



MCPI

Mid Coast Property Inspections

Pest Report



64 Sample Street
Samletown

Report Prepared: 16 February 2017

Mid Coast Property Inspections
43 Dawson Cr
Gloucester 2422

e – mcpinspect@mail.com
ph. - 0425225501
www.mcpinspect.com

Visual Timber Pest Report

In accordance with Australian Standard 4349.3

Account to: 64 Sample Street, Sampletown
Client: Jack Sample
Invoice No: 1111

Re: Structure at: 64 Sample Street, Sampletown

Inspection Date: 16 February 2017
Report Prepared Date: 16 February 2017

The purpose of the inspection: is to give advice about the condition of the property with regard to timber pests.

Agreement Number: 1111
Date of Agreement: 16 February 2017

Specific Requirements/Conditions Required by YOU were:

- Move obstructions where possible (within reason), Use thermal Imaging if and where visual inspection indicates that there may be a need to further test the area.

Weather Conditions at the time of the inspection: Dry

Contact the Inspector: Should you have any difficulty in understanding anything contained within this report then you should immediately contact the inspector and have the matter explained to you prior to acting on this report.

Inspectors contact phone number: Ph. - 0425 225 501

Summary Only

IMPORTANT DISCLAIMER

- This Summary is supplied to allow a quick and superficial overview of the inspection results
- This Summary is NOT the Report and cannot be relied upon on its own
- This Summary must be read in conjunction with the full report and not in isolation from the report
- If there should happen to be any discrepancy between anything in the Report and anything in this Summary, the information in the Report shall override that in this Summary
- The Report is subject to conditions and limitations. Your attention is particularly drawn to the Clauses and Disclaimer of Liability to Third Parties.

ACCESS

Are there any Area(s) and/or Section(s) to which Access should be gained?

- Yes, read this report in its entirety

TIMBER PEST ACTIVITY

Were active subterranean termites (live specimens) found?

- Yes, read this report in its entirety

Was visible evidence of subterranean termite workings or damage found?

- Yes, read this report in its entirety

Was visible evidence of borers of seasoned timbers found?

- Yes, read this report in its entirety

Was evidence of damage caused by wood decay (rot) fungi found?

- Yes, read this report in its entirety

Are further inspections recommended?

- Yes, read the report in full

Were any major safety hazards identified?

- No, read the report in full

In our opinion, the susceptibility of this property to timber pests is considered to be:

- Extremely High. Read the report in full.

For complete and accurate information you must refer to the following complete Visual Timber Pest Report.

Important: We strongly recommend the purchaser make inquiry from the vendor about Timber Pests and in particular Termites for this property.

VISUAL TIMBER PEST REPORT

1. Brief Description of Structure(s) Inspected

1.1 Building Type

- Free standing domestic house

Flooring

- Tile, carpet and timber floor coverings

Piers

- Brick

Walls

- Timber framed, weather-board construction

Roof

- Metal deck roofing

Garage

- Timber framed, timber clad

Outbuilding(s)

- Garage
- Carport

Fences

- Hardwood palings

Any building or part of a building that is constructed on a concrete slab is always more susceptible to termite attack because of possible concealed termite entry.

1.2 Areas Inspected

Only structures, fences &/or trees within 30m of the building but within the property boundaries were inspected.

The Actual Areas Inspected Were

- Interior, exterior, sub floor, roof void, roof exterior, the site

Areas NOT Inspected

No inspection was made, and no report is submitted, of inaccessible areas. These include, but may not be limited to, cavity walls, concealed frame timbers, eaves, flat roofs, fully enclosed patios subfloors, soil concealed by concrete floors, fireplace hearths, wall linings, landscaping, rubbish, floor coverings, furniture, pictures, appliances, stored items, insulation, hollow blocks/posts, etc.

1.3 Other Area(s)* to which REASONABLE ACCESS for Inspection was NOT AVAILABLE and the Reason(s) why include:

Areas NOT inspected including reason(s) were:

- None

Please note since a complete inspection of the above areas was not possible, timber pest activity and/or damage may exist in these areas.

1.4 Area(s) in which Visual Inspection was Obstructed or Restricted and the Reason(s) why include:

- Interior - our visual inspection of the interior was significantly limited by furniture, floor coverings, personal belongings, stored goods and window treatments
- The building exterior was restricted by - heavy foliage and attachments to the building
- The roof void was restricted by - insulation and low clearances over the external top plates
- The fences were restricted by - heavy foliage
- The garage - stored items restricted the inspection of the interior, foliage and stored items restricted the inspection of the exterior

Please note since a complete inspection of the above areas was not possible, timber pest activity and/or damage may exist in these areas.

1.5 High Risk Area(s) to which Access should be gained, or fully gained, since they may show evidence of Timber Pests or damage:

- The building interior
- The building exterior
- The roof void
- The fences
- The garage

1.6 The following further inspections are recommended for the areas described above:

- Visual

Furnished properties: Where a property is furnished at the time of inspection the furnishings and stored goods may be concealing evidence of Timber Pest Activity. This evidence may only be revealed when the property is vacated. A further inspection of the vacant property is strongly recommended in this case.

