Fibre Release Risk	Disturbance Potential	Recommended Action	Comments	Senversa Comments	Area of Impact	Weight of ACM Removed (g)
1305	W283	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1311	W284	External	North of shack - Ground	Fibre cement debris	1.75m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	3m² impacted - surface	No ACM identified.	-	-
1309	W284	External	Perimeter of shack - Ground	Fibre cement debris	3m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	70m² impacted - sub surface	No ACM identified.	-	-
1307	W284	External	South east side of shack - Alfresco fence	Shadow-line fibre cement debris	30cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	4m² impacted - sub surface	No ACM identified.	-	-
1313	W285	External	South west of shack - Ground	Fibre cement debris	1.25m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	13m² impacted - sub surface	Isolated ACM fragment	0.2m2	62
1315	W285	External	East of metal shed - Ground	Fibre cement debris	0.75m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	15m² impacted - sub surface	10 ACM fragments	2m2	78
	W289	External	North of shack - Ground	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	5 ACM fragments	0.2m2	350
	W290	External	South-east of shack - Ground	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	2 ACM fragments	0.2m2	51
1324	W290	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1325	W291	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1326	W292	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1327	W293	External	East side of shack - ground	Fibre cement debris	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	7m² impacted - sub surface	No ACM identified.	-	-
1331	W295	External	East of shack - Ground	Fibre cement debris	20cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	1m² impacted - surface	No ACM identified.	-	-
1332	W295	External	South east of shack - Front of 2 sheds - Ground	Fibre cement debris	40cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	3m² impacted - surface	No ACM identified.	-	-
1330	W295	External	South of shack - Shed - East of shed - Loose	Fibre cement panels (insulated)	24m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-	No ACM identified.	-	-
1333	W296	External	South side of shack - Garage entrance - Floor	Beige vinyl floor covering	3m²	A11610	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1334	W296 - former shack site	South - 30 48 932 East - 115 11 927	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1338	W298 - Under Parks & Wildlife control	External	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	0	No ACM identified.	-	-
1340	W299	External	South of shack - Ground	Fibre cement debris	40cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	6m² impacted - sub surface	No ACM identified.	-	-
1339	W299	External	South west of shack - Under decking - Ground	Fibre cement debris	70cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	3m² impacted - sub surface	No ACM identified.	-	-
1341	W300	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1344	W302	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
	W303	External	-	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	Scattered ACM fragments.	2m2	942
1352	W304 - Under Parks & Wildlife control	Internal	Kitchen - Work top	Black vinyl covering	3m²	A11630	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1347	W304 - Under Parks & Wildlife control	External	North west of shack - Outside of fence perimeter	Corrugated fibre cement debris	3m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	17m² impacted - sub surface	One isolated ACM fragment.	2m2	<100
1354	W305	External	South of shack - Window cover panel	Fibre cement panels	2m²	A11611	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1359	W308	External	East side of shack - ground	Corrugated fibre cement debris	1.25m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	Impacted area - approx 5m²	No ACM identified.	-	-
1362	W310	External	South side of shack - Ground - Loose	Corrugated fibre cement debris	2m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	6m² impacted - sub surface	No ACM identified.	-	-
1363	W311 - former shack site	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1364	W312 - former shack site	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1373	W313	External	Around perimeter of shack	Fibre cement debris	12m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	40m² impacted - sub surface	10 ACM fragments	3m2	1300
	W313	External	West of shack - Ground	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	Scattered ACM fragments.	2m2	4100
1365	W313	External	East side - patio area walls	Fibre cement panels	24m²	A11536	No Asbestos Detected	-	-	-	-	-	-	None	Double skinned patched with different panels	No ACM identified.	-	-
1368	W313	External	South east of shack - ground	Fibre cement debris	6.5m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	Impacted area approx 30m² - sub surface	No ACM identified.	-	-
1375	W314	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1376	W315	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1378	W317	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1380	W318	External	South east of shack - ground	Fibre cement debris	90cm²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	8m² impacted - surface	No ACM identified.	-	-
1381	W319	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-

Appendix D: Asbestos Register - Table 2

Item No.	Shack/Site	Location	Material Location	Material Description	Extent of Material (m² / m-lin)	Sample Number	Asbestos Type(s)	Friability	Surface Properties	Product Type	Condition	Fibre Release Risk	Disturbance Potential	Recommended Action	Comments	Senversa Comments	Area of Impact	Weight of ACM Removed (g)
1391	W323	External	East side of shack - Behind shed	Corrugated fibre cement panels	4m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	20m² impacted - sub surface	No ACM identified.	-	-
1396	W323	External	East side of shack - behind shed	Corrugated fibre cement panels	4m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	Impacted area - approx - 20m² - sub-surface	No ACM identified.	-	-
1394	W323	External	East side of shack - Ground - Loose	Fibre cement panels	0.30m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-	No ACM identified.	-	-
1390	W323	External	North side of shack - Ground	Fibre cement debris	30cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	15m² impacted - sub surface	No ACM identified.	-	-
1395	W323	External	North side of shack - ground	Fibre cement debris	30cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	Impacted area - approx - 15m² - sub-surface	No ACM identified.	-	-
1392	W323	External	South side of shack - Canopy area	Fibre cement debris	6m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	Possible impact - Unable to access due to bee hive	No ACM identified.	-	-
1397	W323	External	South side of shack - canopy area	Fibre cement debris	6m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	Possible impact area to soil - unable to sample due to bee nests	No ACM identified.	-	-
1399	W324	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1400	W325 - former shack site	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1404	W326	External	Small shack - rear of W326	Fibre cement debris	12m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	Impacted area - approx 25m² - surface	No ACM identified.	-	-
1401	W326	External	South side of shack - Ground	Fibre cement debris	40cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	2m² impacted - sub surface	No ACM identified.	-	-
1403	W326	External	South side of shack - ground	Fibre cement debris	40cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	Impacted area - approx 2m² - surface	No ACM identified.	-	-
1405	W327 - former shack site	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1409	W330	External	South east of shack - Loose (next to freeloader super unit)	Fibre cement debris	0.5m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	2m² impacted - surface	Multiple scattered fragments.	0.2m2	980
1408	W330	External	South east of shack - Loose (next to freeloader super unit)	Fibre cement panels	4.5m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-	No ACM identified.	-	-
1411	W331 - former shack site	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1412	W332	External	West side of shack - Ground	Fibre cement debris	30cm²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	3m² impacted - sub surface	No ACM identified.	-	-
1415	W333	External	South east of shack - Ground	Fibre cement debris	20cm²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	1m² impacted - surface	No ACM identified.	-	-
1418	W334	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1423	W335	External	South west of shack - Old heater unit	Fibre cement debris	30cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	2m² impacted - surface	3 ACM fragments	0.2m2	75
1420	W335	External	North east of shack - Ground	Corrugated fibre cement debris	1m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	2m² impacted - sub surface	1 large ACM fragment	0.2m2	3200
1427	W339	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1429	W340	External	South east of shack - Loose	Fibre cement panels	2m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-	No ACM identified.	-	-
1430	W340	External	South east of shed - Trailer Loose	Fibre cement panels	2m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-	No ACM identified.	-	-
1434	W341	External	North east of shack - East of garage (entrance)	Fibre cement debris	80cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	12m² impacted - sub surface	No ACM identified.	-	-
1433	W341	External	North east of shack - South west of garage - Ground	Fibre cement debris	2m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	24m² impacted - sub surface	No ACM identified.	-	-
1439	W342	External	South of shack - Ground	Fibre cement debris	60cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	6m² impacted - sub surface	No ACM identified.	-	-
1444	W343	External	South west of large metal shed/shack - Loose	Fibre cement debris	30cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	2m² impacted - surface	3 ACM fragments	0.2m2	50
1442	W343	External	North east of shack - Driveway	Fibre cement debris	1.5m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	30m² impacted - sub surface	No ACM identified.	-	-
	W344	External	South-east of shack - Ground	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	5 ACM fragments	0.2m2	85
1446	W344	External	West side of shack - Ground	Fibre cement debris	1m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	Also to other side of fence - 8m² impacted - Surface	No ACM identified.	-	-
1448	W345 - Under Parks & Wildlife control	External	West of shack - Loose	Corrugated fibre cement panels	2m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Low damage / deterioration	Low	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-	2 ACM fragments	0.2m2	54
1447	W345 - Under Parks & Wildlife control	External	North east of shack - Loose	Corrugated fibre cement panels	4m²	W5_W345_016	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1451	W347	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1452	W348	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1453	W349	External	South side of shack - Loose	Fibre cement panels	2m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-	3 ACM fragments	0.1m2	89
1454	W349	External	North side of shack - Below small metal shed	Corrugated fibre cement panels	50cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	1m² impacted - surface	No ACM identified.	-	-
1456	W350	External	East side of shack - Ground	Fibre cement debris	40cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	4m² impacted - sub surface	5 ACM fragments	0.1m2	142
1457	W351	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-

Appendix D: Asbestos Register - Table 2

Item No.	Shack/Site	Location	Material Location	Material Description	Extent of Material (m² / m-lin)	Sample Number	Asbestos Type(s)	Friability	Surface Properties	Product Type	Condition	Fibre Release Risk	Disturbance Potential	Recommended Action	Comments	Senversa Comments	Area of Impact	Weight of ACM Removed (g)
1461	W352	External	West side of shack - Ground	Fibre cement debris	50cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	6m² impacted - sub surface	Approx. 30 ACM fragments	8m2	2800
1462	W352	External	North side of shack - Ground	Corrugated fibre cement panels	70cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	9m² impacted - sub surface	No ACM identified.	-	-
1459	W352	External	South side of shack - Ground	Corrugated fibre cement panels	1.5m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	Moderate damage / deterioration	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	-	No ACM identified.	-	-
1460	W352	External	West side of shack - Ground	Fibre cement shuttering	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	3m² impacted - sub surface	No ACM identified.	-	-
1464	W353	External	South side of shack - Ground	Fibre cement debris	40cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	6m² impacted - sub surface	5 ACM fragments	0.2m2	86
1463	W353	External	North side of shack - Ground	Fibre cement debris	40cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	9m² impacted - sub surface	No ACM identified.	-	-
1465	W354	External	North west of shack - Loose	Fibre cement panels	1m²	-	Suspect Not Asbestos	-	-	-	-	-	-	Sample/analyse or Manage as per AMP	-	No ACM identified.	-	-
1471	W355	External	South of shack - South of fence - Ground	Fibre cement debris	40cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	surface (on corrugated metal)	1 ACM fragment	0.1m2	10
	W355	External	Sout of shack - Ground	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	3 ACM fragments	0.1m2	60
1475	W355	External	East side of shack - Ground	Fibre cement debris	30cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	3m² impacted - surface	No ACM identified.	-	-
1479	W355	External	North east of shack - Ground	Fibre cement debris	20cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	2m² impacted - sub surface	No ACM identified.	-	-
1481	W356 - former shack site	External	South - 30 49 070 East - 115 11 701	Fibre cement debris	1.5m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Rare - Usually Inaccessible	Remove or Manage as per AMP	30m² impacted - sub surface	Large number of ACM fragments.	2m2	3400
1485	W359	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
1486	W360	-	-	No asbestos identified	-	-	No Asbestos Detected	-	-	-	-	-	-	None	-	No ACM identified.	-	-
	W361	External	South east of shack - Ground	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	9 ACM fragments.	0.1m2	5
	W361	External	East of shack - Ground	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	Approx. 25 ACM fragments.	0.2m2	60
	W361	External	North east of shack - Ground	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	12 ACM fragments.	1m2	120
1492	W364	External	North east side of shack - Ground	Fibre cement debris	40cm²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	1m² impacted - surface	2 ACM fragments	0.2m2	62
1493	W364	External	West side of shack - Ground	Fibre cement debris	1m²	-	Suspect Asbestos	Non-friable	Deteriorating asbestos cement	Fibre Cement Products	High Damage, delamination, debris	Moderate	Unlikely - Occasionally accessed	Remove or Manage as per AMP	2m² impacted - sub surface	8 ACM fragments	0.5m2	995
	WM10-1288	Track	-	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	6 ACM fragments	0.2m2	62
	WM15-1329	Track	-	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	9 ACM fragments.	1m2	64
	WM2-1041	Track	-	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	4 scattered ACM fragments.	0.3m2	62
	WM2-1059	Common Area	-	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	13 ACM fragments	11m2	142
	WM2-1060	Track	-	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	Approx. 20 ACM fragments	9m2	503
	WM2-1087	Track	-	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	Approx. 20 ACM fragments	5m2	125
	WM3-1076	Track	-	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	Surface ACM fragment	0.3m2	90
	WM4-1098	Track	-	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	8 ACM fragments	4m2	200
	WM4-1099	Track	-	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	4 ACM fragments	3m2	300
	WM4-1100	Common Area	-	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	5 ACM fragments	0.2m2	103
	WM4-1105	Track	-	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	One ACM fragment	0.1m2	5
	WM4-1111	Track	-	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	Approx. 10 ACM fragments.	0.4m2	<100
	WM4-1113	Track	-	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	Scattered ACM fragments.	0.3m2	97
	WM4-1138	Track	-	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	3 ACM fragments	0.2m2	98
	WM5-1049	Track	-	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	Scattered ACM fragments.	3m2	700
	WM5-1054	Track	-	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	ACM fragment	1m2	<100
	WM5-1166	Track	-	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	Approx. 12 ACM fragments.	4m2	325
	WM5-1169	Track	-	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	5-6 ACM fragments	3m2	54
	WM5-1171	Track	-	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	Approx. 20 ACM fragments	3m2	948
	WM5-1195	Track	-	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	4 ACM fragments	0.2m2	100

Appendix D: Asbestos Register - Table 2

Item No.	Shack/Site	Location	Material Location	Material Description	Extent of Material (m^2 / m-lin)	Sample Number	Asbestos Type(s)	Friability	Surface Properties	Product Type	Condition	Fibre Release Risk	Disturbance Potential	Recommended Action	Comments	Senversa Comments	Area of Impact	Weight of ACM Removed (g)
	WM6-2368	Common Area	-	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	One isolated ACM fragment.	0.1m2	9
	WM6-2369	Common Area	-	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	Two isolated ACM fragments.	0.1m2	30
	WM6-2370	Common Area	-	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	One isolated ACM fragment.	0.1m2	20
	WM6-31	Track	-	Fibre cement debris	-	-	Suspect Asbestos	-	-	-	-	-	-	-	-	7 scattered ACM fragments.	15m2 inspected, 1m2 raked	300

Appendix E: Waste Disposal Certificates

SHIRE OF NORTHAM

ABN: 42 826 617 380

Old Quarry Road Northam WA 6401

Weighbridge Docket: 173480

In: 25/Aug/16 10:32
Out: 25/Aug/16 10:57
Time on Site: 0:25
TransactionType: Truck in/out

Vehicle: Y7099
Contractor: Avon Waste

Notes: Wedge Island

Product: Asbestos

Customer: AVON WASTE
Address:
York WA 6302

McElhinney Consultancy Pty Ltd.

Phil McElhinney
0429 170 657
philmcelhinney@bigpond.com
Asbestos Hook Bin
Wedge Island.

Manual Gross:	16.40 t
Manual Tare:	16.04 t
Nett:	**0.36 t**

Signature of Weigher : . . . . . .

Appendix F: Curriculum Vitae’s

Sarah Horgan

Principal Environmental Scientist

Qualifications & Certifications

BSc (Environmental Science), Murdoch University, 2003

Career Profile

Sarah has ten years' experience working in the contaminated land industry in Western Australia. Sarah has specialist working knowledge of WA, national regulatory requirements, standards and processes for the assessment and treatment of contaminated sites, having worked on a range of both large and small investigations during her career.

Sarah began her career within local government for the City of Rockingham, Perth, where she received a broad grounding in environmental management and environmental planning and practical approaches to mitigating environmental risks.

After working in Local Government Sarah began her consulting career at 360 Environmental where she was responsible for project management and report compilation, field assessment and monitoring.

Sarah joined AECOM in July 2010 where she has continued to be involved in all aspects of contaminated site assessments as well as the role of Auditor's Assistant for WA accredited Contaminated Site Auditors on a range of projects.

Expertise

Contaminated site assessments and remediation

Contaminated sites auditing

Project management

Acid Sulphate Soils

Key Industry Sectors

Property development

Government – local, state and federal

Major infrastructure projects

Mining

Oil and gas

Defence

Employment History

May 2016 (current): Senversa Pty Ltd

Jul 2010 to Apr 2016: AECOM Australia Pty Ltd

Nov 2006 to Jul 2010: 360 Environmental

Memberships

Australian Land and Groundwater Association

Australian Contaminated Land Consultants Association

Professional Training & Development

- Senior First Aid, St John Ambulance
- Construction Safety Awareness Training Card
- Certificate II in Transport and Distribution (Road Transport)
- HAZWOPER 24 Hour Training
- RMS Operate and Maintain a Four Wheel Drive Vehicle
- Chamber of Commerce and Industry Managing OSH, JSA, Risk Assessment and Accident Investigation Training

Project Experience

ENVIRONMENTAL SITE ASSESSMENT

- **LandCorp Dwellingup Detailed Site Investigation -** Project Manager and report author for the assessment of a former Depot in Dwellingup. The investigation included a Preliminary Site Investigation, preparation of a Sampling and Analysis Plan and Detailed Site Investigation which were all subject to DER Accredited Auditor Review. Key contaminants of concern at the site include herbicides in groundwater and Aqueous Film Forming Foam (AFFF).
- **Iluka Resources North Capel Dry Plant Detailed Site Investigation -** Project Manager for the project as well as field lead for the field investigations which included soil and groundwater sampling to ascertain the level of residual radiation as a result of operations as well as a gamma survey across a large portion of the mine site. Sarah also authored the Detailed Site investigation Report which was subject to Auditor review.
- **RAAF Base Pearce – Fuel Farm Decommissioning-** Project Manager for a Detailed Contaminated Site Investigation at a Defence Fuel Farm post decommissioning to ascertain the level of hydrocarbon contamination prior to the site's redevelopment. Sarah was the main client contact throughout the project and lead report author.
- **Cockatoo Island Detailed Site Investigation -** Sarah played a key role in a phased contamination assessment across the Cockatoo Island mine site with the objective to release the contamination liability from the Client prior to sale of the Site. Sarah was the main author of the Preliminary and Detailed Site Investigation, Site Management Plan and was the lead supervisor for the site works.
- **Defence Regional Annual Water Quality Monitoring Program 2013-2014, 2014/2015 and 2015/2016-** Project Manager for the three consecutive annual Defence Regional Water Quality Monitoring programs across eight Defence Bases in Western Australia. She also coordinated the creation of consolidated data spreadsheets for each of the Defence bases that enabled assessment of historical and current groundwater monitoring data.
- **GatewayWA Perth Airport and Freight Access Project -** The GatewayWA Project involves a major upgrade to the road network surrounding Perth Airport and the freight and industrial hubs of Kewdale and Forrestfield. Sarah was part of the GatewayWA environmental team and was responsible for Acid Sulfate Soils (ASS) field works and coordination as well as provision of high level technical advice with regards to ASS management to the wider Gateway Project team.

ENVIRONMENTAL AUDTING – CONTAMINATED LAND

- **Water Corporation – Albany Pump Station No.19 -** Key issues at the Site were assessment of impacts from nutrients and asbestos management in line with Department of Health Guidelines. The detailed site investigation field works are proposed to commence in June 2015 with the objective to reclassify the Site as "Decontaminated".
- **Kings Square Development Audit Northbridge -** The project conducted in a phased approach from Kings Square 1 through to Kings Square 5. Key issues at the Site were metal contamination in the soil as well as Acid Sulfate Soil Management. Large scale dewatering occurred during each phase of the development. Two Mandatory Audit Reports have been written for the development which has resulted in the success reclassification of "Decontaminated "for KS1- KS4.
- **Kewdale Freight Terminal Audit -** Key issues at the Site included asbestos in soils and metal and hydrocarbon contamination in groundwater. At the completion of soil investigation and remedial works the Site was reclassified by the DER as "Remediated for restricted use".

PHILLIP McELHINNEY

Areas of Expertise	Safety, Construction, Demolition and Mining Industry
Education	Higher School Certificate, NSW Certificate IV Safety Practitioner IFAP, WA
Nationality	Australian
Contact Numbers	Mobile - 0429170657

Career Summary

Mr McElhinney has over 35 years in the construction, civil, demolition and mining industries as a rigger, scaffolder, crane drive and the past 15 years as a supervisor, construction manager and site manager working on most major projects including:

* *Yandi - Area C*
* *Western Mining upgrades - Leonora, Leinster, Kambalda*
* *Burrup Peninsula LNG Projects Phases 1, 2 & 3*
* *BHP Port Hedland Expansion Projects Phases 2 and 3*
* *Worsley Alumina Upgrade*
* *Alcoa Liquor Burning Project- Wagerup*
* *Mt Keith Construction Project*
* *Kalgoorlie Consolidated Construction Project*
* *Bunbury Power Station Demolition Project*
* *BHP Beenup Mine Project*
* *Iluka Resources Demolition Project*
* *Noalimba Redevelopment Project*
* *ECU Churchlands Demolition/Remediation Project Stages 1,4,5,6*
* *RWV Redevelopement Stages 1,2,3,4,5*
* *Cockburn Commercial Park Stages 1,2,3,4,5,6*
* *Perrylakes Stage 1,2a,2b,3*

Qualifications	Status
Lecturing Experience in OH & Safety - TAFE	2007-2008
I.F.A.P Qualified Safety Practitioner (Cert IV)	Obtained 1998
National Forklift Certificate – High Risk Licence	*2010
WA 4WD Emergency Response Training Certificate	2010
Certificate of Merit from the Royal Humane Society of Australia (Bravery)	1994
WA Industrial Rope Access and Tower Rescue Techniques Certificate	2006
Lecturing Experience at TAFE in Rigging and Scaffolding	2006
Elevated Work Platform Certificate – High Risk Licence	*2010
Alumni Member of IFAP (Industrial Foundation for Accident Prevention)	1995
National Boom Lift Operator Certificate – High Risk Licence	*2010
WA Advanced PADI Diving Ticket	2009
National Advanced Scaffold Certificate – High Risk Licence	*2010
Restricted Crane Certificate – High Risk Certificate	*2010
WA Senior First Air Certificate	Expires 2012
National Advanced Riggers Certificate – High Risk Certificate	*2010
National Dogman Certificate – High Risk Certificate	*2010

*RA,SA,LF,WP,CN,CV,C2 originally obtained 1986

Career Detail

Construction – Supervision / General Rigging/Scaffolding

Project	*Perth/ WA*
Date:	2008 - Ongoing
Company :	Intergrated
Position:	Casual Rigger/Scaffolder/Crane Driver
Reporting to:	CanningVale Division

Main Duties:
Performing duties that are indicative of my experience and (general rigging/scaffolding usually) qualifications on a casual basis and when it fits in with my consultancy work, mainly for Marine & Civil re-fitting barges for the Gorgan Project.

Project	*Perth/ WA*
Date:	2005 - 2008
Company :	Roam/LeBlanc
Position:	Rigging/Scaffolding Supervisor/Hands On
Reporting to:	Project Manager

Main Duties:
Responsible for all rigging/scaffolding in the maintenance/erection of communication towers in Perth, remote sites of WA (Rio Tinto/BHP/Fortesque Metals sites) and most recently Fiji

Project:	*Yandi - Area C*
Date:	2004 - 2005
Company :	Monadelphous
Position:	Area Manager
Reporting to:	Project Manager

Main Duties:
Responsible for the day to day running of Area C which included the erection of conveyors, transfer towers, crushers and the erection of 300t (approx.) of steel Manpower under my control included a rigging/scaffolding supervisor, mechanical supervisor and 125 personnel.

Project:	*Kalgoorlie*
Date:	2001 - 2002
Company :	Kiam
Position:	Rigging/Scaffolding Manager
Reporting to:	Graham Stevenson – General Manager

Main Duties:
In charge of the day to day running of a scaffolding/rigging division in mining construction, maintenance and shutdown type work on all WMC (Western Mining) sites in Kalgoorlie and surrounding areas. The role also required to be responsible for all budgets, cost control, estimating and tendering of the division with safety a priority. Also developed the scaffolding procedures and policies for the company which were incorporated in the companies Safety Management Plan manual. These procedures were audited independently by Safety Skills Training and were deemed to be the benchmark all scaffolding companies should try to attain. Received recommendations from clients (refer referees)

Project:	*Christmas Island*
Date:	1999
Company :	Ausclad
Position:	Site Supervisor/Safety Advisor
Reporting to:	Stuart Kenny – Director
	Kevin Bain - Director

Main Duties:
Supervising sub-contract roof carpenters on the project and erecting all scaffold to complete these works.

Project:	*Lord Street Bridge/Estimating (Head Office)*
Date:	1999 - 2000
Company :	Ausclad
Position:	Rigging and Scaffolding Supervisor
Reporting to:	Stuart Kenny – Director
	Kevin Bain

Main Duties:
Erecting a bridge using a 240T hydraulic Lieberr crane. This was achieved under shutdown conditions and working within .5m of high voltage power lines. Estimating in (scaffolding) head office for various projects.

Project:	*Murrin Murrin Nickle Min Construction - Murrin Murrin*
Date:	1999
Company :	Ausclad
Position:	Scaffolding Supervisor (Hands on)
Reporting to:	Stuart Kenny – Director
	Kevin Bain - Director

Main Duties:
Supervising up to twenty five scaffolders in erecting over 450T of scaffolding in the installation of cladding and insulation of pipework and equipment without a lost time injury.

Project:	*Port Hedland Portion 2 Nelson Point Upgrade*
Date:	1997 - 1999
Company :	Transfield Construction
Position:	Construction Manager
Reporting to:	Jim Petricola – Project Manager

Main Duties:
Overall co-ordination of the day to day running of the project including 3 Supervisors & supervising subcontractors and supervision of all rigging, scaffolding work

Project: *Kiln 6 Project -*

Cockburn Cement

Date:	1995 - 1996
Company :	Transfield Construction
Position:	Construction Manager
Reporting to:	Jim Petricola – Project Manager

Main Duties:
Overall co-ordination of the day to day running of the project including 140 personnel of various disciplines. Also responsible for all rigging studies, supervising subcontractors on and offsite, and organising the cranage which included a 4100 S3 Ringer, a 4600 Tower S6 and a 4100 S2. Over 8000 lifts were performed without incidents and were done to strict JSA QA/QC procedures.

Project:	*Liquor Burner Project - Alcoa Wagerup*
Date:	1995 - 1995
Company :	Transfield Construction
Position:	Rigging/Scaffolding L/H
Reporting to:	John Manfredi – General Foreman

Main Duties:
Co-ordinating a crew in erecting approximately 350t of steel and piping, as well as the construction of an electrostatic precipitator and kiln including all heavy lifts in a hands on capacity.

Project	*Bunbury & Surrounding Districts*
Date:	1990 - 1995
Company	Sub-Contractor
Position:	Self Employed

Main Duties:
Sub contract rigging/scaffolding/crane driving and supervising for various companies in the region.

Civil Redevelopment / Remediation / Demolition Projects

Projects:

Swan Brewery Demolition/Earthworks
2014-March 2015 - Ongoing Client Linc Property Group
Monitoring the demolition (Brewery) for compliance to the Safety Management Plan, Codes of Practice, Regulations and Australian Standards. Also remediation works, Emu Bob & General Asbestos removal works

Craigie (Former) High School Redevelopement
2013 -2015 Client (Landcorp) JDSI Engineering Consultants
Emu Bob (5ha) to DOH Guidelines, Monitoring the earthworks for compliance to the Site Management Plans including Stakeholder Management which included but not limited to; Resident & Council Liaison, Local Schools & Churchs & other site Consultants

PerryLakes Demolition & Redevelopement Stages 1,2a, 2b,& 3
2011 – 2014 Client Landcorp & VDM
Emu Bob to DOH Guidelines. Monitor the works for compliance to the Site Management Plans and compliance to the relevant Codes of Practice, Regulations, Guidelines and Australian Standards. Works included monitoring soil remediation (3,000 m3) and liaising with the Tenants (Perth Wildcats, Western Force & WA Athletics) including Town of Cambridge Council. Demolition works included the Main Stadium, Basketball Centre & Rugby Clubhouse. Asbestos removal included both Friable and PACM material with over 150t of PACM material removed from the ***The***

Springs Redevolpment Stages 1, 2 & 3
2008 – 2010 Client (Landcorp) VDM Engineering
Emu Bob to DOH Guidelines. Monitor the works for compliance to the Site Management Plans and compliance to the relevant Codes of Practice, Regulations, Guidelines and Australian Standards. Works included monitoring soil remediation (2,000 m3), Tree Protection monitoring, Stakeholder Management and liaising with other consultants

Minim Cove Redevelopment Stages 1,2 & 3
2007-2013 Client (Landcorp) GHD
Monitor the works for compliance to the Site Management Plans and compliance to the relevant Codes of Practice, Regulations, Guidelines and Australian Standards. Works included Stakeholder Management and liaising with other consultants.

Commonwealth Tank Demolition/Remediation Project *- October 2008 - June 2009 - Client: (Landcorp) Ewings/VDM*
Monitor the works for compliance to the Site Management Plans and compliance to the relevant Codes of Practice, Regulations, Guidelines and Australian Standards. Works included Stakeholder Management and liaising with other consultants. Demolition works included the removal of 3 petrochemical tanks with capacities of 100,000 litres each. Soil remediation consisted with the remediation of the tank pads where I was able to have the initial Class 3 soil classification reduced to Class 1 by recommending further testing being performed to confirm the initial classification.

Fremantle Museum Demolition/Remediation Project
2009-2010 Client (Landcorp) Ewings/VDM
Monitor the works for compliance to the Site Management Plans and compliance to the relevant Codes of Practice, Regulations, Guidelines and Australian Standards. Works included Stakeholder Management and liaising with other consultants. Demolition works included the removal of 3 main building structures which were mainly cladded with Asbestos sheeting.3 petrochemical tanks with capacities of 100,000 litres each. Soil remediation consisted with the removal of 2,000m3 of contaminated soils and Emu Bob to DOH Guidelines

Rockingham Waterfront Village – Stages 1,2,3 & 5
2005 -2009 – Client: Landcorp
Monitor the works for compliance to the Site Management Plans and compliance to the relevant Codes of Practice, Regulations, Guidelines and Australian Standards. Works included Stakeholder Management and liaising with other consultants. Demolition works included the removal of the main council building and pre-primary/child daycare structures which were mainly cladded with Asbestos sheeting.

Cockburn Commercial Park – Stages 1,2,3,4,5,6 –
2006 – 2009 Client (Landcorp) Ewings/VDM
Monitor the earthworks works for compliance to the Site Management Plans and compliance to the relevant Codes of Practice, Regulations, Guidelines and Australian Standards. Works included Stakeholder Management and liaising with other consultants.

South Beach Redevelopement Projects - Stages 1 & 2
2006 – 2009 Client (Landcorp) Ewings Consulting Engineers
Monitor the earthworks works for compliance to the Site Management Plans and compliance to the relevant Codes of Practice, Regulations, Guidelines and Australian Standards. Works included Stakeholder Management and liaising with other consultants. Soil remediation consisted of over 3,000m3 for lead & asbestos contamination

Edith Cowan University, Churchlands
Demolition/Remediation/Hazmat Inspections Stages 1,4,5 & 6
2006 - 2009 - Client: (Landcorp) Ewings Consulting Engineers
Monitor the earthworks works for compliance to the Site Management Plans and compliance to the relevant Codes of Practice, Regulations, Guidelines and Australian Standards. Works included Stakeholder Management and liaising with other consultants. Soil remediation consisted of over 6,000m3 for pestisides contamination Demolition works included the total removal of the University (biggest metro demolition works ever done at that time) which included 8 main building structures.

ANI Bradkien Hazmat Inspections/Remediation/Demolition Project
2007 - June 2008 – Client: Stockland
Works included the remediation of over 21,000m3 of lead contaminated soils and the demolition of the (former) ANI factory. These works were highly political and were monitored by both the residents & council 24/7. Soils were only allowed to be stockpiled in 100m3 stockpiles for validation testing and covered each afternoon in a permeable cloth and wet down by reticulation throughout the day/night.

Demolition Manager Projects

Project:	*Iluka Resources Demolition/Salvage Project Eneabba*
Date:	2002 – 2004
Company :	J & P Industries
Position:	Demolition Manager/Safety Co-Ordinator
Reporting to:	Peter Tomachov - Director

Main Duties:
Responsible for the day to day running of the project on behalf of J & P Industries in the demolition salvage of redundant equipment which included the "induced collapse" of 4 building structures and the salvage of equipment valued at over $2,000,000. Removal of underground services, hazardous materials including asbestos piping/sheeting/roofing materials

Also responsible for all site safety requirements which included performing over 50,000 man hours without a lost time injury.

Projects:	*Various*
Date:	2000 – 2004
Company :	J & P Industries
Position:	Demolition Manager/Safety Co-Ordinator
Reporting to:	Peter Tomachov - Director

Main Duties:
Responsible for the day to day running of the demolition company on behalf of J & P Industries in the demolition/salvage of redundant equipment/structures on various projects in the South West Region. Works also included removal of underground services, hazardous materials including asbestos piping/sheeting/roofing materials & contaminated soils

Also responsible for all site safety requirements which included performing over 500,000 man hours without a lost time injury.

Project:	*Bunbury Power Station*
Date:	1999 - 2000
Company :	J & P Industries
Position:	Team Leader
Reporting to:	Peter Tomachov - Director

Main Duties:
Day to day supervision of six personnel in the demolition of the Bunbury Power Station as the main contractor to Trio Demolition which included the "induced collapse" of 3 building structures, 4 chimney stacks over 28 metres high and 4 precipitators all without a lost time injury. Also included the removal of hazardous materials including asbestos piping/roofing and sheeting materials.

Commercial Experience

Date: 1999 - 2000
Company : Ausclad
Position: Scaffold Estimating (Contract)
Reporting to: Lothar Arnold – Manager (Ph: 9439 1934)

Main Duties:
Estimating for tender purposes on projects throughout Australia and overseas.

Date: 1998
Company : IFAP
Position: CIV Safety Practitioner Course

Date: 1995 – 1996
Company : Transfield Construction
Located: Head Office Commercial Division
Main Duties:
Construction methodology, estimating of rigging and scaffolding for tender purposes, tender presentations, negotiating with sub-contractors.

Restricted Asbestos Removal Experience

Client – Landcorp 2010 - Ongoing
Various sites in WA
Clean up general waste/hazardous materials on Landcorp owned properties throughout WA including PT Hedland/Karratha etc
Client – RPS Environmental/Landcorp 2010-Ongoing
Coolbellup Primary School Hazmat Inspection,-Emu Bob – 2ha
Greenwood Primary School Emu Bob – 2.2ha
Hainsworth Primary School Emu Bob – 1.5ha
Wood St Museum Hazmat Inspection Emu Bob – 2.3ha
West Swan – Area L,M,N Emu Bob – 2ha
West Swan – Lot 507 Asbestos Fence/Piping Removal
West Swan – Enclave 2 Asbestos Fence/Piping Removal
Craigie (Former) High School Emu Bob – 5ha
Cambawarra Primary School Emu Bob – 2.5ha

Client – GHD Environmental/Landcorp 2010-Ongoing
Swanboune – Emu Bob 2015
Bluff Point Geraldton Emu Bob 2015
Perrylakes Basket ball (Former) Hazmat Inspection/Compliance-Emu Bob – 1.8ha
Perrylakes Scoreboard Hazmat Inspection/Removal
The Springs – Asbestos piping/sheeting removal
The Springs – Emu Bob – 5.5ha
Woodvale Chianti – Emu Bob – 5.7ha
Collie – Emu Bob 1.5ha

Client – Linc Group 2013 – Ongoing
Lot 50 South – PACM/Inert waste cleanup/Emu Bob
Lot 50 North – Excavate/Screen 8,000m3 of inert/PACM waste

Wangarra - Various areas – Removal of asbestos piping (3km approx.)
Wangarra - Various Areas – Emu Bobs/clean ups
Swan Brewery – Emu Bob 25ha. Removal of PACM piping & underground services

REFEREES:

Warren Phillips – Senior Project Manager – Landcorp	Ph – 9482 7499 Mb - 0400668237
Mario Claudio – Business Manager – LandCorp	Ph - 9482 7499 Mb – 0417939938
Monica Craig – Environmental Scientist GHD	Ph - 62228690
Ben Lisle - Director Linc Property Group	Mb - 0412563875
David Paz - Project Manager	Mb - 0409686377

Government of **Western Australia**
Department of **Commerce**

WORKSAFE

Restricted Asbestos Licence

WORKSAFE

MCELHINNEY CONSULTANCY PTY LTD

Licence Number WARA1512

This Restricted Asbestos Licence is issued pursuant to Regulation 5.44(2) of the *Occupational Safety and Health Regulations 1996* and authorises **MCELHINNEY CONSULTANCY PTY LTD** to carry out Restricted asbestos work in accordance with the *Occupational Safety and Health Act 1984, the Occupational Safety and Health Regulations 1996* and in accordance with the conditions endorsed on the reverse side of the Licence.

Date of Expiry: 4 July 2017

Robyn Parker
Director, Business Services
WORKSAFE DIVISION OF COMMERCE

Appendix G: Community Leaflet

Government of Western Australia
Department of Parks and Wildlife

Detailed Site Investigation of Soil and Asbestos Remediation Work – Wedge and Grey Reserves

The asbestos survey of shacks at Wedge and Grey carried out by the Department of Parks and Wildlife in 2015, revealed that more than half (290) of the shack sites have suspected asbestos containing material (ACM) fragments in soil. One of the recommendations in the Preliminary Asbestos Management Plan prepared by Aurora Environmental is that a Detailed Site Investigation (DSI) of soil be carried out. A decision was made by the Department that a remedial site investigation will be done. This approach is supported by the Department of Health and the Department of Environment Regulation, Western Australia.

Commencing in early June 2016, a contractor will be undertaking a program of identifying and removing asbestos fragments from soils in the Wedge and Grey Reserves in the first stage of a program to remove asbestos from these reserves. This remediation work involves raking soil and or handpicking (collecting) and removing asbestos fragments at identified sites.