1.7 Was the property furnished at the time of inspection?

- Yes, the premises was furnished. Our visual inspection of the interior was limited by furniture, floor coverings, personal belongings, stored goods and window treatments

NOTE: Important Limitations for Safe and Reasonable Access

Only areas where reasonable access was available were inspected. AS 4349.3 defines reasonable access and states that access will not be available where there are safety concerns, or obstructions, or the space available is less than the following:

ROOF VOID – the dimensions of the access hole must be at least 500mm x 400mm, and, reachable by a 3.6M ladder, and, there is at least 600mm x 600mm of space to crawl;

ROOF EXTERIOR – must be accessible by a 3.6M ladder placed safely on the ground.

SUBFLOOR - Access is normally not available where dimensions are less than 500mm x 400mm for the access hole and less than 400mm of crawl space beneath the lowest bearer, or, less than 500mm beneath the lowest part of any concrete floor;

The inspector shall determine whether sufficient space is available to allow safe access to confined areas.

Reasonable access does not include the use of destructive or invasive inspection methods. Nor does reasonable access include cutting or making access traps, or moving heavy furniture or stored goods.

2. SUBTERRANEAN TERMITES

2.1 Were active termites (live insects) present at the time of the inspection and if “yes”, then the termites are believed to be:

- Yes, *Nasutitermes* Spp, the termites have the ability to cause moderate to extensive damage to structural timbers



Active termites were present in the timber fences at the NW side of the property

2.2 There were no termite nests located during the inspection.

2.3 Visible evidence of subterranean termite workings and/or damage was found at the time of inspection. Where workings and/or damage was found it was in, but not necessarily limited to the following area(s)

- Timber fence posts, rails and palings

NOTE: *Where evidence of termite activity was found in the grounds then the risk to buildings is very high. A treatment to eradicate the termites and to protect the building(s) should be carried out. Where the evidence of termite workings was found in the grounds or the building(s) then the risk of a further attack is very high.*

If any evidence or damage has been reported then you must have a building expert determine the full extent of damage and the estimated costs of repairs or timber replacement (see Terms & Limitations).

2.4 Where activity or damage is reported above, does it present a major safety hazard?

- No

IMPORTANT NOTE: *Where a Major Safety Hazard is identified above, it must be attended to and rectified to avoid the possibility of personal injury and/or death.*

VERY IMPORTANT:

If live termites or any evidence of termite workings or damage was reported above within the building(s) or in the ground and fences then it must be assumed that there may be concealed termite activity and/or timber damage. This concealed activity or damage may only be found when alterations are carried out such as when wall linings, cladding or insulation are removed or if you arrange for an invasive inspection. We claim no expertise in structural engineering or building. We strongly recommend that you have a qualified person such as a Builder, Engineer, Architect or other qualified expert in the building trade determine the full extent of the damage, if any. This may require an invasive inspection. We take no responsibility for the repair of any damage whether disclosed by this report or not. (See Terms & Limitations).

Where visual evidence of termite workings and/or damage is reported above, but no live termites were present at the time of inspection, you must realise that it is possible that termites are still active in the immediate vicinity and the termites may continue to cause further damage. It is not possible, without benefit of further investigation and a number of inspections over a period of time, to ascertain whether any infestation is active or inactive. Active termites may simply have not been present at the time of inspection due to a prior disturbance, climatic conditions, or they may have been utilising an alternative feeding source. Continued, regular, inspections are essential. Unless written evidence of a termite protection program in accord with "Australian Standard 3660" with ongoing inspections is provided, you must arrange for a treatment in accord with "Australian Standard 3660" to be carried out immediately to reduce the risk of further attack.

General remarks: A more thorough INVASIVE INSPECTION is available. Where any current visible evidence of Timber Pest activity is found it is strongly recommended that a more invasive inspection is performed. Trees on the property have been visually inspected for evidence of termite activity to a height of 2m where access was possible and practical. It is very difficult, and generally impossible to locate termite nests since they are underground and evidence in trees is usually well concealed. We therefore strongly recommend that you arrange to have trees test drilled for evidence of termite nests.

2.5 There were no signs or evidence of a previous termite treatment on the property.

WARNING: *If evidence of drill holes in concrete or brickwork or other signs of a possible previous treatment are reported then the treatment was probably carried out because of an active termite attack. Extensive structural damage may exist in concealed areas. You should have an invasive inspection carried out and have a builder determine the full extent of any damage and the estimated cost of repairs as the damage may only be found when wall linings etc. are removed.*

Normally if a termite treatment has been carried out then a durable notice should be located in the meter box indicating the type of termite shield system, treated zone or combination has been installed.

2.6 Durable Notice (Termite Management Notice)

- No durable notice was found during the inspection

This firm can give no assurances with regard to work that may have been previously performed by other firms. You should obtain copies of all paperwork and make your own inquiries as to the quality of the treatment, when it was carried out and warranty information. In most cases you should arrange for a treatment in accord with "Australian Standard 3660" be carried out to reduce the risk of further attack.

3. BORERS OF SEASONED TIMBER

***Lyctus brunneus* (powder post beetle)** is not considered a significant pest of timber. Damage is confined to the sapwood so treatment or timber replacement is not usually required. However, you should have a building expert investigate if any timber replacement is required.

***Anobium punctatum* (furniture beetle) and *Calymnaderus incisus* (Queensland pine beetle)** must always be considered active, unless proof of treatment is provided, because, unless the timber is ground up, one cannot determine conclusively if activity has ceased. Total timber replacement of all susceptible timbers is recommended. A secondary choice is treatment. However, the evidence and damage will remain and the treatment may need to be carried out each year for up to three years.

3.1 Was visible evidence of borers found?

- Yes, Species: *Lyctus brunneus* - commonly known as the Powderpost Beetle
- Evidence of borer damage or activity was present to a floor joist under the hallway

If any evidence or damage has been reported then you must have a building expert determine the full extent of damage and the estimated cost of repairs or timber replacement (See Terms & Limitations).

Borer activity is usually determined by the presence of exit holes and/or frass. Since a delay exists between the time of initial infestation and the appearance of these signs, it is possible that some borer activity may exist that is not discernible at the time of inspection.

3.2 Where activity or damage is reported above, does its presence represent a major safety hazard?

- No

IMPORTANT NOTE: *Where a Major Safety Hazard is identified above, it must be attended to and rectified to avoid the possibility of personal injury and/or death.*

3.3 Borer recommendations: Replacement of all susceptible timbers is always preferred since, in the event of selling the property in the future it is probable that an inspector will report the borers as active (see above). A chemical treatment to control and/or protect against Furniture beetle and/or Queensland pine beetle can be considered as a less effective, lower cost option. Before considering this option you should consult with a builder (See Terms & Limitations) to determine if the timbers are structurally sound. Following the initial treatment a further inspection is essential in twelve months' time to determine if further treatment is needed. Treatments over a number of consecutive years may be required.

4. FUNGAL DECAY CAUSED BY WOOD DECAY FUNGI

4.1 Was evidence of wood decay fungi (wood rot) found? Yes

- Weather boards of the house and the garage
- Timber corner battens of the house
- Garage doors
- Garage fascia's
- Barge boards at the western corner of the house
- Verandah decking
- Studs at the western corner of the shower recess
- Timber fence posts, rails and palings
- Bottom plates of the garage wall frames, western corner of the garage
- Kitchen window reveals
- Pergola rafter at the western side of the kitchen



Moderate wood decay damage present to a pergola rafter at the western side of the kitchen



Wood decay damage to the kitchen window reveals



Moderate wood decay damage to the corner cladding battens – southern corner of the kitchen pictured



Extensive wood decay damage present to bottom wall plates at the southern and western sides of the garage



Moderate wood decay damage to the verandah decking



Moderate wood decay damage to the barge boards at the western corner of the house



Moderate wood decay damage present to the ends of the cladding at the western corner of the bathroom

4.2 Where activity or damage is reported above, does its presence represent a major safety hazard?

- No

IMPORTANT NOTE: *Where a Major Safety Hazard is identified above, it must be attended to and rectified to avoid the possibility of personal injury and/or death.*

If any evidence of fungal decay or damage is reported then you should consult a building expert determine the full extent of damage and the estimated cost of repairs or timber replacement (See Terms & Limitations).

5. CONDITIONS THAT ARE CONDUCTIVE TO TIMBER PESTS

WATER LEAKS

Water leaks, especially in or into the subfloor or against the external walls e.g. leaking taps, water tanks or down pipes and or guttering, increases the likelihood of termite attack. Leaking showers or leaks from other 'wet areas' also increase the likelihood of concealed termite attack. These conditions are also conducive to borer activity and wood decay.

5.1 At the time of inspection:

- Water leakage was detected in the following location(s) -
- Downpipe joins
- Exterior taps dripping
- Carport roof (wood decay noted under screw fixing at the western corner of the kitchen)
- Moisture present at the base of the shower recess
- Moisture present around the toilet pan / sewer connection
- The kitchen sink waste is leaking into the kitchen cabinet



Moisture present at the base of the shower recess indicative of current leakage



Moisture present at the base of the toilet pan indicative of current leakage



Moisture present in the kitchen sink cabinet indicative of current leakage



The NW exterior tap was dripping at the time of the inspection

If any leaks were reported then you must have a plumber or other building expert determine the full extent of damage and the estimated cost of repairs.

HOT WATER SERVICES & AIRCONDITIONING UNITS

Hot water services and air conditioning units which release water alongside or near to building walls need to be connected to a drain (if this is not possible then their water outlet needs to be piped several meters away from the building) as the resulting wet area is highly conducive to termites.

5.2 Is there a need for this work to be carried out?

- No

WATER TANKS

Are required to be installed in new homes in some states and many homes have had them retroactively installed as a conservation measure. Tanks which release water alongside or near to building walls need to be connected to a drain. If this is not possible then their water outlet needs to be piped several metres away from the building, as the resulting wet area is highly conducive to termites.