It is recommended that shack owners roll up any old carpet or other materials that may be covering the ground areas around their shack. In the event that carpets are found in place, the carpet will be lifted to check for asbestos fragments in the soil. Carpets will be replaced as best as possible to their original position but given the condition of some carpets this may not be possible. Where other large objects prevent a proper assessment of the soil, Parks and Wildlife staff may require shack owners to move these materials.

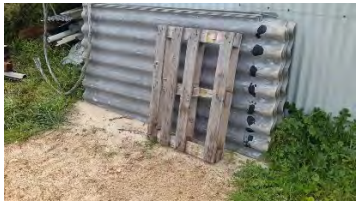
Please note that the remediation process to remove asbestos in soil at Wedge and Grey is only a first step. Further work may be required in the future to remove more ACM fragments in soils as it becomes exposed due to weathering or other disturbances to soil.

Further information is provided at http://www.dpaw.wa.gov.au/management/wedge-grey

Appendix H: Summary of Outstanding Records

Summary of Grey Settlement 'Outstanding' Occurrences

Location Coordinates	Map Number	Shack ID	Description	Approximate Area of Impact	Laboratory Results	Photo
E: 321330.1707 N: 6605969.3422	2	28	Large Surface Area and Buried ACM fragments scattered on surface and possibly buried around the western and southern walls of shack.	30 m^2	G2_G28_26 Asbestos Detected Chrysotile + Amosite	
E: 321376.487 N: 6605967.8529	1	32a	Large Surface Area and Buried Large ACM fragments scattered on surface and some partially buried. One large piece of sheeting.	20 m^2	G1_G32_016 Asbestos Detected Chrysotile+ Amosite + Crocidolite	
E: 321372.3451 N: 6606125.1063	2	50	Sheeting Stockpile of ACM sheets	2 m^2	G2_G50_20 Asbestos Detected Chrysotile+ Amosite	

Location Coordinates	Map Number	Shack ID	Description	Approximate Area of Impact	Laboratory Results	Photo
E: 321260.1426 N: 6606198.8535	2	56	Sheeting Stack of ACM sheeting	2 m^2	G2_G56_23 Asbestos Detected Chrysotile + Crocidolite	
E: 321388.2764 N: 6606196.8906	2	85	Sheeting ACM sheeting against shed.	4 m^2	G2_G85_018 Asbestos Detected Chrysotile + Amosite	
E: 321388.2764 N: 6606196.8906	2	85	Large Surface Area and Buried ACM fragments scattered on surface and possibly buried.	100 m^2	G2_G85_019 Asbestos Detected Chrysotile + Amosite	

Location Coordinates	Map Number	Shack ID	Description	Approximate Area of Impact	Laboratory Results	Photo
E: 321262.0523 N: 6606491.5216	4	99	Sheeting Multiple suspect flat and rippled ACM sheets	10 m^2	Not sampled due to beehive	
E: 321250.1883 N: 6606441.5004	3	100	Sheeting ACM fence sheet	4 m^2	G3_G100_003 Asbestos Detected Chrysotile + Amosite	
E: 321229.7338 N: 6606393.4936	3	106	Sheeting Broken ACM sheeting	20 m^2	G3_G106_004 Asbestos Detected Chrysotile + Amosite	
E: 321181.0976 N: 6606617.414	4	116	Sheeting One piece of ACM fence sheeting in dune.	2 m^2	G4_116_24 Asbestos detected Chrysotile + Amosite	

Location Coordinates	Map Number	Shack ID	Description	Approximate Area of Impact	Laboratory Results	Photo
E: 321189.5502 N: 6606610.972	4	116	Five ACM sheets. Also some corner capping noted.	4 m^2	G4_116_005 Asbestos detected Chrysotile+ Amosite G4_G116_25 Asbestos detected Chrysotile + Amosite	 
E: 321167.8484 N: 6606695.7705	5	120	Buried ACM fence buried in ground	2 m^2	Not sampled	
E: 321136.0001 N: 6606751.162	5	122	Buried ACM buried in dune along western side of shack. Surface fragments removed as far as practical.	40 m^2	G5_G122_12 Asbestos Detected Chrysotile + Amosite	

Location Coordinates	Map Number	Shack ID	Description	Approximate Area of Impact	Laboratory Results	Photo
E: 321211.1584 N: 6606761.2397	5	129	Spatial Extent and Buried ACM scattered over surface. Noted to be buried in mound beneath shack.	50 m^2	G5_G129_10 No Asbestos Detected Remains outstanding due to varied nature of fragments observed across surface and large scale area of scattered fragments and size of mound.	
E: 321209.9964 N: 6606780.0311	5	130	Spatial Extent and Buried Scattered ACM fragments throughout entire shack footprint.	Over 600 m^2	G5_G130_11 No Asbestos Detected Remains outstanding due to varied nature of fragments observed across surface and large scale area of scattered fragments and size of mound	

Summary of Wedge Settlement 'Outstanding' Occurrences

Location Coordinates	Map Number	Shack ID	Description	Approximate Area of Impact	Laboratory Results	Photo
E: 327733.5931 N: 6588966.4942	6	12	Sheeting ACM sheeting within vegetation.	2 m^2	W6_W12_001 Asbestos Detected Chrysotile + Crocidolite	
E: 327739.1287 N: 6588983.0152	6	12	Mound Eastern side of shack. Surface fragments at two locations less than 1 m away between, removed to uncover buried and friable asbestos material. Extent of buried unknown.	Mound could extend beyond 5m in length, 2 m wide, approximately 1 m high.	Not sampled	 
E: 327684.5403 N: 6589006.7944	5	13	Sheeting and Buried Mound containing ACM sheet and buried fragments southern side of shack in vegetation.	50 m^2	Not Sampled	

Location Coordinates	Map Number	Shack ID	Description	Approximate Area of Impact	Laboratory Results	Photo
E: 327674.4681 N: 6589000.953	6	14	Mound Large mound on western side of shack between W14 and W13 partially covered in carpet. Suspected buried ACM throughout. Some exposed surface fragments.	20 m^2	W6_W13_013 Asbestos Detected Chrysotile + Amosite	
E: 327709.6185 N: 6588988.0534	6	15	Mound ACM sheeting on surface and buried in mound near southern side of shack.	2 m^2	Not sampled	
E: 327656.3454 N: 6588953.5605	6	18	Mound Buried ACM and exposed sheeting throughout vegetated mound western side of shack.	5 m x 5 m x 1 m high	Not sampled	
E: 327650.0084 N: 6588966.0849	6	19	Sheeting ACM sheeting buried and on surface western side of shack.	30 m^2	W6_W19_002 Asbestos Detected Chrysotile + Amosite + Crocidolite	

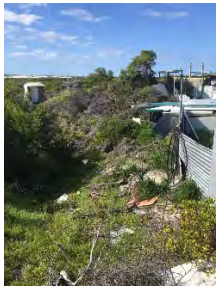
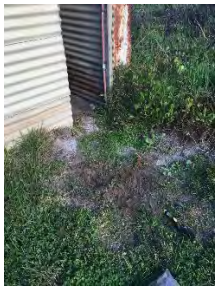
Location Coordinates	Map Number	Shack ID	Description	Approximate Area of Impact	Laboratory Results	Photo
E: 327638.7867 N: 6588958.0101	6	20	Mound Large mound with visible buried ACM on western side of shack. Newly laid lawn adjacent to mound, possibly buried under lawn as well.	10 m x 5 m x 1 m high	Not sampled	
E: 327638.78 N: 6588958.0101	5	25	Sheeting and Buried ACM against shack and buried in ground.	2 m^2	W5_W25_008 Asbestos Detected Chrysotile + Amosite	
E: 327558.1118 N: 6588835.9952	2	32	Sheeting and Buried ACM sheet and fragments buried and visible in soil western side of shack.	Up to 20 m^2	W2_W32_003 Asbestos detected Chrysotile + Crocidolite	

Location Coordinates	Map Number	Shack ID	Description	Approximate Area of Impact	Laboratory Results	Photo
E: 327331.4675 N: 6588939.6505	2	52	Mound ACM buried in dune. Appear to be remains of a structure pushed into dune.	80 m^2	Not sampled	
E: 327410.1757 N: 6588840.0146	2	56	Sheeting and Buried ACM sheet and fragments buried and visible in side of dune south of shack.	8 m^2	Not sampled	
E: 327230.1819 N: 6588994.4005	4	78	Sheeting ACM sheeting	2 m^2	W4_W78_006 Asbestos detected Chrysotile + Amosite	

Location Coordinates	Map Number	Shack ID	Description	Approximate Area of Impact	Laboratory Results	Photo
E: 327169.4152 N: 6588983.6934	4	92 track	Sheeting Three ACM sheeting panels upright near tank.	6 m^2	W4_W92_018 Asbestos detected Chrysotile + Amosite	
E: 327065.0945 N: 6589143.3855	4	99	Sheeting ACM sheeting south western corner of shack.	3 m^2	W4_W99_011 Asbestos detected Chrysotile + Amosite	
E: 326963.4166 N: 6589163.7644	9	110	Sheeting ACM sheeting	10 m^2	W9_W110_005 Asbestos detected Chrysotile + Amosite + Crocidolite	

Location Coordinates	Map Number	Shack ID	Description	Approximate Area of Impact	Laboratory Results	Photo
E: 326948.1722 N: 6589650.0957	15	142	Sheeting ACM sheet partially buried in dune west of shack.	3 m^2	Not sampled	
E: 326943.2474 N: 6589657.9737	15	142	Spatial Extent Scattered ACM fragments, some partially buried to the north west of shack.	5 m^2	W15_W142_23 Asbestos detected Chrysotile	
E: 326978.6489 N: 6589871.6622	16	161	Sheeting Staked ACM sheets.	2 m^2	W16_W161_004 Asbestos detected Chrysotile + Amosite	

Location Coordinates	Map Number	Shack ID	Description	Approximate Area of Impact	Laboratory Results	Photo
E: 327166.3293 N: 6589961.4789	16	207	Spatial Extent ACM scattered near the north eastern corner of shack.	40 m^2	Not sampled	
E: 327396.337 N: 6589345.9509	8	288	Sheeting ACM sheet partially buried.	2 m^2	W8_W288_014 Asbestos detected Chrysotile + Amosite	
E: 327220.5241 N: 6589632.0609	15	304	Spatial Extent Multiple scattered fragments near north east corner of shack.	11 m^2	W10_W304_22 No Asbestos Detected Remains outstanding due to varied nature of fragments observed across surface and large scale area of scattered fragments.	

Location Coordinates	Map Number	Shack ID	Description	Approximate Area of Impact	Laboratory Results	Photo
E: 327224.9132 N: 6589624.1012	10	305	Spatial Extent Large ACM sheets in vegetation north of shack. No access due to fence to shack surrounds and suspect sheeting observed within fenced area.	20 m^2	W10_W305_21 No Asbestos Detected Remains outstanding due to varied nature of fragments observed across surface and large scale area of scattered fragments.	
E: 327496.2993 N: 6589163.3382	8	332	Spatial Extent Small ACM fragments scattered across track near shack.	Entire track	Not sampled	
E: 327483.7346 N: 6589163.1101	8	332	Spatial Extent and Buried Larger ACM fragments on surface and also buried when started to rake near the shed doorway. Surface has been cleared.	2 m^2	Not sampled	

Location Coordinates	Map Number	Shack ID	Description	Approximate Area of Impact	Laboratory Results	Photo
E: 327534.6105 N: 6589090.1151	5	335	Sheeting ACM sheet partially buried.	2 m^2	Not sampled	
E: 327335.9806 N: 6589144.6854	5	355	Sheeting Large ACM sheet half buried in vegetation	2 m^2	W5_W355_017 Asbestos detected Chrysotile + Amosite	
E: 327272.7108 N: 6589365.3215	8	Common Area	Sheeting ACM sheeting partially buried in mound.	30 m^2 x 2 m high	W8_Common Area_20 Asbestos detected Chrysotile + Amosite	

Location Coordinates	Map Number	Shack ID	Description	Approximate Area of Impact	Laboratory Results	Photo
E: 327005.4814 N: 6589729.0151	15	Track	Spatial Extent ACM fragments scattered on surface.	60 m^2	Not sampled	
E: 326977.7057 N: 6589759.7461	15	Track	Spatial Extent ACM fragments scattered on surface and partially buried.	>10 m^2	Not sampled	
E: 326984.8324 N: 6589828.945	15	Track	Spatial Extent ACM fragments scattered on surface and partially buried.	30 m^2	Not sampled	
E: 327016.7606 N: 6589784.6818	15	Track	Spatial Extent ACM fragments scattered on surface and partially buried.	15 m^2	Not sampled	

Location Coordinates	Map Number	Shack ID	Description	Approximate Area of Impact	Laboratory Results	Photo
E: 327092.9866 N: 6589715.2571	15	Common Area	Spatial Extent Large area of ACM buried in soil & debris.	40 m^2	Not sampled	
E: 327676.7761 N: 6588978.7834	6	Common Area	Spatial Extent Common Area east of W017 extending north to W022, including the track. Scattered small fragments throughout area.	50 x 20 m in area	W6_Common Area_014 Asbestos Detected Chrysotile + Amosite	
E: 327673.1718 N: 6589015.6449	5	Common Area	Spatial Extent Common area between W013 and W025, scattered ACM surface fragments throughout area. Mound in background of this photo the mound described above at W014.	Up to 40 m^2	W9_Track_012 No Asbestos Detected. Remains outstanding due to varied nature of fragments observed across surface and large scale area of scattered fragments.	

Appendix I: Photo Plates

Wedge Settlement

Photo 1. Wedge shack W99, AF sampling conducted along back wall of shack (not visible).

Photo 2. Wedge shack 162, AF samples were collected adjacent to the shack wall and stepped out.

Photo 3. Wedge shack W170, water run off drip line visible in sand where AF samples were collected.

Photo 4. AF sampling at Wedge shack W13

Photo 5. Suspect ACM fence adjacent to Wedge shack W245, where AF sampling was conducted.

Photo 6. Example of typical carpet upturned during the ACM identification and removal assessment.

Photo 7. Flooding of tracks at the commencement of the program at Wedge.

Photo 8. Track and common area between W17 and W22 classified as 'outstanding' due to large amount of scattered suspect ACM fragments.

Photo 9. Sub-contractors undertaking ACM identification walkover.

Photo 10. Lockable skip bin for suspect ACM storage prior to its disposal.

Photo 11. Typical mound of material with suspect ACM buried throughout. This mound is east of W14.

Photo 12.: Common area between W13 and W25 classified as 'outstanding'. Mound in Photo 11 in background.

Photo 13. Occurrence of suspect ACM at W18

Photo 14. Same occurrence at W18 remediated and 'resolved'.

Grey Settlement

Photo 15. Grey Settlement view from G40.

Photo 16. Typical suspect ACM scatter (G63).

Photo 17.: Remediation of scattered suspect ACM fragments at G63.

Photo 18. Suspect ACM fragments collected at G63.

Photo 19. Raking suspected ACM at G115.

Photo 20. Typical occurrence of suspect ACM sheets (G85).

Photo 21. Typical suspect ACM scatter on tracks (G43).

Photo 22. Suspect ACM scatter near G43 post remediation.

Photo 23. AF sampling at Grey shack G09.

Photo 24. AF sampling at Grey shack G67

Photo 25. AF sampling at Grey shack G92.

Appendix J: Results Tables

Table 1: Fragment Sampling Results
Wedge and Grey Shack Settlements
Department of Parks and Wildlife
P11935

Sample date	Sample ID	Asbestos Detected	Asbestos Type	Sample weight (dry)	Description
Wedge Settlement					
20/07/2016	W6_W12_001	**Yes**	**Ch + Cr**	2.78	Two pieces of bonded asbestos cement sheeting approximately 35 x 25 x 5mm.
20/07/2016	W6_W19_002	**Yes**	**Ch + Am + Cr**	3.67	One piece of bonded asbestos cement sheeting approximately 30 x 25 x 5mm.
25/07/2016	W2_W32_003	**Yes**	**Ch + Cr**	138	A piece of asbestos containing fibro cement sheet approximately 125 x 9 x 5 mm
02/08/2016	W16_W161_004	**Yes**	**Ch + Am**	2.44	One piece of bonded asbestos cement sheeting approximately 25 x 15 x 5mm.
02/08/2016	W9_W110_005	**Yes**	**Ch + Am + Cr**	4.28	sheeting approximately 15 x 10 x 4mm plus one piece of heavily degraded and friable asbestos
02/08/2016	W4_W78_006	**Yes**	**Ch + Am**	2.72	One piece of bonded asbestos cement sheeting approximately 30 x 20 x 5mm.
02/08/2016	W3_W99_007	No	-	2.06	Several pieces of cement sheeting approximately 15 x 5 x 2mm.
02/08/2016	W5_W25_008	**Yes**	**Ch + Am**	3.74	One piece of bonded asbestos cement sheeting approximately 35 x 25 x 5mm.
02/08/2016	W5_W23_009	No	-	2.2	A collection of cement debris.
02/08/2016	W10_W128_010	No	-	59.1	Two pieces of cement sheeting approximately 80 x 55 x 4mm.
03/08/2016	W4_W99_011	**Yes**	**Ch + Am**	2.47	One piece of bonded asbestos cement sheeting approximately 30 x 20 x 5mm.
03/08/2016	W9_Track_012	No	-	12.8	One piece of cement sheeting approximately 50 x 25 x 5mm.
12/08/2016	W6_W13_013	**Yes**	**Ch + Am**	15.5	One piece of bonded asbestos cement sheeting approx. 50 x 35 x 4 mm.
12/08/2016	W_Common Area_014	**Yes**	**Ch + Am**	75.7	Two pieces of bonded asbestos cement sheeting approx. 80 x 60 x 5 mm.
12/08/2016	W5_W135_015	**Yes**	**Ch + Am**	4.74	Two pieces of bonded asbestos cement sheeting approx. 40 x 20 x 7 mm.
12/08/2016	W5_W345_016	No	-	10.6	Several pieces of organic fibre board approx. 50 x 30 x 5 mm.
12/08/2016	W5_W355_017	**Yes**	**Ch + Am**	28.8	One piece of bonded asbestos cement sheeting approx. 70 x 60 x 5 mm.
12/08/2016	W4_W92_018	**Yes**	**Ch + Am**	9.14	Two pieces of bonded asbestos cement sheeting approx. 60 x 20 x 4 mm.
12/08/2016	W8_W288_014	**Yes**	**Ch + Am**	21.8	One piece of bonded asbestos cement sheeting approx. 100 x 30 x 5 mm.
12/08/2016	W8_Common Area_20	**Yes**	**Ch + Am**	9.73	One piece of bonded asbestos cement sheeting with friable edges approx. 110 x 35 x 2 mm.
12/08/2016	W10_W305_21	No	-	14.4	One piece of organic fibre board approx. 80 x 50 x 4 mm.
12/08/2016	W10_W304_22	No	-	36.8	Two pieces of organic fibre board approx. 85 x 60 x 6 mm.
12/08/2016	W15_W142_23	**Yes**	**Ch**	1.72	Four pieces of friable asbestos fibre board approx. 20 x 20 x 3 mm.
12/08/2016	W15_W235_24	No	-	7.01	One piece of organic fibre board approx. 55 x 30 x 5 mm.
12/08/2016	W10_W304_25	No	-	32.3	Three pieces of cement sheeting approx. 60 x 50 x 8 mm.
12/08/2016	W16_W207_26	No	-	23.0	Four pieces of cement sheeting approx. 55 x 25 x 8 mm.
Grey Settlement					
03/08/2016	G2_S3_001	No[#]	-	28.2	Three pieces of vinyl-like material approximately 120 x 50 x 2mm.
11/08/2016	G4_G109_002	No	-	2.42	Two pieces of organic fibre board approx. 25 x 15 x 5 mm.
11/08/2016	G3_G100_003	**Yes**	**Ch + Am**	2.69	Two pieces of bonded asbestos cement sheeting approx. 25 x 20 x 4 mm.
11/08/2016	G3_G106_004	**Yes**	**Ch + Am**	3.35	Two pieces of bonded asbestos cement sheeting approx. 40 x 15 x 5 mm.
11/08/2016	G4_G116_005	**Yes**	**Ch + Am**	8.77	One piece of bonded asbestos cement sheeting approx. 40 x 35 x 7 mm.
11/08/2016	G4_G133_006	No	-	2.63	One piece of organic fibre board approx. 40 x 20 x 4 mm.
11/08/2016	G4_Track_007	**Yes**	**Ch + Am**	3.39	Two pieces of bonded asbestos cement sheeting approx. 30 x 15 x 7 mm.
12/08/2016	G3_G79_008	**Yes**	**Ch + Am**	9.53	One piece of bonded asbestos cement sheeting approx. 40 x 40 x 4 mm.
12/08/2016	G3_G80_009	**Yes**	**Ch + Am**	9.05	One piece of bonded asbestos cement sheeting approx. 45 x 35 x 5 mm.
12/08/2016	G5_G129_10	No	-	11.8	Two pieces of cement sheeting approx. 45 x 40 x 4 mm.
12/08/2016	G5_G130_11	No	-	17.1	Three pieces of cement sheeting approx. 40 x 30 x 6 mm.
12/08/2016	G5_G122_12	**Yes**	**Ch + Am**	31.1	One piece of bonded asbestos cement sheeting approx. 95 x 40 x 6 mm.
12/08/2016	G3_G92_14	**Yes**	**Ch**	53.3	Two pieces of cement sheeting plus one piece of bonded asbestos fibre board approx. 75 x 50 x 7 mm.
12/08/2016	G5_G122_15	No	-	39.1	Concrete debris containing polystyrene balls.
18/08/2016	G1_G32_016	**Yes**	**Ch + Am + Cr**	8.63	One piece of bonded asbestos cement sheeting approx. 50 x 30 x 4 mm.
18/08/2016	G1_G63_017	**Yes**	**Ch + Am**	12.7	One piece of bonded asbestos cement sheeting approx. 45 x 30 x 7 mm.
18/08/2016	G2_G85_018	**Yes**	**Ch + Am**	7.15	Two pieces of bonded asbestos cement sheeting approx. 30 x 20 x 6 mm.
18/08/2016	G2_G85_019	**Yes**	**Ch + Am**	2.42	One piece of bonded asbestos cement sheeting approx. 25 x 20 x 5 mm.
18/08/2016	G2_G50_20	**Yes**	**Ch + Am**	8.33	Two pieces of bonded asbestos cement sheeting approx. 40 x 20 x 5 mm.
18/08/2016	G2_G40_21	No	-	5.25	One piece of cement sheeting approx. 40 x 25 x 7 mm.
18/08/2016	G2_G40_22	No	-	62.7	One piece of cement sheeting approx. 110 x 90 x 7 mm.
18/08/2016	G2_G56_23	**Yes**	**Ch + Cr**	5.07	Two pieces of bonded asbestos cement sheeting approx. 30 x 20 x 4 mm.
18/08/2016	G4_G116_24	**Yes**	**Ch + Am**	9.88	Two pieces of bonded asbestos cement sheeting approx. 55 x 25 x 5 mm.
18/08/2016	G4_G116_25	**Yes**	**Ch + Am**	4.78	One piece of bonded asbestos cement sheeting approx. 40 x 20 x 6 mm.
18/08/2016	G2_G28_26	**Yes**	**Ch + Am**	24.3	Several pieces of bonded asbestos cement sheeting approx. 30 x 20 x 5 mm plus several fragments of cement sheeting.
12/08/2016	G4_Track_13	**Yes**	**Ch + Am + Cr**	30.1	Two pieces of bonded asbestos cement sheeting approximately 50 x 40 x 5mm.
12/08/2016	G4_Track_14	No	-	52.2	Three pieces of cement debris approximately 45 x 35 x 13mm.

Notes:

Asbestos weights and percentages are not covered under the scope of ALS Nata accreditation

Am - Amosite (brown asbestos)

Cr - Crocidolite (blue asbestos)

Ch - Chrysotile (white asbestos)

- ALS stated that negative results for vinyl titles should be confirmed by an independent analytical technique

Table 2: Wedge Settlement Asbestos Fibre Sampling Results
Wedge and Grey Shack Settlements
Department of Parks and Wildlife
P11935

				EA200: AS 4964 - 2004 Identification of Asbestos in Soils				EA200F: Friable Asbestos in Soil (non-NATA)				EA200N: ACM Asbestos in Soil (non-NATA)	
Potential Liklihood of AF	Shack ID	Sample ID	Date Sampled	Asbestos Detected (g/kg)	Asbestos Type	Sample weight (dry) (g)	Description	Friable Asbestos (g)	Friable Asbestos (as Asbestos in Soil) (% w/w)	Weight Used for % Calculation (kg)	Free Fibres	Asbestos Containing Material (as 15% Asbestos in ACM >7mm) (% w/w)	Asbestos Containing Material (g)
		LOR		0.1		0.01		0.0004	0.001	0.0001	5	0.01	0.1
HIGH	W013	W6_W13_AF_01	**25/07/2016**	**Yes**	**Ch**	363	Sandy soil with plant matter and three asbestos containing fibre bundles approximately 4 x 1 x 0.2mm	**0.0010**	<0.001	0.363	No	<0.01	<0.1
		W6_W13_AF_02	**25/07/2016**	**Yes**	**Ch+Am**	370	Sandy soil with plant matter and an asbestos containing fibre bundle approximately 5 x 1 x 0.2mm	**0.0020**	<0.001	0.370	No	<0.01	<0.1
		W6_W13_AF_03	25/07/2016	No	-	331	Sandy soil with plant matter	<0.0004	<0.001	0.331	No	<0.01	<0.1
		W6_W13_AF_04	**25/07/2016**	**No**	-	408	Sandy soil with plant matter	<0.0004	<0.001	0.408	No	<0.01	<0.1
		W6_W13_AF_05	**25/07/2016**	**No**	-	426	Sandy soil with plant matter	<0.0004	<0.001	0.426	No	<0.01	<0.1
		W6_W13_AF_06	**25/07/2016**	**No**	-	286	Sandy soil with plant matter	<0.0004	<0.001	0.286	No	<0.01	<0.1
		W6_W13_AF_10	**25/07/2016**	**No**	-	353	Sandy soil with plant matter	<0.0004	<0.001	0.353	No	<0.01	<0.1
		W6_W13_AF_11	**25/07/2016**	**Yes**	**Ch+Am**	403	Sandy soil with plant matter and an asbestos containing fibrous material approximately 4 x 2 x 0.5mm	**0.0036**	<0.001	0.403	No	<0.01	<0.1
		W6_W13_AF_12	25/07/2016	**Yes**	**Ch+Am**	312	Sandy soil with plant matter and an asbestos containing fibrous material approximately 10 x 4 x 1mm	**0.0080**	**0.002**	0.312	No	<0.01	<0.1
	W099	W4_W99_AF_01	**25/07/2016**	**Yes**	**Ch+Am**	474	Sandy soil with plant matter and three asbestos containing fibro fragments approximately 3 x 2 x 1mm	**0.0043**	<0.001	0.474	No	<0.01	<0.1
		W4_W99_AF_02	**25/07/2016**	**Yes**	**Ch+Am**	354	Sandy soil with plant matter and three asbestos containing fibro fragments approximately 5 x 4 x 1mm	**0.0043**	**0.001**	0.354	No	<0.01	<0.1
		W4_W99_AF_03	**25/07/2016**	**Yes**	**Ch**	474	Sandy soil with plant matter and three asbestos containing fibre bundles approximately 2 x 2 x 0.2mm	**0.0010**	<0.001	0.474	No	<0.01	<0.1
		W4_W99_AF_04	**25/07/2016**	**Yes**	**Ch**	432	Sandy soil with plant matter and four asbestos containing fibre bundles approximately 2 x 1 x 0.2mm	**0.0092**	**0.002**	0.432	No	<0.01	<0.1
		W4_W99_AF_05	**25/07/2016**	**Yes**	**Ch**	341	Sandy soil with plant matter and synthetic mineral fibres and two asbestos containing fibre bundles approximately 2 x 0.3 x 0.2mm	**0.0033**	<0.001	0.341	No	<0.01	<0.1
		W4_W99_AF_06	**25/07/2016**	**No**	-	270	Sandy soil with plant matter	<0.0004	<0.001	0.270	No	<0.01	<0.1
		W4_W99_AF_07	25/07/2016	**Yes**	**Ch**	427	Sandy soil with plant matter and more than five asbestos containing fibre bundles approximately 5 x 1 x 0.2mm	**0.0019**	<0.001	0.427	No	<0.01	<0.1
		W4_W99_AF_08	**25/07/2016**	**No**	-	324	Pale brown sandy soil.	<0.0004	<0.001	0.324	No	<0.01	<0.1
		W4_W99_AF_09	25/07/2016	No	-	391	Pale brown sandy soil.	<0.0004	<0.001	0.391	No	<0.01	<0.1
		W4_W99_AF_10	25/07/2016	No	-	454	Pale brown sandy soil.	<0.0004	<0.001	0.454	No	<0.01	<0.1
		W4_W99_AF_11	**25/07/2016**	**No**	-	459	Pale brown sandy soil.	<0.0004	<0.001	0.459	No	<0.01	<0.1
		W4_W99_AF_12	25/07/2016	No	-	567	Pale brown sandy soil.	<0.0004	<0.001	0.567	No	<0.01	<0.1
		W4_W99_AF_13	**25/07/2016**	**No**	-	411	Sandy soil with plant matter	<0.0004	<0.001	0.411	No	<0.01	<0.1
		W4_W99_AF_14	**25/07/2016**	**No**	-	411	Sandy soil with plant matter	<0.0004	<0.001	0.411	No	<0.01	<0.1
		W4_W99_AF_15	**25/07/2016**	**No**	-	385	Pale brown sandy soil.	<0.0004	<0.001	0.385	No	<0.01	<0.1
MEDIUM	W055	W055_AF_01	02/08/2016	No	-	466	Pale brown sandy soil.	<0.0004	<0.001	0.466	No	<0.01	<0.1
		W055_AF_02	**02/08/2016**	**No**	-	486	Pale brown sandy soil.	<0.0004	<0.001	0.486	No	<0.01	<0.1
		W055_AF_03	**02/08/2016**	**No**	-	506	Pale brown sandy soil.	<0.0004	<0.001	0.506	No	<0.01	<0.1
		W055_AF_04	**02/08/2016**	**No**	-	522	Pale brown sandy soil.	<0.0004	<0.001	0.522	No	<0.01	<0.1
		W055_AF_05	02/08/2016	No	-	381	Pale brown sandy soil.	<0.0004	<0.001	0.381	No	<0.01	<0.1
		W055_AF_06	**02/08/2016**	**No**	-	**365**	Pale brown sandy soil.	<0.0004	<0.001	0.365	No	<0.01	<0.1
		W055_AF_07	**02/08/2016**	**No**	-	527	Pale brown sandy soil.	<0.0004	<0.001	0.527	No	<0.01	<0.1
		W055_AF_08	**02/08/2016**	**No**	-	503	Pale brown sandy soil.	<0.0004	<0.001	0.503	No	<0.01	<0.1
		W055_AF_11	02/08/2016	No	-	416	Pale brown sandy soil.	<0.0004	<0.001	0.416	No	<0.01	<0.1
		W055_AF_10	02/08/2016	No	-	475	Pale brown sandy soil.	<0.0004	<0.001	0.475	No	<0.01	<0.1
	W149	W149_AF_01	02/08/2016	No	-	337	Pale brown sandy soil.	<0.0004	<0.001	0.337	No	<0.01	<0.1
		W149_AF_02	**02/08/2016**	**No***	**Ch + Am**	519	Pale brown sandy soil with one fragment of bonded asbestos cement sheeting approx. 5 x 3 x 3 mm.	**0.0353**	**0.007**	0.519	No	<0.01	<0.1
		W149_AF_03	**02/08/2016**	**Yes**	**Ch + Am**	466	Pale brown sandy soil with three pieces of bonded asbestos cement sheeting with friable edges ranging from approx. 5 x 5 x 4 mm to 25 x 12 x 3 mm.	**0.0530**	**0.011**	0.466	No	**0.02**	**0.6**
		W149_AF_04	**02/08/2016**	**No**	-	400	Pale brown sandy soil.	<0.0004	<0.001	0.400	No	<0.01	<0.1
		W149_AF_05	**02/08/2016**	**No**	-	569	Pale brown sandy soil.	<0.0004	<0.001	0.569	No	<0.01	<0.1
		W149_AF_06	02/08/2016	No	-	448	Pale brown sandy soil.	<0.0004	<0.001	0.448	No	<0.01	<0.1
	W162	W16_W162_AF_01	25/07/2016	**Yes**	**Ch+Am**	471	Sandy soil with plant matter and synthetic mineral fibres and an asbestos containing fibro fragment approximately 10 x 5 x 1mm	**0.0106**	**0.002**	0.471	No	<0.01	<0.1
		W16_W162_AF_02	25/07/2016	No	-	444	Sandy soil with plant matter	<0.0004	<0.001	0.444	No	<0.01	<0.1
		W16_W162_AF_03	25/07/2016	No	-	453	Sandy soil with plant matter	<0.0004	<0.001	0.453	No	<0.01	<0.1
		W16_W162_AF_04	25/07/2016	No	-	330	Sandy soil with plant matter	<0.0004	<0.001	0.330	No	<0.01	<0.1
		W16_W162_AF_05	25/07/2016	No	-	448	Sandy soil with plant matter	<0.0004	<0.001	0.448	No	<0.01	<0.1
		W16_W162_AF_06	25/07/2016	No	-	530	Sandy soil with plant matter	<0.0004	<0.001	0.530	No	<0.01	<0.1
		W16_W162_AF_07	25/07/2016	No	-	529	Sandy soil with plant matter	<0.0004	<0.001	0.529	No	<0.01	<0.1
		W16_W162_AF_08	25/07/2016	No	-	342	Sandy soil with plant matter	<0.0004	<0.001	0.342	No	<0.01	<0.1
		W16_W162_AF_14	25/07/2016	No	-	467	Sandy soil with plant matter	<0.0004	<0.001	0.467	No	<0.01	<0.1
		W16_W162_AF_15	25/07/2016	No	-	480	Sandy soil with plant matter	<0.0004	<0.001	0.480	No	<0.01	<0.1
	W245	W245_AF_01	02/08/2016	**No***	**Ch + Am**	510	Pale brown sandy soil with five fragments of friable asbestos cement sheeting approx. 4 x 3 x 2 mm.	**0.0308**	**0.006**	0.510	No	<0.01	<0.1
		W245_AF_02	**02/08/2016**	**No**	-	423	Pale brown sandy soil.	<0.0004	<0.001	0.423	No	<0.01	<0.1
		W245_AF_03	02/08/2016	No	-	327	Pale brown sandy soil.	<0.0004	<0.001	0.327	No	<0.01	<0.1
		W245_AF_04	02/08/2016	No	-	343	Pale brown sandy soil.	<0.0004	<0.001	0.343	No	<0.01	<0.1
		W245_AF_05	02/08/2016	No	-	430	Mid grey sandy soil.	<0.0004	<0.001	0.430	No	<0.01	<0.1
		W245_AF_06	02/08/2016	No	-	290	Mid grey sandy soil.	<0.0004	<0.001	0.290	No	<0.01	<0.1
		W245_AF_11	02/08/2016	No	-	425	Pale brown sandy soil.	<0.0004	<0.001	0.425	No	<0.01	<0.1
LOW	W170	W16_W170_AF_01	25/07/2016	No	-	389	Sandy soil with plant matter	<0.0004	<0.001	0.389	No	<0.01	<0.1
		W16_W170_AF_02	**25/07/2016**	**No**	-	351	Sandy soil with plant matter	<0.0004	<0.001	0.351	No	<0.01	<0.1
		W16_W170_AF_03	**25/07/2016**	**No**	-	505	Sandy soil with plant matter	<0.0004	<0.001	0.505	No	<0.01	<0.1
		W16_W170_AF_04	**25/07/2016**	**No**	-	452	Sandy soil with plant matter	<0.0004	<0.001	0.452	No	<0.01	<0.1
		W16_W170_AF_05	**25/07/2016**	**No**	-	447	Sandy soil with plant matter	<0.0004	<0.001	0.447	No	<0.01	<0.1
		W16_W170_AF_10	**25/07/2016**	**No**	-	392	Sandy soil with plant matter	<0.0004	<0.001	0.392	No	<0.01	<0.1
		W16_W170_AF_11	25/07/2016	No	-	513	Sandy soil with plant matter	<0.0004	<0.001	0.513	No	<0.01	<0.1
		W16_W170_AF_12	25/07/2016	No	-	487	Sandy soil with plant matter	<0.0004	<0.001	0.487	No	<0.01	<0.1
		W16_W170_AF_13	25/07/2016	No	-	450	Sandy soil with plant matter	<0.0004	<0.001	0.450	No	<0.01	<0.1

Notes:
LOR - Limit of Reporting
Asbestos weights and percentages are not covered under the scope of ALS NATA accreditation.
Am - Amosite (brown asbestos)
Cr - Crocidolite (blue asbestos)
Ch - Chrysotile (white asbestos)
Yes - Asbestos detected by polarised light microscopy including dispersion staining.
No** - No asbestos found, at the reporting limit of 0.1g/kg, by polarised light microscopy including dispersion staining. Asbestos material was detected and positively identified at concentrations estimated to be below 0.1g/kg.

Table 3: GreySettlement Asbestos Fibre Sampling Results
Wedge and Grey Shack Settlements
Department of Parks and Wildlife
P11935

senversa

			EA200: AS 4964 - 2004 Identification of Asbestos in Soils				EA200F: Friable Asbestos in Soil (non-NATA)				EA200N: ACM Asbestos in Soil (non NATA)	
Shack ID	**Sample ID**	**Date Sampled**	**Asbestos Detected (g/kg)**	**Asbestos Type**	**Sample weight (dry) (g)**	**Description**	**Friable Asbestos (g)**	**Friable Asbestos (as Asbestos in Soil) (% w/w)**	**Weight Used for % Calculation (kg)**	**Free Fibres**	**Asbestos Containing Material (as 15% Asbestos in ACM >7mm) (% w/w)**	**Asbestos Containing Material (g)**
	LOR		0.1		0.01		0.0004	0.001	0.0001	5	0.01	0.1
G028	G028_AF_01	**02/08/2016**	**No**	-	526	Pale brown sandy soil.	<0.0004	<0.001	0.526	No	<0.01	<0.1
	G028_AF_02	02/08/2016	**Yes**	**Ch + Am**	510	Pale brown sandy soil plus one small fragment of bonded asbestos cement sheeting approx. 12 x 6 x 3 mm and several small fragments of friable asbestos cement sheeting approx. 4 x 3 x 3 mm.	**0.0637**	**0.012**	0.510	No	<0.01	<0.1
	G028_AF_03	02/08/2016	No	-	515	Pale brown sandy soil.	<0.0004	<0.001	0.515	No	<0.01	<0.1
	G028_AF_04	02/08/2016	No	-	567	Pale brown sandy soil.	<0.0004	<0.001	0.567	No	<0.01	<0.1
	G028_AF_05	02/08/2016	No	-	562	Pale brown sandy soil.	<0.0004	<0.001	0.562	No	<0.01	<0.1
	G028_AF_06	02/08/2016	No	-	595	Pale brown sandy soil.	<0.0004	<0.001	0.595	No	<0.01	<0.1
	G028_AF_07	02/08/2016	No	-	570	Pale brown sandy soil.	<0.0004	<0.001	0.570	No	<0.01	<0.1
	G028_AF_08	**02/08/2016**	**No**	-	484	Pale brown sandy soil.	<0.0004	<0.001	0.484	No	<0.01	<0.1
	G028_AF_09	**02/08/2016**	**No**	-	463	Pale brown sandy soil.	<0.0004	<0.001	0.463	No	<0.01	<0.1
G092	G092_AF_01	**02/08/2016**	**No**	-	659	Pale brown sandy soil.	<0.0004	<0.001	0.659	No	<0.01	<0.1
	G092_AF_02	02/08/2016	No	-	612	Pale brown sandy soil.	<0.0004	<0.001	0.612	No	<0.01	<0.1
	G092_AF_03	**02/08/2016**	**No**	-	468	Pale brown sandy soil.	<0.0004	<0.001	0.468	No	<0.01	<0.1
	G092_AF_04	**02/08/2016**	**No***	**Ch + Am**	535	Pale brown sandy soil plus one fragment of bonded asbestos cement sheeting approx. 7 x 6 x 6 mm.	**0.0152**	**0.003**	0.535	No	<0.01	<0.1
	G092_AF_05	**02/08/2016**	**No**	-	624	Pale brown sandy soil.	<0.0004	<0.001	0.624	No	<0.01	<0.1
	G092_AF_09	**02/08/2016**	**No**	-	540	Pale brown sandy soil.	<0.0004	<0.001	0.540	No	<0.01	<0.1
	G092_AF_10	**02/08/2016**	**No**	-	545	Pale brown sandy soil.	<0.0004	<0.001	0.545	No	<0.01	<0.1
G009	G009_AF_01	**02/08/2016**	**No**	-	547	Pale brown sandy soil.	<0.0004	<0.001	0.547	No	<0.01	<0.1
	G009_AF_02	**02/08/2016**	**No**	-	526	Pale brown sandy soil.	<0.0004	<0.001	0.526	No	<0.01	<0.1
	G009_AF_03	**02/08/2016**	**No**	-	564	Pale brown sandy soil.	<0.0004	<0.001	0.564	No	<0.01	<0.1
	G009_AF_04	**02/08/2016**	**No***	**Ch**	551	Pale brown sandy soil with one piece of friable asbestos cement sheeting approx 3 x 3 x 1 mm.	**0.0043**	<0.001	0.551	No	<0.01	<0.1
	G009_AF_05	**02/08/2016**	**No***	**Ch**	564	Pale brown sandy soil with three pieces of friable asbestos cement sheeting approx 4 x 3 x 1 mm.	**0.0265**	**0.005**	0.564	No	<0.01	<0.1
	G009_AF_06	**02/08/2016**	**No***	**Ch**	559	Pale brown sandy soil with one piece of friable asbestos cement sheeting approx. 5 x 4 x 2 mm.	**0.0210**	**0.004**	0.559	No	<0.01	<0.1
	G009_AF_07	02/08/2016	No	-	488	Pale brown sandy soil.	<0.0004	<0.001	0.488	No	<0.01	<0.1
	G009_AF_08	**02/08/2016**	**No***	**Ch**	652	Pale brown sandy soil with one piece of bonded asbestos cement sheeting approx. 7 x 5 x 2 mm.	**0.0588**	**0.009**	0.652	No	<0.01	<0.1
	G009_AF_09	02/08/2016	**Yes**	**Ch**	632	Pale brown sandy soil with four fragments of bonded asbestos cement sheeting approx. 7 x 5 x 2 mm.	**0.0956**	**0.015**	0.632	No	<0.01	<0.1
	G09_AF_10	02/08/2016	**No***	**Ch**	627	Sandy soil with plant matter and four asbestos containing fibro fragments approximately 6 x 2 x 1mm	**0.0022**	<0.001	0.627	No	<0.01	<0.1
	G09_AF_11	**02/08/2016**	**No***	**Ch**	539	Sandy soil with plant matter and two asbestos containing fibro fragments approximately 5 x 2 x 1mm	**0.0016**	<0.001	0.539	No	<0.01	<0.1
	G09_AF_12	02/08/2016	**No***	**Ch**	533	Sandy soil with plant matter and two asbestos containing fibro fragments approximately 5 x 4 x 1mm	**0.0041**	<0.001	0.533	No	<0.01	<0.1
	G09_AF_14	**02/08/2016**	**No**	-	490	Sandy soil with plant matter	<0.0004	<0.001	0.490	No	<0.01	<0.1
	G09_AF_15	**02/08/2016**	**No***	**Ch**	595	Sandy soil with plant matter and an asbestos containing fibro fragment approximately 3 x 2 x 1mm	**0.0013**	<0.001	0.595	No	<0.01	<0.1
G103	G103_AF_01	**02/08/2016**	**No**	-	363	Pale brown sandy soil.	<0.0004	<0.001	0.363	No	<0.01	<0.1
	G103_AF_02	02/08/2016	No	-	396	Pale brown sandy soil.	<0.0004	<0.001	0.396	No	<0.01	<0.1
	G103_AF_03	**02/08/2016**	**No**	-	421	Pale brown sandy soil.	<0.0004	<0.001	0.421	No	<0.01	<0.1
	G103_AF_04	**02/08/2016**	**No**	-	426	Pale brown sandy soil.	<0.0004	<0.001	0.426	No	<0.01	<0.1
	G103_AF_06	**02/08/2016**	**No**	-	431	Pale brown sandy soil.	<0.0004	<0.001	0.431	No	<0.01	<0.1
	G103_AF_07	02/08/2016	No	-	476	Pale brown sandy soil.	<0.0004	<0.001	0.476	No	<0.01	<0.1
	G103_AF_08	02/08/2016	No	-	599	Pale brown sandy soil.	<0.0004	<0.001	0.599	No	<0.01	<0.1
	G103_AF_09	**02/08/2016**	**No**	-	557	Pale brown sandy soil.	<0.0004	<0.001	0.557	No	<0.01	<0.1
G067	G067_AF_01	**02/08/2016**	**No**	-	670	Sandy soil with plant matter and small rocks	<0.0004	<0.001	0.670	No	<0.01	<0.1
	G067_AF_02	02/08/2016	No	-	833	Sandy soil with plant matter and small rocks	<0.0004	<0.001	0.833	No	<0.01	<0.1
	G067_AF_03	**02/08/2016**	**No**	-	692	Sandy soil with plant matter and small rocks and synthetic mineral fibre material	<0.0004	<0.001	0.692	No	<0.01	<0.1
	G067_AF_04	**02/08/2016**	**No**	-	790	Sandy soil with plant matter and small rocks	<0.0004	<0.001	0.790	No	<0.01	<0.1
	G067_AF_05	**02/08/2016**	**No**	-	633	Pale brown sandy soil.	<0.0004	<0.001	0.633	No	<0.01	<0.1
	G067_AF_06	**02/08/2016**	**No**	-	568	Pale brown sandy soil.	<0.0004	<0.001	0.568	No	<0.01	<0.1
	G067_AF_07	02/08/2016	No	-	797	Pale brown sandy soil.	<0.0004	<0.001	0.797	No	<0.01	<0.1
	G067_AF_08	02/08/2016	No	-	553	Pale brown sandy soil.	<0.0004	<0.001	0.553	No	<0.01	<0.1

: Reporting
ghts and percentages are not covered under the scope of ALS NATA accreditation.
(brown asbestos)
e (blue asbestos)
e (white asbestos)
is detected by polarised light microscopy including dispersion staining.
estos found, at the reporting limit of 0.1g/kg, by polarised light microscopy including dispersion staining. Asbestos material was detected and positively identified at concentrations estimated to be below 0.1g/kg.

Appendix K: Lab Certificates

ALS Environmental

CERTIFICATE OF ANALYSIS

Work Order	: **EP1606748**	Page	: 1 of 13
Client	: **SENVERSA PTY LTD**	Laboratory	: Environmental Division Perth
Contact	: MS ASHTON BETTI	Contact	: Carol Walsh
Address	: LEVEL 25, 108 ST GEORGES TERRACE PERTH 6000	Address	: 10 Hod Way Malaga WA Australia 6090
Telephone	: +61 08 6557 8881	Telephone	: +61-3-8549 9608
Project	: P1193502 Wedge and Grey	Date Samples Received	: 26-Jul-2016 13:00
Order number	: ----	Date Analysis Commenced	: 03-Aug-2016
C-O-C number	: ----	Issue Date	: 04-Aug-2016 09:05
Sampler	: SARAH HORGAN		
Site	: ----		
Quote number	: ----		
No. of samples received	: 61		
No. of samples analysed	: 38		

NATA Accredited Laboratory 825
Accredited for compliance with ISO/IEC 17025.

NATA
WORLD RECOGNISED ACCREDITATION

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Descriptive Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Anandaraj Ramanujam	Senior Analyst	Melbourne Asbestos, Springvale, VIC

General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contact for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
ø = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

- EA200 was conducted by ALS Melbourne, NATA accreditation no. 825, site no 13778
- EA200: Asbestos Identification Samples were analysed by Polarised Light Microscopy including dispersion staining.
- EA200: Negative results for vinyl tiles should be confirmed by an independent analytical technique.
- EA200 Legend
- EA200 'Am' Amosite (brown asbestos)
- EA200 'Ch' Chrysotile (white asbestos)
- EA200 'Cr' Crocidolite (blue asbestos)
- EA200: 'UMF' Unknown Mineral Fibres. "-" indicates fibres detected may or may not be asbestos fibres. Confirmation by alternative techniques is recommended.
- EA200N: Asbestos weights and percentages are not covered under the Scope of NATA Accreditation.
  Weights of Asbestos are based on extracted bulk asbestos, fibre bundles, and/or ACM and do not include respirable fibres (if present)
  The Friable Asbestos weight is calculated from the extracted Fibrous Asbestos and Asbestos Fines as an equivalent weight of 100% Asbestos
  Percentages for Asbestos content in ACM are based on the 2013 NEPM default values.
  All calculations of percentage Asbestos under this method are approximate and should be used as a guide only.
- EA200 'Trace' - Asbestos fibres ("Free Fibres") detected by trace analysis per AS4964. The result can be interpreted that the sample contains detectable 'respirable' asbestos fibres
- EA200N: ALS laboratory procedures and methods used for the identification and quantitation of asbestos are consistent with AS4964-2004 and the requirements of the 2013 NEPM for Assessment of Site Contamination
- EA200: For samples larger than 30g, the <2mm fraction may be sub-sampled prior to trace analysis as outlined in ISO23909:2008(E) Sect 6.3.2-2

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	W6_W13_AF_01	W6_W13_AF_02	W6_W13_AF_03	W6_W13_AF_04	W6_W13_AF_05
			Client sampling date / time	[25-Jul-2016]	[25-Jul-2016]	[25-Jul-2016]	[25-Jul-2016]	[25-Jul-2016]
Compound	CAS Number	LOR	Unit	EP1606748-001	EP1606748-002	EP1606748-003	EP1606748-004	EP1606748-005
				Result	Result	Result	Result	Result
EA200: AS 4964 - 2004 Identification of Asbestos in Soils								
Asbestos Detected	1332-21-4	0.1	g/kg	**Yes**	**Yes**	**No**	**No**	**No**
Asbestos Type	1332-21-4	-	--	**Ch**	**Ch+Am**	**-**	**-**	**-**
Sample weight (dry)	----	0.01	g	**363**	**370**	**331**	**408**	**426**
APPROVED IDENTIFIER:	----	-	--	**Anand.Ramanujam**	**Anand.Ramanujam**	**Anand.Ramanujam**	**Anand.Ramanujam**	**Anand.Ramanujam**
EA200F: Friable Asbestos in Soil (non-NATA)								
Free Fibres	----	5	Fibres	**No**	**No**	**No**	**No**	**No**
Friable Asbestos	1332-21-4	0.0004	g	**0.0010**	**0.0020**	<0.0004	<0.0004	<0.0004
Friable Asbestos (as Asbestos in Soil)	1332-21-4	0.001	% (w/w)	<0.001	<0.001	<0.001	<0.001	<0.001
Weight Used for % Calculation	----	0.0001	kg	**0.363**	**0.370**	**0.331**	**0.408**	**0.426**
EA200N: ACM Asbestos in Soil (non-NATA)								
Asbestos Containing Material	1332-21-4	0.1	g	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos Containing Material (as 15% Asbestos in ACM >7mm)	1332-21-4	0.01	% (w/w)	<0.01	<0.01	<0.01	<0.01	<0.01

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	W6_W13_AF_06	W6_W13_AF_10	W6_W13_AF_11	W6_W13_AF_12	W16_W170_AF_01
			Client sampling date / time	[25-Jul-2016]	[25-Jul-2016]	[25-Jul-2016]	[25-Jul-2016]	[25-Jul-2016]
Compound	CAS Number	LOR	Unit	EP1606748-006	EP1606748-010	EP1606748-011	EP1606748-012	EP1606748-017
				Result	Result	Result	Result	Result
EA200: AS 4964 - 2004 Identification of Asbestos in Soils								
Asbestos Detected	1332-21-4	0.1	g/kg	**No**	**No**	**Yes**	**Yes**	**No**
Asbestos Type	1332-21-4	-	--	**-**	**-**	**Ch+Am**	**Ch+Am**	**-**
Sample weight (dry)	----	0.01	g	**286**	**353**	**403**	**312**	**389**
APPROVED IDENTIFIER:	----	-	--	**Anand.Ramanujam**	**Anand.Ramanujam**	**Anand.Ramanujam**	**Anand.Ramanujam**	**Anand.Ramanujam**
EA200F: Friable Asbestos in Soil (non-NATA)								
Free Fibres	----	5	Fibres	**No**	**No**	**No**	**No**	**No**
Friable Asbestos	1332-21-4	0.0004	g	<0.0004	<0.0004	**0.0036**	**0.0080**	<0.0004
Friable Asbestos (as Asbestos in Soil)	1332-21-4	0.001	% (w/w)	<0.001	<0.001	<0.001	**0.002**	<0.001
Weight Used for % Calculation	----	0.0001	kg	**0.286**	**0.353**	**0.403**	**0.312**	**0.389**
EA200N: ACM Asbestos in Soil (non-NATA)								
Asbestos Containing Material	1332-21-4	0.1	g	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos Containing Material (as 15% Asbestos in ACM >7mm)	1332-21-4	0.01	% (w/w)	<0.01	<0.01	<0.01	<0.01	<0.01

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	W16_W170_AF_02	W16_W170_AF_03	W16_W170_AF_04	W16_W170_AF_05	W16_W170_AF_10
			Client sampling date / time	[25-Jul-2016]	[25-Jul-2016]	[25-Jul-2016]	[25-Jul-2016]	[25-Jul-2016]
Compound	CAS Number	LOR	Unit	EP1606748-018	EP1606748-019	EP1606748-020	EP1606748-021	EP1606748-026
				Result	Result	Result	Result	Result
EA200: AS 4964 - 2004 Identification of Asbestos in Soils								
Asbestos Detected	1332-21-4	0.1	g/kg	**No**	**No**	**No**	**No**	**No**
Asbestos Type	1332-21-4	-	--	**-**	**-**	**-**	**-**	**-**
Sample weight (dry)	----	0.01	g	**351**	**505**	**452**	**447**	**392**
APPROVED IDENTIFIER:	----	-	--	**Anand.Ramanujam**	**Anand.Ramanujam**	**Anand.Ramanujam**	**Anand.Ramanujam**	**Anand.Ramanujam**
EA200F: Friable Asbestos in Soil (non-NATA)								
Free Fibres	----	5	Fibres	**No**	**No**	**No**	**No**	**No**
Friable Asbestos	1332-21-4	0.0004	g	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
Friable Asbestos (as Asbestos in Soil)	1332-21-4	0.001	% (w/w)	<0.001	<0.001	<0.001	<0.001	<0.001
Weight Used for % Calculation	----	0.0001	kg	**0.351**	**0.505**	**0.452**	**0.447**	**0.392**
EA200N: ACM Asbestos in Soil (non-NATA)								
Asbestos Containing Material	1332-21-4	0.1	g	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos Containing Material (as 15% Asbestos in ACM >7mm)	1332-21-4	0.01	% (w/w)	<0.01	<0.01	<0.01	<0.01	<0.01

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	W16_W170_AF_11	W16_W170_AF_12	W16_W170_AF_13	W16_W162_AF_01	W16_W162_AF_02
			Client sampling date / time	[25-Jul-2016]	[25-Jul-2016]	[25-Jul-2016]	[25-Jul-2016]	[25-Jul-2016]
Compound	CAS Number	LOR	Unit	EP1606748-027	EP1606748-028	EP1606748-029	EP1606748-032	EP1606748-033
				Result	Result	Result	Result	Result
EA200: AS 4964 - 2004 Identification of Asbestos in Soils								
Asbestos Detected	1332-21-4	0.1	g/kg	**No**	**No**	**No**	**Yes**	**No**
Asbestos Type	1332-21-4	-	--	**-**	**-**	**-**	**Ch+Am**	**-**
Sample weight (dry)	----	0.01	g	**513**	**487**	**450**	**471**	**444**
APPROVED IDENTIFIER:	----	-	--	**Anand.Ramanujam**	**Anand.Ramanujam**	**Anand.Ramanujam**	**Anand.Ramanujam**	**Anand.Ramanujam**
EA200F: Friable Asbestos in Soil (non-NATA)								
Free Fibres	----	5	Fibres	**No**	**No**	**No**	**No**	**No**
Friable Asbestos	1332-21-4	0.0004	g	<0.0004	<0.0004	<0.0004	**0.0106**	<0.0004
Friable Asbestos (as Asbestos in Soil)	1332-21-4	0.001	% (w/w)	<0.001	<0.001	<0.001	**0.002**	<0.001
Weight Used for % Calculation	----	0.0001	kg	**0.513**	**0.487**	**0.450**	**0.471**	**0.444**
EA200N: ACM Asbestos in Soil (non-NATA)								
Asbestos Containing Material	1332-21-4	0.1	g	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos Containing Material (as 15% Asbestos in ACM >7mm)	1332-21-4	0.01	% (w/w)	<0.01	<0.01	<0.01	<0.01	<0.01

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	W16_W162_AF_03	W16_W162_AF_04	W16_W162_AF_05	W16_W162_AF_06	W16_W162_AF_07
			Client sampling date / time	[25-Jul-2016]	[25-Jul-2016]	[25-Jul-2016]	[25-Jul-2016]	[25-Jul-2016]
Compound	CAS Number	LOR	Unit	EP1606748-034	EP1606748-035	EP1606748-036	EP1606748-037	EP1606748-038
				Result	Result	Result	Result	Result
EA200: AS 4964 - 2004 Identification of Asbestos in Soils								
Asbestos Detected	1332-21-4	0.1	g/kg	**No**	**No**	**No**	**No**	**No**
Asbestos Type	1332-21-4	-	--	**-**	**-**	**-**	**-**	**-**
Sample weight (dry)	----	0.01	g	**453**	**330**	**448**	**530**	**529**
APPROVED IDENTIFIER:	----	-	--	**Anand.Ramanujam**	**Anand.Ramanujam**	**Anand.Ramanujam**	**Anand.Ramanujam**	**Anand.Ramanujam**
EA200F: Friable Asbestos in Soil (non-NATA)								
Free Fibres	----	5	Fibres	**No**	**No**	**No**	**No**	**No**
Friable Asbestos	1332-21-4	0.0004	g	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
Friable Asbestos (as Asbestos in Soil)	1332-21-4	0.001	% (w/w)	<0.001	<0.001	<0.001	<0.001	<0.001
Weight Used for % Calculation	----	0.0001	kg	**0.453**	**0.330**	**0.448**	**0.530**	**0.529**
EA200N: ACM Asbestos in Soil (non-NATA)								
Asbestos Containing Material	1332-21-4	0.1	g	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos Containing Material (as 15% Asbestos in ACM >7mm)	1332-21-4	0.01	% (w/w)	<0.01	<0.01	<0.01	<0.01	<0.01

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	W16_W162_AF_08	W16_W162_AF_14	W16_W162_AF_15	W4_W99_AF_01	W4_W99_AF_02
				Client sampling date / time	[25-Jul-2016]	[25-Jul-2016]	[25-Jul-2016]	[25-Jul-2016]	[25-Jul-2016]
Compound	CAS Number	LOR	Unit		EP1606748-039	EP1606748-045	EP1606748-046	EP1606748-047	EP1606748-048
					Result	Result	Result	Result	Result
EA200: AS 4964 - 2004 Identification of Asbestos in Soils									
Asbestos Detected	1332-21-4	0.1	g/kg		**No**	**No**	**No**	**Yes**	**Yes**
Asbestos Type	1332-21-4	-	--		**-**	**-**	**-**	**Ch+Am**	**Ch+Am**
Sample weight (dry)	----	0.01	g		**342**	**467**	**480**	**474**	**354**
APPROVED IDENTIFIER:	----	-	--		**Anand.Ramanujam**	**Anand.Ramanujam**	**Anand.Ramanujam**	**Anand.Ramanujam**	**Anand.Ramanujam**
EA200F: Friable Asbestos in Soil (non-NATA)									
Free Fibres	----	5	Fibres		**No**	**No**	**No**	**No**	**No**
Friable Asbestos	1332-21-4	0.0004	g		<0.0004	<0.0004	<0.0004	**0.0043**	**0.0043**
Friable Asbestos (as Asbestos in Soil)	1332-21-4	0.001	% (w/w)		<0.001	<0.001	<0.001	<0.001	**0.001**
Weight Used for % Calculation	----	0.0001	kg		**0.342**	**0.467**	**0.480**	**0.474**	**0.354**
EA200N: ACM Asbestos in Soil (non-NATA)									
Asbestos Containing Material	1332-21-4	0.1	g		<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos Containing Material (as 15% Asbestos in ACM >7mm)	1332-21-4	0.01	% (w/w)		<0.01	<0.01	<0.01	<0.01	<0.01

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	W4_W99_AF_03	W4_W99_AF_04	W4_W99_AF_05	W4_W99_AF_06	W4_W99_AF_07
			Client sampling date / time	[25-Jul-2016]	[25-Jul-2016]	[25-Jul-2016]	[25-Jul-2016]	[25-Jul-2016]
Compound	CAS Number	LOR	Unit	EP1606748-049	EP1606748-050	EP1606748-051	EP1606748-052	EP1606748-053
				Result	Result	Result	Result	Result
EA200: AS 4964 - 2004 Identification of Asbestos in Soils								
Asbestos Detected	1332-21-4	0.1	g/kg	**Yes**	**Yes**	**Yes**	**No**	**Yes**
Asbestos Type	1332-21-4	-	--	**Ch**	**Ch**	**Ch**	**-**	**Ch**
Sample weight (dry)	----	0.01	g	**474**	**432**	**341**	**270**	**427**
APPROVED IDENTIFIER:	----	-	--	**Anand.Ramanujam**	**Anand.Ramanujam**	**Anand.Ramanujam**	**Anand.Ramanujam**	**Anand.Ramanujam**
EA200F: Friable Asbestos in Soil (non-NATA)								
Free Fibres	----	5	Fibres	**No**	**No**	**No**	**No**	**No**
Friable Asbestos	1332-21-4	0.0004	g	**0.0010**	**0.0092**	**0.0033**	<0.0004	**0.0019**
Friable Asbestos (as Asbestos in Soil)	1332-21-4	0.001	% (w/w)	<0.001	**0.002**	<0.001	<0.001	<0.001
Weight Used for % Calculation	----	0.0001	kg	**0.474**	**0.432**	**0.341**	**0.270**	**0.427**
EA200N: ACM Asbestos in Soil (non-NATA)								
Asbestos Containing Material	1332-21-4	0.1	g	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos Containing Material (as 15% Asbestos in ACM >7mm)	1332-21-4	0.01	% (w/w)	<0.01	<0.01	<0.01	<0.01	<0.01

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	W4_W99_AF_13	W4_W99_AF_14	----	----	----
			Client sampling date / time	[25-Jul-2016]	[25-Jul-2016]	----	----	----
Compound	CAS Number	LOR	Unit	EP1606748-059	EP1606748-060	--------	--------	--------
				Result	Result	----	----	----
EA200: AS 4964 - 2004 Identification of Asbestos in Soils								
Asbestos Detected	1332-21-4	0.1	g/kg	**No**	**No**	----	----	----
Asbestos Type	1332-21-4	-	--	**-**	**-**	----	----	----
Sample weight (dry)	----	0.01	g	**411**	**411**	----	----	----
APPROVED IDENTIFIER:	----	-	--	**Anand.Ramanujam**	**Anand.Ramanujam**	----	----	----
EA200F: Friable Asbestos in Soil (non-NATA)								
Free Fibres	----	5	Fibres	**No**	**No**	----	----	----
Friable Asbestos	1332-21-4	0.0004	g	<0.0004	<0.0004	----	----	----
Friable Asbestos (as Asbestos in Soil)	1332-21-4	0.001	% (w/w)	<0.001	<0.001	----	----	----
Weight Used for % Calculation	----	0.0001	kg	**0.411**	**0.411**	----	----	----
EA200N: ACM Asbestos in Soil (non-NATA)								
Asbestos Containing Material	1332-21-4	0.1	g	<0.1	<0.1	----	----	----
Asbestos Containing Material (as 15% Asbestos in ACM >7mm)	1332-21-4	0.01	% (w/w)	<0.01	<0.01	----	----	----

Analytical Results

Sub-Matrix: SOLID (Matrix: SOLID)			Client sample ID	W2_W32_003	----	----	----	----
			Client sampling date / time	[25-Jul-2016]	----	----	----	----
Compound	CAS Number	LOR	Unit	EP1606748-016	--------	--------	--------	--------
				Result	----	----	----	----
EA200: AS 4964 - 2004 Identification of Asbestos in bulk samples								
Asbestos Detected	1332-21-4	0.1	g/kg	**Yes**	----	----	----	----
Asbestos Type	1332-21-4	-	--	**Ch+Cr**	----	----	----	----
Sample weight (dry)	----	0.01	g	**138**	----	----	----	----
APPROVED IDENTIFIER:	----	-	--	**Anand.Ramanujam**	----	----	----	----

Analytical Results

Descriptive Results

Sub-Matrix: **SOIL**

Method: Compound	Client sample ID - Client sampling date / time	Analytical Results
EA200: AS 4964 - 2004 Identification of Asbestos in Soils		
EA200: Description	W6_W13_AF_01 - [25-Jul-2016]	Sandy soil with plant matter and three asbestos containing fibre bundles approximately 4 x 1 x 0.2mm
EA200: Description	W6_W13_AF_02 - [25-Jul-2016]	Sandy soil with plant matter and an asbestos containing fibre bundle approximately 5 x 1 x 0.2mm
EA200: Description	W6_W13_AF_03 - [25-Jul-2016]	Sandy soil with plant matter
EA200: Description	W6_W13_AF_04 - [25-Jul-2016]	Sandy soil with plant matter
EA200: Description	W6_W13_AF_05 - [25-Jul-2016]	Sandy soil with plant matter
EA200: Description	W6_W13_AF_06 - [25-Jul-2016]	Sandy soil with plant matter
EA200: Description	W6_W13_AF_10 - [25-Jul-2016]	Sandy soil with plant matter
EA200: Description	W6_W13_AF_11 - [25-Jul-2016]	Sandy soil with plant matter and an asbestos containing fibrous material approximately 4 x 2 x 0.5mm
EA200: Description	W6_W13_AF_12 - [25-Jul-2016]	Sandy soil with plant matter and an asbestos containing fibrous material approximately 10 x 4 x 1mm
EA200: Description	W16_W170_AF_01 - [25-Jul-2016]	Sandy soil with plant matter
EA200: Description	W16_W170_AF_02 - [25-Jul-2016]	Sandy soil with plant matter
EA200: Description	W16_W170_AF_03 - [25-Jul-2016]	Sandy soil with plant matter
EA200: Description	W16_W170_AF_04 - [25-Jul-2016]	Sandy soil with plant matter
EA200: Description	W16_W170_AF_05 - [25-Jul-2016]	Sandy soil with plant matter
EA200: Description	W16_W170_AF_10 - [25-Jul-2016]	Sandy soil with plant matter
EA200: Description	W16_W170_AF_11 - [25-Jul-2016]	Sandy soil with plant matter
EA200: Description	W16_W170_AF_12 - [25-Jul-2016]	Sandy soil with plant matter
EA200: Description	W16_W170_AF_13 - [25-Jul-2016]	Sandy soil with plant matter
EA200: Description	W16_W162_AF_01 - [25-Jul-2016]	Sandy soil with plant matter and synthetic mineral fibres and an asbestos containing fibro fragment approximately 10 x 5 x 1mm
EA200: Description	W16_W162_AF_02 - [25-Jul-2016]	Sandy soil with plant matter
EA200: Description	W16_W162_AF_03 - [25-Jul-2016]	Sandy soil with plant matter
EA200: Description	W16_W162_AF_04 - [25-Jul-2016]	Sandy soil with plant matter
EA200: Description	W16_W162_AF_05 - [25-Jul-2016]	Sandy soil with plant matter
EA200: Description	W16_W162_AF_06 - [25-Jul-2016]	Sandy soil with plant matter
EA200: Description	W16_W162_AF_07 - [25-Jul-2016]	Sandy soil with plant matter
EA200: Description	W16_W162_AF_08 - [25-Jul-2016]	Sandy soil with plant matter
EA200: Description	W16_W162_AF_14 - [25-Jul-2016]	Sandy soil with plant matter
EA200: Description	W16_W162_AF_15 - [25-Jul-2016]	Sandy soil with plant matter
EA200: Description	W4_W99_AF_01 - [25-Jul-2016]	Sandy soil with plant matter and three asbestos containing fibro fragments approximately 3 x 2 x 1mm
EA200: Description	W4_W99_AF_02 - [25-Jul-2016]	Sandy soil with plant matter and three asbestos containing fibro fragments approximately 5 x 4 x 1mm
EA200: Description	W4_W99_AF_03 - [25-Jul-2016]	Sandy soil with plant matter and three asbestos containing fibre bundles approximately 2 x 2 x 0.2mm
EA200: Description	W4_W99_AF_04 - [25-Jul-2016]	Sandy soil with plant matter and four asbestos containing fibre bundles approximately 2 x 1 x 0.2mm
EA200: Description	W4_W99_AF_05 - [25-Jul-2016]	Sandy soil with plant matter and synthetic mineral fibres and two asbestos containing fibre bundles approximately 2 x 0.3 x 0.2mm
EA200: Description	W4_W99_AF_06 - [25-Jul-2016]	Sandy soil with plant matter
EA200: Description	W4_W99_AF_07 - [25-Jul-2016]	Sandy soil with plant matter and more than five asbestos containing fibre bundles approximately 5 x 1 x 0.2mm
EA200: Description	W4_W99_AF_13 - [25-Jul-2016]	Sandy soil with plant matter

Sub-Matrix: **SOIL**

Method: Compound	*Client sample ID - Client sampling date / time*	*Analytical Results*
EA200: Description	W4_W99_AF_14 - [25-Jul-2016]	Sandy soil with plant matter

Sub-Matrix: **SOLID**

Method: Compound	*Client sample ID - Client sampling date / time*	*Analytical Results*
EA200: AS 4964 - 2004 Identification of Asbestos in bulk samples		
EA200: Description	W2_W32_003 - [25-Jul-2016]	A piece of asbestos containing fibro cement sheet approximately 125 x 90 x 5mm

ALS Environmental

QUALITY CONTROL REPORT

Work Order	: **EP1606748**	Page	: 1 of 3
Client	: **SENVERSA PTY LTD**	Laboratory	: Environmental Division Perth
Contact	: MS ASHTON BETTI	Contact	: Carol Walsh
Address	: LEVEL 25, 108 ST GEORGES TERRACE PERTH 6000	Address	: 10 Hod Way Malaga WA Australia 6090
Telephone	: +61 08 6557 8881	Telephone	: +61-3-8549 9608
Project	: P1193502 Wedge and Grey	Date Samples Received	: 26-Jul-2016
Order number	: ----	Date Analysis Commenced	: 03-Aug-2016
C-O-C number	: ----	Issue Date	: 04-Aug-2016
Sampler	: SARAH HORGAN		
Site	: ----		
Quote number	: ----		
No. of samples received	: 61		
No. of samples analysed	: 38		

NATA Accredited Laboratory 825
Accredited for compliance with
ISO/IEC 17025.

NATA
WORLD RECOGNISED ACCREDITATION

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Anandaraj Ramanujam	Senior Analyst	Melbourne Asbestos, Springvale, VIC

General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis. Where the LOR of a reported result differs from standard LOR, this may be due to high

Key : Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot
CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
RPD = Relative Percentage Difference
# = Indicates failed QC

Laboratory Duplicate (DUP) Report

The quality control term Laboratory Duplicate refers to a randomly selected intralaboratory split. Laboratory duplicates provide information regarding method precision and sample heterogeneity. The permitted ranges for the Relative Percent Deviation (RPD) of Laboratory Duplicates are specified in ALS Method QWI-EN/38 and are dependent on the magnitude of results in comparison to the level of reporting: Result < 10 times LOR: No Limit; Result between 10 and 20 times LOR: 0% - 50%; Result > 20 times LOR: 0% - 20%.

- **No Laboratory Duplicate (DUP) Results are required to be reported.**

Method Blank (MB) and Laboratory Control Spike (LCS) Report

The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC parameter is to monitor potential laboratory contamination. The quality control term Laboratory Control Spike (LCS) refers to a certified reference material, or a known interference free matrix spiked with target analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS.

- **No Method Blank (MB) or Laboratory Control Spike (LCS) Results are required to be reported.**

Matrix Spike (MS) Report

The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

- **No Matrix Spike (MS) or Matrix Spike Duplicate (MSD) Results are required to be reported.**

ALS Environmental

QA/QC Compliance Assessment to assist with Quality Review

Work Order	: **EP1606748**	Page	: 1 of 6
Client	: **SENVERSA PTY LTD**	Laboratory	: Environmental Division Perth
Contact	: MS ASHTON BETTI	Telephone	: +61-3-8549 9608
Project	: P1193502 Wedge and Grey	Date Samples Received	: 26-Jul-2016
Site	: ----	Issue Date	: 04-Aug-2016
Sampler	: SARAH HORGAN	No. of samples received	: 61
Order number	: ----	No. of samples analysed	: 38

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.

Brief method summaries and references are also provided to assist in traceability.

Summary of Outliers

Outliers : Quality Control Samples

This report highlights outliers flagged in the Quality Control (QC) Report.

- **NO Method Blank value outliers occur.**
- **NO Duplicate outliers occur.**
- **NO Laboratory Control outliers occur.**
- **NO Matrix Spike outliers occur.**
- **For all regular sample matrices, NO surrogate recovery outliers occur.**

Outliers : Analysis Holding Time Compliance

- **NO Analysis Holding Time Outliers exist.**

Outliers : Frequency of Quality Control Samples

- **NO Quality Control Sample Frequency Outliers exist.**

Analysis Holding Time Compliance

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results.

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein.

Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 28 days & other metals 180 days. A recorded breach does not guarantee a breach for all non-volatile parameters.

Holding times for ***VOC in soils*** vary according to analytes of interest. Vinyl Chloride and Styrene holding time is 7 days; others 14 days. A recorded breach does not guarantee a breach for all VOC analytes and should be verified in case the reported breach is a false positive or Vinyl Chloride and Styrene are not key analytes of interest/concern.