5.3 Is there a need for this work to be carried out?

- No tank was found

HIGH MOISTURE READINGS

Can be caused by any one of the following: poor ventilation, ineffective drainage, leaking pipes, leaking roofs, defective flashing or by concealed termite activity. The areas of high moisture should be investigated by way of an invasive inspection. High moisture levels also increase the likelihood of termite attack and may also be conducive to borer activity and wood decay.

5.4 At the time of inspection:

- Moisture readings were normal

5.5 Moisture was tested using a:

- Tramex Encounter Plus moisture meter

If high moisture was reported then you must have a building expert investigate the moisture and its cause and determine the full extent of damage and the estimated cost of repairs.

DRAINAGE

Poor drainage, especially in the subfloor, greatly increases the likelihood of wood decay and termite attack.

5.6 We claim no expertise in plumbing and drainage, however it appears that drainage is generally:

- Adequate

Where drainage is considered inadequate a plumber, builder or other building expert must be consulted.

VENTILATION

Particularly to the sub-floor region is important in minimising the opportunity for Timber Pests to establish themselves within a property.

5.7 In our opinion the ventilation appears to be generally:

- Adequate

Where ventilation is considered inadequate a builder or other expert should be consulted, in the case where vent airflow is physically blocked or restricted, the obstruction must be removed.

MOULD

On walls and ceilings etc. is an indicator of high moisture or very poor ventilation. If reported you need to have the reason investigated by a builder or an Industry Hygienist as its presence may indicate the presence of a water leak, wood decay or termites behind the wall or ceiling sheeting.

5.8 Evidence of mould was found during the inspection and is located -

- Bathroom and bedroom ceilings/walls

TIMBERS EXPOSED TO WEATHER AND/OR WATER

Some species of timber may be used in areas for which they are not suitable. Where this occurs, the timber may be damaged by Timber Pests, in particular termites and wood decay. In most cases, these timbers may be protected with normal maintenance, e.g. regular painting. However in some cases, you should consider replacing the timbers with a more suitable species or material.

5.9 The fitness for purpose of the visible structural timber exposed to weather and/or water appears to be:

- Adequate for the situation they have been used in

It is strongly recommended that you consult a Builder, Architect or other specialist in the field to inspect exposed timbers to give expert advice on their durability and suitability for the situation in which they are used.

5.10 Other areas and/or situations that appear conducive to (may attract) subterranean termite infestation:

- Stored timbers in contact with the ground located in the subfloor - remove
- Non-durable landscaping timbers in contact with the ground - remove or replace with treated timber
- Remove dead tree stumps around the property, they are highly conducive to termite activity
- Timber formwork at the NE side of the extension slab should be removed - they are highly conducive to termite activity

Refer to Important Maintenance Advice below regarding what a property owner can do to help reduce risk of Timber Pest attack.

6. Conditions Conducive to Undetected Termite Entry

SLAB EDGE EXPOSURE

Where external concrete slab edges are not exposed there is a high risk of concealed termite entry. In some buildings built since July 1995 the edge of the slab forms part of the termite shield system. In these buildings an inspection zone of at least 75mm should be maintained to permit detection of termite entry. The concrete edge should not be concealed by render, tiles, cladding, flashings, adjoining structures, paving, soil, turf or landscaping etc. Where this is the case you should arrange to have the slab edge exposed for inspection. Concealed termite entry may already be taking place but could not be detected at the time of the inspection. This may have resulted in concealed timber damage.

6.1 Does the slab edge inspection zone fully comply?

- No, we recommend that you arrange for the slab edge to be exposed (edge of concrete slab to be exposed by 75mm at all times)

Note: *A very high proportion of termite attacks are over the edge of both Infill and other concrete slabs types. Covering the edge of a concrete slab makes concealed termite entry easy. Infill slab type construction has an even higher risk of concealed termite ingress as the slab edge is concealed due to the construction design and cannot be exposed. The type of slab may only be determined by assessment of the construction plans by a qualified person e.g. Builder, Architect. Construction Plans may be obtainable by your conveyancer. Termite activity and or damage may be present in concealed timbers of the building. We strongly recommend frequent regular inspections in accordance with AS 3660.2. Where the slab edge is not fully exposed or the slab is an infill slab or the slab type cannot be determined then we strongly recommend inspections every 3 to 6 months in accordance with AS 3660.2. Infill slab: A slab on the ground cast between walls. Other slabs should be in accordance with AS 2870 - 1996 and AS 3660.1-2000.*

WEEP HOLES IN EXTERNAL WALLS

It is very important that soil, lawn, concrete paths or pavers do not cover the weep holes. Sometimes they have been covered during the rendering of the brick work. They should be clean and free flowing. Covering the weep holes in part or in whole may allow undetected termite entry.

6.2 Were the weep holes clear allowing the free flow of air?

- Not applicable

TERMITE SHIELDS (ANT CAPS)

Termite Shields (Ant Caps) should be in good order and condition so termite workings are exposed and visible. This helps stop termites gaining undetected entry. Joins in the shielding should have been soldered during the installation. Whenever it is observed that the joins in the shielding have not been soldered then the shielding must be reported as inadequate. It may be possible for a builder to repair the shielding. If not, a chemical treated zone may need to be installed to deter termites from gaining concealed access to the building. Missing, damaged or poor shields increase the risk of termite infestation.