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EA200: AS 4964 - 2004 Identification of Asbestos in Soils							
Snap Lock Bag - Friable Asbestos/PSD Bag (EA200)							
W6_W13_AF_01, W6_W13_AF_02, W6_W13_AF_03, W6_W13_AF_04, W6_W13_AF_05, W6_W13_AF_06, W6_W13_AF_10, W6_W13_AF_11, W6_W13_AF_12, W16_W170_AF_01, W16_W170_AF_02, W16_W170_AF_03, W16_W170_AF_04, W16_W170_AF_05, W16_W170_AF_10, W16_W170_AF_11, W4_W99_AF_01, W16_W170_AF_12, W16_W170_AF_13, W16_W162_AF_01, W16_W162_AF_02, W16_W162_AF_03, W16_W162_AF_04, W16_W162_AF_05, W16_W162_AF_06, W16_W162_AF_07, W16_W162_AF_08, W16_W162_AF_14, W16_W162_AF_15, W4_W99_AF_02, W4_W99_AF_03, W4_W99_AF_04, W4_W99_AF_05, W4_W99_AF_06, W4_W99_AF_07, W4_W99_AF_13, W4_W99_AF_14	**25-Jul-2016**	**----**	----	----	**03-Aug-2016**	21-Jan-2017	✓

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EA200F: Friable Asbestos in Soil (non-NATA)							
Snap Lock Bag - Friable Asbestos/PSD Bag (EA200N)							
W6_W13_AF_01, W6_W13_AF_02, W6_W13_AF_03, W6_W13_AF_04, W6_W13_AF_05, W6_W13_AF_06, W6_W13_AF_10, W6_W13_AF_11, W6_W13_AF_12, W16_W170_AF_01, W16_W170_AF_02, W16_W170_AF_03, W16_W170_AF_04, W16_W170_AF_05, W16_W170_AF_10, W16_W170_AF_11, W4_W99_AF_01, W16_W170_AF_12, W16_W170_AF_13, W16_W162_AF_01, W16_W162_AF_02, W16_W162_AF_03, W16_W162_AF_04, W16_W162_AF_05, W16_W162_AF_06, W16_W162_AF_07, W16_W162_AF_08, W16_W162_AF_14, W16_W162_AF_15, W4_W99_AF_02, W4_W99_AF_03, W4_W99_AF_04, W4_W99_AF_05, W4_W99_AF_06, W4_W99_AF_07, W4_W99_AF_13, W4_W99_AF_14	**25-Jul-2016**	**----**	----	----	**03-Aug-2016**	21-Jan-2017	✓
EA200N: ACM Asbestos in Soil (non-NATA)							
Snap Lock Bag - Friable Asbestos/PSD Bag (EA200N)							
W6_W13_AF_01, W6_W13_AF_02, W6_W13_AF_03, W6_W13_AF_04, W6_W13_AF_05, W6_W13_AF_06, W6_W13_AF_10, W6_W13_AF_11, W6_W13_AF_12, W16_W170_AF_01, W16_W170_AF_02, W16_W170_AF_03, W16_W170_AF_04, W16_W170_AF_05, W16_W170_AF_10, W16_W170_AF_11, W4_W99_AF_01, W16_W170_AF_12, W16_W170_AF_13, W16_W162_AF_01, W16_W162_AF_02, W16_W162_AF_03, W16_W162_AF_04, W16_W162_AF_05, W16_W162_AF_06, W16_W162_AF_07, W16_W162_AF_08, W16_W162_AF_14, W16_W162_AF_15, W4_W99_AF_02, W4_W99_AF_03, W4_W99_AF_04, W4_W99_AF_05, W4_W99_AF_06, W4_W99_AF_07, W4_W99_AF_13, W4_W99_AF_14	**25-Jul-2016**	**----**	----	----	**03-Aug-2016**	21-Jan-2017	✓

Matrix: **SOLID**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EA200: AS 4964 - 2004 Identification of Asbestos in bulk samples							
Snap Lock Bag - ACM/Asbestos Grab Bag (EA200)							
W2_W32_003	**25-Jul-2016**	**----**	----	----	**03-Aug-2016**	21-Jan-2017	✓

Quality Control Parameter Frequency Compliance

- **No Quality Control data available for this section.**

Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

Analytical Methods	Method	Matrix	Method Descriptions
Asbestos Identification in Soils	EA200	SOIL	AS 4964 - 2004 Method for the qualitative identification of asbestos in bulk samples Analysis by Polarised Light Microscopy including dispersion staining
Asbestos Classification and Quantitation per NEPM 2013	EA200N	SOIL	Asbestos Classification and Quantitation per NEPM 2013 with Confirmation of Identification by AS 4964 - 2004 Gravimetric determination of Asbestos Containing Material, Friable Asbestos and sample weight and calculation of percentage concentrations per NEPM protocols. Friable Asbestos is reported as the equivalent weight in the sample received after accounting for sub-sampling (where applicable for the <7mm and/or <2mm fractions).
Asbestos Identification in Bulk Solids	EA200	SOLID	In house: Referenced to AS 4964 - 2004 Method for the qualitative identification of asbestos in bulk samples Analysis by Polarised Light Microscopy including dispersion staining

Chain of Custody Documentation

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Perth WA 6000
Ph: 08 6557 8882 Fax: 03 9606 0074

Laboratory: ALS
Address: 10 Hod Way, Malga
Contact: Adrienne Sanders
Phone: 08 9209 7632

Job Number:	P1193502	**Purchase Order:**	
Project Name:	Wedge and Grey	**Quote No:**	ALS: EP/828/16
Sampled By:	Sarah Horgan	**Turn Around Time:**	Standard
Project Manager:	Ashton Betti	**Page:**	1 of 4
Email Report To:	ashton.betti@senversa.com.au	**Phone/Mobile:**	0421 473 219

Sample Information					Container Information		Analysis Required											Comments: e.g. Highly contaminated sample; hazardous materials present; trace LORs etc.
Lab ID	Sample ID	Matrix *	Date	Time	Type / Code	Total Bottles	HOLD	Asbestos Quantification per NEPM 2013	Asbestos Presence/Absence - Bulk Solids									
1	W6_W13_AF_01	soil	25/07/2016		bag	1		X										
2	W6_W13_AF_02	soil	25/072016		bag	1		X										
3	W6_W13_AF_03	soil	25/072016		bag	1		X										
4	W6_W13_AF_04	soil	25/072016		bag	1		X										
5	W6_W13_AF_05	soil	25/072016		bag	1		X										
6	W6_W13_AF_06	soil	25/072016		bag	1		X										
7	W6_W13_AF_07	soil	25/072016		bag	1	X											
8	W6_W13_AF_08	soil	25/072016		bag	1	X											
9	W6_W13_AF_09	soil	25/072016		bag	1	X											
10	W6_W13_AF_10	soil	25/072016		bag	1		X										
11	W6_W13_AF_11	soil	25/072016		bag	1		X										
12	W6_W13_AF_12	soil	25/072016		bag	1		X										
13	W6_W13_AF_13	soil	25/072016		bag	1	X											
14	W6_W13_AF_14	soil	25/072016		bag	1	X											
15	W6_W13_AF_15	soil	25/072016		bag	1	X											
16	W2_W32_003	bulk sample	25/072016		bag	1			X									

Environmental Division
Perth
Work Order Reference
EP1606748

Telephone : + 61-8-9209 7655

Sampler: I attest that proper field sampling procedures in accordance with Senversa standard procedures and/or project specifications were used during the collection of these samples: | **Sampler Name:** Sarah Horgan | **Signature:** | **Date:** 26/7/16

Relinquished By:		Method of Shipment (if applicable):	Received by:	
Name/Signature:	Date: 26/7/16	Carrier / Reference #:	Name/Signature: M Wetherall	Date: 26/7/16
Of: Senversa	Time: 1300	Date/Time:	Of: ALS	Time: 1300
Name/Signature:	Date:	Carrier / Reference #:	Name/Signature:	Date:
Of:	Time:	Date/Time:	Of:	Time:
Name/Signature:	Date:	Carrier / Reference #:	Name/Signature:	Date:
Of:	Time:	Date/Time:	Of:	Time:

Water Container Codes: P = Unpreserved Plastic; N = Nitric Acid (HNO_3) Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide (NaOH)/Cadmium (Cd) Preserved; S = Sodium Hydroxide Preserved Plastic; STH = Sodium thiosulfate preserved plastic; V = VOA Vial Hydochloric Acid (HCl) Preserved; VS = VOA Vial Sulphuric Preserved; VSA = Sulphuric Preserved Amber Glass; H = HCl Preserved Plastic; HS = HCl Preserved Speciation Bottle; SP = Sulphuric Preserved Plastic; F = Formaldehyde Preserved Glass; Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; UA = Unpreserved Amber Glass; L=Lugol's iodine preserved white plastic bottle; SW= sulfuric acid preserved wide mouth glass jar

Completed by: _____
Checked by: _____

Chain of Custody Documentation

senversa

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Perth WA 6000
Ph: 08 6557 8882 Fax: 03 9606 0074

Laboratory: ALS
Address: 10 Hod Way, Malga
Contact: Adrienne Sanders
Phone: 08 9209 7632

Job Number:	P1193502	**Purchase Order:**	
Project Name:	Wedge and Grey	**Quote No:**	ALS: EP/828/16
Sampled By:	Sarah Horgan	**Turn Around Time:**	Standard
Project Manager:	Ashton Betti	**Page:**	2 of 4
Email Report To:	ashton.betti@senversa.com.au	**Phone/Mobile:**	0421 473 219

Sample Information					Container Information		Analysis Required											Comments: e.g. Highly contaminated sample; hazardous materials present; trace LORs etc.
Lab ID	Sample ID	Matrix *	Date	Time	Type / Code	Total Bottles	HOLD	Asbestos Quantification per NEPM 2013	Asbestos Presence/Absence - Bulk Solids									
17	W16_W170_AF_01	soil	25/07/2016		bag	1		X										
18	W16_W170_AF_02	soil	25/072016		bag	1		X										
19	W16_W170_AF_03	soil	25/072016		bag	1		X										
20	W16_W170_AF_04	soil	25/072016		bag	1		X										
21	W16_W170_AF_05	soil	25/072016		bag	1		X										
22	W16_W170_AF_06	soil	25/072016		bag	1	X											
23	W16_W170_AF_07	soil	25/072016		bag	1	X											
24	W16_W170_AF_08	soil	25/072016		bag	1	X											
25	W16_W170_AF_09	soil	25/072016		bag	1	X											
26	W16_W170_AF_10	soil	25/072016		bag	1		X										
27	W16_W170_AF_11	soil	25/072016		bag	1		X										
28	W16_W170_AF_12	soil	25/072016		bag	1		X										
29	W16_W170_AF_13	soil	25/072016		bag	1		X										
30	W16_W170_AF_14	soil	25/072016		bag	1	X											
31	W16_W170_AF_15	soil	25/072016		bag	1	X											

Sampler: I attest that proper field sampling procedures in accordance with Senversa standard procedures and/or project specifications were used during the collection of these samples:

Sampler Name: Sarah Horgan **Signature:** **Date:** 26/7/16

Relinquished By:		Method of Shipment (if applicable):	Received by:	
Name/Signature:	Date: 26/7/16	Carrier / Reference #:	Name/Signature:	Date: 26/7/16
Of: Senversa	Time: 1300	Date/Time:	Of: ALS	Time: 1300
Name/Signature:	Date:	Carrier / Reference #:	Name/Signature:	Date:
Of:	Time:	Date/Time:	Of:	Time:
Name/Signature:	Date:	Carrier / Reference #:	Name/Signature:	Date:
Of:	Time:	Date/Time:	Of:	Time:

Water Container Codes: P = Unpreserved Plastic; N = Nitric Acid (HNO_3) Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide (NaOH)/Cadmium (Cd) Preserved; S = Sodium Hydroxide Preserved Plastic; STH = Sodium thiosulfate preserved plastic; V = VOA Vial Hydochloric Acid (HCl) Preserved; VS = VOA Vial Sulphuric Preserved; VSA = Sulphuric Preserved Amber Glass; H = HCl Preserved Plastic; HS = HCl Preserved Speciation Bottle; SP = Sulphuric Preserved Plastic; F = Formaldehyde Preserved Glass; Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; UA = Unpreserved Amber Glass; L=Lugol's iodine preserved white plastic bottle; SW= sulfuric acid preserved wide mouth glass jar

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Project Manager:	Ashton Betti	**Page:**	3 of 4
Email Report To:	ashton.betti@senversa.com.au	**Phone/Mobile:**	0421 473 219

	Sample Information				Container Information		Analysis Required											
Lab ID	Sample ID	Matrix *	Date	Time	Type / Code	Total Bottles	HOLD	Asbestos Quantification per NEPM 2013	Asbestos Presence/Absence - Bulk Solids									Comments: e.g. Highly contaminated sample, hazardous materials present, trace LORs etc.
32	W16_W162_AF_01	soil	25/07/2016		bag	1		X										
33	W16_W162_AF_02	soil	25/072016		bag	1		X										
34	W16_W162_AF_03	soil	25/072016		bag	1		X										
35	W16_W162_AF_04	soil	25/072016		bag	1		X										
36	W16_W162_AF_05	soil	25/072016		bag	1		X										
37	W16_W162_AF_06	soil	25/072016		bag	1		X										
38	W16_W162_AF_07	soil	25/072016		bag	1		X										
39	W16_W162_AF_08	soil	25/072016		bag	1		X										
40	W16_W162_AF_09	soil	25/072016		bag	1	X											
41	W16_W162_AF_10	soil	25/072016		bag	1	X											
42	W16_W162_AF_11	soil	25/072016		bag	1	X											
43	W16_W162_AF_12	soil	25/072016		bag	1	X											
44	W16_W162_AF_13	soil	25/072016		bag	1	X											
45	W16_W162_AF_14	soil	25/072016		bag	1		X										
46	W16_W162_AF_15	soil	25/072016		bag	1		X										

Sampler: I attest that proper field sampling procedures in accordance with Senversa standard procedures and/or project specifications were used during the collection of these samples: | **Sampler Name:** Sarah Horgan | **Signature:** | **Date:** 26/7/16

Relinquished By:		**Method of Shipment (if applicable):**	**Received by:**	
Name/Signature:	Date: 26/7/16	Carrier / Reference #:	Name/Signature:	Date: 26/7/16
Of: Senversa	Time: 1300	Date/Time:	Of: ALS	Time: 1300
Name/Signature:	Date:	Carrier / Reference #:	Name/Signature:	Date:
Of:	Time:	Date/Time:	Of:	Time:
Name/Signature:	Date:	Carrier / Reference #:	Name/Signature:	Date:
Of:	Time:	Date/Time:	Of:	Time:

Water Container Codes: P = Unpreserved Plastic; N = Nitric Acid (HNO_3) Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide (NaOH)/Cadmium (Cd) Preserved; S = Sodium Hydroxide Preserved Plastic; STH = Sodium thiosulfate preserved plastic; V = VOA Vial Hydochloric Acid (HCl) Preserved; VS = VOA Vial Sulphuric Preserved; VSA = Sulphuric Preserved Amber Glass; H = HCl Preserved Plastic; HS = HCl Preserved Speciation Bottle; SP = Sulphuric Preserved Plastic; F = Formaldehyde Preserved Glass; Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; UA = Unpreserved Amber Glass; L=Lugol's iodine preserved white plastic bottle; SW= sulfuric acid preserved wide mouth glass jar

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senversa

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Contact: Adrienne Sanders
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Job Number:	P1193502	**Purchase Order:**	
Project Name:	Wedge and Grey	**Quote No:**	ALS: EP/828/16
Sampled By:	Sarah Horgan	**Turn Around Time:**	Standard
Project Manager:	Ashton Betti	**Page:**	4 of 4
Email Report To:	ashton.betti@senversa.com.au	**Phone/Mobile:**	0421 473 219

	Sample Information				Container Information		Analysis Required												Comments: e.g. Highly contaminated sample, hazardous materials present; trace LORs etc
	Lab ID	Sample ID	Matrix *	Date	Time	Type / Code	Total Bottles	HOLD	Asbestos Quantification per NEPM 2013	Asbestos Presence/Absence - Bulk Solids									
47		W4_W99_AF_01	soil	25/07/2016		bag	1		X										
48		W4_W99_AF_02	soil	25/072016		bag	1		X										
49		W4_W99_AF_03	soil	25/072016		bag	1		X										
50		W4_W99_AF_04	soil	25/072016		bag	1		X										
51		W4_W99_AF_05	soil	25/072016		bag	1		X										
52		W4_W99_AF_06	soil	25/072016		bag	1		X										
53		W4_W99_AF_07	soil	25/072016		bag	1		X										
54		W4_W99_AF_08	soil	25/072016		bag	1	X											
55		W4_W99_AF_09	soil	25/072016		bag	1	X											
56		W4_W99_AF_10	soil	25/072016		bag	1	X											
57		W4_W99_AF_11	soil	25/072016		bag	1	X											
58		W4_W99_AF_12	soil	25/072016		bag	1	X											
59		W4_W99_AF_13	soil	25/072016		bag	1		X										
60		W4_W99_AF_14	soil	25/072016		bag	1		X										
61		W4_W99_AF_15	soil	25/072016		bag	1	X											

Sampler: I attest that proper field sampling procedures in accordance with Senversa standard procedures and/or project specifications were used during the collection of these samples:

Sampler Name: Sarah Horgan **Signature:** **Date:** 26/7/16

Relinquished By:		**Method of Shipment (if applicable):**	**Received by:**	
Name/Signature:	Date: 26/7/16	Carrier / Reference #:	Name/Signature:	Date: 26/7/16
Of: Senversa	Time: 1300	Date/Time:	Of: ALS	Time: 1300
Name/Signature:	Date:	Carrier / Reference #:	Name/Signature:	Date:
Of:	Time:	Date/Time:	Of:	Time:
Name/Signature:	Date:	Carrier / Reference #:	Name/Signature:	Date:
Of:	Time:	Date/Time:	Of:	Time:

Water Container Codes: P = Unpreserved Plastic; N = Nitric Acid (HNO_3) Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide (NaOH)/Cadmium (Cd) Preserved; S = Sodium Hydroxide Preserved Plastic; STH = Sodium thiosulfate preserved plastic;
V = VOA Vial Hydochloric Acid (HCl) Preserved; VS = VOA Vial Sulphuric Preserved; VSA = Sulphuric Preserved Amber Glass; H = HCl Preserved Plastic; HS = HCl Preserved Speciation Bottle; SP = Sulphuric Preserved Plastic;
F = Formaldehyde Preserved Glass; Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; UA = Unpreserved Amber Glass; L=Lugol's iodine preserved white plastic bottle; SW= sulfuric acid preserved wide mouth glass jar

Completed by: _____
Checked by: _____

ALS Environmental

CERTIFICATE OF ANALYSIS

Work Order	: **EP1607080**	Page	: 1 of 19
Client	: **SENVERSA PTY LTD**	Laboratory	: Environmental Division Perth
Contact	: MS ASHTON BETTI	Contact	: Carol Walsh
Address	: LEVEL 25, 108 ST GEORGES TERRACE PERTH 6000	Address	: 10 Hod Way Malaga WA Australia 6090
Telephone	: +61 08 6557 8881	Telephone	: +61-3-8549 9608
Project	: P1193502 Wedge and Grey	Date Samples Received	: 03-Aug-2016 16:25
Order number	: ----	Date Analysis Commenced	: 10-Aug-2016
C-O-C number	: ----	Issue Date	: 15-Aug-2016 15:25
Sampler	: ----		
Site	: ----		
Quote number	: ----		
No. of samples received	: 132		
No. of samples analysed	: 72		

NATA Accredited Laboratory 825
Accredited for compliance with
ISO/IEC 17025.

NATA
WORLD RECOGNISED ACCREDITATION

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Descriptive Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Gerrad Morgan	Asbestos Identifier	Newcastle - Asbestos, Mayfield West, NSW
Shaun Spooner	Asbestos Identifier	Newcastle - Asbestos, Mayfield West, NSW

General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contact for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
ø = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

- Asbestos conducted by ALS Melbourne, NATA accreditation no. 825, site no 13778
- Asbestos conducted by ALS Newcastle, NATA accreditation no. 825, site no 1656.
- EA200: Asbestos Identification Samples were analysed by Polarised Light Microscopy including dispersion staining.
- EA200: Negative results for vinyl tiles should be confirmed by an independent analytical technique.
- EA200 Legend
- EA200 'Am' Amosite (brown asbestos)
- EA200 'Ch' Chrysotile (white asbestos)
- EA200 'Cr' Crocidolite (blue asbestos)
- EA200: 'UMF' Unknown Mineral Fibres. "-" indicates fibres detected may or may not be asbestos fibres. Confirmation by alternative techniques is recommended.
- EA200N: Asbestos weights and percentages are not covered under the Scope of NATA Accreditation.
  Weights of Asbestos are based on extracted bulk asbestos, fibre bundles, and/or ACM and do not include respirable fibres (if present)
  The Friable Asbestos weight is calculated from the extracted Fibrous Asbestos and Asbestos Fines as an equivalent weight of 100% Asbestos
  Percentages for Asbestos content in ACM are based on the 2013 NEPM default values.
  All calculations of percentage Asbestos under this method are approximate and should be used as a guide only.
- EA200 'Trace' - Asbestos fibres ("Free Fibres") detected by trace analysis per AS4964. The result can be interpreted that the sample contains detectable 'respirable' asbestos fibres
- EA200N: ALS laboratory procedures and methods used for the identification and quantitation of asbestos are consistent with AS4964-2004 and the requirements of the 2013 NEPM for Assessment of Site Contamination
- EA200: For samples larger than 30g, the <2mm fraction may be sub-sampled prior to trace analysis as outlined in ISO23909:2008(E) Sect 6.3.2-2
- EA200: 'Yes' - Asbestos detected by polarised light microscopy including dispersion staining.
- EA200: 'No*' - No asbestos found, at the reporting limit of 0.1g/kg, by polarised light microscopy including dispersion staining. Asbestos material was detected and positively identified at concentrations estimated to be below 0.1g/kg.
- EA200: 'No' - No asbestos found at the reporting limit 0.1g/kg, by polarised light microscopy including dispersion staining.

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	W149_AF_01	W149_AF_02	W149_AF_03	W149_AF_04	W149_AF_05
			Client sampling date / time	[02-Aug-2016]	[02-Aug-2016]	[02-Aug-2016]	[02-Aug-2016]	[02-Aug-2016]
Compound	CAS Number	LOR	Unit	EP1607080-001	EP1607080-002	EP1607080-003	EP1607080-004	EP1607080-005
				Result	Result	Result	Result	Result
EA200: AS 4964 - 2004 Identification of Asbestos in Soils								
Asbestos Detected	1332-21-4	0.1	g/kg	**No**	**No***	**Yes**	**No**	**No**
Asbestos Type	1332-21-4	-	--	**-**	**Ch + Am**	**Ch + Am**	**-**	**-**
Sample weight (dry)	----	0.01	g	**337**	**519**	**466**	**400**	**569**
APPROVED IDENTIFIER:	----	-	--	**S.SPOONER**	**S.SPOONER**	**S.SPOONER**	**S.SPOONER**	**S.SPOONER**
EA200F: Friable Asbestos in Soil (non-NATA)								
ø **Free Fibres**	----	5	Fibres	**No**	**No**	**No**	**No**	**No**
ø **Friable Asbestos**	1332-21-4	0.0004	g	<0.0004	**0.0353**	**0.0530**	<0.0004	<0.0004
ø **Friable Asbestos (as Asbestos in Soil)**	1332-21-4	0.001	% (w/w)	<0.001	**0.007**	**0.011**	<0.001	<0.001
ø **Weight Used for % Calculation**	----	0.0001	kg	**0.337**	**0.519**	**0.466**	**0.400**	**0.569**
EA200N: ACM Asbestos in Soil (non-NATA)								
ø **Asbestos Containing Material**	1332-21-4	0.1	g	<0.1	<0.1	**0.6**	<0.1	<0.1
ø **Asbestos Containing Material (as 15% Asbestos in ACM >7mm)**	1332-21-4	0.01	% (w/w)	<0.01	<0.01	**0.02**	<0.01	<0.01

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	W149_AF_06	W245_AF_01	W245_AF_02	W245_AF_03	W245_AF_04
			Client sampling date / time	[02-Aug-2016]	[02-Aug-2016]	[02-Aug-2016]	[02-Aug-2016]	[02-Aug-2016]
Compound	CAS Number	LOR	Unit	EP1607080-006	EP1607080-021	EP1607080-022	EP1607080-023	EP1607080-024
				Result	Result	Result	Result	Result
EA200: AS 4964 - 2004 Identification of Asbestos in Soils								
Asbestos Detected	1332-21-4	0.1	g/kg	**No**	**No***	**No**	**No**	**No**
Asbestos Type	1332-21-4	-	--	**-**	**Ch + Am**	**-**	**-**	**-**
Sample weight (dry)	----	0.01	g	**448**	**510**	**423**	**327**	**343**
APPROVED IDENTIFIER:	----	-	--	**S.SPOONER**	**S.SPOONER**	**S.SPOONER**	**S.SPOONER**	**S.SPOONER**
EA200F: Friable Asbestos in Soil (non-NATA)								
ø **Free Fibres**	----	5	Fibres	**No**	**No**	**No**	**No**	**No**
ø **Friable Asbestos**	1332-21-4	0.0004	g	<0.0004	**0.0308**	<0.0004	<0.0004	<0.0004
ø **Friable Asbestos (as Asbestos in Soil)**	1332-21-4	0.001	% (w/w)	<0.001	**0.006**	<0.001	<0.001	<0.001
ø **Weight Used for % Calculation**	----	0.0001	kg	**0.448**	**0.510**	**0.423**	**0.327**	**0.343**
EA200N: ACM Asbestos in Soil (non-NATA)								
ø **Asbestos Containing Material**	1332-21-4	0.1	g	<0.1	<0.1	<0.1	<0.1	<0.1
ø **Asbestos Containing Material (as 15% Asbestos in ACM >7mm)**	1332-21-4	0.01	% (w/w)	<0.01	<0.01	<0.01	<0.01	<0.01

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	W245_AF_05	W245_AF_06	W245_AF_11	G009_AF_01	G009_AF_02
			Client sampling date / time	[02-Aug-2016]	[02-Aug-2016]	[02-Aug-2016]	[02-Aug-2016]	[02-Aug-2016]
Compound	CAS Number	LOR	Unit	EP1607080-025	EP1607080-026	EP1607080-031	EP1607080-040	EP1607080-041
				Result	Result	Result	Result	Result
EA200: AS 4964 - 2004 Identification of Asbestos in Soils								
Asbestos Detected	1332-21-4	0.1	g/kg	**No**	**No**	**No**	**No**	**No**
Asbestos Type	1332-21-4	-	--	**-**	**-**	**-**	**-**	**-**
Sample weight (dry)	----	0.01	g	**430**	**290**	**425**	**547**	**526**
APPROVED IDENTIFIER:	----	-	--	**S.SPOONER**	**S.SPOONER**	**S.SPOONER**	**S.SPOONER**	**S.SPOONER**
EA200F: Friable Asbestos in Soil (non-NATA)								
ø **Free Fibres**	----	5	Fibres	**No**	**No**	**No**	**No**	**No**
ø **Friable Asbestos**	1332-21-4	0.0004	g	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
ø **Friable Asbestos (as Asbestos in Soil)**	1332-21-4	0.001	% (w/w)	<0.001	<0.001	<0.001	<0.001	<0.001
ø **Weight Used for % Calculation**	----	0.0001	kg	**0.430**	**0.290**	**0.425**	**0.547**	**0.526**
EA200N: ACM Asbestos in Soil (non-NATA)								
ø **Asbestos Containing Material**	1332-21-4	0.1	g	<0.1	<0.1	<0.1	<0.1	<0.1
ø **Asbestos Containing Material (as 15% Asbestos in ACM >7mm)**	1332-21-4	0.01	% (w/w)	<0.01	<0.01	<0.01	<0.01	<0.01

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	G009_AF_03	G009_AF_04	G009_AF_05	G009_AF_06	G009_AF_07
			Client sampling date / time	[02-Aug-2016]	[02-Aug-2016]	[02-Aug-2016]	[02-Aug-2016]	[02-Aug-2016]
Compound	CAS Number	LOR	Unit	EP1607080-042	EP1607080-043	EP1607080-044	EP1607080-045	EP1607080-046
				Result	Result	Result	Result	Result
EA200: AS 4964 - 2004 Identification of Asbestos in Soils								
Asbestos Detected	1332-21-4	0.1	g/kg	**No**	**No***	**No***	**No***	**No**
Asbestos Type	1332-21-4	-	--	**-**	**Ch**	**Ch**	**Ch**	**-**
Sample weight (dry)	----	0.01	g	**564**	**551**	**564**	**559**	**488**
APPROVED IDENTIFIER:	----	-	--	**S.SPOONER**	**G.MORGAN**	**G.MORGAN**	**G.MORGAN**	**G.MORGAN**
EA200F: Friable Asbestos in Soil (non-NATA)								
ø **Free Fibres**	----	5	Fibres	**No**	**No**	**No**	**No**	**No**
ø **Friable Asbestos**	1332-21-4	0.0004	g	<0.0004	**0.0043**	**0.0265**	**0.0210**	<0.0004
ø **Friable Asbestos (as Asbestos in Soil)**	1332-21-4	0.001	% (w/w)	<0.001	<0.001	**0.005**	**0.004**	<0.001
ø **Weight Used for % Calculation**	----	0.0001	kg	**0.564**	**0.551**	**0.564**	**0.559**	**0.488**
EA200N: ACM Asbestos in Soil (non-NATA)								
ø **Asbestos Containing Material**	1332-21-4	0.1	g	<0.1	<0.1	<0.1	<0.1	<0.1
ø **Asbestos Containing Material (as 15% Asbestos in ACM >7mm)**	1332-21-4	0.01	% (w/w)	<0.01	<0.01	<0.01	<0.01	<0.01

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	G009_AF_08	G009_AF_09	G028_AF_01	G028_AF_02	G028_AF_03
			Client sampling date / time	[02-Aug-2016]	[02-Aug-2016]	[02-Aug-2016]	[02-Aug-2016]	[02-Aug-2016]
Compound	CAS Number	LOR	Unit	EP1607080-047	EP1607080-048	EP1607080-058	EP1607080-059	EP1607080-060
				Result	Result	Result	Result	Result
EA200: AS 4964 - 2004 Identification of Asbestos in Soils								
Asbestos Detected	1332-21-4	0.1	g/kg	**No***	**Yes**	**No**	**Yes**	**No**
Asbestos Type	1332-21-4	-	--	**Ch**	**Ch**	**-**	**Ch + Am**	**-**
Sample weight (dry)	----	0.01	g	**652**	**632**	**526**	**510**	**515**
APPROVED IDENTIFIER:	----	-	--	**S.SPOONER**	**S.SPOONER**	**C.OWLER**	**C.OWLER**	**G.MORGAN**
EA200F: Friable Asbestos in Soil (non-NATA)								
ø **Free Fibres**	----	5	Fibres	**No**	**No**	**No**	**No**	**No**
ø **Friable Asbestos**	1332-21-4	0.0004	g	**0.0588**	**0.0956**	<0.0004	**0.0637**	<0.0004
ø **Friable Asbestos (as Asbestos in Soil)**	1332-21-4	0.001	% (w/w)	**0.009**	**0.015**	<0.001	**0.012**	<0.001
ø **Weight Used for % Calculation**	----	0.0001	kg	**0.652**	**0.632**	**0.526**	**0.510**	**0.515**
EA200N: ACM Asbestos in Soil (non-NATA)								
ø **Asbestos Containing Material**	1332-21-4	0.1	g	<0.1	<0.1	<0.1	<0.1	<0.1
ø **Asbestos Containing Material (as 15% Asbestos in ACM >7mm)**	1332-21-4	0.01	% (w/w)	<0.01	<0.01	<0.01	<0.01	<0.01

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	G028_AF_04	G028_AF_05	G028_AF_06	G028_AF_07	G028_AF_08
			Client sampling date / time	[02-Aug-2016]	[02-Aug-2016]	[02-Aug-2016]	[02-Aug-2016]	[02-Aug-2016]
Compound	CAS Number	LOR	Unit	EP1607080-061	EP1607080-062	EP1607080-063	EP1607080-064	EP1607080-065
				Result	Result	Result	Result	Result
EA200: AS 4964 - 2004 Identification of Asbestos in Soils								
Asbestos Detected	1332-21-4	0.1	g/kg	**No**	**No**	**No**	**No**	**No**
Asbestos Type	1332-21-4	-	--	**-**	**-**	**-**	**-**	**-**
Sample weight (dry)	----	0.01	g	**567**	**562**	**595**	**570**	**484**
APPROVED IDENTIFIER:	----	-	--	**G.MORGAN**	**G.MORGAN**	**G.MORGAN**	**G.MORGAN**	**G.MORGAN**
EA200F: Friable Asbestos in Soil (non-NATA)								
ø **Free Fibres**	----	5	Fibres	**No**	**No**	**No**	**No**	**No**
ø **Friable Asbestos**	1332-21-4	0.0004	g	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
ø **Friable Asbestos (as Asbestos in Soil)**	1332-21-4	0.001	% (w/w)	<0.001	<0.001	<0.001	<0.001	<0.001
ø **Weight Used for % Calculation**	----	0.0001	kg	**0.567**	**0.562**	**0.595**	**0.570**	**0.484**
EA200N: ACM Asbestos in Soil (non-NATA)								
ø **Asbestos Containing Material**	1332-21-4	0.1	g	<0.1	<0.1	<0.1	<0.1	<0.1
ø **Asbestos Containing Material (as 15% Asbestos in ACM >7mm)**	1332-21-4	0.01	% (w/w)	<0.01	<0.01	<0.01	<0.01	<0.01

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	G028_AF_09	G103_AF_01	G103_AF_02	G103_AF_03	G103_AF_04
			Client sampling date / time	[02-Aug-2016]	[02-Aug-2016]	[02-Aug-2016]	[02-Aug-2016]	[02-Aug-2016]
Compound	CAS Number	LOR	Unit	EP1607080-066	EP1607080-073	EP1607080-074	EP1607080-075	EP1607080-076
				Result	Result	Result	Result	Result
EA200: AS 4964 - 2004 Identification of Asbestos in Soils								
Asbestos Detected	1332-21-4	0.1	g/kg	**No**	**No**	**No**	**No**	**No**
Asbestos Type	1332-21-4	-	--	**-**	**-**	**-**	**-**	**-**
Sample weight (dry)	----	0.01	g	**463**	**363**	**396**	**421**	**426**
APPROVED IDENTIFIER:	----	-	--	**G.MORGAN**	**G.MORGAN**	**G.MORGAN**	**G.MORGAN**	**C.OWLER**
EA200F: Friable Asbestos in Soil (non-NATA)								
ø **Free Fibres**	----	5	Fibres	**No**	**No**	**No**	**No**	**No**
ø **Friable Asbestos**	1332-21-4	0.0004	g	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
ø **Friable Asbestos (as Asbestos in Soil)**	1332-21-4	0.001	% (w/w)	<0.001	<0.001	<0.001	<0.001	<0.001
ø **Weight Used for % Calculation**	----	0.0001	kg	**0.463**	**0.363**	**0.396**	**0.421**	**0.426**
EA200N: ACM Asbestos in Soil (non-NATA)								
ø **Asbestos Containing Material**	1332-21-4	0.1	g	<0.1	<0.1	<0.1	<0.1	<0.1
ø **Asbestos Containing Material (as 15% Asbestos in ACM >7mm)**	1332-21-4	0.01	% (w/w)	<0.01	<0.01	<0.01	<0.01	<0.01

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	G103_AF_06	G103_AF_07	G103_AF_08	G103_AF_09	G092_AF_01
			Client sampling date / time	[02-Aug-2016]	[02-Aug-2016]	[02-Aug-2016]	[02-Aug-2016]	[02-Aug-2016]
Compound	CAS Number	LOR	Unit	EP1607080-078	EP1607080-079	EP1607080-080	EP1607080-081	EP1607080-088
				Result	Result	Result	Result	Result
EA200: AS 4964 - 2004 Identification of Asbestos in Soils								
Asbestos Detected	1332-21-4	0.1	g/kg	**No**	**No**	**No**	**No**	**No**
Asbestos Type	1332-21-4	-	--	**-**	**-**	**-**	**-**	**-**
Sample weight (dry)	----	0.01	g	**431**	**476**	**599**	**557**	**659**
APPROVED IDENTIFIER:	----	-	--	**C.OWLER**	**G.MORGAN**	**G.MORGAN**	**G.MORGAN**	**G.MORGAN**
EA200F: Friable Asbestos in Soil (non-NATA)								
ø **Free Fibres**	----	5	Fibres	**No**	**No**	**No**	**No**	**No**
ø **Friable Asbestos**	1332-21-4	0.0004	g	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
ø **Friable Asbestos (as Asbestos in Soil)**	1332-21-4	0.001	% (w/w)	<0.001	<0.001	<0.001	<0.001	<0.001
ø **Weight Used for % Calculation**	----	0.0001	kg	**0.431**	**0.476**	**0.599**	**0.557**	**0.659**
EA200N: ACM Asbestos in Soil (non-NATA)								
ø **Asbestos Containing Material**	1332-21-4	0.1	g	<0.1	<0.1	<0.1	<0.1	<0.1
ø **Asbestos Containing Material (as 15% Asbestos in ACM >7mm)**	1332-21-4	0.01	% (w/w)	<0.01	<0.01	<0.01	<0.01	<0.01

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	G092_AF_02	G092_AF_03	G092_AF_04	G092_AF_05	G092_AF_09
			Client sampling date / time	[02-Aug-2016]	[02-Aug-2016]	[02-Aug-2016]	[02-Aug-2016]	[02-Aug-2016]
Compound	CAS Number	LOR	Unit	EP1607080-089	EP1607080-090	EP1607080-091	EP1607080-092	EP1607080-096
				Result	Result	Result	Result	Result
EA200: AS 4964 - 2004 Identification of Asbestos in Soils								
Asbestos Detected	1332-21-4	0.1	g/kg	**No**	**No**	**No***	**No**	**No**
Asbestos Type	1332-21-4	-	--	**-**	**-**	**Ch + Am**	**-**	**-**
Sample weight (dry)	----	0.01	g	**612**	**468**	**535**	**624**	**540**
APPROVED IDENTIFIER:	----	-	--	**G.MORGAN**	**G.MORGAN**	**C.OWLER**	**C.OWLER**	**S.SPOONER**
EA200F: Friable Asbestos in Soil (non-NATA)								
ø **Free Fibres**	----	5	Fibres	**No**	**No**	**No**	**No**	**No**
ø **Friable Asbestos**	1332-21-4	0.0004	g	<0.0004	<0.0004	**0.0152**	<0.0004	<0.0004
ø **Friable Asbestos (as Asbestos in Soil)**	1332-21-4	0.001	% (w/w)	<0.001	<0.001	**0.003**	<0.001	<0.001
ø **Weight Used for % Calculation**	----	0.0001	kg	**0.612**	**0.468**	**0.535**	**0.624**	**0.540**
EA200N: ACM Asbestos in Soil (non-NATA)								
ø **Asbestos Containing Material**	1332-21-4	0.1	g	<0.1	<0.1	<0.1	<0.1	<0.1
ø **Asbestos Containing Material (as 15% Asbestos in ACM >7mm)**	1332-21-4	0.01	% (w/w)	<0.01	<0.01	<0.01	<0.01	<0.01