6.3 In our opinion the termite shields appear to be:

- Inadequate
- Termite shields are missing from some foundation walls

If considered inadequate a builder or other building expert should be consulted. Other physical shield systems are not visible to inspection and no comment is made on such systems.

6.4 Other areas and/or situations that may allow undetected subterranean termite entry:

- Some of the wall cladding sits too close to ground level or is in contact with the soil, leaving these areas vulnerable to premature decay and termite attack. Cladding should ideally have 75 millimetres of ground clearance to help prevent decay and potential concealed termite entry. Consideration should be given to options such as upgrading termite barrier protection, removing soil and trimming of the boards etc.
- Heavy foliage against the building - trim back to allow a visual inspection of the exterior of the building
- Structures such as steps, veranda's, decks or attachments such as downpipes, fences, service conduits (e.g. telephone cables) present an opportunity for concealed entry of termites. These attachments should be separated where possible from the building by a clear gap of at least 25mm. Where separation is not possible, regular inspection of these areas should be undertaken to ascertain whether the building is under attack from termites
- Timber privacy screen supports extending from ground to underside of house floor framing should be removed as this creates a concealed entry point for termites



Soil resting against the weather boards at the SE side of the house

7. Other Information

Refer to important Maintenance Advice regarding what a property owner can do to help reduce risk of Timber Pest attack.

Details (if applicable) of non-destructive electronic equipment (other than a Moisture Meter) used at the discretion of the inspector during the inspection:

- Flir E60bx thermal imaging camera

8. OVERALL ASSESMENT OF THE PROPERTY

Where the evidence of live termites or termite damage or termite workings (mudding) was found in the building(s) then the risk of a further attack is extremely high. Where evidence of live termites or termite damage or termite workings was found in the grounds but not in the buildings then the risk to buildings must be reported as high to extremely high.

8.1 At the time of the inspection the DEGREE OF RISK OF SUBTERRANEAN TERMITE INFESTATION to the overall property was considered:

- Extremely high

8.2 Subterranean termite treatment recommendation

A management program in accord with AS 3660-2000 to protect against subterranean termites is considered to be: Essential

- We have determined that a termite treatment in accord with AS 3660 is necessary. Appropriately qualified pest firms should be contacted to give treatment options

Future Inspections

AS 3660.2-2000 recommends that inspections be carried out at intervals no greater than annually and where timber pest "pressure" is greater, this interval should be shortened. Inspections WILL NOT stop timber pest infestations; however, the damage which may be caused will be reduced when the infestation is found at an early stage.

8.3 Due to the degree of risk of subterranean termite infestation noted above and all other findings of this report, we strongly recommend that a full inspection and written report in accord with AS 4349.3 or AS 3660.2-2000 is conducted at this property every:

- 6 months

A More Invasive Physical Inspection Is Available and Recommended

As detailed above, there are many limitations to this visual inspection only. With the permission of the owner of the premises we WILL perform a more invasive physical inspection that involves moving or lifting: insulation, stored items, furniture or foliage during the inspection. We WILL physically touch, tap, test and when necessary force/gouge suspected accessible timbers. We WILL gain access to areas, where physically possible and considered practical and necessary, by way of cutting traps and access holes. This style of report is available by ordering with several days' notice. Inspection time for this style of report will be greater than for a VISUAL INSPECTION. It involves disruption in the case of an occupied property, and some permanent marking is likely. You must arrange for the written permission of the owner who must acknowledge all the above information and confirm that our firm will not be held liable for any damage caused to the property. A price is available on request.

CONTACT THE INSPECTOR

Please feel free to contact the inspector who carried out this inspection. Often it is very difficult to fully explain situations, problems, access difficulties or timber Pest activity and/or damage in a manner that is readily understandable by the reader. Should you have any difficulty in understanding anything contained within this report then you should immediately contact the inspector and have the matter explained to you. If you have any questions at all or require any clarification then contact the inspector prior to acting on this report.

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|---|---------------------------------------|
| The Inspection was carried out by: | Thomas Haschek |
| Inspectors contact phone number: | 0425 225 501 |
| State Licence No: | PMT 15-101644-001 |
| Insurance Accreditation Number: | 6236 |
| Name of Inspection Firm: | Mid Coast Property Inspections |
| Dated: 16 February 2017 | |

SIGNED FOR AND ON BEHALF OF:

Mid Coast Property Inspections



IMPORTANT MAINTENANCE ADVICE REGARDING INTEGRATED PEST MANAGEMENT (IPM) FOR PROTECTING AGAINST TIMBER PESTS: Any structure can be attacked by Timber Pests.

Periodic maintenance should include measures to minimise possibilities of infestation in and around a property. Factors which may lead to infestation from Timber Pests include situations where the edge of the concrete slab is covered by soil or garden debris, filled areas, areas with less than 400mm clearance, foam insulation at foundations, earth/wood contact, damp areas, leaking pipes, etc.; form-work timbers, scrap timber, tree stumps, mulch, tree branches touching the structure, wood rot, etc. Gardens, pathways or turf abutting or concealing the edge of a concrete slab will allow for concealed entry by timber pests. Any timber in contact with soil such as form-work, scrap timbers or stumps must be removed from under and around the buildings and any leaks repaired. You should endeavour to ensure such conditions DO NOT occur around your property.