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	G092_AF_10	G067_AF_05	G067_AF_06	G067_AF_07	G067_AF_08
			Client sampling date / time	[02-Aug-2016]	[02-Aug-2016]	[02-Aug-2016]	[02-Aug-2016]	[02-Aug-2016]
Compound	CAS Number	LOR	Unit	EP1607080-097	EP1607080-107	EP1607080-108	EP1607080-109	EP1607080-110
				Result	Result	Result	Result	Result
EA200: AS 4964 - 2004 Identification of Asbestos in Soils								
Asbestos Detected	1332-21-4	0.1	g/kg	**No**	**No**	**No**	**No**	**No**
Asbestos Type	1332-21-4	-	--	**-**	**-**	**-**	**-**	**-**
Sample weight (dry)	----	0.01	g	**545**	**633**	**568**	**797**	**553**
APPROVED IDENTIFIER:	----	-	--	**S.SPOONER**	**G.MORGAN**	**G.MORGAN**	**G.MORGAN**	**G.MORGAN**
EA200F: Friable Asbestos in Soil (non-NATA)								
ø **Free Fibres**	----	5	Fibres	**No**	**No**	**No**	**No**	**No**
ø **Friable Asbestos**	1332-21-4	0.0004	g	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
ø **Friable Asbestos (as Asbestos in Soil)**	1332-21-4	0.001	% (w/w)	<0.001	<0.001	<0.001	<0.001	<0.001
ø **Weight Used for % Calculation**	----	0.0001	kg	**0.545**	**0.633**	**0.568**	**0.797**	**0.553**
EA200N: ACM Asbestos in Soil (non-NATA)								
ø **Asbestos Containing Material**	1332-21-4	0.1	g	<0.1	<0.1	<0.1	<0.1	<0.1
ø **Asbestos Containing Material (as 15% Asbestos in ACM >7mm)**	1332-21-4	0.01	% (w/w)	<0.01	<0.01	<0.01	<0.01	<0.01

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	W055_AF_01	W055_AF_02	W055_AF_03	W055_AF_04	W055_AF_05
			Client sampling date / time	[02-Aug-2016]	[02-Aug-2016]	[02-Aug-2016]	[02-Aug-2016]	[02-Aug-2016]
Compound	CAS Number	LOR	Unit	EP1607080-118	EP1607080-119	EP1607080-120	EP1607080-121	EP1607080-122
				Result	Result	Result	Result	Result
EA200: AS 4964 - 2004 Identification of Asbestos in Soils								
Asbestos Detected	1332-21-4	0.1	g/kg	**No**	**No**	**No**	**No**	**No**
Asbestos Type	1332-21-4	-	--	**-**	**-**	**-**	**-**	**-**
Sample weight (dry)	----	0.01	g	**466**	**486**	**506**	**522**	**381**
APPROVED IDENTIFIER:	----	-	--	**C.OWLER**	**C.OWLER**	**S.SPOONER**	**S.SPOONER**	**G.MORGAN**
EA200F: Friable Asbestos in Soil (non-NATA)								
ø **Free Fibres**	----	5	Fibres	**No**	**No**	**No**	**No**	**No**
ø **Friable Asbestos**	1332-21-4	0.0004	g	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
ø **Friable Asbestos (as Asbestos in Soil)**	1332-21-4	0.001	% (w/w)	<0.001	<0.001	<0.001	<0.001	<0.001
ø **Weight Used for % Calculation**	----	0.0001	kg	**0.466**	**0.486**	**0.506**	**0.522**	**0.381**
EA200N: ACM Asbestos in Soil (non-NATA)								
ø **Asbestos Containing Material**	1332-21-4	0.1	g	<0.1	<0.1	<0.1	<0.1	<0.1
ø **Asbestos Containing Material (as 15% Asbestos in ACM >7mm)**	1332-21-4	0.01	% (w/w)	<0.01	<0.01	<0.01	<0.01	<0.01

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	W055_AF_06	W055_AF_07	W055_AF_08	W055_AF_10	W055_AF_11
			Client sampling date / time	[02-Aug-2016]	[02-Aug-2016]	[02-Aug-2016]	[02-Aug-2016]	[02-Aug-2016]
Compound	CAS Number	LOR	Unit	EP1607080-123	EP1607080-124	EP1607080-125	EP1607080-127	EP1607080-128
				Result	Result	Result	Result	Result
EA200: AS 4964 - 2004 Identification of Asbestos in Soils								
Asbestos Detected	1332-21-4	0.1	g/kg	**No**	**No**	**No**	**No**	**No**
Asbestos Type	1332-21-4	-	--	**-**	**-**	**-**	**-**	**-**
Sample weight (dry)	----	0.01	g	**365**	**527**	**503**	**475**	**416**
APPROVED IDENTIFIER:	----	-	--	**G.MORGAN**	**C.OWLER**	**C.OWLER**	**G.MORGAN**	**G.MORGAN**
EA200F: Friable Asbestos in Soil (non-NATA)								
ø **Free Fibres**	----	5	Fibres	**No**	**No**	**No**	**No**	**No**
ø **Friable Asbestos**	1332-21-4	0.0004	g	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
ø **Friable Asbestos (as Asbestos in Soil)**	1332-21-4	0.001	% (w/w)	<0.001	<0.001	<0.001	<0.001	<0.001
ø **Weight Used for % Calculation**	----	0.0001	kg	**0.365**	**0.527**	**0.503**	**0.475**	**0.416**
EA200N: ACM Asbestos in Soil (non-NATA)								
ø **Asbestos Containing Material**	1332-21-4	0.1	g	<0.1	<0.1	<0.1	<0.1	<0.1
ø **Asbestos Containing Material (as 15% Asbestos in ACM >7mm)**	1332-21-4	0.01	% (w/w)	<0.01	<0.01	<0.01	<0.01	<0.01

Analytical Results

Sub-Matrix: SOLID (Matrix: SOLID)			Client sample ID	W6_W12_001	W6_W19_002	W16_W161_004	W9_W110_005	W4_W78_006
			Client sampling date / time	[20-Jul-2016]	[20-Jul-2016]	[02-Aug-2016]	[02-Aug-2016]	[02-Aug-2016]
Compound	CAS Number	LOR	Unit	EP1607080-016	EP1607080-017	EP1607080-018	EP1607080-019	EP1607080-020
				Result	Result	Result	Result	Result
EA200: AS 4964 - 2004 Identification of Asbestos in bulk samples								
Asbestos Detected	1332-21-4	0.1	g/kg	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**
Asbestos Type	1332-21-4	-	--	**Ch + Cr**	**Ch + Am + Cr**	**Ch + Am**	**Ch + Am + Cr**	**Ch + Am**
Sample weight (dry)	----	0.01	g	**2.78**	**3.67**	**2.44**	**4.28**	**2.72**
APPROVED IDENTIFIER:	----	-	--	**G.MORGAN**	**G.MORGAN**	**G.MORGAN**	**G.MORGAN**	**G.MORGAN**

Analytical Results

Sub-Matrix: SOLID (Matrix: SOLID)			Client sample ID	W3_W99_007	W5_W25_008	W5_W23_009	W10_W128_010	G2_S3_001
			Client sampling date / time	[02-Aug-2016]	[02-Aug-2016]	[02-Aug-2016]	[02-Aug-2016]	[03-Aug-2016]
Compound	CAS Number	LOR	Unit	EP1607080-036	EP1607080-037	EP1607080-038	EP1607080-039	EP1607080-055
				Result	Result	Result	Result	Result
EA200: AS 4964 - 2004 Identification of Asbestos in bulk samples								
Asbestos Detected	1332-21-4	0.1	g/kg	**No**	**Yes**	**No**	**No**	**No**
Asbestos Type	1332-21-4	-	--	**-**	**Ch + Am**	**-**	**-**	**-**
Sample weight (dry)	----	0.01	g	**2.06**	**3.74**	**2.20**	**59.1**	**28.2**
APPROVED IDENTIFIER:	----	-	--	**G.MORGAN**	**G.MORGAN**	**G.MORGAN**	**G.MORGAN**	**G.MORGAN**

Analytical Results

Sub-Matrix: SOLID (Matrix: SOLID)			Client sample ID	W4_W99_011	W9_Track_012	----	----	----
			Client sampling date / time	[03-Aug-2016]	[03-Aug-2016]	----	----	----
Compound	CAS Number	LOR	Unit	EP1607080-056	EP1607080-057	--------	--------	--------
				Result	Result	----	----	----
EA200: AS 4964 - 2004 Identification of Asbestos in bulk samples								
Asbestos Detected	1332-21-4	0.1	g/kg	**Yes**	**No**	----	----	----
Asbestos Type	1332-21-4	-	--	**Ch + Am**	**-**	----	----	----
Sample weight (dry)	----	0.01	g	**2.47**	**12.8**	----	----	----
APPROVED IDENTIFIER:	----	-	--	**G.MORGAN**	**G.MORGAN**	----	----	----

Analytical Results

Descriptive Results

Sub-Matrix: **SOIL**

Method: Compound	Client sample ID - Client sampling date / time	Analytical Results
EA200: AS 4964 - 2004 Identification of Asbestos in Soils		
EA200: Description	W149_AF_01 - [02-Aug-2016]	Pale brown sandy soil.
EA200: Description	W149_AF_02 - [02-Aug-2016]	Pale brown sandy soil with one fragment of bonded asbestos cement sheeting approx 5 x 3 x 3 mm.
EA200: Description	W149_AF_03 - [02-Aug-2016]	Pale brown sandy soil with three pieces of bonded asbestos cement sheeting with friable edges ranging from approx 5 x 5 x 4 mm to 25 x 12 x 3 mm.
EA200: Description	W149_AF_04 - [02-Aug-2016]	Pale brown sandy soil.
EA200: Description	W149_AF_05 - [02-Aug-2016]	Pale brown sandy soil.
EA200: Description	W149_AF_06 - [02-Aug-2016]	Pale brown sandy soil.
EA200: Description	W245_AF_01 - [02-Aug-2016]	Pale brown sandy soil with five fragments of friable asbestos cement sheeting approx 4 x 3 x 2 mm.
EA200: Description	W245_AF_02 - [02-Aug-2016]	Pale brown sandy soil.
EA200: Description	W245_AF_03 - [02-Aug-2016]	Pale brown sandy soil.
EA200: Description	W245_AF_04 - [02-Aug-2016]	Pale brown sandy soil.
EA200: Description	W245_AF_05 - [02-Aug-2016]	Mid grey sandy soil.
EA200: Description	W245_AF_06 - [02-Aug-2016]	Mid grey sandy soil.
EA200: Description	W245_AF_11 - [02-Aug-2016]	Pale brown sandy soil.
EA200: Description	G009_AF_01 - [02-Aug-2016]	Pale brown sandy soil.
EA200: Description	G009_AF_02 - [02-Aug-2016]	Pale brown sandy soil.
EA200: Description	G009_AF_03 - [02-Aug-2016]	Pale brown sandy soil.
EA200: Description	G009_AF_04 - [02-Aug-2016]	Pale brown sandy soil with one piece of friable asbestos cement sheeting approx 3 x 3 x 1 mm.
EA200: Description	G009_AF_05 - [02-Aug-2016]	Pale brown sandy soil with three pieces of friable asbestos cement sheeting approx 4 x 3 x 1 mm.
EA200: Description	G009_AF_06 - [02-Aug-2016]	Pale brown sandy soil with one piece of friable asbestos cement sheeting approx 5 x 4 x 2 mm.
EA200: Description	G009_AF_07 - [02-Aug-2016]	Pale brown sandy soil.
EA200: Description	G009_AF_08 - [02-Aug-2016]	Pale brown sandy soil with one piece of bonded asbestos cement sheeting approx 7 x 5 x 2 mm.
EA200: Description	G009_AF_09 - [02-Aug-2016]	Pale brown sandy soil with four fragments of bonded asbestos cement sheeting approx 7 x 5 x 2 mm.
EA200: Description	G028_AF_01 - [02-Aug-2016]	Pale brown sandy soil.
EA200: Description	G028_AF_02 - [02-Aug-2016]	Pale brown sandy soil plus one small fragment of bonded asbestos cement sheeting approx 12 x 6 x 3 mm and several small fragments of friable asbestos cement sheeting approx 4 x 3 x 3 mm.
EA200: Description	G028_AF_03 - [02-Aug-2016]	Pale brown sandy soil.
EA200: Description	G028_AF_04 - [02-Aug-2016]	Pale brown sandy soil.
EA200: Description	G028_AF_05 - [02-Aug-2016]	Pale brown sandy soil.
EA200: Description	G028_AF_06 - [02-Aug-2016]	Pale brown sandy soil.
EA200: Description	G028_AF_07 - [02-Aug-2016]	Pale brown sandy soil.
EA200: Description	G028_AF_08 - [02-Aug-2016]	Pale brown sandy soil.
EA200: Description	G028_AF_09 - [02-Aug-2016]	Pale brown sandy soil.
EA200: Description	G103_AF_01 - [02-Aug-2016]	Pale brown sandy soil.
EA200: Description	G103_AF_02 - [02-Aug-2016]	Pale brown sandy soil.
EA200: Description	G103_AF_03 - [02-Aug-2016]	Pale brown sandy soil.
EA200: Description	G103_AF_04 - [02-Aug-2016]	Pale brown sandy soil.
EA200: Description	G103_AF_06 - [02-Aug-2016]	Pale brown sandy soil.

Sub-Matrix: **SOIL**

Method: Compound	*Client sample ID - Client sampling date / time*	*Analytical Results*
EA200: Description	G103_AF_07 - [02-Aug-2016]	Pale brown sandy soil.
EA200: Description	G103_AF_08 - [02-Aug-2016]	Pale brown sandy soil.
EA200: Description	G103_AF_09 - [02-Aug-2016]	Pale brown sandy soil.
EA200: Description	G092_AF_01 - [02-Aug-2016]	Pale brown sandy soil.
EA200: Description	G092_AF_02 - [02-Aug-2016]	Pale brown sandy soil.
EA200: Description	G092_AF_03 - [02-Aug-2016]	Pale brown sandy soil.
EA200: Description	G092_AF_04 - [02-Aug-2016]	Pale brown sandy soil plus one fragment of bonded asbestos cement sheeting approx 7 x 6 x 6 mm.
EA200: Description	G092_AF_05 - [02-Aug-2016]	Pale brown sandy soil.
EA200: Description	G092_AF_09 - [02-Aug-2016]	Pale brown sandy soil.
EA200: Description	G092_AF_10 - [02-Aug-2016]	Pale brown sandy soil.
EA200: Description	G067_AF_05 - [02-Aug-2016]	Pale brown sandy soil.
EA200: Description	G067_AF_06 - [02-Aug-2016]	Pale brown sandy soil.
EA200: Description	G067_AF_07 - [02-Aug-2016]	Pale brown sandy soil.
EA200: Description	G067_AF_08 - [02-Aug-2016]	Pale brown sandy soil.
EA200: Description	W055_AF_01 - [02-Aug-2016]	Pale brown sandy soil.
EA200: Description	W055_AF_02 - [02-Aug-2016]	Pale brown sandy soil.
EA200: Description	W055_AF_03 - [02-Aug-2016]	Pale brown sandy soil.
EA200: Description	W055_AF_04 - [02-Aug-2016]	Pale brown sandy soil.
EA200: Description	W055_AF_05 - [02-Aug-2016]	Pale brown sandy soil.
EA200: Description	W055_AF_06 - [02-Aug-2016]	Pale brown sandy soil.
EA200: Description	W055_AF_07 - [02-Aug-2016]	Pale brown sandy soil.
EA200: Description	W055_AF_08 - [02-Aug-2016]	Pale brown sandy soil.
EA200: Description	W055_AF_10 - [02-Aug-2016]	Pale brown sandy soil.
EA200: Description	W055_AF_11 - [02-Aug-2016]	Pale brown sandy soil.

Sub-Matrix: **SOLID**

Method: Compound	*Client sample ID - Client sampling date / time*	*Analytical Results*
EA200: AS 4964 - 2004 Identification of Asbestos in bulk samples		
EA200: Description	W6_W12_001 - [20-Jul-2016]	Two pieces of bonded asbestos cement sheeting approximately 35 x 25 x 5mm.
EA200: Description	W6_W19_002 - [20-Jul-2016]	One piece of bonded asbestos cement sheeting approximately 30 x 25 x 5mm.
EA200: Description	W16_W161_004 - [02-Aug-2016]	One piece of bonded asbestos cement sheeting approximately 25 x 15 x 5mm.
EA200: Description	W9_W110_005 - [02-Aug-2016]	One piece of cement approximately 30 x 20 x 5mm plus two pieces of bonded asbestos cement sheeting approximately 15 x 10 x 4mm plus one piece of heavily degraded and friable asbestos cement sheeting approximately 10 x 10 x 2mm.
EA200: Description	W4_W78_006 - [02-Aug-2016]	One piece of bonded asbestos cement sheeting approximately 30 x 20 x 5mm.
EA200: Description	W3_W99_007 - [02-Aug-2016]	Several pieces of cement sheeting approximately 15 x 5 x 2mm.
EA200: Description	W5_W25_008 - [02-Aug-2016]	One piece of bonded asbestos cement sheeting approximately 35 x 25 x 5mm.
EA200: Description	W5_W23_009 - [02-Aug-2016]	A collection of cement debris.
EA200: Description	W10_W128_010 - [02-Aug-2016]	Two pieces of cement sheeting approximately 80 x 55 x 4mm.
EA200: Description	G2_S3_001 - [03-Aug-2016]	Three pieces of vinyl-like material approximately 120 x 50 x 2mm.
EA200: Description	W4_W99_011 - [03-Aug-2016]	One piece of bonded asbestos cement sheeting approximately 30 x 20 x 5mm.
EA200: Description	W9_Track_012 - [03-Aug-2016]	One piece of cement sheeting approximately 50 x 25 x 5mm.

SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order : **EP1607080**

Client	: **SENVERSA PTY LTD**	Laboratory	: Environmental Division Perth
Contact	: MS ASHTON BETTI	Contact	: Carol Walsh
Address	: LEVEL 25, 108 ST GEORGES TERRACE PERTH 6000	Address	: 10 Hod Way Malaga WA Australia 6090
E-mail	: Ashton.Betti@senversa.com.au	E-mail	: carol.walsh@alsglobal.com
Telephone	: +61 08 6557 8881	Telephone	: +61-3-8549 9608
Facsimile	: +61 03 9606 0074	Facsimile	: +61-8-9209 7600
Project	: P1193502 Wedge and Grey	Page	: 1 of 8
Order number	: ----	Quote number	: EP2016SENVER0002 (EP/828/16)
C-O-C number	: ----	QC Level	: NEPM 2013 B3 & ALS QC Standard
Site	: ----		
Sampler	:		

Dates

Date Samples Received	: 03-Aug-2016 4:25 PM	Issue Date	: 04-Aug-2016
Client Requested Due Date	: 12-Aug-2016	Scheduled Reporting Date	: **12-Aug-2016**

Delivery Details

Mode of Delivery	: Client Drop Off	Security Seal	: Intact.
No. of coolers/boxes	: ----	Temperature	: 22.6
Receipt Detail	:	No. of samples received / analysed	: 132 / 76

General Comments

- This report contains the following information:
  - Sample Container(s)/Preservation Non-Compliances
  - Summary of Sample(s) and Requested Analysis
  - Proactive Holding Time Report
  - Requested Deliverables
- Please see scanned COC for sample discrepencies: extra samples , samples not received etc.
- Please direct any queries related to sample condition / numbering / breakages to Sample Receipt (SamplesPerth@alsenviro.com)
- Analytical work for this work order will be conducted at ALS Environmental Perth.
- Please direct any turnaround / technical queries to the laboratory contact designated above.
- Sample Disposal - Aqueous (14 days), Solid (60 days) from date of completion of Work Order.
- **pH analysis should be conducted within 6 hours of sampling.**

Sample Container(s)/Preservation Non-Compliances

All comparisons are made against pretreatment/preservation AS, APHA, USEPA standards.

Method Client sample ID	Sample Container Received	Preferred Sample Container for Analysis
Asbestos Classification and Quantitation per NEPM 2013 : EA200N		
W149_AF_01	- Snap Lock Bag - ACM/Asbestos Grab Bag	- Snap Lock Bag: Separate bag received
W149_AF_02	- Snap Lock Bag - ACM/Asbestos Grab Bag	- Snap Lock Bag: Separate bag received
W149_AF_03	- Snap Lock Bag - ACM/Asbestos Grab Bag	- Snap Lock Bag: Separate bag received
W149_AF_04	- Snap Lock Bag - ACM/Asbestos Grab Bag	- Snap Lock Bag: Separate bag received
W149_AF_05	- Snap Lock Bag - ACM/Asbestos Grab Bag	- Snap Lock Bag: Separate bag received
W149_AF_06	- Snap Lock Bag - ACM/Asbestos Grab Bag	- Snap Lock Bag: Separate bag received
W245_AF_01	- Snap Lock Bag - ACM/Asbestos Grab Bag	- Snap Lock Bag: Separate bag received
W245_AF_02	- Snap Lock Bag - ACM/Asbestos Grab Bag	- Snap Lock Bag: Separate bag received
W245_AF_03	- Snap Lock Bag - ACM/Asbestos Grab Bag	- Snap Lock Bag: Separate bag received
W245_AF_04	- Snap Lock Bag - ACM/Asbestos Grab Bag	- Snap Lock Bag: Separate bag received
W245_AF_05	- Snap Lock Bag - ACM/Asbestos Grab Bag	- Snap Lock Bag: Separate bag received
W245_AF_06	- Snap Lock Bag - ACM/Asbestos Grab Bag	- Snap Lock Bag: Separate bag received
W245_AF_11	- Snap Lock Bag - ACM/Asbestos Grab Bag	- Snap Lock Bag: Separate bag received
G009_AF_01	- Snap Lock Bag - ACM/Asbestos Grab Bag	- Snap Lock Bag: Separate bag received
G009_AF_02	- Snap Lock Bag - ACM/Asbestos Grab Bag	- Snap Lock Bag: Separate bag received
G009_AF_03	- Snap Lock Bag - ACM/Asbestos Grab Bag	- Snap Lock Bag: Separate bag received
G009_AF_04	- Snap Lock Bag - ACM/Asbestos Grab Bag	- Snap Lock Bag: Separate bag received
G009_AF_05	- Snap Lock Bag - ACM/Asbestos Grab Bag	- Snap Lock Bag: Separate bag received
G009_AF_06	- Snap Lock Bag - ACM/Asbestos Grab Bag	- Snap Lock Bag: Separate bag received
G009_AF_07	- Snap Lock Bag - ACM/Asbestos Grab Bag	- Snap Lock Bag: Separate bag received
G009_AF_08	- Snap Lock Bag - ACM/Asbestos Grab Bag	- Snap Lock Bag: Separate bag received
G009_AF_09	- Snap Lock Bag - ACM/Asbestos Grab Bag	- Snap Lock Bag: Separate bag received
G028_AF_01	- Snap Lock Bag - ACM/Asbestos Grab Bag	- Snap Lock Bag: Separate bag received
G028_AF_02	- Snap Lock Bag - ACM/Asbestos Grab Bag	- Snap Lock Bag: Separate bag received
G028_AF_03	- Snap Lock Bag - ACM/Asbestos Grab Bag	- Snap Lock Bag: Separate bag received
G028_AF_04	- Snap Lock Bag - ACM/Asbestos Grab Bag	- Snap Lock Bag: Separate bag received
G028_AF_05	- Snap Lock Bag - ACM/Asbestos Grab Bag	- Snap Lock Bag: Separate bag received
G028_AF_06	- Snap Lock Bag - ACM/Asbestos Grab Bag	- Snap Lock Bag: Separate bag received
G028_AF_07	- Snap Lock Bag - ACM/Asbestos Grab Bag	- Snap Lock Bag: Separate bag received

Method *Client sample ID*	Sample Container Received	Preferred Sample Container for Analysis
Asbestos Classification and Quantitation per NEPM 2013 : EA200N		
G028_AF_08	- Snap Lock Bag - ACM/Asbestos Grab Bag	- Snap Lock Bag: Separate bag received
G028_AF_09	- Snap Lock Bag - ACM/Asbestos Grab Bag	- Snap Lock Bag: Separate bag received
G103_AF_01	- Snap Lock Bag - ACM/Asbestos Grab Bag	- Snap Lock Bag: Separate bag received
G103_AF_02	- Snap Lock Bag - ACM/Asbestos Grab Bag	- Snap Lock Bag: Separate bag received
G103_AF_03	- Snap Lock Bag - ACM/Asbestos Grab Bag	- Snap Lock Bag: Separate bag received
G103_AF_04	- Snap Lock Bag - ACM/Asbestos Grab Bag	- Snap Lock Bag: Separate bag received
G103_AF_06	- Snap Lock Bag - ACM/Asbestos Grab Bag	- Snap Lock Bag: Separate bag received
G103_AF_07	- Snap Lock Bag - ACM/Asbestos Grab Bag	- Snap Lock Bag: Separate bag received
G103_AF_08	- Snap Lock Bag - ACM/Asbestos Grab Bag	- Snap Lock Bag: Separate bag received
G103_AF_09	- Snap Lock Bag - ACM/Asbestos Grab Bag	- Snap Lock Bag: Separate bag received
G092_AF_01	- Snap Lock Bag - ACM/Asbestos Grab Bag	- Snap Lock Bag: Separate bag received
G092_AF_02	- Snap Lock Bag - ACM/Asbestos Grab Bag	- Snap Lock Bag: Separate bag received
G092_AF_03	- Snap Lock Bag - ACM/Asbestos Grab Bag	- Snap Lock Bag: Separate bag received
G092_AF_04	- Snap Lock Bag - ACM/Asbestos Grab Bag	- Snap Lock Bag: Separate bag received
G092_AF_05	- Snap Lock Bag - ACM/Asbestos Grab Bag	- Snap Lock Bag: Separate bag received
G092_AF_09	- Snap Lock Bag - ACM/Asbestos Grab Bag	- Snap Lock Bag: Separate bag received
G092_AF_10	- Snap Lock Bag - ACM/Asbestos Grab Bag	- Snap Lock Bag: Separate bag received
G067_AF_01	- Snap Lock Bag - ACM/Asbestos Grab Bag	- Snap Lock Bag: Separate bag received
G067_AF_02	- Snap Lock Bag - ACM/Asbestos Grab Bag	- Snap Lock Bag: Separate bag received
G067_AF_03	- Snap Lock Bag - ACM/Asbestos Grab Bag	- Snap Lock Bag: Separate bag received
G067_AF_04	- Snap Lock Bag - ACM/Asbestos Grab Bag	- Snap Lock Bag: Separate bag received
G067_AF_05	- Snap Lock Bag - ACM/Asbestos Grab Bag	- Snap Lock Bag: Separate bag received
G067_AF_06	- Snap Lock Bag - ACM/Asbestos Grab Bag	- Snap Lock Bag: Separate bag received
G067_AF_07	- Snap Lock Bag - ACM/Asbestos Grab Bag	- Snap Lock Bag: Separate bag received
G067_AF_08	- Snap Lock Bag - ACM/Asbestos Grab Bag	- Snap Lock Bag: Separate bag received
W055_AF_01	- Snap Lock Bag - ACM/Asbestos Grab Bag	- Snap Lock Bag: Separate bag received
W055_AF_02	- Snap Lock Bag - ACM/Asbestos Grab Bag	- Snap Lock Bag: Separate bag received
W055_AF_03	- Snap Lock Bag - ACM/Asbestos Grab Bag	- Snap Lock Bag: Separate bag received
W055_AF_04	- Snap Lock Bag - ACM/Asbestos Grab Bag	- Snap Lock Bag: Separate bag received
W055_AF_05	- Snap Lock Bag - ACM/Asbestos Grab Bag	- Snap Lock Bag: Separate bag received
W055_AF_06	- Snap Lock Bag - ACM/Asbestos Grab Bag	- Snap Lock Bag: Separate bag received

Method *Client sample ID*	Sample Container Received	Preferred Sample Container for Analysis
Asbestos Classification and Quantitation per NEPM 2013 : EA200N		
W055_AF_07	- Snap Lock Bag - ACM/Asbestos Grab Bag	- Snap Lock Bag: Separate bag received
W055_AF_08	- Snap Lock Bag - ACM/Asbestos Grab Bag	- Snap Lock Bag: Separate bag received
W055_AF_10	- Snap Lock Bag - ACM/Asbestos Grab Bag	- Snap Lock Bag: Separate bag received
W055_AF_11	- Snap Lock Bag - ACM/Asbestos Grab Bag	- Snap Lock Bag: Separate bag received

Summary of Sample(s) and Requested Analysis

Some items described below may be part of a laboratory process necessary for the execution of client requested tasks. Packages may contain additional analyses, such as the determination of moisture content and preparation tasks, that are included in the package.
If no sampling time is provided, the sampling time will default to 15:00 on the date of sampling. If no sampling date is provided, the sampling date will be assumed by the laboratory for processing purposes and will be shown bracketed without a time component.

Matrix: **SOIL**

Laboratory sample ID	*Client sampling date / time*	*Client sample ID*	(On Hold) SOIL No analysis requested	SOIL - EA200N-TBA Asbestos Identification in Soils - Quantitation by
EP1607080-001	[02-Aug-2016]	W149_AF_01		✓
EP1607080-002	[02-Aug-2016]	W149_AF_02		✓
EP1607080-003	[02-Aug-2016]	W149_AF_03		✓
EP1607080-004	[02-Aug-2016]	W149_AF_04		✓
EP1607080-005	[02-Aug-2016]	W149_AF_05		✓
EP1607080-006	[02-Aug-2016]	W149_AF_06		✓
EP1607080-007	[02-Aug-2016]	W149_AF_07	✓	
EP1607080-008	[02-Aug-2016]	W149_AF_08	✓	
EP1607080-009	[02-Aug-2016]	W149_AF_09	✓	
EP1607080-010	[02-Aug-2016]	W149_AF_10	✓	
EP1607080-011	[02-Aug-2016]	W149_AF_11	✓	
EP1607080-012	[02-Aug-2016]	W149_AF_12	✓	
EP1607080-013	[02-Aug-2016]	W149_AF_13	✓	
EP1607080-014	[02-Aug-2016]	W149_AF_14	✓	
EP1607080-015	[02-Aug-2016]	W149_AF_15	✓	
EP1607080-021	[02-Aug-2016]	W245_AF_01		✓
EP1607080-022	[02-Aug-2016]	W245_AF_02		✓
EP1607080-023	[02-Aug-2016]	W245_AF_03		✓
EP1607080-024	[02-Aug-2016]	W245_AF_04		✓
EP1607080-025	[02-Aug-2016]	W245_AF_05		✓
EP1607080-026	[02-Aug-2016]	W245_AF_06		✓
EP1607080-027	[02-Aug-2016]	W245_AF_07	✓	
EP1607080-028	[02-Aug-2016]	W245_AF_08	✓	
EP1607080-029	[02-Aug-2016]	W245_AF_09	✓	
EP1607080-030	[02-Aug-2016]	W245_AF_10	✓	
EP1607080-031	[02-Aug-2016]	W245_AF_11		✓
EP1607080-032	[02-Aug-2016]	W245_AF_12	✓	
EP1607080-033	[02-Aug-2016]	W245_AF_13	✓	
EP1607080-034	[02-Aug-2016]	W245_AF_14	✓	
EP1607080-035	[02-Aug-2016]	W245_AF_15	✓	

			(On Hold) SOIL No analysis requested	SOIL - EA200N-TBA Asbestos Identification in Soils - Quantitation by
EP1607080-040	[02-Aug-2016]	G009_AF_01		✓
EP1607080-041	[02-Aug-2016]	G009_AF_02		✓
EP1607080-042	[02-Aug-2016]	G009_AF_03		✓
EP1607080-043	[02-Aug-2016]	G009_AF_04		✓
EP1607080-044	[02-Aug-2016]	G009_AF_05		✓
EP1607080-045	[02-Aug-2016]	G009_AF_06		✓
EP1607080-046	[02-Aug-2016]	G009_AF_07		✓
EP1607080-047	[02-Aug-2016]	G009_AF_08		✓
EP1607080-048	[02-Aug-2016]	G009_AF_09		✓
EP1607080-049	[02-Aug-2016]	G009_AF_10	✓	
EP1607080-050	[02-Aug-2016]	G009_AF_11	✓	
EP1607080-051	[02-Aug-2016]	G009_AF_12	✓	
EP1607080-052	[02-Aug-2016]	G009_AF_13	✓	
EP1607080-053	[02-Aug-2016]	G009_AF_14	✓	
EP1607080-054	[02-Aug-2016]	G009_AF_15	✓	
EP1607080-058	[02-Aug-2016]	G028_AF_01		✓
EP1607080-059	[02-Aug-2016]	G028_AF_02		✓
EP1607080-060	[02-Aug-2016]	G028_AF_03		✓
EP1607080-061	[02-Aug-2016]	G028_AF_04		✓
EP1607080-062	[02-Aug-2016]	G028_AF_05		✓
EP1607080-063	[02-Aug-2016]	G028_AF_06		✓
EP1607080-064	[02-Aug-2016]	G028_AF_07		✓
EP1607080-065	[02-Aug-2016]	G028_AF_08		✓
EP1607080-066	[02-Aug-2016]	G028_AF_09		✓
EP1607080-067	[02-Aug-2016]	G028_AF_10	✓	
EP1607080-068	[02-Aug-2016]	G028_AF_11	✓	
EP1607080-069	[02-Aug-2016]	G028_AF_12	✓	
EP1607080-070	[02-Aug-2016]	G028_AF_13	✓	
EP1607080-071	[02-Aug-2016]	G028_AF_14	✓	
EP1607080-072	[02-Aug-2016]	G028_AF_15	✓	
EP1607080-073	[02-Aug-2016]	G103_AF_01		✓
EP1607080-074	[02-Aug-2016]	G103_AF_02		✓
EP1607080-075	[02-Aug-2016]	G103_AF_03		✓
EP1607080-076	[02-Aug-2016]	G103_AF_04		✓
EP1607080-077	[02-Aug-2016]	G103_AF_05	✓	
EP1607080-078	[02-Aug-2016]	G103_AF_06		✓
EP1607080-079	[02-Aug-2016]	G103_AF_07		✓
EP1607080-080	[02-Aug-2016]	G103_AF_08		✓
EP1607080-081	[02-Aug-2016]	G103_AF_09		✓
EP1607080-082	[02-Aug-2016]	G103_AF_10	✓	
EP1607080-083	[02-Aug-2016]	G103_AF_11	✓	

			(On Hold) SOIL No analysis requested	SOIL - EA200N-TBA Asbestos Identification in Soils - Quantitation by
EP1607080-084	[02-Aug-2016]	G103_AF_12	✓	
EP1607080-085	[02-Aug-2016]	G103_AF_13	✓	
EP1607080-086	[02-Aug-2016]	G103_AF_14	✓	
EP1607080-087	[02-Aug-2016]	G103_AF_15	✓	
EP1607080-088	[02-Aug-2016]	G092_AF_01		✓
EP1607080-089	[02-Aug-2016]	G092_AF_02		✓
EP1607080-090	[02-Aug-2016]	G092_AF_03		✓
EP1607080-091	[02-Aug-2016]	G092_AF_04		✓
EP1607080-092	[02-Aug-2016]	G092_AF_05		✓
EP1607080-093	[02-Aug-2016]	G092_AF_06	✓	
EP1607080-094	[02-Aug-2016]	G092_AF_07	✓	
EP1607080-095	[02-Aug-2016]	G092_AF_08	✓	
EP1607080-096	[02-Aug-2016]	G092_AF_09		✓
EP1607080-097	[02-Aug-2016]	G092_AF_10		✓
EP1607080-098	[02-Aug-2016]	G092_AF_11	✓	
EP1607080-099	[02-Aug-2016]	G092_AF_12	✓	
EP1607080-100	[02-Aug-2016]	G092_AF_13	✓	
EP1607080-101	[02-Aug-2016]	G092_AF_14	✓	
EP1607080-102	[02-Aug-2016]	G092_AF_15	✓	
EP1607080-103	[02-Aug-2016]	G067_AF_01		✓
EP1607080-104	[02-Aug-2016]	G067_AF_02		✓
EP1607080-105	[02-Aug-2016]	G067_AF_03		✓
EP1607080-106	[02-Aug-2016]	G067_AF_04		✓
EP1607080-107	[02-Aug-2016]	G067_AF_05		✓
EP1607080-108	[02-Aug-2016]	G067_AF_06		✓
EP1607080-109	[02-Aug-2016]	G067_AF_07		✓
EP1607080-110	[02-Aug-2016]	G067_AF_08		✓
EP1607080-111	[02-Aug-2016]	G067_AF_09	✓	
EP1607080-112	[02-Aug-2016]	G067_AF_10	✓	
EP1607080-113	[02-Aug-2016]	G067_AF_11	✓	
EP1607080-114	[02-Aug-2016]	G067_AF_12	✓	
EP1607080-115	[02-Aug-2016]	G067_AF_13	✓	
EP1607080-116	[02-Aug-2016]	G067_AF_14	✓	
EP1607080-117	[02-Aug-2016]	G067_AF_15	✓	
EP1607080-118	[02-Aug-2016]	W055_AF_01		✓
EP1607080-119	[02-Aug-2016]	W055_AF_02		✓
EP1607080-120	[02-Aug-2016]	W055_AF_03		✓
EP1607080-121	[02-Aug-2016]	W055_AF_04		✓
EP1607080-122	[02-Aug-2016]	W055_AF_05		✓
EP1607080-123	[02-Aug-2016]	W055_AF_06		✓
EP1607080-124	[02-Aug-2016]	W055_AF_07		✓

			(On Hold) SOIL No analysis requested	SOIL - EA200N-TBA Asbestos Identification in Soils - Quantitation by
EP1607080-125	[02-Aug-2016]	W055_AF_08		✓
EP1607080-126	[02-Aug-2016]	W055_AF_09	✓	
EP1607080-127	[02-Aug-2016]	W055_AF_10		✓
EP1607080-128	[02-Aug-2016]	W055_AF_11		✓
EP1607080-129	[02-Aug-2016]	W055_AF_12	✓	
EP1607080-130	[02-Aug-2016]	W055_AF_13	✓	
EP1607080-131	[02-Aug-2016]	W055_AF_14	✓	
EP1607080-132	[02-Aug-2016]	W055_AF_15	✓	

Matrix: **SOLID**

Laboratory sample ID	*Client sampling date / time*	*Client sample ID*	SOLID - EA200B Asbestos Identification in Bulk Solids (Excluding
EP1607080-016	[20-Jul-2016]	W6_W12_001	✓
EP1607080-017	[20-Jul-2016]	W6_W19_002	✓
EP1607080-018	[02-Aug-2016]	W16_W161_004	✓
EP1607080-019	[02-Aug-2016]	W9_W110_005	✓
EP1607080-020	[02-Aug-2016]	W4_W78_006	✓
EP1607080-036	[02-Aug-2016]	W3_W99_007	✓
EP1607080-037	[02-Aug-2016]	W5_W25_008	✓
EP1607080-038	[02-Aug-2016]	W5_W23_009	✓
EP1607080-039	[02-Aug-2016]	W10_W128_010	✓
EP1607080-055	[03-Aug-2016]	G2_S3_001	✓
EP1607080-056	[03-Aug-2016]	W4_W99_011	✓
EP1607080-057	[03-Aug-2016]	W9_Track_012	✓

Proactive Holding Time Report

Sample(s) have been received within the recommended holding times for the requested analysis.