We further advise that you engage a professional pest control firm to provide a suitable termite management program in accord with AS 3660 to minimise the risk of termite attack. There is no way of preventing termite attack. Even AS 3660 advises when a complete termite management system is installed in accordance with AS 3660.1-2000 for pre-construction termite work or 3660.2-2000 for post-construction termite work and the Australian Pesticides and Veterinary Medicines Authority (APVMA) product label directions are followed precisely, termites may still bridge the management system. However, if the labels directions are followed and the Standard adhered to, and bridging occurs, evidence of the termite ingress will normally be evident to the inspector. Therefore regular inspections in line with the recommendations in this report are essential in addition to any suitable termite management system you install.

You should read and understand the following important information. It will help explain what is involved in a timber pest inspection, the difficulties faced by a timber pest inspector and why it is not possible to guarantee that a property is free of timber pests. It also details important information about what you can do to help protect your property from timber pests. This information forms an integral part of the report.

CONCRETE SLAB HOMES: Homes constructed on concrete slabs pose special problems with respect to termite attack. If the edge of the slab is concealed by concrete paths, patios, pavers, garden beds, lawns, foliage, etc. then it is possible for termites to affect concealed entry into the property. They can then cause extensive damage to concealed framing timbers. Even the most experienced inspector may be unable to detect their presence due to concealment by wall linings. Only when the termites attack timbers in the roof void, which may in turn be concealed by insulation, can their presence be detected. Where termite damage is located in the roof it should be expected that concealed framing timbers will be extensively damaged. With a concrete slab home it is imperative that you expose the edge of the slab and ensure that foliage and garden beds do not cover the slab edge. Weep holes must be kept free of obstructions. It is strongly recommended that you have a termite inspection in accordance with AS 3660.2 carried out as recommended in this report.

SUBTERRANEAN TERMITES: No property is safe from termites! Termites are the cause of the greatest economic losses of timber in service in Australia. Independent data compiled by State Forestry shows 1 in every 5 homes is attacked by termites at some stage in its life. More recent data would indicate that this is now as high as 1 in every 3. Australia's subterranean termite species (white ants) are the most destructive timber pests in the world. In fact it can take "as little as 3 months for a termite colony to severely damage almost all the timber in a home".

How Termites Attack your Home. The most destructive species live in large underground nests containing several million timber destroying insects. The problem arises when a nest matures near your home. Your home provides natural shelter and a food source for the termites. The gallery system of a single colony may exploit food sources over as much as one hectare, with individual galleries extending up to 50 metres to enter your home, where there is a smorgasbord of timber to feast upon. Even concrete slabs do not act as a barrier; they can penetrate through cracks in the slab to gain access to your home. They even build mud tubes to gain access to above ground timbers. In rare cases termites may create their nest in the cavity wall of the property without making

ground contact. In these cases it may be impossible to determine their presence until extensive timber damage occurs.

Termite Damage. Once in contact with the timber they excavate it often leaving only a thin veneer on the outside. If left undiscovered the economic species can cause many thousands of dollars damage and cost two to five thousand dollars (or more) to treat.

Subterranean Termite Ecology. These termites are social insects usually living in underground nests. Nests may be in trees or in rare instances they may be in above ground areas within the property. They tunnel underground to enter the building and then remain hidden within the timber making it very difficult to locate them. Where timbers are concealed, as in most modern homes, it makes it even more difficult to locate their presence. Especially if gardens have been built up around the home and termite barriers are either not in place or poorly maintained. Termites form nests in all sorts of locations and they are usually not visible. There may be more than one nest on a property. The diet of termites in the natural environment is the various hardwood and softwood species growing throughout Australia. These same timbers are used in buildings. Worker termites move out from their underground nest into surrounding areas where they obtain food and return to nurture the other casts of termites within the nest. Termites are extremely sensitive to temperature, humidity and light and hence cannot move over ground like most insects. They travel in mud encrusted tunnels to the source of food. Detection of termites is usually by locating these mud tunnels rising from the ground into the affected structure. This takes an expert eye.

Termite barriers protect a building by forcing termites to show themselves. Termites can build mud tunnels around termite barriers to reach the timber above. The presence of termite tracks or leads does not necessarily mean that termites have entered the timber though. A clear view of walls and piers and easy access to the sub-floor means that detection should be fairly easy. However many styles of construction do not lend themselves to ready detection of termites. The design of some properties is such that they make the detection by a pest inspector difficult, if not impossible. The tapping and probing of walls and internal timbers is an adjunct or additional means of detection of termites but is not as reliable as locating tracks. The use of a moisture meter is a useful aid for determining the presence of termites concealed behind thin wall panels, but it only detects high levels of activity. Older damage that has dried out will not be recorded. It may also provide false readings. Termite tracks may be present in the ceiling space however some roofs of a low pitch and with the presence of sisalation, insulation, air conditioning ductwork and hot water services may prevent a full inspection of the timbers in these areas. Therefore since foolproof and absolute certain detection is not possible the use of protective barriers and regular inspections is a necessary step in protecting timbers from termite attack.