Requested Deliverables

ASHTON BETTI

- *AU Certificate of Analysis - NATA (COA)	Email	Ashton.Betti@senversa.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	Ashton.Betti@senversa.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	Ashton.Betti@senversa.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	Ashton.Betti@senversa.com.au
- A4 - AU Tax Invoice (INV)	Email	Ashton.Betti@senversa.com.au
- Chain of Custody (CoC) (COC)	Email	Ashton.Betti@senversa.com.au
- EDI Format - ENMRG (ENMRG)	Email	Ashton.Betti@senversa.com.au
- EDI Format - ESDAT (ESDAT)	Email	Ashton.Betti@senversa.com.au
- EDI Format - XTab (XTAB)	Email	Ashton.Betti@senversa.com.au

INVOICES INVOICES

- A4 - AU Tax Invoice (INV)	Email	accounts@senversa.com.au

Chain of Custody Documentation

senversa

Senversa Pty Ltd
Level 25, 108 St Georges Terrace
Perth WA 6000
Ph: 08 6557 8882 Fax: 03 9606 0074

Laboratory: ALS
Address: 10 Hod Way, Malga
Contact: Adrienne Sanders
Phone: 08 9209 7632

Job Number:	P1193502	**Purchase Order:**	
Project Name:	Wedge and Grey	**Quote No:**	ALS: EP/828/16
Sampled By:	Sarah Horgan	**Turn Around Time:**	Standard
Project Manager:	Ashton Betti	**Page:**	1 of 8
Email Report To:	ashton.betti@senversa.com.au	**Phone/Mobile:**	0421 473 219

Sample Information					Container Information		Analysis Required												
Lab ID	Sample ID	Matrix *	Date	Time	Type / Code	Total Bottles	HOLD	Asbestos Quantification per NEPM 2013	Asbestos Presence/Absence - Bulk Solids										Comments: e.g. Highly contaminated sample; hazardous materials present; trace LORs etc.
1	W149_W130_AF_01	soil	2/08/2016		bag	1		X											W149 Sample name.
2	W149_W130_AF_02	soil	2/08/2016		bag	1		X											
3	W149_W130_AF_03	soil	2/08/2016		bag	1		X											
4	W149_W130_AF_04	soil	2/08/2016		bag	1		X											
5	W149_W130_AF_05	soil	2/08/2016		bag	1		X											
6	W149_W130_AF_06	soil	2/08/2016		bag	1		X											
7	W149_W130_AF_07	soil	2/08/2016		bag	1	X												
8	W149_W130_AF_08	soil	2/08/2016		bag	1	X												
9	W149_W130_AF_09	soil	2/08/2016		bag	1	X												
10	W149_W130_AF_10	soil	2/08/2016		bag	1	X												
11	W149_W130_AF_11	soil	2/08/2016		bag	1	X												
12	W149_W130_AF_12	soil	2/08/2016		bag	1	X												
13	W149_W130_AF_13	soil	2/08/2016		bag	1	X												
14	W149_W130_AF_14	soil	2/08/2016		bag	1	X												
15	W149_W130_AF_15	soil	2/08/2016		bag	1	X												
16	W6-W12-001	Frag	20/7/16		bag	1	X		X										
17	W6-W19-002	↓	20/7/16		↓	1			X										
18	W16-W161-004		2/8/16			1			X										
19	W9-W110-005		2/8/16			1			X										
20	W4-W78-006	↓	2/8/16		↓	1			X										

Environmental Division
Perth
Work Order Reference
EP1607080

Telephone : + 61-8-9209 7655

Sampler: I attest that proper field sampling procedures in accordance with Senversa standard procedures and/or project specifications were used during the collection of these samples: **Sampler Name:** Sarah Horgan **Signature:** [signature] **Date:** 2/8/16

Relinquished By:		Method of Shipment (if applicable):	Received by:	
Name/Signature: Sarah Horgan	Date: 3/8/16	Carrier / Reference #:	Name/Signature: J. Walker [signature]	Date: 3/8/16
Of: Senversa	Time: 17:00	Date/Time:	Of: ALS Environmental	Time: 16:25
Name/Signature:	Date:	Carrier / Reference #:	Name/Signature:	Date:
Of:	Time:	Date/Time:	Of:	Time:
Name/Signature:	Date:	Carrier / Reference #:	Name/Signature:	Date:
Of:	Time:	Date/Time:	Of:	Time:

Water Container Codes: P = Unpreserved Plastic; N = Nitric Acid (HNO_3) Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide (NaOH)/Cadmium (Cd) Preserved; S = Sodium Hydroxide Preserved Plastic; STH = Sodium thiosulfate preserved plastic; V = VOA Vial Hydochloric Acid (HCl) Preserved; VS = VOA Vial Sulphuric Preserved; VSA = Sulphuric Preserved Amber Glass; H = HCl Preserved Plastic; HS = HCl Preserved Speciation Bottle; SP = Sulphuric Preserved Plastic; F = Formaldehyde Preserved Glass; Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; UA = Unpreserved Amber Glass; L=Lugol's iodine preserved white plastic bottle; SW= sulfuric acid preserved wide mouth glass jar

Completed by: _____
Checked by: _____

Chain of Custody Documentation

Senversa Pty Ltd
Level 25, 108 St Georges Terrace
Perth WA 6000
Ph: 08 6557 8882 Fax: 03 9606 0074

Laboratory: ALS
Address: 10 Hod Way, Malga
Contact: Adrienne Sanders
Phone: 08 9209 7632

Job Number:	P1193502	**Purchase Order:**	
Project Name:	Wedge and Grey	**Quote No:**	ALS: EP/828/16
Sampled By:	Sarah Horgan	**Turn Around Time:**	Standard
Project Manager:	Ashton Betti	**Page:**	2 of 8
Email Report To:	ashton.betti@senversa.com.au	**Phone/Mobile:**	0421 473 219

Sample Information					Container Information		Analysis Required												
Lab ID	Sample ID	Matrix *	Date	Time	Type / Code	Total Bottles	HOLD	Asbestos Quantification per NEPM 2013	Asbestos Presence/Absence - Bulk Solids										Comments: e.g. Highly contaminated sample; hazardous materials present; trace LORs etc.
21	W245_AF_01	soil	2/08/2016		bag	1		X											
22	W245_AF_02	soil	2/08/2016		bag	1		X											
23	W245_AF_03	soil	2/08/2016		bag	1		X											
24	W245_AF_04	soil	2/08/2016		bag	1		X											
25	W245_AF_05	soil	2/08/2016		bag	1		X											
26	W245_AF_06	soil	2/08/2016		bag	1		X											
27	W245_AF_07	soil	2/08/2016		bag	1	X												
28	W245_AF_08	soil	2/08/2016		bag	1	X												
29	W245_AF_09	soil	2/08/2016		bag	1	X												
30	W245_AF_10	soil	2/08/2016		bag	1	X												
31	W245_AF_11	soil	2/08/2016		bag	1		X											
32	W245_AF_12	soil	2/08/2016		bag	1	X												
33	W245_AF_13	soil	2/08/2016		bag	1	X												
34	W245_AF_14	soil	2/08/2016		bag	1	X												
35	W245_AF_15	soil	2/08/2016		bag	1	X												
36	W3_W99_007		2/8/16		~~bag~~	~~1~~	~~X~~		X										
37	WS_W25_008								X										
38	WS_W23_009								X										
39	W10_W28_010		3/8						X										
									X										

Sampler: I attest that proper field sampling procedures in accordance with Senversa standard procedures and/or project specifications were used during the collection of these samples:

Sampler Name: Sarah Horgan **Signature:** [signature] **Date:** 2/8/16

Relinquished By:		Method of Shipment (if applicable):	Received by:	
Name/Signature: Sarah Horgan	Date: 3/8/16	Carrier / Reference #:	Name/Signature: [signature]	Date: 3/8/16
Of: Senversa	Time: 1700	Date/Time:	Of: ALS	Time: ~~16:25~~ 16:25
Name/Signature:	Date:	Carrier / Reference #:	Name/Signature:	Date:
Of:	Time:	Date/Time:	Of:	Time:
Name/Signature:	Date:	Carrier / Reference #:	Name/Signature:	Date:
Of:	Time:	Date/Time:	Of:	Time:

Water Container Codes: P = Unpreserved Plastic; N = Nitric Acid (HNO_3) Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide (NaOH)/Cadmium (Cd) Preserved; S = Sodium Hydroxide Preserved Plastic; STH = Sodium thiosulfate preserved plastic; V = VOA Vial Hydochloric Acid (HCl) Preserved; VS = VOA Vial Sulphuric Preserved; VSA = Sulphuric Preserved Amber Glass; H = HCl Preserved Plastic; HS = HCl Preserved Speciation Bottle; SP = Sulphuric Preserved Plastic; F = Formaldehyde Preserved Glass; Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; UA = Unpreserved Amber Glass; L=Lugol's iodine preserved white plastic bottle; SW= sulfuric acid preserved wide mouth glass jar

Completed by: _____
Checked by: _____

Chain of Custody Documentation

senversa

Senversa Pty Ltd
Level 25, 108 St Georges Terrace
Perth WA 6000
Ph: 08 6557 8882 Fax: 03 9606 0074

Laboratory: ALS
Address: 10 Hod Way, Malga
Contact: Adrienne Sanders
Phone: 08 9209 7632

Job Number:	P1193502	**Purchase Order:**	
Project Name:	Wedge and Grey	**Quote No:**	ALS: EP/828/16
Sampled By:	Sarah Horgan	**Turn Around Time:**	Standard
Project Manager:	Ashton Betti	**Page:**	3 of 8
Email Report To:	ashton.betti@senversa.com.au	**Phone/Mobile:**	0421 473 219

Sample Information					Container Information		Analysis Required											
Lab ID	Sample ID	Matrix *	Date	Time	Type / Code	Total Bottles	HOLD	Asbestos Quantification per NEPM 2013	Asbestos Presence/Absence - Bulk Solids									Comments: e.g. Highly contaminated sample; hazardous materials present; trace LORs etc.
40	G009_AF_01	soil	2/08/2016		bag	1		X										
41	G009_AF_02	soil	2/08/2016		bag	1		X										
42	G009_AF_03	soil	2/08/2016		bag	1		X										
43	G009_AF_04	soil	2/08/2016		bag	1		X										
44	G009_AF_05	soil	2/08/2016		bag	1		X										
45	G009_AF_06	soil	2/08/2016		bag	1		X										
46	G009_AF_07	soil	2/08/2016		bag	1		X										
47	G009_AF_08	soil	2/08/2016		bag	1		X										
48	G009_AF_09	soil	2/08/2016		bag	1		X										
49	G009_AF_10	soil	2/08/2016		bag	1	X											
50	G009_AF_11	soil	2/08/2016		bag	1	X											
51	G009_AF_12	soil	2/08/2016		bag	1	X											
52	G009_AF_13	soil	2/08/2016		bag	1	X											
53	G009_AF_14	soil	2/08/2016		bag	1	X											
54	G009_AF_15	soil	2/08/2016		bag	1	X											
55	G2-53-001	Frogs	3/8/2016.		bag	1	ORC		X									
56	WL_W99_011		3/8/16						X									
57	W9-track_012		3/8/16						X									

Sampler: I attest that proper field sampling procedures in accordance with Senversa standard procedures and/or project specifications were used during the collection of these samples: | **Sampler Name:** Sarah Horgan | **Signature:** | **Date:** 2/8/16

Relinquished By:		Method of Shipment (if applicable):	Received by:	
Name/Signature: Sarah Horgan	Date: 3/8/16	Carrier / Reference #:	Name/Signature:	Date: 3/8
Of: Senversa	Time: 1700	Date/Time:	Of:	Time: 16:25
Name/Signature:	Date:	Carrier / Reference #:	Name/Signature:	Date:
Of:	Time:	Date/Time:	Of:	Time:
Name/Signature:	Date:	Carrier / Reference #:	Name/Signature:	Date:
Of:	Time:	Date/Time:	Of:	Time:

Water Container Codes: P = Unpreserved Plastic; N = Nitric Acid (HNO_3) Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide (NaOH)/Cadmium (Cd) Preserved; S = Sodium Hydroxide Preserved Plastic; STH = Sodium thiosulfate preserved plastic; V = VOA Vial Hydochloric Acid (HCl) Preserved; VS = VOA Vial Sulphuric Preserved; VSA = Sulphuric Preserved Amber Glass; H = HCl Preserved Plastic; HS = HCl Preserved Speciation Bottle; SP = Sulphuric Preserved Plastic; F = Formaldehyde Preserved Glass; Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; UA = Unpreserved Amber Glass; L=Lugol's iodine preserved white plastic bottle; SW= sulfuric acid preserved wide mouth glass jar

Completed by: _____
Checked by: _____

Chain of Custody Documentation

senversa

Senversa Pty Ltd
Level 25, 108 St Georges Terrace
Perth WA 6000
Ph: 08 6557 8882 Fax: 03 9606 0074

Laboratory: ALS
Address: 10 Hod Way, Malga
Contact: Adrienne Sanders
Phone: 08 9209 7632

Job Number:	P1193502	**Purchase Order:**	
Project Name:	Wedge and Grey	**Quote No:**	ALS: EP/828/16
Sampled By:	Sarah Horgan	**Turn Around Time:**	Standard
Project Manager:	Ashton Betti	**Page:**	4 of 8
Email Report To:	ashton.betti@senversa.com.au	**Phone/Mobile:**	0421 473 219

Sample Information					Container Information		Analysis Required											Comments: e.g. Highly contaminated sample; hazardous materials present; trace LORs etc:
Lab ID	Sample ID	Matrix *	Date	Time	Type / Code	Total Bottles	HOLD	Asbestos Quantification per NEPM 2013	Asbestos Presence/Absence - Bulk Solids									
58	G028_AF_01	soil	2/08/2016		bag	1		X										
59	G028_AF_02	soil	2/08/2016		bag	1		X										
60	G028_AF_03	soil	2/08/2016		bag	1		X										
61	G028_AF_04	soil	2/08/2016		bag	1		X										
62	G028_AF_05	soil	2/08/2016		bag	1		X										
63	G028_AF_06	soil	2/08/2016		bag	1		X										
64	G028_AF_07	soil	2/08/2016		bag	1		X										
65	G028_AF_08	soil	2/08/2016		bag	1		X										
66	G028_AF_09	soil	2/08/2016		bag	1		X										
67	G028_AF_10	soil	2/08/2016		bag	1	X											
68	G028_AF_11	soil	2/08/2016		bag	1	X											
69	G028_AF_12	soil	2/08/2016		bag	1	X											
70	G028_AF_13	soil	2/08/2016		bag	1	X											
71	G028_AF_14	soil	2/08/2016		bag	1	X											
72	G028_AF_15	soil	2/08/2016		bag	1	X											
					bag	1	X											

Sampler: I attest that proper field sampling procedures in accordance with Senversa standard procedures and/or project specifications were used during the collection of these samples: | **Sampler Name:** Sarah Horgan | **Signature:** | **Date:** 2/8/16

Relinquished By:		**Method of Shipment (if applicable):**	**Received by:**	
Name/Signature: Sarah Horgan	Date: 3/8/16	Carrier / Reference #:	Name/Signature:	Date: 3/8/16
Of: Senversa	Time: 1700	Date/Time:	Of: ALS	Time: 16:25
Name/Signature:	Date:	Carrier / Reference #:	Name/Signature:	Date:
Of:	Time:	Date/Time:	Of:	Time:
Name/Signature:	Date:	Carrier / Reference #:	Name/Signature:	Date:
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Contact: Adrienne Sanders
Phone: 08 9209 7632

Job Number:	P1193502	**Purchase Order:**	
Project Name:	Wedge and Grey	**Quote No:**	ALS: EP/828/16
Sampled By:	Sarah Horgan	**Turn Around Time:**	Standard
Project Manager:	Ashton Betti	**Page:**	5 of 8
Email Report To:	ashton.betti@senversa.com.au	**Phone/Mobile:**	0421 473 219

Sample Information					Container Information		Analysis Required											Comments: e.g. Highly contaminated sample; hazardous materials present; trace LORs etc.
Lab ID	Sample ID	Matrix *	Date	Time	Type / Code	Total Bottles	HOLD	Asbestos Quantification per NEPM 2013	Asbestos Presence/Absence - Bulk Solids									
73	G103_AF_01	soil	2/08/2016		bag	1		X										
74	G103_AF_02	soil	2/08/2016		bag	1		X										
75	G103_AF_03	soil	2/08/2016		bag	1		X										
76	G103_AF_04	soil	2/08/2016		bag	1		X										
77	G103_AF_05	soil	2/08/2016		bag	1	X											
78	G103_AF_06	soil	2/08/2016		bag	1		X										
79	G103_AF_07	soil	2/08/2016		bag	1		X										
80	G103_AF_08	soil	2/08/2016		bag	1		X										
81	G103_AF_09	soil	2/08/2016		bag	1		X										
82	G103_AF_10	soil	2/08/2016		bag	1	X											
83	G103_AF_11	soil	2/08/2016		bag	1	X											
84	G103_AF_12	soil	2/08/2016		bag	1	X											
85	G103_AF_13	soil	2/08/2016		bag	1	X											
86	G103_AF_14	soil	2/08/2016		bag	1	X											
87	G103_AF_15	soil	2/08/2016		bag	1	X											
					bag	1	X											

Sampler: I attest that proper field sampling procedures in accordance with Senversa standard procedures and/or project specifications were used during the collection of these samples: | **Sampler Name:** Sarah Horgan | **Signature:** | **Date:** 2/8/16

Relinquished By:		Method of Shipment (if applicable):	Received by:	
Name/Signature: Sarah Horgan	Date: 3/8/16	Carrier / Reference #:	Name/Signature:	Date: 3/8/16
Of: Senversa	Time: 1700	Date/Time:	Of: ALS	Time: 16:25
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Of:	Time:	Date/Time:	Of:	Time:
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Job Number:	P1193502	**Purchase Order:**	
Project Name:	Wedge and Grey	**Quote No:**	ALS: EP/828/16
Sampled By:	Sarah Horgan	**Turn Around Time:**	Standard
Project Manager:	Ashton Betti	**Page:**	6 of 8
Email Report To:	ashton.betti@senversa.com.au	**Phone/Mobile:**	0421 473 219

Sample Information					Container Information		Analysis Required												
Lab ID	Sample ID	Matrix *	Date	Time	Type / Code	Total Bottles	HOLD	Asbestos Quantification per NEPM 2013	Asbestos Presence/Absence - Bulk Solids										Comments: e.g. Highly contaminated sample; hazardous materials present; trace LORs etc.
88	G092_AF_01	soil	2/08/2016		bag	1		X											
89	G092_AF_02	soil	2/08/2016		bag	1		X											
90	G092_AF_03	soil	2/08/2016		bag	1		X											
91	G092_AF_04	soil	2/08/2016		bag	1		X											
92	G092_AF_05	soil	2/08/2016		bag	1		X											
93	G092_AF_06	soil	2/08/2016		bag	1	X												
94	G092_AF_07	soil	2/08/2016		bag	1	X												
95	G092_AF_08	soil	2/08/2016		bag	1	X												
96	G092_AF_09	soil	2/08/2016		bag	1		X											
97	G092_AF_10	soil	2/08/2016		bag	1		X											
98	G092_AF_11	soil	2/08/2016		bag	1	X												
99	G092_AF_12	soil	2/08/2016		bag	1	X												
100	G092_AF_13	soil	2/08/2016		bag	1	X												
101	G092_AF_14	soil	2/08/2016		bag	1	X												
102	G092_AF_15	soil	2/08/2016		bag	1	X												
					bag	1	X												

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Name/Signature:	Date: 3/8/16	Carrier / Reference #:	Name/Signature:	Date: 3/8/16
Of: Senversa	Time: 1700	Date/Time:	Of:	Time: 1625
Name/Signature:	Date:	Carrier / Reference #:	Name/Signature:	Date:
Of:	Time:	Date/Time:	Of:	Time:
Name/Signature:	Date:	Carrier / Reference #:	Name/Signature:	Date:
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Job Number:	P1193502	**Purchase Order:**	
Project Name:	Wedge and Grey	**Quote No:**	ALS: EP/828/16
Sampled By:	Sarah Horgan	**Turn Around Time:**	Standard
Project Manager:	Ashton Betti	**Page:**	7 of 8
Email Report To:	ashton.betti@senversa.com.au	**Phone/Mobile:**	0421 473 219

	Sample Information				Container Information		Analysis Required											
Lab ID	Sample ID	Matrix *	Date	Time	Type / Code	Total Bottles	HOLD	Asbestos Quantification per NEPM 2013	Asbestos Presence/Absence - Bulk Solids									Comments: e.g. Highly contaminated sample; hazardous materials present; trace LORs etc.
103	G067_AF_01	soil	2/08/2016		bag	1		X										
104	G067_AF_02	soil	2/08/2016		bag	1		X										
105	G067_AF_03	soil	2/08/2016		bag	1		X										
106	G067_AF_04	soil	2/08/2016		bag	1		X										
107	G067_AF_05	soil	2/08/2016		bag	1		X										
108	G067_AF_06	soil	2/08/2016		bag	1		X										
109	G067_AF_07	soil	2/08/2016		bag	1		X										
110	G067_AF_08	soil	2/08/2016		bag	1		X										
111	G067_AF_09	soil	2/08/2016		bag	1	X											
112	G067_AF_10	soil	2/08/2016		bag	1	X											
113	G067_AF_11	soil	2/08/2016		bag	1	X											
114	G067_AF_12	soil	2/08/2016		bag	1	X											
115	G067_AF_13	soil	2/08/2016		bag	1	X											
116	G067_AF_14	soil	2/08/2016		bag	1	X											
117	G067_AF_15	soil	2/08/2016		bag	1	X											
					bag	1	X											

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Relinquished By:		**Method of Shipment (if applicable):**	**Received by:**	
Name/Signature: Sarah Horgan	Date: 3/8/16	Carrier / Reference #:	Name/Signature:	Date: 3/8/16
Of: Senversa	Time: 1700	Date/Time:	Of: ALS	Time: 16:25
Name/Signature:	Date:	Carrier / Reference #:	Name/Signature:	Date:
Of:	Time:	Date/Time:	Of:	Time:
Name/Signature:	Date:	Carrier / Reference #:	Name/Signature:	Date:
Of:	Time:	Date/Time:	Of:	Time:

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Project Manager:	Ashton Betti	**Page:**	8 of 8
Email Report To:	ashton.betti@senversa.com.au	**Phone/Mobile:**	0421 473 219

Sample Information					Container Information		Analysis Required											
Lab ID	Sample ID	Matrix *	Date	Time	Type / Code	Total Bottles	HOLD	Asbestos Quantification per NEPM 2013	Asbestos Presence/Absence - Bulk Solids									Comments: e.g. Highly contaminated sample; hazardous materials present; trace LORs etc.
118	W055_AF_01	soil	2/08/2016		bag	1		X										
119	W055_AF_02	soil	2/08/2016		bag	1		X										
120	W055_AF_03	soil	2/08/2016		bag	1		X										
121	W055_AF_04	soil	2/08/2016		bag	1		X										
122	W055_AF_05	soil	2/08/2016		bag	1		X										
123	W055_AF_06	soil	2/08/2016		bag	1		X										
124	W055_AF_07	soil	2/08/2016		bag	1		X										
125	W055_AF_08	soil	2/08/2016		bag	1		X										
126	W055_AF_09	soil	2/08/2016		bag	1	X											
127	W055_AF_10	soil	2/08/2016		bag	1		X										
128	W055_AF_11	soil	2/08/2016		bag	1		X										
129	W055_AF_12	soil	2/08/2016		bag	1	X											
130	W055_AF_13	soil	2/08/2016		bag	1	X											
131	W055_AF_14	soil	2/08/2016		bag	1	X											
132	W055_AF_15	soil	2/08/2016		bag	1	X											
					bag	1	X											

Sampler: I attest that proper field sampling procedures in accordance with Senversa standard procedures and/or project specifications were used during the collection of these samples:

Sampler Name: Sarah Horgan

Signature: [signature]

Date: 2/8/16

Relinquished By:		Method of Shipment (if applicable):	Received by:	
Name/Signature: [signature]	Date: 3/8/16	Carrier / Reference #:	Name/Signature: [signature]	Date: 3/8/16
Of: Senversa	Time: 1700	Date/Time:	Of:	Time: 16:25
Name/Signature:	Date:	Carrier / Reference #:	Name/Signature:	Date:
Of:	Time:	Date/Time:	Of:	Time:
Name/Signature:	Date:	Carrier / Reference #:	Name/Signature:	Date:
Of:	Time:	Date/Time:	Of:	Time:

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Completed by: _____
Checked by: _____

ALS Environmental

CERTIFICATE OF ANALYSIS

Work Order	: **EP1607099**	Page	: 1 of 4
Client	: **SENVERSA PTY LTD**	Laboratory	: Environmental Division Perth
Contact	: MS ASHTON BETTI	Contact	: Carol Walsh
Address	: LEVEL 25, 108 ST GEORGES TERRACE PERTH 6000	Address	: 10 Hod Way Malaga WA Australia 6090
Telephone	: +61 08 6557 8881	Telephone	: +61-3-8549 9608
Project	: Ex EP1606748 P1193502 Wedge and Grey	Date Samples Received	: 26-Jul-2016 13:00
Order number	: ----	Date Analysis Commenced	: 10-Aug-2016
C-O-C number	: ----	Issue Date	: 10-Aug-2016 14:12
Sampler	: SARAH HORGAN		
Site	: ----		
Quote number	: ----		
No. of samples received	: 6		
No. of samples analysed	: 6		

NATA Accredited Laboratory 825
Accredited for compliance with ISO/IEC 17025.

NATA WORLD RECOGNISED ACCREDITATION

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Descriptive Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Shaun Spooner	Asbestos Identifier	Newcastle - Asbestos, Mayfield West, NSW

General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contact for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
ø = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

- Asbestos conducted by ALS Newcastle, NATA accreditation no. 825, site no 1656.
- EA200N: Asbestos weights and percentages are not covered under the Scope of NATA Accreditation.
  Weights of Asbestos are based on extracted bulk asbestos, fibre bundles, and/or ACM and do not include respirable fibres (if present)
  The Friable Asbestos weight is calculated from the extracted Fibrous Asbestos and Asbestos Fines as an equivalent weight of 100% Asbestos
  Percentages for Asbestos content in ACM are based on the 2013 NEPM default values.
  All calculations of percentage Asbestos under this method are approximate and should be used as a guide only.
- EA200 'Am' Amosite (brown asbestos)
- EA200 'Cr' Crocidolite (blue asbestos)
- EA200 'Trace' - Asbestos fibres ("Free Fibres") detected by trace analysis per AS4964. The result can be interpreted that the sample contains detectable 'respirable' asbestos fibres
- EA200: Asbestos Identification Samples were analysed by Polarised Light Microscopy including dispersion staining.
- EA200 Legend
- EA200 'Ch' Chrysotile (white asbestos)
- EA200: 'UMF' Unknown Mineral Fibres. "-" indicates fibres detected may or may not be asbestos fibres. Confirmation by alternative techniques is recommended.
- EA200: Negative results for vinyl tiles should be confirmed by an independent analytical technique.
- EA200N: ALS laboratory procedures and methods used for the identification and quantitation of asbestos are consistent with AS4964-2004 and the requirements of the 2013 NEPM for Assessment of Site Contamination
- EA200: For samples larger than 30g, the <2mm fraction may be sub-sampled prior to trace analysis as outlined in ISO23909:2008(E) Sect 6.3.2-2
- EA200: 'Yes' - Asbestos detected by polarised light microscopy including dispersion staining.
- EA200: 'No*' - No asbestos found, at the reporting limit of 0.1g/kg, by polarised light microscopy including dispersion staining. Asbestos material was detected and positively identified at concentrations estimated to be below 0.1g/kg.
- EA200: 'No' - No asbestos found at the reporting limit 0.1g/kg, by polarised light microscopy including dispersion staining.

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	W4_W99_AF_08	W4_W99_AF_09	W4_W99_AF_10	W4_W99_AF_11	W4_W99_AF_12
			Client sampling date / time	[25-Jul-2016]	[25-Jul-2016]	[25-Jul-2016]	[25-Jul-2016]	[25-Jul-2016]
Compound	CAS Number	LOR	Unit	EP1607099-001	EP1607099-002	EP1607099-003	EP1607099-004	EP1607099-005
				Result	Result	Result	Result	Result
EA200: AS 4964 - 2004 Identification of Asbestos in Soils								
Asbestos Detected	1332-21-4	0.1	g/kg	**No**	**No**	**No**	**No**	**No**
Asbestos Type	1332-21-4	-	--	**-**	**-**	**-**	**-**	**-**
Sample weight (dry)	----	0.01	g	**324**	**391**	**454**	**459**	**567**
APPROVED IDENTIFIER:	----	-	--	**S.SPOONER**	**S.SPOONER**	**C.OWLER**	**C.OWLER**	**S.SPOONER**
EA200F: Friable Asbestos in Soil (non-NATA)								
ø **Free Fibres**	----	5	Fibres	**No**	**No**	**No**	**No**	**No**
ø **Friable Asbestos**	1332-21-4	0.0004	g	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
ø **Friable Asbestos (as Asbestos in Soil)**	1332-21-4	0.001	% (w/w)	<0.001	<0.001	<0.001	<0.001	<0.001
ø **Weight Used for % Calculation**	----	0.0001	kg	**0.324**	**0.391**	**0.454**	**0.459**	**0.567**
EA200N: ACM Asbestos in Soil (non-NATA)								
ø **Asbestos Containing Material**	1332-21-4	0.1	g	<0.1	<0.1	<0.1	<0.1	<0.1
ø **Asbestos Containing Material (as 15% Asbestos in ACM >7mm)**	1332-21-4	0.01	% (w/w)	<0.01	<0.01	<0.01	<0.01	<0.01

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	W4_W99_AF_15	----	----	----	----
			Client sampling date / time	[25-Jul-2016]	----	----	----	----
Compound	CAS Number	LOR	Unit	EP1607099-006	--------	--------	--------	--------
				Result	----	----	----	----
EA200: AS 4964 - 2004 Identification of Asbestos in Soils								
Asbestos Detected	1332-21-4	0.1	g/kg	**No**	----	----	----	----
Asbestos Type	1332-21-4	-	--	**-**	----	----	----	----
Sample weight (dry)	----	0.01	g	**385**	----	----	----	----
APPROVED IDENTIFIER:	----	-	--	**S.SPOONER**	----	----	----	----
EA200F: Friable Asbestos in Soil (non-NATA)								
ø **Free Fibres**	----	5	Fibres	**No**	----	----	----	----
ø **Friable Asbestos**	1332-21-4	0.0004	g	<0.0004	----	----	----	----
ø **Friable Asbestos (as Asbestos in Soil)**	1332-21-4	0.001	% (w/w)	<0.001	----	----	----	----
ø **Weight Used for % Calculation**	----	0.0001	kg	**0.385**	----	----	----	----
EA200N: ACM Asbestos in Soil (non-NATA)								
ø **Asbestos Containing Material**	1332-21-4	0.1	g	<0.1	----	----	----	----
ø **Asbestos Containing Material (as 15% Asbestos in ACM >7mm)**	1332-21-4	0.01	% (w/w)	<0.01	----	----	----	----

Analytical Results

Descriptive Results

Sub-Matrix: **SOIL**

Method: Compound	Client sample ID - Client sampling date / time	Analytical Results
EA200: AS 4964 - 2004 Identification of Asbestos in Soils		
EA200: Description	W4_W99_AF_08 - [25-Jul-2016]	Pale brown sandy soil.
EA200: Description	W4_W99_AF_09 - [25-Jul-2016]	Pale brown sandy soil.
EA200: Description	W4_W99_AF_10 - [25-Jul-2016]	Pale brown sandy soil.
EA200: Description	W4_W99_AF_11 - [25-Jul-2016]	Pale brown sandy soil.
EA200: Description	W4_W99_AF_12 - [25-Jul-2016]	Pale brown sandy soil.
EA200: Description	W4_W99_AF_15 - [25-Jul-2016]	Pale brown sandy soil.

ALS Environmental

QUALITY CONTROL REPORT

Work Order	: **EP1607099**	Page	: 1 of 3
Client	: **SENVERSA PTY LTD**	Laboratory	: Environmental Division Perth
Contact	: MS ASHTON BETTI	Contact	: Carol Walsh
Address	: LEVEL 25, 108 ST GEORGES TERRACE PERTH 6000	Address	: 10 Hod Way Malaga WA Australia 6090
Telephone	: +61 08 6557 8881	Telephone	: +61-3-8549 9608
Project	: Ex EP1606748 P1193502 Wedge and Grey	Date Samples Received	: 26-Jul-2016
Order number	: ----	Date Analysis Commenced	: 10-Aug-2016
C-O-C number	: ----	Issue Date	: 10-Aug-2016
Sampler	: SARAH HORGAN		
Site	: ----		
Quote number	: ----		
No. of samples received	: 6		
No. of samples analysed	: 6		

NATA Accredited Laboratory 825
Accredited for compliance with
ISO/IEC 17025.

NATA
WORLD RECOGNISED ACCREDITATION

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Shaun Spooner	Asbestos Identifier	Newcastle - Asbestos, Mayfield West, NSW

General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis. Where the LOR of a reported result differs from standard LOR, this may be due to high

Key : Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot
CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
RPD = Relative Percentage Difference
# = Indicates failed QC

Laboratory Duplicate (DUP) Report

The quality control term Laboratory Duplicate refers to a randomly selected intralaboratory split. Laboratory duplicates provide information regarding method precision and sample heterogeneity. The permitted ranges for the Relative Percent Deviation (RPD) of Laboratory Duplicates are specified in ALS Method QWI-EN/38 and are dependent on the magnitude of results in comparison to the level of reporting: Result < 10 times LOR: No Limit; Result between 10 and 20 times LOR: 0% - 50%; Result > 20 times LOR: 0% - 20%.

- **No Laboratory Duplicate (DUP) Results are required to be reported.**

Method Blank (MB) and Laboratory Control Spike (LCS) Report

The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC parameter is to monitor potential laboratory contamination. The quality control term Laboratory Control Spike (LCS) refers to a certified reference material, or a known interference free matrix spiked with target analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS.

- **No Method Blank (MB) or Laboratory Control Spike (LCS) Results are required to be reported.**

Matrix Spike (MS) Report

The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

- **No Matrix Spike (MS) or Matrix Spike Duplicate (MSD) Results are required to be reported.**

QA/QC Compliance Assessment to assist with Quality Review

Work Order	: **EP1607099**	Page	: 1 of 4
Client	: **SENVERSA PTY LTD**	Laboratory	: Environmental Division Perth
Contact	: MS ASHTON BETTI	Telephone	: +61-3-8549 9608
Project	: Ex EP1606748 P1193502 Wedge and Grey	Date Samples Received	: 26-Jul-2016
Site	: ----	Issue Date	: 10-Aug-2016
Sampler	: SARAH HORGAN	No. of samples received	: 6
Order number	: ----	No. of samples analysed	: 6

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.

Brief method summaries and references are also provided to assist in traceability.

Summary of Outliers

Outliers : Quality Control Samples

This report highlights outliers flagged in the Quality Control (QC) Report.

- **NO Method Blank value outliers occur.**
- **NO Duplicate outliers occur.**
- **NO Laboratory Control outliers occur.**
- **NO Matrix Spike outliers occur.**
- **For all regular sample matrices, NO surrogate recovery outliers occur.**

Outliers : Analysis Holding Time Compliance

- **NO Analysis Holding Time Outliers exist.**

Outliers : Frequency of Quality Control Samples

- **NO Quality Control Sample Frequency Outliers exist.**

Analysis Holding Time Compliance

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results.

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein.

Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 28 days & other metals 180 days. A recorded breach does not guarantee a breach for all non-volatile parameters.

Holding times for ***VOC in soils*** vary according to analytes of interest. Vinyl Chloride and Styrene holding time is 7 days; others 14 days. A recorded breach does not guarantee a breach for all VOC analytes and should be verified in case the reported breach is a false positive or Vinyl Chloride and Styrene are not key analytes of interest/concern.

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EA200: AS 4964 - 2004 Identification of Asbestos in Soils							
Snap Lock Bag - Friable Asbestos/PSD Bag (EA200)							
W4_W99_AF_08, W4_W99_AF_09, W4_W99_AF_10, W4_W99_AF_11, W4_W99_AF_12, W4_W99_AF_15	**25-Jul-2016**	**----**	----	----	**10-Aug-2016**	21-Jan-2017	✓
EA200F: Friable Asbestos in Soil (non-NATA)							
Snap Lock Bag - Friable Asbestos/PSD Bag (EA200N)							
W4_W99_AF_08, W4_W99_AF_09, W4_W99_AF_10, W4_W99_AF_11, W4_W99_AF_12, W4_W99_AF_15	**25-Jul-2016**	**----**	----	----	**10-Aug-2016**	21-Jan-2017	✓
EA200N: ACM Asbestos in Soil (non-NATA)							
Snap Lock Bag - Friable Asbestos/PSD Bag (EA200N)							
W4_W99_AF_08, W4_W99_AF_09, W4_W99_AF_10, W4_W99_AF_11, W4_W99_AF_12, W4_W99_AF_15	**25-Jul-2016**	**----**	----	----	**10-Aug-2016**	21-Jan-2017	✓

Quality Control Parameter Frequency Compliance

- **No Quality Control data available for this section.**

Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

Analytical Methods	Method	Matrix	Method Descriptions
Asbestos Identification in Soils	EA200	SOIL	AS 4964 - 2004 Method for the qualitative identification of asbestos in bulk samples Analysis by Polarised Light Microscopy including dispersion staining
Asbestos Classification and Quantitation per NEPM 2013	* EA200N	SOIL	Asbestos Classification and Quantitation per NEPM 2013 with Confirmation of Identification by AS 4964 - 2004 Gravimetric determination of Asbestos Containing Material, Friable Asbestos and sample weight and calculation of percentage concentrations per NEPM protocols. Friable Asbestos is reported as the equivalent weight in the sample received after accounting for sub-sampling (where applicable for the <7mm and/or <2mm fractions).

SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order : **EP1607099**

Client	: **SENVERSA PTY LTD**	Laboratory	: Environmental Division Perth
Contact	: MS ASHTON BETTI	Contact	: Carol Walsh
Address	: LEVEL 25, 108 ST GEORGES TERRACE PERTH 6000	Address	: 10 Hod Way Malaga WA Australia 6090
E-mail	: Ashton.Betti@senversa.com.au	E-mail	: carol.walsh@alsglobal.com
Telephone	: +61 08 6557 8881	Telephone	: +61-3-8549 9608
Facsimile	: +61 03 9606 0074	Facsimile	: +61-8-9209 7600
Project	: Ex EP1606748 P1193502 Wedge and Grey	Page	: 1 of 2
Order number	: ----	Quote number	: EP2016SENVER0002 (EP/828/16)
C-O-C number	: ----	QC Level	: NEPM 2013 B3 & ALS QC Standard
Site	: ----		
Sampler	: SARAH HORGAN		

Dates

Date Samples Received	: 26-Jul-2016 1:00 PM	Issue Date	: 04-Aug-2016
Client Requested Due Date	: 12-Aug-2016	Scheduled Reporting Date	: **12-Aug-2016**

Delivery Details

Mode of Delivery	: Samples On Hand	Security Seal	: Not Available
No. of coolers/boxes	: ----	Temperature	: ----
Receipt Detail	:	No. of samples received / analysed	: 6 / 6

General Comments

- This report contains the following information:
  - Sample Container(s)/Preservation Non-Compliances
  - Summary of Sample(s) and Requested Analysis
  - Proactive Holding Time Report
  - Requested Deliverables
- Please see scanned COC for sample discrepencies: extra samples , samples not received etc.
- Please direct any queries related to sample condition / numbering / breakages to Sample Receipt (SamplesPerth@alsenviro.com)
- Analytical work for this work order will be conducted at ALS Environmental Perth.
- Asbestos analysis will be conducted by ALS Environmental, Melbourne, NATA accreditation No. 825, Site No. 13778.
- Please direct any turnaround / technical queries to the laboratory contact designated above.
- Sample Disposal - Aqueous (14 days), Solid (60 days) from date of completion of Work Order.
- **pH analysis should be conducted within 6 hours of sampling.**

Sample Container(s)/Preservation Non-Compliances

All comparisons are made against pretreatment/preservation AS, APHA, USEPA standards.

- **No sample container / preservation non-compliance exists.**

Summary of Sample(s) and Requested Analysis

Some items described below may be part of a laboratory process necessary for the execution of client requested tasks. Packages may contain additional analyses, such as the determination of moisture content and preparation tasks, that are included in the package.
If no sampling time is provided, the sampling time will default to 15:00 on the date of sampling. If no sampling date is provided, the sampling date will be assumed by the laboratory for processing purposes and will be shown bracketed without a time component.

Matrix: **SOIL**

Laboratory sample ID	Client sampling date / time	Client sample ID	SOIL - EA200N-TBA Asbestos Identification in Soils - Quantitation by
EP1607099-001	[25-Jul-2016]	W4_W99_AF_08	✓
EP1607099-002	[25-Jul-2016]	W4_W99_AF_09	✓
EP1607099-003	[25-Jul-2016]	W4_W99_AF_10	✓
EP1607099-004	[25-Jul-2016]	W4_W99_AF_11	✓
EP1607099-005	[25-Jul-2016]	W4_W99_AF_12	✓
EP1607099-006	[25-Jul-2016]	W4_W99_AF_15	✓

Proactive Holding Time Report

Sample(s) have been received within the recommended holding times for the requested analysis.

Requested Deliverables

ASHTON BETTI

- *AU Certificate of Analysis - NATA (COA)	Email	Ashton.Betti@senversa.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	Ashton.Betti@senversa.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	Ashton.Betti@senversa.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	Ashton.Betti@senversa.com.au
- A4 - AU Tax Invoice (INV)	Email	Ashton.Betti@senversa.com.au
- Chain of Custody (CoC) (COC)	Email	Ashton.Betti@senversa.com.au
- EDI Format - ENMRG (ENMRG)	Email	Ashton.Betti@senversa.com.au
- EDI Format - ESDAT (ESDAT)	Email	Ashton.Betti@senversa.com.au
- EDI Format - XTab (XTAB)	Email	Ashton.Betti@senversa.com.au

RECEIVED RSTEERE
4/8/16 10:11

Rhiannon Steere

From: Adrienne Sanders
Sent: Thursday, 4 August 2016 10:11 AM
To: Samples Perth
Cc: Rhiannon Steere; Stephanie Tilson; Lauren Ockwell; Lauren Biagioni
Subject: FW: RESULTS & EDD & INVOICE for ALS Workorder : EP1606748 | Your Reference: P1193502 Wedge and Grey
Attachments: EP1606748_0_COA.pdf; L368607_INV.pdf

Hi Guys,

Can somebody please action re-batch request below?

Thank you, any questions come and visit ☺

Kind regards,

Adrienne Sanders
Client Services
Environmental

T +61 8 9209 7655 D +61 8 9209 7632
F +61 8 9209 7600
adrienne.sanders@alsglobal.com
10 Hod Way
Malaga WA 6090
AUSTRALIA

From: Ashton Betti [mailto:Ashton.Betti@senversa.com.au]
Sent: Thursday, 4 August 2016 10:09 AM
To: Adrienne Sanders
Cc: Lauren Ockwell; Lauren Biagioni
Subject: FW: RESULTS & EDD & INVOICE for ALS Workorder : EP1606748 | Your Reference: P1193502 Wedge and Grey

Hi Adrienne,

Could I please get asbestos quantification as per NEPM on the following samples:

1 - W4_W99_AF_08
2 - W4_W99_AF_09
3 - W4_W99_AF_10
4 - W4_W99_AF_11
5 - W4_W99_AF_12
6 - W4_W99_AF_15

Environmental Division
Perth
Work Order Reference
EP1607099

Telephone : + 61-8-9209 7655

Thanks
Ashton

From: angel-no-reply@alsglobal.com [mailto:angel-no-reply@alsglobal.com]
Sent: Thursday, 4 August 2016 9:05 AM
To: Ashton Betti <Ashton.Betti@senversa.com.au>
Subject: RESULTS & EDD & INVOICE for ALS Workorder : EP1606748 | Your Reference: P1193502 Wedge and Grey

ALS Environmental

Deliverables for ALS Workorder EP1606748

Project: P1193502 Wedge and Grey

Dear ASHTON BETTI,

Please find enclosed the following deliverables for **EP1606748**:

- EP1606748_0_COA.pdf
- EP1606748_0_ENMRG.csv
- P1193502 Wedge and Grey.ESDAT_EP1606748_0.Chemistry23.CSV
- P1193502 Wedge and Grey.ESDAT_EP1606748_0.Header.XML
- P1193502 Wedge and Grey.ESDAT_EP1606748_0.Sample23.CSV
- EP1606748_0_XTAB.XLS
- EP1606748_0_QC.pdf
- EP1606748_0_QCI.pdf
- L368607_INV.pdf
- EP1606748_COC.pdf

Report Recipients

- ASHTON BETTI
  - EP1606748_0_COA.pdf (Email)
  - EP1606748_0_ENMRG.csv (Email)
  - P1193502 Wedge and Grey.ESDAT_EP1606748_0.Chemistry23.CSV (Email)
  - P1193502 Wedge and Grey.ESDAT_EP1606748_0.Header.XML (Email)
  - P1193502 Wedge and Grey.ESDAT_EP1606748_0.Sample23.CSV (Email)
  - EP1606748_0_XTAB.XLS (Email)
  - EP1606748_0_QC.pdf (Email)
  - EP1606748_0_QCI.pdf (Email)
  - L368607_INV.pdf (Email)
  - EP1606748_COC.pdf (Email)

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ALS Environmental

CERTIFICATE OF ANALYSIS

Work Order	: **EP1607422**	Page	: 1 of 4
Client	: **SENVERSA PTY LTD**	Laboratory	: Environmental Division Perth
Contact	: MS ASHTON BETTI	Contact	: Carol Walsh
Address	: LEVEL 25, 108 ST GEORGES TERRACE PERTH 6000	Address	: 10 Hod Way Malaga WA Australia 6090
Telephone	: +61 08 6557 8881	Telephone	: +61-3-8549 9608
Project	: Ex EP1607080 P1193502 Wedge and Grey	Date Samples Received	: 03-Aug-2016 16:25
Order number	: ----	Date Analysis Commenced	: 18-Aug-2016
C-O-C number	: ----	Issue Date	: 18-Aug-2016 14:50
Sampler	: SARAH HORGAN		
Site	: ----		
Quote number	: ----		
No. of samples received	: 9		
No. of samples analysed	: 9		

NATA Accredited Laboratory 825
Accredited for compliance with ISO/IEC 17025.

NATA WORLD RECOGNISED ACCREDITATION

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Descriptive Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Anandaraj Ramanujam	Senior Analyst	Melbourne Asbestos, Springvale, VIC

General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contact for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
ø = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

- EA200 was conducted by ALS Melbourne, NATA accreditation no. 825, site no 13778
- EA200N: Asbestos weights and percentages are not covered under the Scope of NATA Accreditation.
  Weights of Asbestos are based on extracted bulk asbestos, fibre bundles, and/or ACM and do not include respirable fibres (if present)
  The Friable Asbestos weight is calculated from the extracted Fibrous Asbestos and Asbestos Fines as an equivalent weight of 100% Asbestos
  Percentages for Asbestos content in ACM are based on the 2013 NEPM default values.
  All calculations of percentage Asbestos under this method are approximate and should be used as a guide only.
- EA200 'Am' Amosite (brown asbestos)
- EA200 'Cr' Crocidolite (blue asbestos)
- EA200 'Trace' - Asbestos fibres ("Free Fibres") detected by trace analysis per AS4964. The result can be interpreted that the sample contains detectable 'respirable' asbestos fibres
- EA200: Asbestos Identification Samples were analysed by Polarised Light Microscopy including dispersion staining.
- EA200 Legend
- EA200 'Ch' Chrysotile (white asbestos)
- EA200: 'UMF' Unknown Mineral Fibres. "-" indicates fibres detected may or may not be asbestos fibres. Confirmation by alternative techniques is recommended.
- EA200: Negative results for vinyl tiles should be confirmed by an independent analytical technique.
- EA200N: ALS laboratory procedures and methods used for the identification and quantitation of asbestos are consistent with AS4964-2004 and the requirements of the 2013 NEPM for Assessment of Site Contamination
- EA200: For samples larger than 30g, the <2mm fraction may be sub-sampled prior to trace analysis as outlined in ISO23909:2008(E) Sect 6.3.2-2
- EA200: 'Yes' - Asbestos detected by polarised light microscopy including dispersion staining.
- EA200: 'No*' - No asbestos found, at the reporting limit of 0.1g/kg, by polarised light microscopy including dispersion staining. Asbestos material was detected and positively identified at concentrations estimated to be below 0.1g/kg.
- EA200: 'No' - No asbestos found at the reporting limit 0.1g/kg, by polarised light microscopy including dispersion staining.

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	G09_AF_10	G09_AF_11	G09_AF_12	G09_AF_14	G09_AF_15
			Client sampling date / time	[02-Aug-2016]	[02-Aug-2016]	[02-Aug-2016]	[02-Aug-2016]	[02-Aug-2016]
Compound	CAS Number	LOR	Unit	EP1607422-001	EP1607422-002	EP1607422-003	EP1607422-004	EP1607422-005
				Result	Result	Result	Result	Result
EA200: AS 4964 - 2004 Identification of Asbestos in Soils								
Asbestos Detected	1332-21-4	0.1	g/kg	**No***	**No***	**No***	**No**	**No***
Asbestos Type	1332-21-4	-	--	**Ch**	**Ch**	**Ch**	**-**	**Ch**
Sample weight (dry)	----	0.01	g	**627**	**539**	**533**	**490**	**595**
APPROVED IDENTIFIER:	----	-	--	**Anand.Ramanujam**	**Anand.Ramanujam**	**Anand.Ramanujam**	**Anand.Ramanujam**	**Anand.Ramanujam**
EA200F: Friable Asbestos in Soil (non-NATA)								
Free Fibres	----	5	Fibres	**No**	**No**	**No**	**No**	**No**
Friable Asbestos	1332-21-4	0.0004	g	**0.0022**	**0.0016**	**0.0041**	<0.0004	**0.0013**
Friable Asbestos (as Asbestos in Soil)	1332-21-4	0.001	% (w/w)	<0.001	<0.001	<0.001	<0.001	<0.001
Weight Used for % Calculation	----	0.0001	kg	**0.627**	**0.539**	**0.533**	**0.490**	**0.595**
EA200N: ACM Asbestos in Soil (non-NATA)								
Asbestos Containing Material	1332-21-4	0.1	g	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos Containing Material (as 15% Asbestos in ACM >7mm)	1332-21-4	0.01	% (w/w)	<0.01	<0.01	<0.01	<0.01	<0.01

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	G067_AF_01	G067_AF_02	G067_AF_03	G067_AF_04	----
			Client sampling date / time	[02-Aug-2016]	[02-Aug-2016]	[02-Aug-2016]	[02-Aug-2016]	----
Compound	CAS Number	LOR	Unit	EP1607422-006	EP1607422-007	EP1607422-008	EP1607422-009	--------
				Result	Result	Result	Result	----
EA200: AS 4964 - 2004 Identification of Asbestos in Soils								
Asbestos Detected	1332-21-4	0.1	g/kg	**No**	**No**	**No**	**No**	**----**
Asbestos Type	1332-21-4	-	--	**-**	**-**	**-**	**-**	**----**
Sample weight (dry)	----	0.01	g	**670**	**833**	**692**	**790**	**----**
APPROVED IDENTIFIER:	----	-	--	**Anand.Ramanujam**	**Anand.Ramanujam**	**Anand.Ramanujam**	**Anand.Ramanujam**	**----**
EA200F: Friable Asbestos in Soil (non-NATA)								
Free Fibres	----	5	Fibres	**No**	**No**	**No**	**No**	**----**
Friable Asbestos	1332-21-4	0.0004	g	<0.0004	<0.0004	<0.0004	<0.0004	**----**
Friable Asbestos (as Asbestos in Soil)	1332-21-4	0.001	% (w/w)	<0.001	<0.001	<0.001	<0.001	**----**
Weight Used for % Calculation	----	0.0001	kg	**0.670**	**0.833**	**0.692**	**0.790**	**----**
EA200N: ACM Asbestos in Soil (non-NATA)								
Asbestos Containing Material	1332-21-4	0.1	g	<0.1	<0.1	<0.1	<0.1	**----**
Asbestos Containing Material (as 15% Asbestos in ACM >7mm)	1332-21-4	0.01	% (w/w)	<0.01	<0.01	<0.01	<0.01	**----**

Analytical Results

Descriptive Results

Sub-Matrix: **SOIL**

Method: Compound	Client sample ID - Client sampling date / time	Analytical Results
EA200: AS 4964 - 2004 Identification of Asbestos in Soils		
EA200: Description	G09_AF_10 - [02-Aug-2016]	Sandy soil with plant matter and four asbestos containing fibro fragments approximately 6 x 2 x 1mm
EA200: Description	G09_AF_11 - [02-Aug-2016]	Sandy soil with plant matter and two asbestos containing fibro fragments approximately 5 x 2 x 1mm
EA200: Description	G09_AF_12 - [02-Aug-2016]	Sandy soil with plant matter and two asbestos containing fibro fragments approximately 5 x 4 x 1mm
EA200: Description	G09_AF_14 - [02-Aug-2016]	Sandy soil with plant matter
EA200: Description	G09_AF_15 - [02-Aug-2016]	Sandy soil with plant matter and an asbestos containing fibro fragment approximately 3 x 2 x 1mm
EA200: Description	G067_AF_01 - [02-Aug-2016]	Sandy soil with plant matter and small rocks
EA200: Description	G067_AF_02 - [02-Aug-2016]	Sandy soil with plant matter and small rocks
EA200: Description	G067_AF_03 - [02-Aug-2016]	Sandy soil with plant matter and small rocks and synthetic mineral fibre material
EA200: Description	G067_AF_04 - [02-Aug-2016]	Sandy soil with plant matter and small rocks

ALS Environmental

QUALITY CONTROL REPORT

Work Order	: **EP1607422**	Page	: 1 of 3
Client	: **SENVERSA PTY LTD**	Laboratory	: Environmental Division Perth
Contact	: MS ASHTON BETTI	Contact	: Carol Walsh
Address	: LEVEL 25, 108 ST GEORGES TERRACE PERTH 6000	Address	: 10 Hod Way Malaga WA Australia 6090
Telephone	: +61 08 6557 8881	Telephone	: +61-3-8549 9608
Project	: Ex EP1607080 P1193502 Wedge and Grey	Date Samples Received	: 03-Aug-2016
Order number	: ----	Date Analysis Commenced	: 18-Aug-2016
C-O-C number	: ----	Issue Date	: 18-Aug-2016
Sampler	: SARAH HORGAN		
Site	: ----		
Quote number	: ----		
No. of samples received	: 9		
No. of samples analysed	: 9		

NATA Accredited Laboratory 825
Accredited for compliance with
ISO/IEC 17025.

NATA
WORLD RECOGNISED ACCREDITATION

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Anandaraj Ramanujam	Senior Analyst	Melbourne Asbestos, Springvale, VIC

General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis. Where the LOR of a reported result differs from standard LOR, this may be due to high

Key : Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot
CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
RPD = Relative Percentage Difference
# = Indicates failed QC

Laboratory Duplicate (DUP) Report

The quality control term Laboratory Duplicate refers to a randomly selected intralaboratory split. Laboratory duplicates provide information regarding method precision and sample heterogeneity. The permitted ranges for the Relative Percent Deviation (RPD) of Laboratory Duplicates are specified in ALS Method QWI-EN/38 and are dependent on the magnitude of results in comparison to the level of reporting: Result < 10 times LOR: No Limit; Result between 10 and 20 times LOR: 0% - 50%; Result > 20 times LOR: 0% - 20%.

- **No Laboratory Duplicate (DUP) Results are required to be reported.**

Method Blank (MB) and Laboratory Control Spike (LCS) Report

The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC parameter is to monitor potential laboratory contamination. The quality control term Laboratory Control Spike (LCS) refers to a certified reference material, or a known interference free matrix spiked with target analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS.

- **No Method Blank (MB) or Laboratory Control Spike (LCS) Results are required to be reported.**

Matrix Spike (MS) Report

The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

- **No Matrix Spike (MS) or Matrix Spike Duplicate (MSD) Results are required to be reported.**

ALS Environmental

QA/QC Compliance Assessment to assist with Quality Review

Work Order	: **EP1607422**	Page	: 1 of 4
Client	: **SENVERSA PTY LTD**	Laboratory	: Environmental Division Perth
Contact	: MS ASHTON BETTI	Telephone	: +61-3-8549 9608
Project	: Ex EP1607080 P1193502 Wedge and Grey	Date Samples Received	: 03-Aug-2016
Site	: ----	Issue Date	: 18-Aug-2016
Sampler	: SARAH HORGAN	No. of samples received	: 9
Order number	: ----	No. of samples analysed	: 9

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.

Brief method summaries and references are also provided to assist in traceability.

Summary of Outliers

Outliers : Quality Control Samples

This report highlights outliers flagged in the Quality Control (QC) Report.

- **NO Method Blank value outliers occur.**
- **NO Duplicate outliers occur.**
- **NO Laboratory Control outliers occur.**
- **NO Matrix Spike outliers occur.**
- **For all regular sample matrices, NO surrogate recovery outliers occur.**

Outliers : Analysis Holding Time Compliance

- **NO Analysis Holding Time Outliers exist.**

Outliers : Frequency of Quality Control Samples

- **NO Quality Control Sample Frequency Outliers exist.**

Analysis Holding Time Compliance

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results.

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein.

Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 28 days & other metals 180 days. A recorded breach does not guarantee a breach for all non-volatile parameters.

Holding times for ***VOC in soils*** vary according to analytes of interest. Vinyl Chloride and Styrene holding time is 7 days; others 14 days. A recorded breach does not guarantee a breach for all VOC analytes and should be verified in case the reported breach is a false positive or Vinyl Chloride and Styrene are not key analytes of interest/concern.

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EA200: AS 4964 - 2004 Identification of Asbestos in Soils							
Snap Lock Bag - Friable Asbestos/PSD Bag (EA200N)							
G09_AF_10, G09_AF_11, G09_AF_12, G09_AF_14, G09_AF_15, G067_AF_01, G067_AF_02, G067_AF_03, G067_AF_04	**02-Aug-2016**	**----**	----	----	**18-Aug-2016**	29-Jan-2017	✓
EA200F: Friable Asbestos in Soil (non-NATA)							
Snap Lock Bag - Friable Asbestos/PSD Bag (EA200N)							
G09_AF_10, G09_AF_11, G09_AF_12, G09_AF_14, G09_AF_15, G067_AF_01, G067_AF_02, G067_AF_03, G067_AF_04	**02-Aug-2016**	**----**	----	----	**18-Aug-2016**	29-Jan-2017	✓
EA200N: ACM Asbestos in Soil (non-NATA)							
Snap Lock Bag - Friable Asbestos/PSD Bag (EA200N)							
G09_AF_10, G09_AF_11, G09_AF_12, G09_AF_14, G09_AF_15, G067_AF_01, G067_AF_02, G067_AF_03, G067_AF_04	**02-Aug-2016**	**----**	----	----	**18-Aug-2016**	29-Jan-2017	✓

Quality Control Parameter Frequency Compliance

- **No Quality Control data available for this section.**

Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

Analytical Methods	Method	Matrix	Method Descriptions
Asbestos Identification in Soils	EA200	SOIL	AS 4964 - 2004 Method for the qualitative identification of asbestos in bulk samples Analysis by Polarised Light Microscopy including dispersion staining
Asbestos Classification and Quantitation per NEPM 2013	EA200N	SOIL	Asbestos Classification and Quantitation per NEPM 2013 with Confirmation of Identification by AS 4964 - 2004 Gravimetric determination of Asbestos Containing Material, Friable Asbestos and sample weight and calculation of percentage concentrations per NEPM protocols. Friable Asbestos is reported as the equivalent weight in the sample received after accounting for sub-sampling (where applicable for the <7mm and/or <2mm fractions).

SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order : **EP1607422**

Client	: **SENVERSA PTY LTD**	Laboratory	: Environmental Division Perth
Contact	: MS ASHTON BETTI	Contact	: Carol Walsh
Address	: LEVEL 25, 108 ST GEORGES TERRACE PERTH 6000	Address	: 10 Hod Way Malaga WA Australia 6090
E-mail	: Ashton.Betti@senversa.com.au	E-mail	: carol.walsh@alsglobal.com
Telephone	: +61 08 6557 8881	Telephone	: +61-3-8549 9608
Facsimile	: +61 03 9606 0074	Facsimile	: +61-8-9209 7600
Project	: Ex EP1607080 P1193502 Wedge and Grey	Page	: 1 of 2
Order number	: ----	Quote number	: EP2016SENVER0002 (EP/828/16)
C-O-C number	: ----	QC Level	: NEPM 2013 B3 & ALS QC Standard
Site	: ----		
Sampler	: SARAH HORGAN		

Dates

Date Samples Received	: 03-Aug-2016 4:25 PM	Issue Date	: 15-Aug-2016
Client Requested Due Date	: 23-Aug-2016	Scheduled Reporting Date	: **23-Aug-2016**

Delivery Details

Mode of Delivery	: Samples On Hand	Security Seal	: Not Available
No. of coolers/boxes	: 0	Temperature	: N/A
Receipt Detail	:	No. of samples received / analysed	: 5 / 5

General Comments

- This report contains the following information:
  - Sample Container(s)/Preservation Non-Compliances
  - Summary of Sample(s) and Requested Analysis
  - Proactive Holding Time Report
  - Requested Deliverables
- Please see scanned COC for sample discrepencies: extra samples , samples not received etc.
- Please direct any queries related to sample condition / numbering / breakages to Sample Receipt (SamplesPerth@alsenviro.com)
- Analytical work for this work order will be conducted at ALS Environmental Perth.
- Please direct any turnaround / technical queries to the laboratory contact designated above.
- Sample Disposal - Aqueous (14 days), Solid (60 days) from date of completion of Work Order.
- **pH analysis should be conducted within 6 hours of sampling.**

Sample Container(s)/Preservation Non-Compliances

All comparisons are made against pretreatment/preservation AS, APHA, USEPA standards.

- **No sample container / preservation non-compliance exists.**

Summary of Sample(s) and Requested Analysis

Some items described below may be part of a laboratory process necessary for the execution of client requested tasks. Packages may contain additional analyses, such as the determination of moisture content and preparation tasks, that are included in the package.
If no sampling time is provided, the sampling time will default to 15:00 on the date of sampling. If no sampling date is provided, the sampling date will be assumed by the laboratory for processing purposes and will be shown bracketed without a time component.

Matrix: **SOIL**

Laboratory sample ID	Client sampling date / time	Client sample ID	SOIL - EA200N-TBA Asbestos Identification in Soils - Quantitation by
EP1607422-001	[02-Aug-2016]	G09_AF_10	✓
EP1607422-002	[02-Aug-2016]	G09_AF_11	✓
EP1607422-003	[02-Aug-2016]	G09_AF_12	✓
EP1607422-004	[02-Aug-2016]	G09_AF_14	✓
EP1607422-005	[02-Aug-2016]	G09_AF_15	✓

Proactive Holding Time Report

Sample(s) have been received within the recommended holding times for the requested analysis.

Requested Deliverables

ASHTON BETTI

- *AU Certificate of Analysis - NATA (COA)	Email	Ashton.Betti@senversa.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	Ashton.Betti@senversa.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	Ashton.Betti@senversa.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	Ashton.Betti@senversa.com.au
- Chain of Custody (CoC) (COC)	Email	Ashton.Betti@senversa.com.au
- EDI Format - ENMRG (ENMRG)	Email	Ashton.Betti@senversa.com.au
- EDI Format - ESDAT (ESDAT)	Email	Ashton.Betti@senversa.com.au
- EDI Format - XTab (XTAB)	Email	Ashton.Betti@senversa.com.au

INVOICES INVOICES

- A4 - AU Tax Invoice (INV)	Email	accounts@senversa.com.au

SARAH HORGAN

- *AU Certificate of Analysis - NATA (COA)	Email	Sarah.Horgan@senversa.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	Sarah.Horgan@senversa.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	Sarah.Horgan@senversa.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	Sarah.Horgan@senversa.com.au
- Chain of Custody (CoC) (COC)	Email	Sarah.Horgan@senversa.com.au
- EDI Format - ENMRG (ENMRG)	Email	Sarah.Horgan@senversa.com.au
- EDI Format - ESDAT (ESDAT)	Email	Sarah.Horgan@senversa.com.au
- EDI Format - XTab (XTAB)	Email	Sarah.Horgan@senversa.com.au

Joshua Rees

From: Lauren Ockwell
Sent: Monday, 15 August 2016 2:27 PM
To: Joshua Rees
Subject: FW: EP1607080 Additional Analysis
Attachments: RE: EP1607080 Additional Analysis

Mr. Joshua Rees 15/08/16 14:27

Importance: High

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Josh,

Can you please handle this rebatch request? See attached further instruction.

Kind Regards,

Environmental Division
Perth
Work Order Reference
EP1607422

Telephone : +61-8-9209 7655

Lauren Ockwell
Client Services Manager, Environmental
Western Australia

T +61 8 9209 7655 D +61 8 9209 7606
F +61 8 9209 7600 M +61 419 788 263
lauren.ockwell@alsglobal.com
10 Hod Way
Malaga WA 6090
AUSTRALIA

From: Ashton Betti [mailto:Ashton.Betti@senversa.com.au]
Sent: Monday, 15 August 2016 1:58 PM
To: Lauren Ockwell <Lauren.Ockwell@alsglobal.com>
Subject: EP1607080 Additional Analysis

Hi Lauren,

Could I please request asbestos analysis be undertaken on the following additional samples from EP1607080:

1. - G09_AF_10
2. - G09_AF_11
3. - G09_AF_12
4. - G09_AF_14
5. - G09_AF_15

Thanks

Ashton

Ashton Betti
Associate Environmental Scientist

senversa

Senversa Pty Ltd
Level 25, 108 St Georges Terrace, Perth WA 6000

m: +61 421 473 219 | e: ashton.betti@senversa.com.au
t: +61 8 6557 8881 | w: www.senversa.com.au

ALS Environmental

CERTIFICATE OF ANALYSIS

Work Order	: **EP1607629**	Page	: 1 of 12
Client	: **SENVERSA PTY LTD**	Laboratory	: Environmental Division Perth
Contact	: MS ASHTON BETTI	Contact	: Carol Walsh
Address	: LEVEL 25, 108 ST GEORGES TERRACE PERTH 6000	Address	: 10 Hod Way Malaga WA Australia 6090
Telephone	: +61 08 6557 8881	Telephone	: +61-3-8549 9608
Project	: P1193502 Wedge and Grey	Date Samples Received	: 19-Aug-2016 15:00
Order number	: ----	Date Analysis Commenced	: 22-Aug-2016
C-O-C number	: ----	Issue Date	: 26-Aug-2016 14:30
Sampler	: SARAH HORGAN		
Site	: ----		
Quote number	: ----		
No. of samples received	: 41		
No. of samples analysed	: 40		

NATA Accredited Laboratory 825
Accredited for compliance with ISO/IEC 17025.

NATA WORLD RECOGNISED ACCREDITATION

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Descriptive Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Gerrad Morgan	Asbestos Identifier	Newcastle - Asbestos, Mayfield West, NSW
Shaun Spooner	Asbestos Identifier	Newcastle - Asbestos, Mayfield West, NSW

General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contact for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
ø = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

- Asbestos conducted by ALS Newcastle, NATA accreditation no. 825, site no 1656.
- EA200: Asbestos Identification Samples were analysed by Polarised Light Microscopy including dispersion staining.
- EA200: Negative results for vinyl tiles should be confirmed by an independent analytical technique.
- EA200 Legend
- EA200 'Am' Amosite (brown asbestos)
- EA200 'Ch' Chrysotile (white asbestos)
- EA200 'Cr' Crocidolite (blue asbestos)
- EA200: 'UMF' Unknown Mineral Fibres. "-" indicates fibres detected may or may not be asbestos fibres. Confirmation by alternative techniques is recommended.

Analytical Results

Sub-Matrix: SOLID (Matrix: SOLID)			Client sample ID	W6_W13_013	W_Common Area_014	W5_W135_015	W5_W345_016	W5_W355_017
			Client sampling date / time	[12-Aug-2016]	[12-Aug-2016]	[12-Aug-2016]	[12-Aug-2016]	[12-Aug-2016]
Compound	CAS Number	LOR	Unit	EP1607629-001	EP1607629-002	EP1607629-003	EP1607629-004	EP1607629-005
				Result	Result	Result	Result	Result
EA200: AS 4964 - 2004 Identification of Asbestos in bulk samples								
Asbestos Detected	1332-21-4	0.1	g/kg	**Yes**	**Yes**	**Yes**	**No**	**Yes**
Asbestos Type	1332-21-4	-	--	**Ch + Am**	**Ch + Am**	**Ch + Am**	**-**	**Ch + Am**
Sample weight (dry)	----	0.01	g	**15.5**	**75.7**	**4.74**	**10.6**	**28.8**
APPROVED IDENTIFIER:	----	-	--	**N.WEBB**	**N.WEBB**	**N.WEBB**	**N.WEBB**	**N.WEBB**

Analytical Results

Sub-Matrix: SOLID (Matrix: SOLID)			Client sample ID	W4_W92_018	W8_W288_014	W8_Common Area_20	W10_W305_21	W10_W304_22
			Client sampling date / time	[12-Aug-2016]	[12-Aug-2016]	[12-Aug-2016]	[12-Aug-2016]	[12-Aug-2016]
Compound	CAS Number	LOR	Unit	EP1607629-006	EP1607629-007	EP1607629-008	EP1607629-009	EP1607629-010
				Result	Result	Result	Result	Result
EA200: AS 4964 - 2004 Identification of Asbestos in bulk samples								
Asbestos Detected	1332-21-4	0.1	g/kg	**Yes**	**Yes**	**Yes**	**No**	**No**
Asbestos Type	1332-21-4	-	--	**Ch + Am**	**Ch + Am**	**Ch + Am**	**-**	**-**
Sample weight (dry)	----	0.01	g	**9.14**	**21.8**	**9.73**	**14.4**	**36.8**
APPROVED IDENTIFIER:	----	-	--	**N.WEBB**	**N.WEBB**	**N.WEBB**	**N.WEBB**	**N.WEBB**

Analytical Results

Sub-Matrix: SOLID (Matrix: SOLID)			Client sample ID	W15_W142_23	W15_W235_24	W10_W304_25	W16_W207_26	G4_G109_002
			Client sampling date / time	[12-Aug-2016]	[12-Aug-2016]	[12-Aug-2016]	[12-Aug-2016]	[11-Aug-2016]
Compound	CAS Number	LOR	Unit	EP1607629-011	EP1607629-012	EP1607629-013	EP1607629-014	EP1607629-015
				Result	Result	Result	Result	Result
EA200: AS 4964 - 2004 Identification of Asbestos in bulk samples								
Asbestos Detected	1332-21-4	0.1	g/kg	**Yes**	**No**	**No**	**No**	**No**
Asbestos Type	1332-21-4	-	--	**Ch**	**-**	**-**	**-**	**-**
Sample weight (dry)	----	0.01	g	**1.72**	**7.01**	**32.3**	**23.0**	**2.42**
APPROVED IDENTIFIER:	----	-	--	**N.WEBB**	**N.WEBB**	**N.WEBB**	**N.WEBB**	**N.WEBB**

Analytical Results

Sub-Matrix: SOLID (Matrix: SOLID)			Client sample ID	G3_G100_003	G3_G106_004	G4_G116_005	G4_G133_006	G4_Track_007
			Client sampling date / time	[11-Aug-2016]	[11-Aug-2016]	[11-Aug-2016]	[11-Aug-2016]	[11-Aug-2016]
Compound	CAS Number	LOR	Unit	EP1607629-016	EP1607629-017	EP1607629-018	EP1607629-019	EP1607629-020
				Result	Result	Result	Result	Result
EA200: AS 4964 - 2004 Identification of Asbestos in bulk samples								
Asbestos Detected	1332-21-4	0.1	g/kg	**Yes**	**Yes**	**Yes**	**No**	**Yes**
Asbestos Type	1332-21-4	-	--	**Ch + Am**	**Ch + Am**	**Ch + Am**	**-**	**Ch + Am**
Sample weight (dry)	----	0.01	g	**2.69**	**3.35**	**8.77**	**2.63**	**3.39**
APPROVED IDENTIFIER:	----	-	--	**N.WEBB**	**N.WEBB**	**N.WEBB**	**N.WEBB**	**N.WEBB**

Analytical Results

Sub-Matrix: SOLID (Matrix: SOLID)				Client sample ID	G3_G79_008	G3_G80_009	G5_G129_10	G5_G130_11	G5_G122_12
				Client sampling date / time	[12-Aug-2016]	[12-Aug-2016]	[12-Aug-2016]	[12-Aug-2016]	[12-Aug-2016]
Compound	CAS Number	LOR	Unit		EP1607629-021	EP1607629-022	EP1607629-023	EP1607629-024	EP1607629-025
					Result	Result	Result	Result	Result
EA200: AS 4964 - 2004 Identification of Asbestos in bulk samples									
Asbestos Detected	1332-21-4	0.1	g/kg		**Yes**	**Yes**	**No**	**No**	**Yes**
Asbestos Type	1332-21-4	-	--		**Ch + Am**	**Ch + Am**	**-**	**-**	**Ch + Am**
Sample weight (dry)	----	0.01	g		**9.53**	**9.05**	**11.8**	**17.1**	**31.1**
APPROVED IDENTIFIER:	----	-	--		**N.WEBB**	**N.WEBB**	**N.WEBB**	**N.WEBB**	**N.WEBB**

Analytical Results

Sub-Matrix: SOLID (Matrix: SOLID)			Client sample ID	G3_G92_14	G5_G122_15	G1_G32_016	G1_G63_017	G2_G85_018
			Client sampling date / time	[12-Aug-2016]	[12-Aug-2016]	[18-Aug-2016]	[18-Aug-2016]	[18-Aug-2016]
Compound	CAS Number	LOR	Unit	EP1607629-026	EP1607629-027	EP1607629-028	EP1607629-029	EP1607629-030
				Result	Result	Result	Result	Result
EA200: AS 4964 - 2004 Identification of Asbestos in bulk samples								
Asbestos Detected	1332-21-4	0.1	g/kg	**Yes**	**No**	**Yes**	**Yes**	**Yes**
Asbestos Type	1332-21-4	-	--	**Ch**	**-**	**Ch + Am + Cr**	**Ch + Am**	**Ch + Am**
Sample weight (dry)	----	0.01	g	**53.3**	**39.1**	**8.63**	**12.7**	**7.15**
APPROVED IDENTIFIER:	----	-	--	**N.WEBB**	**S.SPOONER**	**S.SPOONER**	**S.SPOONER**	**S.SPOONER**

Analytical Results

Sub-Matrix: SOLID (Matrix: SOLID)			Client sample ID	G2_G85_019	G2_G50_20	G2_G40_21	G2_G40_22	G2_G56_23
			Client sampling date / time	[18-Aug-2016]	[18-Aug-2016]	[18-Aug-2016]	[18-Aug-2016]	[18-Aug-2016]
Compound	CAS Number	LOR	Unit	EP1607629-031	EP1607629-032	EP1607629-033	EP1607629-034	EP1607629-035
				Result	Result	Result	Result	Result
EA200: AS 4964 - 2004 Identification of Asbestos in bulk samples								
Asbestos Detected	1332-21-4	0.1	g/kg	**Yes**	**Yes**	**No**	**No**	**Yes**
Asbestos Type	1332-21-4	-	--	**Ch + Am**	**Ch + Am**	**-**	**-**	**Ch + Cr**
Sample weight (dry)	----	0.01	g	**2.42**	**8.33**	**5.25**	**62.7**	**5.07**
APPROVED IDENTIFIER:	----	-	--	**S.SPOONER**	**S.SPOONER**	**S.SPOONER**	**S.SPOONER**	**S.SPOONER**

Analytical Results

Sub-Matrix: SOLID (Matrix: SOLID)			Client sample ID	G4_G116_24	G4_G116_25	G2_G28_26	G4_Track_13	G4_Track_14
			Client sampling date / time	[18-Aug-2016]	[18-Aug-2016]	[18-Aug-2016]	[12-Aug-2016]	[12-Aug-2016]
Compound	CAS Number	LOR	Unit	EP1607629-036	EP1607629-037	EP1607629-038	EP1607629-039	EP1607629-040
				Result	Result	Result	Result	Result
EA200: AS 4964 - 2004 Identification of Asbestos in bulk samples								
Asbestos Detected	1332-21-4	0.1	g/kg	**Yes**	**Yes**	**Yes**	**Yes**	**No**
Asbestos Type	1332-21-4	-	--	**Ch + Am**	**Ch + Am**	**Ch + Am**	**Ch + Am + Cr**	**-**
Sample weight (dry)	----	0.01	g	**9.88**	**4.78**	**24.3**	**30.1**	**52.2**
APPROVED IDENTIFIER:	----	-	--	**S.SPOONER**	**S.SPOONER**	**S.SPOONER**	**G.MORGAN**	**G.MORGAN**

Analytical Results

Descriptive Results

Sub-Matrix: **SOLID**

Method: Compound	Client sample ID - Client sampling date / time	Analytical Results
EA200: AS 4964 - 2004 Identification of Asbestos in bulk samples		
EA200: Description	W6_W13_013 - [12-Aug-2016]	One piece of bonded asbestos cement sheeting approx 50 x 35 x 4 mm.
EA200: Description	W_Common Area_014 - [12-Aug-2016]	Two pieces of bonded asbestos cement sheeting approx 80 x 60 x 5 mm.
EA200: Description	W5_W135_015 - [12-Aug-2016]	Two pieces of bonded asbestos cement sheeting approx 40 x 20 x 7 mm.
EA200: Description	W5_W345_016 - [12-Aug-2016]	Several pieces of organic fibre board approx 50 x 30 x 5 mm.
EA200: Description	W5_W355_017 - [12-Aug-2016]	One piece of bonded asbestos cement sheeting approx 70 x 60 x 5 mm.
EA200: Description	W4_W92_018 - [12-Aug-2016]	Two pieces of bonded asbestos cement sheeting approx 60 x 20 x 4 mm.
EA200: Description	W8_W288_014 - [12-Aug-2016]	One piece of bonded asbestos cement sheeting approx 100 x 30 x 5 mm.
EA200: Description	W8_Common Area_20 - [12-Aug-2016]	One piece of bonded asbestos cement sheeting with friable edges approx 110 x 35 x 2 mm.
EA200: Description	W10_W305_21 - [12-Aug-2016]	One piece of organic fibre board approx 80 x 50 x 4 mm.
EA200: Description	W10_W304_22 - [12-Aug-2016]	Two pieces of organic fibre board approx 85 x 60 x 6 mm.
EA200: Description	W15_W142_23 - [12-Aug-2016]	Four pieces of friable asbestos fibre board approx 20 x 20 x 3 mm.
EA200: Description	W15_W235_24 - [12-Aug-2016]	One piece of organic fibre board approx 55 x 30 x 5 mm.
EA200: Description	W10_W304_25 - [12-Aug-2016]	Three pieces of cement sheeting approx 60 x 50 x 8 mm.
EA200: Description	W16_W207_26 - [12-Aug-2016]	Four pieces of cement sheeting approx 55 x 25 x 8 mm.
EA200: Description	G4_G109_002 - [11-Aug-2016]	Two pieces of organic fibre board approx 25 x 15 x 5 mm.
EA200: Description	G3_G100_003 - [11-Aug-2016]	Two pieces of bonded asbestos cement sheeting approx 25 x 20 x 4 mm.
EA200: Description	G3_G106_004 - [11-Aug-2016]	Two pieces of bonded asbestos cement sheeting approx 40 x 15 x 5 mm.
EA200: Description	G4_G116_005 - [11-Aug-2016]	One piece of bonded asbestos cement sheeting approx 40 x 35 x 7 mm.
EA200: Description	G4_G133_006 - [11-Aug-2016]	One piece of organic fibre board approx 40 x 20 x 4 mm.
EA200: Description	G4_Track_007 - [11-Aug-2016]	Two pieces of bonded asbestos cement sheeting approx 30 x 15 x 7 mm.
EA200: Description	G3_G79_008 - [12-Aug-2016]	One piece of bonded asbestos cement sheeting approx 40 x 40 x 4 mm.
EA200: Description	G3_G80_009 - [12-Aug-2016]	One piece of bonded asbestos cement sheeting approx 45 x 35 x 5 mm.
EA200: Description	G5_G129_10 - [12-Aug-2016]	Two pieces of cement sheeting approx 45 x 40 x 4 mm.
EA200: Description	G5_G130_11 - [12-Aug-2016]	Three pieces of cement sheeting approx 40 x 30 x 6 mm.
EA200: Description	G5_G122_12 - [12-Aug-2016]	One piece of bonded asbestos cement sheeting approx 95 x 40 x 6 mm.
EA200: Description	G3_G92_14 - [12-Aug-2016]	Two pieces of cement sheeting plus one piece of bonded asbestos fibre board approx 75 x 50 x 7 mm.
EA200: Description	G5_G122_15 - [12-Aug-2016]	Concrete debris containing polystyrene balls.
EA200: Description	G1_G32_016 - [18-Aug-2016]	One piece of bonded asbestos cement sheeting approx 50 x 30 x 4 mm.
EA200: Description	G1_G63_017 - [18-Aug-2016]	One piece of bonded asbestos cement sheeting approx 45 x 30 x 7 mm.
EA200: Description	G2_G85_018 - [18-Aug-2016]	Two pieces of bonded asbestos cement sheeting approx 30 x 20 x 6 mm.
EA200: Description	G2_G85_019 - [18-Aug-2016]	One piece of bonded asbestos cement sheeting approx 25 x 20 x 5 mm.
EA200: Description	G2_G50_20 - [18-Aug-2016]	Two pieces of bonded asbestos cement sheeting approx 40 x 20 x 5 mm.
EA200: Description	G2_G40_21 - [18-Aug-2016]	One piece of cement sheeting approx 40 x 25 x 7 mm.
EA200: Description	G2_G40_22 - [18-Aug-2016]	One piece of cement sheeting approx 110 x 90 x 7 mm.
EA200: Description	G2_G56_23 - [18-Aug-2016]	Two pieces of bonded asbestos cement sheeting approx 30 x 20 x 4 mm.
EA200: Description	G4_G116_24 - [18-Aug-2016]	Two pieces of bonded asbestos cement sheeting approx 55 x 25 x 5 mm.
EA200: Description	G4_G116_25 - [18-Aug-2016]	One piece of bonded asbestos cement sheeting approx 40 x 20 x 6 mm.

Sub-Matrix: **SOLID**

Method: Compound	*Client sample ID - Client sampling date / time*	*Analytical Results*
EA200: Description	G2_G28_26 - [18-Aug-2016]	Several pieces of bonded asbestos cement sheeting approx 30 x 20 x 5 mm plus several fragments of cement sheeting.
EA200: Description	G4_Track_13 - [12-Aug-2016]	Two pieces of bonded asbestos cement sheeting approximately 50 x 40 x 5mm.
EA200: Description	G4_Track_14 - [12-Aug-2016]	Three pieces of cement debris approximately 45 x 35 x 13mm.

ALS Environmental

QUALITY CONTROL REPORT

Work Order	: **EP1607629**	Page	: 1 of 3
Client	: **SENVERSA PTY LTD**	Laboratory	: Environmental Division Perth
Contact	: MS ASHTON BETTI	Contact	: Carol Walsh
Address	: LEVEL 25, 108 ST GEORGES TERRACE PERTH 6000	Address	: 10 Hod Way Malaga WA Australia 6090
Telephone	: +61 08 6557 8881	Telephone	: +61-3-8549 9608
Project	: P1193502 Wedge and Grey	Date Samples Received	: 19-Aug-2016
Order number	: ----	Date Analysis Commenced	: 22-Aug-2016
C-O-C number	: ----	Issue Date	: 26-Aug-2016
Sampler	: SARAH HORGAN		
Site	: ----		
Quote number	: ----		
No. of samples received	: 41		
No. of samples analysed	: 40		

NATA Accredited Laboratory 825
Accredited for compliance with
ISO/IEC 17025.

NATA
WORLD RECOGNISED ACCREDITATION

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Gerrad Morgan	Asbestos Identifier	Newcastle - Asbestos, Mayfield West, NSW
Shaun Spooner	Asbestos Identifier	Newcastle - Asbestos, Mayfield West, NSW

General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis. Where the LOR of a reported result differs from standard LOR, this may be due to high

Key : Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot
CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
RPD = Relative Percentage Difference
# = Indicates failed QC

Laboratory Duplicate (DUP) Report

The quality control term Laboratory Duplicate refers to a randomly selected intralaboratory split. Laboratory duplicates provide information regarding method precision and sample heterogeneity. The permitted ranges for the Relative Percent Deviation (RPD) of Laboratory Duplicates are specified in ALS Method QWI-EN/38 and are dependent on the magnitude of results in comparison to the level of reporting: Result < 10 times LOR: No Limit; Result between 10 and 20 times LOR: 0% - 50%; Result > 20 times LOR: 0% - 20%.

- **No Laboratory Duplicate (DUP) Results are required to be reported.**

Method Blank (MB) and Laboratory Control Spike (LCS) Report

The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC parameter is to monitor potential laboratory contamination. The quality control term Laboratory Control Spike (LCS) refers to a certified reference material, or a known interference free matrix spiked with target analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS.

- **No Method Blank (MB) or Laboratory Control Spike (LCS) Results are required to be reported.**

Matrix Spike (MS) Report

The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

- **No Matrix Spike (MS) or Matrix Spike Duplicate (MSD) Results are required to be reported.**

ALS Environmental

QA/QC Compliance Assessment to assist with Quality Review

Work Order	: **EP1607629**	Page	: 1 of 4
Client	: **SENVERSA PTY LTD**	Laboratory	: Environmental Division Perth
Contact	: MS ASHTON BETTI	Telephone	: +61-3-8549 9608
Project	: P1193502 Wedge and Grey	Date Samples Received	: 19-Aug-2016
Site	: ----	Issue Date	: 26-Aug-2016
Sampler	: SARAH HORGAN	No. of samples received	: 41
Order number	: ----	No. of samples analysed	: 40

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.

Brief method summaries and references are also provided to assist in traceability.

Summary of Outliers

Outliers : Quality Control Samples

This report highlights outliers flagged in the Quality Control (QC) Report.

- **NO Method Blank value outliers occur.**
- **NO Duplicate outliers occur.**
- **NO Laboratory Control outliers occur.**
- **NO Matrix Spike outliers occur.**
- **For all regular sample matrices, NO surrogate recovery outliers occur.**

Outliers : Analysis Holding Time Compliance

- **NO Analysis Holding Time Outliers exist.**

Outliers : Frequency of Quality Control Samples

- **NO Quality Control Sample Frequency Outliers exist.**

Analysis Holding Time Compliance

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results.

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein.

Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 28 days & other metals 180 days. A recorded breach does not guarantee a breach for all non-volatile parameters.

Holding times for ***VOC in soils*** vary according to analytes of interest. Vinyl Chloride and Styrene holding time is 7 days; others 14 days. A recorded breach does not guarantee a breach for all VOC analytes and should be verified in case the reported breach is a false positive or Vinyl Chloride and Styrene are not key analytes of interest/concern.

Matrix: **SOLID**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EA200: AS 4964 - 2004 Identification of Asbestos in bulk samples							
Snap Lock Bag - Friable Asbestos/PSD Bag (EA200)							
G4_G109_002, G3_G100_003, G3_G106_004, G4_G116_005, G4_G133_006, G4_Track_007	**11-Aug-2016**	**----**	----	----	**22-Aug-2016**	07-Feb-2017	✓
Snap Lock Bag - Friable Asbestos/PSD Bag (EA200)							
W6_W13_013, W_Common Area_014, W5_W135_015, W5_W345_016, W5_W355_017, W4_W92_018, W8_W288_014, W8_Common Area_20, W10_W305_21, W10_W304_22, W15_W142_23, W15_W235_24, W10_W304_25, W16_W207_26, G3_G79_008, G3_G80_009, G5_G129_10, G5_G130_11, G5_G122_12, G3_G92_14, G5_G122_15	**12-Aug-2016**	**----**	----	----	**22-Aug-2016**	08-Feb-2017	✓
Snap Lock Bag - Friable Asbestos/PSD Bag (EA200)							
G4_Track_13, G4_Track_14	**12-Aug-2016**	**----**	----	----	**26-Aug-2016**	08-Feb-2017	✓
Snap Lock Bag - Friable Asbestos/PSD Bag (EA200)							
G1_G32_016, G1_G63_017, G2_G85_018, G2_G85_019, G2_G50_20, G2_G40_21, G2_G40_22, G2_G56_23, G4_G116_24, G4_G116_25, G2_G28_26	**18-Aug-2016**	**----**	----	----	**22-Aug-2016**	14-Feb-2017	✓

Quality Control Parameter Frequency Compliance

- **No Quality Control data available for this section.**

Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

Analytical Methods	Method	Matrix	Method Descriptions
Asbestos Identification in Bulk Solids	EA200	SOIL	In house: Referenced to AS 4964 - 2004 Method for the qualitative identification of asbestos in bulk samples Analysis by Polarised Light Microscopy including dispersion staining

SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order	: **EP1607629**		
Client	: **SENVERSA PTY LTD**	Laboratory	: Environmental Division Perth
Contact	: MS ASHTON BETTI	Contact	: Carol Walsh
Address	: LEVEL 25, 108 ST GEORGES TERRACE PERTH 6000	Address	: 10 Hod Way Malaga WA Australia 6090
E-mail	: Ashton.Betti@senversa.com.au	E-mail	: carol.walsh@alsglobal.com
Telephone	: +61 08 6557 8881	Telephone	: +61-3-8549 9608
Facsimile	: +61 03 9606 0074	Facsimile	: +61-8-9209 7600
Project	: P1193502 Wedge and Grey	Page	: 1 of 3
Order number	: ----	Quote number	: EP2016SENVER0002 (EP/828/16)
C-O-C number	: ----	QC Level	: NEPM 2013 B3 & ALS QC Standard
Site	: ----		
Sampler	: SARAH HORGAN		

Dates

Date Samples Received	: 19-Aug-2016 3:00 PM	Issue Date	: 19-Aug-2016
Client Requested Due Date	: 29-Aug-2016	Scheduled Reporting Date	: **29-Aug-2016**

Delivery Details

Mode of Delivery	: Client Drop Off	Security Seal	: Not intact.
No. of coolers/boxes	: 1	Temperature	: 22.9
Receipt Detail	:	No. of samples received / analysed	: 41 / 41

General Comments

- This report contains the following information:
  - Sample Container(s)/Preservation Non-Compliances
  - Summary of Sample(s) and Requested Analysis
  - Proactive Holding Time Report
  - Requested Deliverables
- Please see scanned COC for sample discrepencies: extra samples , samples not received etc.
- Please direct any queries related to sample condition / numbering / breakages to Sample Receipt (SamplesPerth@alsenviro.com)
- Analytical work for this work order will be conducted at ALS Environmental Perth.
- **Asbestos analysis will be conducted by ALS Environmental, Newcastle, NATA accreditation no. 825, Site No. 1656.**
- Please direct any turnaround / technical queries to the laboratory contact designated above.
- Sample Disposal - Aqueous (14 days), Solid (60 days) from date of completion of Work Order.
- **pH analysis should be conducted within 6 hours of sampling.**

Sample Container(s)/Preservation Non-Compliances

All comparisons are made against pretreatment/preservation AS, APHA, USEPA standards.

- **No sample container / preservation non-compliance exists.**

Summary of Sample(s) and Requested Analysis

Some items described below may be part of a laboratory process necessary for the execution of client requested tasks. Packages may contain additional analyses, such as the determination of moisture content and preparation tasks, that are included in the package.
If no sampling time is provided, the sampling time will default to 15:00 on the date of sampling. If no sampling date is provided, the sampling date will be assumed by the laboratory for processing purposes and will be shown bracketed without a time component.

Matrix: **SOIL**

Laboratory sample ID	*Client sampling date / time*	*Client sample ID*	SOIL - EA200B Asbestos Identification in Bulk Solids (Excluding
EP1607629-001	[12-Aug-2016]	W6_W13_013	✓
EP1607629-002	[12-Aug-2016]	W_Common Area_014	✓
EP1607629-003	[12-Aug-2016]	W5_W135_015	✓
EP1607629-004	[12-Aug-2016]	W5_W345_016	✓
EP1607629-005	[12-Aug-2016]	W5_W355_017	✓
EP1607629-006	[12-Aug-2016]	W4_W92_018	✓
EP1607629-007	[12-Aug-2016]	W8_W288_014	✓
EP1607629-008	[12-Aug-2016]	W8_Common Area_20	✓
EP1607629-009	[12-Aug-2016]	W10_W305_21	✓
EP1607629-010	[12-Aug-2016]	W10_W304_22	✓
EP1607629-011	[12-Aug-2016]	W15_W142_23	✓
EP1607629-012	[12-Aug-2016]	W15_W235_24	✓
EP1607629-013	[12-Aug-2016]	W10_W304_25	✓
EP1607629-014	[12-Aug-2016]	W16_W207_26	✓
EP1607629-015	[11-Aug-2016]	G4_G109_002	✓
EP1607629-016	[11-Aug-2016]	G3_G100_003	✓
EP1607629-017	[11-Aug-2016]	G3_G106_004	✓
EP1607629-018	[11-Aug-2016]	G4_G116_005	✓
EP1607629-019	[11-Aug-2016]	G4_G133_006	✓
EP1607629-020	[11-Aug-2016]	G4_Track_007	✓
EP1607629-021	[12-Aug-2016]	G3_G79_008	✓
EP1607629-022	[12-Aug-2016]	G3_G80_009	✓
EP1607629-023	[12-Aug-2016]	G5_G129_10	✓
EP1607629-024	[12-Aug-2016]	G5_G130_11	✓
EP1607629-025	[12-Aug-2016]	G5_G122_12	✓
EP1607629-026	[12-Aug-2016]	G3_G92_14	✓
EP1607629-027	[12-Aug-2016]	G5_G122_15	✓
EP1607629-028	[18-Aug-2016]	G1_G32_016	✓
EP1607629-029	[18-Aug-2016]	G1_G63_017	✓
EP1607629-030	[18-Aug-2016]	G2_G85_018	✓
EP1607629-031	[18-Aug-2016]	G2_G85_019	✓
EP1607629-032	[18-Aug-2016]	G2_G50_20	✓
EP1607629-033	[18-Aug-2016]	G2_G40_21	✓
EP1607629-034	[18-Aug-2016]	G2_G40_22	✓
EP1607629-035	[18-Aug-2016]	G2_G56_23	✓

			SOIL - EA200B Asbestos Identification in Bulk Solids (Excluding
EP1607629-036	[18-Aug-2016]	G4_G116_24	✓
EP1607629-037	[18-Aug-2016]	G4_G116_25	✓
EP1607629-038	[18-Aug-2016]	G2_G28_26	✓
EP1607629-039	[12-Aug-2016]	W4_Track-13	✓
EP1607629-040	[12-Aug-2016]	G4_Track_14	✓
EP1607629-041	[12-Aug-2016]	Unknown	✓

Proactive Holding Time Report

Sample(s) have been received within the recommended holding times for the requested analysis.

Requested Deliverables

ASHTON BETTI

- *AU Certificate of Analysis - NATA (COA)	Email	Ashton.Betti@senversa.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	Ashton.Betti@senversa.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	Ashton.Betti@senversa.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	Ashton.Betti@senversa.com.au
- A4 - AU Tax Invoice (INV)	Email	Ashton.Betti@senversa.com.au
- Chain of Custody (CoC) (COC)	Email	Ashton.Betti@senversa.com.au
- EDI Format - ENMRG (ENMRG)	Email	Ashton.Betti@senversa.com.au
- EDI Format - ESDAT (ESDAT)	Email	Ashton.Betti@senversa.com.au
- EDI Format - XTab (XTAB)	Email	Ashton.Betti@senversa.com.au

INVOICES INVOICES

- A4 - AU Tax Invoice (INV)	Email	accounts@senversa.com.au

SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order : **EP1607629**

Client	: **SENVERSA PTY LTD**	Laboratory	: Environmental Division Perth
Contact	: MS ASHTON BETTI	Contact	: Carol Walsh
Address	: LEVEL 25, 108 ST GEORGES TERRACE PERTH 6000	Address	: 10 Hod Way Malaga WA Australia 6090
E-mail	: Ashton.Betti@senversa.com.au	E-mail	: carol.walsh@alsglobal.com
Telephone	: +61 08 6557 8881	Telephone	: +61-3-8549 9608
Facsimile	: +61 03 9606 0074	Facsimile	: +61-8-9209 7600
Project	: P1193502 Wedge and Grey	Page	: 1 of 3
Order number	: ----	Quote number	: EP2016SENVER0002 (EP/828/16)
C-O-C number	: ----	QC Level	: NEPM 2013 B3 & ALS QC Standard
Site	: ----		
Sampler	: SARAH HORGAN		

Dates

Date Samples Received	: 19-Aug-2016 3:00 PM	Issue Date	: 24-Aug-2016
Client Requested Due Date	: 29-Aug-2016	Scheduled Reporting Date	: **29-Aug-2016**

Delivery Details

Mode of Delivery	: Client Drop Off	Security Seal	: Not intact.
No. of coolers/boxes	: 1	Temperature	: 22.9
Receipt Detail	:	No. of samples received / analysed	: 41 / 40

General Comments

- This report contains the following information:
  - Sample Container(s)/Preservation Non-Compliances
  - Summary of Sample(s) and Requested Analysis
  - Proactive Holding Time Report
  - Requested Deliverables
- Please see scanned COC for sample discrepencies: extra samples , samples not received etc.
- Please direct any queries related to sample condition / numbering / breakages to Sample Receipt (SamplesPerth@alsenviro.com)
- Analytical work for this work order will be conducted at ALS Environmental Perth.
- **Asbestos analysis will be conducted by ALS Environmental, Newcastle, NATA accreditation no. 825, Site No. 1656.**
- Please direct any turnaround / technical queries to the laboratory contact designated above.
- Sample Disposal - Aqueous (14 days), Solid (60 days) from date of completion of Work Order.
- **pH analysis should be conducted within 6 hours of sampling.**

Sample Container(s)/Preservation Non-Compliances

All comparisons are made against pretreatment/preservation AS, APHA, USEPA standards.

- **No sample container / preservation non-compliance exists.**

Summary of Sample(s) and Requested Analysis

Some items described below may be part of a laboratory process necessary for the execution of client requested tasks. Packages may contain additional analyses, such as the determination of moisture content and preparation tasks, that are included in the package.
If no sampling time is provided, the sampling time will default to 15:00 on the date of sampling. If no sampling date is provided, the sampling date will be assumed by the laboratory for processing purposes and will be shown bracketed without a time component.

Matrix: **SOIL**

Laboratory sample ID	Client sampling date / time	Client sample ID	(On Hold) SOIL No analysis requested	SOIL - EA200B Asbestos Identification in Bulk Solids (Excluding
EP1607629-001	[12-Aug-2016]	W6_W13_013		✓
EP1607629-002	[12-Aug-2016]	W_Common Area_014		✓
EP1607629-003	[12-Aug-2016]	W5_W135_015		✓
EP1607629-004	[12-Aug-2016]	W5_W345_016		✓
EP1607629-005	[12-Aug-2016]	W5_W355_017		✓
EP1607629-006	[12-Aug-2016]	W4_W92_018		✓
EP1607629-007	[12-Aug-2016]	W8_W288_014		✓
EP1607629-008	[12-Aug-2016]	W8_Common Area_20		✓
EP1607629-009	[12-Aug-2016]	W10_W305_21		✓
EP1607629-010	[12-Aug-2016]	W10_W304_22		✓
EP1607629-011	[12-Aug-2016]	W15_W142_23		✓
EP1607629-012	[12-Aug-2016]	W15_W235_24		✓
EP1607629-013	[12-Aug-2016]	W10_W304_25		✓
EP1607629-014	[12-Aug-2016]	W16_W207_26		✓
EP1607629-015	[11-Aug-2016]	G4_G109_002		✓
EP1607629-016	[11-Aug-2016]	G3_G100_003		✓
EP1607629-017	[11-Aug-2016]	G3_G106_004		✓
EP1607629-018	[11-Aug-2016]	G4_G116_005		✓
EP1607629-019	[11-Aug-2016]	G4_G133_006		✓
EP1607629-020	[11-Aug-2016]	G4_Track_007		✓
EP1607629-021	[12-Aug-2016]	G3_G79_008		✓
EP1607629-022	[12-Aug-2016]	G3_G80_009		✓
EP1607629-023	[12-Aug-2016]	G5_G129_10		✓
EP1607629-024	[12-Aug-2016]	G5_G130_11		✓
EP1607629-025	[12-Aug-2016]	G5_G122_12		✓
EP1607629-026	[12-Aug-2016]	G3_G92_14		✓
EP1607629-027	[12-Aug-2016]	G5_G122_15		✓
EP1607629-028	[18-Aug-2016]	G1_G32_016		✓
EP1607629-029	[18-Aug-2016]	G1_G63_017		✓
EP1607629-030	[18-Aug-2016]	G2_G85_018		✓
EP1607629-031	[18-Aug-2016]	G2_G85_019		✓
EP1607629-032	[18-Aug-2016]	G2_G50_20		✓
EP1607629-033	[18-Aug-2016]	G2_G40_21		✓
EP1607629-034	[18-Aug-2016]	G2_G40_22		✓
EP1607629-035	[18-Aug-2016]	G2_G56_23		✓

			(On Hold) SOIL No analysis requested	SOIL - EA200B Asbestos Identification in Bulk Solids (Excluding
EP1607629-036	[18-Aug-2016]	G4_G116_24		✓
EP1607629-037	[18-Aug-2016]	G4_G116_25		✓
EP1607629-038	[18-Aug-2016]	G2_G28_26		✓
EP1607629-039	[12-Aug-2016]	G4_Track_13		✓
EP1607629-040	[12-Aug-2016]	G4_Track_14		✓
EP1607629-041	[12-Aug-2016]	Unknown	✓	

Proactive Holding Time Report

Sample(s) have been received within the recommended holding times for the requested analysis.

Requested Deliverables

ASHTON BETTI

- *AU Certificate of Analysis - NATA (COA) — Email — Ashton.Betti@senversa.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI) — Email — Ashton.Betti@senversa.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC) — Email — Ashton.Betti@senversa.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN) — Email — Ashton.Betti@senversa.com.au
- A4 - AU Tax Invoice (INV) — Email — Ashton.Betti@senversa.com.au
- Chain of Custody (CoC) (COC) — Email — Ashton.Betti@senversa.com.au
- EDI Format - ENMRG (ENMRG) — Email — Ashton.Betti@senversa.com.au
- EDI Format - ESDAT (ESDAT) — Email — Ashton.Betti@senversa.com.au
- EDI Format - XTab (XTAB) — Email — Ashton.Betti@senversa.com.au

INVOICES INVOICES

- A4 - AU Tax Invoice (INV) — Email — accounts@senversa.com.au

SARAH HORGAN

- *AU Certificate of Analysis - NATA (COA) — Email — Sarah.Horgan@senversa.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI) — Email — Sarah.Horgan@senversa.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC) — Email — Sarah.Horgan@senversa.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN) — Email — Sarah.Horgan@senversa.com.au
- Chain of Custody (CoC) (COC) — Email — Sarah.Horgan@senversa.com.au
- EDI Format - ENMRG (ENMRG) — Email — Sarah.Horgan@senversa.com.au
- EDI Format - ESDAT (ESDAT) — Email — Sarah.Horgan@senversa.com.au
- EDI Format - XTab (XTAB) — Email — Sarah.Horgan@senversa.com.au

Chain of Custody Documentation

senversa

Senversa Pty Ltd
Level 25, 108 St Georges Terrace
Perth WA 6000
Ph: 08 6557 8882 Fax: 03 9606 0074

Laboratory: ALS
Address: 10 Hod Way, Malga
Contact: Adrienne Sanders
Phone: 08 9209 7632

Job Number:	P1193502	**Purchase Order:**	
Project Name:	Wedge and Grey	**Quote No:**	ALS: EP/828/16
Sampled By:	Sarah Horgan	**Turn Around Time:**	Standard
Project Manager:	Ashton Betti	**Page:**	1 of 3
Email Report To:	ashton.betti@senversa.com.au	**Phone/Mobile:**	0421 473 219

Sample Information					Container Information		Analysis Required											Comments: e.g. Highly contaminated sample; hazardous materials present; trace LORs etc.
Lab ID	Sample ID	Matrix *	Date	Time	Type / Code	Total Bottles	HOLD	Asbestos Quantification per NEPM 2013	Asbestos Presence/Absence - Bulk Solid									
1	W6_W13_013	Bulk	12/08/2016		bag	1			X									
2	W6_Common Area_014	Bulk	12/08/2016		bag	1			X									
3	W5_W135_015	Bulk	12/08/2016		bag	1			X									
4	W5_W345_016	Bulk	12/08/2016		bag	1			X									
5	W5_W355_017	Bulk	12/08/2016		bag	1			X									
6	W4_W92_018	Bulk	12/08/2016		bag	1			X									
7	W8_W288_014	Bulk	12/08/2016		bag	1			X									
8	W8_Common Area__20	Bulk	12/08/2016		bag	1			X									
9	W10_W305_21	Bulk	12/08/2016		bag	1			X									
10	W10_W304_22	Bulk	12/08/2016		bag	1			X									
11	W15_W142_23	Bulk	12/08/2016		bag	1			X									
12	W15_W235_24	Bulk	12/08/2016		bag	1			X									
13	W10_W304_25	Bulk	12/08/2016		bag	1			X									
14	W16_W207_26	Bulk	12/08/2016		bag	1			X									

Environmental Division
Perth
Work Order Reference
EP1607629

Telephone : + 61-8-9209 7655

Sampler: I attest that proper field sampling procedures in accordance with Senversa standard procedures and/or project specifications were used during the collection of these samples: | **Sampler Name:** Sarah Horgan | **Signature:** | **Date:** 19/8/16

Relinquished By:		Method of Shipment (if applicable):	Received by:	
Name/Signature:	Date: 19/8/16	Carrier / Reference #:	Name/Signature: AM AJO	Date: 19-8-16
Of: Senversa	Time:	Date/Time:	Of:	Time: 3 pm
Name/Signature:	Date:	Carrier / Reference #:	Name/Signature:	Date:
Of:	Time:	Date/Time:	Of:	Time:
Name/Signature:	Date:	Carrier / Reference #:	Name/Signature:	Date:
Of:	Time:	Date/Time:	Of:	Time:

Water Container Codes: P = Unpreserved Plastic; N = Nitric Acid (HNO_3) Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide (NaOH)/Cadmium (Cd) Preserved; S = Sodium Hydroxide Preserved Plastic; STH = Sodium thiosulfate preserved plastic; V = VOA Vial Hydochloric Acid (HCl) Preserved; VS = VOA Vial Sulphuric Preserved; VSA = Sulphuric Preserved Amber Glass; H = HCl Preserved Plastic; HS = HCl Preserved Speciation Bottle; SP = Sulphuric Preserved Plastic; F = Formaldehyde Preserved Glass; Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; UA = Unpreserved Amber Glass; L=Lugol's iodine preserved white plastic bottle; SW= sulfuric acid preserved wide mouth glass jar

Completed by: _____
Checked by: _____

Chain of Custody Documentation

Senversa Pty Ltd
Level 25, 108 St Georges Terrace
Perth WA 6000
Ph: 08 6557 8882 Fax: 03 9606 0074

Laboratory: ALS
Address: 10 Hod Way, Malga
Contact: Adrienne Sanders
Phone: 08 9209 7632

Job Number:	P1193502	**Purchase Order:**	
Project Name:	Wedge and Grey	**Quote No:**	ALS: EP/828/16
Sampled By:	Sarah Horgan	**Turn Around Time:**	Standard
Project Manager:	Ashton Betti	**Page:**	2 of 3
Email Report To:	ashton.betti@senversa.com.au	**Phone/Mobile:**	0421 473 219

Sample Information					Container Information		Analysis Required											
Lab ID	Sample ID	Matrix *	Date	Time	Type / Code	Total Bottles	HOLD	Asbestos Quantification per NEPM 2013	Asbestos Presence/Absence - Bulk Solids									Comments: e.g. Highly contaminated sample; hazardous materials present; trace LORs etc.
15	G4_G109_002	bulk	11/08/2016		bag	1			X									
16	G3_G100_003	bulk	11/08/2016		bag	1			X									
17	G3_G106_004	bulk	11/08/2016		bag	1			X									
18	G4_G116_005	bulk	11/08/2016		bag	1			X									
19	G4_G133_006	bulk	11/08/2016		bag	1			X									
20	G4_Track_007	bulk	11/08/2016		bag	1			X									
21	G3_G79_008	bulk	12/08/2016		bag	1			X									
22	G3_G80_009	bulk	12/08/2016		bag	1			X									
23	G5_G129_10	bulk	12/08/2016		bag	1			X									
24	G5_G130_11	bulk	12/08/2016		bag	1			X									
25	G5_G122_12	bulk	12/08/2016		bag	1			X									
SNR	G4_Track_13	bulk	12/08/2016		bag	1			X									
26	G3_G92_14	bulk	12/08/2016		bag	1			X									
27	G5_G122_15	bulk	12/08/2016		bag	1			X									

Sampler: I attest that proper field sampling procedures in accordance with Senversa standard procedures and/or project specifications were used during the collection of these samples: | **Sampler Name:** Sarah Horgan | **Signature:** | **Date:** 19/8/16

Relinquished By:		**Method of Shipment (if applicable):**	**Received by:**	
Name/Signature: Sarah Horgan	Date: 19/8/16	Carrier / Reference #:	Name/Signature:	Date:
Of: Senversa	Time:	Date/Time:	Of:	Time:
Name/Signature:	Date:	Carrier / Reference #:	Name/Signature:	Date:
Of:	Time:	Date/Time:	Of:	Time:
Name/Signature:	Date:	Carrier / Reference #:	Name/Signature:	Date:
Of:	Time:	Date/Time:	Of:	Time:

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Sample Information					Container Information		Analysis Required											
Lab ID	Sample ID	Matrix *	Date	Time	Type / Code	Total Bottles	HOLD	Asbestos Quantification per NEPM 2013	Asbestos Presence/Absence - Bulk Solids									Comments: e.g. Highly contaminated sample; hazardous materials present; trace LORs etc.
28	G1_G32_016	bulk	18/8/16		bag	1			X									
29	G1_G63_017				bag	1			X									
30	G2_G85_018				bag	1			X									
31	G2_G85_019				bag	1			X									
32	G2_G50_20				bag	1			X									
33	G2_G40_21				bag	1			X									
34	G2_G40_22				bag	1			X									
35	G2_G56_23				bag	1			X									
36	G4_G116_24				bag	1			X									
37	G4_G116_25				bag	1			X									
38	G2_G28_26	↓	↓		bag	1			X									
					bag	1												
39	W4_Track_13				bag	1												
40	G4_Track_14				bag	1												
41																		

Sampler: I attest that proper field sampling procedures in accordance with Senversa standard procedures and/or project specifications were used during the collection of these samples: | **Sampler Name:** Sarah Horgan | **Signature:** | **Date:** 19/8/16

Relinquished By:		**Method of Shipment (if applicable):**	**Received by:**	
Name/Signature: Sarah Horgan	Date: 19/8/16	Carrier / Reference #:	Name/Signature:	Date:
Of: Senversa	Time:	Date/Time:	Of:	Time:
Name/Signature:	Date:	Carrier / Reference #:	Name/Signature:	Date:
Of:	Time:	Date/Time:	Of:	Time:
Name/Signature:	Date:	Carrier / Reference #:	Name/Signature:	Date:
Of:	Time:	Date/Time:	Of:	Time:

Water Container Codes: P = Unpreserved Plastic; N = Nitric Acid (HNO_3) Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide (NaOH)/Cadmium (Cd) Preserved; S = Sodium Hydroxide Preserved Plastic; STH = Sodium thiosulfate preserved plastic; V = VOA Vial Hydochloric Acid (HCl) Preserved; VS = VOA Vial Sulphuric Preserved; VSA = Sulphuric Preserved Amber Glass; H = HCl Preserved Plastic; HS = HCl Preserved Speciation Bottle; SP = Sulphuric Preserved Plastic; F = Formaldehyde Preserved Glass; Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; UA = Unpreserved Amber Glass; L=Lugol's iodine preserved white plastic bottle; SW= sulfuric acid preserved wide mouth glass jar

Completed by: _____
Checked by: _____

senversa

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fax: + 61 3 9606 0074

enquiries@senversa.com.au

www.senversa.com.au

Level 17, 140 St Georges Terrace, Perth, WA 6000

Senversa Pty Ltd ABN 89 132 231 380