BORERS OF SEASONED TIMBERS: Borers are the larvae of various species of beetles. The adult beetles lay their eggs within the timber. The eggs hatch out into larvae (grubs) which bore through the timber and can cause significant structural damage. The larvae may reside totally concealed within the timber for a period of several years before passing into a dormant pupal stage. Within the pupal case they metamorphose (change) into the adult beetle which cuts a hole in the outer surface of the timber to emerge, mate and lay further eggs to continue the cycle. It is only through the presence of these emergence holes, and the frass formed when the beetles cut the exit holes that their presence can be detected. Where floors are covered by carpets, tiling, or other floor coverings and where no access to the underfloor area is available it is not possible to determine whether borers are present or not. This is particularly the case with the upper floors of a dwelling.

Borers of 'green' unseasoned timber may also be present. However these species will naturally die out as the timbers dry out in service. Whilst some emergence holes may occur in a new property it would be unusual for such a borer to cause structural damage, though the exit holes may be unsightly.

Anobium borer (furniture beetle) and Queensland pine borer. These beetles are responsible for instances of flooring collapse, often triggered by a heavy object being placed on the floor (or a person stepping on the affected area!) Pine timbers are favoured by this beetle and, while the sapwood is preferred, the heartwood is also sometimes attacked. Attack by this beetle is usually observed in timbers that have been in service for 10-20 years or more and mostly involves flooring

and timber wall panelling. The *frass* from the flight holes (faeces and chewed wood) is fine and gritty. Wood attacked by these borers is often honeycombed.

Lyc tus borer (powder post beetle). These borers only attack the sapwood of certain susceptible species of hardwood timber. Since it is a requirement that structural timbers contain no more than 25% *Lyc tus* susceptible sapwood these borers are not normally associated with structural damage. Replacement of affected timbers is not recommended and treatment is not approved. Where decorative timbers are affected the emergence holes may be considered unsightly in which case timber replacement is the only option. Powder post beetles mostly attack during the first 6-12 months of service life of timber. As only the sapwood is destroyed, larger dimensional timbers (such as rafters, bearers and joists) in a house are seldom weakened significantly to cause collapse. In small dimensional timbers (such as tiling and ceiling battens) the sapwood may be extensive, and its destruction may result in collapse. Replacement of these timbers is the only option available.

TIMBER DECAY FUNGI: The fruiting bodies of wood decay fungi vary in size, shape and colour. The type of fungi encountered by pest controllers usually reside in poorly ventilated subfloors, below wet areas of the home, exterior timbers and in areas that retain water in the soil. The durability and type of timbers are factors along with the temperature and environment. Destruction of affected timbers varies with the symptoms involved. Removal of the moisture source usually alleviates the problem. Fungal decay is attractive to termites and if the problem is not rectified it may well lead to future termite attack.

TERMS & LIMITATIONS:

Important Information *Any person who relies upon the contents of this report does so acknowledging that the following clauses which define the Scope and Limitations of the inspection form an integral part of the report.*

- 1. THIS IS A VISUAL INSPECTION ONLY** in accord with the requirements of AS 4349.3 Inspection of buildings Part 3: Timber pest inspections. Visual inspection was limited to those areas and sections of the property to which reasonable access (See Definition) was both available and permitted on the date of Inspection. The inspection **DID NOT** include breaking apart, dismantling, removing or moving objects including, but not limited to, foliage, mouldings, roof insulation/sisalation, floor or wall coverings, sidings, ceilings, floors, furnishings, appliances or personal possessions. The inspector **CANNOT** see inside walls, between floors, inside skillion roofing, inside the eaves, behind stored goods in cupboards, in other areas that are concealed or obstructed. The inspector **DID NOT** dig, gouge, force or perform any other invasive procedures. An invasive inspection will not be performed unless a separate contract is entered into. In an occupied property it must be understood that furnishings or household items may be concealing evidence of Timber Pests which may only be revealed when the items are moved or removed. In the case of Strata type properties only the interior of the unit is inspected.
- 2. SCOPE OF REPORT:** This Report is confined to reporting on the discovery, or non-discovery, of infestation and/or damage caused by subterranean and dampwood termites (white ants), borers of seasoned timber and wood decay fungi (hereinafter referred to as "Timber Pests"), present on the date of the Inspection. The Inspection did not cover any other pests and this Report does not comment on them. Dry wood termites (Family: KALOTERMITIDAE) and European House Borer (*Hylotrupes bujulus Linnaeus*) were excluded from the Inspection, but have been reported on if, in the course of the Inspection, any visual evidence of infestation happened to be found. If *Cryptotermes brevis* (West Indian Dry Wood Termite) or *Hylotrupes bujulus Linnaeus* are discovered we are required by law to notify Government Authorities. If reported a special purpose report may be necessary.

3. **LIMITATIONS:** Nothing contained in the Report implies that any inaccessible or partly inaccessible areas or sections of the property being inspected by the Inspector on the date of the Inspection were not, or have not been, infested by Timber Pests. Accordingly this Report is not a guarantee that an infestation and/or damage does not exist in any inaccessible or partly inaccessible areas or sections of the property. Nor is it a guarantee that a future infestation of Timber Pests will not occur or be found.
4. **DETERMINING EXTENT OF DAMAGE:** The Report is NOT a structural damage Report. We claim no expertise in building and any observations or recommendations about timber damage should not be taken as expert opinion and CANNOT be relied upon. The Report will not state the full extent of any timber pest damage. The Report will state timber damage found as 'slight', 'moderate', 'moderate to extensive' or 'extensive'. This information is not the opinion of an expert. If any evidence of Timber Pest activity and/or damage resulting from Timber Pest activity is reported either in the structure(s) or the grounds of the property, then you must assume that there may be concealed structural damage within the building(s). This concealed damage may only be found when wall linings, cladding or insulation is removed to reveal previously concealed timbers. An invasive Timber Pest Inspection (for which a separate contract is required) is strongly recommended and you should arrange for a qualified person such as a Builder, Engineer, or Architect to carry out a structural inspection and to determine the full extent of the damage and the extent of repairs that may be required. You agree that neither we nor the individual conducting the Inspection is responsible or liable for the repair of any damage whether disclosed by the report or not.
5. **MOULD:** Mildew and non-wood decay fungi is commonly known as Mould and is not considered a Timber Pest. However, Mould and their spores may cause health problems or allergic reactions such as asthma and dermatitis in some people. No inspection for Mould was carried out at the property and no report on the presence or absence of Mould is provided. Should any evidence of Mould happen to be noticed during the inspection, it will be noted in the Other Information (5.11) section of this report. If Mould is noted as present within the property and you are concerned as to the possible health risk resulting from its presence then you should seek advice from your local Council, State or Commonwealth Government Health Department or a qualified expert such as an Industry Hygienist.
6. **DISCLAIMER OF LIABILITY:** No liability shall be accepted on account of failure of the Report to notify any Termite activity and/or damage present at or prior to the date of the Report in any areas(s) or section(s) of the subject property physically inaccessible for inspection, or to which access for Inspection is denied by or to the Licensed Inspector (including but not limited to any area(s) or section(s) so specified by the Report).
7. **DISCLAIMER OF LIABILITY TO THIRD PARTIES:** Compensation will only be payable for losses arising in contract or tort sustained by the Client named on the front of this report. Any third party acting or relying on this Report, in whole or in part, does so entirely at their own risk. However, if ordered by a Real Estate Agent or a Vendor for the purpose of auctioning a property then the Inspection Report may be ordered up to seven (7) days prior to the auction, copies may be given out prior to the auction and the Report will have a life of 14 days during which time it may be transferred to the purchaser. Providing the purchaser agrees to the terms of this agreement then they may rely on the report subject to the terms and conditions of this agreement and the Report itself.

Note: *In the ACT under the Civil Law (Sale of Residential Property) Act 2003 and Regulations the report resulting from this inspection may be passed to the purchaser as part of the sale process providing it is carried out not more than three months prior to listing and is not more than six months old.*

8. COMPLAINTS PROCEDURE:

In the event of any dispute or claim arising out of, or relating to the Inspection or the Report, You must notify us as soon as possible of the dispute or claim by email, fax or mail. You must allow us (which includes persons nominated by us) to visit the property (which visit must occur within twenty eight (28) days of your notification to us) and give us full access in order that we may fully investigate the complaint. You will be provided with a written response to your dispute or claim within twenty eight (28) days of the date of the inspection.

If you are not satisfied with our response you must within twenty one (21) days of your receipt of our written response refer the matter to a Mediator nominated by us from the Institute of Arbitrators and Mediators of Australia. The cost of the Mediator will be borne equally by both parties or as agreed as part of the mediated settlement.

Should the dispute or claim not be resolved by mediation then the dispute or claim will proceed to arbitration. The Institute of Arbitrators and Mediators of Australia will appoint an Arbitrator who will hear and resolve the dispute. The arbitration, subject to any directions of Arbitrator, will proceed in the following manner:

- a) The parties must submit all written submissions and evidence to the Arbitrator within twenty one (21) days of the appointment of the Arbitrator; and
- b) The arbitration will be held within twenty one (21) days of the Arbitrator receiving the written submissions.

The Arbitrator will make a decision determining the dispute or claim within twenty one (21) of the final day of the arbitration. The Arbitrator may, as part of his determination, determine what costs, if any, each of the parties are to pay and the time by which the parties must be paid any settlement or costs.

The decision of the Arbitrator is final and binding on both parties. Should the Arbitrator order either party to pay any settlement amount or costs to the other party but not specify a time for payment then such payment shall be made within twenty one (21) days of the order.

In the event You do not comply with the above Complaints Procedure and commence litigation against Us then You agree to fully indemnify Us against any awards, costs, legal fees and expenses incurred by Us in having your litigation set aside or adjourned to permit the foregoing Complaints Procedure to complete.